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**BEFORE THE PENNSYLVANIA PUBLIC UTILITY
COMMISSION**

Peoples Natural Gas Company LLC

Docket No. R-2026-3060855

Volume II

Exhibit 5

PEOPLES NATURAL GAS COMPANY LLC

PITTSBURGH, PENNSYLVANIA

2025 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION
ACCRUALS RELATED TO GAS PLANT
AS OF NOVEMBER 30, 2025

Prepared by:

**GANNETT FLEMING VALUATION
AND RATE CONSULTANTS, LLC**

PEOPLES NATURAL GAS COMPANY LLC

Pittsburgh, Pennsylvania

2025 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION ACCRUALS
RELATED TO GAS PLANT
AS OF NOVEMBER 30, 2025

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC

Mechanicsburg, Pennsylvania

Gannett Fleming Valuation
and Rate Consultants, LLC
(a **GFT** Company)

300 Sterling Parkway, Suite 200
Mechanicsburg, PA 17050
717.763.7211

March 9, 2026

Peoples Natural Gas Company, LLC
375 North Shore Drive, Suite 600
Pittsburgh, PA 15212-5322

Ladies and Gentlemen:

Pursuant to your request, we have determined the annual depreciation accruals applicable to gas plant as of November 30, 2025. Summaries of the original cost, annual accruals and the book depreciation reserve are presented in Tables 1 and 2, beginning on page I-3 of the attached report.

A description of the methods and procedures upon which the study was based is set forth in a companion report, "2026 Depreciation Study - Calculated Annual Depreciation Accruals Related to Gas Plant as of November 30, 2026".

Respectfully submitted,

GANNETT FLEMING VALUATION
AND RATE CONSULTANTS, LLC



JOHN J. SPANOS
President



MELISSA M. HOWARD
Project Manager

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PART I. RESULTS OF STUDY

**PEOPLES NATURAL GAS COMPANY LLC
DEPRECIATION STUDY**

PART I. RESULTS OF STUDY

DESCRIPTION OF SUMMARY TABULATIONS

The results of the depreciation study are summarized in Table 1, which sets forth the calculated annual depreciation related to Gas Plant in Service as of November 30, 2025. Table 2 presents the experienced gross salvage and cost of removal associated with regular retirements during the five-year period, 2021-2025 and the annual amortization of net salvage.

DETAILED TABULATIONS OF DEPRECIATION CALCULATIONS

The supporting data for the depreciation calculations are presented in account sequence in the section beginning on II-6. The original cost, calculated accrued depreciation, allocated book reserve, future accruals, remaining life and annual accrual are shown for each vintage of each account or subaccount. The amounts of regular retirements, gross salvage and cost of removal are set forth by account for the years 2021 through 2025, beginning on III-2 through III-4.

PEOPLES NATURAL GAS COMPANY LLC

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVE, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF NOVEMBER 30, 2025

DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF NOVEMBER 30, 2025 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED		COMPOSITE REMAINING LIFE (8)=(5)/(6)
					ANNUAL ACCRUAL AMOUNT (6)	RATE (7)=(6)/(3)	
DEPRECIABLE GAS PLANT							
INTANGIBLE PLANT							
303.00	MISCELLANEOUS INTANGIBLE PLANT						
	CIAC	7,361,230.65	2,147,531	5,213,700	182,287	2.48	28.6
	OTHER	76,175,969.94	35,489,755	40,686,215	14,772,627	19.39	2.8
	MAJOR	12,990,356.19	935,970	12,054,386	1,279,822	9.85	9.4
	SAP	20,065,515.44	19,062,562	1,002,953	126,891	0.63	7.9
	TOTAL MISCELLANEOUS INTANGIBLE PLANT	116,593,072.22	57,635,818	58,957,254	16,361,627	14.03	
PRODUCTION PLANT							
325.01	PRODUCING LANDS	139,440.21	82,368	57,073	1,067	0.77	53.5
325.02	PRODUCING LEASEHOLDS	14,480.68	10,016	4,465	190	1.31	23.5
325.03	GAS RIGHTS	20,984.28	13,379	7,605	227	1.08	33.5
325.04	RIGHTS OF WAY	2,051,366.10	1,020,182	1,031,184	22,251	1.08	46.3
327.00	FIELD COMPRESSOR STATION EQUIPMENT	12,308,841.37	5,261,525	7,047,317	249,139	2.02	28.3
328.00	FIELD MEASURING AND REGULATING STATION STRUCTURES	62,777.57	51,967	10,811	618	0.98	17.5
329.00	OTHER STRUCTURES	1,926,213.73	1,023,500	902,713	23,858	1.24	37.8
330.00	PRODUCING GAS WELLS - WELL CONSTRUCTION	9,214.49	10,461	(1,247)	0	-	-
331.00	PRODUCING GAS WELLS - WELL EQUIPMENT	2,960.52	2,531	429	250	8.44	1.7
332.00	FIELD LINES	81,350,164.33	32,189,505	49,160,659	1,295,932	1.59	37.9
333.00	FIELD COMPRESSOR STATION EQUIPMENT	48,788,216.36	19,494,140	29,294,076	1,542,695	3.16	19.0
334.00	FIELD MEASURING AND REGULATING STATION EQUIPMENT	3,490,666.48	2,981,049	509,617	51,399	1.47	9.9
337.00	OTHER EQUIPMENT	66,192.40	42,544	23,648	2,458	3.71	9.6
	TOTAL PRODUCTION PLANT	150,231,518.52	62,183,167	88,048,350	3,190,084	2.12	
UNDERGROUND STORAGE PLANT							
350.11	LAND - GAS	16,823.84	11,022	5,802	463	2.75	12.5
350.21	RIGHTS OF WAY	138,528.02	39,258	99,270	1,872	1.35	53.0
351.00	STRUCTURES AND IMPROVEMENTS	2,400,554.19	794,763	1,605,791	50,530	2.10	31.8
352.01	WELLS - CONSTRUCTION	1,330,068.80	(1,192,199)	2,522,268	102,949	7.74	24.5
352.02	WELLS - EQUIPMENT	707,345.74	97,073	610,273	25,720	3.64	23.7
352.11	LEASEHOLDS	161,936.70	161,937	0	0	-	-
352.12	STORAGE RIGHTS	413,405.93	234,435	178,971	5,074	1.23	35.3
352.21	RESERVOIRS	433,138.50	196,321	236,818	9,640	2.23	24.6
352.31	NON-RECOVERABLE NATURAL GAS	205,250.77	205,251	0	0	-	-
353.00	LINES	3,688,378.84	2,195,845	1,492,534	51,724	1.40	28.9
354.00	COMPRESSOR STATION EQUIPMENT	15,921,351.22	5,046,330	10,875,021	415,477	2.61	26.2
355.00	MEASURING AND REGULATING STATION EQUIPMENT	1,591,237.23	592,651	998,586	23,983	1.51	41.6
357.00	OTHER EQUIPMENT	30,183.87	30,184	0	0	-	-
	TOTAL UNDERGROUND STORAGE PLANT	27,038,203.65	8,412,869	18,625,334	687,432	2.54	

PEOPLES NATURAL GAS COMPANY LLC

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF NOVEMBER 30, 2025

	DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF NOVEMBER 30, 2025 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED ANNUAL ACCRUAL RATE (7)=(6)/(3)		COMPOSITE REMAINING LIFE (8)=(5)/(6)
						AMOUNT (6)		
TRANSMISSION PLANT								
365.02	RIGHTS OF WAY	80-R4	7,129,174.85	2,901,166	4,228,009	74,210	1.04	57.0
366.01	STRUCTURES AND IMPROVEMENTS - COMPRESSOR STATION	60-R3	2,163,704.78	1,196,003	967,702	26,913	1.24	36.0
366.02	STRUCTURES AND IMPROVEMENTS - MEASURING AND REGULATING	55-R2.5	1,729,039.50	1,100,364	628,675	17,578	1.02	35.8
366.03	STRUCTURES AND IMPROVEMENTS - OTHER	45-R2	94,788.96	80,242	14,547	714	0.75	20.4
367.00	MAINS	80-R2.5	319,649,866.97	99,703,602	219,946,265	4,079,917	1.28	53.9
368.00	COMPRESSOR STATION EQUIPMENT	42-S0.5	19,695,331.10	9,247,729	10,447,602	446,094	2.26	23.4
369.00	MEASURING AND REGULATING STATION EQUIPMENT	48-R1.5	46,159,736.03	17,589,813	28,569,923	980,802	2.12	29.1
371.00	OTHER EQUIPMENT	35-R1	2,650,785.29	1,275,946	1,374,839	66,056	2.49	20.8
TOTAL TRANSMISSION PLANT			399,272,427.48	133,094,866	266,177,562	5,692,284	1.43	
DISTRIBUTION PLANT								
374.02	RIGHTS OF WAY	75-R4	11,761,725.08	3,308,177	8,453,548	155,689	1.32	54.3
375.00	STRUCTURES AND IMPROVEMENTS MEASURING AND REGULATING OTHER	65-R2	4,109,993.12	4,066,011	43,983	970	0.02	45.3
	MAJOR STRUCTURES	80-R1.5 *	24,813,854.42	16,030,940	8,782,914	1,315,814	5.30	6.7
	MINOR STRUCTURES	65-R2	1,104,892.66	629,896	474,997	12,271	1.11	38.7
TOTAL STRUCTURES AND IMPROVEMENTS			30,028,740.20	20,726,847	9,301,894	1,329,055	4.43	
376.00	MAINS							
	LOW PRESSURE	72-R1.5	1,827,171,621.32	317,772,699	1,509,398,922	34,205,265	1.87	44.1
	REGULAR PRESSURE	72-R1.5	1,614,677,492.44	283,878,765	1,330,798,727	30,692,277	1.90	43.4
TOTAL MAINS			3,441,849,113.76	601,651,464	2,840,197,649	64,897,542	1.89	
378.00	MEASURING AND REGULATING STATION EQUIPMENT - GENERAL	55-R1.5	126,432,635.05	37,347,800	89,084,835	2,692,756	2.13	33.1
380.00	SERVICES	55-R2	923,796,287.48	320,112,789	603,683,499	17,874,301	1.93	33.8
381.00	METERS	32-S0.5	161,988,768.96	49,817,170	112,171,599	5,818,487	3.59	19.3
381.20	METERS - INTELLIS	20-S2	4,900,521.88	145,635	4,754,887	284,953	5.81	16.7
382.00	METER INSTALLATIONS	55-R2	77,746,128.10	29,132,944	48,613,184	1,513,467	1.95	32.1
385.00	INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT	50-R0.5	13,385,526.32	6,232,637	7,152,890	255,906	1.91	28.0
386.00	OTHER PROPERTY ON CUSTOMER PREMISES	20-S4	14,644,532.28	14,644,532	0	0	-	-
387.00	OTHER EQUIPMENT	26-R2.5	16,485,526.11	4,288,912	12,196,614	729,797	4.43	16.7
TOTAL DISTRIBUTION PLANT			4,823,019,505.22	1,087,408,907	3,735,610,599	95,551,953	1.98	
GENERAL PLANT								
389.02	LAND RIGHTS AND RIGHTS OF WAY	60-R3	52,996.00	39,415	13,581	509	0.96	26.7
390.00	STRUCTURES AND IMPROVEMENTS OWNED	55-R1.5	52,392,830.51	5,886,063	46,506,768	1,406,772	2.69	33.1
	LEASED - NORTH SHORE	75-R0.5 *	8,112,867.83	6,470,072	1,642,796	525,454	6.48	3.1
TOTAL STRUCTURES AND IMPROVEMENTS			60,505,698.34	12,356,135	48,149,564	1,932,226	3.19	

PEOPLES NATURAL GAS COMPANY LLC

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF NOVEMBER 30, 2025

	DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF NOVEMBER 30, 2025 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED		COMPOSITE REMAINING LIFE (8)=(5)/(6)
						ANNUAL ACCRUAL AMOUNT (6)	RATE (7)=(6)/(3)	
391.01	OFFICE FURNITURE AND EQUIPMENT - FURNITURE OFFICE FURNITURE AND EQUIPMENT - COMPUTERS OFFICE FURNITURE AND EQUIPMENT - EQUIPMENT	20-SQ	2,788,315.93	2,062,545	725,771	77,247	2.77	9.4
391.02		5-SQ	8,851,344.78	9,084,860	(233,515)	0	-	-
391.03		15-SQ	134,732.04	21,046	113,686	15,919	11.82	7.1
392.00	TRANSPORTATION EQUIPMENT							
	TRUCKS	10-L2.5	80,359,196.86	26,710,565	53,648,632	10,471,774	13.03	5.1
	TRAILERS	15-L2	5,596,703.95	116,746	5,479,958	589,447	10.53	9.3
	TOTAL TRANSPORTATION EQUIPMENT		85,955,900.81	26,827,311	59,128,590	11,061,221	12.87	
393.00	STORES EQUIPMENT	25-SQ	456.77	(1,422)	1,879	196	42.91	9.6
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	25-SQ	7,497,931.21	4,902,349	2,595,582	204,268	2.72	12.7
394.01	DUAL FUEL STATIONS	15-SQ	398,116.81	317,922	80,195	10,580	2.66	7.6
396.00	POWER OPERATED EQUIPMENT	15-L2	17,340,827.91	8,517,071	8,823,756	1,162,790	6.71	7.6
397.02	COMMUNICATION EQUIPMENT - TELEPHONE	15-SQ	19,674,407.48	11,040,592	8,633,816	1,269,585	6.45	6.8
397.03	COMMUNICATION EQUIPMENT - MICROWAVE	18-SQ	16,949,828.93	8,991,765	7,958,064	828,808	4.89	9.6
397.10	COMMUNICATION EQUIPMENT - STRUCTURES	25-SQ	28,654.98	(1,835)	30,490	3,562	12.43	8.6
397.20	COMMUNICATION EQUIPMENT - RADIO	15-SQ	1,988,426.51	1,250,166	738,261	133,451	6.71	5.5
398.00	MISCELLANEOUS EQUIPMENT	15-SQ	54,885.82	46,626	8,260	1,058	1.93	7.8
	TOTAL GENERAL PLANT		222,222,524.32	85,454,545	136,767,980	16,701,420	7.52	
	AMORTIZATION OF NET SALVAGE					7,590,331		
	TOTAL DEPRECIABLE GAS PLANT		5,738,377,251.41	1,434,190,172	4,304,187,079	145,775,131	2.54	
	NONDEPRECIABLE GAS PLANT							
301.00	ORGANIZATION		177,885.87					
302.00	FRANCHISES AND CONSENTS		71,371.20					
325.51	OTHER LAND AND LAND RIGHTS		47,094.57	2,031				
350.10	LAND AND LAND RIGHTS - LAND		46,820.26	1,382				
365.10	LAND AND LAND RIGHTS - LAND		381,342.73					
374.01	LAND AND LAND RIGHTS - LAND		1,061,018.46	30,228				
389.01	LAND AND LAND RIGHTS - LAND		424,151.66					
	TOTAL NONDEPRECIABLE GAS PLANT		2,209,684.75	33,641				
	TOTAL GAS PLANT		5,740,586,936.16	1,434,223,813				

* LIFESPAN PROCEDURE IS USED. SURVIVOR CURVE SHOWN IS INTERIM CURVE.

NOTES:

1) NEW ASSETS IN ACCOUNT 392.00 TRANSPORTATION EQUIPMENT - AUTOMOBILES, WILL USE A 22.12% RATE BASED ON A 6-L2.5 CURVE.

PEOPLES NATURAL GAS COMPANY LLC

TABLE 2. AMORTIZATION OF EXPERIENCED NET SALVAGE

ACCOUNT (1)	2021		2022		2023		2024		2025		NET SALVAGE (12)	SALVAGE ACCRUAL (13)=(12)/5
	COST OF REMOVAL (2)	GROSS SALVAGE (3)	COST OF REMOVAL (4)	GROSS SALVAGE (5)	COST OF REMOVAL (6)	GROSS SALVAGE (7)	COST OF REMOVAL (8)	GROSS SALVAGE (9)	COST OF REMOVAL (10)	GROSS SALVAGE (11)		
											=	
332.00	283,431	5,356	1,324		2,544,899		12,327		4,320		(2,840,946)	(568,189)
333.00	588,259		128,575								(726,834)	(145,367)
334.00	193,592										(193,592)	(38,718)
351.00							178,852		471,802		(650,654)	(130,131)
352.00	1,982				181,890		284,716		2,280,536		(2,749,124)	(549,825)
367.00	215,555			6,939	1,774		35,301		57,068		(302,759)	(60,552)
369.00							378,692		1,824,637		(2,203,329)	(440,666)
375.00							671		0		(671)	(134)
376.00	3,204,911	29,218	262,145	(327)	8,652,109		6,640,588		4,598,591		(23,329,452)	(4,665,890)
378.00	167,996				4,928		94,523		(28,955)		(238,492)	(47,698)
380.00	3,085,110				743,999		1,122,598		11,295,684		(16,247,391)	(3,249,478)
382.00	215,103		5,184		1,178				(79,096)		(142,369)	(28,474)
392.00		1,325,742		5,644				8,391,000	(84,065)	1,864,607	11,671,057	2,334,211
397.02		2,900									2,900	580
TOTAL	7,965,939	1,363,215	397,228	12,255	12,130,777	0	8,748,267	8,391,000	20,340,522	1,864,607	(37,951,655)	(7,590,331)

**PART II. DETAILED DEPRECIATION
CALCULATIONS**

CUMULATIVE DEPRECIATED ORIGINAL COST

1874	5.00	5.00		
1875	9,927.00	9,927.00		
1876	956.00	956.00		
1877	121.00	121.00		
1881	12.00	12.00		
1885	1,789.00	1,547.00	242.00	242.00
1886	5,195.00	5,195.00		242.00
1887	13,637.00	13,637.00		242.00
1888	13,667.00	12,298.00	1,369.00	1,611.00
1889	21,239.00	18,311.00	2,928.00	4,539.00
1890	47,265.00	47,257.00	8.00	4,547.00
1891	42,013.00	36,873.00	5,140.00	9,687.00
1892	14,915.00	14,915.00		9,687.00
1893	20,635.00	20,628.00	7.00	9,694.00
1894	25,447.00	25,285.00	162.00	9,856.00
1895	8,871.00	8,871.00		9,856.00
1896	29,479.00	28,069.00	1,410.00	11,266.00
1897	23,865.00	23,556.00	309.00	11,575.00
1898	32,987.00	32,968.00	19.00	11,594.00
1899	81,904.00	80,161.00	1,743.00	13,337.00
1900	737,150.00	696,919.00	40,231.00	53,568.00
1901	226,305.00	223,078.00	3,227.00	56,795.00
1902	348,734.00	338,572.00	10,162.00	66,957.00
1903	239,557.00	232,278.00	7,279.00	74,236.00
1904	130,888.00	127,208.00	3,680.00	77,916.00
1905	264,654.00	259,448.00	5,206.00	83,122.00
1906	180,220.00	175,530.00	4,690.00	87,812.00
1907	173,349.00	172,501.00	848.00	88,660.00
1908	199,973.00	188,305.00	11,668.00	100,328.00
1909	101,211.00	98,350.00	2,861.00	103,189.00
1910	80,330.00	78,429.00	1,901.00	105,090.00
1911	85,338.00	81,904.00	3,434.00	108,524.00
1912	85,547.00	83,998.00	1,549.00	110,073.00
1913	237,412.00	235,405.00	2,007.00	112,080.00
1914	281,869.00	279,574.00	2,295.00	114,375.00
1915	119,973.00	115,309.00	4,664.00	119,039.00
1916	117,411.00	108,002.00	9,409.00	128,448.00
1917	172,154.00	168,420.00	3,734.00	132,182.00
1918	90,103.00	87,455.00	2,648.00	134,830.00
1919	92,546.00	90,833.00	1,713.00	136,543.00
1920	53,927.00	53,304.00	623.00	137,166.00
1921	123,585.00	114,570.00	9,015.00	146,181.00
1922	187,586.00	183,231.00	4,355.00	150,536.00
1923	215,150.00	205,710.00	9,440.00	159,976.00
1924	351,720.00	320,312.00	31,408.00	191,384.00
1925	479,385.00	450,896.00	28,489.00	219,873.00
1926	406,810.00	390,455.00	16,355.00	236,228.00
1927	363,302.00	340,771.00	22,531.00	258,759.00
1928	281,434.00	257,898.00	23,536.00	282,295.00
1929	301,489.00	274,454.00	27,035.00	309,330.00
1930	325,617.00	295,723.00	29,894.00	339,224.00
1931	261,233.00	237,540.00	23,693.00	362,917.00
1932	179,572.00	163,496.00	16,076.00	378,993.00
1933	112,393.00	102,471.00	9,922.00	388,915.00
1934	82,154.00	75,588.00	6,566.00	395,481.00
1935	156,817.00	145,161.00	11,656.00	407,137.00
1936	177,463.00	164,519.00	12,944.00	420,081.00

1937	410,011.00	361,623.00	48,388.00	468,469.00	
1938	350,592.00	311,728.00	38,864.00	507,333.00	
1939	483,284.00	435,358.00	47,926.00	555,259.00	
1940	503,658.00	425,443.00	78,215.00	633,474.00	
1941	799,659.00	653,361.00	146,298.00	779,772.00	
1942	446,224.00	365,048.00	81,176.00	860,948.00	
1943	302,603.00	240,777.00	61,826.00	922,774.00	
1944	426,108.00	369,756.00	56,352.00	979,126.00	
1945	270,373.00	222,414.00	47,959.00	1,027,085.00	
1946	525,096.00	400,980.00	124,116.00	1,151,201.00	
1947	664,890.00	468,857.00	196,033.00	1,347,234.00	
1948	1,343,729.00	1,100,069.00	243,660.00	1,590,894.00	
1949	2,357,419.00	2,010,291.00	347,128.00	1,938,022.00	
1950	2,921,747.00	2,352,745.00	569,002.00	2,507,024.00	0.10
1951	2,522,537.00	1,885,704.00	636,833.00	3,143,857.00	0.10
1952	3,804,570.00	3,077,681.00	726,889.00	3,870,746.00	0.10
1953	3,439,482.00	2,685,029.00	754,453.00	4,625,199.00	0.10
1954	2,398,139.00	1,920,972.00	477,167.00	5,102,366.00	0.10
1955	3,669,843.00	2,813,909.00	855,934.00	5,958,300.00	0.10
1956	3,675,564.00	2,800,580.00	874,984.00	6,833,284.00	0.20
1957	4,841,537.00	3,651,995.00	1,189,542.00	8,022,826.00	0.20
1958	5,558,445.00	3,982,787.00	1,575,658.00	9,598,484.00	0.20
1959	7,424,883.00	5,246,063.00	2,178,820.00	11,777,304.00	0.30
1960	5,228,927.00	3,608,831.00	1,620,096.00	13,397,400.00	0.30
1961	7,615,030.00	5,279,905.00	2,335,125.00	15,732,525.00	0.40
1962	6,553,646.00	4,519,390.00	2,034,256.00	17,766,781.00	0.40
1963	7,681,481.00	5,455,670.00	2,225,811.00	19,992,592.00	0.50
1964	7,841,529.00	5,456,465.00	2,385,064.00	22,377,656.00	0.50
1965	7,385,899.00	4,900,135.00	2,485,764.00	24,863,420.00	0.60
1966	9,121,674.00	6,033,670.00	3,088,004.00	27,951,424.00	0.60
1967	8,877,841.00	5,578,446.00	3,299,395.00	31,250,819.00	0.70
1968	10,456,851.00	6,654,337.00	3,802,514.00	35,053,333.00	0.80
1969	9,743,875.00	6,159,373.00	3,584,502.00	38,637,835.00	0.90
1970	8,359,962.00	5,342,721.00	3,017,241.00	41,655,076.00	1.00
1971	11,468,868.00	7,119,727.00	4,349,141.00	46,004,217.00	1.10
1972	16,747,637.00	10,103,391.00	6,644,246.00	52,648,463.00	1.20
1973	17,482,611.00	10,242,733.00	7,239,878.00	59,888,341.00	1.40
1974	16,255,249.00	9,689,906.00	6,565,343.00	66,453,684.00	1.50
1975	11,225,164.00	6,951,235.00	4,273,929.00	70,727,613.00	1.60
1976	10,709,511.00	6,696,724.00	4,012,787.00	74,740,400.00	1.70
1977	16,767,324.00	9,871,100.00	6,896,224.00	81,636,624.00	1.90
1978	23,169,819.00	14,884,153.00	8,285,666.00	89,922,290.00	2.10
1979	23,191,274.00	13,296,653.00	9,894,621.00	99,816,911.00	2.30
1980	25,837,484.00	14,234,543.00	11,602,941.00	111,419,852.00	2.60
1981	38,492,355.00	21,166,697.00	17,325,658.00	128,745,510.00	3.00
1982	30,293,376.00	16,922,066.00	13,371,310.00	142,116,820.00	3.30
1983	21,177,508.00	13,679,128.00	7,498,380.00	149,615,200.00	3.50
1984	33,566,174.00	21,578,107.00	11,988,067.00	161,603,267.00	3.80
1985	43,737,200.00	26,556,596.00	17,180,604.00	178,783,871.00	4.20
1986	29,914,258.00	17,584,237.00	12,330,021.00	191,113,892.00	4.40
1987	51,724,809.00	30,880,345.00	20,844,464.00	211,958,356.00	4.90
1988	35,699,366.00	20,956,078.00	14,743,288.00	226,701,644.00	5.30
1989	36,156,117.00	19,981,778.00	16,174,339.00	242,875,983.00	5.60
1990	51,260,124.00	28,634,360.00	22,625,764.00	265,501,747.00	6.20
1991	44,190,820.00	23,968,754.00	20,222,066.00	285,723,813.00	6.60
1992	53,445,008.00	28,821,343.00	24,623,665.00	310,347,478.00	7.20
1993	42,612,351.00	22,728,455.00	19,883,896.00	330,231,374.00	7.70

1994	45,693,412.00	24,048,385.00	21,645,027.00	351,876,401.00	8.20
1995	45,781,409.00	23,263,573.00	22,517,836.00	374,394,237.00	8.70
1996	37,205,536.00	18,548,288.00	18,657,248.00	393,051,485.00	9.10
1997	49,544,439.00	24,718,861.00	24,825,578.00	417,877,063.00	9.70
1998	34,850,806.00	16,385,588.00	18,465,218.00	436,342,281.00	10.10
1999	40,364,663.00	18,793,655.00	21,571,008.00	457,913,289.00	10.60
2000	32,501,209.00	14,315,412.00	18,185,797.00	476,099,086.00	11.10
2001	53,499,239.00	23,481,214.00	30,018,025.00	506,117,111.00	11.80
2002	67,544,481.00	29,160,346.00	38,384,135.00	544,501,246.00	12.70
2003	61,365,567.00	25,074,282.00	36,291,285.00	580,792,531.00	13.50
2004	70,714,059.00	27,931,103.00	42,782,956.00	623,575,487.00	14.50
2005	97,698,399.00	46,765,299.00	50,933,100.00	674,508,587.00	15.70
2006	75,949,895.00	28,307,308.00	47,642,587.00	722,151,174.00	16.80
2007	70,114,144.00	25,724,736.00	44,389,408.00	766,540,582.00	17.80
2008	68,840,990.00	24,518,715.00	44,322,275.00	810,862,857.00	18.80
2009	74,287,406.00	26,383,813.00	47,903,593.00	858,766,450.00	20.00
2010	63,852,491.00	20,153,957.00	43,698,534.00	902,464,984.00	21.00
2011	85,654,278.00	29,184,727.00	56,469,551.00	958,934,535.00	22.30
2012	112,459,761.00	32,198,649.00	80,261,112.00	1,039,195,647.00	24.10
2013	85,648,701.00	22,539,914.00	63,108,787.00	1,102,304,434.00	25.60
2014	100,878,697.00	26,008,401.00	74,870,296.00	1,177,174,730.00	27.30
2015	108,222,099.00	31,824,130.00	76,397,969.00	1,253,572,699.00	29.10
2016	116,430,567.00	28,176,192.00	88,254,375.00	1,341,827,074.00	31.20
2017	196,674,412.00	45,116,607.00	151,557,805.00	1,493,384,879.00	34.70
2018	230,336,518.00	41,819,286.00	188,517,232.00	1,681,902,111.00	39.10
2019	239,332,085.00	40,699,704.00	198,632,381.00	1,880,534,492.00	43.70
2020	242,644,940.00	37,878,640.00	204,766,300.00	2,085,300,792.00	48.40
2021	343,227,969.00	48,487,557.00	294,740,412.00	2,380,041,204.00	55.30
2022	388,494,223.00	37,810,893.00	350,683,330.00	2,730,724,534.00	63.40
2023	588,224,432.00	51,589,372.00	536,635,060.00	3,267,359,594.00	75.90
2024	581,699,729.00	28,777,305.00	552,922,424.00	3,820,282,018.00	88.80
2025	497,090,886.00	13,185,827.00	483,905,059.00	4,304,187,077.00	100.00
TOTAL	5,738,377,247.00	1,434,190,170.00	4,304,187,077.00		

UTILITY PLANT IN SERVICE

SURVIVOR CURVE.. 40-SQUARE
NET SALVAGE PERCENT: 0

2014	7,298,363.33	2,083,099	2,133,216	5,165,147	28.58	180,726
2016	59,000.00	13,890	14,224	44,776	30.58	1,464
2025	3,867.32	89	91	3,776	38.93	97
	7,361,230.65	2,097,078	2,147,531	5,213,700		182,287

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.60 2.48

SURVIVOR CURVE.. 5-SQUARE
NET SALVAGE PERCENT: 0

2012	484,963.83	484,964	484,964			
2013	76,365.82	76,366	76,366			
2016	495,422.41	495,422	495,422			
2017	4,424.91	4,425	4,425			
2018	549,367.57	549,368	549,368			
2020	2,499,337.13	2,499,337	2,499,337			
2021	7,175,044.02	6,337,932	5,986,810	1,188,234	1.00	1,188,234
2022	6,551,866.51	4,477,087	4,229,056	2,322,811	1.58	1,470,134
2023	30,044,845.21	14,521,575	13,717,079	16,327,766	2.58	6,328,591
2024	26,964,838.07	7,639,948	7,216,695	19,748,143	3.58	5,516,241
2025	1,329,494.46	243,736	230,233	1,099,261	4.08	269,427
	76,175,969.94	37,330,160	35,489,755	40,686,215		14,772,627

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 2.80 19.39

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2015	323,450.77	224,617	46,367	277,084	4.58	60,499
2016	317,010.95	199,013	41,081	275,930	5.58	49,450
2017	221,052.47	124,035	25,604	195,448	6.58	29,703
2019	3,789,607.75	1,621,118	334,641	3,454,967	8.58	402,677
2020	3,228,877.62	1,165,980	240,689	2,988,189	9.58	311,920
2021	2,016,264.18	593,669	122,549	1,893,715	10.58	178,990
2022	1,666,255.65	379,540	78,347	1,587,909	11.58	137,125
2023	1,370,168.29	220,748	45,568	1,324,600	12.58	105,294
2024	57,668.51	5,446	1,124	56,545	13.58	4,164
	12,990,356.19	4,534,166	935,970	12,054,386		1,279,822

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.40 9.85

SURVIVOR CURVE.. 10-SQUARE
NET SALVAGE PERCENT: 0

2012	784,769.59	784,770	784,770			
2013	158,350.06	158,350	158,350			
2014	361,463.08	361,463	361,463			
2015	6,644,881.61	6,644,882	6,644,882			
2016	2,499,401.24	2,353,611	2,499,401			
2017	352,340.09	296,554	352,340			
2019	4,064,054.56	2,607,782	4,064,055			
2020	339,643.17	183,975	339,643			
2021	1,335,325.04	589,773	1,335,325			
2022	663.57	227	664			
2023	2,878,695.86	695,694	2,228,536	650,160	7.58	85,773
2024	645,927.57	91,509	293,133	352,795	8.58	41,118
	20,065,515.44	14,768,590	19,062,562	1,002,953		126,891

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.90 0.63

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1938	2,365.49	2,161	2,365			
1954	662.55	550	663			
1966	474.91	345	475			
1983	5,657.27	3,264	5,657			
2008	130,279.99	31,997	73,208	57,072	53.49	1,067
	139,440.21	38,317	82,368	57,073		1,067

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 53.50 0.77

SURVIVOR CURVE: IOWA 45-L0
NET SALVAGE PERCENT: 0

1890	13.00	11	13			
1897	620.75	501	621			
1899	305.00	244	305			
1900	263.11	210	263			
1901	378.47	300	378			
1908	11.01	8	10	1		
1909	45.50	35	44	2		
1910	1.00	1	1			
1914	105.50	79	100	6	6.00	1
1915	25.11	19	24	1		
1916	58.60	43	55	4		
1917	2.75	2	3			
1919	56.45	41	52	4		
1921	34.54	25	32	3		
1922	16.94	12	15	2		
1926	110.00	77	98	12	12.00	1
1931	44.62	30	38	7		
1937	39.01	26	33	6		
1941	198.30	127	161	37	18.50	2
1943	103.13	65	82	21	21.00	1
1945	15.81	10	13	3		
1946	4.87	3	4	1		
1947	22.60	14	18	5		
1948	100.00	61	77	23	23.00	1
1950	70.00	42	53	17	17.00	1
1953	166.24	97	123	43	21.50	2
1955	8.17	5	6	2		
1956	95.00	54	68	27	27.00	1
1957	187.00	105	133	54	18.00	3
1958	235.50	131	166	70	17.50	4
1959	280.00	155	196	84	21.00	4
1960	81.57	45	57	25	25.00	1
1961	332.30	180	228	104	20.80	5
1965	440.34	229	290	150	21.43	7
1966	37.55	19	24	14	14.00	1
1968	218.17	110	139	79	19.75	4
1970	23.61	12	15	9		
1971	728.26	353	448	280	23.33	12
1972	2,608.99	1,249	1,584	1,025	23.30	44
1973	116.76	55	70	47	23.50	2
1974	969.05	452	573	396	24.75	16
1975	72.25	33	42	30	30.00	1
1977	1,441.00	645	818	623	24.92	25
1978	765.00	338	428	337	25.92	13
1979	82.70	36	46	37	37.00	1
1980	91.23	39	49	42	21.00	2
1982	195.00	81	103	92	30.67	3
1995	2,658.92	1,512	1,917	742	23.19	32
	14,480.68	7,921	10,016	4,465		190

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 23.50 1.31

SURVIVOR CURVE: IOWA 65-R2.5
NET SALVAGE PERCENT: 0

1901	1,674.68	1,675	1,675			
1910	22.78	22	23			
1923	1,969.07	1,825	1,969			
1924	25.41	23	25			
1927	43.28	40	43			
1938	1,018.56	891	1,004	15	7.50	2
1948	385.48	321	362	23	11.50	2
1959	410.49	316	356	54	13.50	4
1974	3,366.13	2,178	2,455	911	22.78	40
1976	518.00	325	366	152	25.33	6
1980	1,507.30	884	996	511	26.89	19
1981	923.36	532	600	323	26.92	12
2005	9,119.74	3,110	3,505	5,615	39.54	142
	20,984.28	12,142	13,379	7,605		227

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.50 1.08

SURVIVOR CURVE: IOWA 75-R2.5
NET SALVAGE PERCENT: 0

1875	1.00	1	1			
1888	137.42	136	137			
1889	130.52	129	131			
1890	1,873.28	1,849	1,873			
1891	1,372.99	1,350	1,373			
1892	924.40	906	924			
1893	699.05	683	699			
1894	3,023.40	2,941	3,023			
1895	218.54	212	219			
1896	1,259.83	1,217	1,260			
1897	1,642.16	1,580	1,642			
1898	1,409.64	1,351	1,410			
1899	2,897.90	2,767	2,898			
1900	2,874.97	2,734	2,875			
1901	10,007.57	9,482	10,008			
1902	4,457.09	4,207	4,457			
1903	7,504.57	7,058	7,505			
1904	5,966.84	5,591	5,967			
1905	9,920.15	9,265	9,920			
1906	6,726.76	6,261	6,727			
1907	4,784.95	4,439	4,785			
1908	3,068.84	2,838	3,069			
1909	6,824.39	6,290	6,824			
1910	3,360.27	3,087	3,360			
1911	2,637.18	2,416	2,637			
1912	5,250.72	4,794	5,251			
1913	3,998.45	3,639	3,998			
1914	5,211.01	4,727	5,211			
1915	3,526.25	3,189	3,526			
1916	9,327.91	8,408	9,328			
1917	11,339.21	10,187	11,339			
1918	5,939.02	5,317	5,939			
1919	10,034.15	8,953	10,034			
1920	8,068.68	7,175	8,069			
1921	9,874.37	8,750	9,874			
1922	13,323.29	11,765	13,323			
1923	12,530.40	11,025	12,530			
1924	23,943.35	20,990	23,943			
1925	11,074.30	9,673	11,074			
1926	10,137.05	8,821	10,137			
1927	11,336.06	9,826	11,336			
1928	3,835.08	3,311	3,835			
1929	3,297.79	2,836	3,298			
1930	7,617.74	6,525	7,618			
1931	362.17	309	362			
1932	666.58	566	667			
1933	1,250.79	1,058	1,251			
1934	192.41	162	192			
1935	1,203.89	1,009	1,204			
1936	3,095.27	2,581	3,095			
1937	896.03	743	896			
1938	3,164.87	2,613	3,165			
1939	2,701.60	2,218	2,702			
1940	3,447.99	2,815	3,439	9	9.00	1
1941	4,750.60	3,857	4,712	39	13.00	3

SURVIVOR CURVE: IOWA 75-R2.5
NET SALVAGE PERCENT: 0

1942	8,225.90	6,639	8,110	116	14.50	8
1943	7,793.53	6,253	7,639	155	15.50	10
1944	6,001.22	4,784	5,844	157	15.70	10
1945	4,000.28	3,168	3,870	130	16.25	8
1946	3,848.61	3,027	3,698	151	16.78	9
1947	1,776.17	1,387	1,694	82	16.40	5
1948	2,046.38	1,587	1,939	107	17.83	6
1949	1,945.89	1,498	1,830	116	16.57	7
1950	1,033.21	789	964	69	17.25	4
1951	6,743.01	5,108	6,240	503	17.96	28
1952	5,227.54	3,927	4,797	431	18.74	23
1953	3,419.00	2,546	3,110	309	19.31	16
1954	4,135.13	3,052	3,728	407	19.38	21
1955	3,153.08	2,306	2,817	336	19.76	17
1956	13,433.71	9,733	11,890	1,544	20.59	75
1957	5,572.78	3,998	4,884	689	20.88	33
1958	7,746.35	5,502	6,721	1,025	21.81	47
1959	8,167.31	5,741	7,013	1,154	22.19	52
1960	3,263.45	2,269	2,772	491	23.38	21
1961	3,904.37	2,685	3,280	624	23.11	27
1962	5,795.30	3,941	4,814	981	23.93	41
1963	5,947.65	3,998	4,884	1,064	24.74	43
1964	6,467.83	4,295	5,247	1,221	25.44	48
1965	5,532.56	3,629	4,433	1,100	25.58	43
1966	11,080.22	7,176	8,766	2,314	26.30	88
1967	5,622.33	3,594	4,391	1,231	27.36	45
1968	3,247.97	2,048	2,502	746	27.63	27
1969	4,053.75	2,522	3,081	973	28.62	34
1970	25,742.29	15,789	19,288	6,454	28.94	223
1971	51,947.30	31,397	38,356	13,591	29.67	458
1972	27,208.63	16,202	19,793	7,416	30.39	244
1973	21,080.78	12,362	15,102	5,979	30.98	193
1974	11,679.68	6,742	8,236	3,444	31.60	109
1975	15,635.72	8,879	10,847	4,789	32.36	148
1976	24,795.30	13,849	16,918	7,877	33.10	238
1977	9,701.66	5,327	6,508	3,194	33.98	94
1978	12,975.14	7,000	8,551	4,424	34.56	128
1979	18,968.48	10,048	12,275	6,693	35.23	190
1980	8,113.79	4,219	5,154	2,960	36.10	82
1981	16,632.83	8,485	10,366	6,267	36.65	171
1982	8,839.18	4,421	5,401	3,438	37.37	92
1983	11,652.16	6,524	7,970	3,682	33.47	110
1984	61,906.30	33,844	41,345	20,561	34.33	599
1985	15,651.08	8,412	10,276	5,375	34.68	155
1986	17,645.91	9,321	11,387	6,259	35.16	178
1987	4,920.02	2,533	3,094	1,826	36.52	50
1988	38,191.05	19,290	23,565	14,626	36.66	399
1989	8,167.54	4,045	4,942	3,226	37.08	87
1990	1,377.08	663	810	567	37.80	15
1991	28,921.57	13,637	16,659	12,263	38.56	318
1992	11,012.64	5,079	6,205	4,808	39.09	123
1993	5,340.25	2,389	2,918	2,422	40.37	60
1994	15,466.03	6,754	8,251	7,215	40.53	178
1995	5,379.78	2,291	2,799	2,581	40.97	63
1996	12,980.22	5,345	6,530	6,450	41.88	154

SURVIVOR CURVE: IOWA 75-R2.5
NET SALVAGE PERCENT: 0

1997	7,464.80	2,991	3,654	3,811	42.34	90
1998	3,484.33	1,356	1,657	1,827	43.50	42
1999	15.50	6	7	8		
2000	16,002.37	5,817	7,106	8,896	44.48	200
2001	26,595.59	9,351	11,424	15,172	45.02	337
2002	309,217.69	104,979	128,246	180,972	45.55	3,973
2003	155,944.14	50,682	61,915	94,029	46.55	2,020
2004	64,143.30	20,058	24,504	39,639	47.08	842
2005	520.27	156	191	329	47.00	7
2006	25,903.77	7,393	9,031	16,873	48.63	347
2007	586.03	160	195	391	48.88	8
2008	82,248.26	21,343	26,074	56,174	49.71	1,130
2009	356.34	88	108	248	49.60	5
2010	4.00	1	1	3		
2011	17,137.51	3,731	4,558	12,580	51.77	243
2012	44.11	9	11	33	33.00	1
2015	567.59	92	112	456	57.00	8
2021	692.28	50	61	631	57.36	11
2024	332,035.65	8,135	9,938	322,098	56.39	5,712
2025	92,164.89	1,484	1,813	90,352	55.91	1,616
	2,051,366.10	856,563	1,020,182	1,031,184		22,251

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 46.30 1.08

SURVIVOR CURVE: IOWA 50-S0.5
NET SALVAGE PERCENT: 0

1906	456.70	457	457			
1910	74.04	74	74			
1929	30.85	30	31			
1937	65.76	60	66			
1938	15,789.80	14,419	15,790			
1942	15.48	14	15			
1944	26.10	23	26			
1945	62.03	54	62			
1947	109.05	93	109			
1952	6,242.77	5,109	6,013	230	9.20	25
1956	25,047.82	19,798	23,300	1,748	10.47	167
1957	1,353.14	1,060	1,247	106	10.60	10
1958	34.99	27	32	3		
1959	13.86	11	13	1		
1960	603.38	460	541	62	12.40	5
1962	2,018.73	1,508	1,775	244	12.84	19
1963	1,533.76	1,134	1,335	199	13.27	15
1964	43,478.50	31,818	37,446	6,032	13.40	450
1967	3,629.38	2,573	3,028	601	14.66	41
1968	5,768.79	4,044	4,759	1,010	14.85	68
1969	479.85	333	392	88	14.67	6
1970	1,385.27	949	1,117	268	15.76	17
1971	23,326.32	15,797	18,591	4,735	16.16	293
1972	3,121.79	2,088	2,457	665	16.63	40
1973	786.18	520	612	174	17.40	10
1974	139,894.30	91,295	107,444	32,450	17.37	1,868
1975	609.27	392	461	148	18.50	8
1976	705.18	448	527	178	17.80	10
1977	3,035.23	1,904	2,241	794	18.47	43
1978	6,870.73	4,249	5,001	1,870	19.08	98
1980	11,213.10	6,737	7,929	3,284	19.90	165
1982	703.50	410	483	220	20.00	11
1983	607.35	422	497	110	18.33	6
1985	67,767.23	46,014	54,153	13,614	19.12	712
1987	2,626.40	1,736	2,043	583	19.43	30
1988	1,274.00	829	976	298	19.87	15
1990	13,349.43	8,415	9,903	3,446	20.76	166
1991	32,762.97	20,297	23,887	8,876	21.13	420
1992	26,698.28	16,238	19,110	7,588	21.56	352
1994	42,278.62	24,708	29,078	13,201	22.34	591
1995	118,256.75	67,619	79,580	38,677	22.78	1,698
1996	9,454.33	5,312	6,252	3,202	22.87	140
1997	5,432.04	2,979	3,506	1,926	23.49	82
1998	169,768.23	91,233	107,371	62,397	23.60	2,644
2002	498,453.49	240,454	282,986	215,467	25.13	8,574
2003	113,286.62	52,826	62,170	51,117	25.66	1,992
2004	63,989.80	28,917	34,032	29,958	25.98	1,153
2005	70,222.38	30,680	36,107	34,115	26.30	1,297
2006	87,641.30	36,923	43,454	44,187	26.67	1,657
2007	44,851.16	18,088	21,287	23,564	27.24	865
2008	260,198.94	100,593	118,386	141,813	27.63	5,133
2009	8,618,992.07	3,183,856	3,747,027	4,871,965	28.03	173,813
2010	201,983.09	71,300	83,912	118,071	28.25	4,180
2011	226,605.73	75,800	89,208	137,398	28.69	4,789
2014	44,041.32	12,169	14,321	29,720	29.90	994

SURVIVOR CURVE: IOWA 50-S0.5
NET SALVAGE PERCENT: 0

2017	195,540.18	41,474	48,810	146,730	31.27	4,692
2018	68,940.26	13,092	15,408	53,532	31.64	1,692
2019	1,395.07	233	274	1,121	32.03	35
2021	389,650.91	46,291	54,479	335,172	32.76	10,231
2024	634,287.77	25,435	29,934	604,354	33.92	17,817
	12,308,841.37	4,471,821	5,261,525	7,047,317		249,139

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.30 2.02

SURVIVOR CURVE: IOWA 33-S0
NET SALVAGE PERCENT: 0

1926	26.31	26	26			
1931	218.45	218	218			
1933	44.94	45	45			
1936	73.64	74	74			
1937	531.89	532	532			
1939	100.05	100	100			
1940	956.27	956	956			
1941	898.87	899	899			
1942	629.69	630	630			
1943	248.82	249	249			
1944	261.20	261	261			
1945	217.29	217	217			
1946	820.91	821	821			
1947	921.97	922	922			
1948	1,216.34	1,216	1,216			
1949	1,134.41	1,134	1,134			
1950	567.10	567	567			
1951	543.96	544	544			
1952	1,053.47	1,053	1,053			
1953	1,069.33	1,069	1,069			
1954	633.57	634	634			
1955	741.69	742	742			
1956	1,395.06	1,395	1,395			
1957	2,346.89	2,347	2,347			
1958	2,203.34	2,203	2,203			
1959	3,274.42	3,274	3,274			
1960	2,528.27	2,511	2,528			
1961	2,559.62	2,515	2,560			
1962	1,874.02	1,820	1,874			
1963	2,029.56	1,948	2,030			
1964	2,616.00	2,482	2,616			
1965	1,273.78	1,194	1,274			
1966	2,269.62	2,102	2,270			
1967	1,324.41	1,212	1,324			
1968	1,734.23	1,567	1,727	7	3.50	2
1969	3,425.35	3,056	3,368	57	3.56	16
1970	1,286.76	1,133	1,248	39	3.90	10
1971	668.05	581	640	28	4.67	6
1972	1,383.67	1,187	1,308	76	4.75	16
1973	761.21	644	710	51	5.10	10
1974	719.26	600	661	58	5.27	11
1975	963.27	792	873	90	6.00	15
1977	536.39	428	472	64	6.40	10
1978	215.76	170	187	29	7.25	4
1980	9.48	7	8	1		
1981	87.81	66	73	15	7.50	2
1983	39.62	33	36	4		
1984	99.50	82	90	10	10.00	1
1988	14.12	11	12	2		
1990	20.61	16	18	3		
1991	96.00	72	79	17	8.50	2
1996	73.72	51	56	18	18.00	1
1999	618.21	407	449	169	14.08	12

SURVIVOR CURVE: IOWA 33-S0
NET SALVAGE PERCENT: 0

2023	11,419.39	1,223	1,348	10,072	20.14	500
	62,777.57	50,038	51,967	10,811		618

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.50 0.98

SURVIVOR CURVE: IOWA 60-R2.5
NET SALVAGE PERCENT: 0

1906	29.99	30	30		
1923	95.58	92	96		
1925	385.22	367	385		
1930	2,807.06	2,611	2,807		
1931	435.00	403	435		
1934	601.82	551	602		
1937	1,286.00	1,163	1,286		
1938	651.10	587	651		
1939	189.89	170	190		
1940	636.24	568	636		
1942	77.88	69	78		
1943	2,016.88	1,779	2,017		
1945	452.54	395	453		
1946	2,458.57	2,138	2,459		
1947	904.95	783	905		
1948	1,112.43	958	1,112		
1949	221.89	190	222		
1951	66.26	56	66		
1952	571.42	482	571		
1955	411.60	341	412		
1958	1,144.69	929	1,145		
1959	31,709.01	25,531	31,709		
1960	1,570.53	1,255	1,571		
1961	3,625.00	2,873	3,625		
1962	1,076.72	846	1,077		
1963	680.33	530	680		
1964	4,511.67	3,482	4,512		
1965	831.40	635	831		
1966	114.36	87	114		
1968	36,991.24	27,392	36,991		
1969	245.28	180	245		
1971	2,313.81	1,654	2,314		
1972	612.48	432	612		
1974	22,623.29	15,535	22,116	507	18.78
1975	3,901.22	2,640	3,758	143	20.43
1976	208.11	139	198	10	10.00
1977	26,345.91	17,305	24,636	1,710	20.60
1979	2,212.93	1,407	2,003	210	21.00
1980	97,670.75	61,061	86,930	10,741	22.47
1981	643.50	395	562	82	20.50
1982	5,146.63	3,104	4,419	728	23.48
1983	4,071.13	2,694	3,835	236	21.45
1984	20,420.45	13,277	18,902	1,518	22.32
1985	5,137.69	3,281	4,671	467	23.35
1986	3,301.96	2,069	2,946	356	23.73
1987	20,490.35	12,595	17,931	2,559	24.14
1988	10,481.87	6,314	8,989	1,493	24.88
1989	22,648.83	13,363	19,024	3,625	25.35
1990	2,552.29	1,473	2,097	455	25.28
1991	41,020.96	23,152	32,960	8,061	26.52
1992	106,311.11	58,620	83,455	22,856	27.18
1994	130,682.51	68,569	97,618	33,065	28.46
1995	18,382.83	9,394	13,374	5,009	29.12
1997	10,281.55	4,967	7,071	3,211	30.29
1999	18,151.93	8,248	11,742	6,410	31.73
					202

SURVIVOR CURVE: IOWA 60-R2.5
NET SALVAGE PERCENT: 0

2001	18,550.28	7,927	11,285	7,265	32.73	222
2002	28,964.69	11,936	16,993	11,972	33.44	358
2005	7,907.93	2,890	4,114	3,794	35.46	107
2006	7,372.59	2,577	3,669	3,704	36.31	102
2008	46,189.52	14,642	20,845	25,345	37.55	675
2012	1,028,723.58	258,107	367,456	661,268	40.06	16,507
2013	4,370.54	1,020	1,452	2,919	40.54	72
2014	54,393.11	11,798	16,796	37,597	41.22	912
2017	33,443.06	5,461	7,775	25,668	43.14	595
2019	2,790.13	353	503	2,287	43.98	52
2021	19,981.66	1,782	2,536	17,445	45.08	387
	1,926,213.73	727,654	1,023,500	902,713		23,858

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT ... 37.80 1.24

SURVIVOR CURVE: IOWA 25-L1
 NET SALVAGE PERCENT: 0

1921	6,345.07	6,345	6,345	
1933	5.00	5	5	
1942	23.70	24	24	
1965	620.40	537	620	
1974	1,086.16	865	1,086	
1981	177.94	131	178	
1982	113.94	83	114	
1985	312.58	268	313	
1994	198.47	156	198	
1995	16.42	13	16	
1997	314.81	238	1,562	(1,247)
	9,214.49	8,665	10,461	(1,247)

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 26-L1
NET SALVAGE PERCENT: 0

1921	1,219.94	1,220	1,220			
1945	420.81	411	333	88	1.00	88
1954	1,258.20	1,161	939	319	2.01	159
1979	31.01	23	19	12	6.00	2
1984	30.56	26	20	10	10.00	1
	2,960.52	2,841	2,531	429		250

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 1.70 8.44

SURVIVOR CURVE: IOWA 65-R1.5
NET SALVAGE PERCENT: 0

1875	75.41	75	75		
1886	521.89	522	522		
1889	52.23	52	52		
1890	36,476.04	36,476	36,476		
1891	140.55	141	141		
1892	2,502.95	2,503	2,503		
1893	4,595.79	4,596	4,596		
1894	17,812.81	17,813	17,813		
1895	7,774.35	7,760	7,774		
1896	2,813.91	2,794	2,814		
1897	6,600.03	6,525	6,600		
1898	28,600.17	28,125	28,600		
1899	45,385.23	44,408	45,385		
1900	45,087.72	43,887	45,088		
1901	76,042.37	73,633	76,042		
1902	62,370.64	60,068	62,371		
1903	63,442.02	60,768	63,442		
1904	46,002.99	43,823	46,003		
1905	106,521.27	100,933	106,521		
1906	18,502.80	17,444	18,503		
1907	106,421.39	99,839	106,421		
1908	89,111.70	83,230	89,112		
1909	24,002.03	22,322	24,002		
1910	30,907.70	28,630	30,908		
1911	3,386.82	3,125	3,387		
1912	2,881.07	2,648	2,881		
1913	34,780.18	31,848	34,780		
1914	39,949.19	36,446	39,949		
1915	6,617.37	6,015	6,617		
1916	15,369.22	13,915	15,369		
1917	39,674.04	35,774	39,674		
1918	24,506.13	22,010	24,506		
1919	21,981.63	19,658	21,982		
1920	30,004.99	26,723	30,005		
1921	8,830.44	7,829	8,830		
1922	84,338.05	74,451	84,338		
1923	33,571.78	29,502	33,572		
1924	36,803.99	32,190	36,804		
1925	39,172.04	34,098	39,088	84	8.40
1926	16,199.35	14,034	16,088	111	8.54
1927	58,591.24	50,506	57,898	693	9.00
1928	22,450.27	19,255	22,073	377	9.20
1929	44,700.26	38,146	43,729	971	9.52
1930	30,101.20	25,554	29,294	807	9.84
1931	28,845.25	24,359	27,924	921	10.12
1932	8,394.86	7,052	8,084	311	10.37
1933	11,553.05	9,651	11,063	490	10.65
1934	3,362.15	2,793	3,202	160	10.67
1935	8,335.35	6,886	7,894	441	11.31
1936	3,639.03	2,989	3,426	213	11.83
1937	15,985.98	13,054	14,965	1,021	11.87
1938	37,256.37	30,247	34,674	2,582	12.24
1939	82,912.80	66,904	76,696	6,217	12.56
1940	29,422.35	23,592	27,045	2,377	12.85
1941	180,288.06	143,648	164,672	15,616	13.21
					1,182

SURVIVOR CURVE: IOWA 65-R1.5
NET SALVAGE PERCENT: 0

1942	42,612.26	33,736	38,674	3,938	13.53	291
1943	36,458.71	28,673	32,869	3,590	13.86	259
1944	123,212.15	96,239	110,324	12,888	14.23	906
1945	90,964.96	70,561	80,888	10,077	14.58	691
1946	51,802.18	39,895	45,734	6,068	14.95	406
1947	52,329.20	40,012	45,868	6,461	15.31	422
1948	16,505.10	12,526	14,359	2,146	15.66	137
1949	52,849.12	39,800	45,625	7,224	16.05	450
1950	55,758.64	41,665	47,763	7,996	16.42	487
1951	54,549.84	40,426	46,343	8,207	16.82	488
1952	65,598.85	48,210	55,266	10,333	17.22	600
1953	101,582.01	74,030	84,865	16,717	17.63	948
1954	56,930.88	41,122	47,140	9,791	18.06	542
1955	53,471.76	38,278	43,880	9,592	18.48	519
1956	315,979.17	224,102	256,901	59,078	18.90	3,126
1957	484,762.51	340,526	390,364	94,399	19.34	4,881
1958	187,931.49	130,742	149,877	38,054	19.78	1,924
1959	322,402.38	222,013	254,506	67,896	20.24	3,355
1960	243,795.33	166,156	190,474	53,321	20.70	2,576
1961	93,689.27	63,176	72,422	21,267	21.16	1,005
1962	180,425.02	120,329	137,940	42,485	21.65	1,962
1963	243,737.14	160,715	184,237	59,500	22.14	2,687
1964	235,566.78	153,554	176,028	59,539	22.63	2,631
1965	159,784.98	102,925	117,989	41,796	23.13	1,807
1966	210,256.55	133,788	153,369	56,888	23.64	2,406
1967	270,395.12	169,892	194,757	75,638	24.16	3,131
1968	197,279.32	122,343	140,249	57,030	24.69	2,310
1969	619,881.63	379,368	434,891	184,991	25.22	7,335
1970	108,220.21	65,331	74,893	33,327	25.76	1,294
1971	491,669.82	292,657	335,489	156,181	26.31	5,936
1972	1,347,503.73	790,473	906,164	441,340	26.87	16,425
1973	535,280.82	309,312	354,582	180,699	27.44	6,585
1974	699,092.96	397,840	456,067	243,026	28.01	8,676
1975	997,919.51	558,985	640,796	357,124	28.59	12,491
1976	574,880.53	316,805	363,172	211,709	29.18	7,255
1977	1,226,761.82	664,905	762,219	464,543	29.77	15,604
1978	597,088.21	318,111	364,669	232,419	30.37	7,653
1979	712,097.33	372,698	427,245	284,852	30.98	9,195
1980	853,423.94	438,532	502,714	350,710	31.60	11,098
1981	722,056.59	364,140	417,435	304,622	32.22	9,454
1982	746,578.78	369,273	423,319	323,260	32.85	9,840
1983	495,749.24	296,508	339,904	155,845	28.50	5,468
1984	880,508.27	517,827	593,615	286,893	29.01	9,889
1985	2,111,376.29	1,220,375	1,398,986	712,390	29.51	24,141
1986	829,185.62	470,646	539,528	289,658	30.03	9,646
1987	328,958.25	183,230	210,047	118,911	30.55	3,892
1988	2,101,102.72	1,147,832	1,315,825	785,278	31.08	25,266
1989	774,400.60	414,537	475,207	299,194	31.61	9,465
1990	601,377.89	315,242	361,380	239,998	32.15	7,465
1991	1,292,934.22	663,017	760,054	532,880	32.70	16,296
1992	1,522,065.67	762,859	874,509	647,557	33.25	19,475
1993	523,691.94	258,023	295,787	227,905	33.38	6,828
1994	611,624.94	294,008	337,038	274,587	33.94	8,090
1995	602,916.26	282,406	323,738	279,178	34.52	8,087
1996	935,976.24	426,805	489,271	446,705	35.10	12,727

SURVIVOR CURVE: IOWA 65-R1.5
NET SALVAGE PERCENT: 0

1997	2,110,700.40	935,673	1,072,616	1,038,084	35.69	29,086
1998	446,589.49	193,463	221,778	224,811	35.87	6,267
1999	532,708.60	223,738	256,484	276,225	36.48	7,572
2000	852,677.64	346,784	397,538	455,140	37.08	12,275
2001	933,096.94	369,133	423,158	509,939	37.31	13,668
2002	231,923.94	88,525	101,481	130,443	37.93	3,439
2003	1,241,174.27	459,110	526,304	714,870	38.19	18,719
2004	521,964.71	185,558	212,716	309,249	38.83	7,964
2005	824,695.14	282,870	324,270	500,425	39.11	12,795
2006	558,026.41	184,205	211,165	346,861	39.41	8,801
2007	1,603,955.80	505,086	579,009	1,024,947	40.06	25,585
2008	2,432,463.99	732,901	840,166	1,592,298	40.39	39,423
2009	1,478,184.83	424,683	486,838	991,347	40.73	24,339
2010	1,879,876.35	513,018	588,102	1,291,774	41.08	31,445
2011	5,132,612.57	1,324,727	1,518,610	3,614,003	41.45	87,189
2012	2,270,720.03	551,331	632,022	1,638,698	41.83	39,175
2013	2,988,337.65	682,835	782,773	2,205,565	41.93	52,601
2014	2,172,840.23	461,511	529,057	1,643,783	42.34	38,823
2015	1,596,414.83	314,334	360,339	1,236,076	42.49	29,091
2016	289,492.25	52,340	60,000	229,492	42.67	5,378
2017	1,081,146.09	178,389	204,498	876,648	42.60	20,579
2018	1,706,596.49	251,894	288,761	1,417,835	42.83	33,104
2019	4,743,287.54	618,050	708,506	4,034,782	42.84	94,183
2020	2,591,280.97	292,037	334,779	2,256,502	42.66	52,895
2021	1,462,713.53	138,226	158,456	1,304,258	42.31	30,826
2022	4,233,205.04	319,607	366,384	3,866,821	41.83	92,441
2023	2,600,189.54	145,091	166,326	2,433,864	40.87	59,551
2024	1,709,188.65	59,480	68,185	1,641,004	39.24	41,820
2025	1,453,477.16	34,593	39,656	1,413,821	37.55	37,652
	81,350,164.33	28,157,640	32,189,505	49,160,659		1,295,932

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.90 1.59

SURVIVOR CURVE: IOWA 35-S0.5
NET SALVAGE PERCENT: 0

1936	305.23	305	305			
1938	3,171.28	3,171	3,171			
1942	255.76	256	256			
1944	284.18	284	284			
1946	11.02	11	11			
1948	1,830.53	1,831	1,831			
1953	52,491.60	52,492	52,492			
1955	479.09	479	479			
1956	33,800.67	33,579	33,107	694	1.00	694
1957	5,359.29	5,272	5,198	161	1.00	161
1959	100.53	97	96	5	1.25	4
1963	1,841.23	1,703	1,679	162	2.61	62
1964	419.25	384	379	40	2.86	14
1968	579.93	509	502	78	4.33	18
1969	221.27	192	189	32	4.57	7
1970	1,226.38	1,052	1,037	189	4.97	38
1971	117,537.02	99,671	98,270	19,267	5.32	3,622
1972	108.27	91	90	18	6.00	3
1973	674.98	559	551	124	5.90	21
1974	431,175.23	352,947	347,987	83,188	6.35	13,100
1976	3,657.60	2,922	2,881	777	7.06	110
1977	34,387.95	27,117	26,736	7,652	7.40	1,034
1978	13,478.77	10,490	10,343	3,136	7.76	404
1979	6,137.66	4,714	4,648	1,490	8.14	183
1980	188.21	143	141	47	7.83	6
1981	8,675.45	6,482	6,391	2,284	8.85	258
1982	3,507.78	2,583	2,547	961	9.24	104
1984	1,279.85	1,049	1,034	246	9.11	27
1985	214,542.46	174,294	171,845	42,697	9.33	4,576
1986	17,659.90	14,131	13,932	3,728	9.84	379
1987	2,786.28	2,205	2,174	612	10.20	60
1988	49,235.99	38,503	37,962	11,274	10.43	1,081
1989	59,265.13	45,753	45,110	14,155	10.75	1,317
1990	129,325.31	98,481	97,097	32,228	11.09	2,906
1991	6,677.36	5,010	4,940	1,737	11.43	152
1992	218,806.20	162,310	160,029	58,777	11.63	5,054
1993	42,865.41	31,266	30,827	12,038	12.03	1,001
1994	127,566.85	91,772	90,482	37,085	12.25	3,027
1995	1,718,078.83	1,212,448	1,195,410	522,669	12.69	41,187
1996	74,307.02	51,584	50,859	23,448	12.96	1,809
1997	20,193.55	13,715	13,522	6,672	13.42	497
1998	109,677.40	73,067	72,040	37,637	13.74	2,739
1999	182,541.07	119,108	117,434	65,107	14.07	4,627
2000	131,759.21	84,062	82,881	48,878	14.42	3,390
2001	34,836.33	21,689	21,384	13,452	14.80	909
2002	6,687,528.21	4,071,367	4,014,154	2,673,374	15.05	177,633
2003	1,456,829.70	862,152	850,037	606,793	15.46	39,249
2004	820,297.00	472,573	465,932	354,365	15.76	22,485
2005	1,401,347.54	781,111	770,134	631,214	16.21	38,940
2006	1,960,879.99	1,058,483	1,043,609	917,271	16.55	55,424
2007	5,312,675.83	2,768,967	2,730,056	2,582,620	16.92	152,637
2008	2,294,621.36	1,150,982	1,134,808	1,159,813	17.31	67,002
2009	3,593,598.31	1,734,271	1,709,900	1,883,698	17.60	107,028
2010	1,978,995.48	912,317	899,497	1,079,498	18.03	59,872
2011	1,015,276.39	446,417	440,144	575,132	18.37	31,308

SURVIVOR CURVE: IOWA 35-S0.5
NET SALVAGE PERCENT: 0

2012	160,014.49	66,550	65,615	94,399	18.84	5,011
2013	263,983.47	103,587	102,131	161,852	19.23	8,417
2014	134,354.47	49,550	48,854	85,500	19.54	4,376
2015	164,299.48	56,305	55,514	108,785	19.98	5,445
2016	174,711.47	55,121	54,346	120,365	20.43	5,892
2017	1,167,263.40	335,938	331,217	836,046	20.82	40,156
2018	190,466.80	49,293	48,600	141,867	21.24	6,679
2019	1,190,006.26	272,630	268,799	921,207	21.59	42,668
2020	441,283.66	87,021	85,798	355,486	22.05	16,122
2021	3,988,152.04	655,253	646,045	3,342,107	22.47	148,736
2022	4,020,893.75	523,520	516,163	3,504,731	22.83	153,514
2023	1,061,212.82	99,966	98,561	962,652	23.23	41,440
2024	5,404,691.97	306,446	302,140	5,102,552	23.58	216,393
2025	41,522.16	1,545	1,523	39,999	23.71	1,687
	48,788,216.36	19,771,148	19,494,140	29,294,076		1,542,695

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 19.00 3.16

SURVIVOR CURVE: IOWA 20-L0
NET SALVAGE PERCENT: 0

1898	63.63	64	64
1918	8.14	8	8
1921	18.75	19	19
1923	7.74	8	8
1924	39.84	40	40
1925	40.21	40	40
1926	548.53	549	549
1927	94.68	95	95
1928	56.54	57	57
1929	186.99	187	187
1930	22.23	22	22
1931	65.94	66	66
1932	44.67	45	45
1933	8.88	9	9
1934	711.25	711	711
1935	11.22	11	11
1936	491.83	492	492
1937	149.14	149	149
1938	145.26	145	145
1939	222.73	223	223
1940	570.86	571	571
1941	365.00	365	365
1942	1,037.60	1,038	1,038
1943	281.55	282	282
1944	285.03	284	285
1945	362.59	352	363
1946	721.45	687	721
1947	425.88	402	426
1948	692.69	649	693
1949	1,867.05	1,738	1,867
1950	333.77	309	334
1951	535.45	492	535
1952	3,734.08	3,413	3,734
1953	9,873.74	8,960	9,874
1954	10,638.98	9,591	10,639
1955	2,384.74	2,136	2,385
1956	6,064.18	5,394	6,064
1957	4,932.69	4,356	4,933
1958	6,369.67	5,586	6,370
1959	2,764.71	2,407	2,765
1960	3,812.13	3,294	3,812
1961	5,498.39	4,715	5,498
1962	4,594.65	3,908	4,595
1963	3,696.81	3,120	3,697
1964	5,113.80	4,280	5,114
1965	4,173.68	3,466	4,174
1966	4,430.39	3,648	4,430
1967	5,043.03	4,115	5,043
1968	8,020.16	6,488	8,020
1969	12,602.57	10,101	12,603
1970	4,759.17	3,781	4,759
1971	14,785.42	11,636	14,785
1972	7,088.03	5,522	7,088
1973	12,894.47	9,948	12,894
1974	23,255.32	17,755	23,139

SURVIVOR CURVE: IOWA 20-L0
NET SALVAGE PERCENT: 0

1975	63,281.47	47,809	62,307	974	4.89	199
1976	40,036.32	29,927	39,002	1,034	5.04	205
1977	54,570.46	40,355	52,592	1,978	5.21	380
1978	96,184.07	70,311	91,632	4,552	5.38	846
1979	95,811.38	69,224	90,215	5,596	5.55	1,008
1980	30,973.93	22,100	28,802	2,172	5.73	379
1981	71,976.20	50,743	66,130	5,846	5.90	991
1982	70,222.41	48,875	63,696	6,526	6.08	1,073
1983	64,615.14	57,010	64,615			
1984	30,308.54	26,487	30,309			
1985	61,790.08	53,696	61,790			
1986	102,499.87	88,478	102,500			
1987	35,766.84	30,641	35,767			
1988	115,418.15	98,463	115,418			
1989	65,185.78	55,075	65,186			
1990	96,724.79	81,191	96,725			
1991	158,119.23	131,698	158,119			
1992	29,377.62	24,248	29,378			
1993	19,402.45	15,850	19,402			
1994	106,062.04	85,634	106,062			
1995	11,890.54	9,512	11,891			
1996	7,154.07	5,661	7,154			
1997	13,306.12	10,399	13,306			
1998	8,035.94	6,191	8,036			
1999	91.55	70	92			
2000	1,544.13	1,158	1,544			
2002	8,688.46	6,328	8,688			
2003	6,821.77	4,878	6,807	15	7.50	2
2004	8,162.73	5,734	8,001	162	9.00	18
2005	9,288.88	6,391	8,918	371	9.28	40
2006	6,911.05	4,657	6,498	413	9.39	44
2007	42.13	28	39	3		
2008	11,306.98	7,247	10,112	1,195	9.80	122
2009	1,030,626.43	642,905	897,079	133,547	9.90	13,490
2010	91,350.96	55,350	77,233	14,118	10.03	1,408
2011	188,760.14	110,764	154,555	34,205	10.15	3,370
2013	28,500.44	15,499	21,627	6,873	10.41	660
2017	17,701.28	7,778	10,853	6,848	10.73	638
2020	20,439.63	6,831	9,532	10,908	10.79	1,011
2021	227,237.22	66,240	92,428	134,809	10.73	12,564
2022	203,879.04	49,604	69,214	134,665	10.63	12,668
2023	3,652.29	688	960	2,692	10.43	258
	3,490,666.48	2,299,457	2,981,049	509,617		51,399

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.90 1.47

SURVIVOR CURVE: IOWA 23-L1
 NET SALVAGE PERCENT: 0

2004	16,266.98	11,322	10,785	5,482	9.35	586
2005	26,138.29	17,824	16,979	9,159	9.52	962
2006	14,141.38	9,418	8,971	5,170	9.74	531
2008	9,645.75	6,098	5,809	3,837	10.12	379
	66,192.40	44,662	42,544	23,648		2,458

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.60 3.71

SURVIVOR CURVE: IOWA 55-L4
NET SALVAGE PERCENT: 0

1967	764.79	621	527	238	10.35	23
1969	4,194.89	3,386	2,876	1,319	10.64	124
1970	49.41	40	34	15	15.00	1
1976	93.45	73	62	31	10.33	3
1977	2,088.06	1,611	1,368	720	12.63	57
1979	9,290.53	7,017	5,960	3,331	13.49	247
1989	342.71	230	195	148	18.50	8
	16,823.84	12,978	11,022	5,802		463

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 12.50 2.75

SURVIVOR CURVE: IOWA 70-R3
NET SALVAGE PERCENT: 0

1916	922.66	895	923			
1925	257.87	242	258			
1926	459.25	429	459			
1929	64.04	59	64			
1940	198.63	175	199			
1941	73.96	65	74			
1942	442.68	386	443			
1943	166.39	144	166			
1945	66.96	57	67			
1946	558.07	476	558			
1947	1,450.95	1,230	1,451			
1948	1,558.71	1,314	1,559			
1949	1,239.91	1,038	1,240			
1953	162.40	132	162			
1954	2,117.36	1,710	2,117			
1955	437.08	350	437			
1961	890.72	675	871	20	20.00	1
1962	39.11	29	37	2		
1965	87.33	63	81	6		
1966	1,016.02	728	939	77	19.25	4
1967	169.49	120	155	14	14.00	1
1968	1,932.65	1,351	1,743	190	21.11	9
1969	1,120.00	772	996	124	20.67	6
1970	644.80	439	566	79	19.75	4
1972	392.00	259	334	58	29.00	2
1973	1,159.09	755	974	185	23.13	8
1974	448.00	288	372	76	25.33	3
1977	280.00	171	221	59	29.50	2
1979	60.66	36	46	15	15.00	1
1980	112.00	65	84	28	28.00	1
1983	1,456.00	871	1,124	332	27.67	12
1985	1,400.00	809	1,044	356	29.67	12
1986	409.02	231	298	111	27.75	4
1987	441.00	244	315	126	31.50	4
1993	875.00	420	542	333	37.00	9
2000	2,875.00	1,111	1,433	1,442	40.06	36
2004	17,233.24	5,684	7,332	9,901	43.43	228
2006	19,252.16	5,795	7,476	11,776	45.12	261
2024	54,760.21	1,298	1,674	53,086	58.46	908
2025	21,297.60	328	424	20,874	58.63	356
	138,528.02	31,244	39,258	99,270		1,872

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 53.00 1.35

SURVIVOR CURVE: IOWA 60-R2
NET SALVAGE PERCENT: 0

1922	2,829.48	2,731	2,247	582	2.09	278
1926	27,541.11	26,077	21,454	6,087	3.19	1,908
1937	16,189.19	14,473	11,907	4,282	6.36	673
1938	95.25	85	70	25	6.25	4
1940	400.17	352	290	110	7.33	15
1945	426.05	364	299	127	9.07	14
1946	58.82	50	41	18	9.00	2
1947	1,202.28	1,014	834	368	9.44	39
1949	1,543.88	1,286	1,058	486	10.13	48
1950	5,236.77	4,331	3,563	1,674	10.40	161
1951	3,014.62	2,476	2,037	978	10.75	91
1952	740.00	603	496	244	11.09	22
1953	2,900.60	2,348	1,932	969	11.40	85
1955	19,384.40	15,453	12,713	6,671	12.17	548
1956	3,782.70	2,991	2,461	1,322	12.59	105
1957	6,109.86	4,792	3,942	2,168	12.90	168
1958	1,371.20	1,066	877	494	13.35	37
1959	1,334.85	1,029	847	488	13.94	35
1963	3,163.12	2,347	1,931	1,232	15.40	80
1964	41.65	31	26	16	16.00	1
1965	1,891.52	1,375	1,131	761	16.54	46
1966	509.61	366	301	209	17.42	12
1967	126.88	90	74	53	17.67	3
1968	1,796.46	1,262	1,038	758	18.05	42
1969	2,701.00	1,874	1,542	1,159	18.40	63
1970	537.68	368	303	235	19.58	12
1971	551.41	373	307	244	18.77	13
1972	13,370.77	8,927	7,344	6,027	19.96	302
1973	3,559.13	2,344	1,928	1,631	20.39	80
1974	28,324.75	18,388	15,128	13,197	21.05	627
1975	218.60	140	115	104	20.80	5
1976	85.52	54	44	42	21.00	2
1977	1,110.04	689	567	543	22.63	24
1981	1,050.11	609	501	549	24.95	22
1982	80.70	46	38	43	21.50	2
1986	7,180.22	4,415	3,632	3,548	24.64	144
1987	3,015.84	1,819	1,497	1,519	25.32	60
1989	23,593.89	13,661	11,239	12,355	26.46	467
1992	43,447.38	23,666	19,470	23,977	27.95	858
1993	41,380.63	21,998	18,098	23,283	28.57	815
1994	10,078.67	5,225	4,299	5,780	29.19	198
1995	2,597.85	1,312	1,079	1,519	29.78	51
1996	79,849.12	39,461	32,465	47,384	30.10	1,574
1997	26,972.82	12,952	10,656	16,317	30.79	530
1998	586,849.01	273,530	225,037	361,812	31.41	11,519
1999	21,627.73	9,769	8,037	13,591	32.05	424
2000	177,972.01	78,254	64,381	113,591	32.39	3,507
2001	15,235.14	6,472	5,325	9,910	33.03	300
2002	15,519.54	6,360	5,232	10,288	33.73	305
2003	330,001.37	130,945	107,730	222,271	34.08	6,522
2004	149,518.06	56,996	46,891	102,627	34.77	2,952
2006	158,602.08	55,733	45,852	112,750	35.83	3,147
2007	111,088.83	37,237	30,636	80,453	36.54	2,202
2008	3,484.86	1,117	919	2,566	37.19	69
2010	6,944.58	2,002	1,647	5,298	38.12	139

SURVIVOR CURVE: IOWA 60-R2
NET SALVAGE PERCENT: 0

2014	82,977.62	18,380	15,122	67,856	40.13	1,691
2015	29,547.03	6,063	4,988	24,559	40.33	609
2017	52,907.60	8,952	7,365	45,543	41.33	1,102
2020	250,885.11	28,551	23,489	227,396	42.20	5,389
2025	15,997.02	354	291	15,706	40.58	387
	2,400,554.19	966,028	794,763	1,605,791		50,530

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 31.80 2.10

SURVIVOR CURVE: IOWA 60-R1.5
NET SALVAGE PERCENT: 0

1916	2,539.39	2,384	(4,241)	6,780	3.68	1,842
1917	5.00	5	5			
1924	7,454.45	6,760	(12,026)	19,480	5.59	3,485
1925	5,143.95	4,646	(8,265)	13,409	5.81	2,308
1927	196.72	176	(313)	510	6.30	81
1928	2,962.00	2,639	(4,695)	7,657	6.54	1,171
1929	3,668.00	3,253	(5,787)	9,455	6.79	1,392
1939	105.27	89	(158)	263	9.39	28
1942	7,724.97	6,380	(11,350)	19,075	10.45	1,825
1943	6,312.63	5,182	(9,219)	15,532	10.75	1,445
1945	320.90	260	(463)	784	11.36	69
1946	9,434.59	7,595	(13,512)	22,947	11.70	1,961
1947	31,470.78	25,161	(44,763)	76,234	12.03	6,337
1948	30,463.44	24,188	(43,032)	73,495	12.36	5,946
1949	2,709.44	2,136	(3,800)	6,509	12.69	513
1950	10,150.94	7,945	(14,135)	24,286	13.04	1,862
1951	0.98	1	1			
1952	12.10	9	(16)	28	14.00	2
1953	23.42	18	(32)	55	13.75	4
1961	121.49	86	(153)	274	17.13	16
1962	479.82	338	(601)	1,081	17.72	61
1966	2.80	2	(4)	7		
1967	276.82	184	(327)	604	20.13	30
1968	487.45	321	(571)	1,058	20.35	52
1970	285.49	183	(326)	611	21.82	28
1972	27,301.90	17,032	(30,301)	57,603	22.57	2,552
1973	7,216.69	4,438	(7,895)	15,112	23.11	654
1974	8,276.21	5,015	(8,922)	17,198	23.66	727
1975	13,432.20	8,017	(14,263)	27,695	24.19	1,145
1979	537.37	300	(534)	1,071	26.78	40
1981	11,275.70	6,080	(10,817)	22,093	27.65	799
1983	175.10	110	(196)	371	24.73	15
1984	67,726.27	42,072	(74,849)	142,575	25.25	5,647
1989	81,086.07	46,065	(81,952)	163,038	27.69	5,888
1990	27,260.97	15,157	(26,965)	54,226	28.29	1,917
1991	52,170.80	28,370	(50,472)	102,643	28.87	3,555
1992	32,064.02	17,036	(30,308)	62,372	29.48	2,116
1993	393.40	205	(365)	758	29.15	26
1995	564.33	280	(498)	1,062	31.24	34
1997	273,774.80	129,140	(229,748)	503,523	31.83	15,819
1998	306,931.44	141,373	(251,511)	558,442	32.11	17,392
1999	3,351.15	1,496	(2,661)	6,012	32.67	184
2000	106,746.74	46,392	(82,535)	189,282	33.06	5,725
2002	3,116.50	1,270	(2,259)	5,376	34.03	158
2004	18,369.13	6,964	(12,389)	30,758	35.07	877
2005	55,609.98	20,325	(36,160)	91,770	35.45	2,589
2006	82,093.99	28,848	(51,323)	133,417	35.83	3,724
2017	18,139.98	3,191	(5,677)	23,817	39.43	604
2021	10,101.22	1,021	(1,816)	11,917	39.20	304
	1,330,068.80	670,138	(1,192,199)	2,522,268		102,949

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 24.50 7.74

SURVIVOR CURVE: IOWA 55-R1
NET SALVAGE PERCENT: 0

1916	605.74	601	161	445	1.00	445
1917	668.16	660	176	492	1.00	492
1924	2,632.59	2,487	665	1,968	3.04	647
1925	2,486.30	2,335	624	1,862	3.35	556
1943	7,470.84	6,254	1,672	5,799	8.96	647
1945	2,654.21	2,188	585	2,069	9.67	214
1946	5,867.60	4,800	1,283	4,585	10.01	458
1947	9,284.22	7,534	2,014	7,270	10.37	701
1948	7,620.75	6,134	1,640	5,981	10.74	557
1949	37.27	30	8	29	9.67	3
1950	2,385.00	1,888	505	1,880	11.46	164
1952	39.26	31	8	31	10.33	3
1953	260.58	201	54	207	12.94	16
1961	270.09	192	51	219	15.64	14
1966	137.13	92	25	112	18.67	6
1967	811.69	538	144	668	18.56	36
1968	7.19	5	1	6		
1971	5,491.18	3,446	921	4,570	20.49	223
1972	20,815.26	12,875	3,443	17,372	20.98	828
1973	27,644.52	16,848	4,505	23,140	21.49	1,077
1974	9,148.74	5,493	1,469	7,680	22.01	349
1975	11,012.38	6,509	1,740	9,272	22.50	412
1977	14,646.32	8,380	2,241	12,405	23.54	527
1979	2,065.00	1,141	305	1,760	24.44	72
1981	16,753.06	8,928	2,387	14,366	25.70	559
1982	31,603.62	16,520	4,417	27,187	26.24	1,036
1984	27,487.19	17,531	4,688	22,799	23.53	969
1986	16,462.41	10,187	2,724	13,738	24.27	566
1989	24,459.08	14,340	3,834	20,625	25.68	803
1991	10,795.83	6,093	1,629	9,167	26.57	345
1992	7,004.82	3,886	1,039	5,966	26.87	222
1993	485.00	263	70	415	27.67	15
1994	287.22	152	41	246	27.33	9
1995	846.49	438	117	729	28.04	26
1997	13,420.80	6,635	1,774	11,647	29.04	401
1998	22,258.79	10,740	2,872	19,387	29.42	659
1999	281,659.19	132,436	35,413	246,246	29.76	8,274
2000	62,780.48	28,722	7,680	55,100	30.14	1,828
2008	19,276.12	6,646	1,777	17,499	33.08	529
2014	30,188.89	7,547	2,018	28,171	34.23	823
2015	1,799.88	418	112	1,688	34.45	49
2019	5,714.85	902	241	5,474	34.21	160
	707,345.74	363,046	97,073	610,273		25,720

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 23.70 3.64

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1904	35.14	35	35	
1909	75.00	75	75	
1910	211.00	211	211	
1915	26.50	26	26	
1916	58.95	59	59	
1921	17.70	18	18	
1938	58.48	55	58	
1939	330.37	310	330	
1940	19.39	18	19	
1941	201.71	188	202	
1942	29.19	27	29	
1943	27.92	26	28	
1944	102.32	94	102	
1945	7,165.82	6,544	7,166	
1946	114.97	104	115	
1947	1,278.03	1,156	1,278	
1948	4,414.39	3,973	4,414	
1949	330.99	296	331	
1950	69,383.58	61,821	69,384	
1951	60,361.90	53,501	60,362	
1952	1,628.76	1,436	1,629	
1953	40.65	36	41	
1955	52.58	46	53	
1958	453.12	385	453	
1969	320.54	246	321	
1970	249.81	190	250	
1974	465.47	336	465	
1975	12,797.48	9,103	12,797	
1979	1,684.94	1,126	1,686	(1)
	161,936.70	141,441	161,937	

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 65-R5
NET SALVAGE PERCENT: 0

1939	100.32	99	100			
1941	98.88	97	99			
1944	1,462.95	1,422	1,463			
1947	29.25	28	29			
1948	75.00	72	75			
1949	3,618.25	3,456	3,618			
1950	371.91	354	372			
1960	11.75	11	12			
1964	443.26	387	443			
1982	40,000.00	26,468	32,658	7,342	21.98	334
1992	2,452.89	1,287	1,588	865	29.83	29
1993	12,069.59	6,142	7,578	4,492	31.19	144
1998	306,874.45	132,079	162,966	143,908	36.28	3,967
1999	45,797.43	18,992	23,434	22,364	37.27	600
	413,405.93	190,894	234,435	178,971		5,074

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 35.30 1.23

SURVIVOR CURVE.. 40-SQUARE
NET SALVAGE PERCENT: 0

1969	7,545.31	7,545	7,545			
1970	116.00	116	116			
1971	9,081.22	9,081	9,081			
1972	5,737.14	5,737	5,737			
1975	23,910.35	23,910	23,910			
1994	10,285.35	8,078	8,112	2,173	8.59	253
1997	15,806.90	11,230	11,278	4,529	11.58	391
2011	360,656.23	129,988	130,542	230,115	25.58	8,996
	433,138.50	195,685	196,321	236,818		9,640

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 24.60 2.23

SURVIVOR CURVE.. 37-SQUARE
NET SALVAGE PERCENT: 0

1971	205,250.77	205,251	205,251
	205,250.77	205,251	205,251

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 50-R2
NET SALVAGE PERCENT: 0

1912	8.69	9	9			
1916	1,786.32	1,786	1,786			
1917	363.37	363	363			
1918	25.48	25	25			
1922	42.17	42	42			
1924	5,487.93	5,488	5,488			
1925	1,233.42	1,233	1,233			
1926	63.48	63	63			
1933	19.78	20	20			
1934	57.37	57	57			
1937	19.93	19	20			
1938	3.19	3	3			
1939	84.73	82	85			
1940	531.12	510	531			
1941	1,072.68	1,025	1,073			
1943	570.69	539	571			
1944	332.44	312	332			
1945	146.21	136	146			
1946	12,963.19	12,019	12,963			
1947	3,928.21	3,619	3,928			
1948	9,725.46	8,905	9,725			
1951	265.03	238	265			
1952	12,170.84	10,861	12,171			
1955	2,287.37	2,001	2,287			
1956	44.62	39	45			
1957	445.55	384	446			
1961	568.38	476	568			
1963	70.50	58	70			
1965	42.48	34	42			
1967	4,390.54	3,491	4,391			
1968	94,202.26	74,194	94,202			
1969	10,938.86	8,528	10,939			
1970	25,791.64	19,896	25,792			
1973	40,293.71	30,043	40,294			
1974	8,392.05	6,182	8,392			
1975	1,320.10	960	1,320			
1976	580.66	417	581			
1977	4,755.64	3,367	4,756			
1978	92.88	65	93			
1981	5,347.65	3,565	5,088	260	16.25	16
1983	55,595.37	40,562	55,595			
1984	8,052.76	5,770	8,053			
1986	388.90	270	386	3		
1988	37,073.02	24,832	35,485	1,588	18.47	86
1990	7,473.03	4,843	6,921	552	19.03	29
1991	3,151.27	1,996	2,852	299	19.93	15
1993	14,359.94	8,751	12,505	1,855	20.84	89
1996	5,529.70	3,139	4,486	1,044	22.21	47
1998	350.78	189	270	81	27.00	3
1999	35,898.66	18,775	26,830	9,069	24.12	376
2000	69,766.68	35,462	50,676	19,091	24.57	777
2001	18,927.15	9,289	13,274	5,653	25.35	223
2002	1,771.09	842	1,203	568	25.82	22
2003	4,001.15	1,839	2,628	1,373	26.40	52
2004	380,060.87	168,481	240,763	139,298	26.89	5,180

SURVIVOR CURVE: IOWA 50-R2
NET SALVAGE PERCENT: 0

2005	28,863.63	12,316	17,600	11,264	27.41	411
2006	1,601,556.59	656,158	937,663	663,894	27.98	23,727
2007	203,390.61	79,790	114,021	89,370	28.53	3,132
2008	443,981.80	166,271	237,605	206,377	29.09	7,094
2009	7,446.86	2,653	3,791	3,656	29.72	123
2010	36,199.97	12,221	17,464	18,736	30.27	619
2011	87,605.79	27,911	39,885	47,721	30.83	1,548
2012	35,014.56	10,476	14,970	20,045	31.42	638
2013	191,676.67	53,784	76,859	114,818	31.83	3,607
2015	36,772.48	8,847	12,643	24,129	32.87	734
2020	5,277.70	709	1,013	4,265	34.96	122
2023	104,330.04	6,677	9,541	94,789	35.32	2,684
2024	8,405.08	329	470	7,935	34.65	229
2025	4,990.07	131	188	4,802	34.06	141
	3,688,378.84	1,564,367	2,195,845	1,492,534		51,724

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.90 1.40

SURVIVOR CURVE: IOWA 47-R1.5
NET SALVAGE PERCENT: 0

1905	38.70	39	39			
1906	41.93	42	42			
1922	200.56	201	201			
1926	1,014.93	1,015	1,015			
1934	391.52	383	336	56	1.02	55
1935	128.05	124	109	19	1.36	14
1937	22,511.68	21,544	18,902	3,610	2.02	1,787
1938	145.79	139	122	24	2.40	10
1940	466.25	437	383	83	2.96	28
1941	125.63	117	103	23	3.29	7
1942	572.30	530	465	107	3.45	31
1947	27.71	25	22	6	6.00	1
1948	155,271.77	139,249	122,170	33,102	4.85	6,825
1949	25,739.84	22,947	20,133	5,607	5.10	1,099
1950	2,385.26	2,114	1,855	530	5.35	99
1951	634.60	559	490	145	5.58	26
1952	12,244.29	10,715	9,401	2,843	5.87	484
1953	83,449.39	72,548	63,650	19,799	6.14	3,225
1954	18,704.44	16,154	14,173	4,531	6.41	707
1955	425.47	365	320	105	6.56	16
1956	41,624.95	35,443	31,096	10,529	6.98	1,508
1957	145.59	123	108	38	7.60	5
1958	4,730.84	3,970	3,483	1,248	7.56	165
1959	26,068.85	21,709	19,046	7,023	7.86	894
1960	1,948.58	1,610	1,413	536	8.12	66
1961	920.95	755	662	259	8.35	31
1962	792.58	645	566	227	8.73	26
1963	108.84	88	77	32	8.00	4
1964	203.72	163	143	61	10.17	6
1965	136.24	108	95	41	10.25	4
1966	1,354.68	1,064	933	422	10.05	42
1967	2,557.52	1,989	1,745	813	10.42	78
1969	16,191.83	12,344	10,830	5,362	11.17	480
1970	40,453.75	30,521	26,778	13,676	11.54	1,185
1971	619.95	463	406	214	11.89	18
1972	6,122.50	4,518	3,964	2,158	12.33	175
1973	3,435.73	2,505	2,198	1,238	12.76	97
1974	78,589.33	56,618	49,674	28,915	13.14	2,201
1975	32,041.97	22,791	19,996	12,046	13.57	888
1976	23,406.17	16,429	14,414	8,992	14.01	642
1977	35,101.16	24,309	21,327	13,774	14.45	953
1978	5,618.23	3,836	3,366	2,252	14.91	151
1979	973.61	655	575	399	15.35	26
1981	6,224.98	4,058	3,560	2,665	16.35	163
1982	73,605.99	47,202	41,413	32,193	16.86	1,909
1983	47,132.52	34,586	30,344	16,789	15.39	1,091
1984	5,390.12	3,907	3,428	1,962	15.70	125
1985	100,116.93	71,213	62,479	37,638	16.40	2,295
1986	232,223.84	162,928	142,945	89,279	16.76	5,327
1987	59,947.73	41,454	36,370	23,578	17.14	1,376
1988	29,804.94	20,297	17,808	11,997	17.54	684
1989	64,130.19	42,974	37,703	26,427	17.93	1,474
1990	560,499.17	367,239	322,197	238,302	18.64	12,784
1991	31,960.30	20,570	18,047	13,913	19.06	730
1992	88,750.73	56,055	49,180	39,571	19.49	2,030

SURVIVOR CURVE: IOWA 47-R1.5
NET SALVAGE PERCENT: 0

1993	679,426.85	420,701	369,101	310,326	19.94	15,563
1994	306,019.73	185,540	162,783	143,237	20.40	7,021
1995	82,900.54	49,168	43,137	39,764	20.87	1,905
1996	64,958.21	37,643	33,026	31,932	21.34	1,496
1997	82,354.01	46,571	40,859	41,495	21.83	1,901
1998	182,822.22	100,753	88,396	94,426	22.33	4,229
1999	337,651.23	181,082	158,872	178,779	22.84	7,827
2000	600,376.55	312,796	274,431	325,946	23.37	13,947
2001	17,224.93	8,705	7,637	9,588	23.91	401
2002	829,301.23	407,850	357,827	471,474	24.20	19,482
2003	594,368.52	282,444	247,802	346,567	24.75	14,003
2004	229,810.02	105,322	92,404	137,406	25.31	5,429
2005	62,663.52	27,760	24,355	38,309	25.68	1,492
2006	325,656.73	138,469	121,486	204,171	26.25	7,778
2007	7,253.51	2,965	2,601	4,653	26.59	175
2008	10,850.60	4,233	3,714	7,137	27.24	262
2009	9,456.83	3,525	3,093	6,364	27.67	230
2010	500,623.36	177,521	155,748	344,875	28.06	12,291
2011	111,910.73	37,591	32,980	78,931	28.49	2,770
2012	2,472.89	786	690	1,783	28.76	62
2013	172,160.39	51,304	45,012	127,148	29.25	4,347
2014	3,281,492.57	914,224	802,093	2,479,400	29.57	83,848
2015	67,619.12	17,466	15,324	52,295	29.92	1,748
2016	14,733.81	3,496	3,067	11,667	30.30	385
2017	58,669.93	12,690	11,134	47,536	30.49	1,559
2018	23,260.96	4,520	3,966	19,295	30.77	627
2019	4,053,777.39	697,250	611,731	3,442,046	30.90	111,393
2020	506,922.82	75,532	66,268	440,655	30.95	14,238
2021	44,843.19	5,605	4,917	39,926	30.93	1,291
2023	186,192.81	13,816	12,121	174,072	30.16	5,772
2024	213,746.17	9,961	8,739	205,007	28.98	7,074
2025	312,374.73	9,934	8,716	303,658	27.90	10,884
	15,921,351.22	5,751,609	5,046,330	10,875,021		415,477

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 26.20 2.61

SURVIVOR CURVE: IOWA 60-R2.5
NET SALVAGE PERCENT: 0

1952	1,397.86	1,179	1,398			
1953	416.42	349	416			
1957	250.16	204	250			
1958	11,119.58	9,020	11,120			
1960	8,847.25	7,069	8,847			
1961	18,418.27	14,596	18,418			
1962	908.50	714	908			
1967	458.40	343	458			
1968	5,569.00	4,124	5,569			
1970	588.27	426	588			
1971	6,727.65	4,808	6,728			
1972	393.80	278	394			
1974	1,732.72	1,190	1,719	14	14.00	1
1975	70,183.90	47,503	68,603	1,581	19.28	82
1976	285.91	191	276	10	10.00	1
1980	9,169.57	5,733	8,280	890	22.25	40
1984	2,323.50	1,511	2,182	142	23.67	6
1985	11,116.43	7,099	10,252	864	22.74	38
1986	69,529.45	43,574	62,929	6,600	23.49	281
1987	75,800.20	46,594	67,291	8,509	24.10	353
1988	3,284.80	1,979	2,858	427	25.12	17
1990	8,332.59	4,810	6,947	1,386	26.15	53
1992	6,636.43	3,659	5,284	1,352	27.04	50
1994	9,462.50	4,965	7,170	2,292	28.30	81
1997	26,332.18	12,721	18,372	7,960	30.38	262
1998	23,821.36	11,167	16,127	7,694	31.02	248
1999	29,380.42	13,350	19,280	10,100	31.76	318
2000	131,222.25	57,698	83,327	47,895	32.38	1,479
2004	8,505.41	3,242	4,682	3,823	34.75	110
2006	5,117.06	1,788	2,582	2,535	36.21	70
2007	36,379.00	12,125	17,511	18,868	36.85	512
2008	19,914.99	6,313	9,117	10,798	37.49	288
2011	237,109.98	63,593	91,841	145,269	39.34	3,693
2015	9,627.81	1,916	2,767	6,861	41.84	164
2021	43,463.71	3,877	5,599	37,865	45.08	840
2023	55,223.14	2,778	4,012	51,211	45.64	1,122
2025	642,186.76	12,844	18,549	623,638	44.95	13,874
	1,591,237.23	415,330	592,651	998,586		23,983

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 41.60 1.51

SURVIVOR CURVE: IOWA 30-R2.5
 NET SALVAGE PERCENT: 0

1953	597.38	597	597	
1957	139.38	139	139	
1972	6,119.04	5,999	6,119	
1973	1,697.11	1,649	1,697	
1979	1,203.92	1,108	1,204	
1981	2,893.23	2,621	2,893	
1990	17,052.58	15,039	17,053	
1997	481.23	384	482	(1)
	30,183.87	27,536	30,184	

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 80-R4
NET SALVAGE PERCENT: 0

1874	5.22	5	5
1875	3,511.90	3,512	3,512
1876	399.33	399	399
1877	121.20	121	121
1886	2,347.39	2,347	2,347
1887	351.96	352	352
1888	480.50	480	480
1889	2,276.99	2,277	2,277
1890	836.20	836	836
1891	1,881.69	1,882	1,882
1892	2,891.69	2,892	2,892
1893	668.86	669	669
1894	661.91	662	662
1895	535.27	535	535
1896	10,169.79	10,170	10,170
1897	3,210.24	3,210	3,210
1898	2,342.79	2,343	2,343
1899	2,007.66	2,008	2,008
1900	8,336.26	8,336	8,336
1901	10,739.29	10,739	10,739
1902	14,932.27	14,932	14,932
1903	16,603.95	16,604	16,604
1904	10,314.78	10,292	10,315
1905	13,938.16	13,874	13,938
1906	12,960.19	12,866	12,960
1907	1,885.76	1,867	1,886
1908	4,965.96	4,906	4,966
1909	13,590.56	13,395	13,591
1910	16,291.54	16,013	16,292
1911	11,035.87	10,816	11,036
1912	14,820.96	14,489	14,821
1913	53,756.04	52,412	53,756
1914	38,239.94	37,174	38,240
1915	16,991.79	16,469	16,992
1916	2,952.20	2,853	2,952
1917	4,126.20	3,976	4,126
1918	2,220.14	2,132	2,220
1919	1,209.99	1,158	1,210
1920	411.47	393	411
1921	3,767.72	3,584	3,768
1922	8,718.64	8,265	8,719
1923	11,298.03	10,674	11,298
1924	17,164.02	16,160	17,164
1925	9,370.83	8,792	9,371
1926	10,383.19	9,707	10,383
1927	3,061.15	2,851	3,061
1928	551.84	512	552
1929	2,854.05	2,639	2,854
1930	5,594.99	5,154	5,595
1931	1,764.72	1,620	1,765
1932	322.40	295	322
1933	487.51	444	488
1934	111.11	101	111
1935	4,193.96	3,787	4,194
1936	2,694.95	2,423	2,695

SURVIVOR CURVE: IOWA 80-R4
NET SALVAGE PERCENT: 0

1937	3,195.38	2,859	3,195			
1938	1,543.42	1,375	1,543			
1939	9,142.81	8,104	9,143			
1940	6,368.41	5,615	6,368			
1941	16,191.28	14,200	16,191			
1942	12,089.15	10,543	12,089			
1943	7,232.95	6,271	7,233			
1944	9,080.15	7,824	9,080			
1945	1,644.37	1,408	1,644			
1946	3,526.19	2,998	3,526			
1947	6,519.10	5,503	6,519			
1948	30,372.15	25,444	30,257	115	12.78	9
1949	31,026.03	25,786	30,663	363	13.44	27
1950	12,676.12	10,448	12,424	252	14.00	18
1951	21,259.43	17,374	20,660	599	14.61	41
1952	19,327.09	15,653	18,614	713	15.17	47
1953	35,687.10	28,630	34,045	1,642	15.79	104
1954	22,934.22	18,221	21,667	1,267	16.45	77
1955	32,705.79	25,723	30,588	2,118	17.08	124
1956	20,253.62	15,765	18,747	1,507	17.73	85
1957	20,779.50	16,003	19,030	1,750	18.42	95
1958	77,494.10	59,031	70,196	7,298	19.05	383
1959	113,486.56	85,484	101,653	11,834	19.76	599
1960	31,395.34	23,378	27,800	3,595	20.43	176
1961	58,106.99	42,760	50,848	7,259	21.10	344
1962	39,442.80	28,675	34,099	5,344	21.81	245
1963	71,371.72	51,253	60,947	10,425	22.56	462
1964	72,638.04	51,500	61,241	11,397	23.26	490
1965	93,204.18	65,232	77,570	15,634	24.02	651
1966	46,284.65	31,965	38,011	8,274	24.77	334
1967	10,964.26	7,469	8,882	2,082	25.39	82
1968	39,479.14	26,515	31,530	7,949	26.23	303
1969	34,106.74	22,579	26,850	7,257	27.08	268
1970	38,596.33	25,174	29,936	8,660	27.85	311
1971	51,648.23	33,178	39,453	12,195	28.63	426
1972	22,060.85	13,951	16,590	5,471	29.41	186
1973	7,138.99	4,442	5,282	1,857	30.44	61
1974	92,191.17	56,432	67,106	25,085	31.05	808
1975	2,242.00	1,349	1,604	638	31.90	20
1976	8,345.99	4,935	5,868	2,478	32.61	76
1977	3,873.43	2,249	2,674	1,199	33.31	36
1978	84,242.26	48,028	57,112	27,130	34.39	789
1979	24,464.37	13,682	16,270	8,194	35.32	232
1980	58,135.91	31,881	37,911	20,225	36.12	560
1981	13,989.25	7,519	8,941	5,048	37.12	136
1982	37,555.24	19,768	23,507	14,048	37.87	371
1983	34,607.87	18,789	22,343	12,265	35.76	343
1984	72,247.97	38,299	45,543	26,705	36.73	727
1985	20,647.40	10,766	12,802	7,845	37.18	211
1986	66,854.26	33,995	40,425	26,429	38.08	694
1987	207,799.90	102,986	122,465	85,335	39.11	2,182
1988	144,488.06	69,744	82,936	61,552	40.10	1,535
1989	137,876.65	65,271	77,617	60,260	40.50	1,488
1990	244,291.28	112,472	133,746	110,545	41.51	2,663
1991	66,846.87	29,907	35,564	31,283	42.50	736

SURVIVOR CURVE: IOWA 80-R4
NET SALVAGE PERCENT: 0

1992	23,800.79	10,339	12,295	11,506	43.58	264
1993	63,862.62	26,912	32,002	31,861	44.50	716
1994	44,318.53	18,242	21,692	22,627	44.89	504
1995	74,651.74	29,749	35,376	39,276	45.94	855
1996	39,258.64	15,130	17,992	21,267	46.95	453
1997	65,568.46	24,411	29,028	36,540	47.89	763
1998	15,268.71	5,485	6,522	8,747	48.87	179
1999	37,476.41	12,971	15,424	22,052	49.89	442
2000	50,113.86	16,688	19,844	30,270	50.96	594
2001	502,822.04	162,060	192,713	310,109	51.34	6,040
2002	150,557.33	46,537	55,339	95,218	52.35	1,819
2003	91,370.41	27,037	32,151	59,219	53.35	1,110
2004	52,145.60	14,742	17,530	34,616	54.34	637
2005	145,956.11	39,335	46,775	99,181	55.35	1,792
2006	27,628.07	7,081	8,420	19,208	56.33	341
2007	51,942.05	12,627	15,015	36,927	57.34	644
2008	164,306.52	37,774	44,919	119,388	58.35	2,046
2009	24,419.44	5,292	6,293	18,126	59.43	305
2010	43,311.35	8,814	10,481	32,830	60.35	544
2011	88,326.95	16,809	19,989	68,338	61.34	1,114
2012	13,622.04	2,412	2,868	10,754	62.16	173
2013	15,156.01	2,484	2,954	12,202	63.22	193
2014	36,947.77	5,609	6,670	30,278	63.74	475
2015	36,574.58	5,066	6,024	30,551	64.73	472
2016	34,368.29	4,303	5,117	29,251	65.73	445
2017	85,120.56	9,525	11,327	73,794	66.78	1,105
2018	48,937.81	4,825	5,738	43,200	67.82	637
2022	2,234.93	101	120	2,115	72.93	29
2024	1,509,664.27	28,382	33,750	1,475,914	73.77	20,007
2025	750,406.88	9,155	10,887	739,520	74.27	9,957
	7,129,174.85	2,493,706	2,901,166	4,228,009		74,210

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 57.00 1.04

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1920	182.35	182	182			
1954	2,718.88	2,370	2,719			
1955	5,528.42	4,789	5,528			
1964	8,289.98	6,707	8,290			
1978	486,335.94	330,465	434,998	51,338	19.23	2,670
1980	12,052.02	7,920	10,425	1,627	20.59	79
1982	144,492.45	91,633	120,618	23,874	21.94	1,088
1983	5,454.59	3,679	4,843	612	20.40	30
1984	6,913.86	4,582	6,031	883	21.02	42
1991	6,596.96	3,792	4,991	1,606	25.49	63
1995	19,508.20	10,088	13,279	6,229	28.44	219
1996	34,710.81	17,460	22,983	11,728	29.03	404
1997	18,500.00	9,043	11,904	6,596	29.71	222
1999	1,169.44	534	703	466	31.07	15
2001	7,210.91	3,081	4,056	3,155	32.86	96
2006	93,601.90	32,536	42,828	50,774	36.45	1,393
2007	379,284.68	125,733	165,505	213,780	37.14	5,756
2008	596,565.77	187,023	246,182	350,384	38.14	9,187
2009	205,133.93	60,945	80,223	124,911	38.83	3,217
2011	3,201.69	845	1,112	2,090	40.19	52
2022	56,121.60	3,665	4,825	51,297	48.95	1,048
2023	56,660.30	2,629	3,461	53,199	49.67	1,071
2025	13,470.10	241	317	13,153	50.39	261
	2,163,704.78	909,942	1,196,003	967,702		26,913

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 36.00 1.24

SURVIVOR CURVE: IOWA 55-R2.5
NET SALVAGE PERCENT: 0

1915	2,039.02	2,039	2,039			
1921	15.25	15	15			
1926	674.20	666	674			
1933	308.06	294	308			
1936	213.91	201	214			
1938	94.77	88	95			
1942	4,567.33	4,175	4,567			
1946	33.12	30	33			
1947	467.40	418	467			
1948	4,490.90	3,995	4,491			
1949	21,634.60	19,156	21,635			
1950	8,917.38	7,859	8,917			
1951	12,398.99	10,873	12,399			
1952	9,794.83	8,546	9,795			
1953	13,583.85	11,791	13,584			
1954	4,677.51	4,039	4,678			
1955	3,289.22	2,825	3,289			
1956	3,955.53	3,377	3,956			
1957	809.82	687	810			
1958	773.26	652	773			
1959	6,263.37	5,251	6,263			
1960	7,763.15	6,466	7,763			
1961	4,903.21	4,056	4,903			
1962	720.58	592	721			
1963	5,812.66	4,738	5,813			
1964	14,748.06	11,927	14,748			
1965	359.61	288	360			
1966	4,223.66	3,358	4,224			
1967	206.63	163	207			
1968	11,635.65	9,080	11,636			
1969	3,475.25	2,685	3,475			
1970	1,542.20	1,179	1,542			
1971	8,490.84	6,421	8,491			
1973	13,809.31	10,199	13,809			
1974	1,991.11	1,452	1,991			
1975	635.87	458	636			
1976	1,120.08	795	1,120			
1978	32,091.49	22,132	32,091			
1979	11,321.38	7,688	11,321			
1980	0.01					
1981	27,039.82	17,768	27,040			
1983	2,322.66	1,635	2,323			
1984	35,991.84	24,896	35,992			
1985	12,866.74	8,737	12,867			
1986	2,980.58	1,985	2,981			
1987	20,248.43	13,301	20,248			
1988	1,833.40	1,180	1,833			
1989	6,868.66	4,327	6,869			
1990	443.70	273	444			
1991	1,335.51	804	1,336			
1993	86,082.31	49,669	85,590	492	23.43	21
1994	5,801.95	3,263	5,623	179	25.57	7
1995	1,205.33	660	1,137	68	22.67	3
1997	4,740.41	2,465	4,248	492	25.89	19
1998	5,820.43	2,936	5,059	761	27.18	28

SURVIVOR CURVE: IOWA 55-R2.5
NET SALVAGE PERCENT: 0

1999	42,005.79	20,528	35,374	6,632	27.63	240
2000	2,641.28	1,255	2,163	478	28.12	17
2002	7,408.89	3,279	5,650	1,759	29.32	60
2003	115,950.81	49,383	85,097	30,854	30.22	1,021
2004	74,594.44	30,673	52,856	21,738	30.66	709
2005	44,125.47	17,385	29,958	14,167	31.41	451
2006	23,119.09	8,709	15,007	8,112	32.19	252
2007	223.16	80	138	85	28.33	3
2008	369,366.95	126,730	218,381	150,986	33.35	4,527
2010	119,355.96	36,618	63,100	56,256	34.83	1,615
2011	11,451.64	3,319	5,719	5,733	35.39	162
2014	222,953.81	52,171	89,901	133,053	37.37	3,560
2017	149,925.02	26,507	45,677	104,248	39.21	2,659
2022	106,274.09	8,056	13,881	92,393	41.64	2,219
2023	208.26	11	19	189	37.80	5
	1,729,039.50	699,257	1,100,364	628,675		17,578

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 35.80 1.02

SURVIVOR CURVE: IOWA 45-R2
NET SALVAGE PERCENT: 0

1904	97.85	98	98			
1920	3,071.90	3,072	3,072			
1923	403.86	404	404			
1927	72.55	73	73			
1929	261.39	261	261			
1930	294.47	294	294			
1932	95.28	95	95			
1937	237.51	238	238			
1939	19.57	20	20			
1941	2,931.40	2,931	2,931			
1947	529.70	514	530			
1949	416.19	399	416			
1950	3,524.86	3,356	3,525			
1951	1,022.22	967	1,022			
1952	5,364.58	5,040	5,365			
1953	2,751.48	2,567	2,751			
1954	2,503.83	2,321	2,504			
1955	1,688.17	1,554	1,688			
1956	69.33	63	69			
1958	3,139.09	2,829	3,139			
1959	727.82	651	728			
1964	948.40	817	948			
1969	176.01	145	176			
1974	304.86	239	297	8	8.00	1
1980	5,852.63	4,259	5,293	560	12.17	46
1983	414.15	320	398	16	16.00	1
1984	12,992.80	9,902	12,307	686	12.94	53
1986	483.17	358	445	38	12.67	3
1989	6,269.91	4,430	5,506	764	15.28	50
1990	3,452.63	2,397	2,979	474	15.80	30
1991	4,259.48	2,902	3,607	652	15.90	41
1992	6,560.01	4,384	5,449	1,111	16.58	67
1993	1,344.70	881	1,095	250	16.67	15
1996	4,261.43	2,608	3,241	1,020	18.55	55
1997	548.91	328	408	141	20.14	7
1998	1,713.94	996	1,238	476	19.83	24
2003	3,060.34	1,530	1,901	1,159	22.29	52
2010	5,254.57	1,936	2,406	2,849	26.38	108
2011	7,667.97	2,675	3,325	4,343	26.98	161
	94,788.96	68,854	80,242	14,547		714

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 20.40 0.75

SURVIVOR CURVE: IOWA 80-R2.5
NET SALVAGE PERCENT: 0

1875	6,100.90	6,101	6,101			
1886	2,037.41	1,977	2,037			
1887	12,982.71	12,553	12,983			
1888	5,051.63	4,868	5,052			
1889	1,217.90	1,169	1,218			
1890	7,553.76	7,227	7,554			
1891	11,558.60	11,018	11,559			
1892	8,224.48	7,812	8,224			
1893	14,634.18	13,851	14,634			
1894	1,427.37	1,346	1,427			
1896	2,076.70	1,946	2,077			
1897	9,432.93	8,809	9,433			
1899	20,243.82	18,786	20,244			
1900	77,359.33	71,577	77,359			
1901	28,984.61	26,738	28,985			
1902	152,896.53	140,627	152,897			
1903	18,241.32	16,725	18,241			
1904	412.36	377	412			
1905	32,986.26	30,067	32,986			
1906	71,093.93	64,607	71,094			
1907	6,106.02	5,532	6,106			
1908	14,423.16	13,028	14,423			
1909	21,472.92	19,336	21,473			
1910	8,472.82	7,606	8,473			
1911	17,714.23	15,852	17,714			
1912	20,147.76	17,972	20,148			
1913	2,980.11	2,650	2,980			
1914	52,587.26	46,605	52,587			
1915	25,054.59	22,133	25,055			
1916	22,267.41	19,604	22,267			
1917	65,479.76	57,451	65,480			
1918	1,863.48	1,629	1,863			
1919	19,460.90	16,955	19,461			
1920	886.00	769	886			
1921	20,116.99	17,404	20,117			
1922	12,029.97	10,368	12,030			
1923	2,041.79	1,753	2,042			
1924	78,377.67	67,043	78,378			
1925	136,153.03	116,002	136,153			
1926	129,804.67	110,139	129,805			
1927	43,591.62	36,835	43,592			
1928	13,996.41	11,776	13,996			
1929	32,155.65	26,938	32,156			
1930	42,067.54	35,084	42,068			
1931	28,405.03	23,580	28,405			
1932	10,214.75	8,439	10,215			
1933	8,075.08	6,638	8,075			
1934	4,172.53	3,413	4,173			
1935	51,791.69	42,133	51,792			
1936	43,850.80	35,481	43,851			
1937	55,208.10	44,415	55,109	99	16.50	6
1938	39,596.90	31,673	39,299	298	15.68	19
1939	116,852.12	92,911	115,281	1,571	16.36	96
1940	28,529.59	22,542	27,969	561	17.00	33
1941	38,674.14	30,359	37,669	1,005	17.33	58

SURVIVOR CURVE: IOWA 80-R2.5
NET SALVAGE PERCENT: 0

1942	93,087.59	72,597	90,076	3,012	17.61	171
1943	40,756.02	31,566	39,166	1,590	18.07	88
1944	115,048.36	88,472	109,773	5,275	18.51	285
1945	16,100.51	12,291	15,250	851	18.91	45
1946	22,630.72	17,145	21,273	1,358	19.40	70
1947	61,795.52	46,455	57,640	4,156	19.89	209
1948	693,105.79	516,884	641,335	51,771	20.34	2,545
1949	1,165,060.30	861,702	1,069,175	95,885	20.83	4,603
1950	230,267.73	168,874	209,534	20,734	21.33	972
1951	245,783.50	178,655	221,670	24,114	21.84	1,104
1952	1,237,339.32	891,354	1,105,966	131,373	22.37	5,873
1953	553,849.23	395,238	490,400	63,449	22.91	2,769
1954	758,846.89	536,414	665,567	93,280	23.45	3,978
1955	934,702.60	654,180	811,688	123,015	24.01	5,123
1956	436,265.34	302,280	375,060	61,205	24.57	2,491
1957	1,333,017.35	913,943	1,133,994	199,023	25.15	7,913
1958	875,818.83	594,138	737,189	138,630	25.73	5,388
1959	1,847,432.94	1,239,406	1,537,819	309,614	26.33	11,759
1960	710,245.82	471,163	584,605	125,641	26.93	4,665
1961	1,670,990.96	1,095,752	1,359,577	311,414	27.54	11,308
1962	1,560,684.44	1,011,324	1,254,821	305,863	28.16	10,862
1963	1,812,434.20	1,160,175	1,439,511	372,923	28.79	12,953
1964	1,795,871.26	1,135,206	1,408,531	387,340	29.43	13,161
1965	828,055.43	516,707	641,115	186,940	30.08	6,215
1966	1,267,208.69	780,448	968,357	298,852	30.73	9,725
1967	1,124,284.23	683,003	847,450	276,834	31.40	8,816
1968	1,066,838.12	639,164	793,056	273,782	32.07	8,537
1969	1,224,187.82	723,189	897,312	326,876	32.74	9,984
1970	786,926.08	458,085	568,379	218,547	33.43	6,537
1971	646,715.16	370,891	460,191	186,524	34.12	5,467
1972	1,925,204.33	1,087,259	1,349,039	576,165	34.82	16,547
1973	1,253,948.84	697,045	864,873	389,076	35.53	10,951
1974	852,881.66	466,526	578,852	274,030	36.24	7,562
1975	678,998.95	365,301	453,255	225,744	36.96	6,108
1976	566,416.61	299,566	371,693	194,724	37.69	5,166
1977	1,065,856.41	553,979	687,361	378,495	38.42	9,852
1978	4,810,460.10	2,455,740	3,047,011	1,763,449	39.16	45,032
1979	2,206,454.59	1,105,699	1,371,919	834,536	39.91	20,910
1980	779,548.65	383,343	475,641	303,908	40.66	7,474
1981	2,372,305.88	1,144,045	1,419,498	952,808	41.42	23,004
1982	2,154,214.16	1,018,125	1,263,260	890,954	42.19	21,118
1983	1,049,120.31	556,244	690,171	358,949	37.58	9,552
1984	3,410,364.39	1,779,528	2,207,987	1,202,377	37.95	31,683
1985	2,464,396.50	1,254,871	1,557,008	907,388	38.95	23,296
1986	2,545,886.76	1,274,471	1,581,327	964,560	39.32	24,531
1987	4,114,412.89	2,007,422	2,490,751	1,623,662	40.32	40,269
1988	1,733,477.24	830,162	1,030,041	703,436	40.71	17,279
1989	3,080,438.41	1,447,190	1,795,631	1,284,807	41.10	31,261
1990	7,250,056.65	3,312,551	4,110,117	3,139,940	42.10	74,583
1991	4,295,717.77	1,921,904	2,384,643	1,911,075	42.51	44,956
1992	2,390,621.85	1,038,486	1,288,523	1,102,099	43.51	25,330
1993	3,002,897.29	1,275,330	1,582,392	1,420,505	43.92	32,343
1994	2,066,042.49	856,788	1,063,078	1,002,964	44.34	22,620
1995	2,164,916.08	869,214	1,078,496	1,086,420	45.34	23,962
1996	2,199,904.42	860,603	1,067,811	1,132,093	45.77	24,734

SURVIVOR CURVE: IOWA 80-R2.5
NET SALVAGE PERCENT: 0

1997	3,609,931.82	1,364,193	1,692,651	1,917,281	46.77	40,994
1998	2,312,239.73	849,517	1,054,056	1,258,184	47.21	26,651
1999	2,670,867.30	952,431	1,181,749	1,489,118	47.66	31,245
2000	2,789,894.51	957,213	1,187,682	1,602,213	48.66	32,927
2001	2,230,749.01	740,832	919,203	1,311,546	49.11	26,706
2002	3,069,371.24	984,654	1,221,730	1,847,641	49.58	37,266
2003	2,315,769.12	711,173	882,403	1,433,366	50.58	28,339
2004	3,352,245.60	990,924	1,229,510	2,122,736	51.04	41,590
2005	8,670,131.58	2,443,243	3,031,505	5,638,627	52.04	108,352
2006	7,621,114.55	2,056,939	2,552,190	5,068,925	52.53	96,496
2007	6,839,354.01	1,763,185	2,187,709	4,651,645	53.01	87,750
2008	7,011,547.76	1,722,036	2,136,652	4,874,896	53.50	91,120
2009	4,456,552.61	1,031,692	1,280,094	3,176,459	54.50	58,284
2010	8,515,976.73	1,864,147	2,312,980	6,202,997	55.01	112,761
2011	11,225,896.59	2,314,780	2,872,112	8,353,785	55.51	150,492
2012	8,325,157.66	1,608,420	1,995,681	6,329,477	56.03	112,966
2013	10,485,526.48	1,874,812	2,326,212	8,159,314	57.03	143,071
2014	7,011,177.75	1,160,350	1,439,729	5,571,449	57.55	96,811
2015	5,408,738.43	822,669	1,020,744	4,387,994	58.08	75,551
2016	3,377,371.86	467,428	579,971	2,797,401	58.61	47,729
2017	14,030,830.56	1,748,241	2,169,167	11,861,664	59.15	200,535
2018	2,826,293.64	312,305	387,499	2,438,795	59.70	40,851
2019	11,544,723.82	1,118,684	1,388,030	10,156,694	59.81	169,816
2020	5,069,605.87	417,229	517,686	4,551,920	60.38	75,388
2021	1,531,998.07	104,176	129,259	1,402,739	60.52	23,178
2022	32,468,985.90	1,730,597	2,147,274	30,321,712	60.69	499,616
2023	21,747,307.60	830,747	1,030,766	20,716,542	60.87	340,341
2024	17,293,848.16	397,759	493,528	16,800,320	60.31	278,566
2025	14,547,625.81	221,124	274,364	14,273,262	59.33	240,574
	319,649,866.97	80,459,822	99,703,602	219,946,265		4,079,917

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 53.90 1.28

SURVIVOR CURVE: IOWA 42-S0.5
NET SALVAGE PERCENT: 0

1920	599.44	599	599			
1936	123.65	124	124			
1938	674.76	675	675			
1942	88.86	88	89			
1950	1,394.40	1,295	1,394			
1952	24,987.70	22,816	24,988			
1954	13,489.08	12,102	13,489			
1955	47,181.68	41,947	47,182			
1956	1,212.05	1,068	1,212			
1957	57.14	50	57			
1959	1,690.70	1,449	1,691			
1960	380.66	323	381			
1962	30,076.54	25,050	30,004	73	7.30	10
1963	3,639.29	3,001	3,595	44	7.33	6
1964	42,919.66	35,041	41,971	949	7.72	123
1965	764.19	618	740	24	8.00	3
1971	553.97	419	502	52	10.40	5
1972	197.37	148	177	20	10.00	2
1974	102.75	75	90	13	13.00	1
1975	911.97	658	788	124	11.27	11
1978	1,246,789.41	864,736	1,035,763	211,026	12.87	16,397
1979	2,233.94	1,528	1,830	404	13.47	30
1980	2,207.18	1,488	1,782	425	13.71	31
1981	94,396.13	62,751	75,162	19,234	14.08	1,366
1982	321,615.86	210,581	252,229	69,387	14.50	4,785
1983	34,088.05	26,026	31,173	2,915	13.13	222
1984	50,633.93	38,168	45,717	4,917	13.55	363
1985	5,075.02	3,774	4,520	555	13.88	40
1986	17,937.30	13,152	15,753	2,184	14.37	152
1987	14,602.06	10,603	12,700	1,902	14.52	131
1988	571.27	408	489	82	16.40	5
1989	13,845.72	9,782	11,717	2,129	15.10	141
1990	45,081.61	31,296	37,486	7,596	15.60	487
1991	15,752.11	10,789	12,923	2,829	15.80	179
1992	4,091.08	2,748	3,291	800	16.33	49
1993	35,833.61	23,697	28,384	7,450	16.59	449
1994	26,575.45	17,282	20,700	5,875	16.88	348
1995	62,255.32	39,769	47,634	14,621	17.20	850
1996	244,378.23	153,127	183,412	60,966	17.53	3,478
1997	10,654.04	6,510	7,798	2,856	18.08	158
1998	51,735.24	31,062	37,205	14,530	18.25	796
1999	8,752.28	5,132	6,147	2,605	18.61	140
2000	2,389.63	1,367	1,637	753	18.83	40
2001	455,747.35	253,715	303,895	151,852	19.44	7,811
2002	49,333.60	26,685	31,963	17,371	19.88	874
2003	404,225.78	212,946	255,062	149,164	20.14	7,406
2004	87,639.56	44,670	53,505	34,135	20.60	1,657
2005	1,790,203.91	884,540	1,059,484	730,720	20.90	34,963
2006	456,808.88	218,172	261,322	195,487	21.24	9,204
2007	1,907,380.38	874,725	1,047,727	859,653	21.74	39,542
2008	1,838,363.56	809,983	970,181	868,183	22.11	39,267
2009	1,884,127.28	794,913	952,130	931,997	22.49	41,441
2010	110,266.29	44,371	53,147	57,119	22.90	2,494
2011	1,439,470.91	552,037	661,218	778,253	23.18	33,574
2012	204,021.65	73,897	88,512	115,510	23.62	4,890

SURVIVOR CURVE: IOWA 42-S0.5
NET SALVAGE PERCENT: 0

2013	101,140.44	34,408	41,213	59,927	24.08	2,489
2014	2,702,335.19	860,694	1,030,921	1,671,414	24.43	68,416
2015	76,770.95	22,709	27,200	49,571	24.80	1,999
2017	86,639.72	21,435	25,674	60,966	25.61	2,381
2019	161,755.40	31,558	37,800	123,955	26.48	4,681
2020	4,038.76	678	812	3,227	26.89	120
2021	206,208.56	28,684	34,357	171,852	27.33	6,288
2022	45,953.47	5,055	6,055	39,898	27.65	1,443
2023	2,423,852.64	192,212	230,228	2,193,625	28.07	78,148
2024	56,208.85	2,676	3,205	53,004	28.34	1,870
2025	720,297.64	22,473	26,918	693,379	28.49	24,338
	19,695,331.10	7,726,558	9,247,729	10,447,602		446,094

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 23.40 2.26

SURVIVOR CURVE: IOWA 48-R1.5
NET SALVAGE PERCENT: 0

1905	126.97	127	127			
1916	12.64	13	13			
1917	15.92	16	16			
1918	7.96	8	8			
1919	26.69	27	27			
1920	119.00	119	119			
1925	7.96	8	8			
1926	134.93	135	135			
1927	64.72	65	65			
1928	18.28	18	18			
1929	365.67	365	366			
1930	197.26	196	197			
1931	253.94	250	254			
1934	42.92	41	43			
1935	1,542.11	1,477	1,542			
1936	970.97	923	971			
1937	1,136.80	1,073	1,137			
1940	1,352.12	1,254	1,352			
1941	94.25	87	94			
1942	658.51	604	659			
1943	319.19	291	319			
1945	9.18	8	9			
1946	135.98	122	136			
1947	726.26	649	726			
1948	1,107.07	983	1,107			
1949	19,077.32	16,844	19,077			
1950	22,709.05	19,927	22,709			
1951	1,059.19	923	1,059			
1952	7,710.47	6,679	7,710			
1953	23,558.94	20,271	23,559			
1954	12,270.89	10,486	12,271			
1955	24,561.75	20,847	24,562			
1956	11,206.72	9,444	11,207			
1957	41,323.67	34,566	41,324			
1958	43,340.96	35,982	43,341			
1959	7,700.29	6,345	7,700			
1960	733.47	600	733			
1961	13,028.24	10,564	12,897	131	9.36	14
1962	20,185.94	16,233	19,818	368	9.44	39
1963	5,845.08	4,660	5,689	156	9.75	16
1964	91,525.82	72,344	88,321	3,205	10.05	319
1965	39,336.43	30,813	37,618	1,718	10.41	165
1966	25,428.25	19,733	24,091	1,337	10.78	124
1967	36,283.67	27,885	34,043	2,241	11.09	202
1968	233,560.15	177,700	216,944	16,616	11.48	1,447
1969	107,019.30	80,577	98,372	8,647	11.86	729
1970	12,906.53	9,615	11,738	1,169	12.18	96
1971	70,797.34	52,154	63,672	7,125	12.63	564
1972	18,466.01	13,445	16,414	2,052	13.07	157
1973	28,264.05	20,338	24,829	3,435	13.47	255
1974	38,616.91	27,442	33,502	5,115	13.90	368
1975	11,750.41	8,242	10,062	1,688	14.31	118
1976	29,464.67	20,392	24,895	4,570	14.79	309
1977	16,123.56	11,004	13,434	2,690	15.20	177
1978	225,570.38	151,743	185,254	40,316	15.71	2,566

SURVIVOR CURVE: IOWA 48-R1.5
NET SALVAGE PERCENT: 0

1979	210,170.01	139,282	170,041	40,129	16.19	2,479
1980	227,991.93	148,765	181,619	46,373	16.68	2,780
1981	292,723.83	187,952	229,460	63,264	17.18	3,682
1982	162,570.63	102,623	125,286	37,285	17.70	2,106
1983	160,161.66	116,165	141,819	18,343	16.06	1,142
1984	132,746.48	94,569	115,454	17,292	16.72	1,034
1985	161,390.22	113,490	138,553	22,837	17.06	1,339
1986	66,163.09	45,897	56,033	10,130	17.41	582
1987	388,373.82	265,570	324,219	64,155	17.76	3,612
1988	75,022.16	50,250	61,347	13,675	18.45	741
1989	226,889.07	149,543	182,568	44,321	18.83	2,354
1990	167,287.55	108,419	132,362	34,926	19.23	1,816
1991	378,694.24	241,115	294,363	84,331	19.64	4,294
1992	164,917.72	103,057	125,816	39,102	20.06	1,949
1993	671,967.93	409,497	499,931	172,037	20.78	8,279
1994	294,240.59	175,632	214,419	79,822	21.22	3,762
1995	346,133.62	202,142	246,784	99,350	21.67	4,585
1996	145,006.62	82,755	101,031	43,976	22.13	1,987
1997	678,213.78	377,765	461,191	217,023	22.60	9,603
1998	739,521.79	401,412	490,061	249,461	23.09	10,804
1999	273,882.18	144,692	176,646	97,236	23.58	4,124
2000	275,670.93	141,529	172,785	102,886	24.09	4,271
2001	273,415.07	136,188	166,264	107,151	24.60	4,356
2002	1,110,638.23	535,772	654,093	456,545	25.13	18,167
2003	659,308.58	308,886	377,101	282,208	25.43	11,097
2004	1,663,495.04	751,733	917,747	745,748	25.98	28,705
2005	191,503.08	83,285	101,678	89,825	26.53	3,386
2006	1,231,968.52	516,688	630,795	601,174	26.88	22,365
2007	1,213,524.59	487,230	594,831	618,694	27.45	22,539
2008	516,788.93	198,912	242,840	273,949	27.83	9,844
2009	588,778.00	216,494	264,305	324,473	28.23	11,494
2010	1,168,477.85	407,098	497,002	671,476	28.83	23,291
2011	1,558,890.88	514,590	628,233	930,658	29.25	31,817
2012	2,434,697.01	761,086	929,166	1,505,531	29.50	51,035
2013	1,161,379.48	340,284	415,433	745,946	29.96	24,898
2014	1,492,794.43	409,026	499,356	993,438	30.25	32,841
2015	1,760,297.12	447,468	546,288	1,214,009	30.57	39,712
2016	1,961,514.64	458,014	559,163	1,402,352	30.91	45,369
2017	10,909,118.35	2,322,551	2,835,469	8,073,649	31.11	259,519
2018	437,939.03	83,822	102,333	335,606	31.34	10,709
2019	450,168.81	76,259	93,100	357,069	31.46	11,350
2020	552,182.12	80,729	98,558	453,624	31.62	14,346
2021	162,462.02	19,950	24,356	138,106	31.55	4,377
2022	897,880.97	88,351	107,863	790,018	31.31	25,232
2023	5,238,556.12	382,415	466,868	4,771,688	30.70	155,430
2024	537,694.51	24,519	29,934	507,761	29.64	17,131
2025	497,650.04	15,527	18,956	478,694	28.49	16,802
	46,159,736.03	14,415,655	17,589,813	28,569,923		980,802

SURVIVOR CURVE: IOWA 35-R1
NET SALVAGE PERCENT: 0

1953	2,740.74	2,741	2,741			
1954	35.60	36	36			
1955	351.02	351	351			
1961	756.22	714	756			
1965	3,429.65	3,119	3,430			
1968	1,634.56	1,444	1,635			
1969	2,732.34	2,389	2,732			
1970	2,520.94	2,181	2,521			
1974	578.55	478	579			
1975	236.10	193	236			
1976	1,215.86	981	1,216			
1979	17,650.83	13,667	17,532	119	7.93	15
1982	4,504.21	3,334	4,277	227	9.08	25
1986	2,135.76	1,709	2,136			
1987	256.35	203	256			
1989	26,482.55	20,349	26,104	379	10.83	35
1990	14.84	11	14	1		
1991	4,856.79	3,627	4,653	204	12.00	17
1992	8,073.07	5,935	7,614	459	12.08	38
1993	12,151.68	8,784	11,268	884	12.45	71
1994	35,464.43	25,180	32,302	3,162	12.85	246
1995	17,491.87	12,183	15,629	1,863	13.21	141
1996	17,646.12	12,043	15,449	2,197	13.73	160
1997	108,647.75	72,555	93,075	15,573	14.14	1,101
1998	56,483.33	36,855	47,279	9,204	14.61	630
1999	28,011.20	17,908	22,973	5,038	14.91	338
2000	86,140.66	53,640	68,811	17,330	15.40	1,125
2002	78,749.24	46,470	59,613	19,136	16.27	1,176
2003	46,378.35	26,617	34,145	12,233	16.64	735
2004	24,561.39	13,676	17,544	7,017	17.03	412
2008	111,157.57	53,433	68,545	42,613	18.82	2,264
2011	19,861.33	8,332	10,688	9,173	19.94	460
2013	5,239.33	1,971	2,528	2,711	20.54	132
2014	4,900.00	1,729	2,218	2,682	20.95	128
2015	553,624.92	182,253	233,799	319,826	21.23	15,065
2016	295,458.11	90,144	115,639	179,819	21.45	8,383
2017	631,609.62	177,040	227,111	404,499	21.61	18,718
2018	241,146.06	61,155	78,451	162,695	21.82	7,456
2019	4,636.30	1,050	1,347	3,289	21.93	150
2021	160,434.13	27,001	34,637	125,797	21.83	5,763
2023	30,785.92	3,177	4,076	26,710	21.00	1,272
	2,650,785.29	996,658	1,275,946	1,374,839		66,056

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 20.80 2.49

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1876	535.18	535	535			
1881	11.59	12	12			
1885	352.00	352	352			
1887	302.11	302	302			
1888	303.80	304	304			
1889	1,640.73	1,641	1,641			
1890	466.90	467	467			
1891	254.53	255	255			
1892	366.62	367	367			
1894	1,419.69	1,420	1,420			
1895	115.83	116	116			
1896	12.76	13	13			
1897	541.59	542	542			
1898	187.32	187	187			
1899	1,358.95	1,359	1,359			
1900	1,487.01	1,487	1,487			
1901	57,750.82	57,751	57,751			
1902	20,985.66	20,986	20,986			
1903	55,757.91	55,758	55,758			
1904	6,974.52	6,975	6,975			
1905	20,820.07	20,820	20,820			
1906	12,696.56	12,697	12,697			
1907	3,991.47	3,991	3,991			
1908	3,682.91	3,683	3,683			
1909	2,061.23	2,061	2,061			
1910	3,165.76	3,166	3,166			
1911	6,116.69	6,103	6,117			
1912	12,423.56	12,369	12,424			
1913	7,267.85	7,222	7,268			
1914	8,650.32	8,578	8,650			
1915	16,578.55	16,393	16,579			
1916	3,836.99	3,784	3,837			
1917	3,163.19	3,111	3,163			
1918	1,448.90	1,421	1,449			
1919	1,808.38	1,768	1,808			
1920	5,435.30	5,300	5,435			
1921	3,077.86	2,992	3,078			
1922	6,721.09	6,512	6,721			
1923	7,711.85	7,450	7,712			
1924	3,514.28	3,384	3,514			
1925	4,311.45	4,137	4,311			
1926	2,267.36	2,168	2,263	4	4.00	1
1927	3,524.17	3,358	3,505	19	3.80	5
1928	1,429.17	1,357	1,416	13	4.33	3
1929	3,436.00	3,251	3,393	43	3.91	11
1930	5,769.25	5,438	5,676	93	4.23	22
1931	4,799.02	4,507	4,704	95	4.52	21
1932	2,986.25	2,794	2,916	70	4.67	15
1933	884.91	825	861	24	4.80	5
1934	985.72	915	955	31	5.17	6
1935	975.62	902	942	34	5.67	6
1936	3,380.64	3,114	3,250	131	5.95	22
1937	4,752.29	4,359	4,550	202	6.12	33
1938	3,461.64	3,163	3,302	160	6.40	25
1939	8,948.17	8,139	8,496	452	6.75	67

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1940	12,537.47	11,354	11,851	686	7.07	97
1941	25,958.06	23,400	24,425	1,533	7.41	207
1942	6,103.48	5,476	5,716	387	7.74	50
1943	1,382.06	1,234	1,288	94	7.83	12
1944	3,132.18	2,782	2,904	228	8.44	27
1945	16,033.54	14,165	14,786	1,248	8.73	143
1946	8,719.44	7,660	7,996	723	9.15	79
1947	11,572.43	10,107	10,550	1,022	9.46	108
1948	11,368.64	9,867	10,299	1,070	9.91	108
1949	10,266.47	8,851	9,239	1,027	10.37	99
1950	29,719.87	25,448	26,563	3,157	10.77	293
1951	39,412.01	33,500	34,968	4,444	11.25	395
1952	23,927.58	20,182	21,066	2,862	11.73	244
1953	16,401.19	13,722	14,323	2,078	12.22	170
1954	22,305.55	18,505	19,316	2,990	12.78	234
1955	27,554.94	22,654	23,646	3,909	13.34	293
1956	27,566.98	22,454	23,438	4,129	13.90	297
1957	24,760.10	19,970	20,845	3,915	14.50	270
1958	95,103.66	75,931	79,257	15,847	15.12	1,048
1959	31,478.89	24,868	25,957	5,522	15.73	351
1960	27,074.73	21,154	22,081	4,994	16.37	305
1961	56,566.83	43,700	45,614	10,953	17.06	642
1962	22,814.68	17,421	18,184	4,631	17.74	261
1963	32,627.88	24,623	25,702	6,926	18.42	376
1964	37,595.96	28,027	29,255	8,341	19.09	437
1965	37,095.20	27,307	28,503	8,592	19.80	434
1966	32,185.46	23,388	24,413	7,772	20.51	379
1967	56,370.01	40,429	42,200	14,170	21.21	668
1968	51,176.17	36,206	37,792	13,384	21.94	610
1969	31,060.18	21,672	22,621	8,439	22.69	372
1970	37,964.75	26,109	27,253	10,712	23.44	457
1971	41,657.49	28,227	29,464	12,193	24.19	504
1972	26,813.77	17,897	18,681	8,133	24.95	326
1973	51,687.84	33,963	35,451	16,237	25.73	631
1974	43,648.85	28,226	29,463	14,186	26.52	535
1975	26,973.73	17,155	17,907	9,067	27.31	332
1976	23,771.53	14,865	15,516	8,256	28.08	294
1977	29,833.89	18,330	19,133	10,701	28.92	370
1978	40,220.45	24,272	25,335	14,885	29.71	501
1979	59,805.49	35,421	36,973	22,832	30.56	747
1980	61,795.41	35,907	37,480	24,315	31.41	774
1981	80,440.05	45,819	47,826	32,614	32.29	1,010
1982	66,323.68	37,017	38,639	27,685	33.16	835
1983	75,703.69	43,673	45,586	30,118	31.11	968
1984	49,386.28	27,819	29,038	20,348	32.09	634
1985	56,685.75	31,160	32,525	24,161	33.10	730
1986	60,050.04	32,427	33,848	26,202	33.59	780
1987	96,831.16	50,962	53,195	43,636	34.58	1,262
1988	101,680.52	52,121	54,404	47,277	35.57	1,329
1989	99,008.25	49,762	51,942	47,066	36.04	1,306
1990	116,992.90	57,186	59,691	57,302	37.04	1,547
1991	88,606.59	42,088	43,932	44,675	38.05	1,174
1992	159,574.41	73,596	76,820	82,754	39.03	2,120
1993	145,170.76	65,414	68,280	76,891	39.53	1,945
1994	116,906.29	51,053	53,290	63,616	40.52	1,570

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1995	95,713.43	40,468	42,241	53,472	41.52	1,288
1996	49,135.34	20,091	20,971	28,164	42.54	662
1997	160,911.05	63,560	66,345	94,566	43.54	2,172
1998	78,529.79	30,140	31,460	47,070	43.99	1,070
1999	136,298.12	50,403	52,611	83,687	45.02	1,859
2000	121,853.66	43,356	45,255	76,599	46.01	1,665
2001	389,701.31	133,200	139,035	250,666	47.01	5,332
2002	248,302.90	81,394	84,960	163,343	48.01	3,402
2003	535,657.43	168,089	175,453	360,204	49.01	7,350
2004	237,666.40	71,252	74,374	163,292	50.01	3,265
2005	320,451.32	92,258	96,300	224,151	50.50	4,439
2006	499,428.35	136,743	142,734	356,694	51.50	6,926
2007	209,830.34	54,493	56,880	152,950	52.51	2,913
2008	111,669.23	27,426	28,627	83,042	53.51	1,552
2009	48,393.49	11,203	11,694	36,699	54.53	673
2010	45,085.01	9,801	10,230	34,855	55.50	628
2011	249,454.99	50,714	52,936	196,519	56.50	3,478
2012	165,726.91	31,356	32,730	132,997	57.50	2,313
2013	30,336.74	5,312	5,545	24,792	58.47	424
2014	1,150.00	185	193	957	59.81	16
2015	12,300.58	1,807	1,886	10,415	60.55	172
2016	107,526.45	14,280	14,906	92,620	61.50	1,506
2017	203,905.99	24,204	25,264	178,642	62.51	2,858
2018	2,388.00	251	262	2,126	62.53	34
2020	12,955.85	996	1,040	11,916	65.11	183
2024	3,724,469.78	74,862	78,141	3,646,329	69.01	52,838
2025	1,038,567.42	13,501	14,092	1,024,475	69.51	14,739
	11,761,725.08	3,179,932	3,308,177	8,453,548		155,689

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 54.30 1.32

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1903	87.72	88	88
1908	20.47	20	20
1912	10.00	10	10
1913	1,422.06	1,375	1,422
1914	1,717.52	1,653	1,718
1915	2,107.56	2,020	2,108
1917	1,070.23	1,017	1,070
1918	2,698.49	2,552	2,698
1919	854.01	804	854
1920	370.59	347	371
1921	1,829.27	1,706	1,829
1922	1,426.94	1,324	1,427
1923	637.00	588	637
1924	663.38	610	663
1925	3,855.98	3,527	3,856
1926	1,375.16	1,252	1,375
1927	3,786.18	3,429	3,786
1928	5,264.61	4,745	5,265
1929	3,155.48	2,830	3,155
1930	4,216.25	3,762	4,216
1931	734.91	652	735
1932	2,011.65	1,777	2,012
1933	407.10	358	407
1934	328.83	287	329
1935	1,806.58	1,571	1,807
1936	3,855.28	3,335	3,855
1937	4,332.14	3,726	4,332
1938	2,344.84	2,006	2,345
1939	1,822.26	1,550	1,822
1940	1,832.44	1,550	1,832
1941	2,222.34	1,869	2,222
1942	11,328.05	9,469	11,328
1943	2,202.07	1,829	2,202
1944	6,853.68	5,658	6,854
1945	1,482.24	1,216	1,482
1946	11,176.62	9,106	11,177
1947	10,642.25	8,614	10,642
1948	26,875.66	21,600	26,876
1949	31,849.55	25,416	31,850
1950	35,333.67	27,990	35,334
1951	51,412.60	40,418	51,413
1952	85,027.11	66,321	85,027
1953	72,782.06	56,322	72,782
1954	23,109.99	17,734	23,110
1955	50,814.38	38,666	50,814
1956	38,313.10	28,900	38,313
1957	42,625.66	31,864	42,626
1958	79,738.28	59,056	79,738
1959	74,800.04	54,869	74,800
1960	20,283.81	14,735	20,284
1961	66,373.89	47,728	66,374
1962	9,913.67	7,054	9,914
1963	36,973.77	26,030	36,974

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1964	36,775.68	25,607	36,776
1965	38,020.47	26,170	38,020
1966	36,383.95	24,752	36,384
1967	21,747.56	14,618	21,748
1968	19,797.16	13,142	19,797
1969	17,892.97	11,727	17,893
1970	22,571.86	14,599	22,572
1971	25,577.92	16,319	25,578
1972	35,114.52	22,095	35,115
1973	44,353.01	27,506	44,353
1974	54,672.82	33,409	54,673
1975	74,150.48	44,627	74,150
1976	25,625.76	15,182	25,626
1977	10,532.04	6,139	10,532
1978	14,019.66	8,036	14,020
1979	64,148.10	36,150	64,148
1980	49,197.48	27,233	49,197
1981	113,229.81	61,545	113,230
1982	25,662.51	13,688	25,663
1983	182,580.42	111,520	182,580
1984	52,714.14	31,655	52,714
1985	45,866.77	27,066	45,867
1986	32,346.01	18,741	32,346
1987	28,282.12	16,081	28,282
1988	38,939.15	21,709	38,939
1989	64,518.22	35,240	64,518
1990	34,385.96	18,390	34,386
1991	32,469.00	16,985	32,469
1992	13,134.65	6,716	13,135
1993	41,418.29	20,676	41,418
1994	35,394.00	17,237	35,394
1995	67,996.39	32,264	67,996
1996	11,779.78	5,440	11,780
1997	22,604.71	10,150	22,605
1998	42,145.24	18,489	42,145
1999	35,600.82	15,141	35,601
2000	45,105.04	18,574	45,105
2002	2,463.00	946	2,463
2003	2,151.21	796	2,151
2004	46,964.39	16,799	46,964
2005	66,156.46	22,692	66,156
2006	176,972.15	58,065	176,972
2007	5,788.36	1,812	5,788
2008	282,942.23	84,769	282,942
2009	2,111.91	600	2,112
2010	47,741.75	12,881	47,742
2011	53,720.27	13,629	53,720
2012	56,631.58	13,524	56,632
2013	168,150.95	37,380	168,151
2014	22,526.04	4,654	22,526
2015	439,111.72	83,695	439,112
2017	6,500.00	1,023	6,500
2018	147,693.96	20,707	147,694
2019	13,618.75	1,678	13,619

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

2023	136,820.88	6,882	106,949	29,872	45.68	654
2024	26,993.62	829	12,883	14,111	44.66	316
	4,109,993.12	1,920,914	4,066,011	43,983		970

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 45.30 0.02

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1905	18.93	19	19			
1906	10.01	10	10			
1907	41.85	41	42			
1909	16.66	16	17			
1910	5.15	5	5			
1911	36.07	35	36			
1912	10.16	10	10			
1913	33.39	32	33			
1914	13.64	13	14			
1915	7.21	7	7			
1917	11.97	11	12			
1922	15.26	14	15			
1925	2.50	2	2			
1927	26.62	24	27			
1928	617.16	556	617			
1929	5.35	5	5			
1930	19.62	18	20			
1933	1.25	1	1			
1938	156.55	134	157			
1939	541.21	460	541			
1940	225.24	191	225			
1941	132.11	111	132			
1942	1,264.96	1,057	1,265			
1943	140.00	116	140			
1947	28.90	23	29			
1948	119.32	96	119			
1949	954.21	761	954			
1950	318.52	252	319			
1951	1,225.25	963	1,225			
1952	1,723.65	1,344	1,724			
1953	1,838.37	1,423	1,838			
1954	1,808.65	1,388	1,809			
1955	4,119.06	3,134	4,119			
1956	2,972.20	2,242	2,972			
1957	599.42	448	599			
1958	2,092.84	1,550	2,093			
1959	1,105.18	811	1,105			
1960	1,903.13	1,383	1,903			
1961	655.47	471	655			
1962	3,127.73	2,226	3,128			
1963	2,267.09	1,596	2,267			
1964	1,006.92	701	1,007			
1965	4,910.23	3,380	4,890	20	20.00	1
1966	1,977.05	1,345	1,946	31	31.00	1
1967	4,007.26	2,693	3,896	111	22.20	5
1968	2,402.78	1,595	2,308	95	23.75	4
1969	2,104.83	1,379	1,995	110	22.00	5
1970	7,723.63	4,995	7,227	497	22.59	22
1971	3,384.07	2,159	3,124	260	23.64	11
1972	5,978.05	3,762	5,443	535	24.32	22
1973	4,798.08	2,976	4,306	492	24.60	20
1974	1,207.86	738	1,068	140	23.33	6
1976	8,495.73	5,033	7,282	1,214	26.39	46
1977	2,075.92	1,210	1,751	325	27.08	12
1978	1,584.85	908	1,314	271	27.10	10

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1979	3,055.69	1,722	2,492	564	28.20	20
1980	15,755.65	8,721	12,618	3,138	29.06	108
1981	1,735.37	943	1,364	371	28.54	13
1982	7,477.67	3,988	5,770	1,708	30.50	56
1983	9,556.02	5,837	8,445	1,111	27.10	41
1984	10,545.06	6,332	9,162	1,383	27.66	50
1985	7,845.56	4,630	6,699	1,147	27.98	41
1986	13,834.09	8,015	11,597	2,237	28.68	78
1987	16,371.96	9,309	13,469	2,903	29.03	100
1988	24,793.91	13,823	20,000	4,794	29.78	161
1989	20,057.78	10,956	15,852	4,206	30.26	139
1990	10,248.72	5,481	7,930	2,319	30.92	75
1991	24,384.92	12,756	18,456	5,929	31.37	189
1992	32,716.16	16,728	24,203	8,513	31.88	267
1993	43,540.71	21,736	31,449	12,092	32.51	372
1994	13,356.35	6,505	9,412	3,944	33.14	119
1995	25,503.16	12,101	17,509	7,994	33.73	237
1996	17,361.84	8,018	11,601	5,761	34.29	168
1997	12,560.71	5,640	8,160	4,401	34.93	126
1998	19,747.96	8,663	12,534	7,214	35.02	206
1999	38,323.29	16,299	23,583	14,740	35.69	413
2000	17,222.31	7,092	10,261	6,961	36.26	192
2001	25,491.47	10,146	14,680	10,811	36.90	293
2002	30,061.47	11,544	16,703	13,358	37.52	356
2003	43,162.95	15,966	23,101	20,062	38.21	525
2004	46,337.65	16,575	23,982	22,356	38.48	581
2005	49,805.93	17,083	24,717	25,089	39.14	641
2006	39,229.62	12,871	18,623	20,607	39.78	518
2007	26,168.97	8,194	11,856	14,313	40.43	354
2008	38,476.67	11,528	16,680	21,797	40.74	535
2009	31,291.92	8,887	12,858	18,434	41.42	445
2010	56,436.18	15,226	22,030	34,406	41.75	824
2011	49,784.92	12,630	18,274	31,511	42.41	743
2012	115,135.23	27,494	39,781	75,354	42.77	1,762
2013	67,646.44	15,038	21,758	45,888	43.45	1,056
2014	7,717.64	1,594	2,306	5,412	44.00	123
2015	2,009.53	383	554	1,456	44.12	33
2016	4,884.04	851	1,232	3,652	44.54	82
2021	3,388.02	296	428	2,960	46.25	64
	1,104,892.66	437,474	629,896	474,997		12,271

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 38.70 1.11

PITTSBURGH DIV AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2035
 NET SALVAGE PERCENT: 0

1905	13,481.44	12,825	11,562	1,919	6.15	312
1919	1,926.91	1,805	1,627	300	7.14	42
1922	400.82	373	336	65	8.13	8
1927	750.59	694	626	125	7.81	16
1936	1,676.98	1,529	1,378	299	8.54	35
1943	872.73	791	713	160	8.42	19
1945	569.96	513	462	107	8.92	12
1948	237.87	214	193	45	9.00	5
1949	692.13	624	563	130	8.13	16
1950	1,244,916.21	1,117,312	1,007,283	237,634	8.61	27,600
1951	1,203.94	1,075	969	235	9.04	26
1952	3,847.45	3,446	3,107	741	8.52	87
1953	898.12	800	721	177	8.85	20
1958	891.52	787	710	182	9.10	20
1960	1,158.63	1,023	922	236	8.74	27
1961	1,045.63	916	826	220	9.17	24
1962	1,085.17	950	856	229	9.16	25
1963	660.66	577	520	140	8.75	16
1964	174,029.67	151,771	136,825	37,205	9.01	4,129
1965	19,001.79	16,532	14,904	4,098	9.03	454
1966	4,722.91	4,097	3,694	1,029	9.11	113
1967	3,887.28	3,361	3,030	857	9.12	94
1968	11,176.28	9,625	8,677	2,499	9.26	270
1969	31.95	28	25	7	7.00	1
1970	2,279.85	1,958	1,765	515	9.04	57
1971	21,739.76	18,572	16,743	4,997	9.29	538
1972	12,280.95	10,497	9,463	2,818	9.09	310
1973	11,646.34	9,951	8,971	2,675	8.92	300
1974	1,371.05	1,163	1,048	323	9.23	35
1975	6,993.01	5,923	5,340	1,653	9.13	181
1976	2,273.20	1,921	1,732	541	9.02	60
1977	5,746.85	4,841	4,364	1,383	9.04	153
1979	12,619.29	10,543	9,505	3,115	9.13	341
1981	3,057.38	2,539	2,289	768	9.04	85
1982	71,564.28	59,033	53,220	18,345	9.22	1,990
1983	35,103.99	28,887	26,042	9,062	9.13	993
1984	13,103.50	10,691	9,638	3,465	9.34	371
1985	60,178.50	48,889	44,075	16,104	9.33	1,726
1986	231,569.14	188,034	169,517	62,052	9.13	6,796
1987	43,822.14	35,356	31,874	11,948	9.20	1,299
1988	247,922.43	198,511	178,962	68,960	9.31	7,407
1989	21,016.17	16,760	15,110	5,907	9.24	639
1990	901,807.59	715,404	644,953	256,854	9.23	27,828
1991	7,921.08	6,243	5,628	2,293	9.25	248
1992	10,029.97	7,843	7,071	2,959	9.33	317
1993	27,940.33	21,738	19,597	8,343	9.25	902
1994	48,213.43	37,259	33,590	14,624	9.24	1,583
1995	24,537.74	18,808	16,956	7,582	9.27	818
1996	20,252.76	15,372	13,858	6,395	9.34	685
1997	48,138.54	36,248	32,678	15,460	9.32	1,659
1998	372.78	278	251	122	9.38	13

PITTSBURGH DIV AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2035
 NET SALVAGE PERCENT: 0

1999	142.95	106	96	47	9.40	5
2000	169,420.27	124,016	111,803	57,617	9.31	6,189
2001	1,320,721.95	954,486	860,491	460,231	9.37	49,118
2002	185,810.88	132,706	119,638	66,173	9.37	7,062
2003	865,421.13	611,074	550,897	314,524	9.33	33,711
2004	699,652.93	486,958	439,004	260,649	9.35	27,877
2005	85,481.43	58,640	52,865	32,616	9.35	3,488
2006	650,399.85	439,475	396,197	254,203	9.32	27,275
2007	24,300.00	16,111	14,524	9,776	9.36	1,044
2008	162,468.30	105,539	95,146	67,322	9.39	7,170
2009	166,927.04	106,333	95,862	71,065	9.36	7,592
2011	593,421.97	359,317	323,933	269,489	9.39	28,700
2012	270,229.11	159,165	143,491	126,738	9.36	13,540
2013	3,452.91	1,968	1,774	1,679	9.38	179
2014	63,070.43	34,632	31,222	31,849	9.37	3,399
2016	253,903.20	127,206	114,679	139,224	9.38	14,843
2017	192,263.18	90,940	81,985	110,279	9.38	11,757
2018	1,706,003.98	754,054	679,797	1,026,207	9.36	109,638
2019	783,485.14	318,722	287,335	496,150	9.36	53,007
2020	30,335.80	11,124	10,029	20,307	9.35	2,172
2021	410,715.23	131,881	118,894	291,821	9.34	31,244
	12,020,296.37	7,869,383	7,094,431	4,925,865		529,715

GROVE CITY - LEASED
 FULLY ACCRUED
 NET SALVAGE PERCENT: 0

1982	20,774.82	20,775	20,775
1985	335.13	335	335
1987	6,381.82	6,382	6,382
1989	1,068.50	1,068	1,069
1997	8,903.57	8,904	8,904
	37,463.84	37,464	37,464

NORTHERN DIVISION H.Q. - KISKI
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2037
 NET SALVAGE PERCENT: 0

1977	574,656.36	467,425	421,246	153,410	11.11	13,808
1978	6,521.93	5,288	4,766	1,756	11.04	159
1979	9,349.20	7,550	6,804	2,545	11.07	230
1981	16,129.01	12,895	11,621	4,508	11.13	405
1983	3,996.10	3,170	2,857	1,139	11.06	103
1984	8,494.75	6,720	6,056	2,439	10.94	223
1985	30,698.24	24,070	21,692	9,006	11.13	809
1986	11,922.75	9,305	8,386	3,537	11.09	319
1987	23,108.71	17,932	16,160	6,948	11.08	627

NORTHERN DIVISION H.Q. - KISKI
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2037
 NET SALVAGE PERCENT: 0

1988	6,440.97	4,965	4,474	1,966	11.11	177
1990	1,876.08	1,429	1,288	588	11.09	53
1991	72.90	55	50	23	11.50	2
1994	22,760.50	16,804	15,144	7,617	11.14	684
1997	156,811.27	112,732	101,595	55,216	11.11	4,970
1998	10,184.58	7,232	6,518	3,667	11.18	328
1999	2,719.86	1,911	1,722	998	11.21	89
2002	37,658.07	25,483	22,965	14,693	11.19	1,313
2008	376,870.14	229,062	206,432	170,438	11.24	15,164
2012	5,896.34	3,204	2,887	3,009	11.27	267
2013	470.34	246	222	249	11.32	22
2017	9,500.00	4,062	3,661	5,839	11.27	518
2019	51,848.55	18,831	16,971	34,878	11.25	3,100
2020	35,849.00	11,669	10,516	25,333	11.22	2,258
2021	911,733.42	257,747	232,283	679,450	11.21	60,611
2022	1,825.65	427	385	1,441	11.17	129
	2,317,394.72	1,250,214	1,126,701	1,190,694		106,368

BUTLER METER SHOP
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2021
 NET SALVAGE PERCENT: 0

1966	62,627.19	62,627	62,627
1969	216.05	216	216
1972	1,191.68	1,192	1,192
	64,034.92	64,035	64,035

CENT DIV AND GREENSBURG CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2028
 NET SALVAGE PERCENT: 0

1949	2,371.56	2,302	2,078	294	2.31	127
1959	2,096.59	2,019	1,822	274	2.56	107
1963	430,677.99	413,968	373,660	57,018	2.52	22,626
1964	1,539.18	1,475	1,331	208	2.70	77
1965	654.36	629	568	87	2.49	35
1966	976.50	934	843	133	2.71	49
1967	4,121.30	3,948	3,564	558	2.56	218
1968	646.90	620	560	87	2.49	35
1969	6,657.08	6,385	5,763	894	2.41	371
1971	10,820.37	10,363	9,354	1,466	2.40	611
1972	22,566.15	21,578	19,477	3,089	2.45	1,261
1973	3,706.54	3,536	3,192	515	2.52	204
1974	3,438.45	3,271	2,953	486	2.64	184
1976	919.57	872	787	132	2.69	49
1977	1,221.18	1,159	1,046	175	2.61	67

CENT DIV AND GREENSBURG CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2028
 NET SALVAGE PERCENT: 0

1978	1,597.60	1,515	1,367	230	2.58	89
1979	4,791.81	4,537	4,095	697	2.60	268
1980	718.19	678	612	106	2.65	40
1981	1,879.91	1,779	1,606	274	2.54	108
1982	8,262.92	7,821	7,059	1,203	2.45	491
1983	60,171.49	56,657	51,140	9,031	2.63	3,434
1984	17,367.27	16,329	14,739	2,628	2.63	999
1985	90,145.44	84,890	76,624	13,521	2.50	5,408
1986	12,562.64	11,785	10,637	1,925	2.60	740
1987	8,936.72	8,377	7,561	1,375	2.57	535
1988	55,686.25	52,089	47,017	8,669	2.58	3,360
1989	29,469.36	27,580	24,895	4,575	2.49	1,837
1990	18,494.98	17,228	15,551	2,944	2.60	1,132
1991	119,393.26	110,940	100,138	19,256	2.62	7,350
1992	14,894.58	13,837	12,490	2,405	2.55	943
1993	21,385.70	19,827	17,896	3,489	2.55	1,368
1994	187,968.34	173,608	156,704	31,265	2.60	12,025
1995	33,563.46	30,932	27,920	5,643	2.59	2,179
1996	54,289.39	49,984	45,117	9,172	2.53	3,625
1997	39,321.00	36,093	32,579	6,742	2.54	2,654
1998	67,068.81	61,415	55,435	11,634	2.52	4,617
2002	8,304.30	7,486	6,757	1,547	2.56	604
2003	306,305.28	274,664	247,920	58,385	2.58	22,630
2005	144,369.95	128,215	115,731	28,639	2.57	11,144
2007	40,891.92	35,846	32,356	8,536	2.59	3,296
2014	37,660.00	30,742	27,749	9,911	2.57	3,856
2017	6,775.00	5,189	4,684	2,091	2.57	814
2018	195,632.54	145,238	131,096	64,536	2.57	25,111
2019	103,134.21	73,658	66,486	36,648	2.57	14,260
2020	275,385.01	186,766	168,581	106,804	2.57	41,558
2021	13,538.27	8,556	7,723	5,815	2.57	2,263
	2,472,379.32	2,157,320	1,947,261	525,118		204,759

JOHNSTOWN DIVISION AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1943	90,391.82	84,932	76,647	13,745	5.30	2,593
1966	318,929.94	291,821	263,355	55,575	5.52	10,068
1967	4,073.03	3,735	3,371	702	5.28	133
1971	2,535.26	2,304	2,079	456	5.43	84
1972	1,702.65	1,546	1,395	307	5.39	57
1975	1,036.16	935	844	192	5.49	35
1976	3,832.16	3,447	3,111	721	5.55	130
1978	1,858.53	1,666	1,503	355	5.46	65
1979	1,896.31	1,699	1,533	363	5.42	67
1980	2,746.10	2,457	2,217	529	5.34	99
1981	3,468.71	3,081	2,780	688	5.59	123
1984	3,697.28	3,262	2,944	753	5.54	136

JOHNSTOWN DIVISION AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1985	10,295.41	9,071	8,186	2,109	5.45	387
1986	8,387.42	7,373	6,654	1,734	5.44	319
1987	57,873.01	50,691	45,746	12,127	5.44	2,229
1988	102,396.21	89,269	80,561	21,835	5.50	3,970
1989	36,434.20	31,712	28,619	7,816	5.42	1,442
1991	55,157.82	47,651	43,003	12,155	5.42	2,243
1993	25,660.31	21,960	19,818	5,842	5.46	1,070
1994	27,238.69	23,191	20,929	6,310	5.48	1,151
1995	17,435.00	14,743	13,305	4,130	5.55	744
1996	28,120.70	23,658	21,350	6,770	5.55	1,220
1998	46,811.17	39,017	35,211	11,600	5.48	2,117
1999	7,653.98	6,328	5,711	1,943	5.54	351
2000	21,489.18	17,643	15,922	5,567	5.54	1,005
2002	47,688.32	38,637	34,868	12,820	5.49	2,335
2005	6,950.00	5,477	4,943	2,007	5.48	366
2006	2,379.47	1,853	1,672	707	5.52	128
2007	26,430.44	20,346	18,361	8,069	5.51	1,464
2009	71,375.94	53,432	48,220	23,156	5.51	4,203
2012	5,250.00	3,719	3,356	1,894	5.52	343
2016	15,748.38	9,921	8,953	6,795	5.53	1,229
2018	93,180.06	53,420	48,209	44,971	5.52	8,147
2019	248,846.45	133,805	120,753	128,094	5.52	23,205
2020	9,604.01	4,755	4,291	5,313	5.52	962
2021	74,483.58	33,130	29,898	44,585	5.51	8,092
2022	1,740.67	666	601	1,140	5.51	207
	1,484,798.37	1,142,353	1,030,919	453,879		82,519

ALTOONA DIVISION, CITY PLANT H.Q. AND WAREHOUSE
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2032
 NET SALVAGE PERCENT: 0

1924	435.52	411	370	65	5.91	11
1945	492.69	460	415	78	6.00	13
1948	2,888.20	2,683	2,418	470	5.95	79
1950	23,605.50	21,896	19,735	3,870	5.89	657
1951	6,091.93	5,622	5,067	1,025	6.21	165
1952	142,376.31	131,698	118,702	23,674	5.95	3,979
1953	23,136.05	21,278	19,178	3,958	6.32	626
1958	813.70	746	672	141	6.13	23
1961	2,324.78	2,112	1,904	421	6.48	65
1963	2,863.86	2,610	2,352	511	6.08	84
1966	8,158.89	7,368	6,641	1,518	6.38	238
1968	993.92	896	808	186	6.20	30
1969	523.45	470	424	100	6.67	15
1970	0.70	1	1			
1971	3,328.14	2,988	2,693	635	6.17	103
1972	2,445.48	2,182	1,967	479	6.47	74
1973	6,456.26	5,753	5,185	1,271	6.42	198
1976	2,945.98	2,606	2,349	597	6.42	93

ALTOONA DIVISION, CITY PLANT H.Q. AND WAREHOUSE
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2032
 NET SALVAGE PERCENT: 0

1977	1,500.00	1,322	1,192	308	6.55	47
1978	12,059.78	10,637	9,587	2,472	6.34	390
1979	8,643.52	7,583	6,835	1,809	6.48	279
1981	14,781.49	12,934	11,658	3,124	6.35	492
1982	9,671.00	8,440	7,607	2,064	6.33	326
1983	4,480.47	3,896	3,512	969	6.38	152
1984	27,253.46	23,591	21,263	5,990	6.43	932
1985	1,263.73	1,088	981	283	6.58	43
1986	3,203.40	2,753	2,481	722	6.45	112
1989	782,976.60	664,356	598,797	184,179	6.50	28,335
1990	32,673.28	27,658	24,929	7,745	6.42	1,206
1994	11,371.45	9,431	8,500	2,871	6.47	444
1995	368,068.25	303,399	273,460	94,609	6.48	14,600
1997	13,247.67	10,805	9,739	3,509	6.43	546
1998	44,954.56	36,359	32,771	12,183	6.48	1,880
2000	1,442.94	1,152	1,038	405	6.43	63
2002	15,461.18	12,129	10,932	4,529	6.43	704
2003	12,062.57	9,356	8,433	3,630	6.49	559
2004	3,675.14	2,818	2,540	1,135	6.52	174
2005	6,950.00	5,279	4,758	2,192	6.47	339
2008	147,095.70	107,086	96,519	50,577	6.51	7,769
2009	116,934.87	83,889	75,611	41,324	6.47	6,387
2012	39,427.15	26,554	23,934	15,493	6.50	2,384
2017	124,830.59	70,504	63,547	61,284	6.49	9,443
2019	116,711.39	58,041	52,314	64,398	6.49	9,923
	2,150,621.55	1,712,840	1,543,817	606,805		93,982

WEST DIV OFFICE & GIB CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2030
 NET SALVAGE PERCENT: 0

1960	77,127.48	72,153	65,100	12,027	4.51	2,667
1961	20,070.74	18,746	16,914	3,157	4.55	694
1962	2,612.56	2,435	2,197	416	4.62	90
1970	896.38	830	749	148	4.48	33
1972	1,732.37	1,601	1,445	288	4.36	66
1973	769.29	710	641	129	4.45	29
1974	8,759.09	8,062	7,274	1,485	4.45	334
1975	1,619.95	1,486	1,341	279	4.50	62
1976	928.15	853	770	159	4.30	37
1977	427.04	391	353	74	4.63	16
1978	2,152.16	1,969	1,777	376	4.42	85
1981	7,269.82	6,587	5,943	1,327	4.61	288
1982	7,096.99	6,440	5,810	1,287	4.42	291
1983	8,103.36	7,321	6,605	1,498	4.53	331
1984	8,548.32	7,718	6,964	1,585	4.45	356
1985	179.77	162	146	34	4.25	8
1986	4,626.77	4,158	3,752	875	4.44	197
1987	16,040.66	14,358	12,955	3,086	4.50	686

WEST DIV OFFICE & GIB CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2030
 NET SALVAGE PERCENT: 0

1988	17,114.06	15,240	13,750	3,364	4.60	731
1989	148,533.19	131,987	119,085	29,448	4.57	6,444
1993	6,393.47	5,617	5,068	1,326	4.48	296
1994	8,076.67	7,054	6,364	1,712	4.55	376
1995	8,892.56	7,736	6,980	1,913	4.55	420
1997	882.03	762	688	195	4.43	44
1998	552,360.93	473,981	427,649	124,712	4.53	27,530
1999	48,150.89	41,087	37,071	11,080	4.54	2,441
2000	12,873.57	10,928	9,860	3,014	4.52	667
2002	35,288.07	29,582	26,690	8,598	4.52	1,902
2003	39,898.68	33,184	29,940	9,958	4.54	2,193
2004	26,632.62	21,959	19,812	6,820	4.56	1,496
2007	9,939.28	7,981	7,201	2,738	4.52	606
2008	92,178.51	73,051	65,910	26,268	4.56	5,761
2009	66,266.41	51,893	46,820	19,446	4.55	4,274
2013	88,745.83	65,015	58,660	30,086	4.53	6,642
2014	46,877.95	33,555	30,275	16,603	4.53	3,665
2017	32,750.00	21,281	19,201	13,549	4.54	2,984
2018	88,282.65	54,735	49,385	38,898	4.55	8,549
2019	103,148.79	60,363	54,462	48,686	4.55	10,700
2020	17,716.37	9,634	8,692	9,024	4.54	1,988
	1,619,963.43	1,312,605	1,184,297	435,666		95,979

HOPEWELL CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1961	239,859.67	220,959	199,464	40,396	5.51	7,331
1962	7,213.52	6,633	5,988	1,226	5.55	221
1963	1,692.49	1,564	1,412	281	5.11	55
1965	1,097.03	1,007	909	188	5.37	35
1968	723.51	660	596	128	5.57	23
1969	984.98	900	812	173	5.24	33
1971	581.69	529	478	104	5.47	19
1974	9,535.06	8,628	7,789	1,746	5.41	323
1975	9,920.85	8,954	8,083	1,838	5.45	337
1976	1,063.87	957	864	200	5.56	36
1978	939.29	842	760	179	5.42	33
1979	10,738.67	9,620	8,684	2,055	5.39	381
1980	13,487.17	12,067	10,893	2,594	5.35	485
1981	1,293.50	1,149	1,037	256	5.57	46
1982	1,138.72	1,013	914	224	5.33	42
1984	12,521.03	11,046	9,971	2,550	5.53	461
1985	21,310.45	18,777	16,950	4,360	5.45	800
1986	11,112.74	9,768	8,818	2,295	5.43	423
1987	8,570.94	7,507	6,777	1,794	5.44	330
1988	74,173.84	64,665	58,374	15,800	5.50	2,873
1989	378.88	330	298	81	5.40	15
1990	39,513.21	34,147	30,825	8,688	5.57	1,560

HOPEWELL CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1991	17,717.03	15,306	13,817	3,900	5.42	720
1992	13,808.43	11,859	10,705	3,103	5.49	565
1993	10,248.35	8,771	7,918	2,331	5.46	427
1994	10,675.48	9,089	8,205	2,471	5.48	451
1995	11,376.20	9,620	8,684	2,692	5.55	485
1998	70,618.91	58,861	53,135	17,484	5.48	3,191
2000	46,479.64	38,160	34,448	12,032	5.54	2,172
2001	36,503.82	29,769	26,873	9,631	5.52	1,745
2002	13,837.16	11,211	10,120	3,717	5.49	677
2003	34,041.04	27,318	24,660	9,381	5.52	1,699
2005	54,154.92	42,679	38,527	15,628	5.49	2,847
2006	190,619.30	148,416	133,978	56,641	5.52	10,261
2007	24,500.00	18,860	17,025	7,475	5.51	1,357
2008	11,530.52	8,756	7,904	3,626	5.52	657
2009	14,840.00	11,109	10,028	4,812	5.51	873
2014	12,466.11	8,397	7,580	4,886	5.53	884
2018	219,474.84	125,825	113,585	105,890	5.52	19,183
2019	15,269.00	8,210	7,411	7,858	5.52	1,424
2020	98,227.80	48,633	43,902	54,326	5.52	9,842
2021	68,867.56	30,632	27,652	41,215	5.51	7,480
	1,443,107.22	1,093,203	986,855	456,252		82,802

SOUTHERN DIV AND MON CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2027
 NET SALVAGE PERCENT: 0

1947	57,166.96	56,035	50,525	6,642	1.58	4,204
1948	27,660.35	27,196	24,522	3,139	1.32	2,378
1949	1,266.73	1,239	1,117	150	1.70	88
1953	1,917.47	1,875	1,691	227	1.66	137
1954	2,355.29	2,304	2,077	278	1.58	176
1959	65,507.73	63,955	57,666	7,842	1.61	4,871
1960	1,184.13	1,154	1,041	144	1.69	85
1961	5,571.32	5,455	4,919	653	1.38	473
1962	3,383.71	3,305	2,980	404	1.52	266
1964	476.07	465	419	57	1.46	39
1966	1,683.43	1,640	1,479	205	1.56	131
1969	1,559.80	1,514	1,365	195	1.73	113
1971	11,780.11	11,475	10,347	1,433	1.45	988
1972	6,154.32	5,983	5,395	760	1.53	497
1973	2,390.11	2,318	2,090	300	1.64	183
1975	1,247.81	1,208	1,089	159	1.67	95
1978	2,389.28	2,311	2,084	306	1.60	191
1979	8,709.67	8,409	7,582	1,128	1.66	680
1981	1,869.15	1,801	1,624	245	1.67	147
1982	11,780.12	11,354	10,238	1,543	1.63	947
1983	19,931.83	19,192	17,305	2,627	1.63	1,612
1984	15,807.70	15,254	13,754	2,054	1.50	1,369
1985	109,553.81	105,380	95,018	14,536	1.60	9,085

SOUTHERN DIV AND MON CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2027
 NET SALVAGE PERCENT: 0

1986	56,131.64	53,987	48,678	7,453	1.57	4,747
1987	82,066.79	78,817	71,067	11,000	1.58	6,962
1988	21,602.55	20,693	18,658	2,944	1.64	1,795
1989	14,727.43	14,106	12,719	2,009	1.60	1,256
1990	3,194.14	3,054	2,754	440	1.62	272
1992	43,057.95	41,150	37,104	5,954	1.55	3,841
1993	3,763.95	3,587	3,234	530	1.60	331
1994	5,127.23	4,881	4,401	726	1.59	457
1996	9,452.47	8,982	8,099	1,354	1.54	879
1997	1,576.21	1,492	1,345	231	1.62	143
1998	64,019.11	60,556	54,601	9,418	1.57	5,999
2000	13,091.82	12,312	11,101	1,991	1.61	1,237
2001	7,576.38	7,122	6,422	1,155	1.56	740
2002	357,642.37	335,004	302,062	55,581	1.58	35,178
2008	19,439.50	17,809	16,058	3,382	1.60	2,114
2009	28,742.44	26,236	23,656	5,086	1.57	3,239
2019	50,213.87	40,307	36,343	13,870	1.58	8,778
2020	1.00	1	1			
2021	61,020.93	44,954	40,533	20,488	1.58	12,967
	1,203,794.68	1,125,872	1,015,160	188,635		119,690
	24,813,854.42	17,765,289	16,030,940	8,782,914		1,315,814

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.70 5.30

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1886	288.58	282	289		
1889	26.33	25	26		
1890	7.25	7	7		
1892	5.14	5	5		
1894	299.72	281	300		
1895	6.38	6	6		
1896	5,840.96	5,442	5,841		
1897	94.83	88	95		
1898	169.97	157	170		
1899	1,493.07	1,376	1,493		
1900	419,401.63	385,267	419,402		
1901	23,605.31	21,609	23,605		
1902	47,725.16	43,543	47,725		
1903	45,183.21	41,079	45,183		
1904	43,860.66	39,743	43,861		
1905	48,484.50	43,771	48,484		
1906	34,047.14	30,628	34,047		
1907	41,782.00	37,447	41,782		
1908	33,563.99	29,965	33,564		
1909	21,043.06	18,714	21,043		
1910	10,151.32	8,992	10,151		
1911	30,763.83	27,140	30,764		
1912	23,801.62	20,912	23,802		
1913	124,874.62	109,248	124,875		
1914	126,356.12	110,088	126,356		
1915	29,199.26	25,326	29,199		
1916	49,148.83	42,445	49,149		
1917	34,228.46	29,427	34,228		
1918	42,112.05	36,041	41,971	141	10.07
1919	30,988.06	26,396	30,739	249	10.83
1920	909.53	771	898	12	12.00
1921	36,898.52	31,133	36,255	644	11.30
1922	39,932.18	33,532	39,049	883	11.47
1923	58,967.31	49,271	57,378	1,589	11.86
1924	99,068.35	82,364	95,915	3,153	12.13
1925	188,169.84	155,658	181,269	6,901	12.43
1926	139,424.55	114,755	133,636	5,789	12.75
1927	128,696.04	105,370	122,707	5,989	13.05
1928	152,567.21	124,237	144,678	7,889	13.37
1929	123,047.98	99,669	116,068	6,980	13.69
1930	109,243.38	88,002	102,481	6,762	14.00
1931	116,385.72	93,221	108,559	7,827	14.34
1932	93,155.51	74,188	86,394	6,762	14.67
1933	34,890.52	27,627	32,172	2,719	15.02
1934	23,648.93	18,614	21,677	1,972	15.29
1935	42,730.83	33,425	38,924	3,807	15.67
1936	53,561.75	41,637	48,488	5,074	16.01
1937	180,477.85	139,419	162,358	18,120	16.38
1938	118,485.65	90,938	105,900	12,586	16.74
1939	197,043.48	150,218	174,934	22,109	17.11
1940	276,257.08	209,149	243,560	32,697	17.49
1941	209,647.08	157,615	183,548	26,099	17.88
1942	120,882.89	90,243	105,091	15,792	18.26
1943	38,957.44	28,872	33,622	5,335	18.65
1944	73,348.70	53,952	62,829	10,520	19.02

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1945	52,691.48	38,457	44,784	7,907	19.43	407
1946	208,628.68	151,083	175,941	32,688	19.86	1,646
1947	187,672.15	134,811	156,992	30,680	20.28	1,513
1948	99,983.53	71,224	82,943	17,041	20.71	823
1949	513,259.26	362,561	422,214	91,045	21.14	4,307
1950	706,569.95	494,797	576,206	130,364	21.58	6,041
1951	783,932.05	544,072	633,589	150,343	22.03	6,824
1952	1,240,755.11	853,193	993,570	247,185	22.49	10,991
1953	1,314,141.65	895,259	1,042,557	271,585	22.95	11,834
1954	760,678.12	513,245	597,690	162,988	23.42	6,959
1955	1,051,730.40	702,619	818,222	233,508	23.90	9,770
1956	1,466,035.77	969,621	1,129,154	336,882	24.38	13,818
1957	1,103,034.87	722,025	840,821	262,214	24.87	10,543
1958	1,387,395.98	898,533	1,046,370	341,026	25.37	13,442
1959	1,162,209.84	744,465	866,953	295,257	25.88	11,409
1960	1,113,517.73	705,380	821,437	292,081	26.39	11,068
1961	1,386,586.52	868,156	1,010,995	375,592	26.92	13,952
1962	1,382,931.17	855,882	996,701	386,230	27.44	14,075
1963	1,624,004.81	992,900	1,156,263	467,742	27.98	16,717
1964	1,694,783.94	1,023,463	1,191,854	502,930	28.52	17,634
1965	1,907,446.62	1,137,315	1,324,439	583,008	29.07	20,055
1966	2,209,740.93	1,300,366	1,514,317	695,424	29.63	23,470
1967	2,286,352.51	1,327,662	1,546,104	740,249	30.19	24,520
1968	2,664,712.62	1,526,294	1,777,417	887,296	30.76	28,846
1969	2,359,823.00	1,332,639	1,551,899	807,924	31.34	25,779
1970	2,352,967.14	1,309,826	1,525,333	827,634	31.92	25,928
1971	3,170,343.81	1,738,838	2,024,931	1,145,413	32.51	35,233
1972	3,556,786.45	1,921,163	2,237,254	1,319,532	33.11	39,853
1973	4,219,709.28	2,244,084	2,613,305	1,606,404	33.71	47,654
1974	4,196,041.01	2,195,914	2,557,210	1,638,831	34.32	47,751
1975	2,361,556.50	1,215,871	1,415,919	945,638	34.93	27,072
1976	2,176,995.69	1,101,799	1,283,079	893,917	35.56	25,138
1977	4,432,671.28	2,205,254	2,568,087	1,864,584	36.18	51,536
1978	3,783,142.65	1,848,481	2,152,613	1,630,530	36.82	44,284
1979	4,509,040.12	2,163,077	2,518,970	1,990,070	37.46	53,125
1980	5,383,977.42	2,534,938	2,952,014	2,431,963	38.10	63,831
1981	6,403,029.36	2,956,983	3,443,498	2,959,531	38.75	76,375
1982	5,622,121.12	2,544,797	2,963,495	2,658,626	39.41	67,461
1983	4,373,299.67	2,430,243	2,830,093	1,543,207	33.92	45,495
1984	6,221,294.17	3,401,182	3,960,782	2,260,512	34.34	65,827
1985	6,717,475.29	3,610,643	4,204,706	2,512,769	34.77	72,268
1986	6,288,142.16	3,321,397	3,867,870	2,420,272	35.21	68,738
1987	8,786,084.87	4,523,076	5,267,262	3,518,823	36.21	97,178
1988	5,717,143.83	2,887,729	3,362,850	2,354,294	36.66	64,220
1989	7,334,652.24	3,632,853	4,230,570	3,104,082	37.11	83,645
1990	7,972,818.59	3,868,412	4,504,886	3,467,933	37.58	92,281
1991	7,629,627.61	3,624,073	4,220,345	3,409,283	38.04	89,624
1992	10,878,666.55	5,053,141	5,884,539	4,994,128	38.53	129,617
1993	9,617,740.93	4,364,531	5,082,632	4,535,109	39.01	116,255
1994	10,452,149.45	4,630,302	5,392,130	5,060,019	39.50	128,102
1995	9,249,003.63	3,994,645	4,651,888	4,597,116	40.01	114,899
1996	7,472,384.06	3,143,632	3,660,857	3,811,527	40.51	94,089
1997	7,777,089.57	3,204,161	3,731,345	4,045,745	40.55	99,772
1998	5,576,713.04	2,232,358	2,599,650	2,977,063	41.08	72,470
1999	7,758,979.98	3,012,812	3,508,513	4,250,467	41.61	102,150

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

2000	7,380,811.39	2,776,661	3,233,508	4,147,303	42.15	98,394
2001	7,764,820.30	2,824,842	3,289,616	4,475,204	42.70	104,806
2002	11,005,956.89	3,891,706	4,532,012	6,473,945	42.81	151,225
2003	12,888,582.41	4,391,140	5,113,619	7,774,963	43.38	179,229
2004	15,055,188.60	4,933,585	5,745,313	9,309,876	43.94	211,877
2005	18,820,879.72	5,956,808	6,936,888	11,883,992	44.10	269,478
2006	15,383,564.93	4,659,682	5,426,344	9,957,221	44.69	222,806
2007	11,810,990.39	3,436,998	4,002,491	7,808,499	44.87	174,025
2008	11,840,118.87	3,278,529	3,817,949	8,022,170	45.48	176,389
2009	13,388,041.29	3,538,459	4,120,645	9,267,396	45.70	202,788
2010	12,743,665.08	3,202,483	3,729,391	9,014,274	45.93	196,261
2011	18,726,733.99	4,455,090	5,188,090	13,538,644	46.19	293,108
2012	47,940,359.18	10,743,434	12,511,062	35,429,297	46.46	762,576
2013	26,128,992.96	5,481,863	6,383,799	19,745,194	46.76	422,267
2014	30,384,174.10	5,930,991	6,906,823	23,477,351	47.06	498,881
2015	35,583,807.72	6,447,786	7,508,647	28,075,161	47.06	596,582
2016	34,286,660.77	5,681,300	6,616,050	27,670,611	47.40	583,768
2017	55,581,825.00	8,376,181	9,754,322	45,827,503	47.45	965,806
2018	79,657,209.55	10,809,483	12,587,978	67,069,232	47.23	1,420,056
2019	66,175,123.50	7,901,310	9,201,320	56,973,804	47.34	1,203,502
2020	73,272,919.32	7,583,747	8,831,508	64,441,411	46.94	1,372,846
2021	137,255,276.62	11,886,307	13,841,973	123,413,304	46.60	2,648,354
2022	159,797,931.42	11,026,057	12,840,185	146,957,746	46.09	3,188,495
2023	216,846,139.08	11,059,153	12,878,727	203,967,412	44.98	4,534,625
2024	263,294,717.35	8,399,101	9,781,013	253,513,704	43.03	5,891,557
2025	227,571,913.35	4,938,311	5,750,816	221,821,097	41.28	5,373,573
	1,827,171,621.32	272,922,574	317,772,699	1,509,398,922		34,205,265

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 44.10 1.87

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1875	238.19	238	238			
1876	21.73	22	22			
1885	1,437.23	1,409	1,195	242	1.43	169
1888	7,601.43	7,346	6,232	1,369	2.42	566
1889	15,893.89	15,285	12,966	2,928	2.76	1,061
1890	38.69	37	31	8	2.67	3
1891	26,766.05	25,491	21,624	5,142	3.43	1,499
1893	36.90	35	30	7	3.50	2
1894	802.55	754	640	163	4.41	37
1896	6,726.57	6,267	5,316	1,411	4.92	287
1897	1,457.13	1,352	1,147	310	5.17	60
1898	90.25	83	70	20	5.00	4
1899	7,992.79	7,367	6,249	1,744	5.64	309
1900	182,246.26	167,413	142,015	40,231	5.86	6,865
1901	14,440.93	13,220	11,214	3,227	6.09	530
1902	44,957.23	41,017	34,794	10,163	6.31	1,611
1903	31,817.80	28,928	24,539	7,279	6.54	1,113
1904	15,907.91	14,414	12,227	3,681	6.75	545
1905	14,033.05	12,669	10,747	3,286	7.01	469
1906	19,802.61	17,814	15,111	4,692	7.23	649
1907	3,535.92	3,169	2,688	848	7.44	114
1908	48,080.75	42,926	36,414	11,667	7.72	1,511
1909	11,647.53	10,358	8,787	2,861	7.97	359
1910	7,646.08	6,773	5,745	1,901	8.23	231
1911	13,646.94	12,040	10,213	3,434	8.48	405
1912	6,084.74	5,346	4,535	1,550	8.76	177
1913	7,780.57	6,807	5,774	2,007	9.00	223
1914	8,774.55	7,645	6,485	2,290	9.27	247
1915	17,647.65	15,307	12,985	4,663	9.56	488
1916	8,153.10	7,041	5,973	2,180	9.82	222
1917	11,968.26	10,289	8,728	3,240	10.09	321
1918	9,141.09	7,823	6,636	2,505	10.39	241
1919	4,178.73	3,559	3,019	1,160	10.64	109
1920	2,179.19	1,848	1,568	611	10.91	56
1921	29,440.59	24,840	21,072	8,369	11.25	744
1922	9,809.56	8,237	6,987	2,823	11.52	245
1923	26,962.92	22,529	19,111	7,852	11.84	663
1924	22,865.85	19,010	16,126	6,740	12.14	555
1925	20,891.13	17,282	14,660	6,231	12.44	501
1926	14,416.26	11,865	10,065	4,351	12.72	342
1927	49,754.76	40,737	34,557	15,198	13.05	1,165
1928	24,575.76	20,012	16,976	7,600	13.38	568
1929	30,223.30	24,481	20,767	9,456	13.68	691
1930	69,133.51	55,691	47,242	21,892	14.00	1,564
1931	45,068.55	36,099	30,622	14,447	14.33	1,008
1932	25,703.92	20,470	17,364	8,340	14.66	569
1933	17,966.34	14,226	12,068	5,898	15.01	393
1934	10,052.57	7,912	6,712	3,341	15.33	218
1935	19,608.71	15,338	13,011	6,598	15.67	421
1936	16,724.01	13,001	11,029	5,695	16.04	355
1937	55,423.38	42,815	36,320	19,103	16.38	1,166
1938	57,796.28	44,359	37,629	20,167	16.74	1,205
1939	47,408.14	36,142	30,659	16,749	17.11	979
1940	113,502.16	85,930	72,894	40,608	17.49	2,322
1941	276,941.57	208,207	176,620	100,322	17.87	5,614

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1942	101,272.05	75,603	64,133	37,139	18.25	2,035
1943	40,102.79	29,721	25,212	14,891	18.64	799
1944	70,746.27	52,038	44,143	26,603	19.04	1,397
1945	62,816.81	45,847	38,892	23,925	19.45	1,230
1946	138,149.66	100,044	84,866	53,284	19.86	2,683
1947	149,365.32	107,294	91,016	58,349	20.28	2,877
1948	125,393.80	89,326	75,774	49,620	20.71	2,396
1949	315,973.03	223,200	189,338	126,635	21.14	5,990
1950	307,798.34	215,545	182,845	124,953	21.58	5,790
1951	1,051,873.18	730,032	619,279	432,594	22.03	19,637
1952	706,586.14	485,877	412,165	294,421	22.49	13,091
1953	838,081.02	570,943	484,325	353,756	22.95	15,414
1954	418,606.30	282,442	239,593	179,013	23.42	7,644
1955	1,022,941.20	683,386	579,709	443,232	23.90	18,545
1956	813,054.42	537,746	456,165	356,889	24.38	14,639
1957	1,302,672.32	852,703	723,339	579,333	24.87	23,294
1958	2,152,519.29	1,394,058	1,182,565	969,954	25.37	38,232
1959	3,075,248.25	1,969,881	1,671,030	1,404,218	25.88	54,259
1960	2,282,058.01	1,445,615	1,226,301	1,055,757	26.39	40,006
1961	3,126,703.56	1,957,660	1,660,663	1,466,041	26.92	54,459
1962	2,501,400.45	1,548,092	1,313,231	1,188,169	27.44	43,301
1963	2,306,350.47	1,410,080	1,196,157	1,110,193	27.98	39,678
1964	2,502,145.00	1,511,020	1,281,783	1,220,362	28.52	42,790
1965	2,952,815.18	1,760,616	1,493,513	1,459,302	29.07	50,200
1966	3,526,253.40	2,075,094	1,760,281	1,765,972	29.63	59,601
1967	3,960,603.83	2,299,883	1,950,968	2,009,636	30.19	66,566
1968	4,426,553.29	2,535,441	2,150,789	2,275,764	30.76	73,985
1969	3,780,869.83	2,135,133	1,811,212	1,969,658	31.34	62,848
1970	2,944,195.00	1,638,945	1,390,301	1,553,894	31.92	48,681
1971	4,502,133.36	2,469,285	2,094,670	2,407,463	32.51	74,053
1972	6,692,281.59	3,614,769	3,066,372	3,625,910	33.11	109,511
1973	7,818,579.85	4,157,999	3,527,189	4,291,391	33.71	127,303
1974	6,227,381.18	3,258,975	2,764,556	3,462,825	34.32	100,898
1975	3,358,109.39	1,728,956	1,466,656	1,891,453	34.93	54,150
1976	2,849,464.49	1,442,142	1,223,355	1,626,109	35.56	45,729
1977	5,049,543.48	2,512,148	2,131,030	2,918,513	36.18	80,666
1978	3,783,099.75	1,848,460	1,568,030	2,215,070	36.82	60,159
1979	7,928,605.72	3,803,511	3,226,480	4,702,126	37.46	125,524
1980	10,140,691.82	4,774,542	4,050,196	6,090,496	38.10	159,856
1981	14,437,526.94	6,667,394	5,655,883	8,781,644	38.75	226,623
1982	9,191,846.53	4,160,597	3,529,392	5,662,455	39.41	143,681
1983	6,854,640.44	3,809,124	3,231,241	3,623,399	33.92	106,822
1984	8,938,835.56	4,886,861	4,145,475	4,793,361	34.34	139,585
1985	17,210,835.08	9,250,824	7,847,381	9,363,454	34.77	269,297
1986	11,780,656.69	6,222,543	5,278,520	6,502,137	35.21	184,667
1987	17,777,469.84	9,151,841	7,763,414	10,014,056	36.21	276,555
1988	12,326,144.40	6,225,936	5,281,399	7,044,745	36.66	192,164
1989	14,413,336.15	7,138,925	6,055,878	8,357,458	37.11	225,208
1990	17,031,634.01	8,263,749	7,010,055	10,021,579	37.58	266,673
1991	15,956,099.16	7,579,147	6,429,314	9,526,785	38.04	250,441
1992	17,731,802.94	8,236,422	6,986,874	10,744,929	38.53	278,872
1993	12,884,166.66	5,846,835	4,959,811	7,924,356	39.01	203,137
1994	13,559,203.42	6,006,727	5,095,446	8,463,757	39.50	214,272
1995	15,471,073.05	6,681,956	5,668,236	9,802,837	40.01	245,010
1996	10,867,248.14	4,571,851	3,878,255	6,988,993	40.51	172,525

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1997	11,437,009.71	4,712,048	3,997,183	7,439,827	40.55	183,473
1998	10,589,496.39	4,238,975	3,595,880	6,993,616	41.08	170,244
1999	11,229,112.42	4,360,264	3,698,768	7,530,344	41.61	180,974
2000	9,788,482.23	3,682,427	3,123,766	6,664,716	42.15	158,119
2001	18,148,644.22	6,602,477	5,600,815	12,547,829	42.70	293,860
2002	23,392,018.28	8,271,418	7,016,560	16,375,458	42.81	382,515
2003	20,217,711.59	6,888,174	5,843,169	14,374,543	43.38	331,363
2004	22,561,266.35	7,393,327	6,271,685	16,289,581	43.94	370,723
2005	24,995,759.66	7,911,158	6,710,956	18,284,804	44.10	414,621
2006	21,141,546.70	6,403,774	5,432,257	15,709,290	44.69	351,517
2007	20,769,436.01	6,043,906	5,126,984	15,642,452	44.87	348,617
2008	16,800,489.88	4,652,056	3,946,292	12,854,198	45.48	282,634
2009	16,911,377.90	4,469,677	3,791,582	13,119,796	45.70	287,085
2010	19,040,199.82	4,784,802	4,058,899	14,981,301	45.93	326,177
2011	14,583,006.41	3,469,297	2,942,970	11,640,036	46.19	252,003
2012	20,497,902.59	4,593,580	3,896,688	16,601,215	46.46	357,323
2013	20,393,280.89	4,278,510	3,629,417	16,763,864	46.76	358,509
2014	17,750,881.54	3,464,972	2,939,301	14,811,581	47.06	314,738
2015	19,307,654.97	3,498,547	2,967,782	16,339,873	47.06	347,214
2016	34,131,260.11	5,655,550	4,797,546	29,333,714	47.40	618,855
2017	41,399,792.74	6,238,949	5,292,437	36,107,356	47.45	760,956
2018	69,632,973.79	9,449,195	8,015,657	61,617,317	47.23	1,304,622
2019	71,710,355.99	8,562,217	7,263,242	64,447,114	47.34	1,361,367
2020	70,834,493.01	7,331,370	6,219,127	64,615,366	46.94	1,376,552
2021	95,407,666.44	8,262,304	7,008,829	88,398,837	46.60	1,896,971
2022	125,241,252.86	8,641,646	7,330,621	117,910,632	46.09	2,558,269
2023	179,624,260.63	9,160,837	7,771,046	171,853,215	44.98	3,820,658
2024	152,537,274.24	4,865,939	4,127,727	148,409,547	43.03	3,448,979
2025	111,280,283.66	2,414,782	2,048,435	109,231,849	41.28	2,646,120
	1,614,677,492.44	334,648,237	283,878,765	1,330,798,727		30,692,277

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 43.40 1.90

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

1891	38.58	39	39		
1904	265.76	266	266		
1906	26.74	27	27		
1907	150.81	151	151		
1908	58.16	58	58		
1909	83.93	84	84		
1910	20.38	20	20		
1913	99.85	100	100		
1914	22.03	22	22		
1915	92.88	93	93		
1916	22.31	22	22		
1918	132.39	130	132		
1920	46.07	45	46		
1922	0.66	1	1		
1923	30.73	29	31		
1927	9.84	9	10		
1931	106.68	97	107		
1932	16.92	15	17		
1933	149.45	135	149		
1934	98.67	89	99		
1938	6.18	5	6		
1940	35.79	31	36		
1941	1.86	2	2		
1942	44.35	38	44		
1944	8.89	8	9		
1946	793.25	668	793		
1947	1,719.46	1,438	1,719		
1948	2,949.17	2,451	2,932	17	8.50
1949	12,770.69	10,544	12,615	156	9.75
1950	17,964.60	14,731	17,624	341	10.03
1951	44,614.03	36,332	43,467	1,147	10.24
1952	73,415.38	59,360	71,018	2,397	10.51
1953	119,687.78	96,077	114,946	4,742	10.85
1954	33,631.99	26,796	32,059	1,573	11.16
1955	91,398.68	72,272	86,466	4,933	11.50
1956	55,519.96	43,548	52,101	3,419	11.87
1957	60,122.56	46,786	55,975	4,148	12.20
1958	166,435.97	128,429	153,652	12,784	12.56
1959	74,159.26	56,739	67,882	6,277	12.92
1960	55,675.01	42,222	50,514	5,161	13.30
1961	78,496.70	58,986	70,571	7,926	13.67
1962	92,880.39	69,136	82,714	10,166	14.06
1963	97,019.32	71,512	85,557	11,462	14.45
1964	55,571.51	40,557	48,522	7,050	14.87
1965	78,053.45	56,369	67,440	10,613	15.27
1966	66,065.08	47,207	56,478	9,587	15.69
1967	98,187.37	69,392	83,020	15,167	16.14
1968	189,058.20	132,101	158,045	31,013	16.57
1969	130,674.50	90,237	107,959	22,716	17.02
1970	114,580.56	78,144	93,491	21,090	17.49
1971	149,680.93	100,803	120,600	29,081	17.96
1972	280,972.62	186,771	223,452	57,521	18.44
1973	228,029.92	149,547	178,917	49,113	18.93
1974	265,143.59	171,524	205,211	59,933	19.42
1975	280,978.40	179,163	214,350	66,628	19.93

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

1976	521,317.65	327,481	391,797	129,521	20.45	6,334
1977	274,352.81	169,701	203,030	71,323	20.98	3,400
1978	414,964.18	252,601	302,211	112,753	21.52	5,239
1979	418,212.62	250,472	299,664	118,549	22.06	5,374
1980	422,581.98	248,787	297,648	124,934	22.62	5,523
1981	1,491,507.45	862,912	1,032,384	459,123	23.18	19,807
1982	1,082,382.10	614,988	735,769	346,613	23.75	14,594
1983	879,004.74	585,329	700,285	178,720	21.28	8,398
1984	900,473.92	589,270	705,000	195,474	21.87	8,938
1985	1,201,420.23	776,958	929,549	271,871	22.08	12,313
1986	1,039,748.82	659,825	789,412	250,337	22.70	11,028
1987	1,051,200.44	658,262	787,542	263,658	22.93	11,498
1988	1,037,251.03	636,457	761,454	275,797	23.56	11,706
1989	1,087,582.44	653,528	781,878	305,704	24.19	12,638
1990	1,048,671.74	620,289	742,111	306,561	24.46	12,533
1991	1,612,355.07	932,264	1,115,357	496,998	25.11	19,793
1992	1,223,137.68	694,865	831,334	391,804	25.41	15,419
1993	933,513.68	517,447	619,071	314,443	26.06	12,066
1994	1,178,522.19	640,527	766,324	412,198	26.39	15,619
1995	1,001,625.93	530,060	634,162	367,464	27.06	13,580
1996	383,919.92	198,755	237,790	146,130	27.40	5,333
1997	956,000.38	480,868	575,308	380,692	28.08	13,557
1998	556,556.35	273,158	326,805	229,751	28.45	8,076
1999	692,707.92	331,184	396,227	296,481	28.83	10,284
2000	827,132.13	382,631	457,778	369,354	29.53	12,508
2001	1,943,913.81	873,400	1,044,932	898,982	29.93	30,036
2002	1,340,057.78	583,729	698,371	641,687	30.34	21,150
2003	1,234,679.91	520,294	622,478	612,202	30.78	19,890
2004	1,068,519.92	434,781	520,170	548,350	31.22	17,564
2005	1,420,796.18	556,952	666,335	754,461	31.67	23,823
2006	3,621,017.44	1,364,037	1,631,928	1,989,089	32.13	61,908
2007	1,443,936.78	521,261	623,634	820,303	32.60	25,163
2008	4,786,061.03	1,650,234	1,974,333	2,811,728	33.09	84,972
2009	3,310,387.36	1,086,800	1,300,243	2,010,144	33.58	59,861
2010	920,692.79	288,177	344,774	575,919	33.84	17,019
2011	2,217,508.70	658,600	787,946	1,429,563	34.13	41,886
2012	845,262.17	235,913	282,245	563,017	34.66	16,244
2013	2,756,318.46	722,155	863,983	1,892,335	34.98	54,098
2014	1,268,297.75	309,845	370,697	897,601	35.31	25,421
2015	2,432,005.43	552,308	660,779	1,771,226	35.45	49,964
2016	1,286,367.83	267,693	320,267	966,101	35.83	26,963
2017	6,416,302.34	1,215,248	1,453,918	4,962,384	36.03	137,729
2018	1,277,373.35	217,920	260,719	1,016,654	36.06	28,193
2019	1,771,013.62	267,069	319,520	1,451,494	36.14	40,163
2020	2,665,946.91	347,906	416,233	2,249,714	36.08	62,353
2021	7,810,826.84	852,161	1,019,522	6,791,305	36.07	188,281
2022	8,148,657.58	713,008	853,040	7,295,618	35.64	204,703
2023	18,147,645.26	1,175,967	1,406,922	16,740,723	34.90	479,677
2024	10,516,059.58	425,900	509,545	10,006,515	33.55	298,257
2025	12,529,022.59	345,801	413,715	12,115,308	32.31	374,971
126,432,635.05		31,217,136	37,347,800	89,084,835		2,692,756

1900	15.09	15	15			
1901	1,637.59	1,638	1,638			
1902	399.75	400	400			
1903	542.76	543	543			
1904	943.79	944	944			
1905	4,013.41	4,013	4,013			
1906	3,824.81	3,825	3,825			
1907	4,133.89	4,134	4,134			
1908	2,984.98	2,985	2,985			
1909	343.67	344	344			
1920	894.69	895	895			
1921	2,097.63	2,098	2,098			
1922	2,055.39	2,055	2,055			
1923	1,569.86	1,570	1,570			
1924	1,433.06	1,428	1,433			
1925	1,560.98	1,548	1,561			
1926	2,944.33	2,907	2,944			
1927	2,480.59	2,437	2,481			
1928	2,970.73	2,905	2,971			
1929	2,671.22	2,599	2,671			
1930	3,506.91	3,395	3,507			
1931	2,305.13	2,220	2,305			
1932	2,234.89	2,142	2,235			
1933	1,742.22	1,661	1,742			
1934	1,396.21	1,324	1,396			
1935	1,676.13	1,581	1,676			
1936	2,886.59	2,708	2,887			
1937	3,043.76	2,839	3,044			
1938	1,594.53	1,479	1,595			
1939	4,452.21	4,106	4,452			
1940	6,285.44	5,764	6,285			
1941	12,894.55	11,758	12,895			
1942	9,485.77	8,599	9,486			
1943	4,317.00	3,890	4,317			
1944	7,166.32	6,420	7,166			
1945	3,841.76	3,421	3,842			
1946	15,224.52	13,478	15,225			
1947	24,043.05	21,154	23,899	144	6.55	22
1948	34,964.39	30,578	34,546	418	6.85	61
1949	36,263.61	31,516	35,606	658	7.23	91
1950	33,970.53	29,332	33,138	833	7.50	111
1951	39,749.37	34,105	38,530	1,219	7.81	156
1952	42,488.45	36,215	40,914	1,574	8.11	194
1953	58,868.84	49,835	56,302	2,567	8.44	304
1954	95,279.86	80,105	90,499	4,781	8.76	546
1955	119,119.59	99,454	112,359	6,761	9.08	745
1956	163,428.40	135,438	153,013	10,415	9.42	1,106
1957	200,653.31	165,047	186,464	14,189	9.76	1,454
1958	255,772.74	208,757	235,845	19,928	10.11	1,971
1959	367,463.93	297,580	336,194	31,270	10.46	2,989
1960	402,483.27	323,230	365,173	37,310	10.83	3,445
1961	573,815.64	456,964	516,260	57,556	11.20	5,139
1962	483,039.66	381,249	430,720	52,320	11.59	4,514
1963	823,683.56	644,269	727,870	95,814	11.98	7,998
1964	833,554.06	645,929	729,745	103,809	12.38	8,385

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1965	1,015,931.30	779,494	880,642	135,289	12.80	10,569
1966	1,030,835.43	783,064	884,675	146,160	13.22	11,056
1967	805,214.08	605,376	683,930	121,284	13.65	8,885
1968	1,184,121.75	880,560	994,822	189,300	14.10	13,426
1969	1,161,139.73	853,960	964,770	196,370	14.55	13,496
1970	1,450,760.74	1,054,572	1,191,414	259,347	15.02	17,267
1971	1,401,084.51	1,006,483	1,137,085	264,000	15.49	17,043
1972	2,109,693.01	1,496,722	1,690,938	418,755	15.98	26,205
1973	2,633,549.18	1,844,433	2,083,768	549,781	16.48	33,360
1974	2,678,534.15	1,851,108	2,091,309	587,225	16.99	34,563
1975	2,671,150.70	1,820,763	2,057,026	614,125	17.51	35,073
1976	3,553,556.55	2,387,990	2,697,857	855,700	18.04	47,433
1977	3,460,167.52	2,291,254	2,588,569	871,599	18.58	46,911
1978	7,055,089.32	4,601,188	5,198,241	1,856,848	19.13	97,065
1979	6,333,640.53	4,065,057	4,592,541	1,741,100	19.70	88,381
1980	7,105,554.59	4,486,802	5,069,012	2,036,543	20.27	100,471
1981	11,669,761.37	7,245,872	8,186,101	3,483,660	20.85	167,082
1982	9,535,558.73	5,818,407	6,573,407	2,962,152	21.44	138,160
1983	6,269,901.71	4,281,716	4,837,314	1,432,588	19.70	72,720
1984	11,764,609.66	7,942,288	8,972,884	2,791,726	19.93	140,077
1985	11,924,270.82	7,903,407	8,928,958	2,995,313	20.56	145,686
1986	5,489,022.81	3,570,060	4,033,313	1,455,710	21.19	68,698
1987	17,563,555.23	11,268,777	12,731,021	4,832,534	21.46	225,188
1988	10,545,152.52	6,628,683	7,488,825	3,056,328	22.11	138,233
1989	6,529,495.70	4,018,252	4,539,663	1,989,833	22.76	87,427
1990	14,068,814.00	8,520,074	9,625,644	4,443,170	23.06	192,679
1991	10,871,903.78	6,436,167	7,271,328	3,600,576	23.72	151,795
1992	17,448,580.38	10,144,605	11,460,976	5,987,604	24.06	248,861
1993	12,483,586.36	7,081,939	8,000,896	4,482,690	24.73	181,265
1994	14,980,888.64	8,282,933	9,357,732	5,623,157	25.40	221,384
1995	13,356,660.47	7,231,296	8,169,634	5,187,026	25.76	201,360
1996	11,782,953.76	6,204,903	7,010,055	4,772,899	26.45	180,450
1997	18,337,144.08	9,430,793	10,654,539	7,682,605	26.83	286,344
1998	9,108,702.04	4,545,242	5,135,036	3,973,666	27.53	144,339
1999	13,314,436.88	6,472,148	7,311,978	6,002,459	27.93	214,911
2000	5,793,642.99	2,724,171	3,077,661	2,715,982	28.64	94,832
2001	14,821,017.80	6,767,277	7,645,403	7,175,615	29.06	246,924
2002	12,151,415.80	5,349,053	6,043,150	6,108,266	29.78	205,113
2003	13,186,960.53	5,616,326	6,345,104	6,841,857	30.22	226,402
2004	17,557,468.79	7,182,760	8,114,800	9,442,669	30.94	305,193
2005	16,013,739.02	6,309,413	7,128,126	8,885,613	31.40	282,981
2006	14,546,604.09	5,507,344	6,221,981	8,324,623	31.87	261,206
2007	10,854,090.42	3,918,327	4,426,772	6,427,318	32.60	197,157
2008	11,503,538.97	3,966,420	4,481,105	7,022,434	33.09	212,222
2009	11,688,032.41	3,837,181	4,335,096	7,352,936	33.58	218,968
2010	6,393,660.02	1,990,986	2,249,338	4,144,322	34.09	121,570
2011	14,730,116.19	4,332,127	4,894,267	9,835,849	34.60	284,273
2012	18,571,929.97	5,133,281	5,799,379	12,772,551	35.13	363,580
2013	12,755,686.21	3,294,794	3,722,329	9,033,357	35.66	253,319
2014	18,332,850.74	4,396,218	4,966,674	13,366,177	36.20	369,231
2015	21,702,707.74	4,791,958	5,413,765	16,288,943	36.75	443,237
2016	22,863,172.61	4,629,792	5,230,557	17,632,616	37.09	475,401
2017	24,406,044.32	4,456,544	5,034,828	19,371,216	37.67	514,235
2018	41,399,980.52	6,756,477	7,633,202	33,766,779	38.04	887,665
2019	37,603,381.90	5,381,044	6,079,291	31,524,091	38.43	820,299

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

2020	39,483,230.51	4,856,437	5,486,611	33,996,620	38.63	880,057
2021	44,763,613.04	4,565,889	5,158,362	39,605,251	38.87	1,018,916
2022	32,270,754.34	2,601,023	2,938,533	29,332,221	38.96	752,880
2023	65,336,507.34	3,835,253	4,332,918	61,003,589	38.74	1,574,693
2024	59,765,786.97	2,139,615	2,417,253	57,348,534	38.11	1,504,816
2025	57,893,117.79	1,389,435	1,569,729	56,323,389	37.25	1,512,037
	923,796,287.48	283,352,358	320,112,789	603,683,499		17,874,301

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.80 1.93

SURVIVOR CURVE: IOWA 32-S0.5
NET SALVAGE PERCENT: 0

1957	17.31	17	17			
1966	17.59	17	18			
1968	1,751.11	1,626	1,751			
1969	17,689.86	16,241	17,630	60	2.61	23
1970	41,793.63	37,928	41,171	623	2.97	210
1971	109,708.79	98,430	106,847	2,862	3.29	870
1972	256,050.64	227,004	246,415	9,636	3.63	2,655
1973	161,455.36	141,475	153,572	7,883	3.96	1,991
1974	116,854.22	101,151	109,800	7,054	4.30	1,640
1975	192,862.24	164,897	178,997	13,865	4.64	2,988
1976	70,210.89	59,306	64,377	5,834	4.97	1,174
1977	97,875.15	81,603	88,581	9,294	5.32	1,747
1978	153,269.87	126,159	136,947	16,323	5.66	2,884
1979	190,971.58	155,105	168,368	22,604	6.01	3,761
1980	188,462.97	151,006	163,918	24,545	6.36	3,859
1981	22,410.41	17,711	19,225	3,185	6.71	475
1982	212,772.99	165,763	179,937	32,836	7.07	4,644
1983	18,209.20	15,680	17,021	1,188	6.83	174
1984	66,244.22	56,520	61,353	4,891	7.13	686
1985	307,449.58	259,703	281,910	25,540	7.43	3,437
1986	204,348.80	170,754	185,355	18,994	7.75	2,451
1987	288,048.12	237,928	258,273	29,775	8.09	3,680
1988	230,032.07	187,637	203,681	26,351	8.45	3,118
1989	261,779.80	210,680	228,695	33,085	8.83	3,747
1990	311,312.32	248,085	269,298	42,014	9.03	4,653
1991	310,891.92	243,957	264,817	46,075	9.44	4,881
1992	183,362.47	142,161	154,317	29,045	9.69	2,997
1993	588,178.33	448,074	486,388	101,790	10.14	10,038
1994	572,521.74	429,907	466,667	105,855	10.42	10,159
1995	282,314.48	208,659	226,501	55,813	10.74	5,197
1996	482,265.67	350,414	380,377	101,889	11.07	9,204
1997	1,177,161.05	839,669	911,467	265,694	11.42	23,266
1998	1,146,830.38	801,749	870,305	276,525	11.80	23,434
1999	597,039.84	410,047	445,109	151,931	12.05	12,608
2000	941,093.72	631,474	685,470	255,624	12.46	20,516
2001	2,170,051.51	1,425,290	1,547,163	622,889	12.76	48,816
2002	2,091,121.37	1,341,663	1,456,385	634,736	13.08	48,527
2003	1,742,718.76	1,089,896	1,183,090	559,629	13.43	41,670
2004	1,735,706.31	1,055,657	1,145,924	589,782	13.80	42,738
2005	1,846,400.71	1,089,376	1,182,526	663,875	14.19	46,785
2006	2,265,078.65	1,297,437	1,408,378	856,701	14.48	59,164
2007	3,186,638.21	1,760,618	1,911,164	1,275,474	14.92	85,488
2008	2,517,483.70	1,341,819	1,456,555	1,060,929	15.26	69,524
2009	2,218,784.66	1,136,462	1,233,638	985,147	15.63	63,029
2010	3,887,346.58	1,911,797	2,075,270	1,812,077	15.93	113,752
2011	3,067,985.20	1,437,351	1,560,255	1,507,730	16.35	92,216
2012	3,148,577.58	1,402,376	1,522,290	1,626,288	16.70	97,383
2013	1,932,421.59	811,037	880,387	1,052,035	17.17	61,272
2014	2,768,510.70	1,093,562	1,187,070	1,581,441	17.49	90,420
2015	2,510,344.01	923,053	1,001,981	1,508,363	17.91	84,219
2016	2,638,794.11	896,926	973,620	1,665,174	18.29	91,043
2017	8,625,975.67	2,671,465	2,899,895	5,726,081	18.76	305,228
2018	14,281,784.75	3,993,187	4,334,635	9,947,150	19.11	520,521
2019	15,520,296.20	3,833,513	4,161,307	11,358,989	19.56	580,725
2020	17,689,223.76	3,774,880	4,097,661	13,591,563	19.96	680,940

SURVIVOR CURVE: IOWA 32-S0.5
 NET SALVAGE PERCENT: 0

2021	4,544,785.15	810,790	880,119	3,664,666	20.34	180,170
2022	282,944.48	40,008	43,429	239,515	20.74	11,548
2023	14,568,667.22	1,493,288	1,620,975	12,947,692	21.17	611,606
2024	15,239,498.75	941,801	1,022,332	14,217,167	21.52	660,649
2025	21,704,371.01	881,197	956,546	20,747,825	21.66	957,887
	161,988,768.96	45,892,986	49,817,170	112,171,599		5,818,487

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 19.30 3.59

SURVIVOR CURVE: IOWA 20-S2
NET SALVAGE PERCENT: 0

2024	33,182.24	2,671	1,518	31,664	16.19	1,956
2025	4,867,339.64	253,588	144,117	4,723,222	16.69	282,997
	4,900,521.88	256,259	145,635	4,754,887		284,953

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.70 5.81

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1922	5,724.56	5,725	5,725			
1923	56,280.77	56,281	56,281			
1924	50,712.09	50,518	50,712			
1925	54,877.82	54,439	54,878			
1926	49,253.74	48,627	49,254			
1927	56,995.57	56,001	56,996			
1928	50,101.17	48,990	50,101			
1929	50,624.03	49,262	50,495	129	1.48	87
1930	44,886.32	43,458	44,546	340	1.75	194
1931	31,437.41	30,283	31,041	396	2.02	196
1932	33,698.91	32,296	33,105	594	2.29	259
1933	34,597.98	32,981	33,807	791	2.57	308
1934	35,860.04	34,002	34,853	1,007	2.85	353
1935	22,806.58	21,509	22,048	759	3.14	242
1936	39,823.65	37,355	38,290	1,534	3.41	450
1937	44,300.75	41,321	42,356	1,945	3.70	526
1938	60,971.21	56,548	57,964	3,007	3.99	754
1939	10,305.82	9,504	9,742	564	4.27	132
1940	18,048.04	16,552	16,966	1,082	4.57	237
1941	24,871.91	22,679	23,247	1,625	4.85	335
1942	22,776.23	20,648	21,165	1,611	5.15	313
1943	12,000.84	10,814	11,085	916	5.45	168
1944	8,298.45	7,434	7,620	678	5.75	118
1945	6,487.87	5,778	5,923	565	6.01	94
1946	24,793.26	21,949	22,499	2,294	6.30	364
1947	46,985.16	41,338	42,373	4,612	6.61	698
1948	49,029.31	42,879	43,953	5,076	6.90	736
1949	99,083.67	86,113	88,269	10,815	7.20	1,502
1950	90,593.93	78,223	80,181	10,413	7.51	1,387
1951	93,586.26	80,297	82,307	11,279	7.81	1,444
1952	61,820.24	52,693	54,012	7,808	8.12	962
1953	92,041.18	77,917	79,868	12,173	8.44	1,442
1954	114,703.74	96,435	98,849	15,855	8.76	1,810
1955	148,436.07	123,931	127,034	21,402	9.08	2,357
1956	164,350.71	136,202	139,612	24,739	9.42	2,626
1957	167,646.10	137,897	141,350	26,296	9.76	2,694
1958	171,630.98	140,082	143,589	28,042	10.11	2,774
1959	165,328.83	133,887	137,239	28,090	10.46	2,685
1960	154,202.92	123,839	126,940	27,263	10.83	2,517
1961	159,068.67	126,676	129,848	29,221	11.20	2,609
1962	160,947.17	127,031	130,211	30,736	11.59	2,652
1963	140,609.98	109,982	112,736	27,874	11.98	2,327
1964	163,041.25	126,342	129,505	33,536	12.38	2,709
1965	140,237.18	107,600	110,294	29,943	12.80	2,339
1966	117,267.05	89,081	91,311	25,956	13.22	1,963
1967	140,732.48	105,805	108,454	32,278	13.65	2,365
1968	162,331.33	120,716	123,738	38,593	14.10	2,737
1969	141,051.86	103,737	106,334	34,718	14.55	2,386
1970	154,505.47	112,312	115,124	39,381	15.02	2,622
1971	215,169.68	154,569	158,439	56,731	15.49	3,662
1972	256,551.22	182,010	186,567	69,984	15.98	4,379
1973	280,195.23	196,238	201,151	79,044	16.48	4,796
1974	185,715.36	128,346	131,559	54,156	16.99	3,188
1975	269,595.94	183,767	188,368	81,228	17.51	4,639
1976	152,097.04	102,209	104,768	47,329	18.04	2,624

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1977	312,574.10	206,980	212,162	100,412	18.58	5,404
1978	262,106.09	170,940	175,220	86,886	19.13	4,542
1979	166,337.68	106,759	109,432	56,906	19.70	2,889
1980	239,328.73	151,124	154,908	84,421	20.27	4,165
1981	404,226.15	250,988	257,272	146,954	20.85	7,048
1982	389,961.58	237,947	243,904	146,058	21.44	6,812
1983	236,188.89	161,293	165,331	70,858	19.70	3,597
1984	482,129.73	325,486	333,635	148,495	19.93	7,451
1985	423,391.72	280,624	287,650	135,742	20.56	6,602
1986	266,996.04	173,654	178,002	88,994	21.19	4,200
1987	325,609.48	208,911	214,141	111,468	21.46	5,194
1988	296,163.65	186,168	190,829	105,335	22.11	4,764
1989	140,585.65	86,516	88,682	51,904	22.76	2,280
1990	215,872.74	130,733	134,006	81,867	23.06	3,550
1991	568,743.96	336,696	345,126	223,618	23.72	9,427
1992	738,545.75	429,390	440,141	298,405	24.06	12,403
1993	377,830.50	214,343	219,709	158,122	24.73	6,394
1994	382,155.39	211,294	216,584	165,571	25.40	6,519
1995	275,036.84	148,905	152,633	122,404	25.76	4,752
1996	1,847,597.18	972,945	997,305	850,292	26.45	32,147
1997	1,922,584.10	988,785	1,013,541	909,043	26.83	33,882
1998	1,407,477.59	702,331	719,915	687,563	27.53	24,975
1999	1,348,302.80	655,410	671,819	676,484	27.93	24,221
2000	1,503,956.68	707,160	724,865	779,092	28.64	27,203
2001	2,006,566.01	916,198	939,137	1,067,429	29.06	36,732
2002	2,828,869.38	1,245,268	1,276,446	1,552,423	29.78	52,130
2003	2,138,937.38	910,973	933,781	1,205,156	30.22	39,879
2004	2,801,248.27	1,145,991	1,174,683	1,626,565	30.94	52,572
2005	3,039,355.23	1,197,506	1,227,488	1,811,867	31.40	57,703
2006	2,556,121.63	967,748	991,977	1,564,145	31.87	49,079
2007	2,649,023.77	956,298	980,241	1,668,783	32.60	51,190
2008	3,045,332.07	1,050,030	1,076,319	1,969,013	33.09	59,505
2009	3,245,202.83	1,065,400	1,092,074	2,153,129	33.58	64,119
2010	3,134,257.96	976,008	1,000,444	2,133,814	34.09	62,594
2011	2,160,549.03	635,417	651,326	1,509,223	34.60	43,619
2012	2,203,396.37	609,019	624,267	1,579,129	35.13	44,951
2013	1,857,801.20	479,870	491,885	1,365,916	35.66	38,304
2014	2,057,266.82	493,333	505,685	1,551,582	36.20	42,861
2015	2,338,518.65	516,345	529,273	1,809,246	36.75	49,231
2016	2,902,939.52	587,845	602,563	2,300,377	37.09	62,021
2017	3,377,737.32	616,775	632,217	2,745,520	37.67	72,883
2018	2,933,234.75	478,704	490,689	2,442,546	38.04	64,210
2019	3,348,288.89	479,140	491,136	2,857,153	38.43	74,347
2020	3,196,418.81	393,160	403,003	2,793,416	38.63	72,312
2021	4,082,268.16	416,391	426,816	3,655,452	38.87	94,043
	77,746,128.10	28,425,909	29,132,944	48,613,184		1,513,467

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 32.10 1.95

SURVIVOR CURVE: IOWA 50-R0.5
NET SALVAGE PERCENT: 0

1888	92.52	93	93		
1903	19.22	19	19		
1923	734.42	734	734		
1925	132.42	132	132		
1927	124.42	122	124		
1930	75.73	72	76		
1934	139.64	128	140		
1936	72.28	65	72		
1937	101.94	91	102		
1941	900.62	773	901		
1942	835.88	711	836		
1943	2,476.82	2,087	2,477		
1945	660.48	546	660		
1946	247.36	202	247		
1947	494.84	401	495		
1948	148.37	119	148		
1949	2,124.04	1,688	2,124		
1950	1,209.21	951	1,209		
1951	1,161.44	905	1,161		
1952	7,393.75	5,701	7,394		
1953	10,125.80	7,726	10,126		
1954	13,047.10	9,851	12,953	94	11.75
1955	19,666.94	14,691	19,317	350	12.50
1956	29,782.71	22,003	28,932	851	13.09
1957	26,960.52	19,697	25,900	1,061	13.43
1958	15,702.81	11,344	14,916	787	13.81
1959	31,026.34	22,159	29,137	1,889	14.31
1960	19,609.01	13,844	18,204	1,405	14.64
1961	16,954.40	11,827	15,551	1,403	15.09
1962	32,606.53	22,472	29,549	3,058	15.52
1963	20,013.30	13,621	17,910	2,103	15.93
1964	15,164.43	10,190	13,399	1,765	16.34
1965	50,156.16	33,274	43,752	6,404	16.81
1966	35,220.01	23,055	30,315	4,905	17.27
1967	20,084.74	12,971	17,056	3,029	17.71
1968	29,182.63	18,589	24,443	4,740	18.16
1969	35,708.05	22,425	29,487	6,221	18.63
1970	33,565.80	20,771	27,312	6,254	19.07
1971	80,550.21	49,120	64,588	15,962	19.51
1972	42,130.42	25,295	33,261	8,869	19.98
1973	50,259.44	29,713	39,070	11,189	20.46
1974	5,622.74	3,271	4,301	1,322	20.98
1975	15,860.09	9,075	11,933	3,927	21.34
1976	34,883.05	19,625	25,805	9,078	21.87
1977	13,318.63	7,365	9,684	3,635	22.30
1978	10,964.97	5,956	7,832	3,133	22.87
1979	118,558.48	63,215	83,122	35,436	23.34
1980	104,032.27	54,450	71,597	32,435	23.83
1981	123,441.67	63,350	83,299	40,143	24.34
1982	169,232.96	85,124	111,930	57,303	24.85
1983	86,096.70	56,970	74,910	11,187	21.68
1984	100,359.71	65,254	85,803	14,557	22.29
1985	154,637.04	99,370	130,662	23,975	22.47
1986	356,369.01	224,762	295,541	60,828	23.08
1987	161,277.65	100,379	131,989	29,289	23.32

SURVIVOR CURVE: IOWA 50-R0.5
NET SALVAGE PERCENT: 0

1988	475,256.07	291,617	383,450	91,806	23.56	3,897
1989	441,844.00	265,504	349,113	92,731	24.19	3,833
1990	239,096.97	141,426	185,962	53,135	24.46	2,172
1991	396,160.01	230,407	302,964	93,196	24.76	3,764
1992	104,736.43	59,846	78,692	26,044	25.07	1,039
1993	82,552.26	46,295	60,874	21,678	25.38	854
1994	154,455.26	84,920	111,662	42,793	25.73	1,663
1995	168,974.57	90,976	119,625	49,350	26.08	1,892
1996	142,445.46	75,012	98,634	43,811	26.46	1,656
1997	163,085.34	83,875	110,288	52,797	26.83	1,968
1998	81,304.11	40,790	53,635	27,669	27.23	1,016
1999	118,735.05	58,346	76,720	42,015	27.34	1,537
2000	155,236.45	74,172	97,529	57,707	27.78	2,077
2001	97,019.22	45,250	59,500	37,519	27.94	1,343
2002	126,306.03	57,078	75,052	51,254	28.40	1,805
2003	197,524.98	86,792	114,124	83,401	28.60	2,916
2004	186,501.02	79,487	104,518	81,983	28.83	2,844
2006	21,962.54	8,741	11,494	10,469	29.41	356
2007	144,559.05	55,641	73,163	71,396	29.43	2,426
2008	45,224.21	16,697	21,955	23,269	29.76	782
2010	1,291.73	438	576	716	29.83	24
2011	27,034.06	8,770	11,532	15,502	30.04	516
2012	475,133.27	145,961	191,925	283,208	30.25	9,362
2013	1,056,599.74	308,316	405,407	651,193	30.14	21,606
2014	145,107.02	39,759	52,279	92,828	30.25	3,069
2015	361,322.96	92,571	121,722	239,601	30.24	7,923
2016	612,364.74	145,865	191,799	420,566	30.11	13,968
2017	1,648,127.23	362,094	476,121	1,172,006	29.90	39,198
2018	613,698.66	122,862	161,552	452,147	29.62	15,265
2019	227,577.32	40,896	53,775	173,802	29.30	5,932
2020	444,830.26	70,105	92,182	352,648	28.95	12,181
2021	915,022.41	123,711	162,668	752,354	28.26	26,623
2022	34,230.60	3,789	4,982	29,249	27.44	1,066
2023	1,009,931.53	85,440	112,346	897,586	26.15	34,325
2024	158,681.00	8,791	11,559	147,122	24.16	6,089
2025	10,277.04	401	528	9,749	22.57	432

13,385,526.32	4,740,985	6,232,637	7,152,890	255,906

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.00 1.91

SURVIVOR CURVE: IOWA 20-S4
NET SALVAGE PERCENT: 0

1997	53,681.30	52,323	53,681
1998	24,038.51	23,264	24,039
2005	14,566,812.47	12,996,510	14,566,812
	14,644,532.28	13,072,097	14,644,532

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 26-R2.5
NET SALVAGE PERCENT: 0

2005	106,411.95	75,606	69,561	36,851	8.32	4,429
2006	228,496.48	157,068	144,511	83,985	8.83	9,511
2007	172,643.52	114,152	105,026	67,618	9.44	7,163
2008	109,025.87	69,308	63,767	45,259	9.98	4,535
2010	123,227.17	71,435	65,724	57,503	11.18	5,143
2011	401,850.84	220,737	203,089	198,762	11.83	16,802
2012	234,211.62	121,603	111,881	122,331	12.42	9,850
2013	61,258.09	29,814	27,430	33,828	13.09	2,584
2014	434,494.81	197,434	181,649	252,846	13.71	18,442
2015	1,245,680.94	524,183	482,275	763,406	14.34	53,236
2016	613,051.96	236,086	217,211	395,841	15.03	26,337
2017	2,071,556.38	723,595	665,744	1,405,812	15.68	89,656
2018	1,688,040.05	527,006	484,872	1,203,168	16.34	73,633
2019	238,815.47	65,435	60,204	178,611	17.00	10,507
2020	1,223,231.85	287,582	264,590	958,642	17.62	54,406
2021	5,260,559.41	1,024,757	942,828	4,317,731	18.26	236,458
2022	713,153.12	109,683	100,914	612,239	18.80	32,566
2023	316,501.69	35,195	32,381	284,121	19.32	14,706
2024	687,109.10	46,174	42,483	644,626	19.68	32,755
2025	556,205.79	24,751	22,772	533,434	19.70	27,078
	16,485,526.11	4,661,604	4,288,912	12,196,614		729,797

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.70 4.43

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1895	221.00	221	221			
1896	578.00	578	578			
1897	265.80	266	266			
1898	123.55	124	124			
1899	219.60	220	220			
1900	78.67	79	79			
1901	1,043.20	1,043	1,043			
1902	9.85	10	10			
1903	356.24	356	356			
1904	105.00	105	105			
1905	271.56	272	272			
1907	515.26	515	515			
1908	1.22	1	1			
1909	5.00	5	5			
1912	107.28	107	107			
1913	418.90	419	419			
1914	242.34	242	242			
1915	59.34	59	59			
1916	348.78	349	349			
1917	37.03	37	37			
1919	20.00	20	20			
1920	747.78	748	748			
1923	337.00	337	337			
1924	1,098.02	1,098	1,098			
1925	257.57	256	258			
1926	32.00	32	32			
1927	101.50	100	102			
1928	38.20	38	38			
1929	741.31	727	741			
1930	63.71	62	64			
1932	25.00	24	25			
1935	6.60	6	7			
1936	23.00	22	23			
1937	126.06	119	126			
1940	94.65	88	95			
1941	123.94	115	124			
1942	91.94	85	92			
1944	457.06	419	457			
1945	266.11	243	266			
1946	58.28	53	58			
1948	15.96	14	16			
1949	91.53	82	92			
1950	62.45	56	62			
1951	36.13	32	36			
1952	23.18	20	23			
1953	38.67	34	39			
1954	53.96	47	53	1		
1956	308.81	266	302	7	7.00	1
1958	3,915.91	3,325	3,770	146	9.13	16
1959	630.52	532	603	28	9.33	3
1960	914.07	765	867	47	9.40	5
1961	147.59	123	139	9	9.00	1
1962	74.23	61	69	5		
1963	124.21	101	115	9	9.00	1
1964	42.01	34	39	3		

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1965	515.64	413	468	48	12.00	4
1966	2,820.19	2,238	2,538	282	12.26	23
1967	76.52	60	68	9	9.00	1
1968	563.97	438	497	67	13.40	5
1969	267.27	205	232	35	11.67	3
1973	263.19	192	218	45	15.00	3
1977	149.17	103	117	32	16.00	2
1978	842.86	573	650	193	19.30	10
1980	349.81	230	261	89	22.25	4
1981	13,624.82	8,799	9,976	3,649	21.22	172
1983	6,888.56	4,646	5,268	1,621	20.52	79
1984	1,771.57	1,174	1,331	441	21.00	21
1987	565.85	354	401	165	23.57	7
2017	8,100.00	1,275	1,446	6,654	44.96	148
	52,996.00	35,792	39,415	13,581		509

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 26.70 0.96

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

1940	1,940.75	1,694	1,941			
1946	2,314.32	1,949	2,314			
1950	2,518.11	2,065	2,518			
1953	900.00	722	900			
1955	816.00	645	816			
1957	4,852.63	3,776	4,853			
1958	2,524.69	1,948	2,525			
1960	54,754.59	41,524	54,755			
1961	821.50	617	817	4		
1966	90,979.44	65,009	86,031	4,948	15.71	315
1967	5,073.76	3,586	4,746	328	16.40	20
1968	676.96	473	626	51	17.00	3
1970	142,304.18	97,051	128,434	13,870	17.49	793
1971	9,888.51	6,659	8,812	1,077	17.95	60
1972	1,375.00	914	1,210	165	18.33	9
1973	5,000.00	3,279	4,339	661	18.89	35
1974	1,418.21	917	1,214	204	18.55	11
1975	10,784.89	6,877	9,101	1,684	20.05	84
1976	5,313.42	3,338	4,417	896	20.36	44
1977	63.84	39	52	12	12.00	1
1978	4,217.69	2,567	3,397	821	21.61	38
1979	18,696.66	11,198	14,819	3,878	22.03	176
1980	10,542.35	6,207	8,214	2,328	22.60	103
1981	16,499.35	9,546	12,633	3,866	23.15	167
1982	54,197.62	30,794	40,752	13,446	23.76	566
1983	80,730.38	53,758	71,142	9,588	21.26	451
1984	43,591.84	28,527	37,752	5,840	21.87	267
1985	101,623.90	65,720	86,972	14,652	22.07	664
1986	44,299.34	28,112	37,203	7,096	22.67	313
1987	96,891.47	60,673	80,293	16,598	22.93	724
1988	38,799.49	23,807	31,505	7,294	23.53	310
1989	91,827.00	55,179	73,022	18,805	24.20	777
1990	36,742.86	21,733	28,761	7,982	24.48	326
1991	65,825.53	38,060	50,367	15,459	25.10	616
1992	54,823.60	31,145	41,216	13,608	25.39	536
1993	62,400.36	34,589	45,774	16,626	26.06	638
1994	2,028.79	1,103	1,460	569	25.86	22
1995	58,509.72	30,963	40,975	17,535	27.06	648
1996	160,880.26	83,288	110,221	50,659	27.40	1,849
1997	93,877.25	47,220	62,490	31,387	28.07	1,118
1998	1,345.00	660	873	472	27.76	17
2000	14,202.59	6,570	8,695	5,508	29.45	187
2001	5,875.07	2,640	3,494	2,381	29.76	80
2002	135,175.77	58,883	77,924	57,252	30.34	1,887
2003	112,363.08	47,350	62,662	49,701	30.77	1,615
2004	594,156.45	241,762	319,940	274,216	31.22	8,783
2005	64,448.44	25,264	33,434	31,014	31.68	979
2006	27,747.84	10,453	13,833	13,915	32.14	433
2007	87,883.96	31,726	41,985	45,899	32.60	1,408
2009	147,369.79	48,382	64,027	83,343	33.58	2,482
2010	1,349,754.19	422,473	559,088	790,666	33.84	23,365
2011	994,889.62	295,482	391,032	603,858	34.13	17,693
2012	137,972.66	38,508	50,960	87,013	34.67	2,510
2013	318,061.87	83,332	110,279	207,783	34.98	5,940
2014	293,657.65	71,741	94,940	198,718	35.31	5,628

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

2015	373,670.25	84,861	112,302	261,368	35.45	7,373
2017	602,207.51	114,058	150,941	451,267	36.03	12,525
2018	764,237.45	130,379	172,540	591,697	36.06	16,409
2019	1,044,895.30	157,570	208,523	836,372	36.14	23,143
2020	172,518.27	22,514	29,794	142,724	36.08	3,956
2021	459,915.49	50,177	66,403	393,512	36.07	10,910
2022	132,803.84	11,620	15,378	117,426	35.64	3,295
2023	9,215,259.86	597,149	790,249	8,425,011	34.90	241,404
2024	4,135,688.31	167,495	221,658	3,914,030	33.55	116,663
2025	29,725,403.99	820,421	1,085,720	28,639,684	32.31	886,403
	52,392,830.51	4,448,741	5,886,063	46,506,768		1,406,772

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.10 2.69

INTERIM SURVIVOR CURVE: IOWA 75-R0.5
 PROBABLE RETIREMENT DATE: 1-2029
 NET SALVAGE PERCENT: 0

2005	2,439,832.84	2,117,043	2,125,133	314,700	3.11	101,190
2007	2,391.03	2,043	2,051	340	3.15	108
2010	127,711.52	106,128	106,534	21,178	3.14	6,745
2011	713,419.33	586,288	588,528	124,891	3.13	39,901
2012	95,432.57	77,339	77,635	17,798	3.14	5,668
2014	39,512.90	30,990	31,108	8,405	3.14	2,677
2015	1,401,257.57	1,077,287	1,081,404	319,854	3.13	102,190
2016	2,970,840.94	2,229,616	2,238,136	732,705	3.13	234,091
2017	143,613.75	104,680	105,080	38,534	3.13	12,311
2018	17,834.81	12,540	12,588	5,247	3.13	1,676
2020	149,234.52	94,585	94,946	54,289	3.13	17,345
2021	11,786.05	6,902	6,929	4,857	3.13	1,552
	8,112,867.83	6,445,441	6,470,072	1,642,796		525,454

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 3.10 6.48

SURVIVOR CURVE.. 20-SQUARE
NET SALVAGE PERCENT: 0

1993	550.95	551	551			
1995	472.76	473	473			
1998	11,282.11	11,282	11,282			
1999	0.01					
2004	1,756.31	1,756	1,756			
2005	18,544.44	18,544	18,544			
2006	17,798.10	17,279	17,798			
2007	49,898.90	45,948	49,899			
2008	2,396.46	2,087	2,396			
2009	43,267.35	35,515	43,267			
2010	21,133.16	16,290	21,078	55	4.58	12
2011	533,064.91	384,249	497,186	35,879	5.58	6,430
2012	11,373.26	7,630	9,873	1,500	6.58	228
2013	119,832.95	74,396	96,262	23,571	7.58	3,110
2014	156,256.18	89,196	115,412	40,844	8.58	4,760
2015	1,434,510.51	747,136	966,730	467,781	9.58	48,829
2016	308,359.05	145,185	187,857	120,502	10.58	11,390
2017	30,662.08	12,904	16,697	13,965	11.58	1,206
2021	9,564.00	2,112	2,733	6,831	15.60	438
2023	17,592.44	2,126	2,751	14,842	17.59	844
	2,788,315.93	1,614,659	2,062,545	725,771		77,247

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.40 2.77

SURVIVOR CURVE.. 5-SQUARE
NET SALVAGE PERCENT: 0

2012	9,207.66	9,208	9,208	
2013	48,423.28	48,423	48,423	
2019	6,450.00	6,450	6,450	
2020	6,996.39	6,996	6,996	
2021	3,271,690.94	2,889,983	3,271,691	
2022	4,019,912.36	2,746,927	4,019,912	
2023	1,488,664.15	719,516	1,722,180	(233,515)
	8,851,344.78	6,427,503	9,084,860	(233,515)

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2012	6,374.27	5,701	1,959	4,415	1.58	2,794
2013	131.73	109	37	95	2.57	37
2017	14,554.52	8,167	2,806	11,749	6.58	1,786
2018	54,465.52	26,930	9,252	45,214	7.58	5,965
2019	15,022.00	6,426	2,207	12,815	8.58	1,494
2020	13,792.00	4,980	1,711	12,081	9.58	1,261
2021	30,392.00	8,949	3,074	27,318	10.58	2,582
	134,732.04	61,262	21,046	113,686		15,919

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.10 11.82

SURVIVOR CURVE: IOWA 10-L2.5
NET SALVAGE PERCENT: 0

1999	101,882.81	101,200	78,946	22,937	1.00	22,937
2002	810.66	784	612	199	1.00	199
2004	38,379.35	36,495	28,470	9,909	1.11	8,927
2007	9,684.11	8,953	6,984	2,700	1.50	1,800
2008	17,027.48	15,539	12,122	4,905	1.67	2,937
2009	30,635.75	27,511	21,461	9,175	1.86	4,933
2013	117,083.39	96,828	75,535	41,548	2.60	15,980
2014	64,737.08	52,178	40,704	24,033	2.75	8,739
2015	86,116.23	67,550	52,695	33,421	2.86	11,686
2016	2,216,179.41	1,684,075	1,313,741	902,438	2.98	302,832
2017	2,992,446.24	2,183,588	1,703,409	1,289,037	3.12	413,153
2018	5,530,907.35	3,810,795	2,972,787	2,558,120	3.35	763,618
2019	7,628,724.20	4,836,611	3,773,022	3,855,702	3.70	1,042,082
2020	13,519,046.44	7,630,150	5,952,251	7,566,795	4.18	1,810,238
2021	12,551,767.10	6,037,400	4,709,752	7,842,015	4.77	1,644,028
2022	4,476,782.05	1,724,009	1,344,893	3,131,889	5.46	573,606
2023	9,624,425.50	2,695,802	2,102,985	7,521,440	6.21	1,211,182
2024	15,355,959.93	2,575,194	2,008,898	13,347,062	7.03	1,898,586
2025	5,996,601.78	655,429	511,298	5,485,304	7.47	734,311
	80,359,196.86	34,240,091	26,710,565	53,648,632		10,471,774

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.10 13.03

SURVIVOR CURVE: IOWA 15-L2
NET SALVAGE PERCENT: 0

1999	9,584.60	8,659	873	8,712	2.82	3,089
2000	679.80	606	61	619	3.06	202
2006	12,598.50	10,347	1,043	11,556	4.22	2,738
2007	9,680.28	7,808	787	8,893	4.42	2,012
2008	8,436.33	6,686	674	7,762	4.56	1,702
2009	25,798.90	20,033	2,019	23,780	4.73	5,027
2010	4,790.00	3,640	367	4,423	4.87	908
2011	12,220.61	9,055	913	11,308	5.04	2,244
2012	16,328.70	11,786	1,188	15,141	5.17	2,929
2013	5,411.65	3,790	382	5,030	5.31	947
2015	37,604.85	24,327	2,452	35,153	5.69	6,178
2016	174,873.56	107,197	10,805	164,069	5.94	27,621
2017	314,002.39	179,986	18,141	295,861	6.27	47,187
2019	605,054.10	285,767	28,803	576,251	7.17	80,370
2020	161,730.91	66,488	6,701	155,030	7.76	19,978
2021	131,305.09	45,287	4,565	126,740	8.39	15,106
2023	302,084.00	59,782	6,026	296,058	9.79	30,241
2024	424,642.67	50,193	5,059	419,584	10.57	39,696
2025	3,339,877.01	256,837	25,887	3,313,990	11.00	301,272
	5,596,703.95	1,158,274	116,746	5,479,958		589,447

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.30 10.53

SURVIVOR CURVE.. 25-SQUARE
NET SALVAGE PERCENT: 0

2006	4.01	3	(16)	20	5.00	4
2007	54.28	40	(207)	261	6.53	40
2010	41.71	26	(134)	176	9.78	18
2011	356.77	206	(1,065)	1,422	10.61	134
	456.77	275	(1,422)	1,879		196

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.60 42.91

SURVIVOR CURVE.. 25-SQUARE
NET SALVAGE PERCENT: 0

1999	95,567.74	95,568	95,568			
2000	206,628.32	206,628	206,628			
2001	194,842.63	190,297	194,843			
2002	342,377.53	320,695	342,378			
2003	194,692.15	174,575	194,692			
2004	407,591.88	349,172	392,203	15,389	3.58	4,299
2005	76,325.20	62,333	70,015	6,310	4.58	1,378
2006	185,927.78	144,405	162,201	23,727	5.58	4,252
2007	597,992.98	440,523	494,812	103,181	6.58	15,681
2008	475,653.28	331,373	372,211	103,442	7.58	13,647
2009	782,846.62	514,072	577,425	205,422	8.58	23,942
2010	627,283.07	386,827	434,499	192,784	9.58	20,124
2011	435,299.31	251,024	281,960	153,339	10.58	14,493
2012	485,359.63	260,478	292,579	192,781	11.58	16,648
2013	637,198.96	316,478	355,480	281,719	12.58	22,394
2014	74,943.59	34,224	38,442	36,502	13.58	2,688
2015	27,411.96	11,422	12,830	14,582	14.58	1,000
2016	162,142.32	61,074	68,601	93,541	15.58	6,004
2017	118,415.22	39,867	44,780	73,635	16.58	4,441
2018	303,141.51	89,933	101,016	202,126	17.58	11,497
2019	33,285.49	8,543	9,596	23,689	18.58	1,275
2020	54,111.57	11,724	13,169	40,943	19.58	2,091
2021	186,954.14	33,029	37,099	149,855	20.58	7,282
2022	581,769.04	79,510	89,308	492,461	21.58	22,820
2023	162,601.60	15,719	17,656	144,946	22.58	6,419
2024	17,741.67	1,005	1,129	16,613	23.56	705
2025	29,826.02	1,094	1,229	28,597	24.07	1,188
	7,497,931.21	4,431,592	4,902,349	2,595,582		204,268

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 12.70 2.72

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2014	130,860.25	99,599	130,860			
2018	267,256.56	132,142	187,062	80,194	7.58	10,580
	398,116.81	231,741	317,922	80,195		10,580

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.60 2.66

SURVIVOR CURVE: IOWA 15-L2
NET SALVAGE PERCENT: 0

1961	1,382.14	1,382	1,382			
1962	500.32	500	500			
1975	249.00	249	249			
1985	8,150.85	8,104	8,151			
1987	5,373.47	5,285	5,373			
1988	1,400.00	1,367	1,400			
1989	14,875.00	14,463	14,875			
1991	819.84	787	810	10	1.43	7
1992	101,443.89	96,950	99,800	1,644	1.55	1,061
1993	41,878.30	39,776	40,945	933	1.71	546
1994	81,942.15	77,230	79,501	2,441	1.92	1,271
1995	14,000.00	13,115	13,501	499	2.05	243
1997	58,208.48	53,593	55,169	3,039	2.45	1,240
1999	277,765.45	250,933	258,311	19,454	2.82	6,899
2000	79,790.82	71,181	73,274	6,517	3.07	2,123
2001	32,082.44	28,358	29,192	2,890	3.21	900
2002	67,310.80	58,634	60,358	6,953	3.47	2,004
2003	74,205.44	63,876	65,754	8,451	3.62	2,335
2004	92,343.55	78,317	80,620	11,724	3.84	3,053
2005	216,476.04	180,757	186,071	30,405	4.03	7,545
2006	14,837.75	12,186	12,544	2,294	4.22	544
2007	143,955.43	116,114	119,528	24,427	4.42	5,526
2008	45,564.61	36,110	37,172	8,393	4.56	1,841
2009	32,445.05	25,194	25,935	6,510	4.73	1,376
2010	19,137.35	14,544	14,972	4,165	4.87	855
2011	390,239.38	289,167	297,669	92,570	5.04	18,367
2012	442,559.28	319,439	328,831	113,728	5.17	21,998
2013	250,091.30	175,139	180,288	69,803	5.31	13,146
2014	785,584.01	530,976	546,587	238,997	5.47	43,692
2015	960,693.32	621,473	639,745	320,948	5.69	56,406
2016	528,236.77	323,809	333,329	194,908	5.94	32,813
2017	1,667,424.65	955,768	983,868	683,557	6.27	109,020
2018	1,731,951.77	912,046	938,861	793,091	6.67	118,904
2019	1,148,092.73	542,244	558,186	589,907	7.17	82,274
2020	2,386,140.84	980,942	1,009,783	1,376,358	7.76	177,366
2021	970,960.20	334,884	344,730	626,230	8.39	74,640
2022	2,101,472.09	575,173	592,083	1,509,389	9.07	166,416
2023	2,091,649.27	413,937	426,107	1,665,542	9.79	170,127
2024	358,337.57	42,356	43,601	314,737	10.57	29,776
2025	101,256.56	7,787	8,016	93,240	11.00	8,476
	17,340,827.91	8,274,145	8,517,071	8,823,756		1,162,790

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.60 6.71

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2009	9,733.27	9,733	9,733			
2010	585,792.89	585,793	585,793			
2011	3,933,791.95	3,780,807	3,705,903	227,889	1.00	227,889
2012	929,260.48	831,168	814,701	114,559	1.58	72,506
2013	826,747.38	684,365	670,807	155,940	2.58	60,442
2014	740,938.13	563,935	552,763	188,175	3.58	52,563
2015	1,163,312.65	807,851	791,846	371,467	4.58	81,106
2016	586,347.51	368,097	360,804	225,544	5.58	40,420
2017	693,822.26	389,311	381,598	312,224	6.58	47,450
2018	1,338,735.79	661,925	648,811	689,925	7.58	91,019
2019	643,967.93	275,477	270,019	373,949	8.58	43,584
2020	1,306,261.75	471,704	462,359	843,903	9.58	88,090
2021	5,106,313.68	1,503,503	1,473,717	3,632,597	10.58	343,346
2022	398,515.19	90,774	88,976	309,539	11.58	26,730
2023	1,410,245.69	227,205	222,704	1,187,542	12.58	94,399
2024	620.93	59	58	563	13.73	41
	19,674,407.48	11,251,707	11,040,592	8,633,816		1,269,585

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.80 6.45

SURVIVOR CURVE.. 18-SQUARE
NET SALVAGE PERCENT: 0

2017	16,889,405.25	7,897,317	8,980,749	7,908,656	9.58	825,538
2022	28,346.42	5,380	6,118	22,228	14.58	1,525
2023	32,077.26	4,307	4,898	27,180	15.58	1,745
	16,949,828.93	7,907,004	8,991,765	7,958,064		828,808

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.60 4.89

SURVIVOR CURVE.. 25-SQUARE
NET SALVAGE PERCENT: 0

2007	11,500.91	8,472	(853)	12,354	6.58	1,878
2011	13,689.76	7,894	(795)	14,485	10.58	1,369
2012	3,464.31	1,859	(187)	3,651	11.59	315
	28,654.98	18,225	(1,835)	30,490		3,562

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 8.60 12.43

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2006	60,163.72	60,164	60,164			
2007	90,002.57	90,003	90,003			
2008	29,406.65	29,407	29,407			
2009	8,926.15	8,926	8,926			
2010	64,622.48	64,622	64,622			
2011	33,696.54	32,386	30,340	3,357	1.00	3,357
2012	3,137.18	2,806	2,629	508	1.58	322
2013	372,369.14	308,240	288,764	83,605	2.58	32,405
2014	327,931.95	249,592	233,822	94,110	3.58	26,288
2015	91,070.54	63,243	59,247	31,824	4.58	6,948
2016	248,429.08	155,959	146,105	102,324	5.58	18,338
2018	251,437.65	124,321	116,465	134,973	7.58	17,806
2019	105,310.54	45,050	42,204	63,107	8.58	7,355
2020	74,963.75	27,070	25,359	49,605	9.58	5,178
2021	138,983.90	40,922	38,337	100,647	10.58	9,513
2022	7,916.45	1,803	1,689	6,227	11.57	538
2023	80,058.22	12,898	12,083	67,975	12.58	5,403
	1,988,426.51	1,317,412	1,250,166	738,261		133,451

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.50 6.71

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2018	46,650.00	23,066	40,448	6,202	7.58	818
2019	8,235.82	3,523	6,178	2,058	8.58	240
	54,885.82	26,589	46,626	8,260		1,058

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.80 1.93

PART III. EXPERIENCED NET SALVAGE

2021	TRANSACTION YEAR			
303.00	379,965			
303.01	4,236,929			
303.02	688,466			
303.03	30,357,603			
325.04	843			
327.00	72,321			
329.00	19,982			
332.00	49,572	283,431	5,356	(278,075)
333.00	393,211	598,259		(598,259)
334.00		193,592		(193,592)
352.00	563	1,982		(1,982)
354.00	1,857			
367.00	39,533	215,555		(215,555)
368.00	60,222			
369.00	138,531			
371.00	29,957			
374.02	66			
375.00	310,274			
376.00	7,185,821	3,204,911	29,218	(3,175,693)
378.00	456,433	167,996		(167,996)
380.00		3,085,110		(3,085,110)
381.00	1,935,950			
382.00	83,351	215,103		(215,103)
385.00	19,168			
387.00	275,472			
390.00	222,467			
391.01	12,798			
391.02	567,677			
391.03	2,440			
392.00	354,683		103,133	103,133
392.02	3,573,699		1,222,609	1,222,609
392.03	76,012			
393.00	14,500			
394.00	181,273			
394.20	282,036			
396.00	598,498			
397.02	640,286		2,900	2,900
397.20	1,032,020			
398.00	2,939			
TOTAL	54,297,418	7,965,939	1,363,215	(6,602,723)
2022	TRANSACTION YEAR			
303.00	1,528,279			
303.01	12,622,314			
332.00		1,324		(1,324)
333.00	12,996	128,575		(128,575)
337.00	11,277			
352.00	93,478			
367.00	144,454		6,939	6,939
369.00	94,291			
375.00	5,379			
376.00	5,286,975	262,145	(327)	(262,472)
378.00	570,425			
380.00	718,517			
381.00	448,543			
382.00	81,576	5,184		(5,184)

387.00	198,953			
390.00	12,752			
390.01	1,649,167			
391.01	53,442			
391.02	8,861,539			
391.03	404,100			
392.00	1,735,740		5,644	5,644
392.01	51,431			
392.02	6,677,435			
392.03	172,346			
392.04	6,345			
393.00	10,559			
394.00	101,959			
394.20	193,491			
396.00	1,519,851			
397.02	1,286,769			
397.20	19,826			
398.00	8,673			
TOTAL	44,582,882	397,228	12,255	(384,973)

2023**TRANSACTION YEAR**

303.00	16,339,592			
325.04	853			
332.00	161,325	2,544,899		(2,544,899)
334.00	286			
337.00	27,305			
352.02		181,890		(181,890)
354.01	86,119			
366.01	4,072			
367.00	96,916	1,774		(1,774)
369.00	4,814			
375.00	15,577			
376.00	6,064,305	8,652,109		(8,652,109)
378.00	264,921	4,928		(4,928)
380.00	3,762,326	743,999		(743,999)
381.00	1,670,355			
382.00		1,178		(1,178)
385.00	527			
390.00	1,595,344			
391.01	10,607			
391.02	2,451,171			
391.03	182,868			
392.01	30,168			
392.02	6,884,873			
394.00	191,545			
396.00	1,482,124			
397.02	183,962			
397.20	114,223			
TOTAL	41,626,178	12,130,777		(12,130,777)

2024**TRANSACTION YEAR**

303.00	15,875,601			
325.04	834			
332.00	189,953	12,327		(12,327)
333.00	230,478			
334.00	378			
351.00		178,852		(178,852)
352.01	2,289	284,716		(284,716)

353.01	43,751			
367.00	841,375	35,301		(35,301)
369.00	21,533	378,692		(378,692)
375.00	3,984	671		(671)
376.00	7,669,667	6,640,588		(6,640,588)
378.00	195,349	94,523		(94,523)
380.00	2,581,364	1,122,598		(1,122,598)
381.00	3,834,041			
382.00	5,895,137			
385.00	1,284			
387.00	303,093			
390.00	140,442			
391.01	15,372			
391.02	4,797,044			
391.03	38,196			
392.01	31,026			
392.02	11,550,342	8,391,000		8,391,000
393.00	5,438			
394.00	191,869			
396.00	615,887			
397.02	897,585			
397.20	277,732			
TOTAL	56,251,045	8,748,267	8,391,000	(357,267)

2025**TRANSACTION YEAR**

303.01	3,705,100			
303.02	21,442,054			
330.00	7			
331.00	24			
332.00	184,725	4,320		(4,320)
333.00	56			
334.00	2,037			
351.00		471,802		(471,802)
352.01	84,049	2,280,536		(2,280,536)
352.02	51,018			
353.01	20,132			
354.01	1,526			
355.00	4,589			
367.00	424,833	57,068		(57,068)
369.00	32,540	1,824,637		(1,824,637)
375.01	568			
375.31	157			
375.32	1,194			
376.01	4,575,938	4,598,591		(4,598,591)
376.02	2,108,060			
378.00	309,406	(28,955)		28,955
380.00	4,259,738	11,295,684		(11,295,684)
381.00	14,268,296			
382.00	11,092,985	(79,096)		79,096
385.00	4,815			
387.00	26,550			
390.00	321,911			
392.02	4,563,447	(84,065)	1,864,607	1,948,672
392.03	836,503			
396.00	373,616			
TOTAL	68,695,875	20,340,522	1,864,607	(18,475,914)
TOTAL	265,453,398	49,582,733	11,631,078	(37,951,655)

PEOPLES NATURAL GAS COMPANY LLC

PITTSBURGH, PENNSYLVANIA

2026 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION
ACCRUALS RELATED TO GAS PLANT
AS OF NOVEMBER 30, 2026

Prepared by:

**GANNETT FLEMING VALUATION
AND RATE CONSULTANTS, LLC**

PEOPLES NATURAL GAS COMPANY LLC

Pittsburgh, Pennsylvania

2026 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION ACCRUALS
RELATED TO GAS PLANT
AS OF NOVEMBER 30, 2026

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC

Mechanicsburg, Pennsylvania

Gannett Fleming Valuation
and Rate Consultants, LLC
(a **GFT** Company)

300 Sterling Parkway, Suite 200
Mechanicsburg, PA 17050
717.763.7211

March 9, 2026

Peoples Natural Gas Company, LLC
375 North Shore Drive, Suite 600
Pittsburgh, PA 15212-5322

Ladies and Gentlemen:

Pursuant to your request, we have determined the annual depreciation accruals applicable to gas plant in service. The results of our study as of November 30, 2026 are presented in the attached report. The results of our study as of November 30, 2025 are presented in our report titled "2025 Depreciation Study- Calculated Annual Depreciation Accruals Related to Gas Plant as of November 30, 2025". The same methods, procedures and estimates are used in both studies.

The attached report sets forth a description of the methods and procedures upon which the studies were based, the estimates of survivor curves and the calculated annual depreciation rates as of November 30, 2026.

Respectfully submitted,

GANNETT FLEMING VALUATION
AND RATE CONSULTANTS, LLC



JOHN J. SPANOS
President



MELISSA M. HOWARD
Project Manager

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PART I. INTRODUCTION

PEOPLES NATURAL GAS COMPANY LLC DEPRECIATION STUDY

PART I. INTRODUCTION

SCOPE

This report sets forth the results of the depreciation study conducted for Peoples Natural Gas Company LLC to determine the annual depreciation accrual rates and amounts for ratemaking purposes applicable to the original cost of gas plant as of November 30, 2026.

The depreciation accrual rates and amounts presented herein are based on estimated survivor curves and on methods and procedures set forth in previous orders approved by the Pennsylvania Public Utility Commission. The estimated survivor curves presented herein were based on the results of a service life study incorporating statistical analyses of data through 2022.

BASIS OF STUDY

Depreciation and Amortization

Depreciation, as defined in the Uniform System of Accounts, is the loss in service value not restored by current maintenance, incurred in connection with the consumption or prospective retirement of gas plant in the course of service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among the causes to be given consideration are wear and tear, decay, action of the elements, inadequacy, obsolescence, changes in the art, changes in demand, and requirements of public authorities.

Depreciation, as used in accounting, is a method of distributing fixed capital costs over a period of time by allocating annual amounts to expense. Each annual amount of

such depreciation expense is part of that year's total cost of providing utility service. Normally, the period of time over which the fixed capital cost is allocated to the cost of service is equal to the period of time over which an item renders service, that is, the item's service life. The most prevalent method of allocation is to distribute an equal amount of cost to each year of service life. This method is known as the straight line method of depreciation.

The calculation of annual and accrued depreciation based on the straight line method requires the estimation of survivor curves and the selection of group depreciation procedures. These subjects are discussed in the sections which follow. For most plant accounts, depreciation accruals and accrued depreciation were calculated using the straight line method, the remaining life basis, the average service life (ASL) procedure for plant installed prior to 1983 and the equal life group (ELG) procedure for property installed subsequent to 1982. The calculations were based on the attained ages and estimated service life characteristics for each depreciable group of gas property. For certain general plant accounts, the amortization amounts, annual and accrued, were based on the age of the vintage and the selected amortization period.

Survivor curves were used to reflect the expected dispersion of retirements, thus providing a consistent method of estimating service lives and depreciation for mass property. Iowa type curves were used to depict the estimated survivor curves. For life span groups, the estimate of life characteristics is consistent because the calculated lives of the units within a group are obtained by employing a single probable retirement date for the entire group.

Service Life Estimates

The method of estimating service life consisted of compiling the service life history of the plant accounts, subaccounts or depreciable groups, reducing this history to trends through the use of acceptable actuarial techniques, and forecasting the trend of survivors for each depreciable group on the basis of interpretations of past trends and consideration of Company plans for the future. The combination of the historical trend and the estimated future trend yielded a complete pattern of life characteristics from which the average service life was derived.

The Company's service life estimates used in the depreciation calculation incorporated historical data compiled through 2022 from the property records of the Company. Such data included plant additions, retirements, transfers and other activity. Generally, retirement data for the years 1939 through 2022 were used in the actuarial life table computations which were the primary statistical support of the service life estimates.

A general understanding of the function of the plant and information with respect to the reasons for past retirements and the expected future causes of retirement was obtained through field trips conducted during the course of the service life study. Discussions with operating and management personnel also provided information regarding plans for the future which was incorporated in the interpretation and extrapolation of the statistical analyses.

AMORTIZATION OF NET SALVAGE

Inasmuch as this report relates primarily to Pennsylvania rate regulation practices, under which experienced costs of negative net salvage are amortized after their occurrence, no adjustments for expected salvage were made to either the annual depreciation accrual or the calculated accrued depreciation for the individual accounts. The annual provision for recovering negative net salvage is based on the amortization of net salvage over a five-year period.

PART II. ESTIMATION OF SURVIVOR CURVES

PART II. ESTIMATION OF SURVIVOR CURVES

The calculation of annual depreciation based on the straight line method requires the estimation of survivor curves and the selection of group depreciation procedures. The estimation of survivor curves is discussed below, and the development of net salvage is discussed in later sections of this report.

SURVIVOR CURVES

The use of an average service life for a property group implies that the various units in the group have different lives. Thus, the average life may be obtained by determining the separate lives of each of the units or by constructing a survivor curve by plotting the number of units which survive at successive ages.

The survivor curve graphically depicts the amount of property existing at each age throughout the life of an original group. From the survivor curve, the average life of the group, the remaining life expectancy, the probable life, and the frequency curve can be calculated. In Figure 1, a typical smooth survivor curve and the derived curves are illustrated. The average life is obtained by calculating the area under the survivor curve, from age zero to the maximum age, and dividing this area by the ordinate at age zero. The remaining life expectancy at any age can be calculated by obtaining the area under the curve, from the observation age to the maximum age, and dividing this area by the percent surviving at the observation age. For example, in Figure 1, the remaining life at age 30 is equal to the crosshatched area under the survivor curve divided by 29.5 percent surviving at age 30. The probable life at any age is developed by adding the age and remaining life. If the probable life of the property is calculated for each year of age, the probable life curve shown in the chart can be developed. The frequency curve presents the number of units retired in each age interval. It is derived by obtaining the differences between the amount of property surviving at the beginning and at the end of each interval.

This study has incorporated the use of Iowa curves developed from a retirement rate analysis of historical retirement history. A discussion of the concepts of survivor curves and of the development of survivor curves using the retirement rate method is presented below.

Iowa Type Curves

The range of survivor characteristics usually experienced by utility and industrial properties is encompassed by a system of generalized survivor curves known as the Iowa type curves. There are four families in the Iowa system, labeled in accordance with the location of the modes of the retirements (or the portion of the frequency curve with the highest level of retirements) in relationship to the average life and the relative height of the modes. The left moded curves, presented in Figure 2, are those in which the greatest frequency of retirement occurs to the left of, or prior to, average service life. The symmetrical moded curves, presented in Figure 3, are those in which the greatest frequency of retirement occurs at average service life. The right moded curves, presented in Figure 4, are those in which the greatest frequency occurs to the right of, or after, average service life. The origin moded curves, presented in Figure 5, are those in which the greatest frequency of retirement occurs at the origin, or immediately after age zero. The letter designation of each family of curves (L, S, R or O) represents the location of the mode of the associated frequency curve with respect to the average service life. The numbers represent the relative heights of the modes of the frequency curves within each family. A higher number designates a higher mode curve.

The Iowa curves were developed at the Iowa State College Engineering Experiment Station through an extensive process of observation and classification of the ages at which industrial property had been retired. A report of the study which resulted in the classification of property survivor characteristics into 18 type curves, which constitute three of the four families, was published in 1935 in the form of the Experiment Station's Bulletin 125.

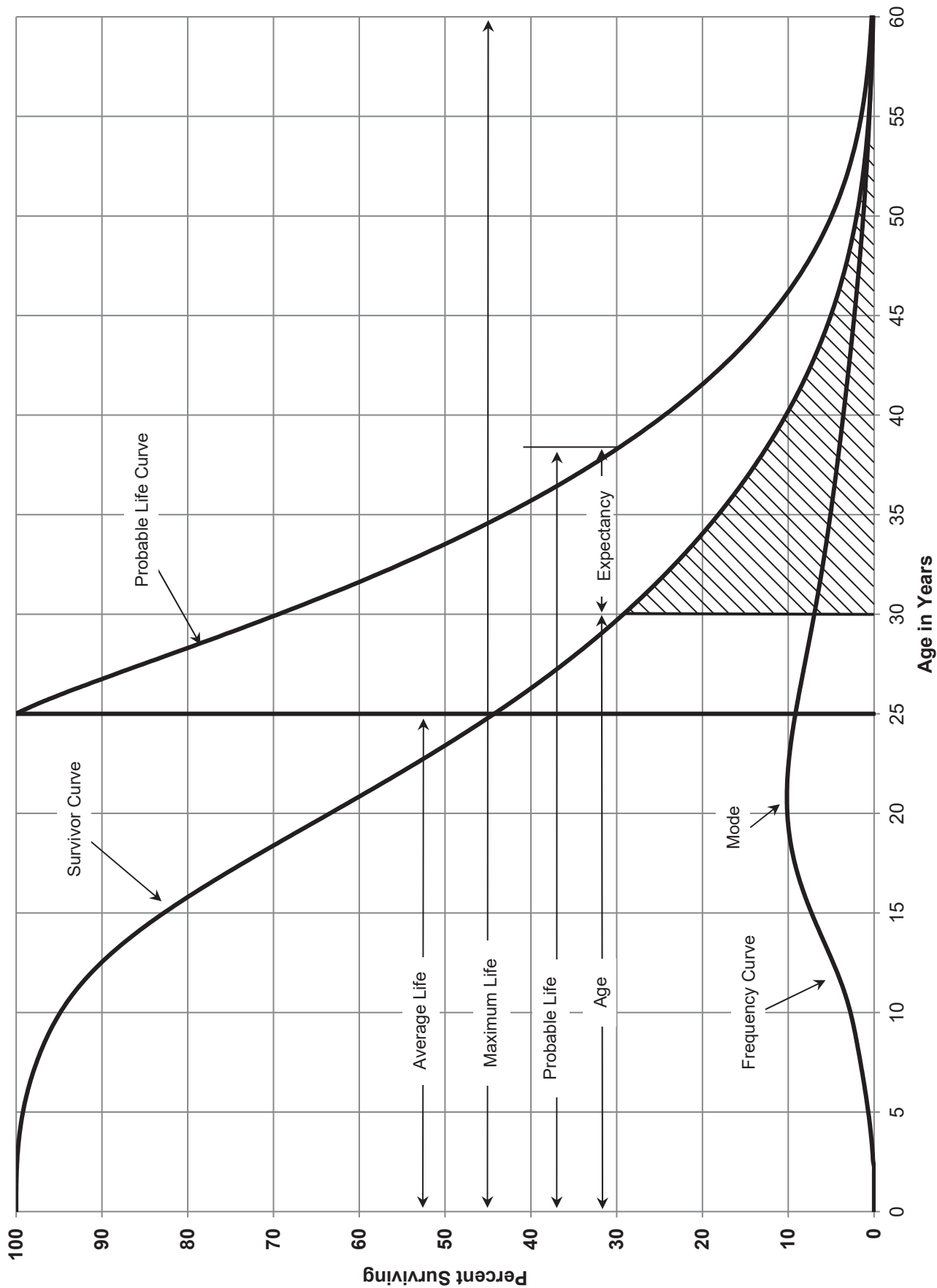


FIGURE 1. TYPICAL SURVIVOR CURVE AND DERIVED CURVES

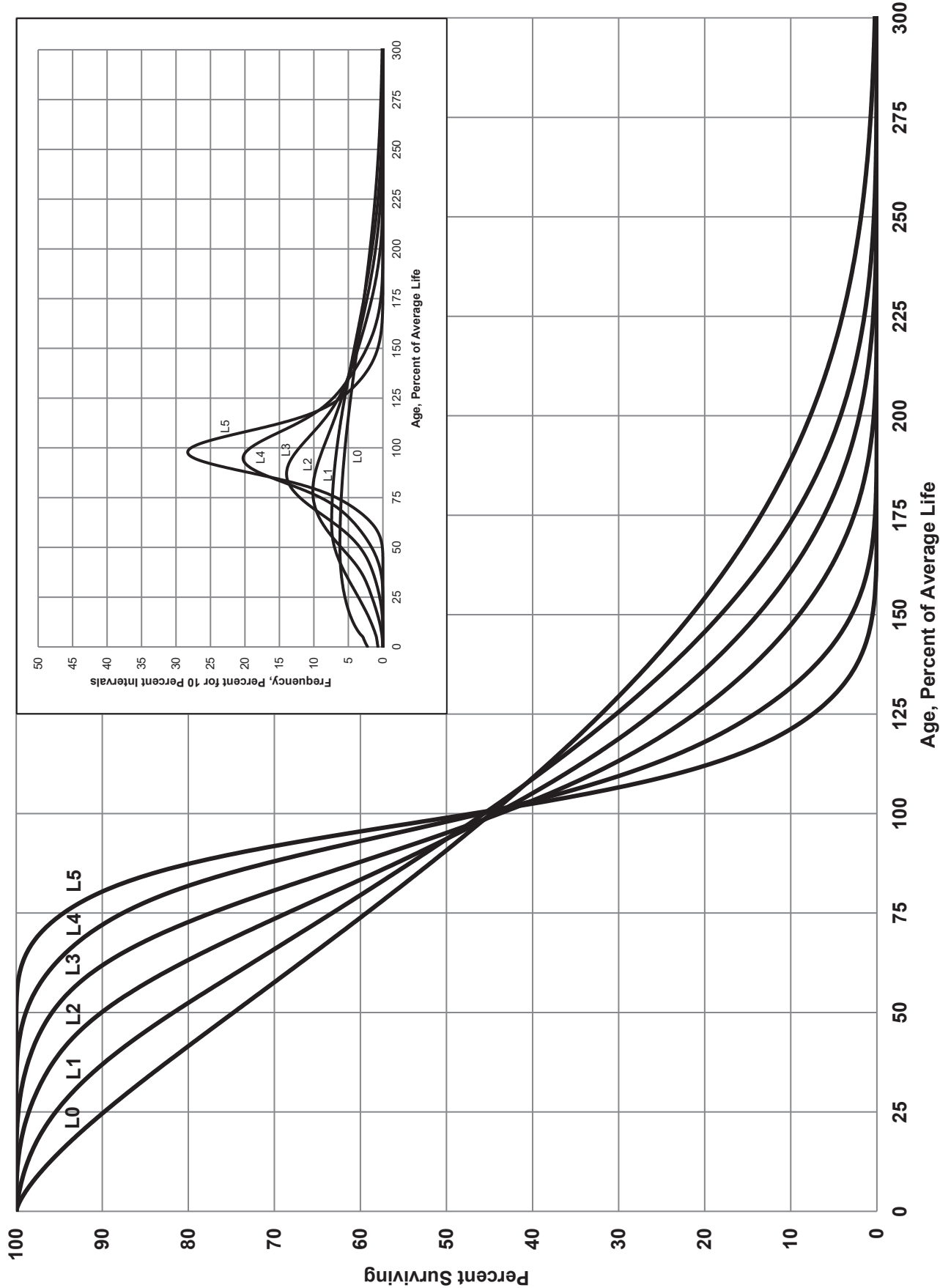


FIGURE 2. LEFT MODAL OR "L" IOWA TYPE SURVIVOR CURVES

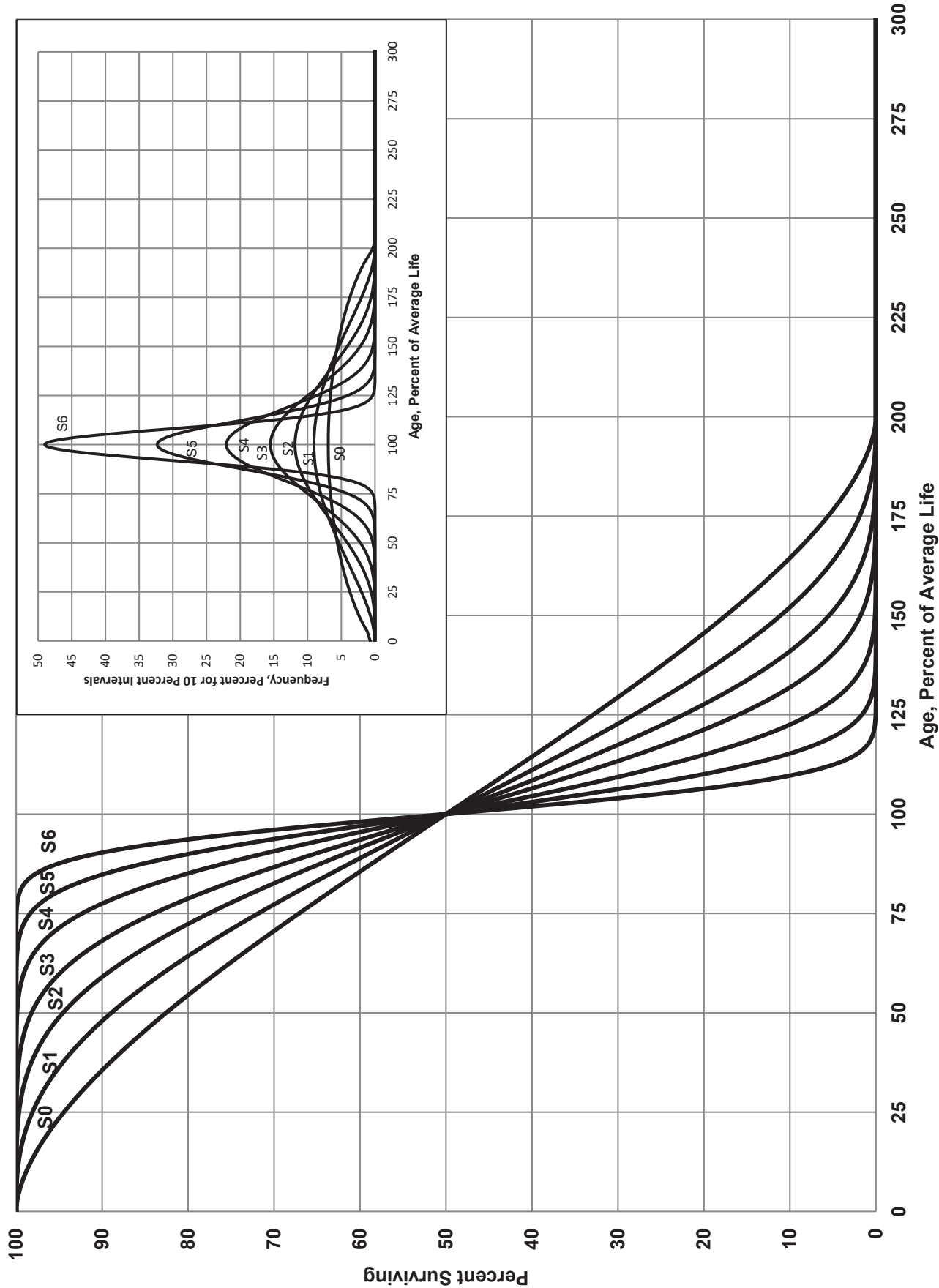


FIGURE 3. SYMMETRICAL OR "S" IOWA TYPE SURVIVOR CURVES

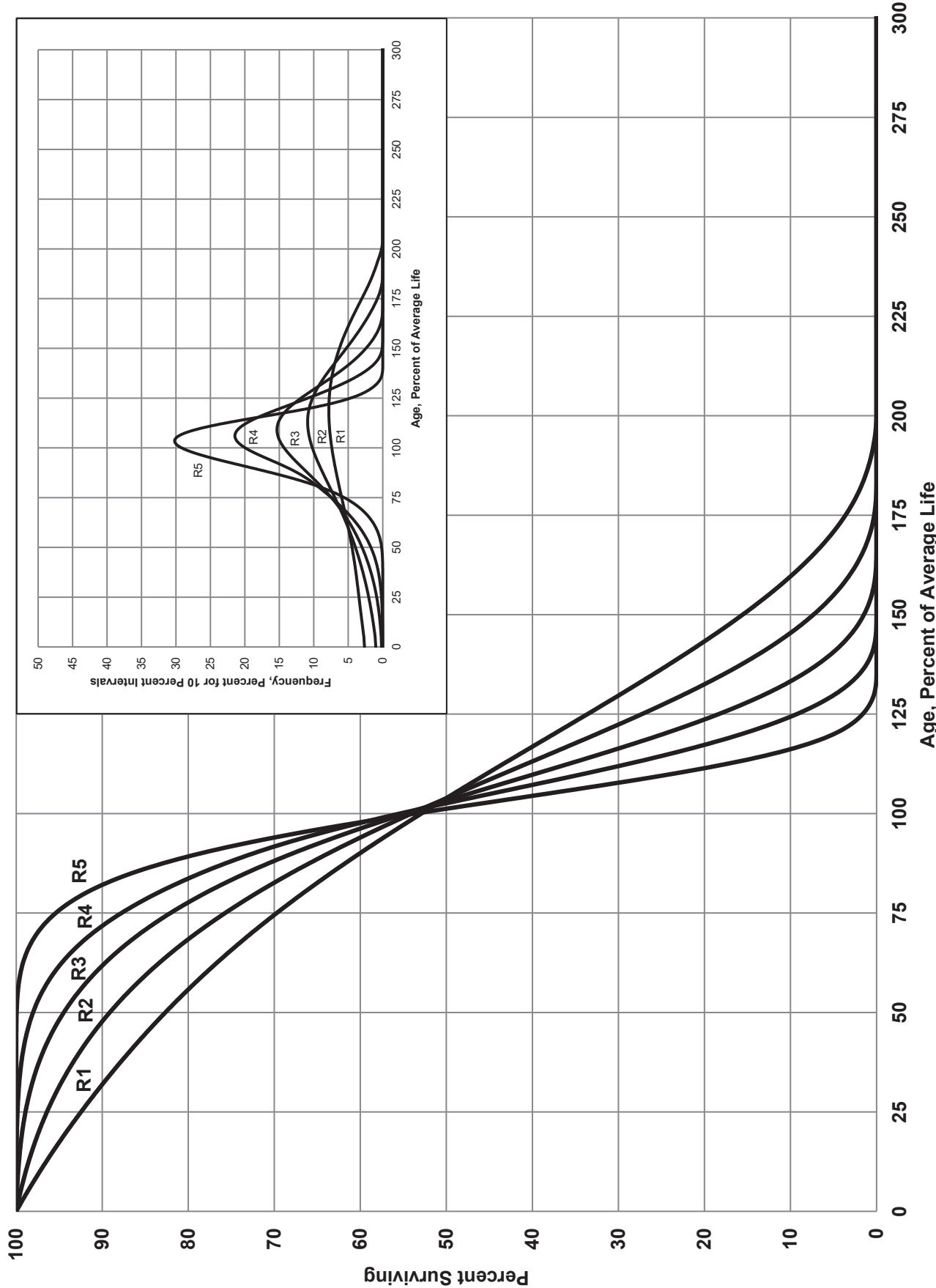


FIGURE 4. RIGHT MODAL OR "R" IOWA TYPE SURVIVOR CURVES

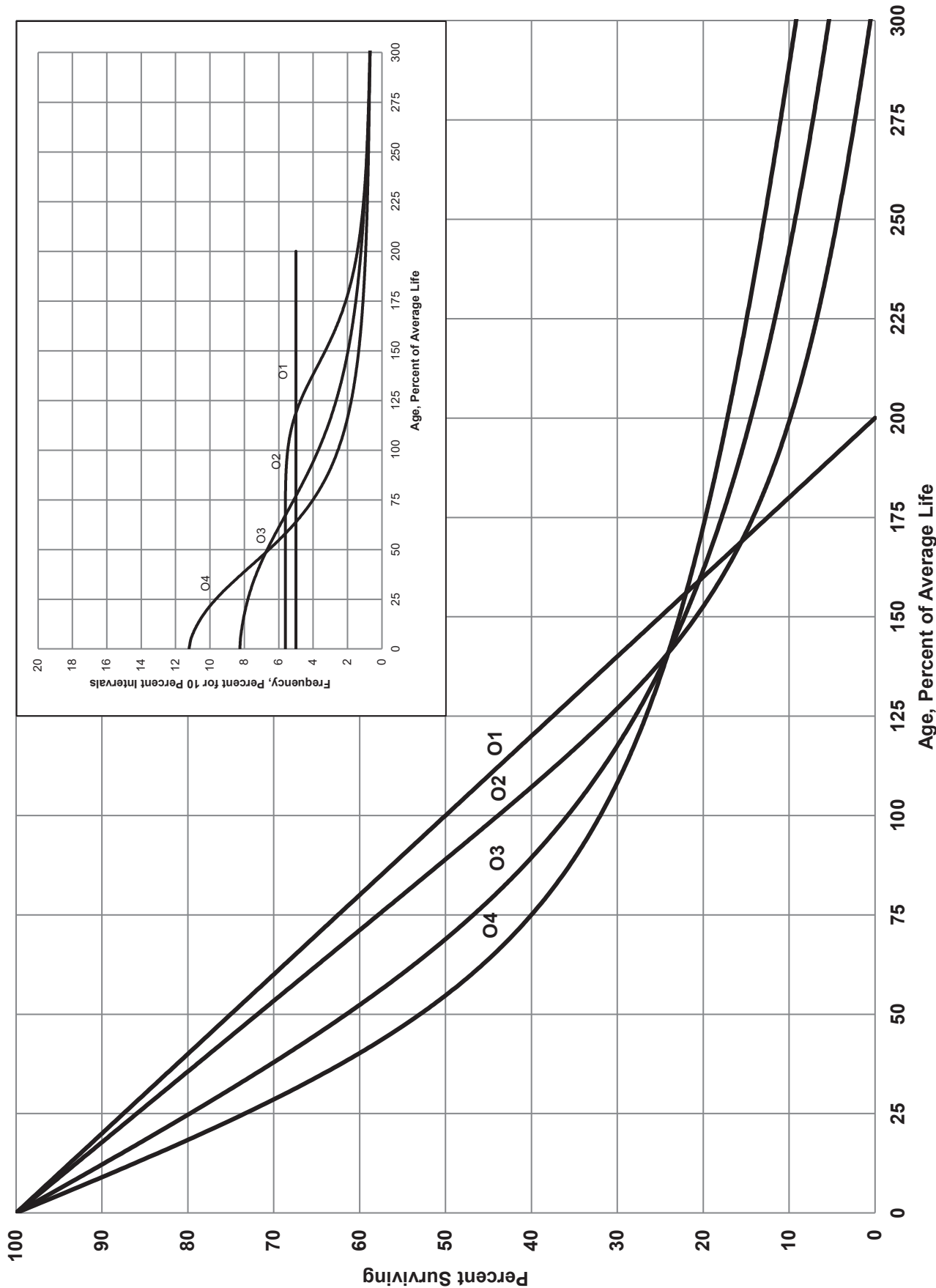


FIGURE 5. ORIGIN MODAL OR "O" IOWA TYPE SURVIVOR CURVES

These curve types have also been presented in subsequent Experiment Station bulletins and in the text, "Engineering Valuation and Depreciation."¹ In 1957, Frank V. B. Couch, Jr., an Iowa State College graduate student, submitted a thesis presenting his development of the fourth family consisting of the four O type survivor curves.

Retirement Rate Method of Analysis

The retirement rate method is an actuarial method of deriving survivor curves using the average rates at which property of each age group is retired. The method relates to property groups for which aged accounting experience is available and is the method used to develop the original stub survivor curves in this study. The method (also known as the annual rate method) is illustrated through the use of an example in the following text and is also explained in several publications including "Statistical Analyses of Industrial Property Retirements,"² "Engineering Valuation and Depreciation,"³ and "Depreciation Systems."⁴

The average rate of retirement used in the calculation of the percent surviving for the survivor curve (life table) requires two sets of data: first, the property retired during a period of observation, identified by the property's age at retirement; and second, the property exposed to retirement at the beginning of the age intervals during the same period. The period of observation is referred to as the experience band. The band of years which represent the installation dates of the property exposed to retirement during the experience band is referred to as the placement band. An example of the calculations used in the development of a life table follows. The example includes schedules of annual aged property transactions, a schedule of plant exposed to retirement, a life table and illustrations of smoothing the stub survivor curve.

¹Marston, Anson, Robley Winfrey and Jean C. Hempstead. Engineering Valuation and Depreciation, 2nd Edition. New York, McGraw-Hill Book Company. 1953.

²Winfrey, Robley, Statistical Analyses of Industrial Property Retirements. Iowa State College, Engineering Experiment Station, Bulletin 125. 1935.

³Marston, Anson, Robley Winfrey, and Jean C. Hempstead, Supra Note 1.

⁴Wolf, Frank K. and W. Chester Fitch. Depreciation Systems. Iowa State University Press. 1994.

Schedules of Annual Transactions in Plant Records

The property group used to illustrate the retirement rate method is observed for the experience band 2015-2024 for which there were placements during the years 2010-2024. In order to illustrate the summation of the aged data by age interval, the data were compiled in the manner presented in Schedules 1 and 2 on pages II-11 and II-12. In Schedule 1, the year of installation (year placed) and the year of retirement are shown. The age interval during which a retirement occurred is determined from this information. In the example which follows, \$10,000 of the dollars invested in 2010 were retired in 2015. The \$10,000 retirement occurred during the age interval between 4½ and 5½ years on the basis that approximately one-half of the amount of property was installed prior to and subsequent to July 1 of each year. That is, on the average, property installed during a year is placed in service at the midpoint of the year for the purpose of the analysis. All retirements also are stated as occurring at the midpoint of a one-year age interval of time, except the first age interval which encompasses only one-half year.

The total retirements occurring in each age interval in a band are determined by summing the amounts for each transaction year-installation year combination for that age interval. For example, the total of \$143,000 retired for age interval 4½-5½ is the sum of the retirements entered on Schedule 1 immediately above the stair step line drawn on the table beginning with the 2015 retirements of 2010 installations and ending with the 2024 retirements of the 2019 installations. Thus, the total amount of 143 for age interval 4½-5½ equals the sum of:

$$10 + 12 + 13 + 11 + 13 + 13 + 15 + 17 + 19 + 20.$$

SCHEDULE 1. RETIREMENTS FOR EACH YEAR 2015-2024
SUMMARIZED BY AGE INTERVAL

Experience Band 2015-2024												Placement Band 2010-2024											
Year		Retirements, Thousands of Dollars										Total During		Age									
		During Year																					
Placed	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Age Interval	Age Interval											
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)											
2010	10	11	12	13	14	16	23	24	25	26	26	13½-14½											
2011	11	12	13	15	16	18	20	21	22	19	44	12½-13½											
2012	11	12	13	14	16	17	19	21	22	18	64	11½-12½											
2013	8	9	10	11	11	13	14	15	16	17	83	10½-11½											
2014	9	10	11	12	13	14	16	17	19	20	93	9½-10½											
2015	4	9	10	11	12	13	14	15	16	20	105	8½-9½											
2016		5	11	12	13	14	15	16	18	20	113	7½-8½											
2017			6	12	13	15	16	17	19	19	124	6½-7½											
2018				6	13	15	16	17	19	19	131	5½-6½											
2019					7	14	16	17	19	20	143	4½-5½											
2020						8	18	20	22	23	146	3½-4½											
2021							9	20	22	25	150	2½-3½											
2022								11	23	25	151	1½-2½											
2023									11	24	153	½-1½											
2024										13	80	0-½											
Total	53	68	86	106	128	157	196	231	273	308	1,606												

SCHEDULE 2. OTHER TRANSACTIONS FOR EACH YEAR 2015-2024
SUMMARIZED BY AGE INTERVAL

Experience Band 2015-2024				Placement Band 2010-2024									
Acquisitions, Transfers and Sales, Thousands of Dollars													
		During Year										Total During Age Interval (12)	Age Interval (13)
Year Placed (1)	2015 (2)	2016 (3)	2017 (4)	2018 (5)	2019 (6)	2020 (7)	2021 (8)	2022 (9)	2023 (10)	2024 (11)			
2010	-	-	-	-	-	-	60 ^a	-	-	-	-	-	13½-14½
2011	-	-	-	-	-	-	-	-	-	-	-	-	12½-13½
2012	-	-	-	-	-	-	-	-	-	-	-	-	11½-12½
2013	-	-	-	-	-	-	-	(5) ^b	-	-	-	60	10½-11½
2014	-	-	-	-	-	-	-	6 ^a	-	-	-	-	9½-10½
2015	-	-	-	-	-	-	-	-	-	-	-	(5)	8½-9½
2016	-	-	-	-	-	-	-	-	-	-	-	6	7½-8½
2017	-	-	-	-	-	-	-	-	-	-	-	-	6½-7½
2018	-	-	-	-	-	-	-	(12) ^b	-	-	-	-	5½-6½
2019	-	-	-	-	-	-	-	-	22 ^a	-	-	-	4½-5½
2020	-	-	-	-	-	-	-	(19) ^b	-	-	-	10	3½-4½
2021	-	-	-	-	-	-	-	-	-	-	-	-	2½-3½
2022	-	-	-	-	-	-	-	-	-	(102) ^c	-	(121)	1½-2½
2023	-	-	-	-	-	-	-	-	-	-	-	-	½-1½
2024	-	-	-	-	-	-	-	-	-	-	-	-	0-½
Total	-	-	-	-	-	-	60	(30)	22	(102)	-	(50)	

^a Transfer Affecting Exposures at Beginning of Year

^b Transfer Affecting Exposures at End of Year

^c Sale with Continued Use

Parentheses Denote Credit Amount.

In Schedule 2, other transactions which affect the group are recorded in a similar manner. The entries illustrated include transfers and sales. The entries which are credits to the plant account are shown in parentheses. The items recorded on this schedule are not totaled with the retirements, but are used in developing the exposures at the beginning of each age interval.

Schedule of Plant Exposed to Retirement

The development of the amount of plant exposed to retirement at the beginning of each age interval is illustrated in Schedule 3 on page II-14. The surviving plant at the beginning of each year from 2015 through 2024 is recorded by year in the portion of the table headed "Annual Survivors at the Beginning of the Year." The last amount entered in each column is the amount of new plant added to the group during the year. The amounts entered in Schedule 3 for each successive year following the beginning balance or addition are obtained by adding or subtracting the net entries shown on Schedules 1 and 2. For the purpose of determining the plant exposed to retirement, transfers-in are considered as being exposed to retirement in this group at the beginning of the year in which they occurred, and the sales and transfers-out are considered to be removed from the plant exposed to retirement at the beginning of the following year. Thus, the amounts of plant shown at the beginning of each year are the amounts of plant from each placement year considered to be exposed to retirement at the beginning of each successive transaction year. For example, the exposures for the installation year 2020 are calculated in the following manner:

Exposures at age 0	= amount of addition	= \$750,000
Exposures at age ½	= \$750,000 - \$ 8,000	= \$742,000
Exposures at age 1½	= \$742,000 - \$18,000	= \$724,000
Exposures at age 2½	= \$724,000 - \$20,000 - \$19,000	= \$685,000
Exposures at age 3½	= \$685,000 - \$22,000	= \$663,000

SCHEDULE 3. PLANT EXPOSED TO RETIREMENT
JANUARY 1 OF EACH YEAR 2015-2024
SUMMARIZED BY AGE INTERVAL

Experience Band 2015-2024										Placement Band 2010-2024		
Year	Exposures, Thousands of Dollars										Total at	
	Annual Survivors at the Beginning of the Year										Beginning of Age Interval	Age Interval
	2015 (2)	2016 (3)	2017 (4)	2018 (5)	2019 (6)	2020 (7)	2021 (8)	2022 (9)	2023 (10)	2024 (11)		
Placed (1)											(12)	(13)
2010	255	245	234	222	209	195	239	216	192	167	167	13½-14½
2011	279	268	256	243	228	212	194	174	153	131	323	12½-13½
2012	307	296	284	271	257	241	224	205	184	162	531	11½-12½
2013	338	330	321	311	300	289	276	262	242	226	823	10½-11½
2014	376	367	357	346	334	321	307	297	280	261	1,097	9½-10½
2015	420 ^a	416	407	397	386	374	361	347	332	316	1,503	8½-9½
2016		460 ^a	455	444	432	419	405	390	374	356	1,952	7½-8½
2017			510 ^a	504	492	479	464	448	431	412	2,463	6½-7½
2018				580 ^a	574	561	546	530	501	482	3,057	5½-6½
2019					660 ^a	653	639	623	628	609	3,789	4½-5½
2020						750 ^a	742	724	685	663	4,332	3½-4½
2021							850 ^a	841	821	799	4,955	2½-3½
2022								960 ^a	949	926	5,719	1½-2½
2023									1,080 ^a	1,069	6,579	½-1½
2024										1,220 ^a	7,490	0-½
Total	1,975	2,382	2,824	3,318	3,872	4,494	5,247	6,017	6,852	7,799	44,780	

^aAdditions during the year

For the entire experience band 2015-2024, the total exposures at the beginning of an age interval are obtained by summing diagonally in a manner similar to the summing of the retirements during an age interval (Schedule 1). For example, the figure of 3,789, shown as the total exposures at the beginning of age interval $4\frac{1}{2}$ - $5\frac{1}{2}$, is obtained by summing:

$$255 + 268 + 284 + 311 + 334 + 374 + 405 + 448 + 501 + 609.$$

Original Life Table

The original life table, illustrated in Schedule 4 on page II-16, is developed from the totals shown on the schedules of retirements and exposures, Schedules 1 and 3, respectively. The exposures at the beginning of the age interval are obtained from the corresponding age interval of the exposure schedule, and the retirements during the age interval are obtained from the corresponding age interval of the retirement schedule. The retirement ratio is the result of dividing the retirements during the age interval by the exposures at the beginning of the age interval. The percent surviving at the beginning of each age interval is derived from survivor ratios, each of which equals one minus the retirement ratio. The percent surviving is developed by starting with 100% at age zero and successively multiplying the percent surviving at the beginning of each interval by the survivor ratio, i.e., one minus the retirement ratio for that age interval. The calculations necessary to determine the percent surviving at age $5\frac{1}{2}$ are as follows:

Percent surviving at age $4\frac{1}{2}$	=	88.15	
Exposures at age $4\frac{1}{2}$	=	3,789,000	
Retirements from age $4\frac{1}{2}$ to $5\frac{1}{2}$	=	143,000	
Retirement Ratio	=	$143,000 \div 3,789,000$	= 0.0377
Survivor Ratio	=	$1.000 - 0.0377$	= 0.9623
Percent surviving at age $5\frac{1}{2}$	=	$(88.15) \times (0.9623)$	= 84.83

The totals of the exposures and retirements (columns 2 and 3) are shown for the purpose of checking with the respective totals in Schedules 1 and 3. The ratio of the total retirements to the total exposures, other than for each age interval, is meaningless.

SCHEDULE 4. ORIGINAL LIFE TABLE
CALCULATED BY THE RETIREMENT RATE METHOD

Experience Band 2015-2024

Placement Band 2010-2024

(Exposure and Retirement Amounts are in Thousands of Dollars)

Age at Beginning of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retirement Ratio	Survivor Ratio	Percent Surviving at Beginning of Age Interval
(1)	(2)	(3)	(4)	(5)	(6)
0.0	7,490	80	0.0107	0.9893	100.00
0.5	6,579	153	0.0233	0.9767	98.93
1.5	5,719	151	0.0264	0.9736	96.62
2.5	4,955	150	0.0303	0.9697	94.07
3.5	4,332	146	0.0337	0.9663	91.22
4.5	3,789	143	0.0377	0.9623	88.15
5.5	3,057	131	0.0429	0.9571	84.83
6.5	2,463	124	0.0503	0.9497	81.19
7.5	1,952	113	0.0579	0.9421	77.11
8.5	1,503	105	0.0699	0.9301	72.65
9.5	1,097	93	0.0848	0.9152	67.57
10.5	823	83	0.1009	0.8991	61.84
11.5	531	64	0.1205	0.8795	55.60
12.5	323	44	0.1362	0.8638	48.90
13.5	<u>167</u>	<u>26</u>	0.1557	0.8443	42.24
					35.66
Total	<u>44,780</u>	<u>1,606</u>			

Column 2 from Schedule 3, Column 12, Plant Exposed to Retirement.

Column 3 from Schedule 1, Column 12, Retirements for Each Year.

Column 4 = Column 3 Divided by Column 2.

Column 5 = 1.0000 Minus Column 4.

Column 6 = Column 5 Multiplied by Column 6 as of the Preceding Age Interval.

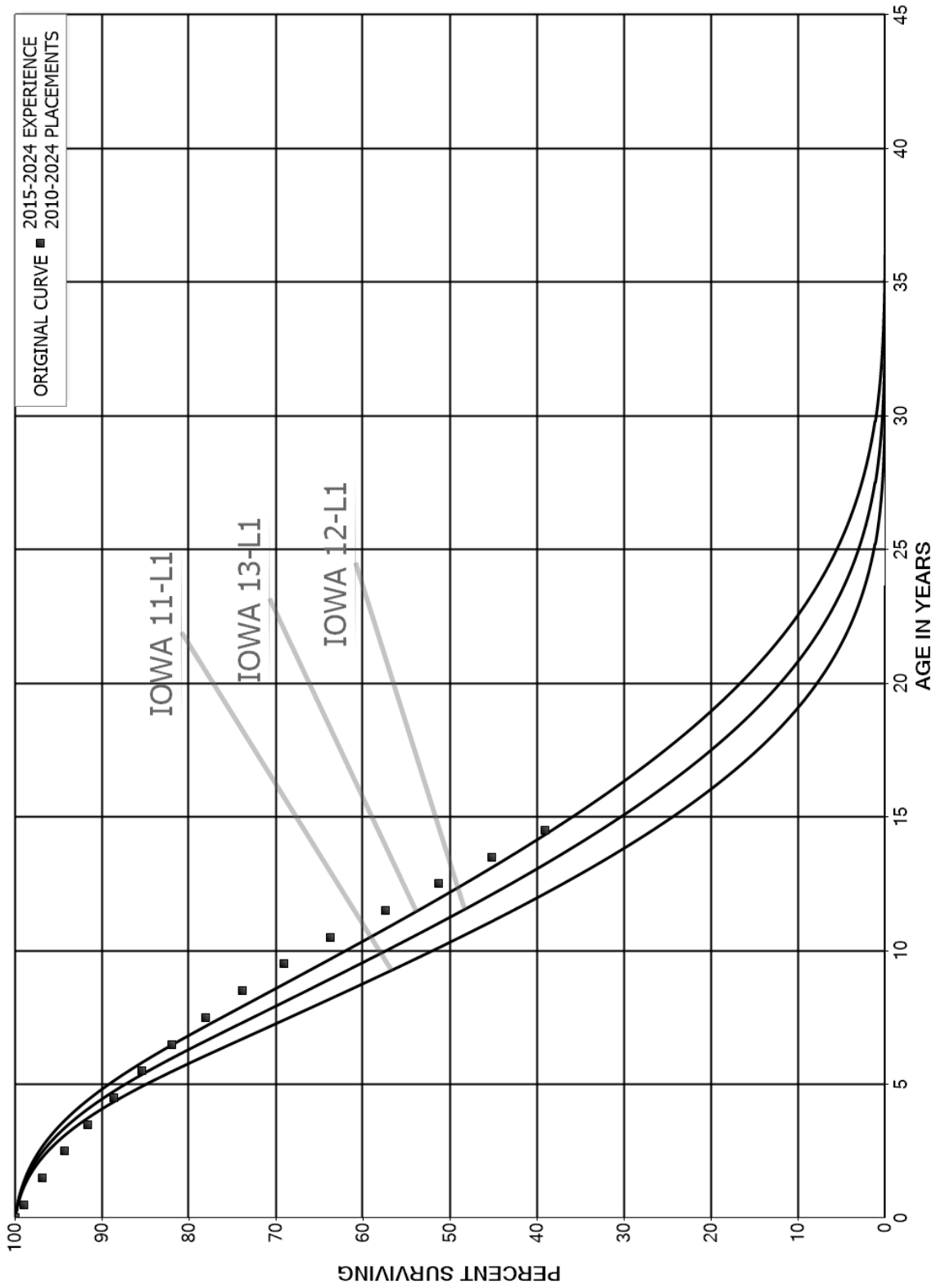
The original survivor curve is plotted from the original life table (column 6, Schedule 4). When the curve terminates at a percent surviving greater than zero, it is called a stub survivor curve. Survivor curves developed from retirement rate studies generally are stub curves.

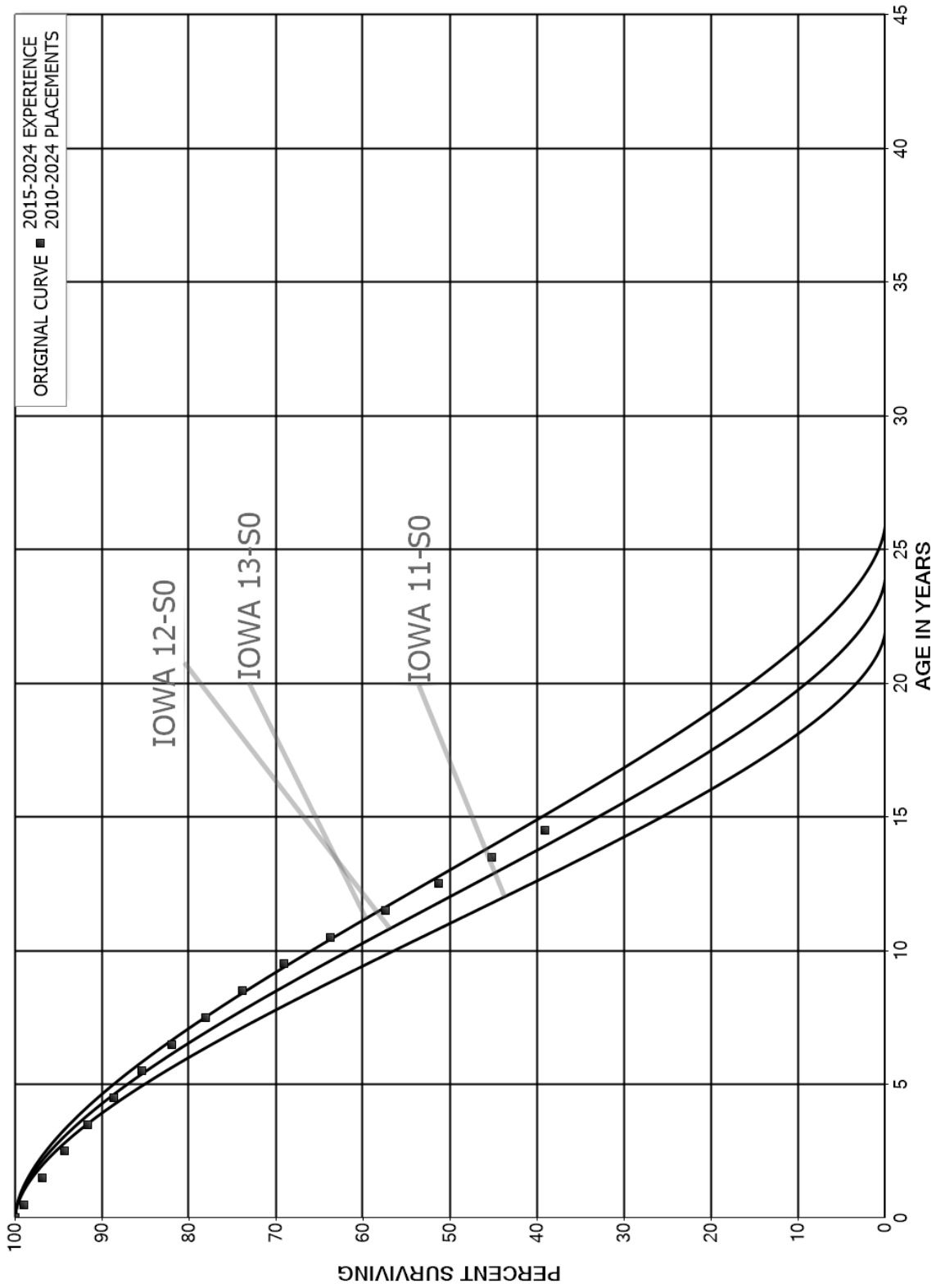
Smoothing the Original Survivor Curve

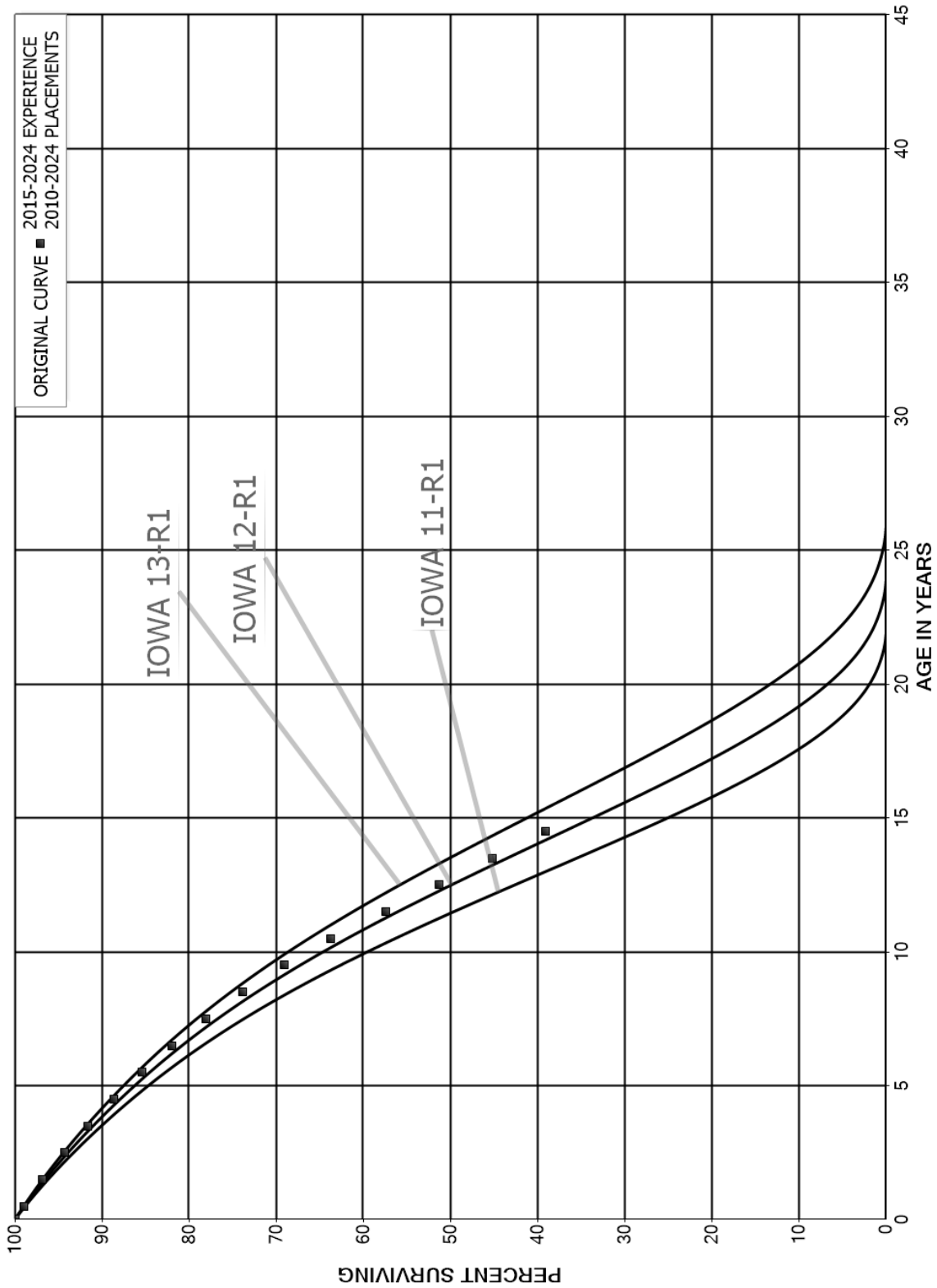
The smoothing of the original survivor curve eliminates any irregularities and serves as the basis for the preliminary extrapolation to zero percent surviving of the original stub curve. Even if the original survivor curve is complete from 100% to zero percent, it is desirable to eliminate any irregularities, as there is still an extrapolation for the vintages which have not yet lived to the age at which the curve reaches zero percent. In this study, the smoothing of the original curve with established type curves was used to eliminate irregularities in the original curve.

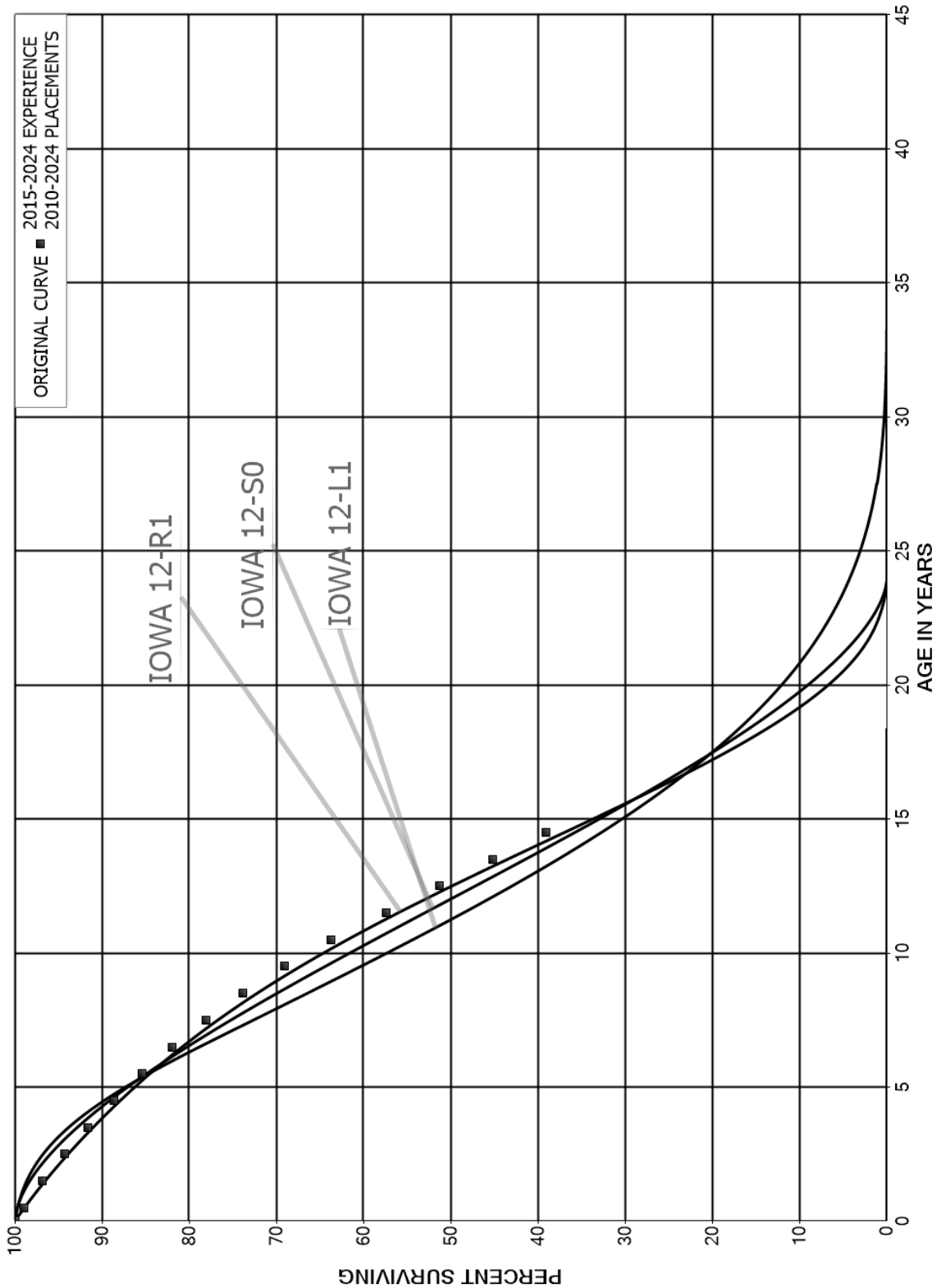
The Iowa type curves are used in this study to smooth those original stub curves which are expressed as percents surviving at ages in years. Each original survivor curve was compared to the Iowa curves using visual and mathematical matching in order to determine the better fitting smooth curves. In Figures 6, 7, and 8, the original curve developed in Schedule 4 is compared with the L, S, and R Iowa type curves which most nearly fit the original survivor curve. In Figure 6, the L1 curve with an average life between 12 and 13 years appears to be the best fit. In Figure 7, the S0 type curve with a 12-year average life appears to be the best fit and appears to be better than the L1 fitting. In Figure 8, the R1 type curve with a 12-year average life appears to be the best fit and appears to be better than either the L1 or the S0.

In Figure 9, the three fittings, 12-L1, 12-S0 and 12-R1 are drawn for comparison purposes. It is probable that the 12-R1 Iowa curve would be selected as the most representative of the plotted survivor characteristics of the group.









PART III. SERVICE LIFE CONSIDERATIONS

PART III. SERVICE LIFE CONSIDERATIONS

Field Trips

In order to be familiar with the operation of the Company and observe representative portions of the plant, field trips have been conducted periodically. A general understanding of the function of the plant and information with respect to the reasons for past retirements and the expected future causes of retirements are obtained during these field trips. This knowledge and information were incorporated in the interpretation and extrapolation of the statistical analyses.

During the extensive period of years our firm has been conducting depreciation studies for the Company, the field trips have resulted in the review of operations of the Company's property numerous times. The following is a list of the locations visited during the past trips.

August 9, 2023

- Kitner Compression Station
- Pratt Drive Meter Set and Regulator Station
- Ricey Alley Regulator Station
- Hobo Camp Regulator Station

May 8, 2018

- Clever Road City Gate Station
- RA 140 District Regulator Station
- RA 64 District Regulator Station
- Pruitt Regulator Station
- Hays Regulator Station
- Michelina Regulator Station
- Whitaker Regulator Station

August 4, 2015

- Beaver Street Regulator Station
- Vogel/Austin Bleach Regulator Station
- Vogel CNG Regulator Station
- Armco Steel City Gate
- Station Butler Warehouse
- Complex Portmann
- Compressor Station Vardy
- Compressor Station

May 15 and 16, 2013

Dice Compressor Station
Chalfont Regulating Station
Jones Lane/LaSalle Meter Station
Newtown Regulator Station (LS1183)
Chestnut Regulator Station (LS1718)
Pitt Street Shop
Westinghouse Suite 303 Meter Station

April 23, 2013

Region B Service Center
Hays City Gate Station
Perrymont M & R Station
D317 Main Replacement Project
Pannier City Gate Station

April 6, 2010

Butler General Office
Building Portmann
Compressor Station
Portmann Regulator Station
Vardy Compressor Station
Armstrong District Office and Garage
Chickasaw Interconnection
Jefferson Shop and District
Office Alabran Compressor
Station Home Shop and Office
Kinter Compressor Station
Rubright Compressor Station
Tarentum/Allegheny District Office
Butler Warehouse Complex

August 14, 2008

Rager Mountain Compressor Station
Laurel Ridge Compressor Station
Greensburg Service Center
Armbrust Compressor Station
Pardos Excess Station
Wilkinsburg Service Center - Pitt Street
Pitt Street LS Station

July 29 & 30, 2008

Main replacement project - Eastmont Ave, Dormont, PA
Hays City Gate Station
Whitaker M & R Station
Industrial M & R Station - US Steel Mixing Plant
Michellina St M & R Station
Tepe Regulator Station
Crooked Creek Compressor Station
Crooked Creek Service Center
Shoemaker Compressor Station

January 9 and 10, 2006

Butler General Office Building Butler
Warehouse Complex
Portmann Compressor and Regulator Station
Vardy Compressor Station
Hughes Compressor Station
Hughes Well
Peachtree Lane Regulating Station
Allegheny Garage and Office
Natrona Heights Connecting Site
Armstrong Office and Warehouse

January 27, 2004

Training Center
Region "A" Operating Center
Sheridan Plaza Regulator Station
Youghiogheny Regulator Station
Pruett Regulator Station
Clever Road Regulator Station
Baldwin Road Regulator Station
Moultrie Regulator Station

August 26-27, 2003

Altoona Service Center
Lynndale & 49th Street Regulator Station (LS2765)
Oak Ave. and 60th Street Regulator Station (LS1723)
Shinkles Mill Road Regulator Station (LS1194)
Stevens Border Station (XS217)
Rager Mountain Compressor Station
Laurel Ridge Compressor Station
Johnstown Service Center
Greensburg Service Center
Gibsonia Service Center
Wilkinsburg Service Center – Pitt Street
Allenby Ave and Braddock Ave Regulator Station (LS1475)
Chalfont Border Station

July 2, 1996

Dice Compressor Station
McKeesport Station
Chalfont Regulating Station
Beacon Hill LS Station
Forest Hills Service Center

September 21-23, 1993

Hughes Compressor Station
Freeport Tool House
New Kensington Office
Texas Drive Regulator
Delmont Station
Seanor Station
Seanor Storage Well
Elder Farm
Schmidt Compressor Station
Heckman Station
Walkchalk Warehouse
Fair Station
Petrolia Purchase Point
Vardy Compressor Station
Portmann Compressor Station
Beyer Regulating Station
Kinter Compressor Station
Home Shop
Clark Compressor Station
Front Street Regulating
Station Punxsutawney Shop
Sprinkle Mills Compressor Station
Alabran Shop
Alabran Compressor Station
Anderson Meter Shop
Butler Warehouse and Meter Shop
Butler General Office

October 17-18, 1990

Altoona Division Headquarters
Regulating Station LS-1723 at 60th Street and Oak Avenue
Johnstown Division Headquarters
Regulating Station LS-2568
Rager Mountain Compressor Station
Laurel Ridge Compressor Station
Regulating Station XS-292
Central Division Headquarters
Southern Division Headquarters

Wall Compressor Station
Cooper Central Warehouse
Gibson Compressor Station
Pittsburgh Division Headquarters

October 12-13, 1988

Butler General Office Building
Butler Warehouse Complex
Portmann Compressor Station
Vardy Compressor Station
Anderson Industrial Meter Shop
Hughes Compressor Station
Freeport Shop
New Kensington Office
Walkchalk Garage and Shop
Glycol Plant at Indiana University of Pennsylvania
Measuring and Regulating Station on IUP Campus for
S. W. Jack Cogeneration Plant
Kinter Compressor Station
Metering Station at Kinter
Home Shop
Alabran Compressor Station
Alabran Shop
Sprinkle Compressor Station
Punxsutawney Radio Tower
Punxsutawney Shop
Glen Campbell Compressor Station
Clarksburg Garage and Shop
Schmidt Compressor Station

October 1-2, 1985

Hopewell District Office
Blackhawk Transmission Regulator Station
Western Division Headquarters
Pittsburgh Division Headquarters
Northern Division Headquarters
Leechburg Shop
Roaring Run Compressor Station
Girty Compressor Station
Indiana District Office
Valley Compressor Station
Baum Compressor Station
Truittsburg Compressor Station

Judgment

The survivor curve estimates were based on judgment which considered a number of factors. The primary factors were the statistical analyses of data; current Company policies and outlook as determined during the field trips and other conversations with management; and the survivor curve estimates from previous studies of this company and other gas companies.

For many of the mass plant accounts and subaccounts for which survivor curves were estimated, the statistical analyses resulted in good to excellent indications of the survivor patterns experienced. Generally, the information external to the statistics led to little or no significant departure from the indicated survivor curves for the following accounts:

<u>Account No.</u>	<u>Account Name</u>
325.04	Rights-of-Way
327.00	Field Compressor Station Structures
328.00	Field Measuring and Regulating Station Structures
330.00	Producing Gas Wells - Well Construction
331.00	Producing Gas Wells - Well Equipment
332.00	Field Lines
333.00	Field Compressor Station Equipment
334.00	Field Measuring and Regulating Station Equipment
337.00	Other Equipment
351.00	Structures and Improvements
352.02	Wells - Equipment
353.01	Lines
354.01	Compressor Station Equipment
366.02	Structures and Improvements - Measuring and Regulating
366.03	Structures and Improvements - Other
367.00	Mains
368.00	Compressor Station Equipment
369.00	Measuring and Regulating Station Equipment
371.00	Other Equipment
375.01	Structures and Improvements - Measuring and Regulating - Other - Minor
375.02	Structures and Improvements - Measuring and Regulating - Other - Major
376.00	Mains
378.00	Measuring and Regulating Station Equipment - General
380.00	Services

381.00	Meters
382.00	Meter Installations
385.00	Industrial Measuring and Regulating Station Equipment
387.00	Other Equipment
392.01	Transportation Equipment - Automobiles
392.02	Transportation Equipment - Trucks
392.03	Transportation Equipment - Trailers
396.00	Power Operated Equipment

The combined Account 376.00, Mains, is used to illustrate the manner in which the study was conducted for the groups in the preceding list. Account 376.00 represents 55 percent of the total depreciable plant. Aged plant accounting data have been compiled for the years 1938 through 2022. These data have been coded in the course of the Company's normal record keeping according to account or property group, type of transaction, year in which the transaction took place, and year in which the gas plant was placed in service. The retirements, and other plant transactions, and plant additions were analyzed by the retirement rate method.

The survivor curve estimate for the periods 1938 through 2022 and 1963 through 2022 was selected to analyze the rates of retirements of distribution mains. The current indication is that an Iowa 72-R1.5 survivor curve is being experienced, based on the statistical analysis for recent history, 1963-2022 and the overall period, 1939-2022. Discussions with operating and managing personnel as well as field observations related to reasons for retirement indicated that little change over the last few years or in the next few years are expected. Thus, a slight change to a longer average service life and survivor curve from the last study.

For large structures in Account 375, a life span was estimated for each major structure. Each life span was estimated on the basis of type of construction, use, age, condition, and management's plans within the foreseeable future. An interim survivor curve was estimated for the major structures, based primarily upon the statistical analysis of the interim retirements that have been experienced by the Company's large buildings.

The estimates for land, leaseholds, and rights-of-way represented by Accounts 350.11, 350.21, 352.11, 352.12, 365.02, 374.02, and 389.02 were based on a review of the ages and magnitude of experienced retirements and a consideration of the survivor curves of the physical plant with which the rights are associated. Generally, the rates of retirement have been small during the early portion of the life cycles and are of use only in defining the early ages of the estimated survivor curves.

The maximum lives of the estimated curves generally coincide with the maximum lives of the survivor curves determined for the associated physical plant.

The survivor curve for Account 351 was based on statistical analyses and a knowledge of the type of structures in the account. The structures generally are small to medium size metal buildings of the nature expected to experience average service lives approximating 40 to 60 years. The stub survivor curves for the 1943-2022 experience band for Account 351 is reasonably well fit by an R2 Iowa type curve with a 60-year average service life which provides for significant retirements during ages 35 through 65.

The survivor curve estimate for Account 355, Measuring and Regulating Station Equipment, is based on statistical analyses and the nature of the equipment in the account. The range of service lives used by others for this account is 40 to 55 years. The estimates for the Company's measuring and regulating equipment used in other functions range from 20 to 50 years with low mode survivor curves. The 60-R2.5 is a reasonable interpretation of the available experience, however, longer than the upper end of the range of lives expected for this equipment. The survivor curve estimates for the remaining accounts were based on judgment incorporating the statistical analyses, the nature of the equipment and the typical range of lives used in the industry.

**PART IV. CALCULATION OF ANNUAL AND
ACCRUED DEPRECIATION**

PART IV. CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION

Group Depreciation Procedures

A group procedure for depreciation is appropriate when considering more than a single item of property. Normally, the items within a group do not have identical service lives but have lives that are dispersed over a range of time. There are two primary group procedures, namely, average service life and equal life group.

In the average service life procedure, the rate of annual depreciation is based on the average life or average remaining life of the group, and this rate is applied to the surviving balances of the group's cost. A characteristic of this procedure is that the cost of plant retired prior to average life is not fully recouped at the time of retirement, whereas the cost of plant retired subsequent to average life is more than fully recouped. Over the entire life cycle, the portion of cost not recouped prior to average life is balanced by the cost recouped subsequent to average life.

In the equal life group procedure, the property group is subdivided according to service life. That is, each equal life group includes that portion of the property which experiences the life of that specific group. The relative size of each equal life group is determined from the property's life dispersion curve. This procedure eliminates the need to base depreciation on average lives, inasmuch as each group is equivalent to a unit having a single life. The full costs of short-lived units are accrued during their lives, leaving no deferral of accruals required to be added to the annual costs associated with long-lived units. The calculated depreciation for the property group is the summation of the calculated depreciation based on the service life of each equal life group.

Remaining Life Annual Accruals

For the purpose of calculating remaining life accrual rates as of November 30, 2026, the estimated book depreciation reserve for each plant account is allocated among vintages in proportion to the calculated accrued depreciation for the account. Explanations of remaining life accruals and calculated accrued depreciation for the vintages calculated by the average service life procedure and for the vintages calculated by the equal life group procedure follow. The detailed calculations are set forth in the Results of Study section of the report.

Average Service Life Procedure

In the average service life procedure, the remaining life annual accrual for each vintage is determined by dividing future book accruals (original cost less book reserve) by the average remaining life of the vintage. The average remaining life is a directly weighted average derived from the estimated future survivor curve in accordance with the average service life procedure.

The calculated accrued depreciation for each depreciable property group represents that portion of the depreciable cost of the group which would not be allocated to expense through future whole life depreciation accruals if current forecasts of life characteristics are used as the basis for such accruals. The accrued depreciation calculation consists of applying an appropriate ratio to the surviving original cost of each vintage of each account, based upon the attained age and service life. The straight line accrued depreciation ratios are calculated as follows for the average service life procedure:

$$Ratio = 1 - \frac{Average\ Remaining\ Life\ Expectancy}{Average\ Service\ Life}.$$

Equal Life Group Procedure

In the equal life group procedure, the remaining life annual accrual for each vintage is determined by dividing future book accruals (original cost less book reserve) by the composite remaining life for the surviving original cost of that vintage. The composite remaining life is derived by compositing the individual equal life group remaining lives in accordance with the following equation:

$$\text{Composite Remaining Life} = \frac{\left(\frac{\text{Book Cost}}{\text{Life}} \times \text{Remaining Life} \right)}{\frac{\text{Book Cost}}{\text{Life}}}$$

The book costs and lives of the several equal life groups which are summed in the foregoing equation are defined by the estimated future survivor curve.

Inasmuch as book cost divided by life equals the whole life annual accrual, the foregoing equation reduces to the following form:

$$\text{Composite Remaining Life} = \frac{\sum \text{Whole Life Future Accruals}}{\sum \text{Whole Life Annual Accruals}}$$

or

$$\text{Composite Remaining Life} = \frac{\sum \text{Book Cost} - \text{Calc. Reserve}}{\sum \text{Whole Life Annual Accrual}}.$$

The annual accrual rate for each account is equal to the sum of the remaining life annual accruals for all vintages divided by the account's total original cost. The account's "composite remaining life" is calculated by dividing the sum of the future book accruals for all vintages by the sum of the remaining life annual accruals for all vintages.

The calculated accrued depreciation in the equal life group procedure also represents that portion of depreciable cost which will not be allocated to expense through

future accruals. However, the calculation is based at the equal life group level rather than the vintage group level and does not require the use of averages. The equal life group accrued depreciation ratio is calculated as follows:

$$Ratio = \frac{Remaining\ Life}{Average\ Service\ Life}.$$

Inasmuch as service life minus remaining life equals age, when averages are not employed, the foregoing equation reduces to:

$$Ratio = \frac{Age}{Service\ Life}.$$

The table on the following page illustrates the procedure for calculating straight line equal life group accrued depreciation, using an Iowa 10-L2.5 Survivor curve and a November 30, 2026 calculation date.

In the table, each equal life group is defined by the age interval shown in columns 1 and 2, which identify the ages at which the first and last retirement of each group occur. The group's designated life, shown in column 3, is the midpoint of the interval. In the calculation, the equal life groups of each vintage are arranged such that the midpoint of each one-year age interval coincides with the calculation date, e.g., November 30 in this case. This enables the calculation of annual accruals which are centered on, or as of, the same date as the calculation of accrued depreciation.

The retirement during each age interval, shown in column 4, is the size of each equal life group. It is derived from the Iowa 10-L2.5 survivor curve and is the difference between the percents surviving (not shown) at the beginning and end of the age interval.

DETAILED COMPUTATION OF ANNUAL AND ACCRUED FACTORS USING THE EQUAL LIFE GROUP PROCEDURE

INPUT PARAMETERS:

CALCULATION DATE.. 11-30-2026

SURVIVOR CURVE.... 10-L2.5

AGE INTERVAL		RETIREMENT'S		GROUP	YEAR	SUMMATION	AVERAGE	ANNUAL	ACCRUED
BEG	END	LIFE	DURING	ANNUAL		OF ANNUAL	PERCENT		
(1)	(2)	(3)	INTERVAL	ACCRUAL	INST	ACCRUALS	SURVIVING	FACTOR	FACTOR
			(4)	(5)=(4) / (3)	(6)	(7)	(8)	(9)	(10)
0.000	0.917	0.458	0.04332	0.04332000000	2026	11.47207681509	95.819310	0.1197	0.0548
0.917	1.917	1.417	0.34028	0.24014114326	2025	11.80973821239	99.786543	0.1184	0.1678
1.917	2.917	2.417	0.96811	0.40054199421	2024	11.48939664365	99.132350	0.1159	0.2801
2.917	3.917	3.417	1.89133	0.55350599941	2023	11.01237264684	97.702629	0.1127	0.3851
3.917	4.917	4.417	3.42709	0.77588634820	2022	10.34767647304	95.043414	0.1089	0.4810
4.917	5.917	5.417	5.73941	1.05951818350	2021	9.42997420719	90.460165	0.1042	0.5645
5.917	6.917	6.417	8.51607	1.32711079944	2020	8.23665971572	83.332426	0.0988	0.6340
6.917	7.917	7.417	10.92457	1.47290953216	2019	6.83664954992	73.612101	0.0929	0.6890
7.917	8.917	8.417	11.94203	1.41879885945	2018	5.39079535411	62.178802	0.0867	0.7298
8.917	9.917	9.417	11.29162	1.19906764362	2017	4.08186210258	50.561978	0.0807	0.7600
9.917	10.917	10.417	9.62248	0.92372852069	2016	3.02046402042	40.104930	0.0753	0.7844
10.917	11.917	11.417	7.80283	0.68343960760	2015	2.21687995628	31.392278	0.0706	0.8060
11.917	12.917	12.417	6.30573	0.50783039381	2014	1.62124495557	24.337999	0.0666	0.8270
12.917	13.917	13.417	5.16854	0.38522322427	2013	1.17471814653	18.600861	0.0632	0.8480
13.917	14.917	14.417	4.25184	0.29491849899	2012	0.83464728490	13.890672	0.0601	0.8665
14.917	15.917	15.417	3.43970	0.22311085166	2011	0.57563260958	10.044901	0.0573	0.8834
15.917	16.917	16.417	2.69005	0.16385758665	2010	0.38214839042	6.980024	0.0547	0.8980
16.917	17.917	17.417	2.00984	0.11539530344	2009	0.24252194538	4.630082	0.0524	0.9127
17.917	18.917	18.417	1.42179	0.07719986969	2008	0.14622435881	2.914269	0.0502	0.9245
18.917	19.917	19.417	0.94472	0.04865427203	2007	0.08329728795	1.731010	0.0481	0.9340
19.917	20.917	20.417	0.58555	0.02867953176	2006	0.04463038606	0.965871	0.0462	0.9433
20.917	21.917	21.417	0.33752	0.01575944343	2005	0.02241089846	0.504336	0.0444	0.9509
21.917	22.917	22.417	0.18193	0.00811571575	2004	0.01047331887	0.244616	0.0428	0.9594
22.917	23.917	23.417	0.09218	0.00393645642	2003	0.00444723279	0.107563	0.0413	0.9671
23.917	24.917	24.417	0.04192	0.00171683663	2002	0.00162058626	0.040511	0.0400	0.9767
24.917	25.917	25.417	0.01528	0.00060117244	2001	0.00046158173	0.011909	0.0388	0.9862
25.917	26.917	26.417	0.00381	0.00014422531	2000	0.00008888285	0.002363	0.0376	0.9933
26.917	27.917	27.417	0.00045	0.00001641317	1999	0.00000856361	0.000235	0.0364	0.9980
27.917	28.100	28.009	0.00001	0.00000035703	1998	0.0000003285	0.000001	0.0329	1.0000

TOTAL

100.00000

Each equal life group's whole life annual accrual, shown in column 5, equals the group's size (column 4) divided by its life (column 3), except that for the first age interval, the annual accrual is set equal to the group's size.

Columns 6 through 10 show the derivation of the whole life annual factor and accrued factor for each vintage based on the data developed in the first five columns. The year installed is shown in column 6. For all vintages other than the first year (2026), the summation of annual accruals for each year installed, shown in column 7, is calculated by adding one-half of the group annual accrual (column 5) for that vintage's current age interval plus the group annual accruals for all succeeding age intervals. For example, the

figure 11.80973821239 for 2025 equals one-half of 0.24014114326 plus all of the succeeding figures in column 5. Only two-thirds of the annual accrual for the vintage's current age interval group is included in the summation because the equal life group for that interval expires at the midpoint of the current year.

The summation of annual accruals (column 7) for installations during 2026 is calculated on the basis of an in-service date at the midpoint of twelve months, i.e., six months prior to November 30. Inasmuch as the overall calculation is centered on November 30, 2026, the accrual for 2026 installations (during the twelve months) represents only one-half of one year, five-twelfth of the year prior to November 30 plus one-twelfths year following November 30. For this reason, the first figure in column 7, for vintage 2026, equals the group annual accrual for 2026 plus one-half of the group annual accruals for each of the subsequent years.

The average percent surviving, derived from the Iowa 10-L2.5 survivor curve, is shown in column 8 for each age interval. The annual factor, shown in column 9, is the result of dividing the summation of annual accruals (column 7) by the average percent surviving (column 8).

The accrued depreciation factor, shown in column 10, equals the annual factor multiplied by the age of the group as of November 30, 2026.

CALCULATION OF ANNUAL AND ACCRUED AMORTIZATION

Amortization, as defined in the Uniform System of Accounts, is the gradual extinguishment of an amount in an account by distributing such amount over a fixed period, over the life of the asset or liability to which it applies, or over the period during

which it is anticipated the benefit will be realized. Normally, the distribution of the amount is in equal amounts to each year of the amortization period.

The calculation of annual and accrued amortization requires the selection of an amortization period. The amortization periods used in this report were based on judgment which incorporated a consideration of the period during which the assets will render most of their service, the amortization periods and service lives used by other utilities, and the service life estimates previously used for the asset under depreciation accounting.

Amortization accounting is appropriate for certain General Plant accounts that represent numerous units of property, but a very small portion of depreciable gas plant in service. The accounts and their amortization periods are as follows:

<u>Account</u>	<u>Amortization Period, Years</u>
391.00, Office Furniture and Equipment	
Furniture	20
Computers	5
Equipment	15
394.00, Tools, Shop and Garage Equipment	25
393.00, Stores Equipment	25
394.01, Dual Fuel Stations	15
397.00, Communication Equipment	
Telephone	15
Microwave	18
Structures	25
Radio	15
398.00, Miscellaneous Equipment	15

For the purpose of calculating annual amortization amounts as of November 30, 2026, the book depreciation reserve for each plant account or subaccount is assigned or allocated to vintages. The book reserve assigned to vintages with an age greater than

the amortization period is equal to the vintage's original cost. The remaining book reserve is allocated among vintages with an age less than the amortization period in proportion to the calculated accrued amortization. The calculated accrued amortization is equal to the original cost multiplied by the ratio of the vintage's age to its amortization period. The annual amortization amount is determined by dividing the future amortizations (original cost less allocated book reserve) by the remaining period of amortization for the vintage.

AMORTIZATION OF NET SALVAGE

Experienced salvage is incorporated in the results of the study, as it was reported on the Company's books and records for the period January 1, 2022 through November 30, 2025. The data for the last month of 2025 and full year of 2026 are based on estimated experience. Results of the calculations are shown in Table 4.

Net salvage experienced during the five-year period is presented in this manner to determine the amount of negative net salvage to be amortized for book purposes. In developing the amount to be amortized, the data for the accounts which experienced positive net salvage have been netted with those for accounts which experienced negative net salvage.

In order to be consistent with this manner of recognizing net salvage, no adjustments for net salvage were made to the annual accruals and accrued depreciation calculated for each individual account. There were no exclusions from the 2022 through 2026 net salvage accrual.

PART V. RESULTS OF STUDY

PART V. RESULTS OF STUDY

DESCRIPTION OF SUMMARY TABULATIONS

Tables 1 through 4 presented on pages V-4 through V-11 summarize the results of the depreciation study as of November 30, 2026. Table 1 sets forth, by depreciable group, the estimated survivor curve, original cost, book depreciation reserve as of November 30, 2026, future book accruals, calculated annual accrual amount and rate, and composite remaining life for plant in service. Table 2 presents the bringforward of the book reserve to November 30, 2026. Table 3 sets forth the calculation of the depreciation accruals for the twelve months ended November 30, 2026. Table 4 presents the annual amortization of experienced and estimated net salvage based on the period 2022 through 2026.

DESCRIPTION OF DETAILED TABULATIONS

Supporting statistical data for the estimates of average service lives and survivor curves, the annual depreciation calculations, and gross salvage and cost of removal for the years 2022-2026 are presented in three sections.

The section beginning on page VI-2 sets forth, for each depreciable group analyzed by the retirement rate method, a chart depicting the original and estimated survivor curves followed by a tabular presentation of the original life table(s) plotted on the chart. A cumulative summary, by year installed, for gas plant and the supporting data for the original cost depreciation calculations are presented in the section beginning on page VII-2. The tabulations of experienced and estimated net salvage by year by account for the five-year period, 2022-2026, are presented in the section beginning on page VIII-2.

In the first section, the survivor curves estimated for the depreciable groups are shown as dark smooth curves on the charts. Each smooth survivor curve is denoted by a numeral followed by the type curve designation. The numeral used is the average life derived from the entire curve from 100 percent to zero percent surviving. In cases where only a segment of the estimated curve is used in the depreciation calculation, the numeral used for identification purposes is not a designation of the average life of the group. The titles of the charts indicate the group, the symbol used to plot the points of the original life table, and the experience and placement bands of the life tables which were plotted. The experience band indicates the range of years for which the retirements were used to develop the stub survivor curve. The placements indicate, for the related experience band, the range of years of installations which appear in the experience.

The tables of the calculated annual depreciation related to original cost are presented in the second section and indicate the estimated average survivor curves used in the calculations. The tables set forth, for each installation year, the original cost, calculated accrued depreciation, allocated book reserve, future book accruals, remaining life expectancy and the calculated annual accrual.

Detailed tabulations setting forth the cost of removal and salvage amounts, by plant account for each year, are presented beginning on page VIII-2. The total salvage and removal costs, by year, were used to calculate the five-year net salvage amortization presented in Table 4 on page V-11.

PEOPLES NATURAL GAS COMPANY LLC

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVE, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF NOVEMBER 30, 2026

	DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF NOVEMBER 30, 2026 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED		COMPOSITE REMAINING LIFE (8)=(5)/(6)
						ANNUAL ACCRUAL AMOUNT (6)	RATE (7)=(6)/(3)	
DEPRECIABLE GAS PLANT								
INTANGIBLE PLANT								
303.00	MISCELLANEOUS INTANGIBLE PLANT							
	CIAC	40-SQ	18,961,179.44	1,842,722	17,118,457	492,371	2.60	34.8
	OTHER	5-SQ	69,644,068.53	43,095,107	26,548,962	13,519,487	19.41	2.0
	MAJOR	15-SQ	11,876,465.20	1,046,770	10,829,695	1,296,334	10.92	8.4
	SAP	10-SQ	18,344,947.01	17,462,987	881,960	128,624	0.70	6.9
	TOTAL MISCELLANEOUS INTANGIBLE PLANT		118,826,660.18	63,447,586	55,379,074	15,436,816	12.99	
PRODUCTION PLANT								
325.01	PRODUCING LANDS	75-R4	139,440.21	83,442	55,998	1,067	0.77	52.5
325.02	PRODUCING LEASEHOLDS	45-L0	14,480.68	10,206	4,275	184	1.27	23.2
325.03	GAS RIGHTS	65-R2.5	20,984.28	13,606	7,378	224	1.07	32.9
325.04	RIGHTS OF WAY	75-R2.5	2,132,063.08	1,042,773	1,089,290	23,367	1.10	46.6
327.00	FIELD COMPRESSOR STATION EQUIPMENT	50-S0.5	12,308,841.37	5,510,164	6,798,677	243,675	1.98	27.9
328.00	FIELD MEASURING AND REGULATING STATION STRUCTURES	33-S0	100,014.85	52,765	47,250	2,804	2.80	16.9
329.00	OTHER STRUCTURES	60-R2.5	1,926,213.73	1,047,385	878,829	23,676	1.23	37.1
330.00	PRODUCING GAS WELLS - WELL CONSTRUCTION	25-L1	9,214.49	10,461	(1,247)	0	-	-
331.00	PRODUCING GAS WELLS - WELL EQUIPMENT	26-L1	2,960.52	2,781	180	102	3.45	1.8
332.00	FIELD LINES	65-R1.5	88,238,773.81	33,706,307	54,532,467	1,441,927	1.63	37.8
333.00	FIELD COMPRESSOR STATION EQUIPMENT	35-S0.5	48,593,534.02	18,863,126	29,730,408	1,594,396	3.28	18.6
334.00	FIELD MEASURING AND REGULATING STATION EQUIPMENT	20-L0	3,636,010.12	3,070,895	565,115	57,132	1.57	9.9
337.00	OTHER EQUIPMENT	23-L1	10,824.20	(11,395)	22,219	2,363	21.83	9.4
	TOTAL PRODUCTION PLANT		157,133,355.36	63,402,516	93,730,839	3,390,917	2.16	
UNDERGROUND STORAGE PLANT								
350.11	LAND - GAS	55-L4	16,823.84	11,485	5,339	438	2.60	12.2
350.21	RIGHTS OF WAY	70-R3	153,027.64	41,226	111,802	2,102	1.37	53.2
351.00	STRUCTURES AND IMPROVEMENTS	60-R2	2,400,554.19	967,443	1,433,111	44,077	1.84	32.5
352.01	WELLS - CONSTRUCTION	60-R1.5	3,405,261.40	(626,826)	4,032,087	137,606	4.04	29.3
352.02	WELLS - EQUIPMENT	55-R1	1,810,956.79	96,922	1,714,035	64,451	3.56	26.6
352.11	LEASEHOLDS	60-R3	161,936.70	161,937	0	0	-	-
352.12	STORAGE RIGHTS	65-R5	413,405.93	239,520	173,886	5,073	1.23	34.3
352.21	RESERVOIRS	40-SQ	433,138.50	205,980	227,158	9,639	2.23	23.6
352.31	NON-RECOVERABLE NATURAL GAS	37-SQ	205,250.77	205,251	0	0	-	-
353.00	LINES	50-R2	3,688,378.84	2,247,482	1,440,897	50,834	1.38	28.3
354.00	COMPRESSOR STATION EQUIPMENT	47-R1.5	16,773,951.91	4,158,714	12,615,238	493,478	2.94	25.6
355.00	MEASURING AND REGULATING STATION EQUIPMENT	60-R2.5	2,694,747.02	617,119	2,077,628	48,275	1.79	43.0
357.00	OTHER EQUIPMENT	30-R2.5	30,183.87	30,184	0	0	-	-
	TOTAL UNDERGROUND STORAGE PLANT		32,187,617.40	8,356,437	23,831,181	855,973	2.66	

PEOPLES NATURAL GAS COMPANY LLC

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVE, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF NOVEMBER 30, 2026

	DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF NOVEMBER 30, 2026 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED ANNUAL ACCRUAL RATE (7)=(6)/(3)		COMPOSITE REMAINING LIFE (8)=(5)/(6)
						AMOUNT (6)		
TRANSMISSION PLANT								
365.02	RIGHTS OF WAY	80-R4	7,560,459.56	2,977,552	4,582,908	79,814	1.06	57.4
366.01	STRUCTURES AND IMPROVEMENTS - COMPRESSOR STATION	60-R3	2,163,704.78	1,222,833	940,872	26,787	1.24	35.1
366.02	STRUCTURES AND IMPROVEMENTS - MEASURING AND REGULATING	55-R2.5	1,729,039.50	1,118,049	610,990	17,393	1.01	35.1
366.03	STRUCTURES AND IMPROVEMENTS - OTHER	45-R2	94,788.96	80,953	13,836	695	0.73	19.9
367.00	MAINS	80-R2.5	329,280,077.50	103,771,080	225,508,998	4,197,854	1.27	53.7
368.00	COMPRESSOR STATION EQUIPMENT	42-S0.5	22,837,776.03	9,391,389	13,446,387	557,477	2.44	24.1
369.00	MEASURING AND REGULATING STATION EQUIPMENT	48-R1.5	48,576,959.65	18,929,378	29,647,582	1,021,688	2.10	29.0
371.00	OTHER EQUIPMENT	35-R1	2,650,785.29	1,341,951	1,308,834	63,489	2.40	20.6
	TOTAL TRANSMISSION PLANT		414,893,591.27	138,833,185	276,060,407	5,965,197	1.44	
DISTRIBUTION PLANT								
374.02	RIGHTS OF WAY	75-R4	12,669,747.70	3,469,425	9,200,323	168,257	1.33	54.7
375.00	STRUCTURES AND IMPROVEMENTS							
	MEASURING AND REGULATING	65-R2	5,225,191.37	3,879,932	1,345,259	30,619	0.59	43.9
	OTHER							
	MAJOR STRUCTURES	85-R1 *	24,813,854.42	17,346,074	7,467,780	1,317,780	5.31	5.7
	MINOR STRUCTURES	65-R2	1,104,892.66	642,160	462,733	12,130	1.10	38.1
	TOTAL STRUCTURES AND IMPROVEMENTS		31,143,938.45	21,868,166	9,275,772	1,360,529	4.37	
376.00	MAINS							
	LOW PRESSURE	72-R1.5	2,076,101,781.04	352,353,816	1,723,747,965	38,885,185	1.87	44.3
	REGULAR PRESSURE	72-R1.5	1,813,370,922.29	313,151,924	1,500,218,998	34,544,225	1.90	43.4
	TOTAL MAINS		3,889,472,703.33	665,505,740	3,223,966,963	73,429,410	1.89	
378.00	MEASURING AND REGULATING STATION EQUIPMENT - GENERAL	55-R1.5	159,321,070.99	39,368,042	119,953,029	3,634,644	2.28	33.0
380.00	SERVICES	55-R2	1,015,208,273.79	334,628,720	680,579,554	20,030,699	1.97	34.0
381.00	METERS	32-S0.5	143,016,571.31	31,762,372	111,254,199	6,098,280	4.26	18.2
381.20	METERS - INTELIS	20-S2	45,917,535.03	1,621,900	44,295,635	2,662,740	5.80	16.6
382.00	METER INSTALLATIONS	55-R2	67,768,708.33	20,524,431	47,244,277	1,624,149	2.40	29.1
385.00	INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT	50-R0.5	13,415,312.12	6,488,420	6,926,892	245,430	1.83	28.2
386.00	OTHER PROPERTY ON CUSTOMER PREMISES	20-S4	14,644,532.28	14,644,532	0	0	-	-
387.00	OTHER EQUIPMENT	26-R2.5	16,485,526.11	5,019,221	11,466,305	710,644	4.31	16.1
	TOTAL DISTRIBUTION PLANT		5,409,063,919.44	1,144,900,969	4,264,162,949	109,964,782	2.03	
GENERAL PLANT								
389.02	LAND RIGHTS AND RIGHTS OF WAY	60-R3	52,996.00	39,924	13,072	499	0.94	26.2
390.00	STRUCTURES AND IMPROVEMENTS							
	OWNED	55-R1.5	59,974,285.46	6,997,517	52,976,768	1,568,480	2.62	33.8
	LEASED - NORTH SHORE	75-R0.5 *	8,148,983.51	6,952,636	1,196,348	555,521	6.82	2.2
	TOTAL STRUCTURES AND IMPROVEMENTS		68,123,268.97	13,950,153	54,173,116	2,124,001	3.12	

PEOPLES NATURAL GAS COMPANY LLC

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVE, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF NOVEMBER 30, 2026

	DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF NOVEMBER 30, 2026 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED		COMPOSITE REMAINING LIFE (8)=(5)/(6)
						ANNUAL ACCRUAL AMOUNT (6)	RATE (7)=(6)/(3)	
391.01	OFFICE FURNITURE AND EQUIPMENT - FURNITURE	20-SQ	2,757,606.49	2,102,052	655,554	77,472	2.81	8.5
391.02	OFFICE FURNITURE AND EQUIPMENT - COMPUTERS	5-SQ	5,808,661.56	6,042,176	(233,514)	0	-	-
391.03	OFFICE FURNITURE AND EQUIPMENT - EQUIPMENT	15-SQ	189,910.86	40,232	149,679	19,533	10.29	7.7
392.00	TRANSPORTATION EQUIPMENT							
	TRUCKS	10-L2.5	84,693,239.36	29,506,879	55,186,360	11,166,866	13.19	4.9
	TRAILERS	15-L2	6,496,879.25	(715,234)	7,212,113	779,916	12.00	9.2
	TOTAL TRANSPORTATION EQUIPMENT		91,190,118.61	28,791,645	62,398,473	11,946,782	13.10	
393.00	STORES EQUIPMENT	25-SQ	456.77	0	457	53	11.60	8.6
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	25-SQ	9,012,562.37	4,622,089	4,390,473	305,027	3.38	14.4
394.01	DUAL FUEL STATIONS	15-SQ	398,116.81	328,512	69,605	10,578	2.66	6.6
396.00	POWER OPERATED EQUIPMENT	15-L2	17,856,534.17	8,852,449	9,004,085	1,213,796	6.80	7.4
397.02	COMMUNICATION EQUIPMENT - TELEPHONE	15-SQ	18,273,988.78	8,069,845	10,204,144	1,532,210	8.38	6.7
397.03	COMMUNICATION EQUIPMENT - MICROWAVE	18-SQ	16,950,005.16	9,820,616	7,129,389	828,823	4.89	8.6
397.10	COMMUNICATION EQUIPMENT - STRUCTURES	25-SQ	28,654.98	1,727	26,928	3,579	12.49	7.5
397.20	COMMUNICATION EQUIPMENT - RADIO	15-SQ	653,457.96	1,092	652,366	206,798	31.65	3.2
398.00	MISCELLANEOUS EQUIPMENT	15-SQ	54,885.82	47,685	7,201	1,058	1.93	6.8
	TOTAL GENERAL PLANT		231,351,225.31	82,710,197	148,641,028	18,270,209	7.90	
	AMORTIZATION OF NET SALVAGE					7,157,306		
	TOTAL DEPRECIABLE GAS PLANT		6,363,456,368.96	1,501,650,890	4,861,805,478	161,041,200	2.53	
	NONDEPRECIABLE GAS PLANT							
301.00	ORGANIZATION		177,885.87					
302.00	FRANCHISES AND CONSENTS		71,371.20					
325.51	OTHER LAND AND LAND RIGHTS		47,094.57	2,031				
350.10	LAND AND LAND RIGHTS - LAND		46,820.26	1,382				
365.10	LAND AND LAND RIGHTS - LAND		381,342.73					
374.01	LAND AND LAND RIGHTS - LAND		1,061,018.46	30,228				
389.01	LAND AND LAND RIGHTS - LAND		4,665,894.27					
	TOTAL NONDEPRECIABLE GAS PLANT		6,451,427.36	33,641				
	TOTAL GAS PLANT		6,369,907,796.32	1,501,684,531				

* LIFESPAN PROCEDURE IS USED. SURVIVOR CURVE SHOWN IS INTERIM CURVE.

NOTES:

1) NEW ASSETS IN ACCOUNT 392.00 TRANSPORTATION EQUIPMENT - AUTOMOBILES, WILL USE A 22.12% RATE BASED ON A 6-L2.5 CURVE.

PEOPLES NATURAL GAS COMPANY LLC

TABLE 2. BRINGFORWARD TO NOVEMBER 30, 2026 OF THE BOOK RESERVE AS OF NOVEMBER 30, 2025

ACCOUNT (1)	BOOK RESERVE AS OF NOVEMBER 30, 2025 (2)	DEPRECIATION + ACCRUALS (3)	AMORTIZATION OF NET SALVAGE (4)	PROJECTED RETIREMENTS (5)	PROJECTED GROSS SALVAGE (6)	PROJECTED COST OF REMOVAL (7)	ACQUISITIONS AND ADJUSTMENTS (8)	PROJECTED BOOK RESERVE AS OF NOVEMBER 30, 2026 (9)
DEPRECIABLE GAS PLANT								
303.00	2,147,531	326,398		631,207				1,842,722
303.01	35,489,755	14,137,253		6,531,901				43,095,107
303.02	935,970	1,224,691		1,113,891				1,046,770
303.03	19,062,562	120,993		1,720,568				17,462,987
325.01	82,368	1,074						83,442
325.02	10,016	190						10,206
325.03	13,379	227						13,606
325.04	1,020,182	22,591						1,042,773
325.51	2,031							2,031
327.00	5,261,525	248,639						5,510,164
328.00	51,967	798						52,765
329.00	1,023,500	23,885						1,047,385
330.00	10,461							10,461
331.00	2,531	250						2,781
332.00	32,189,505	1,348,232	574,022	272,107	2,709	136,054		33,706,307
333.00	19,494,140	1,538,632	146,204	1,543,899		771,950		18,863,126
334.00	2,981,049	52,381	38,825	907		453		3,070,895
337.00	42,544	1,429		55,368				(11,395)
350.10	1,382							1,382
350.11	11,022	463						11,485
350.21	39,258	1,968						41,226
351.00	794,763	50,412						967,443
352.01	(1,192,199)	183,257	122,268					(626,826)
352.02	97,073	45,833	511,816	86,466		43,233		96,922
352.11	161,937			45,984				161,937
352.12	234,435	5,085						239,520
352.21	196,321	9,659						205,980
352.31	205,251							205,251
353.00	2,195,845	51,637						2,247,482
354.00	5,046,330	428,674		1,314,290				4,158,714
355.00	592,651	32,359		7,891				617,119
357.00	30,184							30,184
365.02	2,901,166	76,386						2,977,552
366.01	1,196,003	26,830						1,222,833
366.02	1,100,364	17,636	49					1,118,049
366.03	80,242	711						80,953
367.00	99,703,602	4,153,152	61,263	122,889	551	24,600		103,771,080
368.00	9,247,729	480,624	680	337,644				9,391,389
369.00	17,589,813	1,004,209	412,754	51,598		25,799		18,929,378
371.00	1,275,946	66,005						1,341,951
374.01	30,228							30,228
374.02	3,308,177	161,248						3,469,425
375.00	4,066,011	934	134	187,147				3,879,932
375.00	16,030,940	1,315,134						17,346,074
375.00	629,896	12,264						642,160
376.00	317,772,699	36,495,606		4,408,085	11,564	2,204,043	225,186	352,353,816
376.00	283,878,765	32,566,460	4,686,075	3,518,487				313,151,924

PEOPLES NATURAL GAS COMPANY LLC

TABLE 2. BRINGFORWARD TO NOVEMBER 30, 2026 OF THE BOOK RESERVE AS OF NOVEMBER 30, 2025

ACCOUNT (1)	BOOK RESERVE AS OF NOVEMBER 30, 2025 (2)	DEPRECIATION ACCRUALS + (3)	AMORTIZATION OF NET SALVAGE + (4)	PROJECTED RETIREMENTS - (5)	PROJECTED GROSS SALVAGE + (6)	PROJECTED COST OF REMOVAL - (7)	ACQUISITIONS AND ADJUSTMENTS + (8)	PROJECTED BOOK RESERVE AS OF NOVEMBER 30, 2026 (9)
378.00	37,347,800	3,043,277	50,472	933,485		140,023		39,368,042
380.00	320,112,789	18,711,394	3,188,592	4,922,703		2,461,351		334,628,720
381.00	49,817,170	5,474,846		23,529,644				31,762,372
381.20	145,635	1,476,265						1,621,900
382.00	29,132,944	1,418,770	32,949	9,977,420		82,812		20,524,431
385.00	6,232,637	255,948		165				6,488,420
386.00	14,644,532							14,644,532
387.00	4,288,912	730,309						5,019,221
389.02	39,415	509						39,924
390.00	5,886,063	1,511,338		399,884				6,997,517
390.00	6,470,072	526,884		44,320				6,952,636
391.01	2,062,545	76,811		37,303				2,102,052
391.02	9,084,860			3,042,683				6,042,176
391.03	21,046	19,186						40,232
392.02	26,710,565	10,753,166	(2,317,433)	7,071,333	1,414,267	(17,648)		29,506,879
392.03	116,746	636,727		1,468,707				(715,234)
393.00	(1,422)						1,422	-
394.00	4,902,349	224,543		503,381			(1,422)	4,622,089
394.01	317,922	10,590						328,512
396.00	8,517,071	1,180,871	(4,078)	841,416				8,852,449
397.02	11,040,592	1,223,836	(580)	4,199,990	5,987			8,069,845
397.03	8,991,765	828,851						9,820,616
397.10	(1,835)	3,562						1,727
397.20	1,250,166	88,635		1,337,709				1,092
398.00	46,626	1,059						47,685
TOTAL DEPRECIABLE GAS PLANT	1,434,223,813	144,429,586	7,504,010	80,260,472	1,435,077	5,872,670	225,186	1,501,684,531

PEOPLES NATURAL GAS COMPANY LLC

TABLE 3. CALCULATION OF DEPRECIATION ACCRUALS FOR THE TWELVE MONTHS ENDED NOVEMBER 30, 2026

DEPRECIABLE GROUP		ORIGINAL COST AS OF NOVEMBER 30, 2025	ORIGINAL COST AS OF NOVEMBER 30, 2026	COMPOSITE ACCRUAL RATE	ANNUAL ACCRUAL AMOUNT
(1)		(2)	(3)	(4)	(5)
DEPRECIABLE GAS PLANT					
INTANGIBLE PLANT					
303.00	MISCELLANEOUS INTANGIBLE PLANT				
	CIAC	7,361,230.65	18,961,179.44	2.48	326,398
	OTHER	76,175,969.94	69,644,068.53	19.39	14,137,253
	MAJOR	12,990,356.19	11,876,465.20	9.85	1,224,691
	SAP	20,065,515.44	18,344,947.01	0.63	120,993
	TOTAL MISCELLANEOUS INTANGIBLE PLANT	116,593,072.22	118,826,660.18		15,809,335
PRODUCTION PLANT					
325.01	PRODUCING LANDS	139,440.21	139,440.21	0.77	1,074
325.02	PRODUCING LEASEHOLDS	14,480.68	14,480.68	1.31	190
325.03	GAS RIGHTS	20,984.28	20,984.28	1.08	227
325.04	RIGHTS OF WAY	2,051,366.10	2,132,063.08	1.08	22,591
327.00	FIELD COMPRESSOR STATION EQUIPMENT	12,308,841.37	12,308,841.37	2.02	248,639
328.00	FIELD MEASURING AND REGULATING STATION STRUCTURES	62,777.57	100,014.85	0.98	798
329.00	OTHER STRUCTURES	1,926,213.73	1,926,213.73	1.24	23,885
330.00	PRODUCING GAS WELLS - WELL CONSTRUCTION	9,214.49	9,214.49	-	0
331.00	PRODUCING GAS WELLS - WELL EQUIPMENT	2,960.52	2,960.52	8.44	250
332.00	FIELD LINES	81,350,164.33	88,238,773.81	1.59	1,348,232
333.00	FIELD COMPRESSOR STATION EQUIPMENT	48,788,216.36	48,593,534.02	3.16	1,538,632
334.00	FIELD MEASURING AND REGULATING STATION EQUIPMENT	3,490,666.48	3,636,010.12	1.47	52,381
337.00	OTHER EQUIPMENT	66,192.40	10,824.20	3.71	1,429
	TOTAL PRODUCTION PLANT	150,231,518.52	157,133,355.36		3,238,328
UNDERGROUND STORAGE PLANT					
350.11	LAND - GAS	16,823.84	16,823.84	2.75	463
350.21	RIGHTS OF WAY	138,528.02	153,027.64	1.35	1,968
351.00	STRUCTURES AND IMPROVEMENTS	2,400,554.19	2,400,554.19	2.10	50,412
352.01	WELLS - CONSTRUCTION	1,330,068.80	3,405,261.40	7.74	183,257
352.02	WELLS - EQUIPMENT	707,345.74	1,810,956.79	3.64	45,833
352.11	LEASEHOLDS	161,936.70	161,936.70	-	0
352.12	STORAGE RIGHTS	413,405.93	413,405.93	1.23	5,085
352.21	RESERVOIRS	433,138.50	433,138.50	2.23	9,659
352.31	NON-RECOVERABLE NATURAL GAS	205,250.77	205,250.77	-	0
353.00	LINES	3,688,378.84	3,688,378.84	1.40	51,637
354.00	COMPRESSOR STATION EQUIPMENT	15,921,351.22	16,773,951.91	2.61	426,674
355.00	MEASURING AND REGULATING STATION EQUIPMENT	1,591,237.23	2,694,747.02	1.51	32,359
357.00	OTHER EQUIPMENT	30,183.87	30,183.87	-	0
	TOTAL UNDERGROUND STORAGE PLANT	27,038,203.65	32,187,617.40		807,347
TRANSMISSION PLANT					
365.02	RIGHTS OF WAY	7,129,174.85	7,560,459.56	1.04	76,386
366.01	STRUCTURES AND IMPROVEMENTS - COMPRESSOR STATION	2,163,704.78	2,163,704.78	1.24	26,830
366.02	STRUCTURES AND IMPROVEMENTS - MEASURING AND REGULATING	1,729,039.50	1,729,039.50	1.02	17,636
366.03	STRUCTURES AND IMPROVEMENTS - OTHER	94,788.96	94,788.96	0.75	711
367.00	MAINS	319,649,866.97	329,280,077.50	1.28	4,153,152
368.00	COMPRESSOR STATION EQUIPMENT	19,695,331.10	22,837,776.03	2.26	480,624
369.00	MEASURING AND REGULATING STATION EQUIPMENT	46,159,736.03	48,576,959.65	2.12	1,004,209
371.00	OTHER EQUIPMENT	2,650,785.29	2,650,785.29	2.49	66,005
	TOTAL TRANSMISSION PLANT	399,272,427.48	414,893,591.27		5,825,553

PEOPLES NATURAL GAS COMPANY LLC

TABLE 3. CALCULATION OF DEPRECIATION ACCRUALS FOR THE TWELVE MONTHS ENDED NOVEMBER 30, 2026

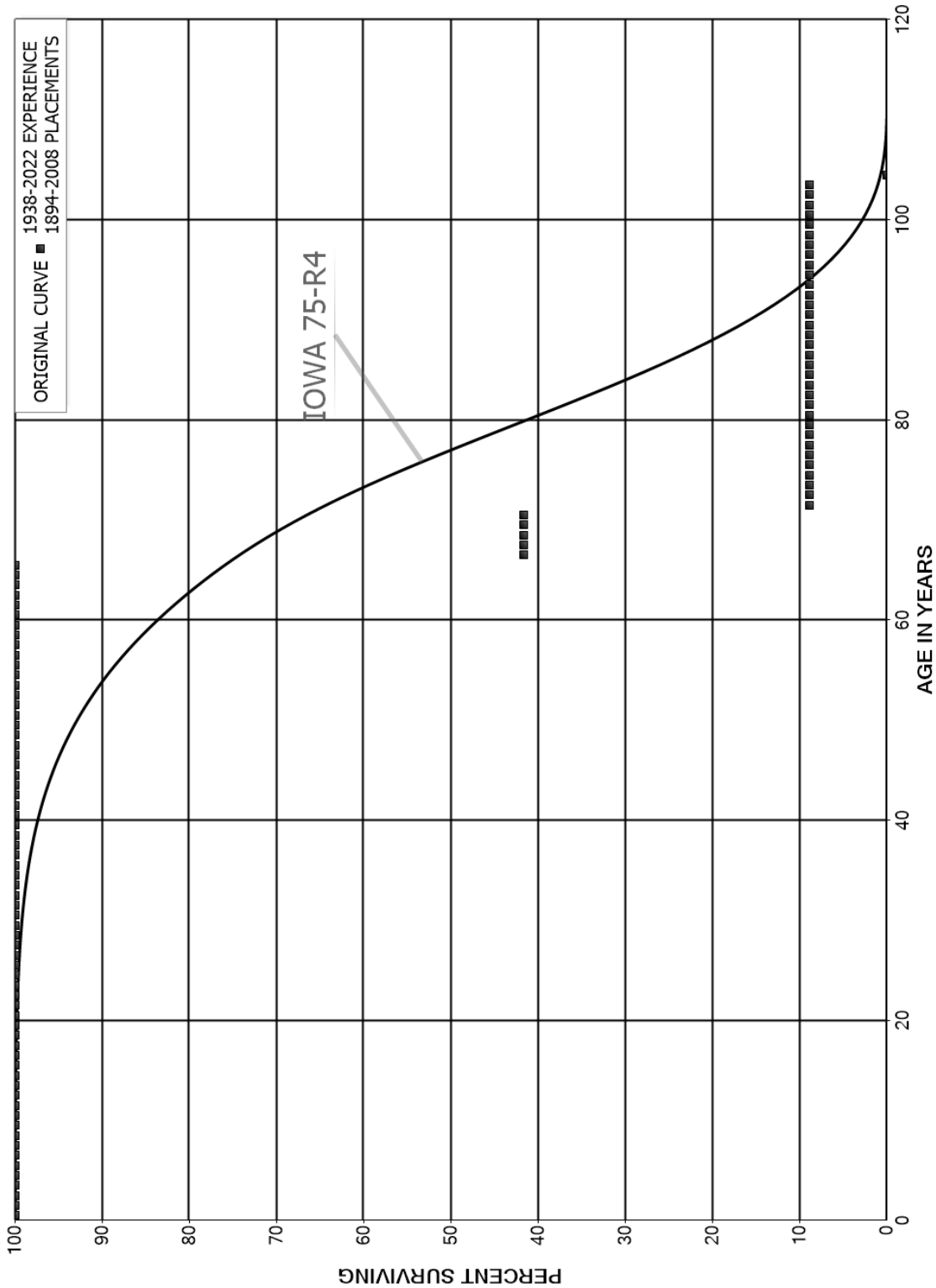
DEPRECIABLE GROUP		ORIGINAL COST AS OF NOVEMBER 30, 2025	ORIGINAL COST AS OF NOVEMBER 30, 2026	COMPOSITE ACCRUAL RATE	ANNUAL ACCRUAL AMOUNT
(1)		(2)	(3)	(4)	(5)
DISTRIBUTION PLANT					
374.02	RIGHTS OF WAY	11,761,725.08	12,669,747.70	1.32	161,248
375.00	STRUCTURES AND IMPROVEMENTS				
	MEASURING AND REGULATING	4,109,993.12	5,225,191.37	0.02	934
	OTHER				
	MAJOR STRUCTURES	24,813,854.42	24,813,854.42	5.30	1,315,134
	MINOR STRUCTURES	1,104,892.66	1,104,892.66	1.11	12,264
	TOTAL OTHER	25,918,747.08	25,918,747.08		1,327,398
	TOTAL STRUCTURES AND IMPROVEMENTS	30,028,740.20	31,143,938.45		1,328,332
376.00	MAINS				
	LOW PRESSURE	1,827,171,621.32	2,076,101,781.04	1.87	36,495,606
	REGULAR PRESSURE	1,614,677,492.44	1,813,370,922.29	1.90	32,566,460
	TOTAL MAINS	3,441,849,113.76	3,889,472,703.33		69,062,066
378.00	MEASURING AND REGULATING STATION EQUIPMENT - GENERAL	126,432,635.05	159,321,070.99	2.13	3,043,277
380.00	SERVICES	923,796,287.48	1,015,208,273.79	1.93	18,711,394
381.00	METERS	161,988,768.96	143,016,571.31	3.59	5,474,846
381.20	METERS - INTELS	4,900,521.88	45,917,535.03	5.81	1,476,265
382.00	METER INSTALLATIONS	77,746,128.10	67,768,708.33	1.95	1,418,770
385.00	INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT	13,385,526.32	13,415,312.12	1.91	255,948
386.00	OTHER PROPERTY ON CUSTOMER PREMISES	14,644,532.28	14,644,532.28	-	0
387.00	OTHER EQUIPMENT	16,485,526.11	16,485,526.11	4.43	730,309
	TOTAL DISTRIBUTION PLANT	4,823,019,505.22	5,409,063,919.44		101,662,455
GENERAL PLANT					
389.02	LAND RIGHTS AND RIGHTS OF WAY	52,996.00	52,996.00	0.96	509
390.00	STRUCTURES AND IMPROVEMENTS				
	OWNED	52,392,830.51	59,974,285.46	2.69	1,511,338
	LEASED - NORTH SHORE	8,112,867.83	8,148,983.51	6.48	526,884
	TOTAL STRUCTURES AND IMPROVEMENTS	60,505,698.34	68,123,268.97		2,038,222
391.01	OFFICE FURNITURE AND EQUIPMENT - FURNITURE	2,788,315.93	2,757,606.49	2.77	76,811
391.02	OFFICE FURNITURE AND EQUIPMENT - COMPUTERS	8,851,344.78	5,808,661.56	-	0
391.03	OFFICE FURNITURE AND EQUIPMENT - EQUIPMENT	134,732.04	189,910.86	11.82	19,186
392.00	TRANSPORTATION EQUIPMENT				
	AUTOMOBILES	0.00	0.00	-	0
	TRUCKS	80,359,196.86	84,693,239.36	13.03	10,753,166
	TRAILERS	5,596,703.95	6,496,879.25	10.53	636,727
	TOTAL TRANSPORTATION EQUIPMENT	85,955,900.81	91,190,118.61		11,389,893
393.00	STORES EQUIPMENT	456.77	456.77	-	0
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	7,497,931.21	9,012,562.37	2.72	224,543
394.01	DUAL FUEL STATIONS	398,116.81	398,116.81	2.66	10,590
396.00	POWER OPERATED EQUIPMENT	17,340,827.91	17,856,534.17	6.71	1,180,871
397.02	COMMUNICATION EQUIPMENT - TELEPHONE	19,674,407.48	18,273,988.78	6.45	1,223,836
397.03	COMMUNICATION EQUIPMENT - MICROWAVE	16,949,828.93	16,950,005.16	4.89	828,851
397.10	COMMUNICATION EQUIPMENT - STRUCTURES	28,654.98	28,654.98	12.43	3,562
397.20	COMMUNICATION EQUIPMENT - RADIO	1,988,426.51	653,457.96	6.71	88,635
398.00	MISCELLANEOUS EQUIPMENT	54,885.82	54,885.82	1.93	1,059
	TOTAL GENERAL PLANT	222,222,524.32	231,351,225.31		17,086,568
	TOTAL DEPRECIABLE GAS PLANT	5,738,377,251.41	6,363,456,368.96		144,429,586

PEOPLES NATURAL GAS COMPANY LLC

TABLE 4. AMORTIZATION OF EXPERIENCED AND ESTIMATED NET SALVAGE

ACCOUNT (1)	2022		2023		2024		2025		2026		NET SALVAGE (12)	SALVAGE ACCRUAL (13)=(12)/5
	COST OF REMOVAL (2)	GROSS SALVAGE (3)	COST OF REMOVAL (4)	GROSS SALVAGE (5)	COST OF REMOVAL (6)	GROSS SALVAGE (7)	COST OF REMOVAL (8)	GROSS SALVAGE (9)	COST OF REMOVAL (10)	GROSS SALVAGE (11)		
332.00	1,324		2,544,899		12,327		4,320		136,054	2,709	(2,686,215)	(539,243)
333.00	128,575								771,950		(900,525)	(180,105)
334.00									453		(453)	(91)
351.00					178,852		471,802				(650,654)	(130,131)
352.00		6,939	181,890		284,716		2,280,536		43,233		(2,790,375)	(558,075)
367.00			1,774		35,301		57,068		24,600	551	(111,252)	(22,250)
369.00					378,692		1,824,637		25,799		(2,229,128)	(445,826)
375.00					671						(671)	(134)
376.00	262,145	(327)	8,652,109		6,640,588		4,598,591		2,204,043	11,564	(22,346,238)	(4,489,248)
378.00			4,928		94,523		(28,955)		140,023		(210,519)	(42,104)
380.00			743,999		1,122,598		11,295,684		2,461,351		(15,623,633)	(3,124,727)
382.00	5,184		1,178			8,391,000	(79,096)	1,864,607	82,812	1,414,267	(10,077)	(2,015)
392.00		5,644					(84,065)		(17,648)	5,987	11,777,229	2,355,446
397.02											5,987	1,197
TOTAL	397,228	12,255	12,130,777	0	8,748,267	8,391,000	20,340,522	1,864,607	5,872,670	1,435,077	(35,786,524)	(7,157,306)

PART VI. SERVICE LIFE STATISTICS



PLACEMENT BAND 1894-2008

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	150,430		0.0000	1.0000	100.00
0.5	150,539		0.0000	1.0000	100.00
1.5	140,212		0.0000	1.0000	100.00
2.5	79,212		0.0000	1.0000	100.00
3.5	18,103		0.0000	1.0000	100.00
4.5	99,854		0.0000	1.0000	100.00
5.5	94,244		0.0000	1.0000	100.00
6.5	94,244		0.0000	1.0000	100.00
7.5	94,244		0.0000	1.0000	100.00
8.5	94,244		0.0000	1.0000	100.00
9.5	94,906		0.0000	1.0000	100.00
10.5	104,000		0.0000	1.0000	100.00
11.5	103,900		0.0000	1.0000	100.00
12.5	103,900		0.0000	1.0000	100.00
13.5	106,642		0.0000	1.0000	100.00
14.5	37,362		0.0000	1.0000	100.00
15.5	37,362		0.0000	1.0000	100.00
16.5	37,362		0.0000	1.0000	100.00
17.5	37,362		0.0000	1.0000	100.00
18.5	37,362		0.0000	1.0000	100.00
19.5	37,362		0.0000	1.0000	100.00
20.5	37,362		0.0000	1.0000	100.00
21.5	37,362		0.0000	1.0000	100.00
22.5	37,362		0.0000	1.0000	100.00
23.5	37,362		0.0000	1.0000	100.00
24.5	37,362		0.0000	1.0000	100.00
25.5	37,362		0.0000	1.0000	100.00
26.5	37,362		0.0000	1.0000	100.00
27.5	37,362		0.0000	1.0000	100.00
28.5	37,359		0.0000	1.0000	100.00
29.5	35,082		0.0000	1.0000	100.00
30.5	34,808		0.0000	1.0000	100.00
31.5	34,808		0.0000	1.0000	100.00
32.5	34,808		0.0000	1.0000	100.00
33.5	34,808		0.0000	1.0000	100.00
34.5	34,808		0.0000	1.0000	100.00
35.5	34,808		0.0000	1.0000	100.00
36.5	34,808		0.0000	1.0000	100.00
37.5	34,808		0.0000	1.0000	100.00
38.5	34,808		0.0000	1.0000	100.00

PLACEMENT BAND 1894-2008

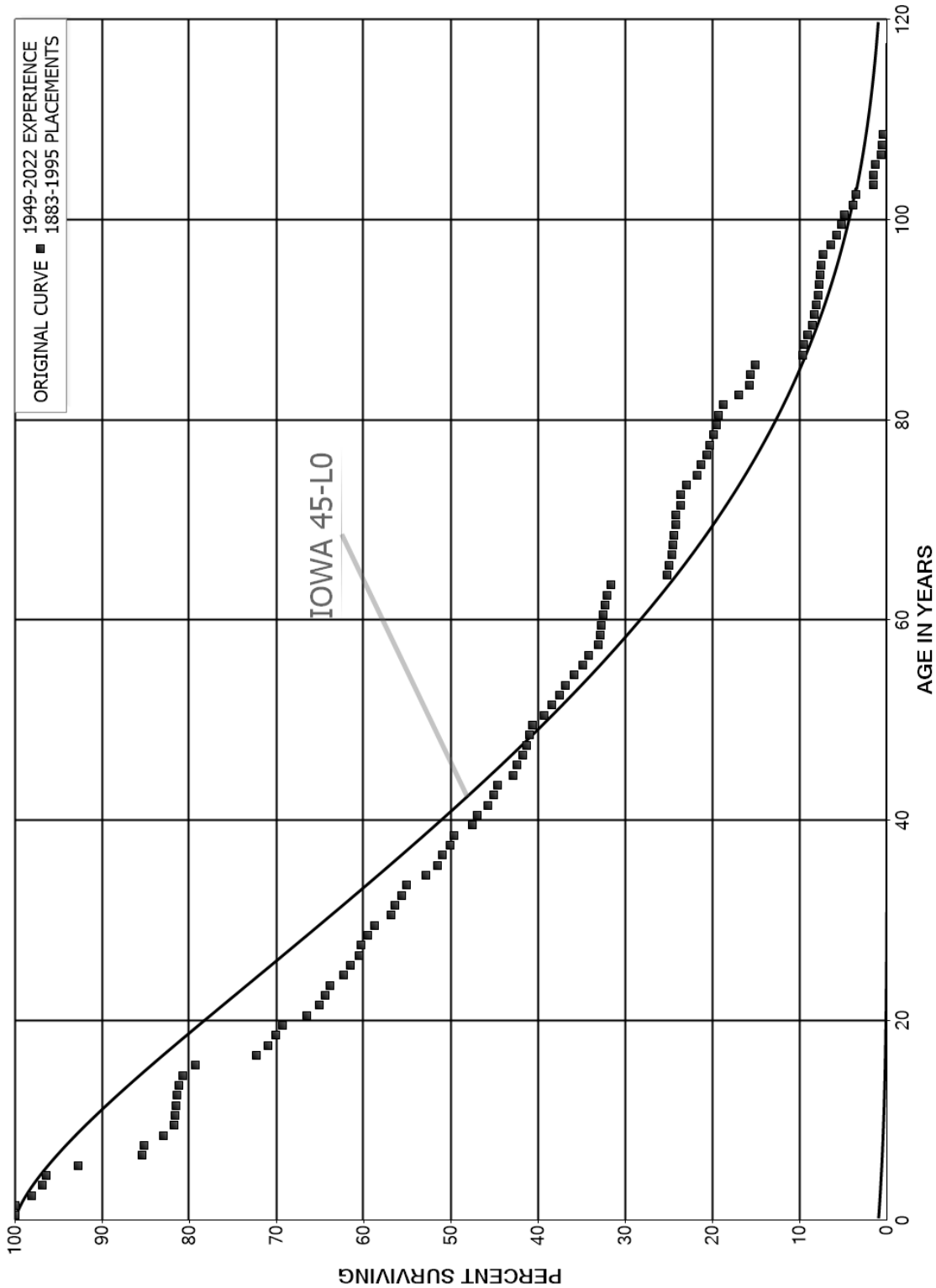
EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	29,151		0.0000	1.0000	100.00
40.5	29,151		0.0000	1.0000	100.00
41.5	29,151		0.0000	1.0000	100.00
42.5	29,151		0.0000	1.0000	100.00
43.5	29,157		0.0000	1.0000	100.00
44.5	29,157		0.0000	1.0000	100.00
45.5	29,157		0.0000	1.0000	100.00
46.5	29,157		0.0000	1.0000	100.00
47.5	29,157		0.0000	1.0000	100.00
48.5	29,157		0.0000	1.0000	100.00
49.5	29,157		0.0000	1.0000	100.00
50.5	29,157		0.0000	1.0000	100.00
51.5	29,157		0.0000	1.0000	100.00
52.5	29,157		0.0000	1.0000	100.00
53.5	29,157		0.0000	1.0000	100.00
54.5	29,157		0.0000	1.0000	100.00
55.5	29,349		0.0000	1.0000	100.00
56.5	28,965		0.0000	1.0000	100.00
57.5	28,965		0.0000	1.0000	100.00
58.5	29,030		0.0000	1.0000	100.00
59.5	29,030		0.0000	1.0000	100.00
60.5	29,030		0.0000	1.0000	100.00
61.5	29,030		0.0000	1.0000	100.00
62.5	29,030		0.0000	1.0000	100.00
63.5	29,030		0.0000	1.0000	100.00
64.5	29,030		0.0000	1.0000	100.00
65.5	29,030	16,938	0.5835	0.4165	100.00
66.5	12,093		0.0000	1.0000	41.65
67.5	12,093		0.0000	1.0000	41.65
68.5	11,430		0.0000	1.0000	41.65
69.5	11,430		0.0000	1.0000	41.65
70.5	11,430	8,993	0.7868	0.2132	41.65
71.5	2,437		0.0000	1.0000	8.88
72.5	71		0.0000	1.0000	8.88
73.5	71		0.0000	1.0000	8.88
74.5	71		0.0000	1.0000	8.88
75.5	71		0.0000	1.0000	8.88
76.5	71		0.0000	1.0000	8.88
77.5	71		0.0000	1.0000	8.88
78.5	71		0.0000	1.0000	8.88

PLACEMENT BAND 1894-2008

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	71		0.0000	1.0000	8.88
80.5	71		0.0000	1.0000	8.88
81.5	71		0.0000	1.0000	8.88
82.5	71		0.0000	1.0000	8.88
83.5	71		0.0000	1.0000	8.88
84.5	71		0.0000	1.0000	8.88
85.5	71		0.0000	1.0000	8.88
86.5	71		0.0000	1.0000	8.88
87.5	71		0.0000	1.0000	8.88
88.5	71		0.0000	1.0000	8.88
89.5	71		0.0000	1.0000	8.88
90.5	71		0.0000	1.0000	8.88
91.5	71		0.0000	1.0000	8.88
92.5	71		0.0000	1.0000	8.88
93.5	71		0.0000	1.0000	8.88
94.5	71		0.0000	1.0000	8.88
95.5	71		0.0000	1.0000	8.88
96.5	71		0.0000	1.0000	8.88
97.5	71		0.0000	1.0000	8.88
98.5	71		0.0000	1.0000	8.88
99.5	71		0.0000	1.0000	8.88
100.5	71		0.0000	1.0000	8.88
101.5	71		0.0000	1.0000	8.88
102.5	71		0.0000	1.0000	8.88
103.5	71	71	1.0000		8.88
104.5					



PLACEMENT BAND 1883-1995

EXPERIENCE BAND 1949-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,942,658		0.0000	1.0000	100.00
0.5	5,128,111	1,325	0.0003	0.9997	100.00
1.5	1,415,847	27,078	0.0191	0.9809	99.97
2.5	919,202	11,403	0.0124	0.9876	98.06
3.5	1,006,321	4,918	0.0049	0.9951	96.85
4.5	999,779	37,723	0.0377	0.9623	96.37
5.5	978,857	76,977	0.0786	0.9214	92.74
6.5	905,474	3,163	0.0035	0.9965	85.44
7.5	911,528	23,996	0.0263	0.9737	85.14
8.5	893,187	12,244	0.0137	0.9863	82.90
9.5	890,644	1,910	0.0021	0.9979	81.77
10.5	890,950	697	0.0008	0.9992	81.59
11.5	899,408	1,050	0.0012	0.9988	81.53
12.5	902,200	3,337	0.0037	0.9963	81.43
13.5	925,039	4,977	0.0054	0.9946	81.13
14.5	918,423	15,447	0.0168	0.9832	80.69
15.5	918,673	81,418	0.0886	0.9114	79.34
16.5	840,570	15,970	0.0190	0.9810	72.31
17.5	855,943	10,160	0.0119	0.9881	70.93
18.5	848,426	10,113	0.0119	0.9881	70.09
19.5	840,921	33,729	0.0401	0.9599	69.26
20.5	812,739	16,928	0.0208	0.9792	66.48
21.5	796,841	9,023	0.0113	0.9887	65.09
22.5	788,107	6,131	0.0078	0.9922	64.36
23.5	785,038	19,569	0.0249	0.9751	63.86
24.5	791,574	9,919	0.0125	0.9875	62.26
25.5	794,035	12,258	0.0154	0.9846	61.48
26.5	783,527	3,100	0.0040	0.9960	60.53
27.5	784,093	10,969	0.0140	0.9860	60.29
28.5	778,500	10,060	0.0129	0.9871	59.45
29.5	769,068	23,825	0.0310	0.9690	58.68
30.5	746,600	5,602	0.0075	0.9925	56.86
31.5	742,643	11,446	0.0154	0.9846	56.44
32.5	738,145	6,124	0.0083	0.9917	55.57
33.5	736,819	31,114	0.0422	0.9578	55.11
34.5	706,898	17,563	0.0248	0.9752	52.78
35.5	692,790	7,055	0.0102	0.9898	51.47
36.5	687,580	12,469	0.0181	0.9819	50.94
37.5	678,287	5,982	0.0088	0.9912	50.02
38.5	674,025	27,590	0.0409	0.9591	49.58

PLACEMENT BAND 1883-1995

EXPERIENCE BAND 1949-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	649,000	7,988	0.0123	0.9877	47.55
40.5	640,371	17,418	0.0272	0.9728	46.97
41.5	623,362	8,679	0.0139	0.9861	45.69
42.5	582,621	5,381	0.0092	0.9908	45.05
43.5	249,718	9,931	0.0398	0.9602	44.64
44.5	149,553	1,562	0.0104	0.9896	42.86
45.5	147,599	2,245	0.0152	0.9848	42.41
46.5	146,452	1,570	0.0107	0.9893	41.77
47.5	147,472	1,323	0.0090	0.9910	41.32
48.5	142,509	1,119	0.0079	0.9921	40.95
49.5	146,515	4,754	0.0324	0.9676	40.63
50.5	141,446	3,374	0.0239	0.9761	39.31
51.5	143,512	3,111	0.0217	0.9783	38.37
52.5	142,149	2,869	0.0202	0.9798	37.54
53.5	144,112	3,782	0.0262	0.9738	36.78
54.5	142,555	3,747	0.0263	0.9737	35.82
55.5	139,431	2,717	0.0195	0.9805	34.88
56.5	138,557	4,415	0.0319	0.9681	34.20
57.5	134,061	1,092	0.0081	0.9919	33.11
58.5	132,977	375	0.0028	0.9972	32.84
59.5	136,181	1,129	0.0083	0.9917	32.74
60.5	131,305	692	0.0053	0.9947	32.47
61.5	130,086	859	0.0066	0.9934	32.30
62.5	129,038	1,855	0.0144	0.9856	32.09
63.5	126,632	25,727	0.2032	0.7968	31.63
64.5	100,658	889	0.0088	0.9912	25.20
65.5	99,946	1,258	0.0126	0.9874	24.98
66.5	98,011	461	0.0047	0.9953	24.66
67.5	96,903	800	0.0083	0.9917	24.55
68.5	95,822	463	0.0048	0.9952	24.35
69.5	95,063	386	0.0041	0.9959	24.23
70.5	91,437	1,841	0.0201	0.9799	24.13
71.5	89,749	291	0.0032	0.9968	23.64
72.5	88,152	2,093	0.0237	0.9763	23.57
73.5	85,247	4,588	0.0538	0.9462	23.01
74.5	79,460	1,699	0.0214	0.9786	21.77
75.5	75,855	2,463	0.0325	0.9675	21.30
76.5	73,003	1,328	0.0182	0.9818	20.61
77.5	72,644	1,593	0.0219	0.9781	20.24
78.5	68,799	1,175	0.0171	0.9829	19.79

PLACEMENT BAND 1883-1995

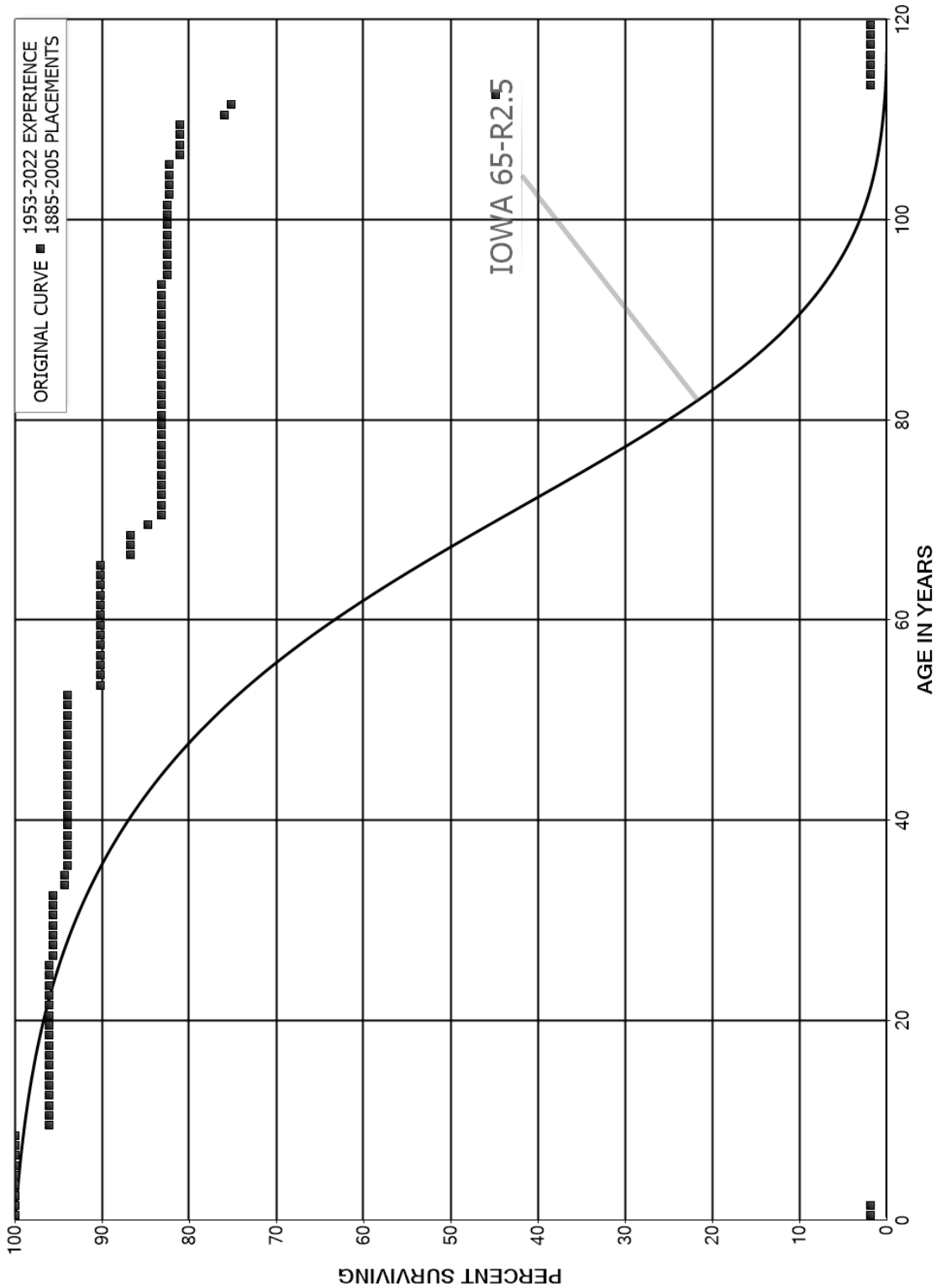
EXPERIENCE BAND 1949-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	53,252	438	0.0082	0.9918	19.46
80.5	38,500	1,057	0.0275	0.9725	19.30
81.5	51,497	4,971	0.0965	0.9035	18.77
82.5	46,125	3,202	0.0694	0.9306	16.95
83.5	42,964	371	0.0086	0.9914	15.78
84.5	42,593	1,422	0.0334	0.9666	15.64
85.5	41,131	14,880	0.3618	0.6382	15.12
86.5	26,182	534	0.0204	0.9796	9.65
87.5	25,717	1,198	0.0466	0.9534	9.45
88.5	24,578	1,481	0.0603	0.9397	9.01
89.5	23,062	442	0.0192	0.9808	8.47
90.5	22,605	522	0.0231	0.9769	8.31
91.5	22,058	857	0.0388	0.9612	8.11
92.5	21,168	343	0.0162	0.9838	7.80
93.5	20,758	272	0.0131	0.9869	7.67
94.5	20,354	288	0.0141	0.9859	7.57
95.5	19,989	615	0.0308	0.9692	7.47
96.5	19,493	2,317	0.1189	0.8811	7.24
97.5	17,176	1,690	0.0984	0.9016	6.38
98.5	15,481	1,677	0.1083	0.8917	5.75
99.5	13,608	716	0.0526	0.9474	5.13
100.5	12,588	2,575	0.2046	0.7954	4.86
101.5	9,991	977	0.0978	0.9022	3.86
102.5	9,040	5,021	0.5554	0.4446	3.48
103.5	4,056	87	0.0215	0.9785	1.55
104.5	3,968	541	0.1364	0.8636	1.52
105.5	3,424	1,956	0.5711	0.4289	1.31
106.5	1,418	230	0.1623	0.8377	0.56
107.5	1,112	93	0.0836	0.9164	0.47
108.5	1,070		0.0000	1.0000	0.43
109.5	1,070		0.0000	1.0000	0.43
110.5	1,070		0.0000	1.0000	0.43
111.5	1,070		0.0000	1.0000	0.43
112.5	1,070	51	0.0472	0.9528	0.43
113.5	974		0.0000	1.0000	0.41
114.5	974		0.0000	1.0000	0.41
115.5	974		0.0000	1.0000	0.41
116.5	974		0.0000	1.0000	0.41
117.5	974		0.0000	1.0000	0.41
118.5	974		0.0000	1.0000	0.41

PLACEMENT BAND 1883-1995

EXPERIENCE BAND 1949-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	974		0.0000	1.0000	0.41
120.5	974		0.0000	1.0000	0.41
121.5	634		0.0000	1.0000	0.41
122.5	634		0.0000	1.0000	0.41
123.5	634		0.0000	1.0000	0.41
124.5	634		0.0000	1.0000	0.41
125.5	13		0.0000	1.0000	0.41
126.5	13		0.0000	1.0000	0.41
127.5	13		0.0000	1.0000	0.41
128.5	13		0.0000	1.0000	0.41
129.5	13		0.0000	1.0000	0.41
130.5	13		0.0000	1.0000	0.41
131.5	13		0.0000	1.0000	0.41
132.5					0.41



PLACEMENT BAND 1885-2005

EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	36,407		0.0000	1.0000	100.00
0.5	36,392		0.0000	1.0000	100.00
1.5	24,468		0.0000	1.0000	100.00
2.5	24,468		0.0000	1.0000	100.00
3.5	24,172		0.0000	1.0000	100.00
4.5	24,943		0.0000	1.0000	100.00
5.5	24,943		0.0000	1.0000	100.00
6.5	24,943		0.0000	1.0000	100.00
7.5	27,811		0.0000	1.0000	100.00
8.5	27,811	1,103	0.0397	0.9603	100.00
9.5	26,708		0.0000	1.0000	96.03
10.5	26,708		0.0000	1.0000	96.03
11.5	26,708		0.0000	1.0000	96.03
12.5	26,708		0.0000	1.0000	96.03
13.5	26,708		0.0000	1.0000	96.03
14.5	28,745		0.0000	1.0000	96.03
15.5	28,745		0.0000	1.0000	96.03
16.5	28,745		0.0000	1.0000	96.03
17.5	19,625		0.0000	1.0000	96.03
18.5	19,625		0.0000	1.0000	96.03
19.5	19,625		0.0000	1.0000	96.03
20.5	18,439		0.0000	1.0000	96.03
21.5	18,439		0.0000	1.0000	96.03
22.5	18,439		0.0000	1.0000	96.03
23.5	19,555		0.0000	1.0000	96.03
24.5	20,366		0.0000	1.0000	96.03
25.5	20,453	100	0.0049	0.9951	96.03
26.5	20,353		0.0000	1.0000	95.56
27.5	19,457		0.0000	1.0000	95.56
28.5	21,785		0.0000	1.0000	95.56
29.5	25,074		0.0000	1.0000	95.56
30.5	22,643		0.0000	1.0000	95.56
31.5	23,070		0.0000	1.0000	95.56
32.5	24,577	333	0.0135	0.9865	95.56
33.5	23,233		0.0000	1.0000	94.27
34.5	22,775	65	0.0029	0.9971	94.27
35.5	22,192		0.0000	1.0000	94.00
36.5	19,344		0.0000	1.0000	94.00
37.5	15,993		0.0000	1.0000	94.00
38.5	19,360		0.0000	1.0000	94.00

PLACEMENT BAND 1885-2005

EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	19,360		0.0000	1.0000	94.00
40.5	19,360		0.0000	1.0000	94.00
41.5	21,612		0.0000	1.0000	94.00
42.5	20,150		0.0000	1.0000	94.00
43.5	20,090		0.0000	1.0000	94.00
44.5	20,090		0.0000	1.0000	94.00
45.5	20,090		0.0000	1.0000	94.00
46.5	19,572		0.0000	1.0000	94.00
47.5	19,572		0.0000	1.0000	94.00
48.5	16,801		0.0000	1.0000	94.00
49.5	16,801		0.0000	1.0000	94.00
50.5	16,785		0.0000	1.0000	94.00
51.5	19,724		0.0000	1.0000	94.00
52.5	19,313	787	0.0407	0.9593	94.00
53.5	15,761		0.0000	1.0000	90.17
54.5	15,761		0.0000	1.0000	90.17
55.5	16,761		0.0000	1.0000	90.17
56.5	14,426		0.0000	1.0000	90.17
57.5	14,426		0.0000	1.0000	90.17
58.5	14,456		0.0000	1.0000	90.17
59.5	14,456		0.0000	1.0000	90.17
60.5	15,556		0.0000	1.0000	90.17
61.5	15,556		0.0000	1.0000	90.17
62.5	15,170		0.0000	1.0000	90.17
63.5	14,374		0.0000	1.0000	90.17
64.5	26,473		0.0000	1.0000	90.17
65.5	26,473	1,000	0.0378	0.9622	90.17
66.5	43,122		0.0000	1.0000	86.76
67.5	46,749		0.0000	1.0000	86.76
68.5	46,749	1,116	0.0239	0.9761	86.76
69.5	45,634	812	0.0178	0.9822	84.69
70.5	44,822		0.0000	1.0000	83.19
71.5	44,822	4	0.0001	0.9999	83.19
72.5	44,001		0.0000	1.0000	83.18
73.5	42,982		0.0000	1.0000	83.18
74.5	43,615		0.0000	1.0000	83.18
75.5	43,615		0.0000	1.0000	83.18
76.5	44,240		0.0000	1.0000	83.18
77.5	39,389		0.0000	1.0000	83.18
78.5	39,389		0.0000	1.0000	83.18

PLACEMENT BAND 1885-2005

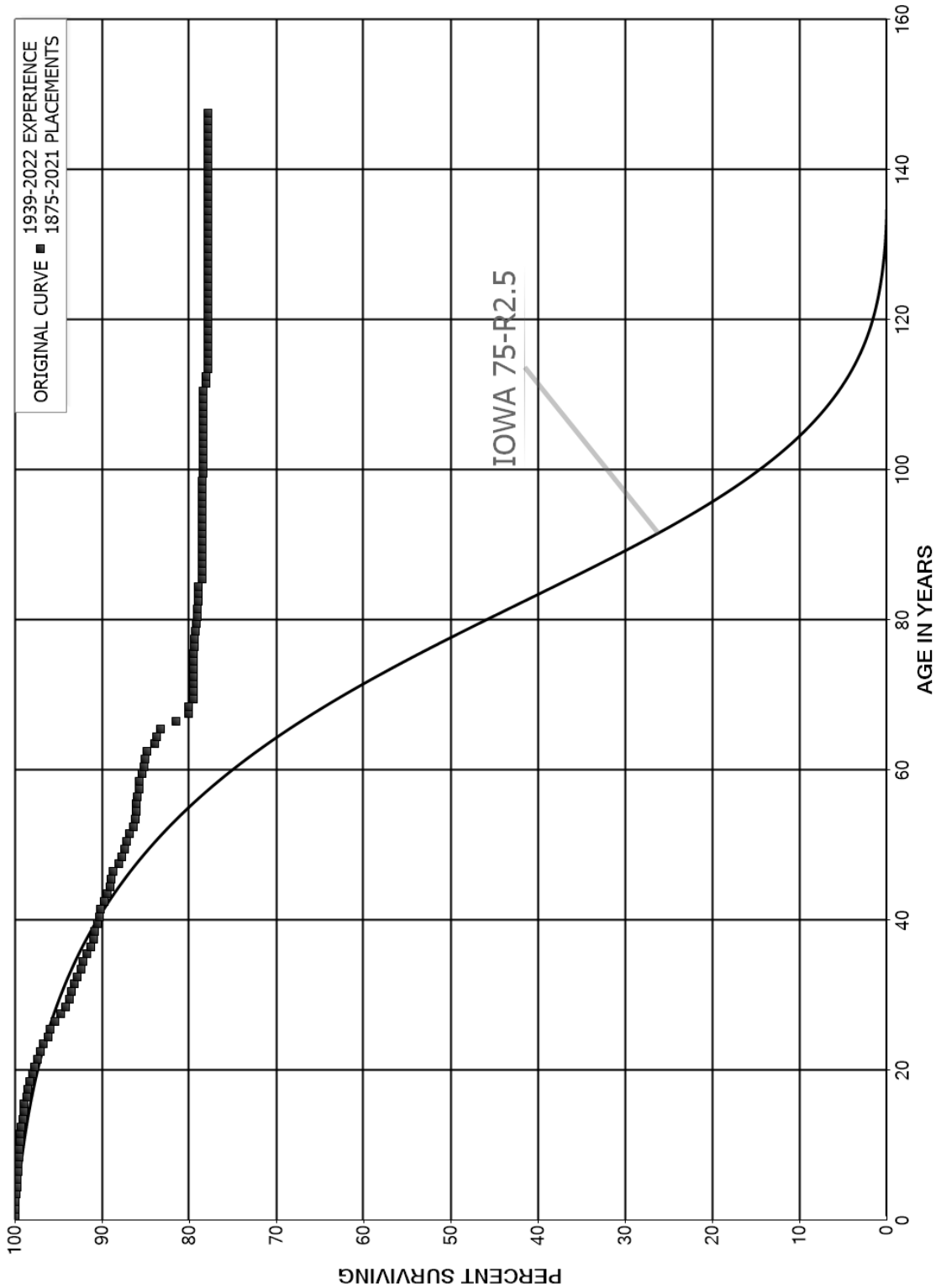
EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	76,934		0.0000	1.0000	83.18
80.5	86,485		0.0000	1.0000	83.18
81.5	83,983		0.0000	1.0000	83.18
82.5	82,731		0.0000	1.0000	83.18
83.5	82,688		0.0000	1.0000	83.18
84.5	81,626		0.0000	1.0000	83.18
85.5	81,669		0.0000	1.0000	83.18
86.5	81,644		0.0000	1.0000	83.18
87.5	79,649		0.0000	1.0000	83.18
88.5	76,761		0.0000	1.0000	83.18
89.5	78,730		0.0000	1.0000	83.18
90.5	78,730		0.0000	1.0000	83.18
91.5	78,730		0.0000	1.0000	83.18
92.5	78,730		0.0000	1.0000	83.18
93.5	78,730	595	0.0076	0.9924	83.18
94.5	78,135		0.0000	1.0000	82.55
95.5	78,092		0.0000	1.0000	82.55
96.5	78,092		0.0000	1.0000	82.55
97.5	78,092		0.0000	1.0000	82.55
98.5	78,066		0.0000	1.0000	82.55
99.5	76,097		0.0000	1.0000	82.55
100.5	76,075		0.0000	1.0000	82.55
101.5	76,052	211	0.0028	0.9972	82.55
102.5	75,864		0.0000	1.0000	82.32
103.5	75,864	30	0.0004	0.9996	82.32
104.5	75,833		0.0000	1.0000	82.29
105.5	75,833	1,100	0.0145	0.9855	82.29
106.5	74,733		0.0000	1.0000	81.10
107.5	74,733		0.0000	1.0000	81.10
108.5	74,733		0.0000	1.0000	81.10
109.5	73,059	4,666	0.0639	0.9361	81.10
110.5	66,718	625	0.0094	0.9906	75.92
111.5	67,768	27,401	0.4043	0.5957	75.21
112.5	40,344	38,670	0.9585	0.0415	44.80
113.5	1,675		0.0000	1.0000	1.86
114.5	1,675		0.0000	1.0000	1.86
115.5	1,675		0.0000	1.0000	1.86
116.5	1,675		0.0000	1.0000	1.86
117.5	1,675		0.0000	1.0000	1.86
118.5	1,675		0.0000	1.0000	1.86

PLACEMENT BAND 1885-2005

EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	1,675		0.0000	1.0000	1.86
120.5	1,675		0.0000	1.0000	1.86
121.5					1.86



PLACEMENT BAND 1875-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,715,666		0.0000	1.0000	100.00
0.5	1,732,053	902	0.0005	0.9995	100.00
1.5	1,746,851	994	0.0006	0.9994	99.95
2.5	1,674,362	850	0.0005	0.9995	99.89
3.5	1,603,327	1,051	0.0007	0.9993	99.84
4.5	1,672,544	1,003	0.0006	0.9994	99.77
5.5	1,665,144	990	0.0006	0.9994	99.72
6.5	1,674,761	1,143	0.0007	0.9993	99.66
7.5	1,661,990	734	0.0004	0.9996	99.59
8.5	1,690,787	613	0.0004	0.9996	99.54
9.5	1,717,251	1,324	0.0008	0.9992	99.51
10.5	1,692,803	1,226	0.0007	0.9993	99.43
11.5	1,658,651	1,388	0.0008	0.9992	99.36
12.5	1,701,004	3,374	0.0020	0.9980	99.28
13.5	1,678,491	1,753	0.0010	0.9990	99.08
14.5	1,654,885	1,297	0.0008	0.9992	98.98
15.5	1,673,252	4,411	0.0026	0.9974	98.90
16.5	1,645,982	2,395	0.0015	0.9985	98.64
17.5	1,658,610	3,086	0.0019	0.9981	98.49
18.5	1,596,318	5,065	0.0032	0.9968	98.31
19.5	1,407,240	3,425	0.0024	0.9976	98.00
20.5	1,079,809	4,047	0.0037	0.9963	97.76
21.5	1,091,599	4,052	0.0037	0.9963	97.39
22.5	1,049,218	3,489	0.0033	0.9967	97.03
23.5	1,022,340	5,186	0.0051	0.9949	96.71
24.5	1,040,485	3,487	0.0034	0.9966	96.22
25.5	1,020,741	5,581	0.0055	0.9945	95.90
26.5	1,009,713	6,656	0.0066	0.9934	95.37
27.5	1,007,170	5,608	0.0056	0.9944	94.74
28.5	975,004	4,731	0.0049	0.9951	94.22
29.5	1,023,539	3,162	0.0031	0.9969	93.76
30.5	976,734	3,495	0.0036	0.9964	93.47
31.5	951,655	2,779	0.0029	0.9971	93.13
32.5	944,208	5,017	0.0053	0.9947	92.86
33.5	941,228	2,106	0.0022	0.9978	92.37
34.5	911,732	3,996	0.0044	0.9956	92.16
35.5	910,425	4,888	0.0054	0.9946	91.76
36.5	895,111	2,553	0.0029	0.9971	91.27
37.5	890,463	1,857	0.0021	0.9979	91.01
38.5	831,354	3,083	0.0037	0.9963	90.82

PLACEMENT BAND 1875-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	784,445	2,013	0.0026	0.9974	90.48
40.5	737,985	894	0.0012	0.9988	90.25
41.5	756,705	3,853	0.0051	0.9949	90.14
42.5	743,393	2,730	0.0037	0.9963	89.68
43.5	721,843	2,221	0.0031	0.9969	89.35
44.5	706,770	1,110	0.0016	0.9984	89.07
45.5	696,987	1,438	0.0021	0.9979	88.93
46.5	667,986	5,219	0.0078	0.9922	88.75
47.5	649,135	2,223	0.0034	0.9966	88.06
48.5	635,920	2,939	0.0046	0.9954	87.76
49.5	611,234	1,463	0.0024	0.9976	87.35
50.5	583,596	2,417	0.0041	0.9959	87.14
51.5	525,556	2,328	0.0044	0.9956	86.78
52.5	496,698	974	0.0020	0.9980	86.40
53.5	491,470	717	0.0015	0.9985	86.23
54.5	487,000	459	0.0009	0.9991	86.10
55.5	481,314	452	0.0009	0.9991	86.02
56.5	467,317	889	0.0019	0.9981	85.94
57.5	460,158	491	0.0011	0.9989	85.78
58.5	452,398	1,696	0.0037	0.9963	85.68
59.5	443,177	1,054	0.0024	0.9976	85.36
60.5	435,248	371	0.0009	0.9991	85.16
61.5	429,419	1,362	0.0032	0.9968	85.09
62.5	424,336	4,273	0.0101	0.9899	84.82
63.5	410,482	1,076	0.0026	0.9974	83.96
64.5	402,990	2,213	0.0055	0.9945	83.74
65.5	394,674	8,510	0.0216	0.9784	83.28
66.5	372,137	6,345	0.0170	0.9830	81.49
67.5	362,327	25	0.0001	0.9999	80.10
68.5	359,974	2,416	0.0067	0.9933	80.09
69.5	354,466		0.0000	1.0000	79.56
70.5	348,596		0.0000	1.0000	79.56
71.5	341,387	331	0.0010	0.9990	79.56
72.5	337,635	31	0.0001	0.9999	79.48
73.5	332,474		0.0000	1.0000	79.47
74.5	333,292	12	0.0000	1.0000	79.47
75.5	331,112	222	0.0007	0.9993	79.47
76.5	327,058	67	0.0002	0.9998	79.41
77.5	322,363	443	0.0014	0.9986	79.40
78.5	314,578	262	0.0008	0.9992	79.29

PLACEMENT BAND 1875-2021

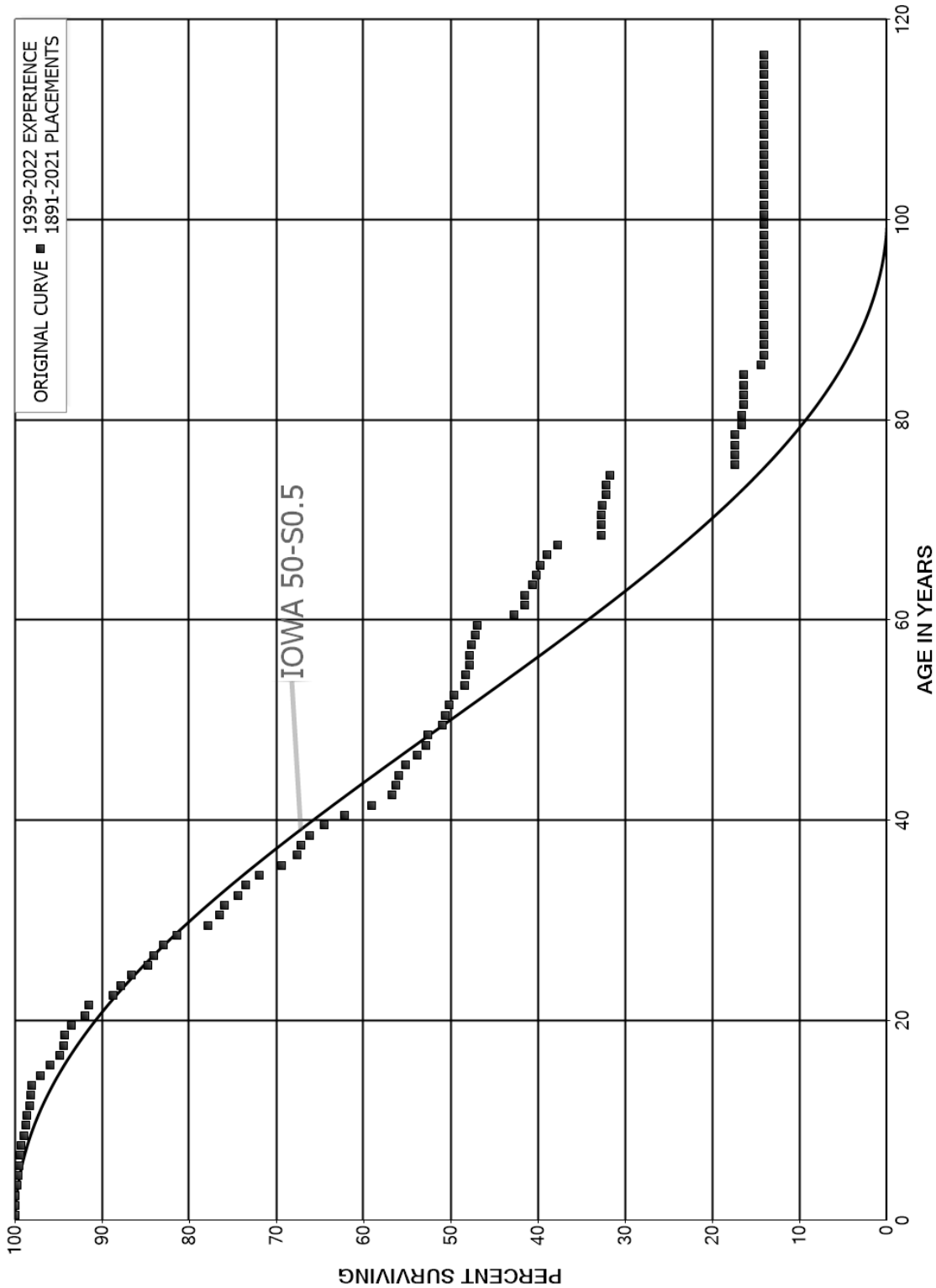
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	307,218	580	0.0019	0.9981	79.22
80.5	298,559		0.0000	1.0000	79.07
81.5	293,573	248	0.0008	0.9992	79.07
82.5	289,067	147	0.0005	0.9995	79.01
83.5	286,038	54	0.0002	0.9998	78.97
84.5	282,188	1,455	0.0052	0.9948	78.95
85.5	278,132		0.0000	1.0000	78.54
86.5	275,550		0.0000	1.0000	78.54
87.5	273,938	29	0.0001	0.9999	78.54
88.5	272,577	70	0.0003	0.9997	78.54
89.5	271,117	14	0.0001	0.9999	78.52
90.5	270,368		0.0000	1.0000	78.51
91.5	269,532		0.0000	1.0000	78.51
92.5	260,751	30	0.0001	0.9999	78.51
93.5	255,543		0.0000	1.0000	78.50
94.5	251,141	11	0.0000	1.0000	78.50
95.5	239,996		0.0000	1.0000	78.50
96.5	227,566		0.0000	1.0000	78.50
97.5	215,803		0.0000	1.0000	78.50
98.5	192,820	134	0.0007	0.9993	78.50
99.5	179,794		0.0000	1.0000	78.45
100.5	164,869		0.0000	1.0000	78.45
101.5	154,939	16	0.0001	0.9999	78.45
102.5	145,534	6	0.0000	1.0000	78.44
103.5	136,450		0.0000	1.0000	78.43
104.5	131,524		0.0000	1.0000	78.43
105.5	119,109	45	0.0004	0.9996	78.43
106.5	108,201		0.0000	1.0000	78.40
107.5	104,156		0.0000	1.0000	78.40
108.5	98,113		0.0000	1.0000	78.40
109.5	89,238		0.0000	1.0000	78.40
110.5	79,520	290	0.0036	0.9964	78.40
111.5	81,690		0.0000	1.0000	78.12
112.5	78,330	298	0.0038	0.9962	78.12
113.5	71,208		0.0000	1.0000	77.82
114.5	68,139		0.0000	1.0000	77.82
115.5	63,354		0.0000	1.0000	77.82
116.5	56,627		0.0000	1.0000	77.82
117.5	46,694		0.0000	1.0000	77.82
118.5	40,434		0.0000	1.0000	77.82

PLACEMENT BAND 1875-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	32,930		0.0000	1.0000	77.82
120.5	28,473		0.0000	1.0000	77.82
121.5	18,465		0.0000	1.0000	77.82
122.5	15,590		0.0000	1.0000	77.82
123.5	12,692		0.0000	1.0000	77.82
124.5	11,283		0.0000	1.0000	77.82
125.5	9,640		0.0000	1.0000	77.82
126.5	8,381		0.0000	1.0000	77.82
127.5	8,162		0.0000	1.0000	77.82
128.5	5,139		0.0000	1.0000	77.82
129.5	4,440		0.0000	1.0000	77.82
130.5	3,515		0.0000	1.0000	77.82
131.5	2,142		0.0000	1.0000	77.82
132.5	269		0.0000	1.0000	77.82
133.5	138		0.0000	1.0000	77.82
134.5	1		0.0000	1.0000	77.82
135.5	1		0.0000	1.0000	77.82
136.5	1		0.0000	1.0000	77.82
137.5	1		0.0000	1.0000	77.82
138.5	1		0.0000	1.0000	77.82
139.5	1		0.0000	1.0000	77.82
140.5	1		0.0000	1.0000	77.82
141.5	1		0.0000	1.0000	77.82
142.5	1		0.0000	1.0000	77.82
143.5	1		0.0000	1.0000	77.82
144.5	1		0.0000	1.0000	77.82
145.5	1		0.0000	1.0000	77.82
146.5	1		0.0000	1.0000	77.82
147.5					77.82



PLACEMENT BAND 1891-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	21,711,178	633	0.0000	1.0000	100.00
0.5	21,727,284	2,643	0.0001	0.9999	100.00
1.5	12,595,976	2,082	0.0002	0.9998	99.98
2.5	4,115,699	9,736	0.0024	0.9976	99.97
3.5	12,588,232	9,851	0.0008	0.9992	99.73
4.5	12,604,590	15,500	0.0012	0.9988	99.65
5.5	12,332,979	21,040	0.0017	0.9983	99.53
6.5	12,288,944	12,543	0.0010	0.9990	99.36
7.5	12,243,803	36,190	0.0030	0.9970	99.26
8.5	12,123,101	26,057	0.0021	0.9979	98.97
9.5	12,087,761	16,609	0.0014	0.9986	98.75
10.5	12,042,105	36,827	0.0031	0.9969	98.62
11.5	11,669,279	15,982	0.0014	0.9986	98.32
12.5	11,477,734	18,491	0.0016	0.9984	98.18
13.5	2,751,065	26,967	0.0098	0.9902	98.02
14.5	2,472,525	26,924	0.0109	0.9891	97.06
15.5	2,470,311	31,294	0.0127	0.9873	96.01
16.5	2,307,234	9,181	0.0040	0.9960	94.79
17.5	2,235,388	3,734	0.0017	0.9983	94.41
18.5	2,214,318	18,248	0.0082	0.9918	94.25
19.5	2,056,944	33,383	0.0162	0.9838	93.48
20.5	1,494,947	6,691	0.0045	0.9955	91.96
21.5	1,538,713	47,613	0.0309	0.9691	91.55
22.5	1,487,717	14,831	0.0100	0.9900	88.72
23.5	1,473,472	19,797	0.0134	0.9866	87.83
24.5	1,279,680	29,165	0.0228	0.9772	86.65
25.5	1,191,114	8,839	0.0074	0.9926	84.68
26.5	1,114,697	14,991	0.0134	0.9866	84.05
27.5	1,031,378	18,482	0.0179	0.9821	82.92
28.5	957,201	42,376	0.0443	0.9557	81.43
29.5	1,060,402	17,876	0.0169	0.9831	77.83
30.5	1,009,926	6,835	0.0068	0.9932	76.52
31.5	965,449	20,938	0.0217	0.9783	76.00
32.5	916,457	10,184	0.0111	0.9889	74.35
33.5	925,283	20,334	0.0220	0.9780	73.52
34.5	894,191	31,490	0.0352	0.9648	71.91
35.5	862,018	22,412	0.0260	0.9740	69.38
36.5	841,182	4,930	0.0059	0.9941	67.57
37.5	767,289	11,007	0.0143	0.9857	67.18
38.5	751,239	19,683	0.0262	0.9738	66.21

PLACEMENT BAND 1891-2021

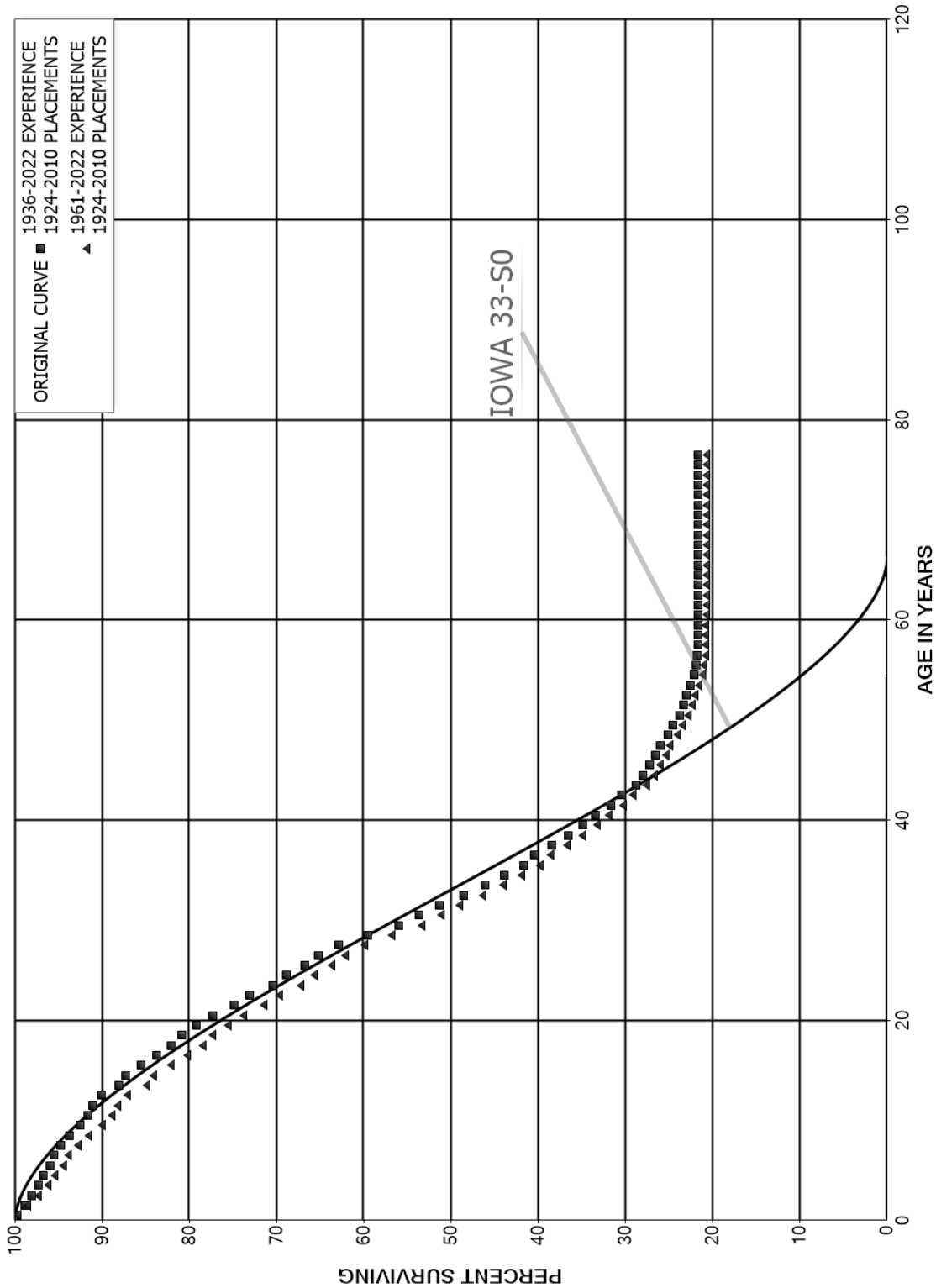
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	681,717	24,489	0.0359	0.9641	64.48
40.5	610,606	30,804	0.0504	0.9496	62.16
41.5	602,714	23,060	0.0383	0.9617	59.03
42.5	568,274	4,653	0.0082	0.9918	56.77
43.5	560,121	4,045	0.0072	0.9928	56.30
44.5	548,348	6,925	0.0126	0.9874	55.90
45.5	539,001	13,582	0.0252	0.9748	55.19
46.5	513,346	9,263	0.0180	0.9820	53.80
47.5	519,277	1,775	0.0034	0.9966	52.83
48.5	377,215	12,537	0.0332	0.9668	52.65
49.5	364,233	2,317	0.0064	0.9936	50.90
50.5	252,467	1,962	0.0078	0.9922	50.57
51.5	220,618	2,604	0.0118	0.9882	50.18
52.5	211,372	4,982	0.0236	0.9764	49.59
53.5	209,853	622	0.0030	0.9970	48.42
54.5	199,418	1,997	0.0100	0.9900	48.28
55.5	192,692		0.0000	1.0000	47.79
56.5	190,892	772	0.0040	0.9960	47.79
57.5	190,120	1,911	0.0100	0.9900	47.60
58.5	144,731	439	0.0030	0.9970	47.12
59.5	141,214	12,692	0.0899	0.9101	46.98
60.5	125,921	3,638	0.0289	0.9711	42.76
61.5	122,283		0.0000	1.0000	41.52
62.5	121,679	2,722	0.0224	0.9776	41.52
63.5	118,943	1,213	0.0102	0.9898	40.59
64.5	116,754	1,416	0.0121	0.9879	40.18
65.5	113,870	2,109	0.0185	0.9815	39.69
66.5	86,713	2,703	0.0312	0.9688	38.96
67.5	84,010	11,097	0.1321	0.8679	37.74
68.5	72,649		0.0000	1.0000	32.76
69.5	72,385		0.0000	1.0000	32.76
70.5	66,406	248	0.0037	0.9963	32.76
71.5	66,157	902	0.0136	0.9864	32.63
72.5	33,543		0.0000	1.0000	32.19
73.5	1,766	23	0.0131	0.9869	32.19
74.5	33,389	15,073	0.4514	0.5486	31.77
75.5	18,272		0.0000	1.0000	17.43
76.5	18,272		0.0000	1.0000	17.43
77.5	18,210	19	0.0011	0.9989	17.43
78.5	18,165	849	0.0467	0.9533	17.41

PLACEMENT BAND 1891-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	17,316		0.0000	1.0000	16.59
80.5	17,301	217	0.0125	0.9875	16.59
81.5	17,053		0.0000	1.0000	16.39
82.5	17,022		0.0000	1.0000	16.39
83.5	17,053		0.0000	1.0000	16.39
84.5	1,263	157	0.1247	0.8753	16.39
85.5	1,040	21	0.0206	0.9794	14.34
86.5	1,018		0.0000	1.0000	14.05
87.5	1,018		0.0000	1.0000	14.05
88.5	1,018		0.0000	1.0000	14.05
89.5	1,018		0.0000	1.0000	14.05
90.5	1,018		0.0000	1.0000	14.05
91.5	1,018		0.0000	1.0000	14.05
92.5	1,018		0.0000	1.0000	14.05
93.5	987		0.0000	1.0000	14.05
94.5	987		0.0000	1.0000	14.05
95.5	987		0.0000	1.0000	14.05
96.5	987		0.0000	1.0000	14.05
97.5	987		0.0000	1.0000	14.05
98.5	987		0.0000	1.0000	14.05
99.5	987		0.0000	1.0000	14.05
100.5	987		0.0000	1.0000	14.05
101.5	987		0.0000	1.0000	14.05
102.5	987		0.0000	1.0000	14.05
103.5	987		0.0000	1.0000	14.05
104.5	531		0.0000	1.0000	14.05
105.5	74		0.0000	1.0000	14.05
106.5	531		0.0000	1.0000	14.05
107.5	531		0.0000	1.0000	14.05
108.5	531		0.0000	1.0000	14.05
109.5	531		0.0000	1.0000	14.05
110.5	531		0.0000	1.0000	14.05
111.5	531		0.0000	1.0000	14.05
112.5	457		0.0000	1.0000	14.05
113.5	457		0.0000	1.0000	14.05
114.5	457		0.0000	1.0000	14.05
115.5	457		0.0000	1.0000	14.05
116.5					14.05



PLACEMENT BAND 1924-2010

EXPERIENCE BAND 1936-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	487,275	1,535	0.0032	0.9968	100.00
0.5	449,794	3,639	0.0081	0.9919	99.68
1.5	375,538	3,042	0.0081	0.9919	98.88
2.5	372,541	2,901	0.0078	0.9922	98.08
3.5	369,660	2,039	0.0055	0.9945	97.31
4.5	367,569	3,051	0.0083	0.9917	96.78
5.5	360,515	1,597	0.0044	0.9956	95.97
6.5	281,524	2,521	0.0090	0.9910	95.55
7.5	278,945	2,812	0.0101	0.9899	94.69
8.5	275,840	3,622	0.0131	0.9869	93.74
9.5	273,630	2,690	0.0098	0.9902	92.51
10.5	267,626	1,658	0.0062	0.9938	91.60
11.5	267,986	2,731	0.0102	0.9898	91.03
12.5	265,970	5,918	0.0223	0.9777	90.10
13.5	259,337	2,239	0.0086	0.9914	88.10
14.5	257,098	5,288	0.0206	0.9794	87.34
15.5	251,918	5,379	0.0214	0.9786	85.54
16.5	249,317	5,033	0.0202	0.9798	83.71
17.5	242,146	3,354	0.0138	0.9862	82.02
18.5	238,076	5,116	0.0215	0.9785	80.89
19.5	231,274	5,597	0.0242	0.9758	79.15
20.5	224,465	7,017	0.0313	0.9687	77.23
21.5	218,219	5,179	0.0237	0.9763	74.82
22.5	212,874	7,697	0.0362	0.9638	73.04
23.5	201,590	4,574	0.0227	0.9773	70.40
24.5	197,937	6,021	0.0304	0.9696	68.81
25.5	191,338	4,546	0.0238	0.9762	66.71
26.5	182,406	6,536	0.0358	0.9642	65.13
27.5	171,111	8,873	0.0519	0.9481	62.79
28.5	163,437	9,847	0.0602	0.9398	59.54
29.5	154,257	6,422	0.0416	0.9584	55.95
30.5	147,148	6,286	0.0427	0.9573	53.62
31.5	141,018	7,678	0.0544	0.9456	51.33
32.5	131,932	6,788	0.0514	0.9486	48.54
33.5	127,261	6,031	0.0474	0.9526	46.04
34.5	121,847	6,082	0.0499	0.9501	43.86
35.5	114,870	3,452	0.0300	0.9700	41.67
36.5	110,498	5,667	0.0513	0.9487	40.42
37.5	104,527	4,916	0.0470	0.9530	38.34
38.5	95,317	4,527	0.0475	0.9525	36.54

PLACEMENT BAND 1924-2010

EXPERIENCE BAND 1936-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	88,636	3,726	0.0420	0.9580	34.80
40.5	85,971	4,578	0.0533	0.9467	33.34
41.5	78,845	2,851	0.0362	0.9638	31.57
42.5	74,157	4,048	0.0546	0.9454	30.42
43.5	70,254	2,052	0.0292	0.9708	28.76
44.5	67,270	1,860	0.0277	0.9723	27.92
45.5	64,480	1,511	0.0234	0.9766	27.15
46.5	63,919	1,343	0.0210	0.9790	26.52
47.5	61,919	2,135	0.0345	0.9655	25.96
48.5	57,792	1,406	0.0243	0.9757	25.06
49.5	54,543	1,632	0.0299	0.9701	24.45
50.5	51,309	857	0.0167	0.9833	23.72
51.5	49,040	842	0.0172	0.9828	23.33
52.5	46,348	827	0.0178	0.9822	22.92
53.5	42,526	830	0.0195	0.9805	22.52
54.5	39,955	380	0.0095	0.9905	22.08
55.5	38,271	331	0.0087	0.9913	21.87
56.5	35,578	67	0.0019	0.9981	21.68
57.5	34,237		0.0000	1.0000	21.64
58.5	31,581		0.0000	1.0000	21.64
59.5	29,702	91	0.0030	0.9970	21.64
60.5	27,717		0.0000	1.0000	21.57
61.5	25,243		0.0000	1.0000	21.57
62.5	22,714		0.0000	1.0000	21.57
63.5	19,285		0.0000	1.0000	21.57
64.5	16,627		0.0000	1.0000	21.57
65.5	14,322		0.0000	1.0000	21.57
66.5	12,909		0.0000	1.0000	21.57
67.5	12,219		0.0000	1.0000	21.57
68.5	11,545		0.0000	1.0000	21.57
69.5	10,753		0.0000	1.0000	21.57
70.5	9,686		0.0000	1.0000	21.57
71.5	9,092		0.0000	1.0000	21.57
72.5	8,575		0.0000	1.0000	21.57
73.5	7,204		0.0000	1.0000	21.57
74.5	5,714		0.0000	1.0000	21.57
75.5	4,991		0.0000	1.0000	21.57
76.5	4,207		0.0000	1.0000	21.57
77.5	3,990		0.0000	1.0000	21.57
78.5	3,729		0.0000	1.0000	21.57

PLACEMENT BAND 1924-2010

EXPERIENCE BAND 1936-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	3,480		0.0000	1.0000	21.57
80.5	2,850		0.0000	1.0000	21.57
81.5	1,952		0.0000	1.0000	21.57
82.5	995		0.0000	1.0000	21.57
83.5	895		0.0000	1.0000	21.57
84.5	895		0.0000	1.0000	21.57
85.5	363		0.0000	1.0000	21.57
86.5	290		0.0000	1.0000	21.57
87.5	290		0.0000	1.0000	21.57
88.5	290		0.0000	1.0000	21.57
89.5	245		0.0000	1.0000	21.57
90.5	245		0.0000	1.0000	21.57
91.5	26		0.0000	1.0000	21.57
92.5	26		0.0000	1.0000	21.57
93.5	26		0.0000	1.0000	21.57
94.5	26		0.0000	1.0000	21.57
95.5	26		0.0000	1.0000	21.57
96.5					21.57

PLACEMENT BAND 1924-2010

EXPERIENCE BAND 1961-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	335,473	1,535	0.0046	0.9954	100.00
0.5	308,283	3,639	0.0118	0.9882	99.54
1.5	247,923	3,042	0.0123	0.9877	98.37
2.5	258,689	2,901	0.0112	0.9888	97.16
3.5	266,360	2,039	0.0077	0.9923	96.07
4.5	274,865	3,051	0.0111	0.9889	95.34
5.5	278,889	1,597	0.0057	0.9943	94.28
6.5	207,311	2,521	0.0122	0.9878	93.74
7.5	214,132	2,812	0.0131	0.9869	92.60
8.5	215,575	3,622	0.0168	0.9832	91.38
9.5	218,264	2,690	0.0123	0.9877	89.85
10.5	217,673	1,658	0.0076	0.9924	88.74
11.5	224,362	2,731	0.0122	0.9878	88.06
12.5	228,392	5,918	0.0259	0.9741	86.99
13.5	227,049	2,239	0.0099	0.9901	84.74
14.5	230,518	5,288	0.0229	0.9771	83.90
15.5	229,041	5,379	0.0235	0.9765	81.98
16.5	231,292	5,033	0.0218	0.9782	80.05
17.5	228,143	3,354	0.0147	0.9853	78.31
18.5	228,839	5,116	0.0224	0.9776	77.16
19.5	226,772	5,597	0.0247	0.9753	75.43
20.5	222,272	7,017	0.0316	0.9684	73.57
21.5	216,863	5,179	0.0239	0.9761	71.25
22.5	211,518	7,697	0.0364	0.9636	69.55
23.5	201,002	4,574	0.0228	0.9772	67.02
24.5	197,461	6,021	0.0305	0.9695	65.49
25.5	190,862	4,546	0.0238	0.9762	63.49
26.5	181,929	6,536	0.0359	0.9641	61.98
27.5	170,680	8,873	0.0520	0.9480	59.76
28.5	163,026	9,847	0.0604	0.9396	56.65
29.5	154,063	6,422	0.0417	0.9583	53.23
30.5	146,955	6,286	0.0428	0.9572	51.01
31.5	140,859	7,678	0.0545	0.9455	48.83
32.5	131,816	6,788	0.0515	0.9485	46.17
33.5	127,144	6,031	0.0474	0.9526	43.79
34.5	121,847	6,082	0.0499	0.9501	41.71
35.5	114,870	3,452	0.0300	0.9700	39.63
36.5	110,498	5,667	0.0513	0.9487	38.44
37.5	104,527	4,916	0.0470	0.9530	36.47
38.5	95,317	4,527	0.0475	0.9525	34.75

PLACEMENT BAND 1924-2010

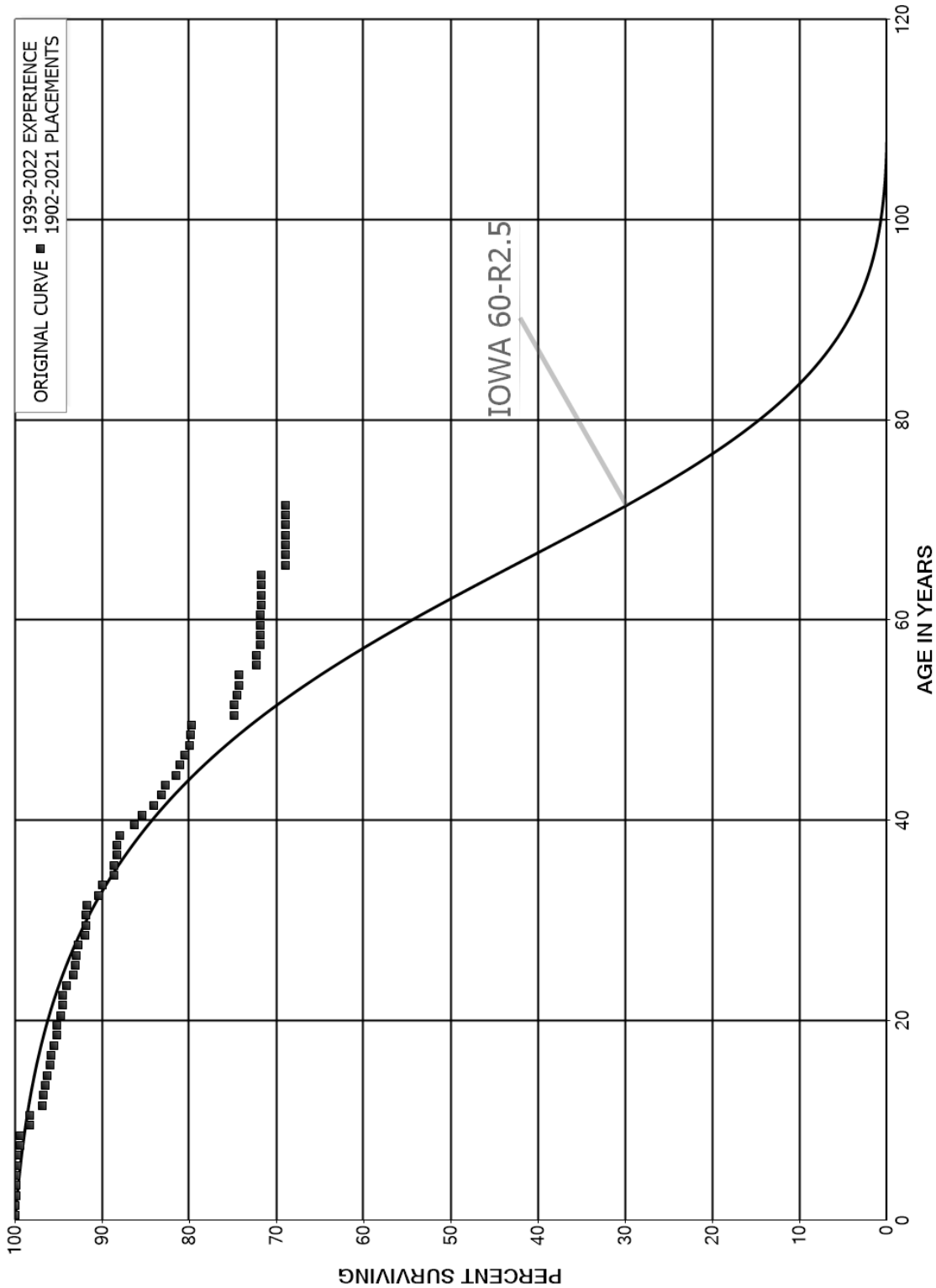
EXPERIENCE BAND 1961-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	88,636	3,726	0.0420	0.9580	33.10
40.5	85,971	4,578	0.0533	0.9467	31.71
41.5	78,845	2,851	0.0362	0.9638	30.02
42.5	74,157	4,048	0.0546	0.9454	28.94
43.5	70,254	2,052	0.0292	0.9708	27.36
44.5	67,270	1,860	0.0277	0.9723	26.56
45.5	64,480	1,511	0.0234	0.9766	25.82
46.5	63,919	1,343	0.0210	0.9790	25.22
47.5	61,919	2,135	0.0345	0.9655	24.69
48.5	57,792	1,406	0.0243	0.9757	23.84
49.5	54,543	1,632	0.0299	0.9701	23.26
50.5	51,309	857	0.0167	0.9833	22.56
51.5	49,040	842	0.0172	0.9828	22.18
52.5	46,348	827	0.0178	0.9822	21.80
53.5	42,526	830	0.0195	0.9805	21.41
54.5	39,955	380	0.0095	0.9905	21.00
55.5	38,271	331	0.0087	0.9913	20.80
56.5	35,578	67	0.0019	0.9981	20.62
57.5	34,237		0.0000	1.0000	20.58
58.5	31,581		0.0000	1.0000	20.58
59.5	29,702	91	0.0030	0.9970	20.58
60.5	27,717		0.0000	1.0000	20.51
61.5	25,243		0.0000	1.0000	20.51
62.5	22,714		0.0000	1.0000	20.51
63.5	19,285		0.0000	1.0000	20.51
64.5	16,627		0.0000	1.0000	20.51
65.5	14,322		0.0000	1.0000	20.51
66.5	12,909		0.0000	1.0000	20.51
67.5	12,219		0.0000	1.0000	20.51
68.5	11,545		0.0000	1.0000	20.51
69.5	10,753		0.0000	1.0000	20.51
70.5	9,686		0.0000	1.0000	20.51
71.5	9,092		0.0000	1.0000	20.51
72.5	8,575		0.0000	1.0000	20.51
73.5	7,204		0.0000	1.0000	20.51
74.5	5,714		0.0000	1.0000	20.51
75.5	4,991		0.0000	1.0000	20.51
76.5	4,207		0.0000	1.0000	20.51
77.5	3,990		0.0000	1.0000	20.51
78.5	3,729		0.0000	1.0000	20.51

PLACEMENT BAND 1924-2010

EXPERIENCE BAND 1961-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	3,480		0.0000	1.0000	20.51
80.5	2,850		0.0000	1.0000	20.51
81.5	1,952		0.0000	1.0000	20.51
82.5	995		0.0000	1.0000	20.51
83.5	895		0.0000	1.0000	20.51
84.5	895		0.0000	1.0000	20.51
85.5	363		0.0000	1.0000	20.51
86.5	290		0.0000	1.0000	20.51
87.5	290		0.0000	1.0000	20.51
88.5	290		0.0000	1.0000	20.51
89.5	245		0.0000	1.0000	20.51
90.5	245		0.0000	1.0000	20.51
91.5	26		0.0000	1.0000	20.51
92.5	26		0.0000	1.0000	20.51
93.5	26		0.0000	1.0000	20.51
94.5	26		0.0000	1.0000	20.51
95.5	26		0.0000	1.0000	20.51
96.5					20.51



PLACEMENT BAND 1902-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	2,487,669	1,797	0.0007	0.9993	100.00
0.5	2,418,042	457	0.0002	0.9998	99.93
1.5	2,383,417	1,130	0.0005	0.9995	99.91
2.5	2,379,355	484	0.0002	0.9998	99.86
3.5	2,375,791	760	0.0003	0.9997	99.84
4.5	2,381,399	978	0.0004	0.9996	99.81
5.5	2,344,092	2,187	0.0009	0.9991	99.77
6.5	2,336,998	5,533	0.0024	0.9976	99.68
7.5	2,238,553	1,796	0.0008	0.9992	99.44
8.5	2,132,609	22,694	0.0106	0.9894	99.36
9.5	2,074,912	973	0.0005	0.9995	98.30
10.5	1,048,803	15,251	0.0145	0.9855	98.26
11.5	910,143	1,383	0.0015	0.9985	96.83
12.5	878,997	1,982	0.0023	0.9977	96.68
13.5	883,205	2,089	0.0024	0.9976	96.46
14.5	836,662	2,911	0.0035	0.9965	96.23
15.5	866,655	1,027	0.0012	0.9988	95.90
16.5	862,770	2,400	0.0028	0.9972	95.79
17.5	856,135	2,750	0.0032	0.9968	95.52
18.5	853,477	367	0.0004	0.9996	95.21
19.5	855,442	4,139	0.0048	0.9952	95.17
20.5	825,261	1,661	0.0020	0.9980	94.71
21.5	806,298	248	0.0003	0.9997	94.52
22.5	807,181	3,592	0.0045	0.9955	94.49
23.5	782,798	6,523	0.0083	0.9917	94.07
24.5	774,108	2,110	0.0027	0.9973	93.29
25.5	762,331	598	0.0008	0.9992	93.03
26.5	762,877	1,929	0.0025	0.9975	92.96
27.5	742,630	6,221	0.0084	0.9916	92.72
28.5	612,201	521	0.0009	0.9991	91.95
29.5	611,047	592	0.0010	0.9990	91.87
30.5	503,033	568	0.0011	0.9989	91.78
31.5	463,148	6,468	0.0140	0.9860	91.68
32.5	451,822	2,164	0.0048	0.9952	90.40
33.5	387,814	5,907	0.0152	0.9848	89.96
34.5	370,225	49	0.0001	0.9999	88.59
35.5	355,648	989	0.0028	0.9972	88.58
36.5	351,744	13	0.0000	1.0000	88.34
37.5	346,327	1,666	0.0048	0.9952	88.33
38.5	319,948	5,826	0.0182	0.9818	87.91

PLACEMENT BAND 1902-2021

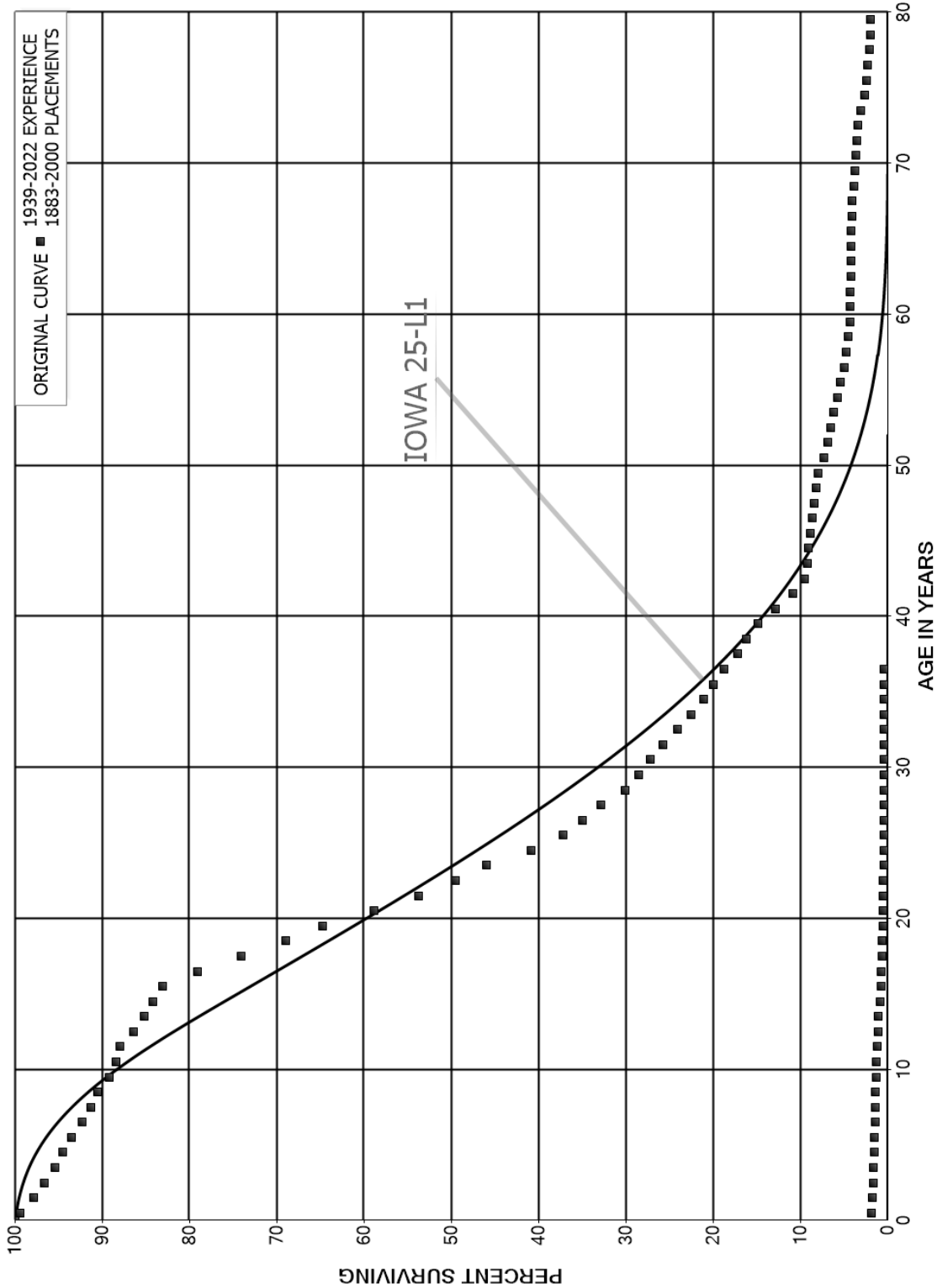
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	310,021	3,261	0.0105	0.9895	86.31
40.5	298,282	4,722	0.0158	0.9842	85.40
41.5	292,584	3,180	0.0109	0.9891	84.05
42.5	187,786	896	0.0048	0.9952	83.13
43.5	184,189	2,745	0.0149	0.9851	82.74
44.5	180,896	905	0.0050	0.9950	81.50
45.5	152,719	1,123	0.0074	0.9926	81.10
46.5	151,388	990	0.0065	0.9935	80.50
47.5	145,712	204	0.0014	0.9986	79.97
48.5	122,885	199	0.0016	0.9984	79.86
49.5	123,000	7,617	0.0619	0.9381	79.73
50.5	114,771		0.0000	1.0000	74.79
51.5	112,457	425	0.0038	0.9962	74.79
52.5	112,032	387	0.0035	0.9965	74.51
53.5	111,400		0.0000	1.0000	74.25
54.5	70,488	1,885	0.0267	0.9733	74.25
55.5	68,603		0.0000	1.0000	72.27
56.5	67,901	418	0.0061	0.9939	72.27
57.5	66,652		0.0000	1.0000	71.82
58.5	62,140		0.0000	1.0000	71.82
59.5	60,818		0.0000	1.0000	71.82
60.5	59,068	85	0.0014	0.9986	71.82
61.5	50,462		0.0000	1.0000	71.72
62.5	48,891		0.0000	1.0000	71.72
63.5	17,182		0.0000	1.0000	71.72
64.5	16,037	625	0.0390	0.9610	71.72
65.5	15,412		0.0000	1.0000	68.92
66.5	15,412		0.0000	1.0000	68.92
67.5	15,001		0.0000	1.0000	68.92
68.5	15,001		0.0000	1.0000	68.92
69.5	15,001		0.0000	1.0000	68.92
70.5	14,429		0.0000	1.0000	68.92
71.5	14,363		0.0000	1.0000	68.92
72.5	14,363		0.0000	1.0000	68.92
73.5	14,141		0.0000	1.0000	68.92
74.5	13,029		0.0000	1.0000	68.92
75.5	12,124		0.0000	1.0000	68.92
76.5	9,665		0.0000	1.0000	68.92
77.5	9,213		0.0000	1.0000	68.92
78.5	9,213		0.0000	1.0000	68.92

PLACEMENT BAND 1902-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	7,196		0.0000	1.0000	68.92
80.5	7,118		0.0000	1.0000	68.92
81.5	7,118		0.0000	1.0000	68.92
82.5	6,482		0.0000	1.0000	68.92
83.5	6,292		0.0000	1.0000	68.92
84.5	5,641		0.0000	1.0000	68.92
85.5	4,355		0.0000	1.0000	68.92
86.5	4,355		0.0000	1.0000	68.92
87.5	4,355		0.0000	1.0000	68.92
88.5	3,753		0.0000	1.0000	68.92
89.5	3,753		0.0000	1.0000	68.92
90.5	3,753		0.0000	1.0000	68.92
91.5	3,318		0.0000	1.0000	68.92
92.5	511		0.0000	1.0000	68.92
93.5	511		0.0000	1.0000	68.92
94.5	511		0.0000	1.0000	68.92
95.5	511		0.0000	1.0000	68.92
96.5	511		0.0000	1.0000	68.92
97.5	126		0.0000	1.0000	68.92
98.5	126		0.0000	1.0000	68.92
99.5	30		0.0000	1.0000	68.92
100.5	30		0.0000	1.0000	68.92
101.5	30		0.0000	1.0000	68.92
102.5	30		0.0000	1.0000	68.92
103.5	30		0.0000	1.0000	68.92
104.5	30		0.0000	1.0000	68.92
105.5	30		0.0000	1.0000	68.92
106.5	30		0.0000	1.0000	68.92
107.5	30		0.0000	1.0000	68.92
108.5	30		0.0000	1.0000	68.92
109.5	30		0.0000	1.0000	68.92
110.5	30		0.0000	1.0000	68.92
111.5	30		0.0000	1.0000	68.92
112.5	30		0.0000	1.0000	68.92
113.5	30		0.0000	1.0000	68.92
114.5	30		0.0000	1.0000	68.92
115.5	30		0.0000	1.0000	68.92
116.5					68.92



PLACEMENT BAND 1883-2000

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	31,844,812	202,885	0.0064	0.9936	100.00
0.5	45,786,431	688,117	0.0150	0.9850	99.36
1.5	48,402,739	632,754	0.0131	0.9869	97.87
2.5	48,839,511	620,640	0.0127	0.9873	96.59
3.5	47,944,751	457,578	0.0095	0.9905	95.36
4.5	47,286,430	489,406	0.0103	0.9897	94.45
5.5	46,802,384	582,529	0.0124	0.9876	93.48
6.5	45,988,422	486,539	0.0106	0.9894	92.31
7.5	45,617,196	427,637	0.0094	0.9906	91.33
8.5	45,487,310	628,482	0.0138	0.9862	90.48
9.5	45,084,774	403,753	0.0090	0.9910	89.23
10.5	44,876,250	269,306	0.0060	0.9940	88.43
11.5	44,818,978	770,708	0.0172	0.9828	87.90
12.5	44,257,876	636,756	0.0144	0.9856	86.39
13.5	44,117,216	512,229	0.0116	0.9884	85.14
14.5	44,029,575	549,701	0.0125	0.9875	84.16
15.5	43,902,594	2,157,750	0.0491	0.9509	83.11
16.5	41,974,148	2,629,152	0.0626	0.9374	79.02
17.5	39,901,688	2,743,110	0.0687	0.9313	74.07
18.5	37,573,286	2,334,916	0.0621	0.9379	68.98
19.5	35,264,952	3,169,194	0.0899	0.9101	64.69
20.5	32,070,480	2,805,438	0.0875	0.9125	58.88
21.5	29,209,941	2,286,212	0.0783	0.9217	53.73
22.5	26,731,795	1,922,343	0.0719	0.9281	49.52
23.5	24,964,652	2,762,468	0.1107	0.8893	45.96
24.5	21,950,241	1,997,367	0.0910	0.9090	40.88
25.5	19,951,463	1,199,423	0.0601	0.9399	37.16
26.5	18,651,129	1,130,483	0.0606	0.9394	34.92
27.5	17,502,055	1,454,926	0.0831	0.9169	32.81
28.5	15,961,829	820,977	0.0514	0.9486	30.08
29.5	15,208,426	744,492	0.0490	0.9510	28.53
30.5	14,530,012	784,285	0.0540	0.9460	27.13
31.5	13,917,200	850,206	0.0611	0.9389	25.67
32.5	13,061,813	854,413	0.0654	0.9346	24.10
33.5	12,752,397	816,476	0.0640	0.9360	22.53
34.5	11,915,507	654,150	0.0549	0.9451	21.08
35.5	11,304,040	682,957	0.0604	0.9396	19.93
36.5	10,547,476	868,524	0.0823	0.9177	18.72
37.5	9,651,301	582,800	0.0604	0.9396	17.18
38.5	9,045,558	702,343	0.0776	0.9224	16.14

PLACEMENT BAND 1883-2000

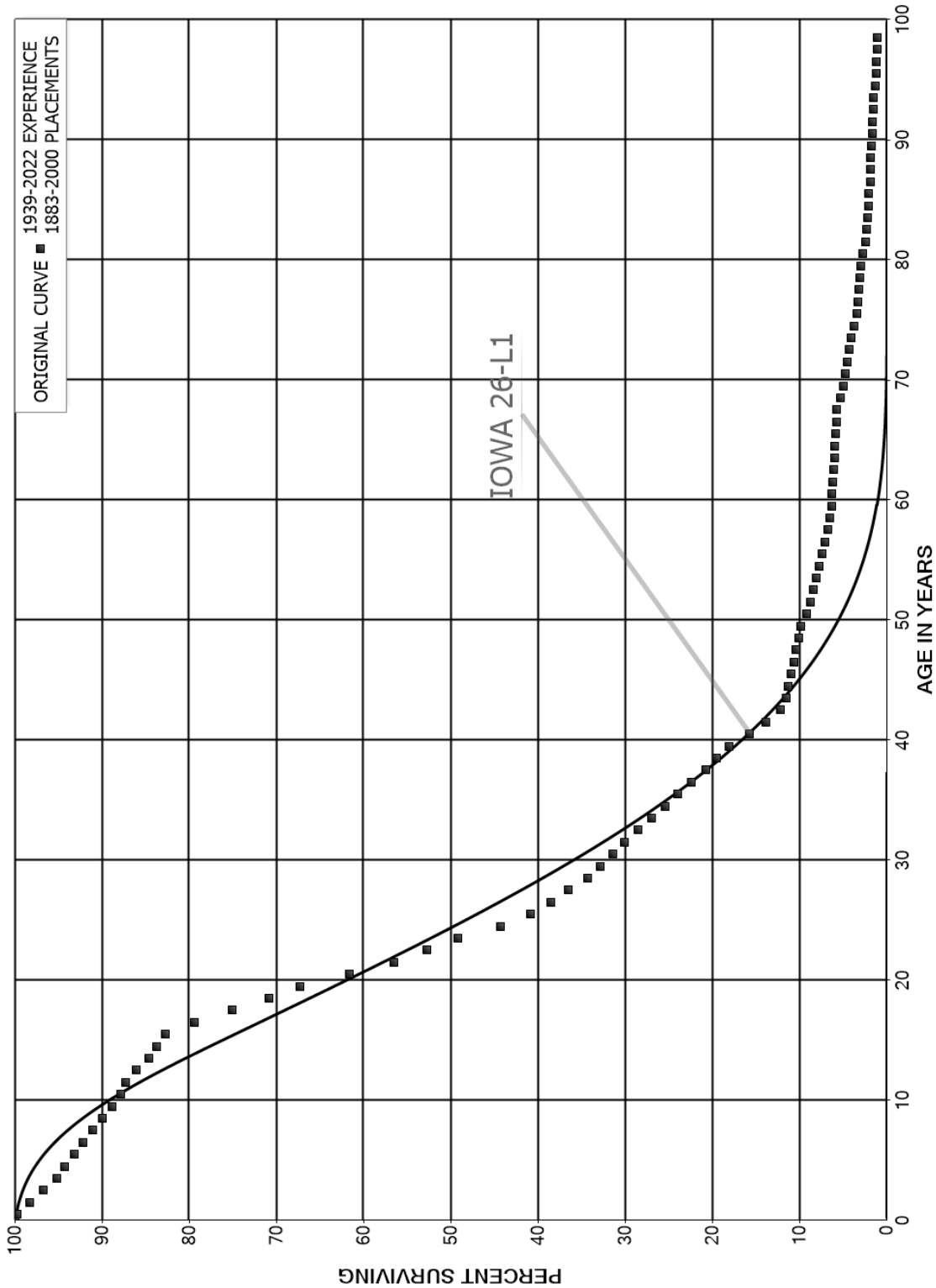
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	8,413,578	1,186,021	0.1410	0.8590	14.89
40.5	7,065,888	1,057,428	0.1497	0.8503	12.79
41.5	6,022,603	735,367	0.1221	0.8779	10.88
42.5	5,309,551	199,762	0.0376	0.9624	9.55
43.5	5,093,409	64,054	0.0126	0.9874	9.19
44.5	4,955,962	111,343	0.0225	0.9775	9.07
45.5	4,795,393	120,268	0.0251	0.9749	8.87
46.5	4,677,436	135,900	0.0291	0.9709	8.65
47.5	4,494,248	102,058	0.0227	0.9773	8.40
48.5	4,402,181	137,329	0.0312	0.9688	8.21
49.5	4,163,323	343,140	0.0824	0.9176	7.95
50.5	3,833,597	244,264	0.0637	0.9363	7.29
51.5	3,530,280	193,549	0.0548	0.9452	6.83
52.5	3,261,095	148,184	0.0454	0.9546	6.46
53.5	3,100,861	209,229	0.0675	0.9325	6.16
54.5	2,832,764	177,042	0.0625	0.9375	5.75
55.5	2,643,729	186,011	0.0704	0.9296	5.39
56.5	2,458,087	154,801	0.0630	0.9370	5.01
57.5	2,298,094	100,918	0.0439	0.9561	4.69
58.5	2,203,758	75,544	0.0343	0.9657	4.49
59.5	2,151,523	10,302	0.0048	0.9952	4.33
60.5	2,107,968	18,901	0.0090	0.9910	4.31
61.5	2,078,489	25,609	0.0123	0.9877	4.27
62.5	2,045,618	7,548	0.0037	0.9963	4.22
63.5	2,032,102	6,686	0.0033	0.9967	4.20
64.5	2,017,317	15,884	0.0079	0.9921	4.19
65.5	1,988,198	25,929	0.0130	0.9870	4.16
66.5	1,897,186	20,595	0.0109	0.9891	4.10
67.5	1,816,950	102,944	0.0567	0.9433	4.06
68.5	1,726,224	46,565	0.0270	0.9730	3.83
69.5	1,682,132	71,407	0.0425	0.9575	3.73
70.5	1,613,730	51,432	0.0319	0.9681	3.57
71.5	1,545,627	45,220	0.0293	0.9707	3.45
72.5	1,486,214	147,087	0.0990	0.9010	3.35
73.5	1,274,556	159,815	0.1254	0.8746	3.02
74.5	1,099,970	105,689	0.0961	0.9039	2.64
75.5	981,332	41,168	0.0420	0.9580	2.39
76.5	975,838	89,654	0.0919	0.9081	2.29
77.5	885,137	46,301	0.0523	0.9477	2.08
78.5	836,414	26,773	0.0320	0.9680	1.97

PLACEMENT BAND 1883-2000

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	772,900	26,291	0.0340	0.9660	1.91
80.5	710,585	24,657	0.0347	0.9653	1.84
81.5	713,349	47,192	0.0662	0.9338	1.78
82.5	669,219	33,258	0.0497	0.9503	1.66
83.5	624,624	22,017	0.0352	0.9648	1.58
84.5	574,500	14,966	0.0261	0.9739	1.52
85.5	549,063	25,377	0.0462	0.9538	1.48
86.5	498,654	18,683	0.0375	0.9625	1.41
87.5	479,010	4,637	0.0097	0.9903	1.36
88.5	473,346	18,778	0.0397	0.9603	1.35
89.5	451,623	10,763	0.0238	0.9762	1.29
90.5	417,947	26,872	0.0643	0.9357	1.26
91.5	369,000	23,757	0.0644	0.9356	1.18
92.5	312,532	9,659	0.0309	0.9691	1.11
93.5	275,503	67,790	0.2461	0.7539	1.07
94.5	229,150	15,682	0.0684	0.9316	0.81
95.5	221,158	11,379	0.0515	0.9485	0.75
96.5	200,423	13,346	0.0666	0.9334	0.71
97.5	180,518	12,308	0.0682	0.9318	0.67
98.5	156,695	17,619	0.1124	0.8876	0.62
99.5	100,906	4,079	0.0404	0.9596	0.55
100.5	102,122	7	0.0001	0.9999	0.53
101.5	79,470	6,877	0.0865	0.9135	0.53
102.5	62,885	6,511	0.1035	0.8965	0.48
103.5	63,929	996	0.0156	0.9844	0.43
104.5	60,322	1,747	0.0290	0.9710	0.43
105.5	50,669	1,709	0.0337	0.9663	0.41
106.5	47,447	3,261	0.0687	0.9313	0.40
107.5	41,100	1,555	0.0378	0.9622	0.37
108.5	31,833		0.0000	1.0000	0.36
109.5	17,222		0.0000	1.0000	0.36
110.5	2,610		0.0000	1.0000	0.36
111.5	14,612		0.0000	1.0000	0.36
112.5	14,612		0.0000	1.0000	0.36
113.5	14,612		0.0000	1.0000	0.36
114.5	14,612		0.0000	1.0000	0.36
115.5	14,612		0.0000	1.0000	0.36
116.5					0.36



PLACEMENT BAND 1883-2000

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	10,722,263	29,152	0.0027	0.9973	100.00
0.5	14,676,310	218,602	0.0149	0.9851	99.73
1.5	15,234,179	240,542	0.0158	0.9842	98.24
2.5	15,063,931	238,011	0.0158	0.9842	96.69
3.5	14,788,426	129,013	0.0087	0.9913	95.16
4.5	14,650,780	183,532	0.0125	0.9875	94.33
5.5	14,317,288	158,492	0.0111	0.9889	93.15
6.5	14,078,555	160,356	0.0114	0.9886	92.12
7.5	13,999,258	167,826	0.0120	0.9880	91.07
8.5	14,072,579	185,669	0.0132	0.9868	89.98
9.5	14,044,442	145,678	0.0104	0.9896	88.79
10.5	14,074,492	89,489	0.0064	0.9936	87.87
11.5	14,147,180	207,120	0.0146	0.9854	87.31
12.5	14,028,483	224,733	0.0160	0.9840	86.03
13.5	13,958,201	157,933	0.0113	0.9887	84.66
14.5	13,985,277	155,399	0.0111	0.9889	83.70
15.5	13,952,236	572,086	0.0410	0.9590	82.77
16.5	13,455,055	739,386	0.0550	0.9450	79.37
17.5	12,901,825	709,957	0.0550	0.9450	75.01
18.5	12,276,322	623,986	0.0508	0.9492	70.88
19.5	11,767,226	990,668	0.0842	0.9158	67.28
20.5	10,849,885	895,059	0.0825	0.9175	61.62
21.5	10,059,379	681,227	0.0677	0.9323	56.53
22.5	9,377,562	632,172	0.0674	0.9326	52.71
23.5	8,790,641	880,398	0.1002	0.8998	49.15
24.5	7,900,443	600,665	0.0760	0.9240	44.23
25.5	7,344,477	416,013	0.0566	0.9434	40.87
26.5	6,898,937	367,766	0.0533	0.9467	38.55
27.5	6,553,016	405,204	0.0618	0.9382	36.50
28.5	6,133,380	255,035	0.0416	0.9584	34.24
29.5	5,929,241	247,265	0.0417	0.9583	32.82
30.5	5,721,654	247,806	0.0433	0.9567	31.45
31.5	5,476,099	279,812	0.0511	0.9489	30.09
32.5	5,173,288	286,063	0.0553	0.9447	28.55
33.5	4,875,624	284,686	0.0584	0.9416	26.97
34.5	4,603,811	269,184	0.0585	0.9415	25.40
35.5	4,368,541	269,874	0.0618	0.9382	23.91
36.5	4,082,290	307,368	0.0753	0.9247	22.43
37.5	3,749,256	220,269	0.0588	0.9412	20.74
38.5	3,537,660	255,971	0.0724	0.9276	19.53

PLACEMENT BAND 1883-2000

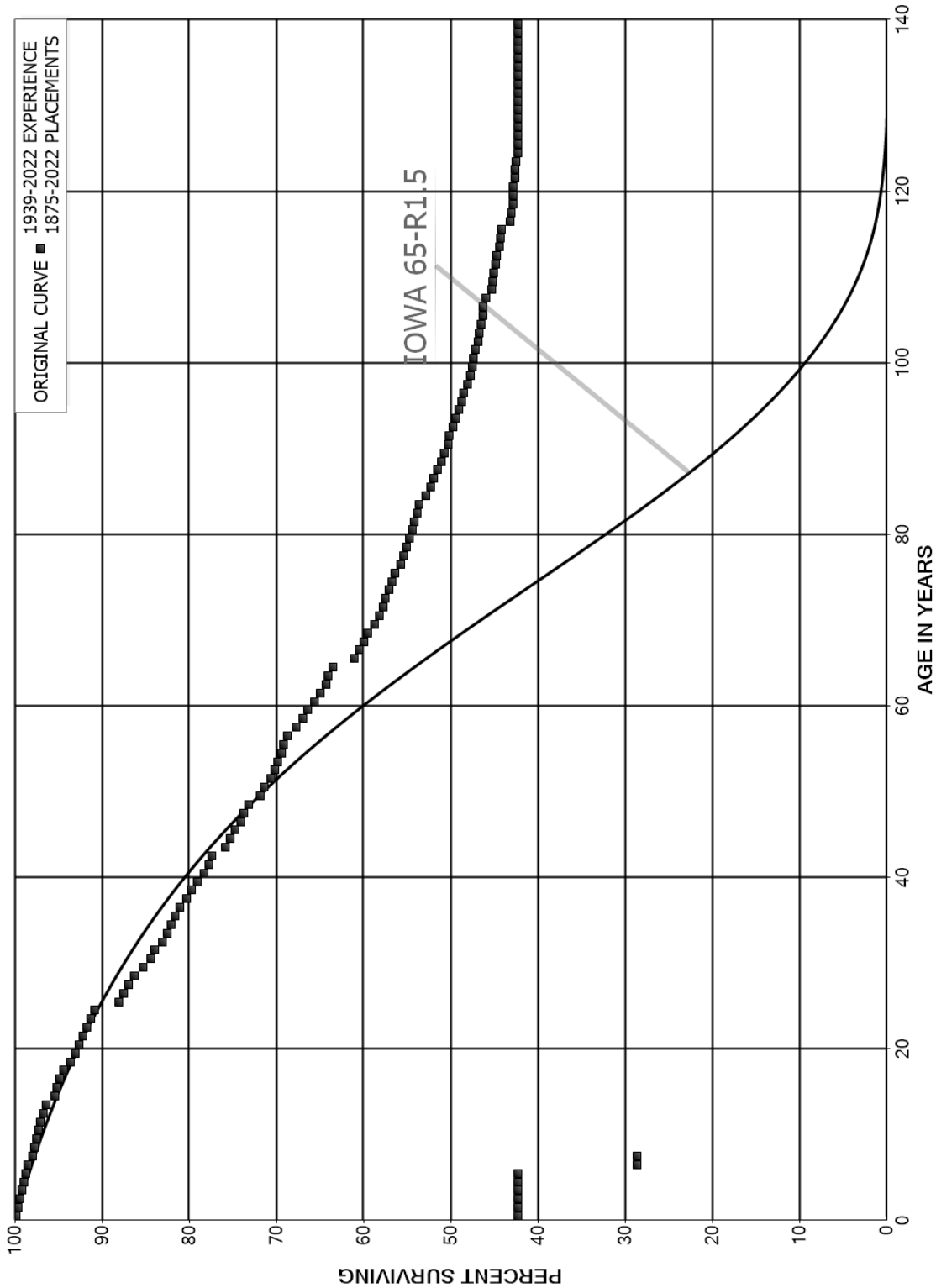
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	3,304,936	435,654	0.1318	0.8682	18.11
40.5	2,854,525	343,703	0.1204	0.8796	15.73
41.5	2,510,751	296,577	0.1181	0.8819	13.83
42.5	2,221,918	126,361	0.0569	0.9431	12.20
43.5	2,072,809	42,055	0.0203	0.9797	11.50
44.5	2,014,176	58,765	0.0292	0.9708	11.27
45.5	1,932,860	64,819	0.0335	0.9665	10.94
46.5	1,872,541	38,670	0.0207	0.9793	10.58
47.5	1,815,500	42,221	0.0233	0.9767	10.36
48.5	1,766,430	57,139	0.0323	0.9677	10.12
49.5	1,681,835	105,463	0.0627	0.9373	9.79
50.5	1,580,417	74,737	0.0473	0.9527	9.17
51.5	1,488,429	50,560	0.0340	0.9660	8.74
52.5	1,420,747	56,872	0.0400	0.9600	8.44
53.5	1,352,471	65,700	0.0486	0.9514	8.11
54.5	1,263,237	51,422	0.0407	0.9593	7.71
55.5	1,198,970	57,819	0.0482	0.9518	7.40
56.5	1,141,148	52,214	0.0458	0.9542	7.04
57.5	1,097,964	35,288	0.0321	0.9679	6.72
58.5	1,063,541	27,333	0.0257	0.9743	6.50
59.5	1,034,136	13,286	0.0128	0.9872	6.34
60.5	1,019,158	10,190	0.0100	0.9900	6.25
61.5	1,003,676	22,231	0.0222	0.9778	6.19
62.5	983,349	9,139	0.0093	0.9907	6.06
63.5	971,469	12,474	0.0128	0.9872	6.00
64.5	954,079	13,224	0.0139	0.9861	5.92
65.5	936,839	12,733	0.0136	0.9864	5.84
66.5	881,505	9,326	0.0106	0.9894	5.76
67.5	824,082	62,268	0.0756	0.9244	5.70
68.5	782,242	41,068	0.0525	0.9475	5.27
69.5	737,109	37,770	0.0512	0.9488	4.99
70.5	699,236	36,376	0.0520	0.9480	4.74
71.5	648,731	23,116	0.0356	0.9644	4.49
72.5	621,199	36,098	0.0581	0.9419	4.33
73.5	543,497	44,464	0.0818	0.9182	4.08
74.5	485,517	39,088	0.0805	0.9195	3.74
75.5	442,168	19,050	0.0431	0.9569	3.44
76.5	433,081	16,769	0.0387	0.9613	3.29
77.5	414,470	12,393	0.0299	0.9701	3.17
78.5	398,457	14,108	0.0354	0.9646	3.07

PLACEMENT BAND 1883-2000

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	373,568	32,891	0.0880	0.9120	2.96
80.5	325,652	31,813	0.0977	0.9023	2.70
81.5	301,450	23,855	0.0791	0.9209	2.44
82.5	280,831	11,732	0.0418	0.9582	2.25
83.5	265,668	12,195	0.0459	0.9541	2.15
84.5	241,709	4,101	0.0170	0.9830	2.05
85.5	233,170	14,971	0.0642	0.9358	2.02
86.5	212,575	3,396	0.0160	0.9840	1.89
87.5	203,054	4,069	0.0200	0.9800	1.86
88.5	198,936	11,600	0.0583	0.9417	1.82
89.5	185,660	7,505	0.0404	0.9596	1.72
90.5	170,537	2,104	0.0123	0.9877	1.65
91.5	162,196	8,165	0.0503	0.9497	1.63
92.5	124,626	3,818	0.0306	0.9694	1.54
93.5	97,826	16,154	0.1651	0.8349	1.50
94.5	101,161	8,042	0.0795	0.9205	1.25
95.5	97,149	905	0.0093	0.9907	1.15
96.5	90,846	7,124	0.0784	0.9216	1.14
97.5	83,244	2,892	0.0347	0.9653	1.05
98.5	75,272	8,870	0.1178	0.8822	1.01
99.5	39,734	643	0.0162	0.9838	0.89
100.5	37,590	3,197	0.0850	0.9150	0.88
101.5	26,449	1,722	0.0651	0.9349	0.80
102.5	21,546	1,090	0.0506	0.9494	0.75
103.5	24,401		0.0000	1.0000	0.71
104.5	21,289	16	0.0008	0.9992	0.71
105.5	17,029	280	0.0165	0.9835	0.71
106.5	18,230	605	0.0332	0.9668	0.70
107.5	16,028	323	0.0202	0.9798	0.68
108.5	11,283		0.0000	1.0000	0.66
109.5	7,197		0.0000	1.0000	0.66
110.5	3,112		0.0000	1.0000	0.66
111.5	4,085		0.0000	1.0000	0.66
112.5	4,085		0.0000	1.0000	0.66
113.5	4,085		0.0000	1.0000	0.66
114.5	4,085		0.0000	1.0000	0.66
115.5	4,085		0.0000	1.0000	0.66
116.5					0.66



PLACEMENT BAND 1875-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	91,425,377	113,969	0.0012	0.9988	100.00
0.5	83,533,509	242,749	0.0029	0.9971	99.88
1.5	84,404,402	170,681	0.0020	0.9980	99.59
2.5	80,493,950	200,711	0.0025	0.9975	99.38
3.5	76,736,369	128,872	0.0017	0.9983	99.14
4.5	74,272,463	183,709	0.0025	0.9975	98.97
5.5	74,802,987	167,344	0.0022	0.9978	98.72
6.5	75,442,074	391,805	0.0052	0.9948	98.50
7.5	74,558,751	199,004	0.0027	0.9973	97.99
8.5	72,620,179	169,283	0.0023	0.9977	97.73
9.5	69,665,682	139,112	0.0020	0.9980	97.50
10.5	65,814,349	148,409	0.0023	0.9977	97.31
11.5	61,220,782	229,600	0.0038	0.9962	97.09
12.5	60,680,370	215,740	0.0036	0.9964	96.72
13.5	58,319,938	616,430	0.0106	0.9894	96.38
14.5	56,259,889	131,096	0.0023	0.9977	95.36
15.5	54,435,564	180,710	0.0033	0.9967	95.14
16.5	53,522,451	239,049	0.0045	0.9955	94.82
17.5	52,159,988	446,101	0.0086	0.9914	94.40
18.5	51,641,942	271,967	0.0053	0.9947	93.59
19.5	48,980,583	278,842	0.0057	0.9943	93.10
20.5	47,506,999	222,668	0.0047	0.9953	92.57
21.5	47,946,812	223,035	0.0047	0.9953	92.14
22.5	46,599,512	191,715	0.0041	0.9959	91.71
23.5	45,376,049	263,638	0.0058	0.9942	91.33
24.5	45,037,595	1,336,653	0.0297	0.9703	90.80
25.5	41,941,597	264,700	0.0063	0.9937	88.10
26.5	40,650,506	257,165	0.0063	0.9937	87.55
27.5	39,838,426	315,394	0.0079	0.9921	87.00
28.5	33,290,386	410,868	0.0123	0.9877	86.31
29.5	32,828,398	311,161	0.0095	0.9905	85.24
30.5	30,648,735	186,269	0.0061	0.9939	84.43
31.5	29,358,070	296,809	0.0101	0.9899	83.92
32.5	28,389,254	191,730	0.0068	0.9932	83.07
33.5	27,938,384	166,089	0.0059	0.9941	82.51
34.5	25,494,708	136,790	0.0054	0.9946	82.02
35.5	25,237,185	147,122	0.0058	0.9942	81.58
36.5	24,249,258	228,685	0.0094	0.9906	81.10
37.5	21,989,592	159,031	0.0072	0.9928	80.34
38.5	21,185,110	181,698	0.0086	0.9914	79.76

PLACEMENT BAND 1875-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	20,629,994	210,131	0.0102	0.9898	79.07
40.5	19,081,498	127,067	0.0067	0.9933	78.27
41.5	18,561,281	96,641	0.0052	0.9948	77.75
42.5	17,521,237	330,679	0.0189	0.9811	77.34
43.5	16,637,179	132,848	0.0080	0.9920	75.88
44.5	15,847,058	107,784	0.0068	0.9932	75.28
45.5	14,607,207	128,570	0.0088	0.9912	74.77
46.5	13,917,651	78,612	0.0056	0.9944	74.11
47.5	12,810,082	89,759	0.0070	0.9930	73.69
48.5	12,041,864	215,174	0.0179	0.9821	73.17
49.5	11,254,843	68,939	0.0061	0.9939	71.86
50.5	9,886,119	112,255	0.0114	0.9886	71.42
51.5	9,261,488	63,957	0.0069	0.9931	70.61
52.5	9,010,594	37,036	0.0041	0.9959	70.13
53.5	8,353,251	50,980	0.0061	0.9939	69.84
54.5	8,072,445	32,900	0.0041	0.9959	69.41
55.5	7,780,684	43,912	0.0056	0.9944	69.13
56.5	7,541,209	114,743	0.0152	0.9848	68.74
57.5	7,218,370	73,851	0.0102	0.9898	67.69
58.5	6,893,408	67,184	0.0097	0.9903	67.00
59.5	6,544,838	75,441	0.0115	0.9885	66.35
60.5	6,348,352	59,467	0.0094	0.9906	65.58
61.5	6,103,125	59,911	0.0098	0.9902	64.97
62.5	5,814,329	24,757	0.0043	0.9957	64.33
63.5	5,439,155	45,537	0.0084	0.9916	64.06
64.5	5,179,308	203,952	0.0394	0.9606	63.52
65.5	4,482,791	41,735	0.0093	0.9907	61.02
66.5	4,084,082	34,657	0.0085	0.9915	60.45
67.5	4,008,484	28,639	0.0071	0.9929	59.94
68.5	3,928,321	53,030	0.0135	0.9865	59.51
69.5	3,677,561	31,389	0.0085	0.9915	58.71
70.5	3,552,468	30,588	0.0086	0.9914	58.21
71.5	3,545,212	14,182	0.0040	0.9960	57.70
72.5	3,387,863	24,210	0.0071	0.9929	57.47
73.5	3,267,110	19,458	0.0060	0.9940	57.06
74.5	3,233,541	16,145	0.0050	0.9950	56.72
75.5	3,136,087	36,908	0.0118	0.9882	56.44
76.5	3,026,451	19,143	0.0063	0.9937	55.78
77.5	2,898,998	21,366	0.0074	0.9926	55.42
78.5	2,743,217	15,769	0.0057	0.9943	55.01

PLACEMENT BAND 1875-2022

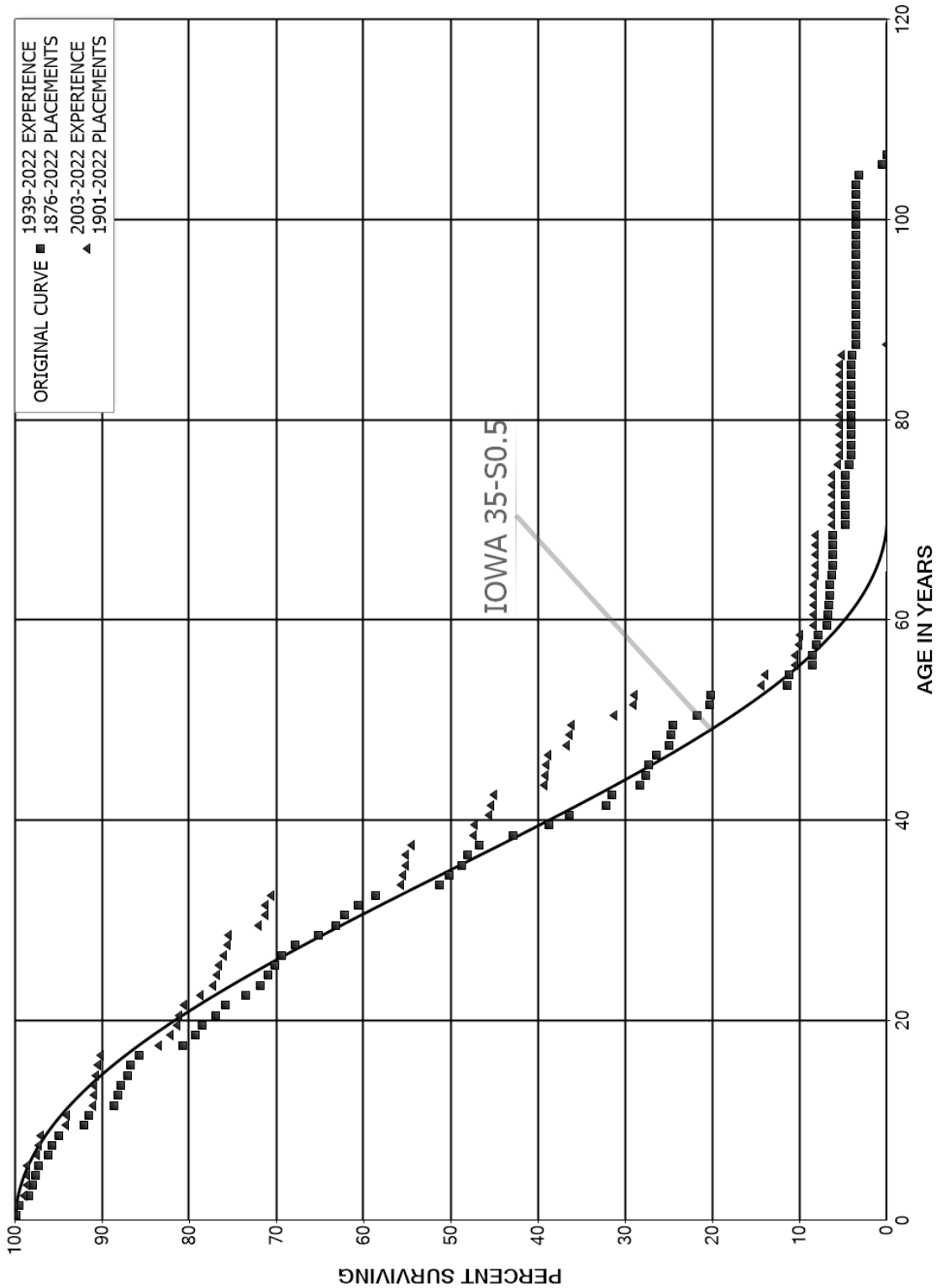
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	2,645,614	14,723	0.0056	0.9944	54.70
80.5	2,572,260	8,680	0.0034	0.9966	54.39
81.5	2,364,891	18,092	0.0077	0.9923	54.21
82.5	2,271,124	8,984	0.0040	0.9960	53.79
83.5	2,186,083	32,497	0.0149	0.9851	53.58
84.5	2,065,580	18,857	0.0091	0.9909	52.79
85.5	2,030,611	14,265	0.0070	0.9930	52.30
86.5	2,017,296	17,361	0.0086	0.9914	51.94
87.5	1,991,547	17,993	0.0090	0.9910	51.49
88.5	1,960,634	11,611	0.0059	0.9941	51.02
89.5	1,936,259	16,920	0.0087	0.9913	50.72
90.5	1,898,154	5,121	0.0027	0.9973	50.28
91.5	1,852,124	13,894	0.0075	0.9925	50.14
92.5	1,789,967	12,124	0.0068	0.9932	49.77
93.5	1,739,672	10,943	0.0063	0.9937	49.43
94.5	1,688,397	12,311	0.0073	0.9927	49.12
95.5	1,711,650	9,258	0.0054	0.9946	48.76
96.5	1,699,771	16,819	0.0099	0.9901	48.50
97.5	1,612,940	9,768	0.0061	0.9939	48.02
98.5	1,645,946	8,205	0.0050	0.9950	47.73
99.5	1,730,998	4,186	0.0024	0.9976	47.49
100.5	1,606,797	6,576	0.0041	0.9959	47.37
101.5	1,488,223	10,969	0.0074	0.9926	47.18
102.5	1,443,100	4,918	0.0034	0.9966	46.83
103.5	1,416,012	6,308	0.0045	0.9955	46.67
104.5	1,286,174	4,503	0.0035	0.9965	46.46
105.5	1,102,761	864	0.0008	0.9992	46.30
106.5	1,074,210	8,539	0.0079	0.9921	46.27
107.5	1,033,351	13,506	0.0131	0.9869	45.90
108.5	984,293	2,150	0.0022	0.9978	45.30
109.5	867,580	2,497	0.0029	0.9971	45.20
110.5	792,969	3,364	0.0042	0.9958	45.07
111.5	863,045	2,796	0.0032	0.9968	44.88
112.5	829,076	6,313	0.0076	0.9924	44.73
113.5	797,977	1,663	0.0021	0.9979	44.39
114.5	706,684	1,878	0.0027	0.9973	44.30
115.5	598,268	13,795	0.0231	0.9769	44.18
116.5	565,838	1,758	0.0031	0.9969	43.16
117.5	457,283	1,606	0.0035	0.9965	43.03
118.5	409,358	694	0.0017	0.9983	42.88

PLACEMENT BAND 1875-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	344,632		0.0000	1.0000	42.80
120.5	281,884	1,229	0.0044	0.9956	42.80
121.5	202,974	102	0.0005	0.9995	42.62
122.5	155,713	187	0.0012	0.9988	42.60
123.5	110,141	648	0.0059	0.9941	42.55
124.5	80,892		0.0000	1.0000	42.30
125.5	74,292		0.0000	1.0000	42.30
126.5	71,478		0.0000	1.0000	42.30
127.5	63,704		0.0000	1.0000	42.30
128.5	45,891		0.0000	1.0000	42.30
129.5	41,295		0.0000	1.0000	42.30
130.5	38,792		0.0000	1.0000	42.30
131.5	38,652		0.0000	1.0000	42.30
132.5	2,176		0.0000	1.0000	42.30
133.5	1,024		0.0000	1.0000	42.30
134.5	1,024		0.0000	1.0000	42.30
135.5	1,024		0.0000	1.0000	42.30
136.5	502		0.0000	1.0000	42.30
137.5	502		0.0000	1.0000	42.30
138.5	502		0.0000	1.0000	42.30
139.5	502		0.0000	1.0000	42.30
140.5	502		0.0000	1.0000	42.30
141.5	502		0.0000	1.0000	42.30
142.5	502		0.0000	1.0000	42.30
143.5	502		0.0000	1.0000	42.30
144.5	502		0.0000	1.0000	42.30
145.5	502	163	0.3241	0.6759	42.30
146.5	339		0.0000	1.0000	28.59
147.5					28.59



PLACEMENT BAND 1876-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	63,331,221	116,507	0.0018	0.9982	100.00
0.5	58,597,917	201,735	0.0034	0.9966	99.82
1.5	51,001,041	554,113	0.0109	0.9891	99.47
2.5	43,912,098	186,744	0.0043	0.9957	98.39
3.5	43,941,608	184,477	0.0042	0.9958	97.97
4.5	45,641,030	151,782	0.0033	0.9967	97.56
5.5	44,241,974	475,509	0.0107	0.9893	97.24
6.5	43,470,288	228,469	0.0053	0.9947	96.19
7.5	42,849,001	332,362	0.0078	0.9922	95.69
8.5	42,510,688	1,265,888	0.0298	0.9702	94.94
9.5	41,007,571	249,394	0.0061	0.9939	92.12
10.5	40,717,004	1,327,798	0.0326	0.9674	91.56
11.5	36,866,335	172,717	0.0047	0.9953	88.57
12.5	34,338,417	119,084	0.0035	0.9965	88.16
13.5	29,790,332	248,133	0.0083	0.9917	87.85
14.5	27,393,899	128,712	0.0047	0.9953	87.12
15.5	22,205,007	247,526	0.0111	0.9889	86.71
16.5	19,518,960	1,150,501	0.0589	0.9411	85.74
17.5	17,153,099	294,400	0.0172	0.9828	80.69
18.5	16,209,786	153,433	0.0095	0.9905	79.30
19.5	14,581,165	289,671	0.0199	0.9801	78.55
20.5	7,678,150	118,975	0.0155	0.9845	76.99
21.5	7,555,902	225,144	0.0298	0.9702	75.80
22.5	7,253,762	166,100	0.0229	0.9771	73.54
23.5	6,911,423	81,638	0.0118	0.9882	71.86
24.5	6,736,786	84,204	0.0125	0.9875	71.01
25.5	6,423,585	62,097	0.0097	0.9903	70.12
26.5	6,097,360	136,477	0.0224	0.9776	69.44
27.5	4,478,135	177,396	0.0396	0.9604	67.89
28.5	4,223,858	133,926	0.0317	0.9683	65.20
29.5	4,058,927	62,208	0.0153	0.9847	63.13
30.5	4,049,889	100,154	0.0247	0.9753	62.16
31.5	3,930,965	131,400	0.0334	0.9666	60.63
32.5	3,566,548	445,935	0.1250	0.8750	58.60
33.5	3,170,738	68,145	0.0215	0.9785	51.27
34.5	3,034,321	87,618	0.0289	0.9711	50.17
35.5	2,970,186	41,266	0.0139	0.9861	48.72
36.5	2,915,905	81,541	0.0280	0.9720	48.05
37.5	2,608,599	217,085	0.0832	0.9168	46.70
38.5	2,384,624	230,268	0.0966	0.9034	42.82

PLACEMENT BAND 1876-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,965,168	115,746	0.0589	0.9411	38.68
40.5	1,642,196	190,165	0.1158	0.8842	36.40
41.5	1,614,936	35,793	0.0222	0.9778	32.19
42.5	1,572,577	157,252	0.1000	0.9000	31.47
43.5	1,403,371	37,458	0.0267	0.9733	28.33
44.5	1,349,755	14,540	0.0108	0.9892	27.57
45.5	1,301,327	44,399	0.0341	0.9659	27.27
46.5	1,253,051	64,595	0.0516	0.9484	26.34
47.5	1,189,629	11,311	0.0095	0.9905	24.99
48.5	746,399	6,999	0.0094	0.9906	24.75
49.5	738,401	82,928	0.1123	0.8877	24.52
50.5	653,580	44,275	0.0677	0.9323	21.76
51.5	428,920	1,614	0.0038	0.9962	20.29
52.5	414,446	180,110	0.4346	0.5654	20.21
53.5	229,204	5,291	0.0231	0.9769	11.43
54.5	223,362	52,512	0.2351	0.7649	11.16
55.5	170,850	1,740	0.0102	0.9898	8.54
56.5	169,110	7,035	0.0416	0.9584	8.45
57.5	162,120	4,647	0.0287	0.9713	8.10
58.5	157,053	20,801	0.1324	0.8676	7.87
59.5	133,351	1,359	0.0102	0.9898	6.83
60.5	131,663	3,817	0.0290	0.9710	6.76
61.5	127,899	173	0.0014	0.9986	6.56
62.5	127,796	726	0.0057	0.9943	6.55
63.5	126,970	5,067	0.0399	0.9601	6.52
64.5	121,892	494	0.0041	0.9959	6.26
65.5	116,028	235	0.0020	0.9980	6.23
66.5	81,718	61	0.0007	0.9993	6.22
67.5	80,913	45	0.0006	0.9994	6.21
68.5	80,897	19,014	0.2350	0.7650	6.21
69.5	9,135		0.0000	1.0000	4.75
70.5	9,391	13	0.0013	0.9987	4.75
71.5	9,378		0.0000	1.0000	4.74
72.5	5,737	71	0.0123	0.9877	4.74
73.5	2,026		0.0000	1.0000	4.68
74.5	5,361	470	0.0876	0.9124	4.68
75.5	4,586	212	0.0462	0.9538	4.27
76.5	4,669		0.0000	1.0000	4.08
77.5	4,669		0.0000	1.0000	4.08
78.5	4,384		0.0000	1.0000	4.08

PLACEMENT BAND 1876-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	4,384		0.0000	1.0000	4.08
80.5	4,129		0.0000	1.0000	4.08
81.5	4,129		0.0000	1.0000	4.08
82.5	4,129		0.0000	1.0000	4.08
83.5	4,129	4	0.0010	0.9990	4.08
84.5	953		0.0000	1.0000	4.07
85.5	953	17	0.0175	0.9825	4.07
86.5	631	72	0.1146	0.8854	4.00
87.5	559		0.0000	1.0000	3.54
88.5	559		0.0000	1.0000	3.54
89.5	559		0.0000	1.0000	3.54
90.5	559		0.0000	1.0000	3.54
91.5	559		0.0000	1.0000	3.54
92.5	559		0.0000	1.0000	3.54
93.5	559		0.0000	1.0000	3.54
94.5	559		0.0000	1.0000	3.54
95.5	559		0.0000	1.0000	3.54
96.5	559		0.0000	1.0000	3.54
97.5	559		0.0000	1.0000	3.54
98.5	559		0.0000	1.0000	3.54
99.5	559		0.0000	1.0000	3.54
100.5	559		0.0000	1.0000	3.54
101.5	559		0.0000	1.0000	3.54
102.5	559		0.0000	1.0000	3.54
103.5	559	55	0.0986	0.9014	3.54
104.5	504	429	0.8522	0.1478	3.19
105.5	74	74	1.0000		0.47
106.5					

PLACEMENT BAND 1901-2022

EXPERIENCE BAND 2003-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	41,481,990		0.0000	1.0000	100.00
0.5	45,328,585	21,232	0.0005	0.9995	100.00
1.5	37,938,549	445,147	0.0117	0.9883	99.95
2.5	31,538,658	76,291	0.0024	0.9976	98.78
3.5	31,848,587	20,000	0.0006	0.9994	98.54
4.5	33,941,166		0.0000	1.0000	98.48
5.5	32,943,106	348,117	0.0106	0.9894	98.48
6.5	32,471,183	80,311	0.0025	0.9975	97.44
7.5	34,071,675	101,585	0.0030	0.9970	97.20
8.5	34,174,129	1,014,874	0.0297	0.9703	96.91
9.5	32,925,742	10,427	0.0003	0.9997	94.03
10.5	33,521,812	1,067,791	0.0319	0.9681	94.00
11.5	30,352,920	73,582	0.0024	0.9976	91.01
12.5	28,501,523	664	0.0000	1.0000	90.79
13.5	24,989,744	31,613	0.0013	0.9987	90.78
14.5	22,732,104	58,848	0.0026	0.9974	90.67
15.5	17,164,301	74,821	0.0044	0.9956	90.43
16.5	14,977,945	1,104,890	0.0738	0.9262	90.04
17.5	13,025,822	216,172	0.0166	0.9834	83.40
18.5	12,338,100	110,942	0.0090	0.9910	82.01
19.5	10,656,321	23,836	0.0022	0.9978	81.28
20.5	3,951,202	27,897	0.0071	0.9929	81.09
21.5	3,798,016	90,686	0.0239	0.9761	80.52
22.5	3,713,938	68,831	0.0185	0.9815	78.60
23.5	3,723,823	22,071	0.0059	0.9941	77.14
24.5	3,603,847	8,102	0.0022	0.9978	76.69
25.5	3,402,327	23,102	0.0068	0.9932	76.51
26.5	3,107,351	18,880	0.0061	0.9939	75.99
27.5	1,589,717	2,782	0.0018	0.9982	75.53
28.5	2,023,368	91,987	0.0455	0.9545	75.40
29.5	1,899,342	20,057	0.0106	0.9894	71.97
30.5	1,673,011	1,487	0.0009	0.9991	71.21
31.5	1,890,357	17,581	0.0093	0.9907	71.15
32.5	1,638,660	345,791	0.2110	0.7890	70.49
33.5	1,371,903	4,679	0.0034	0.9966	55.61
34.5	1,314,429	8,236	0.0063	0.9937	55.42
35.5	1,337,749	1,489	0.0011	0.9989	55.08
36.5	1,323,053	16,175	0.0122	0.9878	55.01
37.5	1,126,983	145,329	0.1290	0.8710	54.34
38.5	1,281,052	5,458	0.0043	0.9957	47.33

PLACEMENT BAND 1901-2022

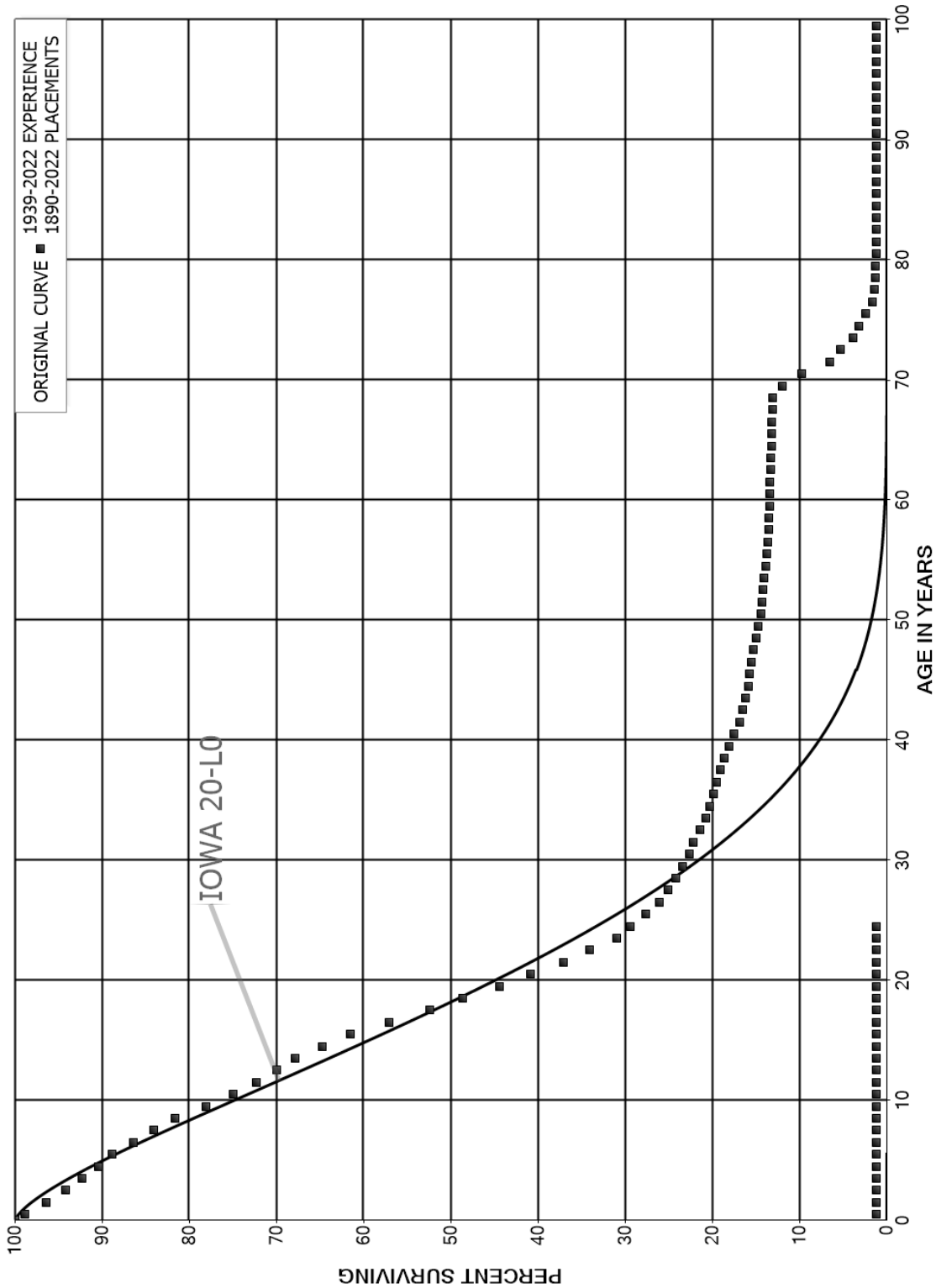
EXPERIENCE BAND 2003-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,112,431	38,329	0.0345	0.9655	47.13
40.5	901,661	3,725	0.0041	0.9959	45.51
41.5	1,060,662	7,963	0.0075	0.9925	45.32
42.5	1,060,319	137,742	0.1299	0.8701	44.98
43.5	919,046	2,337	0.0025	0.9975	39.14
44.5	904,236	1,297	0.0014	0.9986	39.04
45.5	880,669	5,159	0.0059	0.9941	38.98
46.5	994,970	54,972	0.0552	0.9448	38.75
47.5	985,281	7,610	0.0077	0.9923	36.61
48.5	546,597	4,636	0.0085	0.9915	36.33
49.5	613,948	81,988	0.1335	0.8665	36.02
50.5	579,755	43,026	0.0742	0.9258	31.21
51.5	359,352	1,256	0.0035	0.9965	28.89
52.5	356,608	179,646	0.5038	0.4962	28.79
53.5	178,906	5,036	0.0281	0.9719	14.29
54.5	193,567	48,264	0.2493	0.7507	13.89
55.5	145,346	392	0.0027	0.9973	10.42
56.5	145,550	6,625	0.0455	0.9545	10.40
57.5	138,934	1,975	0.0142	0.9858	9.92
58.5	137,109	20,661	0.1507	0.8493	9.78
59.5	114,607	123	0.0011	0.9989	8.31
60.5	114,995	458	0.0040	0.9960	8.30
61.5	114,603	10	0.0001	0.9999	8.27
62.5	114,593	49	0.0004	0.9996	8.26
63.5	114,443	2,081	0.0182	0.9818	8.26
64.5	119,699		0.0000	1.0000	8.11
65.5	114,328	180	0.0016	0.9984	8.11
66.5	80,685		0.0000	1.0000	8.10
67.5	79,934		0.0000	1.0000	8.10
68.5	79,962	19,014	0.2378	0.7622	8.10
69.5	8,200		0.0000	1.0000	6.17
70.5	8,456	13	0.0015	0.9985	6.17
71.5	8,610		0.0000	1.0000	6.16
72.5	4,969		0.0000	1.0000	6.16
73.5	1,328		0.0000	1.0000	6.16
74.5	4,668	470	0.1006	0.8994	6.16
75.5	3,893	166	0.0427	0.9573	5.54
76.5	4,021		0.0000	1.0000	5.31
77.5	4,021		0.0000	1.0000	5.31
78.5	3,737		0.0000	1.0000	5.31

PLACEMENT BAND 1901-2022

EXPERIENCE BAND 2003-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	3,737		0.0000	1.0000	5.31
80.5	3,481		0.0000	1.0000	5.31
81.5	3,497		0.0000	1.0000	5.31
82.5	3,539		0.0000	1.0000	5.31
83.5	3,570	4	0.0012	0.9988	5.31
84.5	394		0.0000	1.0000	5.30
85.5	394	17	0.0422	0.9578	5.30
86.5	72	72	1.0000		5.08
87.5					
88.5					
89.5					
90.5					
91.5					
92.5					
93.5					
94.5					
95.5					
96.5					
97.5					
98.5					
99.5					
100.5	484		0.0000		
101.5	559		0.0000		
102.5	559		0.0000		
103.5	559	55	0.0986		
104.5	504	429	0.8522		
105.5	74	74	1.0000		
106.5					



PLACEMENT BAND 1890-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	14,145,903	157,113	0.0111	0.9889	100.00
0.5	14,607,352	371,412	0.0254	0.9746	98.89
1.5	13,488,997	307,485	0.0228	0.9772	96.37
2.5	12,376,813	248,698	0.0201	0.9799	94.18
3.5	13,149,196	270,237	0.0206	0.9794	92.29
4.5	12,885,590	225,729	0.0175	0.9825	90.39
5.5	12,650,126	338,608	0.0268	0.9732	88.81
6.5	12,395,765	336,531	0.0271	0.9729	86.43
7.5	12,027,979	359,482	0.0299	0.9701	84.08
8.5	11,649,794	506,576	0.0435	0.9565	81.57
9.5	11,122,114	432,994	0.0389	0.9611	78.02
10.5	10,653,065	375,766	0.0353	0.9647	74.98
11.5	10,130,210	327,911	0.0324	0.9676	72.34
12.5	9,772,455	303,056	0.0310	0.9690	70.00
13.5	8,422,262	384,348	0.0456	0.9544	67.83
14.5	8,004,486	403,300	0.0504	0.9496	64.73
15.5	7,552,183	542,426	0.0718	0.9282	61.47
16.5	6,916,935	566,911	0.0820	0.9180	57.06
17.5	6,262,858	444,218	0.0709	0.9291	52.38
18.5	5,733,662	500,615	0.0873	0.9127	48.66
19.5	5,080,927	411,102	0.0809	0.9191	44.42
20.5	4,480,776	415,794	0.0928	0.9072	40.82
21.5	4,157,201	337,937	0.0813	0.9187	37.03
22.5	3,789,662	340,787	0.0899	0.9101	34.02
23.5	3,441,944	175,357	0.0509	0.9491	30.96
24.5	3,224,697	196,760	0.0610	0.9390	29.39
25.5	2,990,820	160,227	0.0536	0.9464	27.59
26.5	2,794,344	111,305	0.0398	0.9602	26.11
27.5	2,680,066	91,377	0.0341	0.9659	25.07
28.5	2,473,306	89,352	0.0361	0.9639	24.22
29.5	2,363,993	73,854	0.0312	0.9688	23.34
30.5	2,250,576	49,016	0.0218	0.9782	22.62
31.5	2,042,691	64,053	0.0314	0.9686	22.12
32.5	1,872,050	61,664	0.0329	0.9671	21.43
33.5	1,759,081	37,085	0.0211	0.9789	20.72
34.5	1,603,777	39,863	0.0249	0.9751	20.29
35.5	1,526,739	23,145	0.0152	0.9848	19.78
36.5	1,399,410	28,379	0.0203	0.9797	19.48
37.5	1,310,062	34,989	0.0267	0.9733	19.09
38.5	1,169,594	32,842	0.0281	0.9719	18.58

PLACEMENT BAND 1890-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,068,770	33,933	0.0317	0.9683	18.06
40.5	962,347	35,441	0.0368	0.9632	17.48
41.5	850,473	17,934	0.0211	0.9789	16.84
42.5	787,853	14,060	0.0178	0.9822	16.48
43.5	677,677	13,471	0.0199	0.9801	16.19
44.5	564,847	6,096	0.0108	0.9892	15.87
45.5	501,785	4,950	0.0099	0.9901	15.70
46.5	451,941	6,233	0.0138	0.9862	15.54
47.5	381,597	9,176	0.0240	0.9760	15.33
48.5	346,441	5,082	0.0147	0.9853	14.96
49.5	322,437	6,467	0.0201	0.9799	14.74
50.5	303,830	2,819	0.0093	0.9907	14.44
51.5	280,086	2,746	0.0098	0.9902	14.31
52.5	269,103	1,958	0.0073	0.9927	14.17
53.5	250,857	3,906	0.0156	0.9844	14.07
54.5	237,365	2,674	0.0113	0.9887	13.85
55.5	225,792	1,016	0.0045	0.9955	13.69
56.5	218,869	1,927	0.0088	0.9912	13.63
57.5	211,243	518	0.0025	0.9975	13.51
58.5	201,192	610	0.0030	0.9970	13.48
59.5	192,941	660	0.0034	0.9966	13.44
60.5	183,435	528	0.0029	0.9971	13.39
61.5	174,311	754	0.0043	0.9957	13.35
62.5	166,718	394	0.0024	0.9976	13.29
63.5	161,798	537	0.0033	0.9967	13.26
64.5	153,285	604	0.0039	0.9961	13.22
65.5	145,326	291	0.0020	0.9980	13.17
66.5	137,529	484	0.0035	0.9965	13.14
67.5	133,968	769	0.0057	0.9943	13.09
68.5	121,869	9,661	0.0793	0.9207	13.02
69.5	102,405	19,179	0.1873	0.8127	11.99
70.5	79,629	26,903	0.3379	0.6621	9.74
71.5	51,986	9,777	0.1881	0.8119	6.45
72.5	41,532	11,258	0.2711	0.7289	5.24
73.5	28,135	5,102	0.1814	0.8186	3.82
74.5	21,686	5,266	0.2428	0.7572	3.13
75.5	15,574	4,665	0.2995	0.7005	2.37
76.5	9,780	1,340	0.1370	0.8630	1.66
77.5	7,505	525	0.0700	0.9300	1.43
78.5	7,109	29	0.0041	0.9959	1.33

PLACEMENT BAND 1890-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	6,680	718	0.1075	0.8925	1.32
80.5	4,595	1	0.0001	0.9999	1.18
81.5	4,019	3	0.0009	0.9991	1.18
82.5	3,287		0.0000	1.0000	1.18
83.5	3,039	2	0.0008	0.9992	1.18
84.5	2,689	23	0.0084	0.9916	1.18
85.5	2,274		0.0000	1.0000	1.17
86.5	2,058	1	0.0007	0.9993	1.17
87.5	1,959		0.0000	1.0000	1.17
88.5	1,187		0.0000	1.0000	1.17
89.5	1,212		0.0000	1.0000	1.17
90.5	1,178		0.0000	1.0000	1.17
91.5	1,098		0.0000	1.0000	1.17
92.5	1,069		0.0000	1.0000	1.17
93.5	849		0.0000	1.0000	1.17
94.5	784		0.0000	1.0000	1.17
95.5	687		0.0000	1.0000	1.17
96.5	127		0.0000	1.0000	1.17
97.5	152		0.0000	1.0000	1.17
98.5	108		0.0000	1.0000	1.17
99.5	101		0.0000	1.0000	1.17
100.5	101		0.0000	1.0000	1.17
101.5	82		0.0000	1.0000	1.17
102.5	72		0.0000	1.0000	1.17
103.5	72		0.0000	1.0000	1.17
104.5	64		0.0000	1.0000	1.17
105.5	64		0.0000	1.0000	1.17
106.5	64		0.0000	1.0000	1.17
107.5	64		0.0000	1.0000	1.17
108.5	64		0.0000	1.0000	1.17
109.5	64		0.0000	1.0000	1.17
110.5	64		0.0000	1.0000	1.17
111.5	64		0.0000	1.0000	1.17
112.5	64		0.0000	1.0000	1.17
113.5	64		0.0000	1.0000	1.17
114.5	64		0.0000	1.0000	1.17
115.5	64		0.0000	1.0000	1.17
116.5	64		0.0000	1.0000	1.17
117.5	64		0.0000	1.0000	1.17
118.5	64		0.0000	1.0000	1.17

PLACEMENT BAND 1890-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL

119.5	64
120.5	64
121.5	64
122.5	64
123.5	64
124.5	

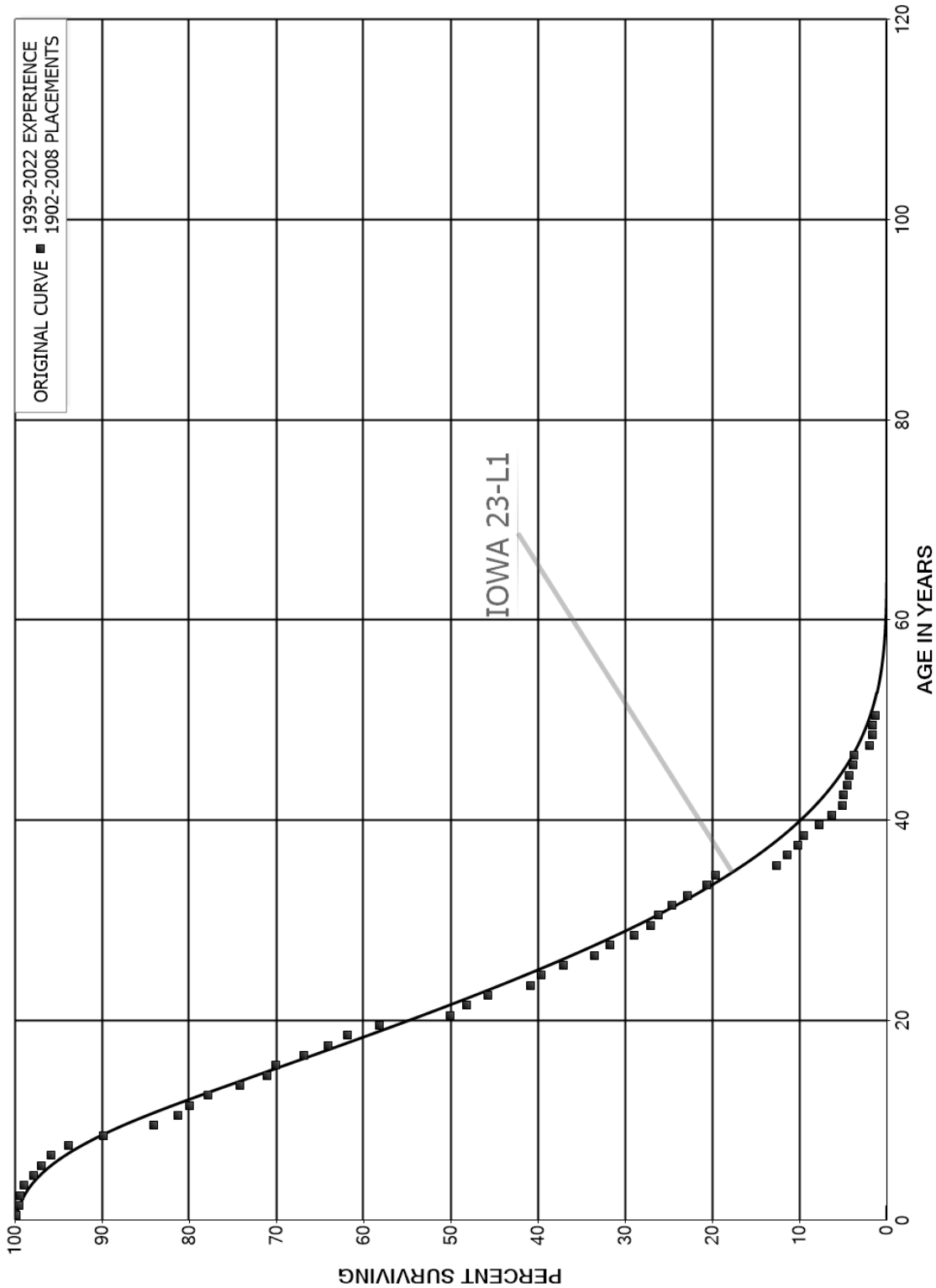
RETIREMENTS DURING AGE INTERVAL

RETMT RATIO

SURV RATIO

PCT SURV BEGIN OF INTERVAL

0.0000	1.0000	1.17
0.0000	1.0000	1.17
0.0000	1.0000	1.17
0.0000	1.0000	1.17
0.0000	1.0000	1.17
		1.17



PLACEMENT BAND 1902-2008

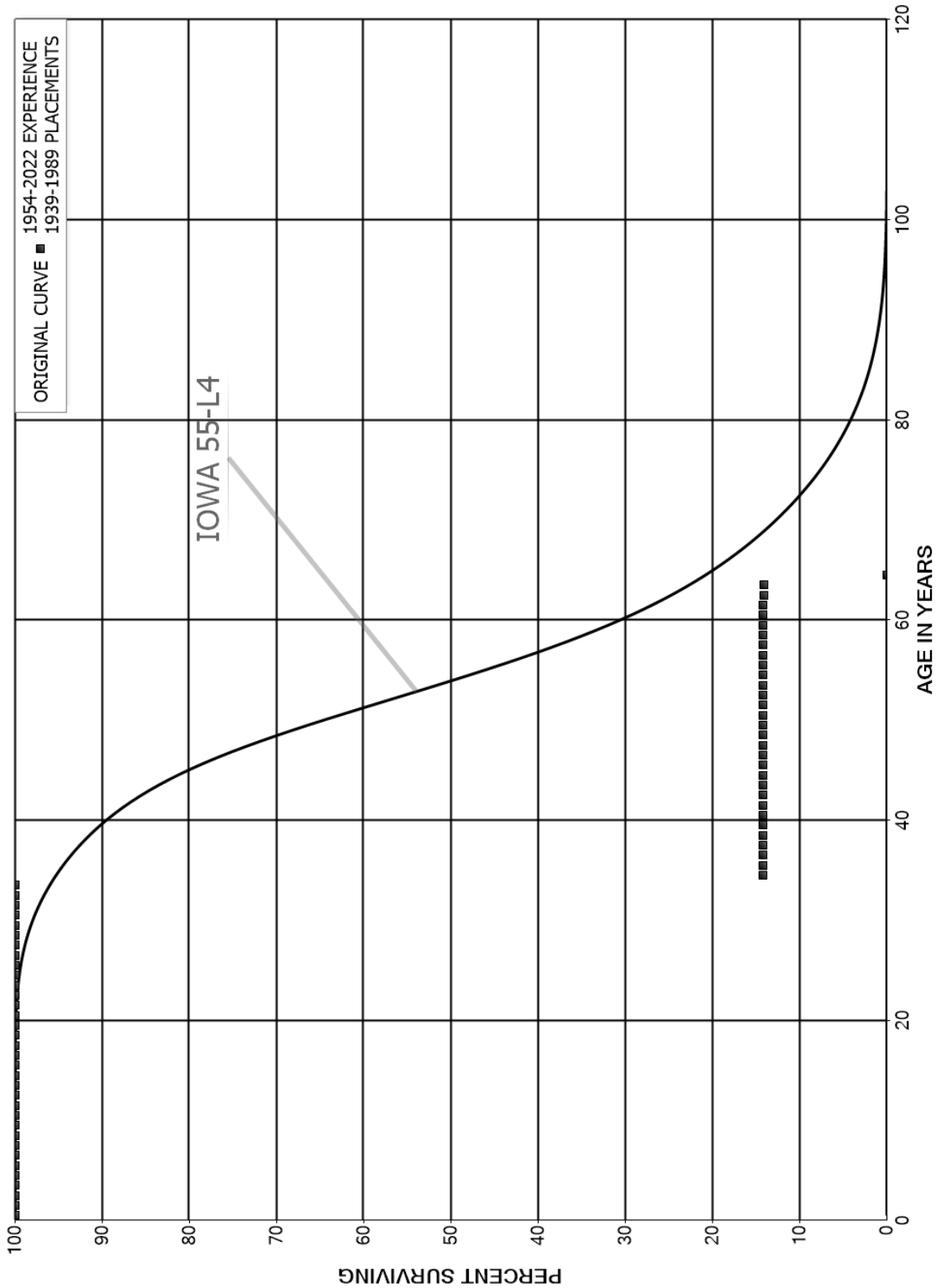
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	858,875	1,171	0.0014	0.9986	100.00
0.5	843,576	2,834	0.0034	0.9966	99.86
1.5	811,965	932	0.0011	0.9989	99.53
2.5	802,488	4,141	0.0052	0.9948	99.41
3.5	772,760	8,415	0.0109	0.9891	98.90
4.5	751,544	7,050	0.0094	0.9906	97.82
5.5	699,009	7,570	0.0108	0.9892	96.91
6.5	676,371	13,973	0.0207	0.9793	95.86
7.5	643,328	27,466	0.0427	0.9573	93.88
8.5	607,789	39,061	0.0643	0.9357	89.87
9.5	555,918	18,432	0.0332	0.9668	84.09
10.5	510,753	8,584	0.0168	0.9832	81.30
11.5	498,130	13,359	0.0268	0.9732	79.94
12.5	479,805	22,295	0.0465	0.9535	77.79
13.5	451,362	19,016	0.0421	0.9579	74.18
14.5	409,424	5,470	0.0134	0.9866	71.05
15.5	406,619	18,931	0.0466	0.9534	70.11
16.5	370,952	15,562	0.0420	0.9580	66.84
17.5	329,642	11,151	0.0338	0.9662	64.04
18.5	301,414	18,020	0.0598	0.9402	61.87
19.5	286,833	39,718	0.1385	0.8615	58.17
20.5	251,542	9,606	0.0382	0.9618	50.12
21.5	243,886	12,518	0.0513	0.9487	48.20
22.5	228,483	24,669	0.1080	0.8920	45.73
23.5	201,779	5,551	0.0275	0.9725	40.79
24.5	171,837	11,074	0.0644	0.9356	39.67
25.5	158,019	15,418	0.0976	0.9024	37.11
26.5	143,109	7,554	0.0528	0.9472	33.49
27.5	135,495	11,610	0.0857	0.9143	31.72
28.5	123,782	8,276	0.0669	0.9331	29.01
29.5	116,392	3,894	0.0335	0.9665	27.07
30.5	111,676	6,585	0.0590	0.9410	26.16
31.5	105,134	7,715	0.0734	0.9266	24.62
32.5	97,677	9,610	0.0984	0.9016	22.81
33.5	88,016	4,183	0.0475	0.9525	20.57
34.5	83,968	30,004	0.3573	0.6427	19.59
35.5	53,965	5,283	0.0979	0.9021	12.59
36.5	48,369	4,805	0.0993	0.9007	11.36
37.5	43,466	2,924	0.0673	0.9327	10.23
38.5	40,376	7,602	0.1883	0.8117	9.54

PLACEMENT BAND 1902-2008

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	32,677	6,339	0.1940	0.8060	7.74
40.5	26,189	4,872	0.1860	0.8140	6.24
41.5	22,243	559	0.0251	0.9749	5.08
42.5	21,332	2,143	0.1004	0.8996	4.95
43.5	18,893	560	0.0296	0.9704	4.46
44.5	18,459	2,231	0.1208	0.8792	4.32
45.5	16,229	134	0.0083	0.9917	3.80
46.5	16,036	7,963	0.4966	0.5034	3.77
47.5	8,073	1,092	0.1353	0.8647	1.90
48.5	6,980	293	0.0420	0.9580	1.64
49.5	6,519	1,285	0.1972	0.8028	1.57
50.5	5,215	925	0.1775	0.8225	1.26
51.5	4,289	281	0.0655	0.9345	1.04
52.5	4,008	684	0.1706	0.8294	0.97
53.5	3,324	439	0.1322	0.8678	0.80
54.5	2,885		0.0000	1.0000	0.70
55.5	2,885	278	0.0963	0.9037	0.70
56.5	2,607	193	0.0742	0.9258	0.63
57.5	2,414		0.0000	1.0000	0.58
58.5	2,414	49	0.0202	0.9798	0.58
59.5	2,365		0.0000	1.0000	0.57
60.5	2,365	49	0.0206	0.9794	0.57
61.5	2,316	77	0.0334	0.9666	0.56
62.5	2,239	29	0.0130	0.9870	0.54
63.5	2,210	46	0.0210	0.9790	0.53
64.5	2,163		0.0000	1.0000	0.52
65.5	2,163		0.0000	1.0000	0.52
66.5	2,163		0.0000	1.0000	0.52
67.5					0.52



PLACEMENT BAND 1939-1989

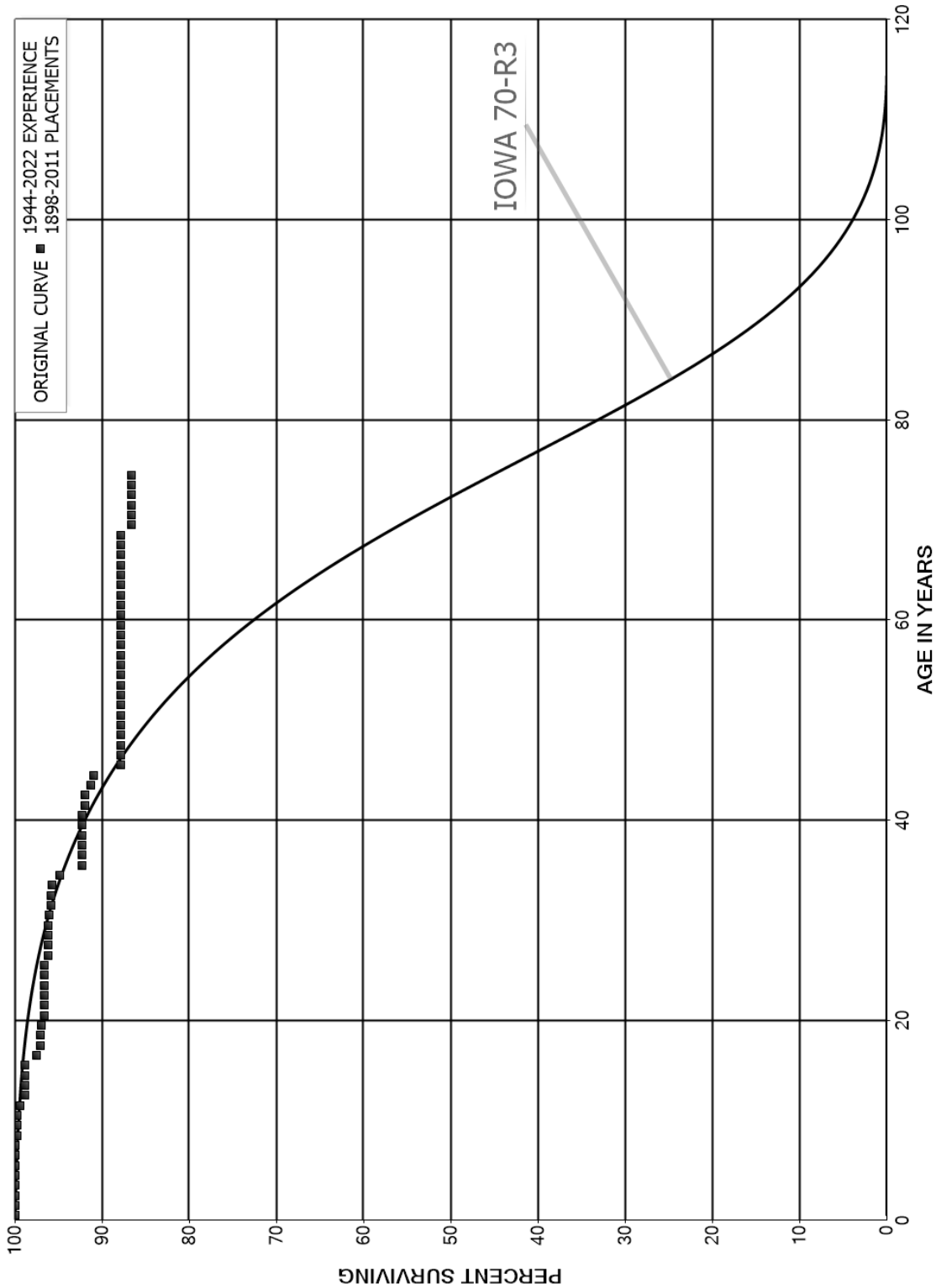
EXPERIENCE BAND 1954-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	13,098		0.0000	1.0000	100.00
0.5	13,098		0.0000	1.0000	100.00
1.5	13,098		0.0000	1.0000	100.00
2.5	13,125		0.0000	1.0000	100.00
3.5	13,193		0.0000	1.0000	100.00
4.5	24,522		0.0000	1.0000	100.00
5.5	46,790		0.0000	1.0000	100.00
6.5	43,197		0.0000	1.0000	100.00
7.5	43,197		0.0000	1.0000	100.00
8.5	43,172		0.0000	1.0000	100.00
9.5	43,172		0.0000	1.0000	100.00
10.5	43,172		0.0000	1.0000	100.00
11.5	43,172		0.0000	1.0000	100.00
12.5	43,598		0.0000	1.0000	100.00
13.5	43,598		0.0000	1.0000	100.00
14.5	43,571		0.0000	1.0000	100.00
15.5	39,516		0.0000	1.0000	100.00
16.5	39,497		0.0000	1.0000	100.00
17.5	39,497		0.0000	1.0000	100.00
18.5	39,497		0.0000	1.0000	100.00
19.5	39,497		0.0000	1.0000	100.00
20.5	39,497		0.0000	1.0000	100.00
21.5	39,497		0.0000	1.0000	100.00
22.5	39,497		0.0000	1.0000	100.00
23.5	39,116		0.0000	1.0000	100.00
24.5	39,116		0.0000	1.0000	100.00
25.5	39,116		0.0000	1.0000	100.00
26.5	39,116		0.0000	1.0000	100.00
27.5	39,116		0.0000	1.0000	100.00
28.5	39,116		0.0000	1.0000	100.00
29.5	39,116		0.0000	1.0000	100.00
30.5	39,116		0.0000	1.0000	100.00
31.5	39,116		0.0000	1.0000	100.00
32.5	39,116		0.0000	1.0000	100.00
33.5	26,032	22,334	0.8579	0.1421	100.00
34.5	3,698		0.0000	1.0000	14.21
35.5	3,698		0.0000	1.0000	14.21
36.5	3,698		0.0000	1.0000	14.21
37.5	3,698		0.0000	1.0000	14.21
38.5	3,698	1	0.0003	0.9997	14.21

PLACEMENT BAND 1939-1989

EXPERIENCE BAND 1954-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	3,697		0.0000	1.0000	14.20
40.5	3,697		0.0000	1.0000	14.20
41.5	3,697		0.0000	1.0000	14.20
42.5	3,697		0.0000	1.0000	14.20
43.5	3,697		0.0000	1.0000	14.20
44.5	3,697		0.0000	1.0000	14.20
45.5	3,697		0.0000	1.0000	14.20
46.5	3,697		0.0000	1.0000	14.20
47.5	3,697	3	0.0007	0.9993	14.20
48.5	3,694		0.0000	1.0000	14.19
49.5	3,694		0.0000	1.0000	14.19
50.5	3,694	3	0.0007	0.9993	14.19
51.5	3,692		0.0000	1.0000	14.18
52.5	3,692		0.0000	1.0000	14.18
53.5	3,692		0.0000	1.0000	14.18
54.5	3,692		0.0000	1.0000	14.18
55.5	3,692		0.0000	1.0000	14.18
56.5	3,692		0.0000	1.0000	14.18
57.5	3,692		0.0000	1.0000	14.18
58.5	3,692	8	0.0023	0.9977	14.18
59.5	3,683		0.0000	1.0000	14.15
60.5	3,683		0.0000	1.0000	14.15
61.5	3,683	28	0.0075	0.9925	14.15
62.5	3,656		0.0000	1.0000	14.04
63.5	3,656	3,656	1.0000		14.04
64.5					



PLACEMENT BAND 1898-2011

EXPERIENCE BAND 1944-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	153,614		0.0000	1.0000	100.00
0.5	155,003		0.0000	1.0000	100.00
1.5	156,966	143	0.0009	0.9991	100.00
2.5	142,407		0.0000	1.0000	99.91
3.5	142,944		0.0000	1.0000	99.91
4.5	143,326		0.0000	1.0000	99.91
5.5	143,413		0.0000	1.0000	99.91
6.5	143,413		0.0000	1.0000	99.91
7.5	139,940	201	0.0014	0.9986	99.91
8.5	138,699		0.0000	1.0000	99.76
9.5	127,582	43	0.0003	0.9997	99.76
10.5	73,073	236	0.0032	0.9968	99.73
11.5	72,837	453	0.0062	0.9938	99.41
12.5	73,840		0.0000	1.0000	98.79
13.5	73,346		0.0000	1.0000	98.79
14.5	73,410		0.0000	1.0000	98.79
15.5	73,522	972	0.0132	0.9868	98.79
16.5	53,273	228	0.0043	0.9957	97.48
17.5	53,574		0.0000	1.0000	97.07
18.5	37,274	52	0.0014	0.9986	97.07
19.5	38,582	138	0.0036	0.9964	96.93
20.5	41,021		0.0000	1.0000	96.59
21.5	41,473		0.0000	1.0000	96.59
22.5	39,662		0.0000	1.0000	96.59
23.5	40,213		0.0000	1.0000	96.59
24.5	40,147		0.0000	1.0000	96.59
25.5	39,407	177	0.0045	0.9955	96.59
26.5	46,275	4	0.0001	0.9999	96.15
27.5	48,594		0.0000	1.0000	96.14
28.5	51,054		0.0000	1.0000	96.14
29.5	50,666	56	0.0011	0.9989	96.14
30.5	50,610	94	0.0019	0.9981	96.04
31.5	50,207		0.0000	1.0000	95.86
32.5	50,530	70	0.0014	0.9986	95.86
33.5	50,460	443	0.0088	0.9912	95.73
34.5	42,184	1,155	0.0274	0.9726	94.89
35.5	40,588		0.0000	1.0000	92.29
36.5	40,179		0.0000	1.0000	92.29
37.5	36,236		0.0000	1.0000	92.29
38.5	36,363		0.0000	1.0000	92.29

PLACEMENT BAND 1898-2011

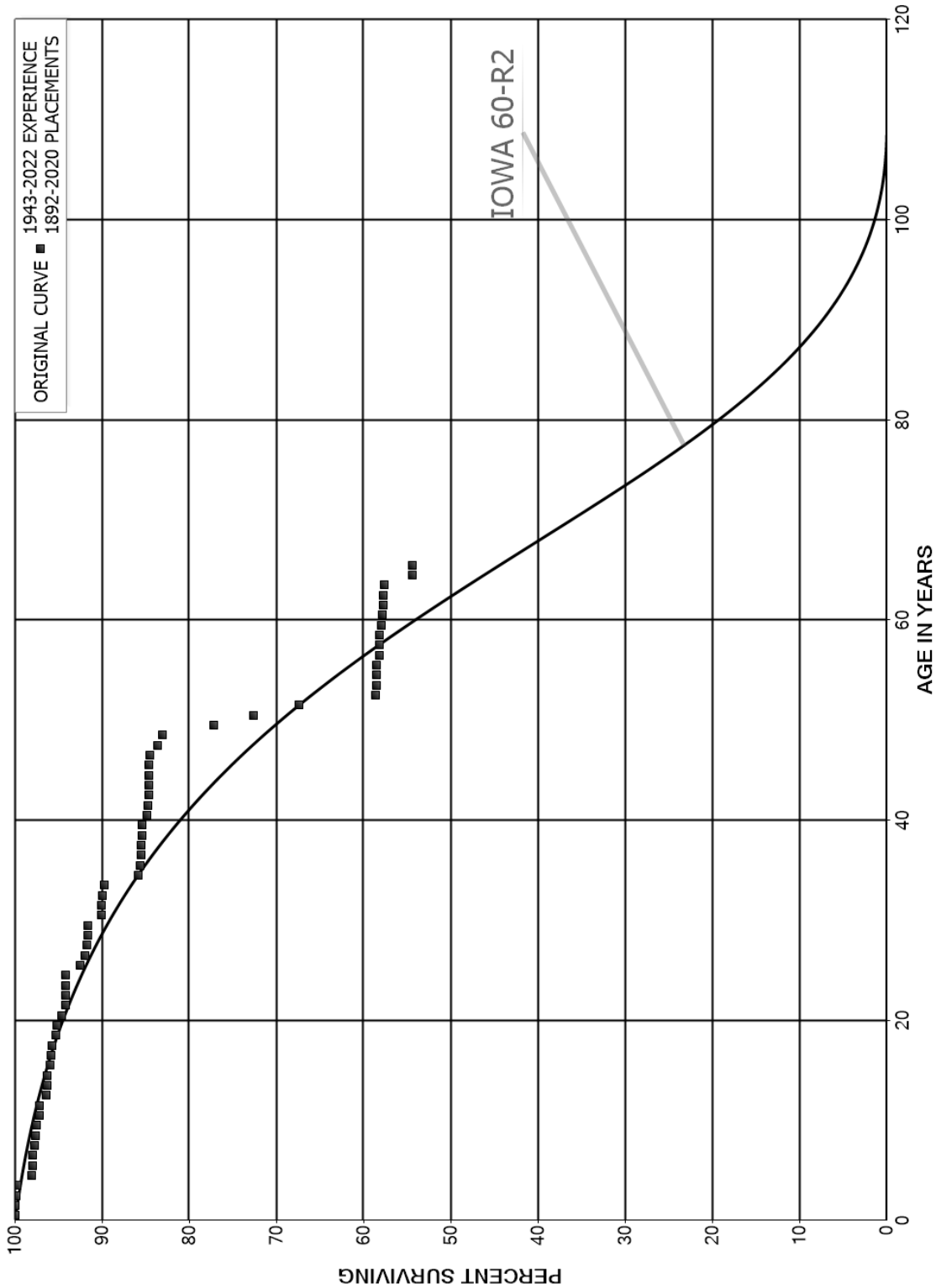
EXPERIENCE BAND 1944-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	34,853		0.0000	1.0000	92.29
40.5	35,290	140	0.0040	0.9960	92.29
41.5	37,268		0.0000	1.0000	91.92
42.5	37,259	243	0.0065	0.9935	91.92
43.5	35,797	125	0.0035	0.9965	91.33
44.5	34,323	1,209	0.0352	0.9648	91.01
45.5	32,767		0.0000	1.0000	87.80
46.5	32,876		0.0000	1.0000	87.80
47.5	34,092		0.0000	1.0000	87.80
48.5	33,655		0.0000	1.0000	87.80
49.5	32,496		0.0000	1.0000	87.80
50.5	31,821		0.0000	1.0000	87.80
51.5	29,527		0.0000	1.0000	87.80
52.5	27,465		0.0000	1.0000	87.80
53.5	25,888		0.0000	1.0000	87.80
54.5	23,577		0.0000	1.0000	87.80
55.5	23,408		0.0000	1.0000	87.80
56.5	21,069		0.0000	1.0000	87.80
57.5	20,413		0.0000	1.0000	87.80
58.5	19,102		0.0000	1.0000	87.80
59.5	18,714		0.0000	1.0000	87.80
60.5	18,109		0.0000	1.0000	87.80
61.5	17,219		0.0000	1.0000	87.80
62.5	17,243		0.0000	1.0000	87.80
63.5	17,318		0.0000	1.0000	87.80
64.5	15,752		0.0000	1.0000	87.80
65.5	13,940		0.0000	1.0000	87.80
66.5	13,879		0.0000	1.0000	87.80
67.5	13,442		0.0000	1.0000	87.80
68.5	11,300	159	0.0140	0.9860	87.80
69.5	10,904		0.0000	1.0000	86.57
70.5	10,851		0.0000	1.0000	86.57
71.5	10,726		0.0000	1.0000	86.57
72.5	10,726		0.0000	1.0000	86.57
73.5	9,486		0.0000	1.0000	86.57
74.5	7,927		0.0000	1.0000	86.57
75.5	6,476		0.0000	1.0000	86.57
76.5	5,918		0.0000	1.0000	86.57
77.5	5,851		0.0000	1.0000	86.57
78.5	5,851		0.0000	1.0000	86.57

PLACEMENT BAND 1898-2011

EXPERIENCE BAND 1944-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	5,685		0.0000	1.0000	86.57
80.5	5,242		0.0000	1.0000	86.57
81.5	5,168		0.0000	1.0000	86.57
82.5	4,970		0.0000	1.0000	86.57
83.5	4,936		0.0000	1.0000	86.57
84.5	4,936		0.0000	1.0000	86.57
85.5	4,936		0.0000	1.0000	86.57
86.5	4,936		0.0000	1.0000	86.57
87.5	4,936		0.0000	1.0000	86.57
88.5	4,936		0.0000	1.0000	86.57
89.5	4,408		0.0000	1.0000	86.57
90.5	1,704		0.0000	1.0000	86.57
91.5	1,704		0.0000	1.0000	86.57
92.5	1,704		0.0000	1.0000	86.57
93.5	1,640		0.0000	1.0000	86.57
94.5	1,640		0.0000	1.0000	86.57
95.5	1,640		0.0000	1.0000	86.57
96.5	1,181		0.0000	1.0000	86.57
97.5	923		0.0000	1.0000	86.57
98.5	923		0.0000	1.0000	86.57
99.5	923		0.0000	1.0000	86.57
100.5	923		0.0000	1.0000	86.57
101.5	923		0.0000	1.0000	86.57
102.5	923		0.0000	1.0000	86.57
103.5	923		0.0000	1.0000	86.57
104.5	923		0.0000	1.0000	86.57
105.5	923		0.0000	1.0000	86.57
106.5					86.57



PLACEMENT BAND 1892-2020

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	7,204,965	4,983	0.0007	0.9993	100.00
0.5	7,176,404	875	0.0001	0.9999	99.93
1.5	7,196,512	5,047	0.0007	0.9993	99.92
2.5	5,651,815	5,247	0.0009	0.9991	99.85
3.5	5,630,340	96,214	0.0171	0.9829	99.76
4.5	5,544,060	3,522	0.0006	0.9994	98.05
5.5	5,511,014	4,040	0.0007	0.9993	97.99
6.5	5,466,965	13,006	0.0024	0.9976	97.92
7.5	5,442,398	5,539	0.0010	0.9990	97.68
8.5	5,349,003	6,282	0.0012	0.9988	97.58
9.5	4,888,683	16,206	0.0033	0.9967	97.47
10.5	4,828,605	755	0.0002	0.9998	97.15
11.5	4,828,750	34,392	0.0071	0.9929	97.13
12.5	4,787,600	5,151	0.0011	0.9989	96.44
13.5	4,698,597	981	0.0002	0.9998	96.34
14.5	4,425,060	17,038	0.0039	0.9961	96.32
15.5	4,311,798	3,425	0.0008	0.9992	95.95
16.5	4,136,951	5,703	0.0014	0.9986	95.87
17.5	4,131,375	20,460	0.0050	0.9950	95.74
18.5	3,729,639	1,823	0.0005	0.9995	95.26
19.5	3,121,441	18,926	0.0061	0.9939	95.22
20.5	3,036,504	14,775	0.0049	0.9951	94.64
21.5	2,970,189	178	0.0001	0.9999	94.18
22.5	2,805,366	157	0.0001	0.9999	94.17
23.5	2,780,361		0.0000	1.0000	94.17
24.5	2,181,829	39,744	0.0182	0.9818	94.17
25.5	2,106,834	11,047	0.0052	0.9948	92.45
26.5	2,019,987	5,641	0.0028	0.9972	91.97
27.5	2,027,687	1,785	0.0009	0.9991	91.71
28.5	1,997,259	709	0.0004	0.9996	91.63
29.5	1,956,815	32,995	0.0169	0.9831	91.60
30.5	1,880,247	144	0.0001	0.9999	90.05
31.5	1,879,680	2,742	0.0015	0.9985	90.05
32.5	1,819,833	4,366	0.0024	0.9976	89.91
33.5	1,772,075	76,955	0.0434	0.9566	89.70
34.5	1,695,731	4,446	0.0026	0.9974	85.80
35.5	1,693,528	754	0.0004	0.9996	85.58
36.5	1,638,568	459	0.0003	0.9997	85.54
37.5	1,701,601	2,325	0.0014	0.9986	85.52
38.5	1,632,462		0.0000	1.0000	85.40

PLACEMENT BAND 1892-2020

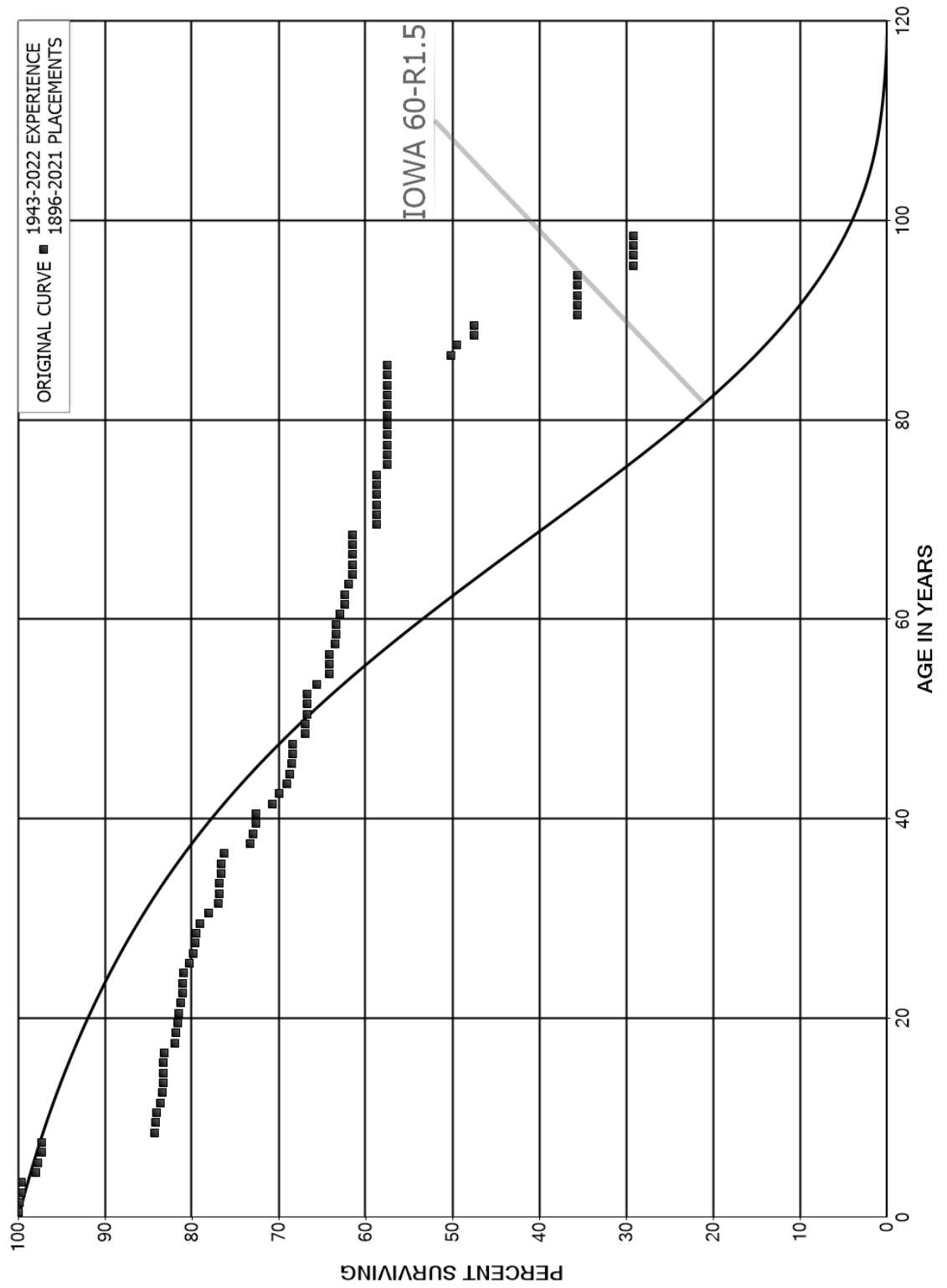
EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,638,572	11,306	0.0069	0.9931	85.40
40.5	1,609,161	1,517	0.0009	0.9991	84.81
41.5	1,626,722	1,424	0.0009	0.9991	84.73
42.5	928,352		0.0000	1.0000	84.66
43.5	705,605	658	0.0009	0.9991	84.66
44.5	699,265		0.0000	1.0000	84.58
45.5	698,402	921	0.0013	0.9987	84.58
46.5	697,618	7,152	0.0103	0.9897	84.47
47.5	684,127	4,609	0.0067	0.9933	83.60
48.5	644,768	45,826	0.0711	0.9289	83.04
49.5	594,343	35,250	0.0593	0.9407	77.13
50.5	525,749	37,680	0.0717	0.9283	72.56
51.5	487,518	63,356	0.1300	0.8700	67.36
52.5	423,625	400	0.0009	0.9991	58.61
53.5	420,009	5	0.0000	1.0000	58.55
54.5	418,208	114	0.0003	0.9997	58.55
55.5	415,223	2,255	0.0054	0.9946	58.53
56.5	411,845	218	0.0005	0.9995	58.22
57.5	409,681	37	0.0001	0.9999	58.19
58.5	411,255	1,736	0.0042	0.9958	58.18
59.5	423,177	392	0.0009	0.9991	57.93
60.5	421,299	1,057	0.0025	0.9975	57.88
61.5	415,380	213	0.0005	0.9995	57.74
62.5	414,751	716	0.0017	0.9983	57.71
63.5	365,122	20,591	0.0564	0.9436	57.61
64.5	341,538		0.0000	1.0000	54.36
65.5	55,399		0.0000	1.0000	54.36
66.5	51,616		0.0000	1.0000	54.36
67.5	32,232		0.0000	1.0000	54.36
68.5	32,232	165	0.0051	0.9949	54.36
69.5	29,166		0.0000	1.0000	54.08
70.5	57,261		0.0000	1.0000	54.08
71.5	52,702		0.0000	1.0000	54.08
72.5	47,465		0.0000	1.0000	54.08
73.5	45,921		0.0000	1.0000	54.08
74.5	48,751		0.0000	1.0000	54.08
75.5	47,548		0.0000	1.0000	54.08
76.5	47,490		0.0000	1.0000	54.08
77.5	47,064		0.0000	1.0000	54.08
78.5	47,064		0.0000	1.0000	54.08

PLACEMENT BAND 1892-2020

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	47,064	8	0.0000	1.0000	54.08
80.5	47,064		0.0002	0.9998	54.08
81.5	47,055		0.0000	1.0000	54.07
82.5	46,655		0.0000	1.0000	54.07
83.5	46,655		0.0000	1.0000	54.07
84.5	46,560		0.0000	1.0000	54.07
85.5	30,371		0.0000	1.0000	54.07
86.5	30,371		0.0000	1.0000	54.07
87.5	30,371		0.0000	1.0000	54.07
88.5	30,371		0.0000	1.0000	54.07
89.5	30,371		0.0000	1.0000	54.07
90.5	30,371		0.0000	1.0000	54.07
91.5	30,371		0.0000	1.0000	54.07
92.5	30,371		0.0000	1.0000	54.07
93.5	30,371		0.0000	1.0000	54.07
94.5	30,371		0.0000	1.0000	54.07
95.5	30,371		0.0000	1.0000	54.07
96.5	2,829		0.0000	1.0000	54.07
97.5	2,829		0.0000	1.0000	54.07
98.5	2,829		0.0000	1.0000	54.07
99.5	2,829		0.0000	1.0000	54.07
100.5					54.07



PLACEMENT BAND 1896-2021

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	17,816,717		0.0000	1.0000	100.00
0.5	17,865,609	35,551	0.0020	0.9980	100.00
1.5	17,783,297	23,661	0.0013	0.9987	99.80
2.5	10,656,904	686	0.0001	0.9999	99.67
3.5	10,195,016	178,458	0.0175	0.9825	99.66
4.5	9,938,275	22,998	0.0023	0.9977	97.92
5.5	9,913,734	37,591	0.0038	0.9962	97.69
6.5	9,923,297	1,988	0.0002	0.9998	97.32
7.5	8,916,965	1,197,446	0.1343	0.8657	97.30
8.5	7,242,248	9,040	0.0012	0.9988	84.23
9.5	7,132,932	4,408	0.0006	0.9994	84.13
10.5	7,292,621	40,159	0.0055	0.9945	84.08
11.5	7,209,911	21,395	0.0030	0.9970	83.61
12.5	7,200,197	5,298	0.0007	0.9993	83.37
13.5	7,200,252	2,305	0.0003	0.9997	83.30
14.5	6,801,558	119	0.0000	1.0000	83.28
15.5	6,719,169	5,980	0.0009	0.9991	83.28
16.5	5,806,846	91,234	0.0157	0.9843	83.20
17.5	5,671,238	6,176	0.0011	0.9989	81.90
18.5	5,280,066	15,444	0.0029	0.9971	81.81
19.5	4,599,571	3,085	0.0007	0.9993	81.57
20.5	3,695,938	11,844	0.0032	0.9968	81.51
21.5	3,580,002	7,293	0.0020	0.9980	81.25
22.5	3,284,475	46	0.0000	1.0000	81.09
23.5	3,318,264	7,595	0.0023	0.9977	81.08
24.5	2,821,262	19,724	0.0070	0.9930	80.90
25.5	2,512,962	15,095	0.0060	0.9940	80.33
26.5	2,469,768	8,235	0.0033	0.9967	79.85
27.5	2,522,876	2,934	0.0012	0.9988	79.58
28.5	2,529,268	14,672	0.0058	0.9942	79.49
29.5	2,522,481	30,108	0.0119	0.9881	79.03
30.5	2,464,110	36,418	0.0148	0.9852	78.09
31.5	2,197,468	1,678	0.0008	0.9992	76.93
32.5	2,137,341	1,387	0.0006	0.9994	76.87
33.5	2,055,162	4,982	0.0024	0.9976	76.82
34.5	1,765,165	62	0.0000	1.0000	76.64
35.5	1,771,182	7,170	0.0040	0.9960	76.64
36.5	1,765,422	70,912	0.0402	0.9598	76.33
37.5	1,694,243	6,135	0.0036	0.9964	73.26
38.5	1,615,226	7,758	0.0048	0.9952	72.99

PLACEMENT BAND 1896-2021

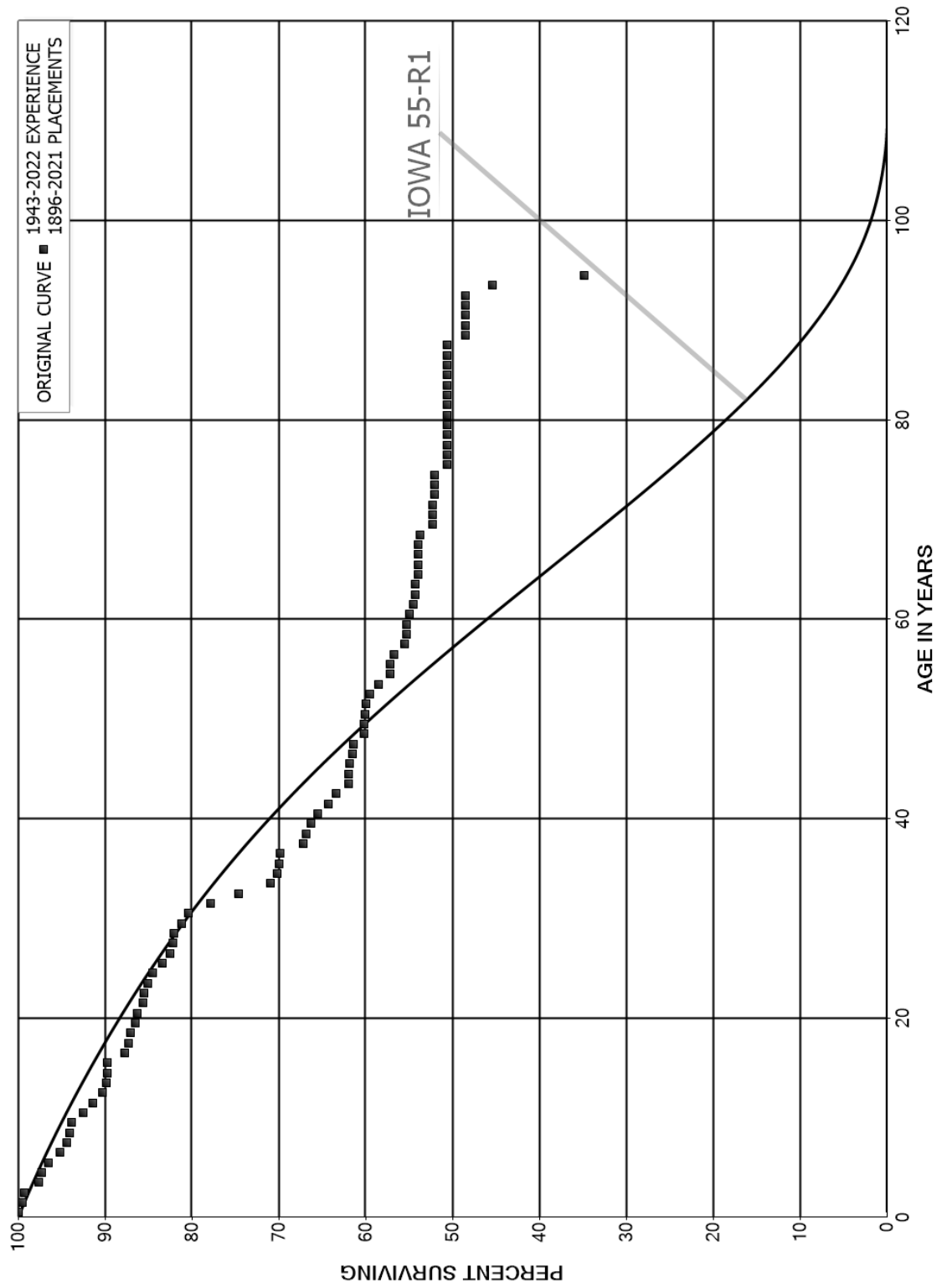
EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,461,825	1,162	0.0008	0.9992	72.64
40.5	1,457,421	38,448	0.0264	0.9736	72.59
41.5	1,366,255	14,305	0.0105	0.9895	70.67
42.5	1,139,095	14,949	0.0131	0.9869	69.93
43.5	1,126,135	5,411	0.0048	0.9952	69.01
44.5	1,120,766	3,619	0.0032	0.9968	68.68
45.5	1,029,879	1,065	0.0010	0.9990	68.46
46.5	893,525	66	0.0001	0.9999	68.39
47.5	747,449	15,691	0.0210	0.9790	68.38
48.5	561,756		0.0000	1.0000	66.95
49.5	532,578	2,111	0.0040	0.9960	66.95
50.5	493,144		0.0000	1.0000	66.68
51.5	490,914		0.0000	1.0000	66.68
52.5	489,577	8,193	0.0167	0.9833	66.68
53.5	490,866	10,402	0.0212	0.9788	65.57
54.5	479,977	88	0.0002	0.9998	64.18
55.5	482,954	88	0.0002	0.9998	64.17
56.5	469,578	5,121	0.0109	0.9891	64.15
57.5	443,613	115	0.0003	0.9997	63.46
58.5	456,914	38	0.0001	0.9999	63.44
59.5	458,315	3,684	0.0080	0.9920	63.43
60.5	453,965	3,453	0.0076	0.9924	62.92
61.5	436,091	592	0.0014	0.9986	62.44
62.5	435,500	2,816	0.0065	0.9935	62.36
63.5	385,784	2,961	0.0077	0.9923	61.96
64.5	268,635		0.0000	1.0000	61.48
65.5	253,787		0.0000	1.0000	61.48
66.5	235,276		0.0000	1.0000	61.48
67.5	243,579	55	0.0002	0.9998	61.48
68.5	243,520	10,820	0.0444	0.9556	61.47
69.5	234,878		0.0000	1.0000	58.74
70.5	234,000		0.0000	1.0000	58.74
71.5	216,809		0.0000	1.0000	58.74
72.5	195,747		0.0000	1.0000	58.74
73.5	186,277		0.0000	1.0000	58.74
74.5	153,563	3,137	0.0204	0.9796	58.74
75.5	115,415		0.0000	1.0000	57.54
76.5	97,934		0.0000	1.0000	57.54
77.5	89,778		0.0000	1.0000	57.54
78.5	87,671		0.0000	1.0000	57.54

PLACEMENT BAND 1896-2021

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	79,150		0.0000	1.0000	57.54
80.5	71,389		0.0000	1.0000	57.54
81.5	68,274		0.0000	1.0000	57.54
82.5	64,349		0.0000	1.0000	57.54
83.5	63,366		0.0000	1.0000	57.54
84.5	63,366		0.0000	1.0000	57.54
85.5	63,366	8,061	0.1272	0.8728	57.54
86.5	49,642	757	0.0153	0.9847	50.22
87.5	48,885	1,880	0.0385	0.9615	49.45
88.5	47,005		0.0000	1.0000	47.55
89.5	47,005	11,826	0.2516	0.7484	47.55
90.5	35,179		0.0000	1.0000	35.59
91.5	35,179		0.0000	1.0000	35.59
92.5	35,179		0.0000	1.0000	35.59
93.5	31,511		0.0000	1.0000	35.59
94.5	28,549	5,127	0.1796	0.8204	35.59
95.5	23,225		0.0000	1.0000	29.20
96.5	18,189		0.0000	1.0000	29.20
97.5	10,731		0.0000	1.0000	29.20
98.5	2,544		0.0000	1.0000	29.20
99.5	2,544		0.0000	1.0000	29.20
100.5	2,544		0.0000	1.0000	29.20
101.5	2,544		0.0000	1.0000	29.20
102.5	2,544		0.0000	1.0000	29.20
103.5	2,544		0.0000	1.0000	29.20
104.5	2,544		0.0000	1.0000	29.20
105.5	2,539		0.0000	1.0000	29.20
106.5					29.20



PLACEMENT BAND 1896-2021

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	3,489,962	1,062	0.0003	0.9997	100.00
0.5	3,387,201	14,091	0.0042	0.9958	99.97
1.5	3,105,103	9,189	0.0030	0.9970	99.55
2.5	2,202,089	37,011	0.0168	0.9832	99.26
3.5	2,260,818	5,836	0.0026	0.9974	97.59
4.5	2,287,765	20,407	0.0089	0.9911	97.34
5.5	2,292,120	31,019	0.0135	0.9865	96.47
6.5	2,363,531	18,092	0.0077	0.9923	95.17
7.5	2,341,714	9,440	0.0040	0.9960	94.44
8.5	2,318,710	4,605	0.0020	0.9980	94.06
9.5	2,254,455	31,463	0.0140	0.9860	93.87
10.5	2,205,353	28,366	0.0129	0.9871	92.56
11.5	2,107,883	24,584	0.0117	0.9883	91.37
12.5	2,025,628	11,558	0.0057	0.9943	90.30
13.5	1,999,381	1,710	0.0009	0.9991	89.79
14.5	1,950,818	614	0.0003	0.9997	89.71
15.5	1,958,564	42,084	0.0215	0.9785	89.68
16.5	1,895,455	10,390	0.0055	0.9945	87.76
17.5	1,878,119	5,380	0.0029	0.9971	87.27
18.5	1,869,132	10,352	0.0055	0.9945	87.02
19.5	1,862,512	6,043	0.0032	0.9968	86.54
20.5	1,832,869	12,575	0.0069	0.9931	86.26
21.5	1,795,780	2,425	0.0014	0.9986	85.67
22.5	1,708,380	10,315	0.0060	0.9940	85.55
23.5	1,436,240	9,610	0.0067	0.9933	85.04
24.5	1,084,662	13,745	0.0127	0.9873	84.47
25.5	1,053,385	11,623	0.0110	0.9890	83.40
26.5	1,065,858	4,166	0.0039	0.9961	82.48
27.5	1,092,028	1,379	0.0013	0.9987	82.16
28.5	1,096,632	11,694	0.0107	0.9893	82.05
29.5	1,084,273	10,086	0.0093	0.9907	81.18
30.5	1,073,310	34,181	0.0318	0.9682	80.42
31.5	1,029,722	42,670	0.0414	0.9586	77.86
32.5	949,538	47,220	0.0497	0.9503	74.63
33.5	874,714	9,654	0.0110	0.9890	70.92
34.5	831,276	2,077	0.0025	0.9975	70.14
35.5	827,844	1,587	0.0019	0.9981	69.96
36.5	808,621	31,341	0.0388	0.9612	69.83
37.5	776,337	3,140	0.0040	0.9960	67.12
38.5	741,453	6,802	0.0092	0.9908	66.85

PLACEMENT BAND 1896-2021

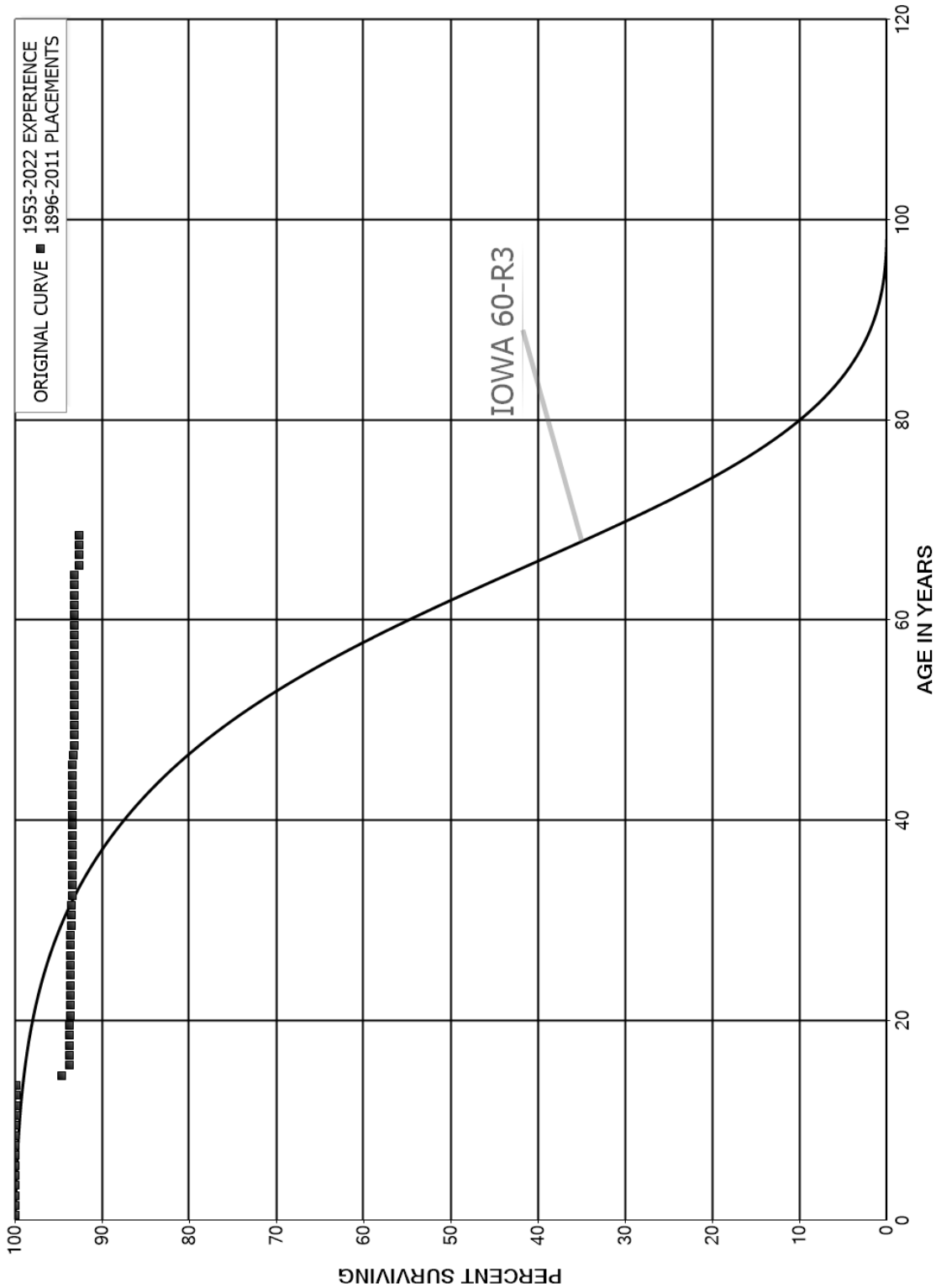
EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	689,655	7,856	0.0114	0.9886	66.24
40.5	646,043	12,223	0.0189	0.9811	65.48
41.5	604,419	7,672	0.0127	0.9873	64.25
42.5	520,424	11,973	0.0230	0.9770	63.43
43.5	507,329	216	0.0004	0.9996	61.97
44.5	508,057	1,058	0.0021	0.9979	61.94
45.5	463,566	2,430	0.0052	0.9948	61.82
46.5	395,559	590	0.0015	0.9985	61.49
47.5	342,099	6,936	0.0203	0.9797	61.40
48.5	270,391		0.0000	1.0000	60.16
49.5	243,914	357	0.0015	0.9985	60.16
50.5	223,012	380	0.0017	0.9983	60.07
51.5	218,233	1,729	0.0079	0.9921	59.96
52.5	215,078	3,666	0.0170	0.9830	59.49
53.5	209,210	4,793	0.0229	0.9771	58.48
54.5	204,410		0.0000	1.0000	57.14
55.5	204,574	1,306	0.0064	0.9936	57.14
56.5	197,268	4,359	0.0221	0.9779	56.77
57.5	179,342	925	0.0052	0.9948	55.52
58.5	180,486		0.0000	1.0000	55.23
59.5	181,230	1,024	0.0056	0.9944	55.23
60.5	180,032	1,425	0.0079	0.9921	54.92
61.5	170,510	665	0.0039	0.9961	54.48
62.5	169,094	79	0.0005	0.9995	54.27
63.5	157,239	921	0.0059	0.9941	54.25
64.5	108,120		0.0000	1.0000	53.93
65.5	100,928		0.0000	1.0000	53.93
66.5	94,381		0.0000	1.0000	53.93
67.5	95,365	288	0.0030	0.9970	53.93
68.5	92,439	2,594	0.0281	0.9719	53.77
69.5	90,344		0.0000	1.0000	52.26
70.5	87,892		0.0000	1.0000	52.26
71.5	76,148	278	0.0037	0.9963	52.26
72.5	66,608		0.0000	1.0000	52.07
73.5	64,599		0.0000	1.0000	52.07
74.5	52,549	1,424	0.0271	0.9729	52.07
75.5	40,899	25	0.0006	0.9994	50.66
76.5	34,004		0.0000	1.0000	50.62
77.5	29,621		0.0000	1.0000	50.62
78.5	28,823		0.0000	1.0000	50.62

PLACEMENT BAND 1896-2021

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	18,443		0.0000	1.0000	50.62
80.5	18,430		0.0000	1.0000	50.62
81.5	18,430		0.0000	1.0000	50.62
82.5	17,752		0.0000	1.0000	50.62
83.5	17,752		0.0000	1.0000	50.62
84.5	17,752		0.0000	1.0000	50.62
85.5	17,752		0.0000	1.0000	50.62
86.5	16,989		0.0000	1.0000	50.62
87.5	16,989	697	0.0410	0.9590	50.62
88.5	16,292		0.0000	1.0000	48.55
89.5	16,292		0.0000	1.0000	48.55
90.5	11,168		0.0000	1.0000	48.55
91.5	11,168		0.0000	1.0000	48.55
92.5	11,168	732	0.0655	0.9345	48.55
93.5	10,436	2,416	0.2315	0.7685	45.37
94.5	8,020		0.0000	1.0000	34.86
95.5	8,020		0.0000	1.0000	34.86
96.5	7,214		0.0000	1.0000	34.86
97.5	4,728		0.0000	1.0000	34.86
98.5	2,095		0.0000	1.0000	34.86
99.5	2,095		0.0000	1.0000	34.86
100.5	2,095		0.0000	1.0000	34.86
101.5	2,095		0.0000	1.0000	34.86
102.5	2,095		0.0000	1.0000	34.86
103.5	2,095		0.0000	1.0000	34.86
104.5	2,095		0.0000	1.0000	34.86
105.5	606		0.0000	1.0000	34.86
106.5					34.86



PLACEMENT BAND 1896-2011

EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,680,838	223	0.0000	1.0000	100.00
0.5	4,682,256		0.0000	1.0000	100.00
1.5	4,744,977	318	0.0001	0.9999	100.00
2.5	4,776,785	1,150	0.0002	0.9998	99.99
3.5	4,449,516		0.0000	1.0000	99.96
4.5	4,371,307	2,651	0.0006	0.9994	99.96
5.5	4,376,478	193	0.0000	1.0000	99.90
6.5	4,377,825		0.0000	1.0000	99.90
7.5	4,376,230	52	0.0000	1.0000	99.90
8.5	4,377,221	151	0.0000	1.0000	99.90
9.5	4,393,042	2,039	0.0005	0.9995	99.89
10.5	4,392,222	1,062	0.0002	0.9998	99.85
11.5	4,391,251	1,162	0.0003	0.9997	99.82
12.5	4,390,269	176	0.0000	1.0000	99.80
13.5	4,395,758	229,504	0.0522	0.9478	99.79
14.5	4,361,358	37,588	0.0086	0.9914	94.58
15.5	4,142,566	1,689	0.0004	0.9996	93.77
16.5	4,092,600	226	0.0001	0.9999	93.73
17.5	4,092,376	972	0.0002	0.9998	93.73
18.5	4,083,527	1,365	0.0003	0.9997	93.70
19.5	4,082,201	2,305	0.0006	0.9994	93.67
20.5	4,079,422	733	0.0002	0.9998	93.62
21.5	4,078,886	111	0.0000	1.0000	93.60
22.5	4,087,070	40	0.0000	1.0000	93.60
23.5	4,087,247	37	0.0000	1.0000	93.60
24.5	4,087,248	453	0.0001	0.9999	93.60
25.5	4,087,151	225	0.0001	0.9999	93.59
26.5	4,085,727		0.0000	1.0000	93.58
27.5	4,082,676	6	0.0000	1.0000	93.58
28.5	4,082,559	1,516	0.0004	0.9996	93.58
29.5	4,081,445	380	0.0001	0.9999	93.55
30.5	4,082,144		0.0000	1.0000	93.54
31.5	4,082,118	6,006	0.0015	0.9985	93.54
32.5	4,078,055		0.0000	1.0000	93.40
33.5	4,078,223	100	0.0000	1.0000	93.40
34.5	4,098,253	432	0.0001	0.9999	93.40
35.5	4,098,793	130	0.0000	1.0000	93.39
36.5	4,101,808		0.0000	1.0000	93.39
37.5	4,092,938		0.0000	1.0000	93.39
38.5	4,090,531		0.0000	1.0000	93.39

PLACEMENT BAND 1896-2011

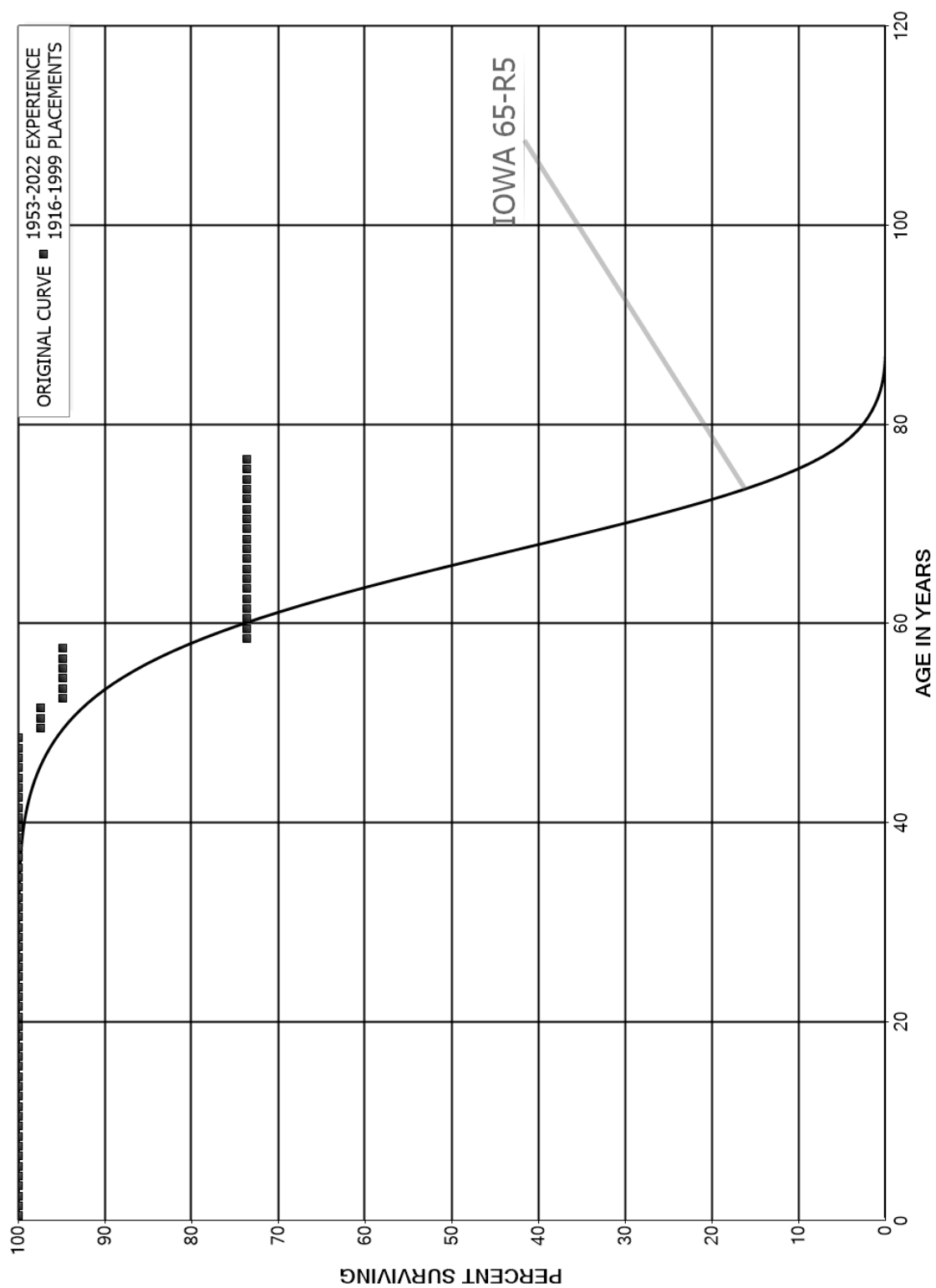
EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	4,092,150	39	0.0000	1.0000	93.39
40.5	4,086,621	26	0.0000	1.0000	93.38
41.5	4,097,287		0.0000	1.0000	93.38
42.5	4,042,911		0.0000	1.0000	93.38
43.5	966,829	50	0.0001	0.9999	93.38
44.5	253,735	14	0.0001	0.9999	93.38
45.5	252,961	230	0.0009	0.9991	93.37
46.5	252,579	353	0.0014	0.9986	93.29
47.5	239,271	3	0.0000	1.0000	93.16
48.5	234,035		0.0000	1.0000	93.16
49.5	231,661		0.0000	1.0000	93.16
50.5	231,644		0.0000	1.0000	93.16
51.5	226,223		0.0000	1.0000	93.16
52.5	226,032		0.0000	1.0000	93.16
53.5	225,462		0.0000	1.0000	93.16
54.5	225,462		0.0000	1.0000	93.16
55.5	225,357		0.0000	1.0000	93.16
56.5	225,465	11	0.0000	1.0000	93.16
57.5	225,454		0.0000	1.0000	93.15
58.5	225,314		0.0000	1.0000	93.15
59.5	209,305		0.0000	1.0000	93.15
60.5	209,305		0.0000	1.0000	93.15
61.5	207,975		0.0000	1.0000	93.15
62.5	207,538	70	0.0003	0.9997	93.15
63.5	175,651		0.0000	1.0000	93.12
64.5	171,800	1,000	0.0058	0.9942	93.12
65.5	167,094		0.0000	1.0000	92.58
66.5	165,567		0.0000	1.0000	92.58
67.5	164,811	20	0.0001	0.9999	92.58
68.5	164,791	50	0.0003	0.9997	92.57
69.5	164,687		0.0000	1.0000	92.54
70.5	146,847		0.0000	1.0000	92.54
71.5	86,240		0.0000	1.0000	92.54
72.5	16,421	90	0.0055	0.9945	92.54
73.5	15,779		0.0000	1.0000	92.03
74.5	11,065	58	0.0053	0.9947	92.03
75.5	9,712		0.0000	1.0000	91.55
76.5	9,597		0.0000	1.0000	91.55
77.5	2,431		0.0000	1.0000	91.55
78.5	2,329	64	0.0273	0.9727	91.55

PLACEMENT BAND 1896-2011

EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	2,237		0.0000	1.0000	89.05
80.5	2,174		0.0000	1.0000	89.05
81.5	1,972		0.0000	1.0000	89.05
82.5	1,953		0.0000	1.0000	89.05
83.5	1,622		0.0000	1.0000	89.05
84.5	1,564		0.0000	1.0000	89.05
85.5	1,564		0.0000	1.0000	89.05
86.5	1,564		0.0000	1.0000	89.05
87.5	1,564		0.0000	1.0000	89.05
88.5	1,564	25	0.0158	0.9842	89.05
89.5	1,539		0.0000	1.0000	87.64
90.5	1,030		0.0000	1.0000	87.64
91.5	1,030		0.0000	1.0000	87.64
92.5	1,030		0.0000	1.0000	87.64
93.5	1,030		0.0000	1.0000	87.64
94.5	914		0.0000	1.0000	87.64
95.5	914		0.0000	1.0000	87.64
96.5	914		0.0000	1.0000	87.64
97.5	844		0.0000	1.0000	87.64
98.5	844		0.0000	1.0000	87.64
99.5	844		0.0000	1.0000	87.64
100.5	844		0.0000	1.0000	87.64
101.5	826		0.0000	1.0000	87.64
102.5	826		0.0000	1.0000	87.64
103.5	776		0.0000	1.0000	87.64
104.5	776		0.0000	1.0000	87.64
105.5	712		0.0000	1.0000	87.64
106.5	653		0.0000	1.0000	87.64
107.5	627		0.0000	1.0000	87.64
108.5	627		0.0000	1.0000	87.64
109.5	321		0.0000	1.0000	87.64
110.5	321		0.0000	1.0000	87.64
111.5	321		0.0000	1.0000	87.64
112.5	110		0.0000	1.0000	87.64
113.5	35		0.0000	1.0000	87.64
114.5	35		0.0000	1.0000	87.64
115.5	35		0.0000	1.0000	87.64
116.5	35		0.0000	1.0000	87.64
117.5	35		0.0000	1.0000	87.64
118.5					87.64



PLACEMENT BAND 1916-1999

EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	433,974		0.0000	1.0000	100.00
0.5	540,775		0.0000	1.0000	100.00
1.5	540,804		0.0000	1.0000	100.00
2.5	562,008		0.0000	1.0000	100.00
3.5	563,340		0.0000	1.0000	100.00
4.5	563,517	29	0.0001	0.9999	100.00
5.5	567,553		0.0000	1.0000	99.99
6.5	567,553		0.0000	1.0000	99.99
7.5	573,420		0.0000	1.0000	99.99
8.5	574,962		0.0000	1.0000	99.99
9.5	576,529		0.0000	1.0000	99.99
10.5	578,447		0.0000	1.0000	99.99
11.5	578,447		0.0000	1.0000	99.99
12.5	578,447		0.0000	1.0000	99.99
13.5	618,492		0.0000	1.0000	99.99
14.5	619,132		0.0000	1.0000	99.99
15.5	619,150		0.0000	1.0000	99.99
16.5	619,150		0.0000	1.0000	99.99
17.5	618,736		0.0000	1.0000	99.99
18.5	618,736		0.0000	1.0000	99.99
19.5	618,736		0.0000	1.0000	99.99
20.5	618,736		0.0000	1.0000	99.99
21.5	618,096		0.0000	1.0000	99.99
22.5	616,178		0.0000	1.0000	99.99
23.5	570,381		0.0000	1.0000	99.99
24.5	263,507		0.0000	1.0000	99.99
25.5	263,507		0.0000	1.0000	99.99
26.5	263,507		0.0000	1.0000	99.99
27.5	263,507		0.0000	1.0000	99.99
28.5	263,588	65	0.0002	0.9998	99.99
29.5	251,507		0.0000	1.0000	99.97
30.5	249,055		0.0000	1.0000	99.97
31.5	249,447		0.0000	1.0000	99.97
32.5	249,406		0.0000	1.0000	99.97
33.5	247,463	35	0.0001	0.9999	99.97
34.5	248,428		0.0000	1.0000	99.96
35.5	228,305		0.0000	1.0000	99.96
36.5	228,306		0.0000	1.0000	99.96
37.5	228,331		0.0000	1.0000	99.96
38.5	228,304		0.0000	1.0000	99.96

PLACEMENT BAND 1916-1999

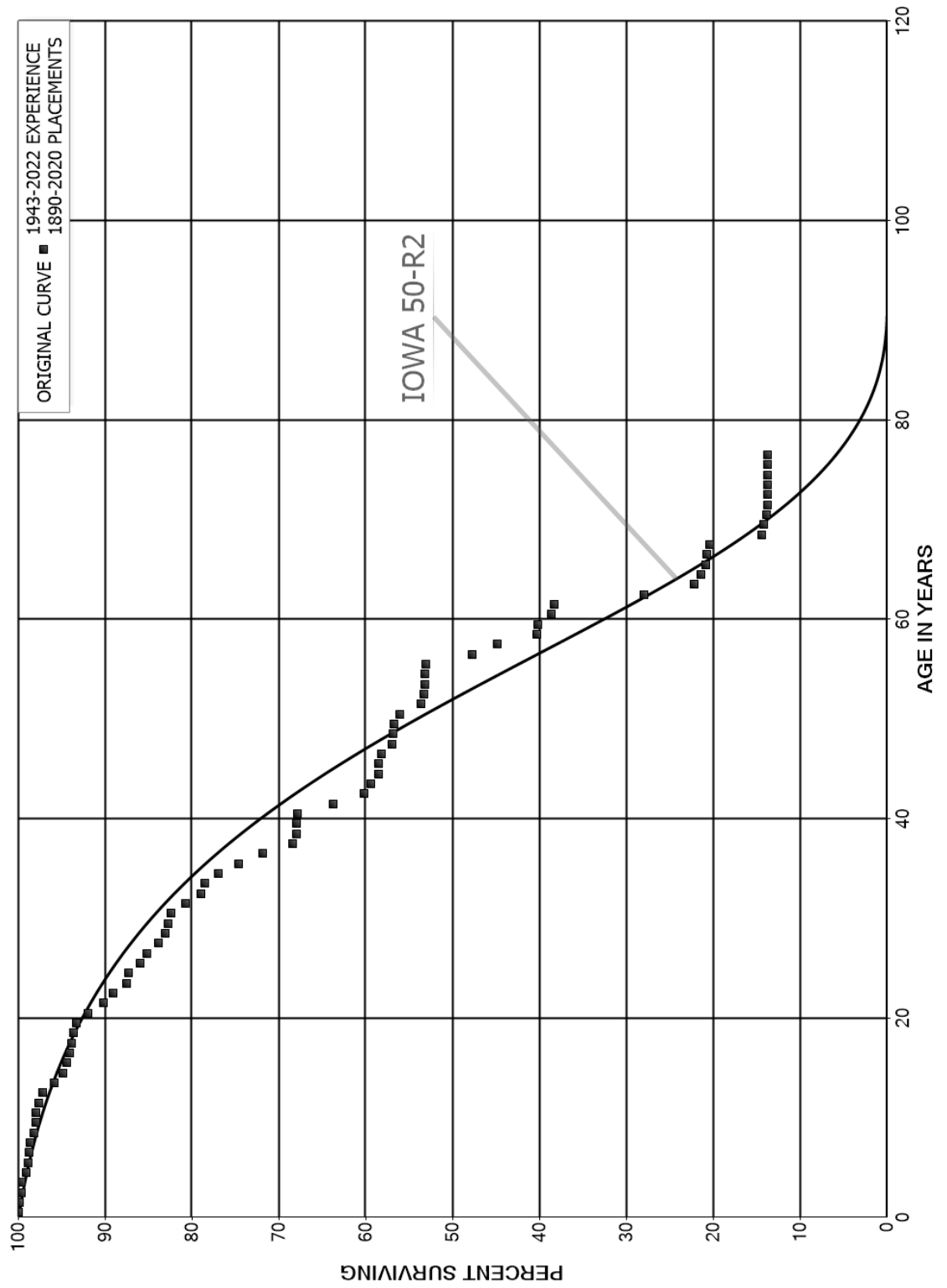
EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	228,304		0.0000	1.0000	99.96
40.5	182,756		0.0000	1.0000	99.96
41.5	181,677		0.0000	1.0000	99.96
42.5	180,464		0.0000	1.0000	99.96
43.5	17,732		0.0000	1.0000	99.96
44.5	11,303		0.0000	1.0000	99.96
45.5	11,303		0.0000	1.0000	99.96
46.5	11,303		0.0000	1.0000	99.96
47.5	11,303		0.0000	1.0000	99.96
48.5	11,303	285	0.0252	0.9748	99.96
49.5	11,018		0.0000	1.0000	97.44
50.5	11,018		0.0000	1.0000	97.44
51.5	11,018	291	0.0264	0.9736	97.44
52.5	10,727		0.0000	1.0000	94.87
53.5	10,727		0.0000	1.0000	94.87
54.5	10,727		0.0000	1.0000	94.87
55.5	10,727		0.0000	1.0000	94.87
56.5	10,727		0.0000	1.0000	94.87
57.5	10,727	2,403	0.2240	0.7760	94.87
58.5	7,881		0.0000	1.0000	73.62
59.5	7,881		0.0000	1.0000	73.62
60.5	7,881		0.0000	1.0000	73.62
61.5	7,881		0.0000	1.0000	73.62
62.5	7,869		0.0000	1.0000	73.62
63.5	7,181		0.0000	1.0000	73.62
64.5	6,523		0.0000	1.0000	73.62
65.5	6,523	1	0.0002	0.9998	73.62
66.5	6,497		0.0000	1.0000	73.61
67.5	6,497		0.0000	1.0000	73.61
68.5	6,202		0.0000	1.0000	73.61
69.5	6,148		0.0000	1.0000	73.61
70.5	6,148		0.0000	1.0000	73.61
71.5	5,794		0.0000	1.0000	73.61
72.5	5,397		0.0000	1.0000	73.61
73.5	1,766		0.0000	1.0000	73.61
74.5	1,691		0.0000	1.0000	73.61
75.5	1,662		0.0000	1.0000	73.61
76.5	1,662		0.0000	1.0000	73.61
77.5	1,662		0.0000	1.0000	73.61
78.5	199		0.0000	1.0000	73.61

PLACEMENT BAND 1916-1999

EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	199		0.0000	1.0000	73.61
80.5	199		0.0000	1.0000	73.61
81.5	100		0.0000	1.0000	73.61
82.5	100		0.0000	1.0000	73.61
83.5					73.61



PLACEMENT BAND 1890-2020

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	24,140,582	493	0.0000	1.0000	100.00
0.5	23,645,749	27,036	0.0011	0.9989	100.00
1.5	21,262,623	48,385	0.0023	0.9977	99.88
2.5	15,940,544	15,087	0.0009	0.9991	99.66
3.5	12,292,503	65,167	0.0053	0.9947	99.56
4.5	9,822,876	17,510	0.0018	0.9982	99.03
5.5	9,840,275	9,698	0.0010	0.9990	98.86
6.5	9,731,960	11,707	0.0012	0.9988	98.76
7.5	8,460,986	40,773	0.0048	0.9952	98.64
8.5	7,944,431	17,390	0.0022	0.9978	98.17
9.5	6,399,215	3,887	0.0006	0.9994	97.95
10.5	6,385,653	19,835	0.0031	0.9969	97.89
11.5	6,275,311	26,802	0.0043	0.9957	97.59
12.5	6,302,656	87,600	0.0139	0.9861	97.17
13.5	6,224,589	65,281	0.0105	0.9895	95.82
14.5	5,507,093	23,898	0.0043	0.9957	94.82
15.5	5,250,575	18,509	0.0035	0.9965	94.40
16.5	3,596,457	10,364	0.0029	0.9971	94.07
17.5	3,564,134	5,319	0.0015	0.9985	93.80
18.5	3,071,165	12,723	0.0041	0.9959	93.66
19.5	3,073,229	42,653	0.0139	0.9861	93.27
20.5	2,957,091	59,515	0.0201	0.9799	91.98
21.5	2,867,485	35,260	0.0123	0.9877	90.13
22.5	2,757,346	45,335	0.0164	0.9836	89.02
23.5	2,673,190	6,701	0.0025	0.9975	87.55
24.5	2,526,847	39,733	0.0157	0.9843	87.34
25.5	2,527,684	24,019	0.0095	0.9905	85.96
26.5	2,626,485	41,082	0.0156	0.9844	85.14
27.5	2,592,405	22,724	0.0088	0.9912	83.81
28.5	2,113,907	9,769	0.0046	0.9954	83.08
29.5	1,973,273	6,889	0.0035	0.9965	82.69
30.5	1,912,823	38,348	0.0200	0.9800	82.41
31.5	1,830,775	41,550	0.0227	0.9773	80.75
32.5	1,762,511	9,769	0.0055	0.9945	78.92
33.5	1,744,529	34,646	0.0199	0.9801	78.48
34.5	1,535,736	45,794	0.0298	0.9702	76.92
35.5	1,489,899	56,225	0.0377	0.9623	74.63
36.5	1,380,048	65,583	0.0475	0.9525	71.81
37.5	1,170,410	7,857	0.0067	0.9933	68.40
38.5	1,152,657	643	0.0006	0.9994	67.94

PLACEMENT BAND 1890-2020

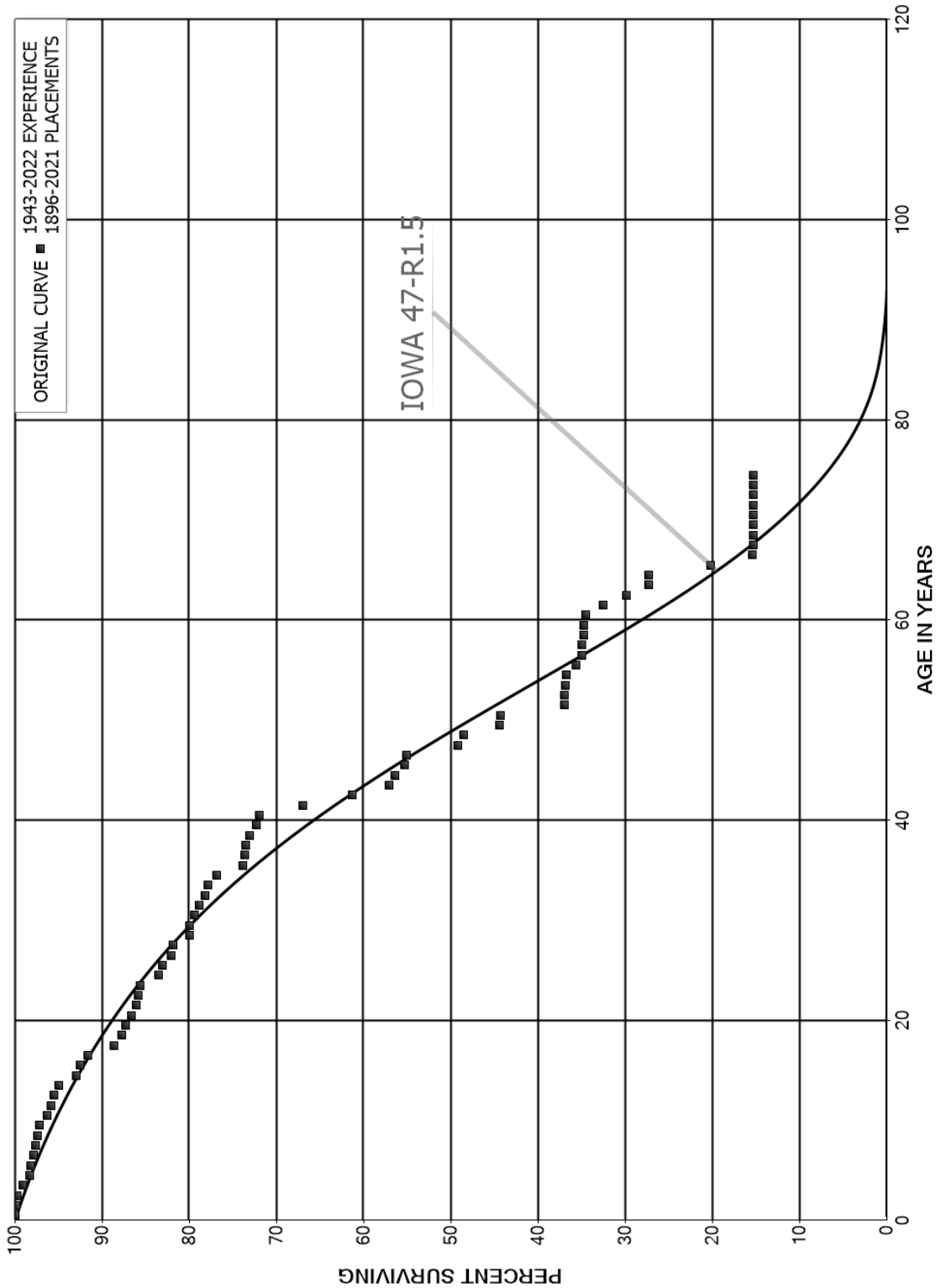
EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,042,422	919	0.0009	0.9991	67.90
40.5	1,027,559	61,871	0.0602	0.9398	67.84
41.5	969,508	55,062	0.0568	0.9432	63.76
42.5	895,503	10,797	0.0121	0.9879	60.14
43.5	739,793	10,634	0.0144	0.9856	59.41
44.5	710,846	428	0.0006	0.9994	58.56
45.5	708,173	3,904	0.0055	0.9945	58.52
46.5	696,378	14,701	0.0211	0.9789	58.20
47.5	707,511	2,133	0.0030	0.9970	56.97
48.5	691,862	521	0.0008	0.9992	56.80
49.5	650,162	8,238	0.0127	0.9873	56.76
50.5	632,665	27,769	0.0439	0.9561	56.04
51.5	577,419	2,871	0.0050	0.9950	53.58
52.5	415,526	1,485	0.0036	0.9964	53.31
53.5	400,917	7	0.0000	1.0000	53.12
54.5	308,259	595	0.0019	0.9981	53.12
55.5	300,116	30,002	0.1000	0.9000	53.02
56.5	260,526	15,705	0.0603	0.9397	47.72
57.5	238,936	24,418	0.1022	0.8978	44.84
58.5	208,135	564	0.0027	0.9973	40.26
59.5	215,402	8,264	0.0384	0.9616	40.15
60.5	211,313	1,731	0.0082	0.9918	38.61
61.5	205,287	55,235	0.2691	0.7309	38.29
62.5	150,082	31,465	0.2097	0.7903	27.99
63.5	118,056	3,919	0.0332	0.9668	22.12
64.5	112,267	3,120	0.0278	0.9722	21.39
65.5	108,702	306	0.0028	0.9972	20.79
66.5	107,117	1,808	0.0169	0.9831	20.73
67.5	104,591	30,864	0.2951	0.7049	20.38
68.5	70,666	1,163	0.0165	0.9835	14.37
69.5	69,443	1,268	0.0183	0.9817	14.13
70.5	56,004	672	0.0120	0.9880	13.87
71.5	55,488		0.0000	1.0000	13.71
72.5	56,654		0.0000	1.0000	13.71
73.5	56,633		0.0000	1.0000	13.71
74.5	37,498	10	0.0003	0.9997	13.71
75.5	28,556	57	0.0020	0.9980	13.70
76.5	13,593	308	0.0226	0.9774	13.68
77.5	13,139		0.0000	1.0000	13.37
78.5	12,801		0.0000	1.0000	13.37

PLACEMENT BAND 1890-2020

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	12,231		0.0000	1.0000	13.37
80.5	12,231	4	0.0003	0.9997	13.37
81.5	10,773		0.0000	1.0000	13.36
82.5	11,479	9	0.0008	0.9992	13.36
83.5	11,386		0.0000	1.0000	13.35
84.5	11,382		0.0000	1.0000	13.35
85.5	11,362		0.0000	1.0000	13.35
86.5	11,362		0.0000	1.0000	13.35
87.5	11,362		0.0000	1.0000	13.35
88.5	11,305	45	0.0040	0.9960	13.35
89.5	11,240		0.0000	1.0000	13.30
90.5	11,240	2,121	0.1887	0.8113	13.30
91.5	9,119		0.0000	1.0000	10.79
92.5	9,119		0.0000	1.0000	10.79
93.5	9,119		0.0000	1.0000	10.79
94.5	9,119		0.0000	1.0000	10.79
95.5	9,119		0.0000	1.0000	10.79
96.5	9,056		0.0000	1.0000	10.79
97.5	7,822		0.0000	1.0000	10.79
98.5	2,229		0.0000	1.0000	10.79
99.5	2,229		0.0000	1.0000	10.79
100.5	2,184		0.0000	1.0000	10.79
101.5	2,184		0.0000	1.0000	10.79
102.5	2,184		0.0000	1.0000	10.79
103.5	2,184		0.0000	1.0000	10.79
104.5	2,158		0.0000	1.0000	10.79
105.5	1,795		0.0000	1.0000	10.79
106.5	9		0.0000	1.0000	10.79
107.5	9		0.0000	1.0000	10.79
108.5	9		0.0000	1.0000	10.79
109.5	9		0.0000	1.0000	10.79
110.5					10.79



PLACEMENT BAND 1896-2021

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	46,340,151	21,197	0.0005	0.9995	100.00
0.5	42,581,519	56,638	0.0013	0.9987	99.95
1.5	39,854,460	20,905	0.0005	0.9995	99.82
2.5	33,279,030	246,904	0.0074	0.9926	99.77
3.5	28,677,710	221,440	0.0077	0.9923	99.03
4.5	28,392,829	31,655	0.0011	0.9989	98.26
5.5	28,126,721	78,234	0.0028	0.9972	98.15
6.5	27,968,002	90,427	0.0032	0.9968	97.88
7.5	27,527,172	34,513	0.0013	0.9987	97.57
8.5	24,011,893	56,694	0.0024	0.9976	97.44
9.5	23,113,329	230,006	0.0100	0.9900	97.21
10.5	22,828,195	109,413	0.0048	0.9952	96.25
11.5	22,288,883	60,070	0.0027	0.9973	95.78
12.5	21,723,059	139,881	0.0064	0.9936	95.53
13.5	21,190,266	438,979	0.0207	0.9793	94.91
14.5	20,722,822	94,503	0.0046	0.9954	92.94
15.5	20,484,984	191,798	0.0094	0.9906	92.52
16.5	19,395,289	652,762	0.0337	0.9663	91.65
17.5	18,386,953	183,479	0.0100	0.9900	88.57
18.5	16,892,469	77,493	0.0046	0.9954	87.69
19.5	15,928,534	131,187	0.0082	0.9918	87.28
20.5	13,909,779	79,127	0.0057	0.9943	86.56
21.5	13,463,610	43,364	0.0032	0.9968	86.07
22.5	12,780,465	32,591	0.0026	0.9974	85.80
23.5	10,159,339	248,319	0.0244	0.9756	85.58
24.5	9,686,994	48,077	0.0050	0.9950	83.48
25.5	9,403,812	111,364	0.0118	0.9882	83.07
26.5	9,357,237	23,317	0.0025	0.9975	82.09
27.5	9,230,207	218,167	0.0236	0.9764	81.88
28.5	8,528,321	4,456	0.0005	0.9995	79.95
29.5	7,826,269	52,385	0.0067	0.9933	79.90
30.5	7,661,473	56,144	0.0073	0.9927	79.37
31.5	7,349,750	58,211	0.0079	0.9921	78.79
32.5	6,325,497	28,148	0.0044	0.9956	78.16
33.5	6,249,479	76,678	0.0123	0.9877	77.82
34.5	6,011,898	238,207	0.0396	0.9604	76.86
35.5	5,532,119	14,920	0.0027	0.9973	73.82
36.5	5,281,889	4,377	0.0008	0.9992	73.62
37.5	5,443,286	39,280	0.0072	0.9928	73.56
38.5	5,120,171	49,056	0.0096	0.9904	73.03

PLACEMENT BAND 1896-2021

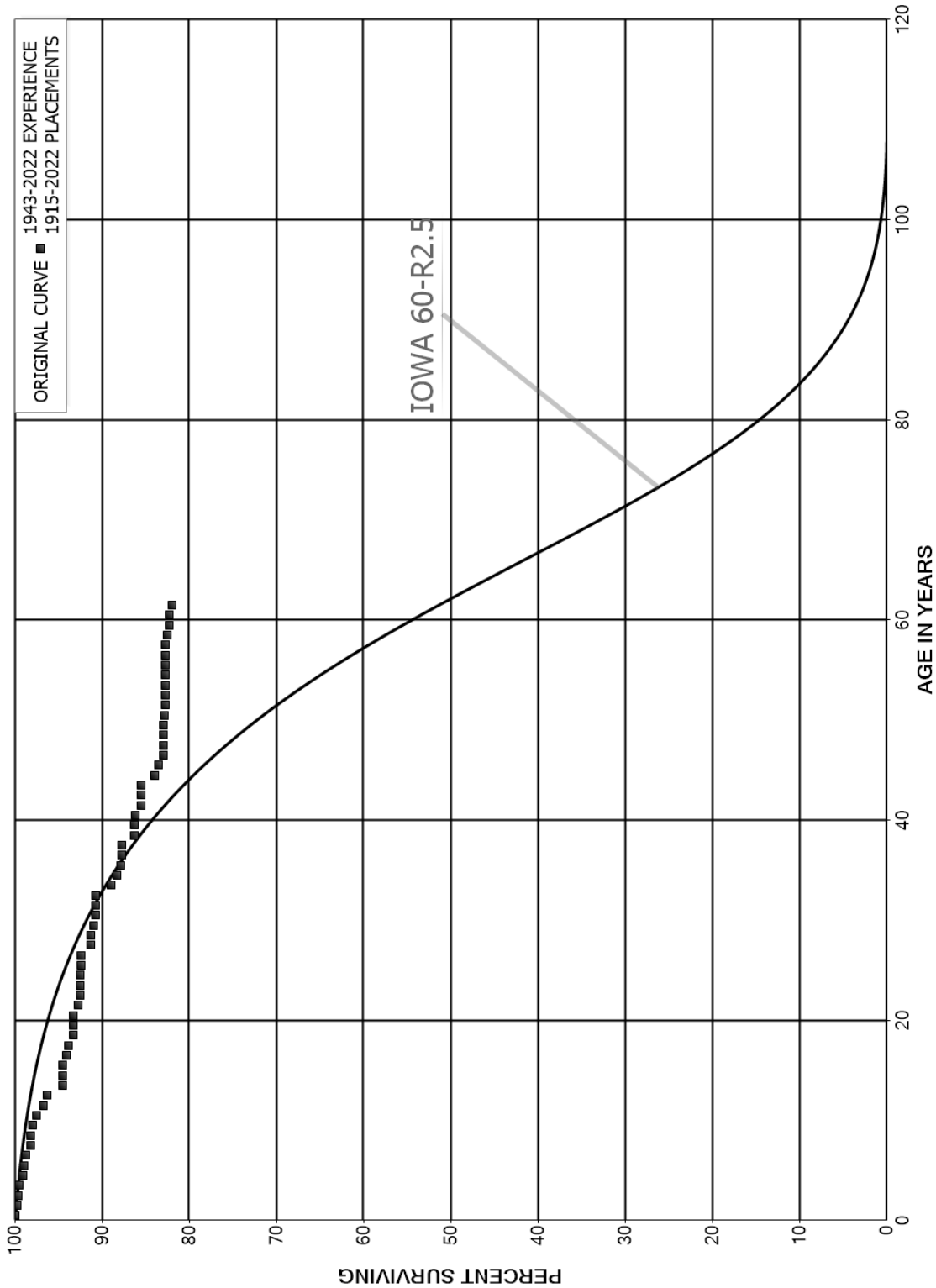
EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	4,755,866	21,538	0.0045	0.9955	72.33
40.5	4,704,388	331,695	0.0705	0.9295	72.00
41.5	4,347,196	364,198	0.0838	0.9162	66.92
42.5	1,826,952	128,163	0.0702	0.9298	61.32
43.5	1,714,287	17,407	0.0102	0.9898	57.01
44.5	1,689,730	33,150	0.0196	0.9804	56.43
45.5	1,623,302	8,576	0.0053	0.9947	55.33
46.5	1,615,234	172,614	0.1069	0.8931	55.04
47.5	1,433,587	20,471	0.0143	0.9857	49.15
48.5	1,287,379	106,793	0.0830	0.9170	48.45
49.5	1,185,956	5,204	0.0044	0.9956	44.43
50.5	1,163,444	191,833	0.1649	0.8351	44.24
51.5	960,906	761	0.0008	0.9992	36.94
52.5	919,691	3,201	0.0035	0.9965	36.91
53.5	900,960	2,432	0.0027	0.9973	36.79
54.5	898,471	26,954	0.0300	0.9700	36.69
55.5	869,388	14,095	0.0162	0.9838	35.59
56.5	853,938	2,051	0.0024	0.9976	35.01
57.5	852,695	4,583	0.0054	0.9946	34.93
58.5	871,107	477	0.0005	0.9995	34.74
59.5	871,280	4,458	0.0051	0.9949	34.72
60.5	866,394	50,046	0.0578	0.9422	34.54
61.5	816,664	68,426	0.0838	0.9162	32.55
62.5	746,339	62,713	0.0840	0.9160	29.82
63.5	657,558	759	0.0012	0.9988	27.31
64.5	652,068	170,277	0.2611	0.7389	27.28
65.5	481,645	114,196	0.2371	0.7629	20.16
66.5	325,824	1,376	0.0042	0.9958	15.38
67.5	324,115		0.0000	1.0000	15.31
68.5	305,411	60	0.0002	0.9998	15.31
69.5	223,900		0.0000	1.0000	15.31
70.5	211,656		0.0000	1.0000	15.31
71.5	211,021		0.0000	1.0000	15.31
72.5	208,636	50	0.0002	0.9998	15.31
73.5	183,047		0.0000	1.0000	15.31
74.5	26,768		0.0000	1.0000	15.31
75.5	26,741	49	0.0018	0.9982	15.31
76.5	26,719		0.0000	1.0000	15.28
77.5	26,719	93	0.0035	0.9965	15.28
78.5	26,625		0.0000	1.0000	15.23

PLACEMENT BAND 1896-2021

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	26,625		0.0000	1.0000	15.23
80.5	26,053		0.0000	1.0000	15.23
81.5	25,927		0.0000	1.0000	15.23
82.5	25,461		0.0000	1.0000	15.23
83.5	25,461		0.0000	1.0000	15.23
84.5	25,315		0.0000	1.0000	15.23
85.5	2,804		0.0000	1.0000	15.23
86.5	2,804	26	0.0094	0.9906	15.23
87.5	2,649		0.0000	1.0000	15.08
88.5	2,257		0.0000	1.0000	15.08
89.5	2,257		0.0000	1.0000	15.08
90.5	2,257		0.0000	1.0000	15.08
91.5	2,257		0.0000	1.0000	15.08
92.5	2,257		0.0000	1.0000	15.08
93.5	2,257	59	0.0260	0.9740	15.08
94.5	2,199		0.0000	1.0000	14.69
95.5	2,199		0.0000	1.0000	14.69
96.5	201		0.0000	1.0000	14.69
97.5	201		0.0000	1.0000	14.69
98.5	201		0.0000	1.0000	14.69
99.5	201		0.0000	1.0000	14.69
100.5					14.69



PLACEMENT BAND 1915-2022

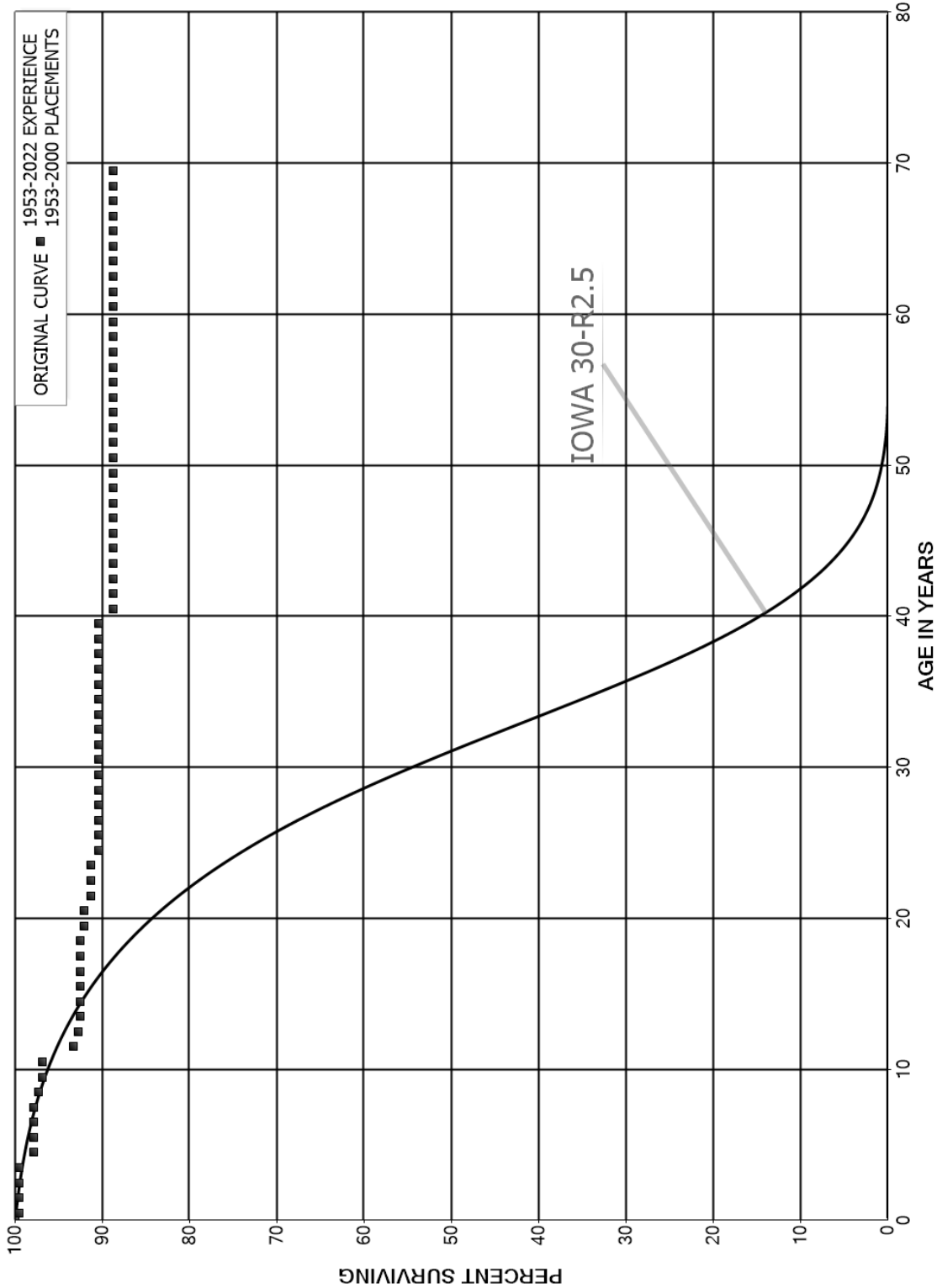
EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	5,527,882	2,606	0.0005	0.9995	100.00
0.5	5,676,454	14,482	0.0026	0.9974	99.95
1.5	5,628,118	5,018	0.0009	0.9991	99.70
2.5	4,763,492	4,884	0.0010	0.9990	99.61
3.5	4,763,142	18,571	0.0039	0.9961	99.51
4.5	4,748,694	5,330	0.0011	0.9989	99.12
5.5	4,701,558	14,180	0.0030	0.9970	99.01
6.5	4,688,783	23,215	0.0050	0.9950	98.71
7.5	4,587,236	2,899	0.0006	0.9994	98.22
8.5	4,389,716	7,024	0.0016	0.9984	98.16
9.5	1,441,487	8,003	0.0056	0.9944	98.00
10.5	1,135,805	8,692	0.0077	0.9923	97.46
11.5	892,002	4,224	0.0047	0.9953	96.71
12.5	888,106	15,986	0.0180	0.9820	96.25
13.5	870,795		0.0000	1.0000	94.52
14.5	850,968		0.0000	1.0000	94.52
15.5	823,979	3,729	0.0045	0.9955	94.52
16.5	815,347	1,768	0.0022	0.9978	94.09
17.5	813,759	4,909	0.0060	0.9940	93.89
18.5	800,301		0.0000	1.0000	93.32
19.5	800,286	645	0.0008	0.9992	93.32
20.5	865,220	4,765	0.0055	0.9945	93.25
21.5	862,275	1,849	0.0021	0.9979	92.73
22.5	727,778	201	0.0003	0.9997	92.54
23.5	698,361		0.0000	1.0000	92.51
24.5	675,565	542	0.0008	0.9992	92.51
25.5	650,120	452	0.0007	0.9993	92.44
26.5	652,692	7,836	0.0120	0.9880	92.37
27.5	645,077		0.0000	1.0000	91.26
28.5	636,073	1,980	0.0031	0.9969	91.26
29.5	633,572	1,895	0.0030	0.9970	90.98
30.5	625,041		0.0000	1.0000	90.71
31.5	625,261		0.0000	1.0000	90.71
32.5	616,928	12,098	0.0196	0.9804	90.71
33.5	604,648	4,199	0.0069	0.9931	88.93
34.5	597,006	3,234	0.0054	0.9946	88.31
35.5	517,955	549	0.0011	0.9989	87.83
36.5	447,865		0.0000	1.0000	87.74
37.5	435,359	7,350	0.0169	0.9831	87.74
38.5	425,935	77	0.0002	0.9998	86.26

PLACEMENT BAND 1915-2022

EXPERIENCE BAND 1943-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	425,858	235	0.0006	0.9994	86.24
40.5	425,402	3,235	0.0076	0.9924	86.19
41.5	422,002	319	0.0008	0.9992	85.54
42.5	408,650		0.0000	1.0000	85.47
43.5	151,599	2,803	0.0185	0.9815	85.47
44.5	148,796	758	0.0051	0.9949	83.89
45.5	148,038	990	0.0067	0.9933	83.47
46.5	146,400		0.0000	1.0000	82.91
47.5	74,851		0.0000	1.0000	82.91
48.5	72,869	0	0.0000	1.0000	82.91
49.5	72,869	20	0.0003	0.9997	82.91
50.5	72,455	95	0.0013	0.9987	82.88
51.5	65,633		0.0000	1.0000	82.78
52.5	52,032	58	0.0011	0.9989	82.78
53.5	52,091		0.0000	1.0000	82.68
54.5	46,629		0.0000	1.0000	82.68
55.5	46,171		0.0000	1.0000	82.68
56.5	46,381		0.0000	1.0000	82.68
57.5	46,381	117	0.0025	0.9975	82.68
58.5	46,264	107	0.0023	0.9977	82.48
59.5	46,157		0.0000	1.0000	82.29
60.5	45,249	211	0.0047	0.9953	82.29
61.5	22,031		0.0000	1.0000	81.90
62.5	13,184		0.0000	1.0000	81.90
63.5	13,184		0.0000	1.0000	81.90
64.5	2,064		0.0000	1.0000	81.90
65.5	1,814		0.0000	1.0000	81.90
66.5	1,814		0.0000	1.0000	81.90
67.5	1,814		0.0000	1.0000	81.90
68.5	1,814		0.0000	1.0000	81.90
69.5	1,398		0.0000	1.0000	81.90
70.5					81.90



PLACEMENT BAND 1953-2000

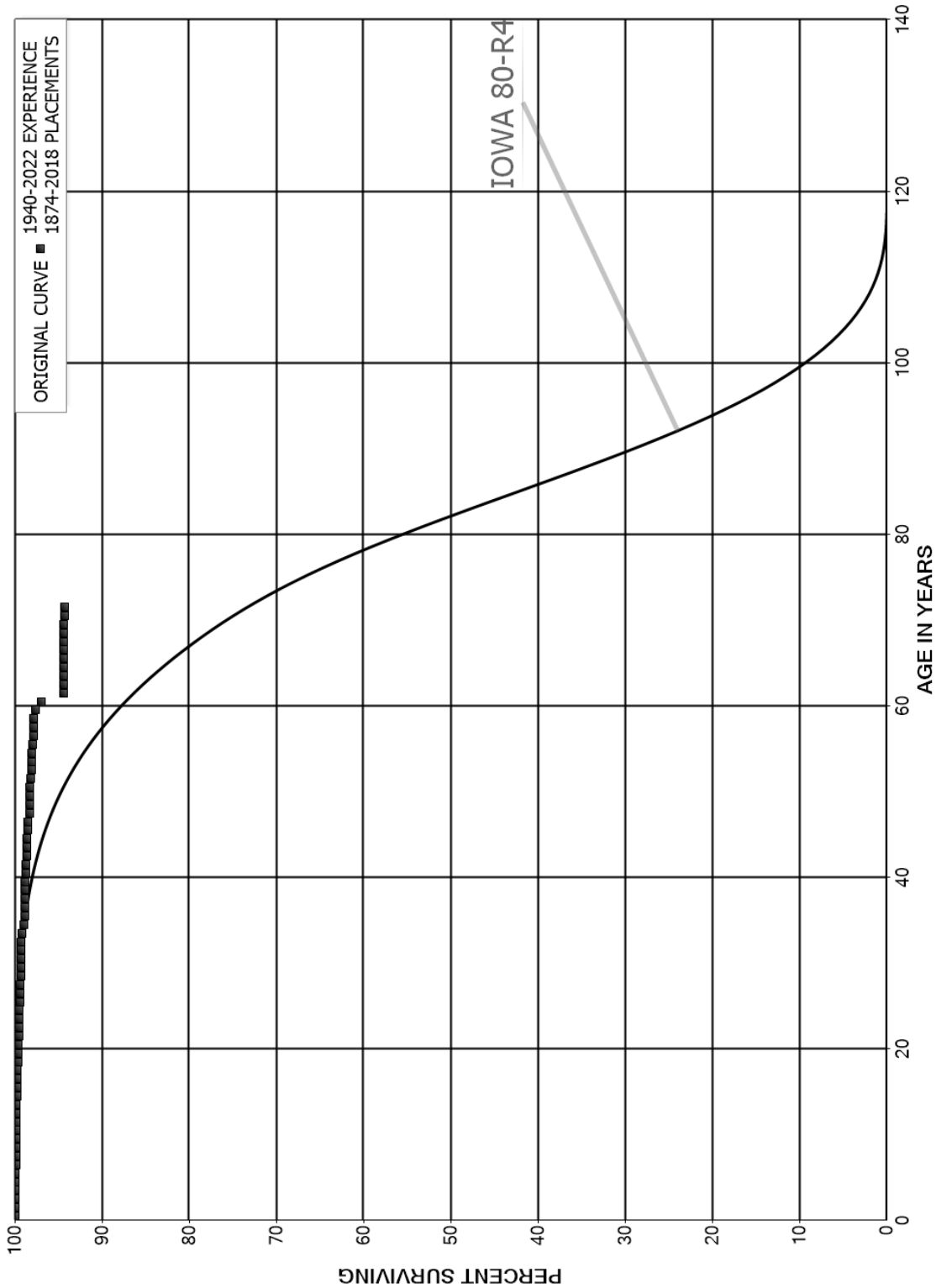
EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	95,590	476	0.0050	0.9950	100.00
0.5	104,697		0.0000	1.0000	99.50
1.5	103,636		0.0000	1.0000	99.50
2.5	102,432		0.0000	1.0000	99.50
3.5	102,432	1,728	0.0169	0.9831	99.50
4.5	100,703		0.0000	1.0000	97.82
5.5	100,703		0.0000	1.0000	97.82
6.5	100,703		0.0000	1.0000	97.82
7.5	100,703	574	0.0057	0.9943	97.82
8.5	100,129	474	0.0047	0.9953	97.26
9.5	99,655		0.0000	1.0000	96.80
10.5	99,655	3,672	0.0368	0.9632	96.80
11.5	95,983	495	0.0052	0.9948	93.24
12.5	95,489	244	0.0026	0.9974	92.76
13.5	54,893		0.0000	1.0000	92.52
14.5	53,677	21	0.0004	0.9996	92.52
15.5	53,657		0.0000	1.0000	92.48
16.5	53,657		0.0000	1.0000	92.48
17.5	53,657		0.0000	1.0000	92.48
18.5	53,657	227	0.0042	0.9958	92.48
19.5	53,430		0.0000	1.0000	92.09
20.5	53,430	475	0.0089	0.9911	92.09
21.5	52,954		0.0000	1.0000	91.27
22.5	52,954		0.0000	1.0000	91.27
23.5	52,954	486	0.0092	0.9908	91.27
24.5	52,469		0.0000	1.0000	90.44
25.5	51,988		0.0000	1.0000	90.44
26.5	51,988		0.0000	1.0000	90.44
27.5	51,988		0.0000	1.0000	90.44
28.5	51,988		0.0000	1.0000	90.44
29.5	51,988		0.0000	1.0000	90.44
30.5	51,988		0.0000	1.0000	90.44
31.5	51,988		0.0000	1.0000	90.44
32.5	22,427		0.0000	1.0000	90.44
33.5	22,427		0.0000	1.0000	90.44
34.5	22,427		0.0000	1.0000	90.44
35.5	22,427		0.0000	1.0000	90.44
36.5	22,427		0.0000	1.0000	90.44
37.5	21,117		0.0000	1.0000	90.44
38.5	21,117		0.0000	1.0000	90.44

PLACEMENT BAND 1953-2000

EXPERIENCE BAND 1953-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	20,932	389	0.0186	0.9814	90.44
40.5	18,865		0.0000	1.0000	88.76
41.5	15,972		0.0000	1.0000	88.76
42.5	15,972		0.0000	1.0000	88.76
43.5	8,561	8	0.0009	0.9991	88.76
44.5	8,553		0.0000	1.0000	88.68
45.5	8,553		0.0000	1.0000	88.68
46.5	8,553		0.0000	1.0000	88.68
47.5	8,553		0.0000	1.0000	88.68
48.5	8,553		0.0000	1.0000	88.68
49.5	6,856		0.0000	1.0000	88.68
50.5	737		0.0000	1.0000	88.68
51.5	737		0.0000	1.0000	88.68
52.5	737		0.0000	1.0000	88.68
53.5	737		0.0000	1.0000	88.68
54.5	737		0.0000	1.0000	88.68
55.5	737		0.0000	1.0000	88.68
56.5	737		0.0000	1.0000	88.68
57.5	737		0.0000	1.0000	88.68
58.5	737		0.0000	1.0000	88.68
59.5	737		0.0000	1.0000	88.68
60.5	737		0.0000	1.0000	88.68
61.5	737		0.0000	1.0000	88.68
62.5	737		0.0000	1.0000	88.68
63.5	737		0.0000	1.0000	88.68
64.5	737		0.0000	1.0000	88.68
65.5	597		0.0000	1.0000	88.68
66.5	597		0.0000	1.0000	88.68
67.5	597		0.0000	1.0000	88.68
68.5	597		0.0000	1.0000	88.68
69.5					88.68



PLACEMENT BAND 1874-2018

EXPERIENCE BAND 1940-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	5,388,153	56	0.0000	1.0000	100.00
0.5	5,370,775		0.0000	1.0000	100.00
1.5	5,376,971	474	0.0001	0.9999	100.00
2.5	5,325,863	914	0.0002	0.9998	99.99
3.5	5,314,987	2,785	0.0005	0.9995	99.97
4.5	5,218,617	1,228	0.0002	0.9998	99.92
5.5	5,125,779	506	0.0001	0.9999	99.90
6.5	5,089,698	1,819	0.0004	0.9996	99.89
7.5	4,883,496	804	0.0002	0.9998	99.85
8.5	4,807,818		0.0000	1.0000	99.84
9.5	4,736,944	420	0.0001	0.9999	99.84
10.5	4,756,746	91	0.0000	1.0000	99.83
11.5	4,636,492	986	0.0002	0.9998	99.82
12.5	4,594,219	176	0.0000	1.0000	99.80
13.5	4,576,664	3,256	0.0007	0.9993	99.80
14.5	4,417,817	151	0.0000	1.0000	99.73
15.5	4,382,661	147	0.0000	1.0000	99.72
16.5	4,378,614		0.0000	1.0000	99.72
17.5	4,248,801	4,075	0.0010	0.9990	99.72
18.5	4,193,748	225	0.0001	0.9999	99.63
19.5	4,084,308	444	0.0001	0.9999	99.62
20.5	3,938,644	2,638	0.0007	0.9993	99.61
21.5	3,420,943	228	0.0001	0.9999	99.54
22.5	3,445,108	920	0.0003	0.9997	99.54
23.5	3,297,621	1,646	0.0005	0.9995	99.51
24.5	3,278,479	625	0.0002	0.9998	99.46
25.5	3,229,043	264	0.0001	0.9999	99.44
26.5	3,230,575	2,536	0.0008	0.9992	99.43
27.5	3,169,705	710	0.0002	0.9998	99.35
28.5	3,137,350		0.0000	1.0000	99.33
29.5	3,099,205	830	0.0003	0.9997	99.33
30.5	3,067,015	905	0.0003	0.9997	99.31
31.5	3,009,467	1,091	0.0004	0.9996	99.28
32.5	2,784,773	735	0.0003	0.9997	99.24
33.5	2,650,551	6,726	0.0025	0.9975	99.21
34.5	2,535,742	4,145	0.0016	0.9984	98.96
35.5	2,328,129	101	0.0000	1.0000	98.80
36.5	2,388,467	136	0.0001	0.9999	98.80
37.5	2,365,311		0.0000	1.0000	98.79
38.5	2,301,451	259	0.0001	0.9999	98.79

PLACEMENT BAND 1874-2018

EXPERIENCE BAND 1940-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	2,274,783	572	0.0003	0.9997	98.78
40.5	2,237,354	1,642	0.0007	0.9993	98.76
41.5	2,219,034	697	0.0003	0.9997	98.68
42.5	2,147,917	821	0.0004	0.9996	98.65
43.5	2,116,247	160	0.0001	0.9999	98.61
44.5	2,022,942	1,924	0.0010	0.9990	98.61
45.5	2,009,640	280	0.0001	0.9999	98.51
46.5	1,984,473	3,670	0.0018	0.9982	98.50
47.5	1,939,025		0.0000	1.0000	98.32
48.5	1,821,051	104	0.0001	0.9999	98.32
49.5	1,754,940	486	0.0003	0.9997	98.31
50.5	1,747,080	2,904	0.0017	0.9983	98.28
51.5	1,695,035	642	0.0004	0.9996	98.12
52.5	1,634,020	557	0.0003	0.9997	98.08
53.5	1,592,760	396	0.0002	0.9998	98.05
54.5	1,548,263	2,140	0.0014	0.9986	98.03
55.5	1,513,182	25	0.0000	1.0000	97.89
56.5	1,465,596	68	0.0000	1.0000	97.89
57.5	1,371,342	974	0.0007	0.9993	97.88
58.5	1,297,477	2,632	0.0020	0.9980	97.81
59.5	1,223,978	7,713	0.0063	0.9937	97.62
60.5	1,171,859	31,235	0.0267	0.9733	97.00
61.5	1,076,683		0.0000	1.0000	94.42
62.5	1,035,750	134	0.0001	0.9999	94.42
63.5	918,006	96	0.0001	0.9999	94.40
64.5	831,716		0.0000	1.0000	94.39
65.5	802,289	209	0.0003	0.9997	94.39
66.5	776,717		0.0000	1.0000	94.37
67.5	700,791		0.0000	1.0000	94.37
68.5	676,302		0.0000	1.0000	94.37
69.5	639,996	746	0.0012	0.9988	94.37
70.5	619,569		0.0000	1.0000	94.26
71.5	598,427		0.0000	1.0000	94.26
72.5	587,891	65	0.0001	0.9999	94.26
73.5	553,816	50	0.0001	0.9999	94.25
74.5	522,989	104	0.0002	0.9998	94.24
75.5	515,868		0.0000	1.0000	94.22
76.5	512,181		0.0000	1.0000	94.22
77.5	509,791		0.0000	1.0000	94.22
78.5	500,377		0.0000	1.0000	94.22

PLACEMENT BAND 1874-2018

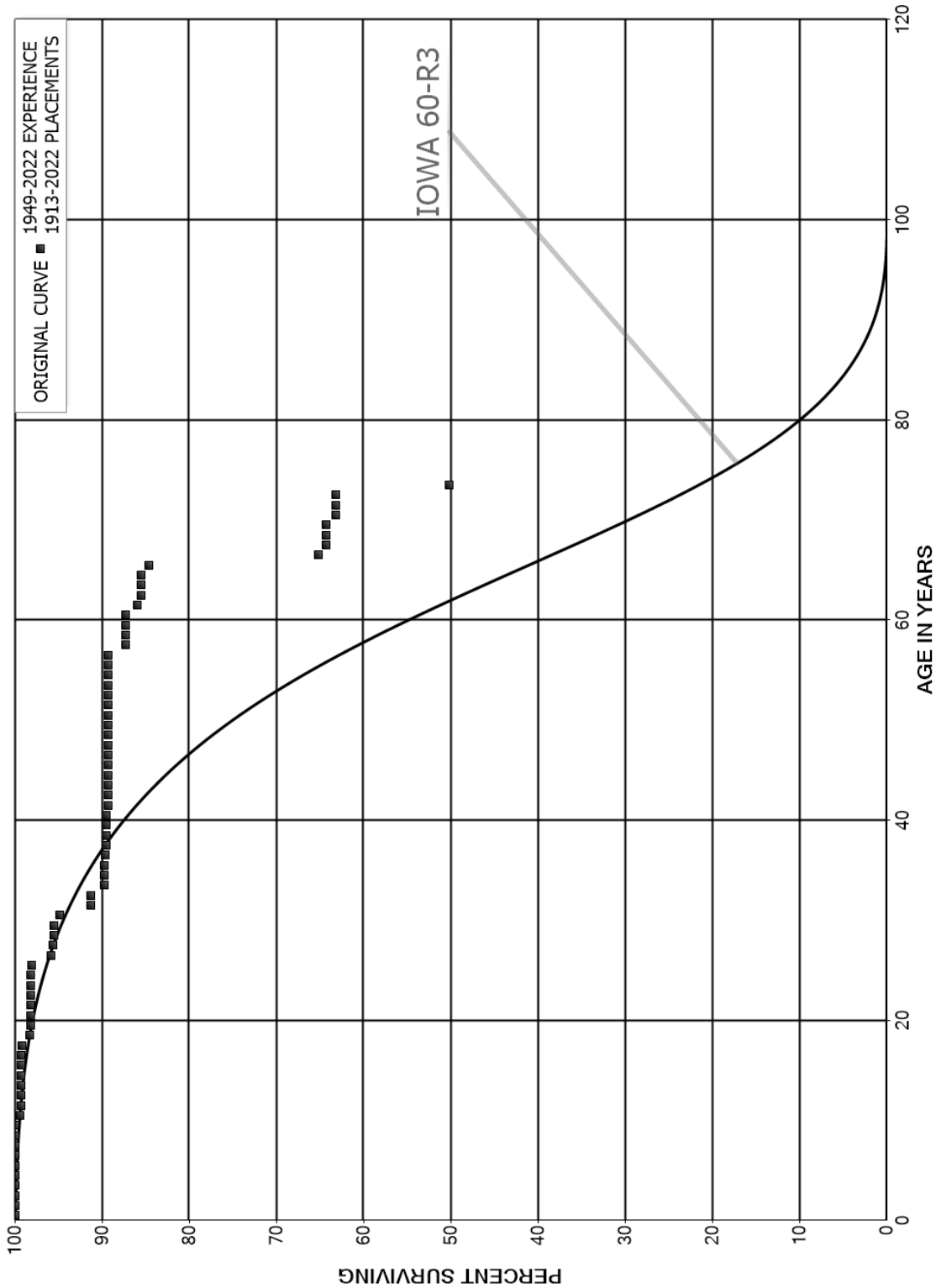
EXPERIENCE BAND 1940-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	492,584	19	0.0000	1.0000	94.22
80.5	480,354		0.0000	1.0000	94.22
81.5	462,345		0.0000	1.0000	94.22
82.5	455,637		0.0000	1.0000	94.22
83.5	446,425		0.0000	1.0000	94.22
84.5	444,882		0.0000	1.0000	94.22
85.5	441,687		0.0000	1.0000	94.22
86.5	438,788		0.0000	1.0000	94.22
87.5	428,238		0.0000	1.0000	94.22
88.5	428,011		0.0000	1.0000	94.22
89.5	426,332		0.0000	1.0000	94.22
90.5	425,355		0.0000	1.0000	94.22
91.5	423,590		0.0000	1.0000	94.22
92.5	417,995		0.0000	1.0000	94.22
93.5	415,141		0.0000	1.0000	94.22
94.5	414,589		0.0000	1.0000	94.22
95.5	411,298		0.0000	1.0000	94.22
96.5	400,915		0.0000	1.0000	94.22
97.5	391,371		0.0000	1.0000	94.22
98.5	374,207		0.0000	1.0000	94.22
99.5	359,447	19	0.0000	1.0000	94.22
100.5	350,261		0.0000	1.0000	94.22
101.5	337,224		0.0000	1.0000	94.22
102.5	336,813		0.0000	1.0000	94.22
103.5	335,585		0.0000	1.0000	94.22
104.5	318,739		0.0000	1.0000	94.22
105.5	313,331		0.0000	1.0000	94.22
106.5	303,152		0.0000	1.0000	94.22
107.5	286,160		0.0000	1.0000	94.22
108.5	238,872		0.0000	1.0000	94.22
109.5	185,116		0.0000	1.0000	94.22
110.5	170,295		0.0000	1.0000	94.22
111.5	159,259		0.0000	1.0000	94.22
112.5	142,968		0.0000	1.0000	94.22
113.5	129,377		0.0000	1.0000	94.22
114.5	124,411		0.0000	1.0000	94.22
115.5	122,525		0.0000	1.0000	94.22
116.5	109,565		0.0000	1.0000	94.22
117.5	95,627		0.0000	1.0000	94.22
118.5	85,312		0.0000	1.0000	94.22

PLACEMENT BAND 1874-2018

EXPERIENCE BAND 1940-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	68,708		0.0000	1.0000	94.22
120.5	53,776		0.0000	1.0000	94.22
121.5	43,037		0.0000	1.0000	94.22
122.5	34,701		0.0000	1.0000	94.22
123.5	32,693		0.0000	1.0000	94.22
124.5	30,350		0.0000	1.0000	94.22
125.5	27,140		0.0000	1.0000	94.22
126.5	16,970		0.0000	1.0000	94.22
127.5	16,435		0.0000	1.0000	94.22
128.5	15,773		0.0000	1.0000	94.22
129.5	15,104		0.0000	1.0000	94.22
130.5	12,212		0.0000	1.0000	94.22
131.5	10,331		0.0000	1.0000	94.22
132.5	9,494		0.0000	1.0000	94.22
133.5	7,218		0.0000	1.0000	94.22
134.5	6,737		0.0000	1.0000	94.22
135.5	6,385		0.0000	1.0000	94.22
136.5	4,038		0.0000	1.0000	94.22
137.5	4,038		0.0000	1.0000	94.22
138.5	4,038		0.0000	1.0000	94.22
139.5	4,038		0.0000	1.0000	94.22
140.5	4,038		0.0000	1.0000	94.22
141.5	4,038		0.0000	1.0000	94.22
142.5	4,038		0.0000	1.0000	94.22
143.5	4,038		0.0000	1.0000	94.22
144.5	4,038		0.0000	1.0000	94.22
145.5	3,916		0.0000	1.0000	94.22
146.5	3,517		0.0000	1.0000	94.22
147.5	5		0.0000	1.0000	94.22
148.5					94.22



PLACEMENT BAND 1913-2022

EXPERIENCE BAND 1949-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,239,143		0.0000	1.0000	100.00
0.5	4,132,870	367	0.0001	0.9999	100.00
1.5	3,930,770		0.0000	1.0000	99.99
2.5	3,939,959		0.0000	1.0000	99.99
3.5	3,939,412		0.0000	1.0000	99.99
4.5	2,457,552		0.0000	1.0000	99.99
5.5	2,466,688		0.0000	1.0000	99.99
6.5	2,477,207		0.0000	1.0000	99.99
7.5	2,477,140		0.0000	1.0000	99.99
8.5	2,486,133		0.0000	1.0000	99.99
9.5	2,486,133	14,500	0.0058	0.9942	99.99
10.5	2,471,789	3,149	0.0013	0.9987	99.41
11.5	2,483,931		0.0000	1.0000	99.28
12.5	2,481,788		0.0000	1.0000	99.28
13.5	2,276,654		0.0000	1.0000	99.28
14.5	1,681,077		0.0000	1.0000	99.28
15.5	1,297,821	111	0.0001	0.9999	99.28
16.5	1,212,409	1,000	0.0008	0.9992	99.27
17.5	1,217,957	10,484	0.0086	0.9914	99.19
18.5	1,399,715	2,143	0.0015	0.9985	98.34
19.5	1,190,676		0.0000	1.0000	98.19
20.5	1,202,210		0.0000	1.0000	98.19
21.5	1,182,394	144	0.0001	0.9999	98.19
22.5	1,685,883	200	0.0001	0.9999	98.17
23.5	1,180,515	61	0.0001	0.9999	98.16
24.5	1,167,466	1,589	0.0014	0.9986	98.16
25.5	1,147,760	25,156	0.0219	0.9781	98.02
26.5	1,122,109	2,915	0.0026	0.9974	95.88
27.5	1,058,066	1,487	0.0014	0.9986	95.63
28.5	1,061,784		0.0000	1.0000	95.49
29.5	1,060,070	7,172	0.0068	0.9932	95.49
30.5	1,038,626	39,109	0.0377	0.9623	94.85
31.5	947,419		0.0000	1.0000	91.27
32.5	952,954	15,688	0.0165	0.9835	91.27
33.5	929,614		0.0000	1.0000	89.77
34.5	929,614		0.0000	1.0000	89.77
35.5	803,285	1,490	0.0019	0.9981	89.77
36.5	801,795	870	0.0011	0.9989	89.61
37.5	800,925	71	0.0001	0.9999	89.51
38.5	793,940		0.0000	1.0000	89.50

PLACEMENT BAND 1913-2022

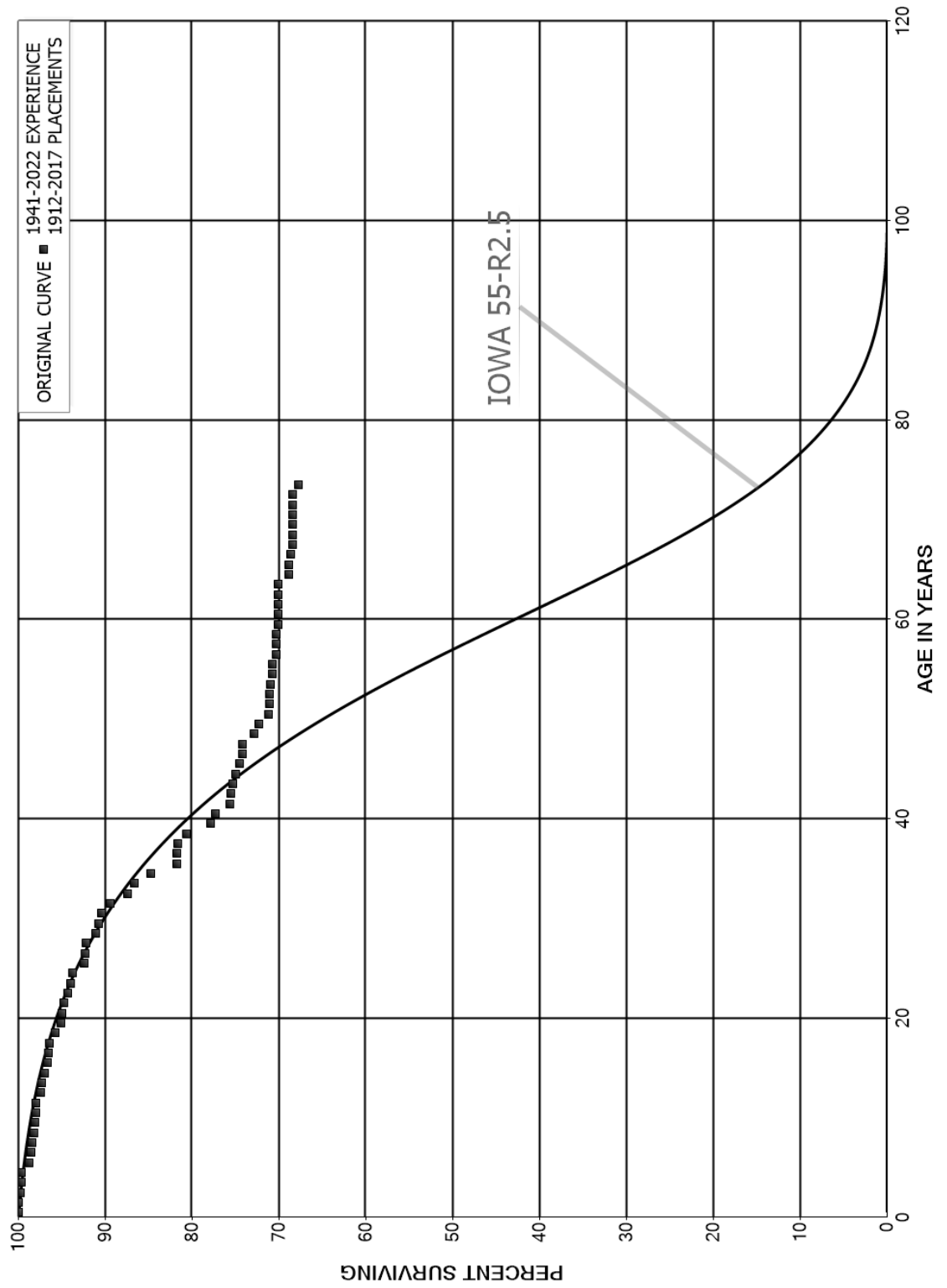
EXPERIENCE BAND 1949-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	782,376		0.0000	1.0000	89.50
40.5	634,258	1,638	0.0026	0.9974	89.50
41.5	582,795		0.0000	1.0000	89.27
42.5	570,743		0.0000	1.0000	89.27
43.5	570,743		0.0000	1.0000	89.27
44.5	84,203		0.0000	1.0000	89.27
45.5	84,203		0.0000	1.0000	89.27
46.5	84,203		0.0000	1.0000	89.27
47.5	84,203		0.0000	1.0000	89.27
48.5	89,731		0.0000	1.0000	89.27
49.5	89,731		0.0000	1.0000	89.27
50.5	89,731		0.0000	1.0000	89.27
51.5	89,731		0.0000	1.0000	89.27
52.5	89,731		0.0000	1.0000	89.27
53.5	89,731		0.0000	1.0000	89.27
54.5	89,731		0.0000	1.0000	89.27
55.5	89,731		0.0000	1.0000	89.27
56.5	89,731	1,978	0.0220	0.9780	89.27
57.5	87,753	37	0.0004	0.9996	87.30
58.5	79,331		0.0000	1.0000	87.27
59.5	63,092		0.0000	1.0000	87.27
60.5	63,092	989	0.0157	0.9843	87.27
61.5	62,103	319	0.0051	0.9949	85.90
62.5	61,784		0.0000	1.0000	85.46
63.5	61,784		0.0000	1.0000	85.46
64.5	61,784	607	0.0098	0.9902	85.46
65.5	61,177	14,089	0.2303	0.7697	84.62
66.5	47,088	584	0.0124	0.9876	65.13
67.5	41,055		0.0000	1.0000	64.32
68.5	38,256		0.0000	1.0000	64.32
69.5	38,256	659	0.0172	0.9828	64.32
70.5	10,048		0.0000	1.0000	63.21
71.5	10,048		0.0000	1.0000	63.21
72.5	10,048	2,067	0.2057	0.7943	63.21
73.5	7,981		0.0000	1.0000	50.21
74.5	5,152		0.0000	1.0000	50.21
75.5	5,152		0.0000	1.0000	50.21
76.5	5,152		0.0000	1.0000	50.21
77.5	5,152		0.0000	1.0000	50.21
78.5	5,152		0.0000	1.0000	50.21

PLACEMENT BAND 1913-2022

EXPERIENCE BAND 1949-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	5,152	80	0.0156	0.9844	50.21
80.5	8,925		0.0000	1.0000	49.43
81.5	5,052		0.0000	1.0000	49.43
82.5	5,052		0.0000	1.0000	49.43
83.5	5,052		0.0000	1.0000	49.43
84.5	5,052		0.0000	1.0000	49.43
85.5	5,052		0.0000	1.0000	49.43
86.5	5,052		0.0000	1.0000	49.43
87.5	5,052	35	0.0070	0.9930	49.43
88.5	5,016		0.0000	1.0000	49.09
89.5	5,016		0.0000	1.0000	49.09
90.5	5,016		0.0000	1.0000	49.09
91.5	5,016		0.0000	1.0000	49.09
92.5	5,016	3,874	0.7723	0.2277	49.09
93.5	182		0.0000	1.0000	11.18
94.5	182		0.0000	1.0000	11.18
95.5	182		0.0000	1.0000	11.18
96.5	182		0.0000	1.0000	11.18
97.5	182		0.0000	1.0000	11.18
98.5	182		0.0000	1.0000	11.18
99.5	182		0.0000	1.0000	11.18
100.5	182		0.0000	1.0000	11.18
101.5	182		0.0000	1.0000	11.18
102.5					11.18



PLACEMENT BAND 1912-2017

EXPERIENCE BAND 1941-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	2,066,018	98	0.0000	1.0000	100.00
0.5	2,070,049	734	0.0004	0.9996	100.00
1.5	2,063,110	4,939	0.0024	0.9976	99.96
2.5	2,078,940	1,880	0.0009	0.9991	99.72
3.5	1,810,907	348	0.0002	0.9998	99.63
4.5	1,810,672	16,680	0.0092	0.9908	99.61
5.5	1,642,820	2,252	0.0014	0.9986	98.69
6.5	1,638,187	3,535	0.0022	0.9978	98.56
7.5	1,636,492	2,092	0.0013	0.9987	98.35
8.5	1,411,428	2,085	0.0015	0.9985	98.22
9.5	1,406,106	1,831	0.0013	0.9987	98.07
10.5	1,400,453	695	0.0005	0.9995	97.95
11.5	1,388,307	7,154	0.0052	0.9948	97.90
12.5	1,265,855	711	0.0006	0.9994	97.39
13.5	1,258,658	5,397	0.0043	0.9957	97.34
14.5	883,701	3,263	0.0037	0.9963	96.92
15.5	880,454	294	0.0003	0.9997	96.56
16.5	856,647	1,564	0.0018	0.9982	96.53
17.5	811,182	5,108	0.0063	0.9937	96.36
18.5	732,962	4,823	0.0066	0.9934	95.75
19.5	610,483	985	0.0016	0.9984	95.12
20.5	602,125	1,322	0.0022	0.9978	94.97
21.5	592,994	2,722	0.0046	0.9954	94.76
22.5	614,350	2,357	0.0038	0.9962	94.32
23.5	538,209	1,238	0.0023	0.9977	93.96
24.5	532,304	7,606	0.0143	0.9857	93.74
25.5	523,326	596	0.0011	0.9989	92.40
26.5	522,248	605	0.0012	0.9988	92.30
27.5	520,666	6,151	0.0118	0.9882	92.19
28.5	509,085	2,070	0.0041	0.9959	91.10
29.5	421,088	1,488	0.0035	0.9965	90.73
30.5	431,510	5,047	0.0117	0.9883	90.41
31.5	425,458	9,416	0.0221	0.9779	89.35
32.5	415,925	3,549	0.0085	0.9915	87.38
33.5	405,138	9,109	0.0225	0.9775	86.63
34.5	396,031	13,722	0.0346	0.9654	84.68
35.5	353,258	276	0.0008	0.9992	81.75
36.5	360,401	273	0.0008	0.9992	81.69
37.5	337,155	3,979	0.0118	0.9882	81.62
38.5	291,572	10,054	0.0345	0.9655	80.66

PLACEMENT BAND 1912-2017

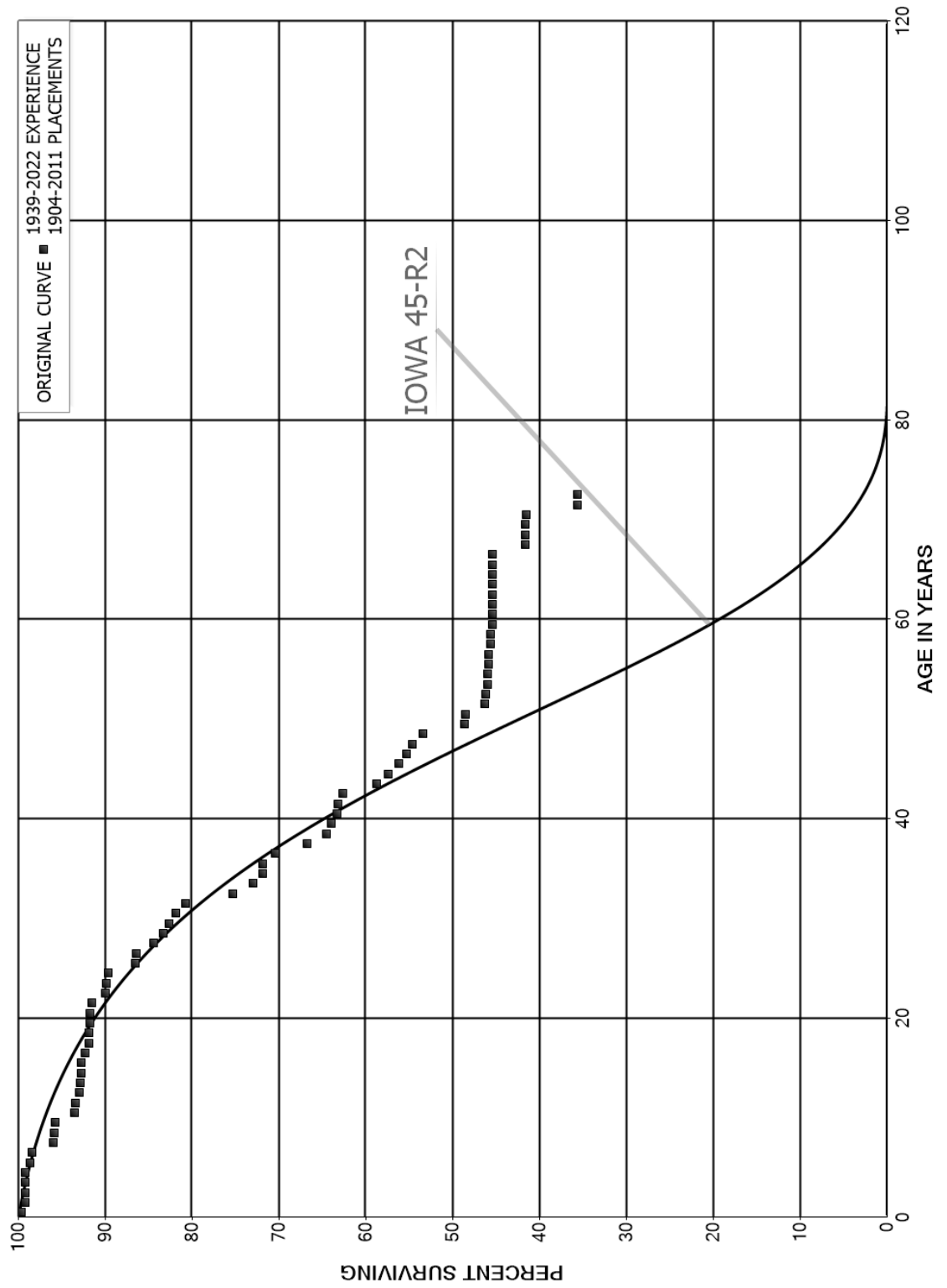
EXPERIENCE BAND 1941-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	279,196	1,961	0.0070	0.9930	77.88
40.5	277,235	6,279	0.0226	0.9774	77.33
41.5	244,251	207	0.0008	0.9992	75.58
42.5	244,006	651	0.0027	0.9973	75.52
43.5	232,033	1,094	0.0047	0.9953	75.32
44.5	198,848	1,314	0.0066	0.9934	74.96
45.5	197,320	808	0.0041	0.9959	74.47
46.5	195,392	51	0.0003	0.9997	74.16
47.5	194,705	3,408	0.0175	0.9825	74.14
48.5	189,306	1,491	0.0079	0.9921	72.84
49.5	171,428	2,703	0.0158	0.9842	72.27
50.5	168,725	264	0.0016	0.9984	71.13
51.5	159,970		0.0000	1.0000	71.02
52.5	158,612	80	0.0005	0.9995	71.02
53.5	155,057	558	0.0036	0.9964	70.98
54.5	142,863		0.0000	1.0000	70.73
55.5	142,656	818	0.0057	0.9943	70.73
56.5	137,614	154	0.0011	0.9989	70.32
57.5	137,101		0.0000	1.0000	70.24
58.5	122,353	225	0.0018	0.9982	70.24
59.5	116,315	131	0.0011	0.9989	70.11
60.5	115,463	20	0.0002	0.9998	70.03
61.5	110,540		0.0000	1.0000	70.02
62.5	102,777		0.0000	1.0000	70.02
63.5	96,513	1,682	0.0174	0.9826	70.02
64.5	94,058		0.0000	1.0000	68.80
65.5	93,248	226	0.0024	0.9976	68.80
66.5	89,067	269	0.0030	0.9970	68.64
67.5	85,509		0.0000	1.0000	68.43
68.5	80,832		0.0000	1.0000	68.43
69.5	67,248		0.0000	1.0000	68.43
70.5	57,453		0.0000	1.0000	68.43
71.5	45,054		0.0000	1.0000	68.43
72.5	36,137	379	0.0105	0.9895	68.43
73.5	14,123		0.0000	1.0000	67.71
74.5	9,632		0.0000	1.0000	67.71
75.5	9,165		0.0000	1.0000	67.71
76.5	9,132		0.0000	1.0000	67.71
77.5	9,132		0.0000	1.0000	67.71
78.5	9,132		0.0000	1.0000	67.71

PLACEMENT BAND 1912-2017

EXPERIENCE BAND 1941-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	9,132		0.0000	1.0000	67.71
80.5	4,564		0.0000	1.0000	67.71
81.5	4,564		0.0000	1.0000	67.71
82.5	4,564	67	0.0146	0.9854	67.71
83.5	4,498		0.0000	1.0000	66.72
84.5	4,403		0.0000	1.0000	66.72
85.5	4,403		0.0000	1.0000	66.72
86.5	4,189		0.0000	1.0000	66.72
87.5	4,189		0.0000	1.0000	66.72
88.5	4,189		0.0000	1.0000	66.72
89.5	3,881		0.0000	1.0000	66.72
90.5	3,881		0.0000	1.0000	66.72
91.5	3,881	1,152	0.2970	0.7030	66.72
92.5	2,728		0.0000	1.0000	46.91
93.5	2,728		0.0000	1.0000	46.91
94.5	2,728		0.0000	1.0000	46.91
95.5	2,728		0.0000	1.0000	46.91
96.5	2,054		0.0000	1.0000	46.91
97.5	2,054		0.0000	1.0000	46.91
98.5	2,054		0.0000	1.0000	46.91
99.5	2,054		0.0000	1.0000	46.91
100.5	2,054		0.0000	1.0000	46.91
101.5	2,039		0.0000	1.0000	46.91
102.5	2,039		0.0000	1.0000	46.91
103.5	2,039		0.0000	1.0000	46.91
104.5	2,039		0.0000	1.0000	46.91
105.5	2,039		0.0000	1.0000	46.91
106.5	2,039		0.0000	1.0000	46.91
107.5					46.91



PLACEMENT BAND 1904-2011

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	192,040	740	0.0039	0.9961	100.00
0.5	191,939	809	0.0042	0.9958	99.61
1.5	203,258		0.0000	1.0000	99.19
2.5	199,117	47	0.0002	0.9998	99.19
3.5	199,012	34	0.0002	0.9998	99.17
4.5	198,018	1,035	0.0052	0.9948	99.15
5.5	197,203	458	0.0023	0.9977	98.64
6.5	196,883	4,994	0.0254	0.9746	98.41
7.5	205,554	151	0.0007	0.9993	95.91
8.5	204,509	150	0.0007	0.9993	95.84
9.5	206,443	4,841	0.0235	0.9765	95.77
10.5	209,832	278	0.0013	0.9987	93.52
11.5	203,306	1,030	0.0051	0.9949	93.40
12.5	204,165	156	0.0008	0.9992	92.93
13.5	208,060	280	0.0013	0.9987	92.86
14.5	207,780	128	0.0006	0.9994	92.73
15.5	208,206	974	0.0047	0.9953	92.67
16.5	218,774	986	0.0045	0.9955	92.24
17.5	217,565		0.0000	1.0000	91.82
18.5	220,033	210	0.0010	0.9990	91.82
19.5	213,145	74	0.0003	0.9997	91.74
20.5	210,902	496	0.0024	0.9976	91.71
21.5	210,406	3,676	0.0175	0.9825	91.49
22.5	200,416	134	0.0007	0.9993	89.89
23.5	203,094	609	0.0030	0.9970	89.83
24.5	200,771	6,800	0.0339	0.9661	89.56
25.5	193,577	417	0.0022	0.9978	86.53
26.5	188,899	4,149	0.0220	0.9780	86.34
27.5	190,357	2,597	0.0136	0.9864	84.45
28.5	187,332	1,628	0.0087	0.9913	83.29
29.5	180,076	1,491	0.0083	0.9917	82.57
30.5	172,025	2,437	0.0142	0.9858	81.89
31.5	165,328	11,043	0.0668	0.9332	80.73
32.5	150,156	4,782	0.0318	0.9682	75.33
33.5	139,104	2,124	0.0153	0.9847	72.94
34.5	137,127		0.0000	1.0000	71.82
35.5	137,074	2,715	0.0198	0.9802	71.82
36.5	129,942	6,870	0.0529	0.9471	70.40
37.5	122,836	4,094	0.0333	0.9667	66.68
38.5	105,733	737	0.0070	0.9930	64.46

PLACEMENT BAND 1904-2011

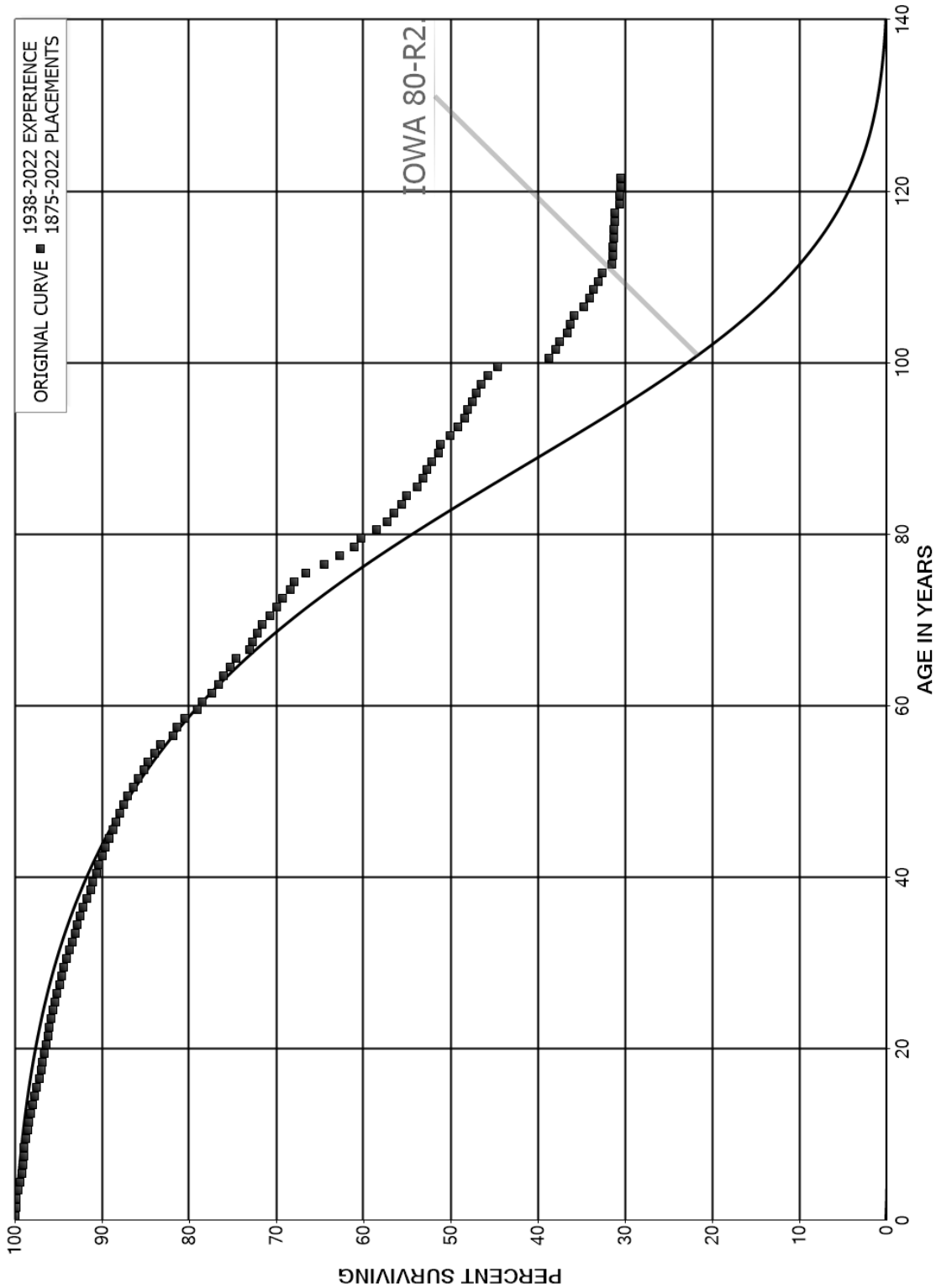
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	99,285	1,163	0.0117	0.9883	64.01
40.5	92,848	123	0.0013	0.9987	63.26
41.5	78,788	745	0.0095	0.9905	63.17
42.5	71,931	4,394	0.0611	0.9389	62.58
43.5	67,536	1,563	0.0231	0.9769	58.75
44.5	68,416	1,409	0.0206	0.9794	57.39
45.5	67,007	1,140	0.0170	0.9830	56.21
46.5	65,867	807	0.0123	0.9877	55.26
47.5	65,060	1,351	0.0208	0.9792	54.58
48.5	63,404	5,772	0.0910	0.9090	53.44
49.5	57,632	64	0.0011	0.9989	48.58
50.5	57,568	2,613	0.0454	0.9546	48.53
51.5	49,141	157	0.0032	0.9968	46.32
52.5	48,564	202	0.0042	0.9958	46.17
53.5	37,692		0.0000	1.0000	45.98
54.5	37,692	100	0.0027	0.9973	45.98
55.5	37,591		0.0000	1.0000	45.86
56.5	37,591	229	0.0061	0.9939	45.86
57.5	37,363		0.0000	1.0000	45.58
58.5	36,414	135	0.0037	0.9963	45.58
59.5	36,279		0.0000	1.0000	45.41
60.5	36,279		0.0000	1.0000	45.41
61.5	33,931	51	0.0015	0.9985	45.41
62.5	33,880		0.0000	1.0000	45.34
63.5	33,152		0.0000	1.0000	45.34
64.5	30,013		0.0000	1.0000	45.34
65.5	30,013		0.0000	1.0000	45.34
66.5	29,943	2,431	0.0812	0.9188	45.34
67.5	25,824		0.0000	1.0000	41.66
68.5	23,320		0.0000	1.0000	41.66
69.5	20,569	92	0.0045	0.9955	41.66
70.5	15,112	2,133	0.1412	0.8588	41.48
71.5	11,957		0.0000	1.0000	35.62
72.5	8,432		0.0000	1.0000	35.62
73.5	8,015		0.0000	1.0000	35.62
74.5	8,015		0.0000	1.0000	35.62
75.5	7,486		0.0000	1.0000	35.62
76.5	7,486		0.0000	1.0000	35.62
77.5	7,486		0.0000	1.0000	35.62
78.5	7,486		0.0000	1.0000	35.62

PLACEMENT BAND 1904-2011

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	7,486		0.0000	1.0000	35.62
80.5	7,486		0.0000	1.0000	35.62
81.5	4,554		0.0000	1.0000	35.62
82.5	4,554		0.0000	1.0000	35.62
83.5	4,535		0.0000	1.0000	35.62
84.5	4,535		0.0000	1.0000	35.62
85.5	4,297		0.0000	1.0000	35.62
86.5	4,297		0.0000	1.0000	35.62
87.5	4,297		0.0000	1.0000	35.62
88.5	4,297		0.0000	1.0000	35.62
89.5	4,297		0.0000	1.0000	35.62
90.5	4,202		0.0000	1.0000	35.62
91.5	4,202		0.0000	1.0000	35.62
92.5	3,908		0.0000	1.0000	35.62
93.5	3,646		0.0000	1.0000	35.62
94.5	3,646		0.0000	1.0000	35.62
95.5	3,574		0.0000	1.0000	35.62
96.5	3,574		0.0000	1.0000	35.62
97.5	3,574		0.0000	1.0000	35.62
98.5	3,574		0.0000	1.0000	35.62
99.5	3,170		0.0000	1.0000	35.62
100.5	3,170		0.0000	1.0000	35.62
101.5	3,170		0.0000	1.0000	35.62
102.5	98		0.0000	1.0000	35.62
103.5	98		0.0000	1.0000	35.62
104.5	98		0.0000	1.0000	35.62
105.5	98		0.0000	1.0000	35.62
106.5	98		0.0000	1.0000	35.62
107.5	98		0.0000	1.0000	35.62
108.5	98		0.0000	1.0000	35.62
109.5	98		0.0000	1.0000	35.62
110.5	98		0.0000	1.0000	35.62
111.5	98		0.0000	1.0000	35.62
112.5	98		0.0000	1.0000	35.62
113.5	98		0.0000	1.0000	35.62
114.5	98		0.0000	1.0000	35.62
115.5	98		0.0000	1.0000	35.62
116.5	98		0.0000	1.0000	35.62
117.5	98		0.0000	1.0000	35.62
118.5					35.62



PLACEMENT BAND 1875-2022

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	354,178,197	116,799	0.0003	0.9997	100.00
0.5	305,283,804	258,921	0.0008	0.9992	99.97
1.5	301,364,168	246,619	0.0008	0.9992	99.88
2.5	294,289,575	530,911	0.0018	0.9982	99.80
3.5	277,814,250	742,402	0.0027	0.9973	99.62
4.5	271,267,997	383,029	0.0014	0.9986	99.35
5.5	255,610,895	262,328	0.0010	0.9990	99.21
6.5	248,538,672	262,512	0.0011	0.9989	99.11
7.5	238,679,050	264,772	0.0011	0.9989	99.01
8.5	230,327,605	385,699	0.0017	0.9983	98.90
9.5	213,768,828	374,508	0.0018	0.9982	98.73
10.5	203,143,968	360,084	0.0018	0.9982	98.56
11.5	191,409,155	406,861	0.0021	0.9979	98.38
12.5	182,327,567	509,036	0.0028	0.9972	98.18
13.5	176,538,378	259,389	0.0015	0.9985	97.90
14.5	169,496,770	500,293	0.0030	0.9970	97.76
15.5	161,766,562	499,680	0.0031	0.9969	97.47
16.5	153,385,192	290,623	0.0019	0.9981	97.17
17.5	143,444,608	295,793	0.0021	0.9979	96.98
18.5	140,322,678	269,602	0.0019	0.9981	96.78
19.5	136,783,054	310,653	0.0023	0.9977	96.60
20.5	132,505,228	206,734	0.0016	0.9984	96.38
21.5	131,070,352	267,323	0.0020	0.9980	96.23
22.5	130,930,006	225,348	0.0017	0.9983	96.03
23.5	126,605,370	316,684	0.0025	0.9975	95.87
24.5	119,524,825	331,105	0.0028	0.9972	95.63
25.5	113,134,219	250,634	0.0022	0.9978	95.36
26.5	110,502,989	374,007	0.0034	0.9966	95.15
27.5	107,660,838	225,309	0.0021	0.9979	94.83
28.5	104,409,853	292,107	0.0028	0.9972	94.63
29.5	100,694,395	336,168	0.0033	0.9967	94.37
30.5	98,206,722	365,892	0.0037	0.9963	94.05
31.5	92,566,003	275,513	0.0030	0.9970	93.70
32.5	84,353,040	348,282	0.0041	0.9959	93.42
33.5	82,113,223	205,979	0.0025	0.9975	93.04
34.5	80,655,387	288,606	0.0036	0.9964	92.80
35.5	76,698,468	286,315	0.0037	0.9963	92.47
36.5	74,622,403	295,163	0.0040	0.9960	92.12
37.5	72,160,631	397,908	0.0055	0.9945	91.76
38.5	68,388,888	182,807	0.0027	0.9973	91.25

PLACEMENT BAND 1875-2022

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	67,082,285	271,794	0.0041	0.9959	91.01
40.5	64,882,878	183,209	0.0028	0.9972	90.64
41.5	62,138,092	288,121	0.0046	0.9954	90.39
42.5	61,197,645	262,606	0.0043	0.9957	89.97
43.5	58,386,789	232,717	0.0040	0.9960	89.58
44.5	53,227,029	292,242	0.0055	0.9945	89.22
45.5	50,338,703	171,239	0.0034	0.9966	88.73
46.5	49,506,357	255,306	0.0052	0.9948	88.43
47.5	47,617,147	243,342	0.0051	0.9949	87.98
48.5	44,772,971	253,173	0.0057	0.9943	87.53
49.5	42,909,706	298,957	0.0070	0.9930	87.03
50.5	40,233,077	266,787	0.0066	0.9934	86.42
51.5	39,272,927	312,371	0.0080	0.9920	85.85
52.5	38,007,335	209,858	0.0055	0.9945	85.17
53.5	35,749,611	308,425	0.0086	0.9914	84.70
54.5	32,851,892	256,247	0.0078	0.9922	83.97
55.5	28,313,974	503,773	0.0178	0.9822	83.31
56.5	26,466,274	145,689	0.0055	0.9945	81.83
57.5	25,469,894	287,171	0.0113	0.9887	81.38
58.5	23,353,367	413,151	0.0177	0.9823	80.46
59.5	21,107,280	140,364	0.0067	0.9933	79.04
60.5	19,187,514	270,863	0.0141	0.9859	78.51
61.5	16,667,528	159,927	0.0096	0.9904	77.40
62.5	15,778,753	116,394	0.0074	0.9926	76.66
63.5	13,729,554	144,652	0.0105	0.9895	76.10
64.5	12,675,998	113,887	0.0090	0.9910	75.30
65.5	11,149,985	225,441	0.0202	0.9798	74.62
66.5	10,454,820	48,076	0.0046	0.9954	73.11
67.5	9,417,293	72,667	0.0077	0.9923	72.77
68.5	8,652,595	77,030	0.0089	0.9911	72.21
69.5	7,906,699	90,119	0.0114	0.9886	71.57
70.5	6,562,766	79,435	0.0121	0.9879	70.75
71.5	6,252,191	50,531	0.0081	0.9919	69.90
72.5	5,937,760	80,516	0.0136	0.9864	69.33
73.5	4,621,267	33,910	0.0073	0.9927	68.39
74.5	3,936,385	71,734	0.0182	0.9818	67.89
75.5	3,819,705	120,033	0.0314	0.9686	66.65
76.5	3,644,495	104,193	0.0286	0.9714	64.56
77.5	3,498,922	91,107	0.0260	0.9740	62.71
78.5	3,265,067	42,078	0.0129	0.9871	61.08

PLACEMENT BAND 1875-2022

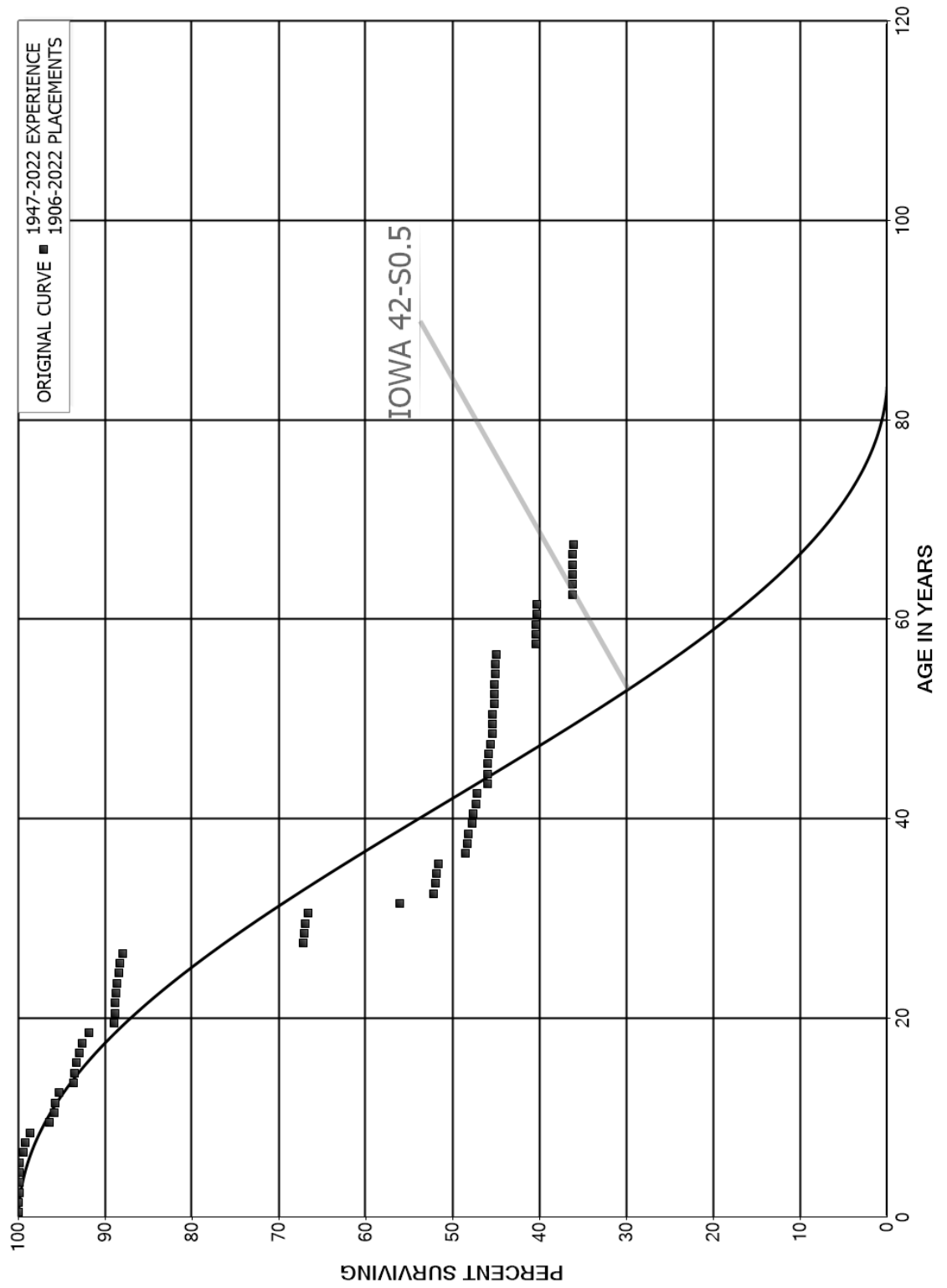
EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	3,184,107	92,113	0.0289	0.9711	60.29
80.5	3,008,531	64,129	0.0213	0.9787	58.55
81.5	2,844,594	37,237	0.0131	0.9869	57.30
82.5	2,879,162	47,900	0.0166	0.9834	56.55
83.5	2,629,404	25,419	0.0097	0.9903	55.61
84.5	2,545,313	57,845	0.0227	0.9773	55.07
85.5	2,427,193	29,570	0.0122	0.9878	53.82
86.5	2,362,934	19,614	0.0083	0.9917	53.16
87.5	2,277,319	23,116	0.0102	0.9898	52.72
88.5	2,245,416	32,467	0.0145	0.9855	52.19
89.5	2,206,101	13,103	0.0059	0.9941	51.43
90.5	2,192,223	47,083	0.0215	0.9785	51.13
91.5	2,088,669	36,032	0.0173	0.9827	50.03
92.5	1,971,732	31,509	0.0160	0.9840	49.17
93.5	1,901,192	11,958	0.0063	0.9937	48.38
94.5	1,859,920	22,334	0.0120	0.9880	48.08
95.5	1,791,115	15,983	0.0089	0.9911	47.50
96.5	1,635,553	20,519	0.0125	0.9875	47.08
97.5	1,474,456	25,193	0.0171	0.9829	46.49
98.5	1,370,586	30,655	0.0224	0.9776	45.69
99.5	1,396,795	186,332	0.1334	0.8666	44.67
100.5	1,196,572	22,165	0.0185	0.9815	38.71
101.5	1,072,206	12,722	0.0119	0.9881	37.99
102.5	1,055,777	26,199	0.0248	0.9752	37.54
103.5	1,010,074	9,511	0.0094	0.9906	36.61
104.5	998,279	13,130	0.0132	0.9868	36.27
105.5	859,786	25,628	0.0298	0.9702	35.79
106.5	809,916	15,057	0.0186	0.9814	34.72
107.5	769,626	9,531	0.0124	0.9876	34.08
108.5	703,529	11,844	0.0168	0.9832	33.65
109.5	623,854	8,909	0.0143	0.9857	33.09
110.5	603,737	20,264	0.0336	0.9664	32.62
111.5	565,247	1,742	0.0031	0.9969	31.52
112.5	554,985	1,282	0.0023	0.9977	31.42
113.5	532,203	347	0.0007	0.9993	31.35
114.5	517,360	294	0.0006	0.9994	31.33
115.5	512,465	2,347	0.0046	0.9954	31.31
116.5	437,377	192	0.0004	0.9996	31.17
117.5	402,184	6,611	0.0164	0.9836	31.16
118.5	395,101		0.0000	1.0000	30.64

PLACEMENT BAND 1875-2022

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	374,481	2,180	0.0058	0.9942	30.64
120.5	218,807		0.0000	1.0000	30.47
121.5	189,798	1,552	0.0082	0.9918	30.47
122.5	109,273		0.0000	1.0000	30.22
123.5	89,030	48	0.0005	0.9995	30.22
124.5	88,981		0.0000	1.0000	30.20
125.5	79,548		0.0000	1.0000	30.20
126.5	77,472		0.0000	1.0000	30.20
127.5	77,472	23	0.0003	0.9997	30.20
128.5	76,022		0.0000	1.0000	30.19
129.5	61,387		0.0000	1.0000	30.19
130.5	53,163		0.0000	1.0000	30.19
131.5	41,604	4,218	0.1014	0.8986	30.19
132.5	29,832		0.0000	1.0000	27.13
133.5	28,614		0.0000	1.0000	27.13
134.5	23,563		0.0000	1.0000	27.13
135.5	10,580		0.0000	1.0000	27.13
136.5	8,543		0.0000	1.0000	27.13
137.5	8,543		0.0000	1.0000	27.13
138.5	8,543		0.0000	1.0000	27.13
139.5	8,543		0.0000	1.0000	27.13
140.5	8,543		0.0000	1.0000	27.13
141.5	8,543	453	0.0530	0.9470	27.13
142.5	8,090		0.0000	1.0000	25.69
143.5	8,090		0.0000	1.0000	25.69
144.5	8,090		0.0000	1.0000	25.69
145.5	8,090		0.0000	1.0000	25.69
146.5	8,090		0.0000	1.0000	25.69
147.5					25.69



PLACEMENT BAND 1906-2022

EXPERIENCE BAND 1947-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	24,765,218		0.0000	1.0000	100.00
0.5	22,501,083	23,438	0.0010	0.9990	100.00
1.5	22,545,112	7,385	0.0003	0.9997	99.90
2.5	21,295,019	10,509	0.0005	0.9995	99.86
3.5	19,048,361	2,859	0.0002	0.9998	99.81
4.5	19,411,782	2,282	0.0001	0.9999	99.80
5.5	19,021,424	79,572	0.0042	0.9958	99.79
6.5	17,484,889	28,906	0.0017	0.9983	99.37
7.5	18,589,131	112,878	0.0061	0.9939	99.21
8.5	15,467,936	351,613	0.0227	0.9773	98.60
9.5	14,973,442	84,260	0.0056	0.9944	96.36
10.5	14,277,907	14,192	0.0010	0.9990	95.82
11.5	13,464,719	59,184	0.0044	0.9956	95.72
12.5	13,274,842	232,708	0.0175	0.9825	95.30
13.5	11,118,000	11,593	0.0010	0.9990	93.63
14.5	9,058,813	24,666	0.0027	0.9973	93.54
15.5	6,842,022	22,934	0.0034	0.9966	93.28
16.5	6,565,250	21,031	0.0032	0.9968	92.97
17.5	4,833,717	45,302	0.0094	0.9906	92.67
18.5	6,210,781	193,026	0.0311	0.9689	91.80
19.5	5,682,392	3,880	0.0007	0.9993	88.95
20.5	5,662,848	6,558	0.0012	0.9988	88.89
21.5	5,182,606	3,266	0.0006	0.9994	88.78
22.5	7,936,367	9,864	0.0012	0.9988	88.73
23.5	7,925,935	15,955	0.0020	0.9980	88.62
24.5	7,850,191	10,329	0.0013	0.9987	88.44
25.5	7,810,910	34,112	0.0044	0.9956	88.32
26.5	7,447,035	1,759,570	0.2363	0.7637	87.94
27.5	5,421,707	10,216	0.0019	0.9981	67.16
28.5	4,855,414	4,837	0.0010	0.9990	67.03
29.5	4,190,391	19,732	0.0047	0.9953	66.97
30.5	4,679,290	742,904	0.1588	0.8412	66.65
31.5	3,996,630	281,068	0.0703	0.9297	56.07
32.5	2,397,080	7,061	0.0029	0.9971	52.13
33.5	1,120,079	1,799	0.0016	0.9984	51.97
34.5	2,503,353	14,055	0.0056	0.9944	51.89
35.5	2,474,794	146,863	0.0593	0.9407	51.60
36.5	2,309,858	13,348	0.0058	0.9942	48.54
37.5	2,282,721	2,854	0.0013	0.9987	48.26
38.5	2,259,169	20,837	0.0092	0.9908	48.20

PLACEMENT BAND 1906-2022

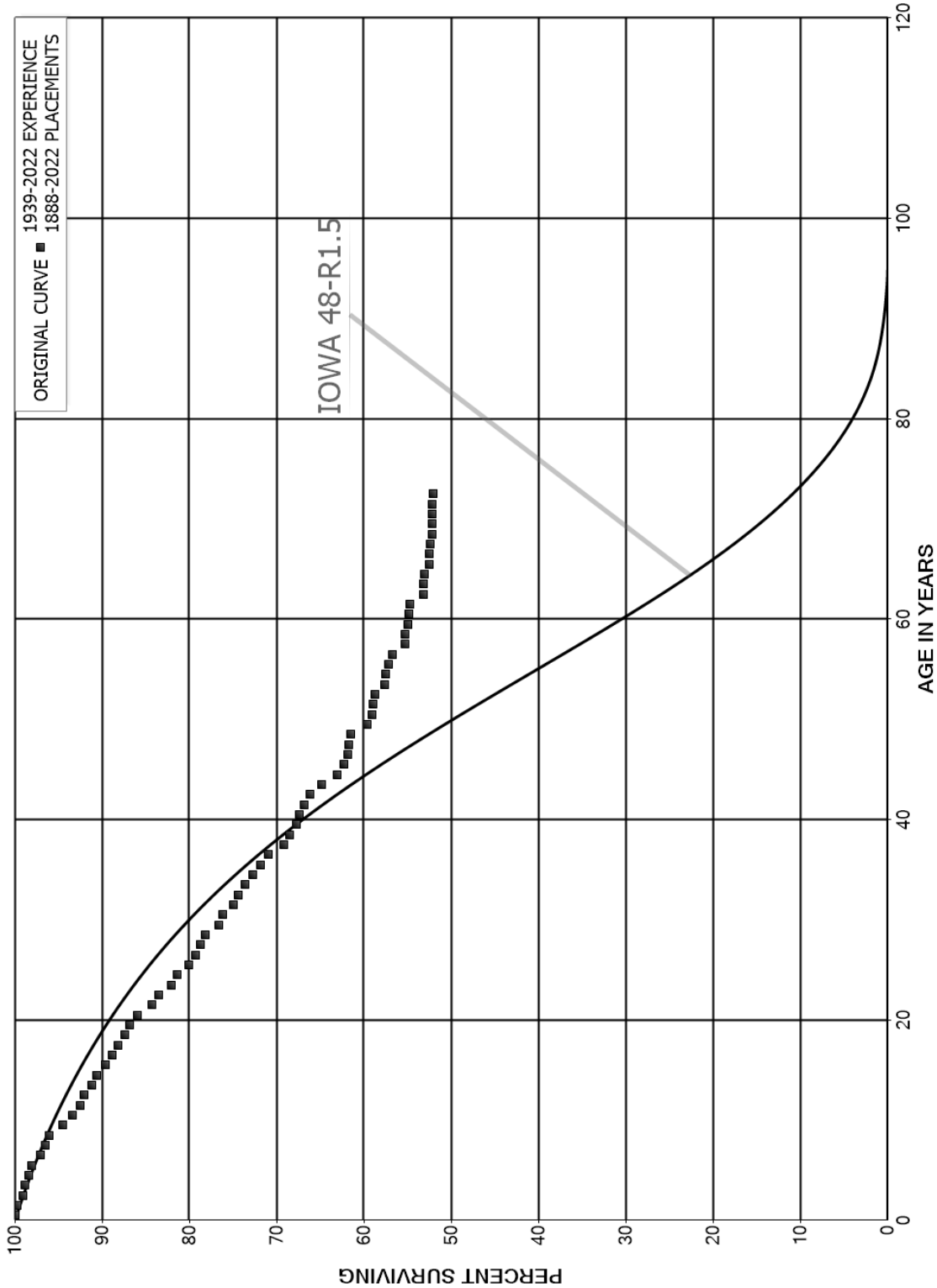
EXPERIENCE BAND 1947-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	2,203,436	6,743	0.0031	0.9969	47.75
40.5	1,839,562	12,945	0.0070	0.9930	47.60
41.5	1,685,228	5,318	0.0032	0.9968	47.27
42.5	1,645,566	40,140	0.0244	0.9756	47.12
43.5	1,521,367	391	0.0003	0.9997	45.97
44.5	260,743	301	0.0012	0.9988	45.96
45.5	261,871	258	0.0010	0.9990	45.91
46.5	259,294	1,344	0.0052	0.9948	45.86
47.5	230,388	914	0.0040	0.9960	45.62
48.5	224,210	37	0.0002	0.9998	45.44
49.5	229,919	61	0.0003	0.9997	45.43
50.5	248,156	1,647	0.0066	0.9934	45.42
51.5	234,515		0.0000	1.0000	45.12
52.5	234,896		0.0000	1.0000	45.12
53.5	234,984	400	0.0017	0.9983	45.12
54.5	233,498	75	0.0003	0.9997	45.04
55.5	232,931	200	0.0009	0.9991	45.03
56.5	232,658	23,733	0.1020	0.8980	44.99
57.5	208,958	85	0.0004	0.9996	40.40
58.5	165,045	61	0.0004	0.9996	40.39
59.5	137,408	133	0.0010	0.9990	40.37
60.5	107,313	24	0.0002	0.9998	40.33
61.5	107,046	11,060	0.1033	0.8967	40.32
62.5	95,215		0.0000	1.0000	36.16
63.5	93,524		0.0000	1.0000	36.16
64.5	93,524		0.0000	1.0000	36.16
65.5	93,467		0.0000	1.0000	36.16
66.5	92,255	180	0.0020	0.9980	36.16
67.5	44,893	754	0.0168	0.9832	36.09
68.5	30,649		0.0000	1.0000	35.48
69.5	30,649		0.0000	1.0000	35.48
70.5	3,664	327	0.0893	0.9107	35.48
71.5	3,336	85	0.0254	0.9746	32.31
72.5	1,857		0.0000	1.0000	31.49
73.5	1,857		0.0000	1.0000	31.49
74.5	1,657		0.0000	1.0000	31.49
75.5	1,657		0.0000	1.0000	31.49
76.5	1,657		0.0000	1.0000	31.49
77.5	1,657		0.0000	1.0000	31.49
78.5	1,657	170	0.1026	0.8974	31.49

PLACEMENT BAND 1906-2022

EXPERIENCE BAND 1947-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	1,487		0.0000	1.0000	28.26
80.5	1,997		0.0000	1.0000	28.26
81.5	1,997		0.0000	1.0000	28.26
82.5	1,997		0.0000	1.0000	28.26
83.5	1,997		0.0000	1.0000	28.26
84.5	1,323		0.0000	1.0000	28.26
85.5	1,323		0.0000	1.0000	28.26
86.5	1,199		0.0000	1.0000	28.26
87.5	1,199		0.0000	1.0000	28.26
88.5	1,199		0.0000	1.0000	28.26
89.5	1,199		0.0000	1.0000	28.26
90.5	599		0.0000	1.0000	28.26
91.5					28.26
92.5	599		0.0000		
93.5	599		0.0000		
94.5	599		0.0000		
95.5	599		0.0000		
96.5	599		0.0000		
97.5	599		0.0000		
98.5	599		0.0000		
99.5	599		0.0000		
100.5	599		0.0000		
101.5	599		0.0000		
102.5					



PLACEMENT BAND 1888-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	45,310,539	13,310	0.0003	0.9997	100.00
0.5	43,462,227	121,169	0.0028	0.9972	99.97
1.5	43,386,908	273,756	0.0063	0.9937	99.69
2.5	43,188,977	108,471	0.0025	0.9975	99.06
3.5	42,512,775	167,709	0.0039	0.9961	98.81
4.5	41,790,353	160,500	0.0038	0.9962	98.42
5.5	30,686,446	314,714	0.0103	0.9897	98.05
6.5	28,418,017	164,472	0.0058	0.9942	97.04
7.5	26,286,209	108,226	0.0041	0.9959	96.48
8.5	24,592,334	409,219	0.0166	0.9834	96.08
9.5	22,996,343	269,577	0.0117	0.9883	94.48
10.5	20,285,025	198,303	0.0098	0.9902	93.38
11.5	18,566,359	84,800	0.0046	0.9954	92.46
12.5	17,251,869	158,950	0.0092	0.9908	92.04
13.5	16,581,216	110,017	0.0066	0.9934	91.19
14.5	15,947,367	165,629	0.0104	0.9896	90.59
15.5	14,621,845	138,778	0.0095	0.9905	89.65
16.5	13,270,244	96,314	0.0073	0.9927	88.80
17.5	12,997,023	118,103	0.0091	0.9909	88.15
18.5	11,301,384	63,532	0.0056	0.9944	87.35
19.5	10,502,498	115,611	0.0110	0.9890	86.86
20.5	9,248,582	171,593	0.0186	0.9814	85.90
21.5	8,723,666	88,583	0.0102	0.9898	84.31
22.5	8,513,146	142,998	0.0168	0.9832	83.45
23.5	7,911,581	63,158	0.0080	0.9920	82.05
24.5	7,108,244	111,773	0.0157	0.9843	81.40
25.5	6,369,968	66,697	0.0105	0.9895	80.12
26.5	6,308,264	39,733	0.0063	0.9937	79.28
27.5	5,966,673	46,343	0.0078	0.9922	78.78
28.5	5,640,417	109,095	0.0193	0.9807	78.17
29.5	4,870,965	32,015	0.0066	0.9934	76.65
30.5	4,652,393	74,355	0.0160	0.9840	76.15
31.5	4,181,231	28,258	0.0068	0.9932	74.93
32.5	3,980,977	42,124	0.0106	0.9894	74.43
33.5	3,703,247	48,224	0.0130	0.9870	73.64
34.5	3,567,200	39,226	0.0110	0.9890	72.68
35.5	3,090,066	38,947	0.0126	0.9874	71.88
36.5	3,105,357	77,015	0.0248	0.9752	70.98
37.5	2,750,554	29,607	0.0108	0.9892	69.22
38.5	2,593,720	29,891	0.0115	0.9885	68.47

PLACEMENT BAND 1888-2022

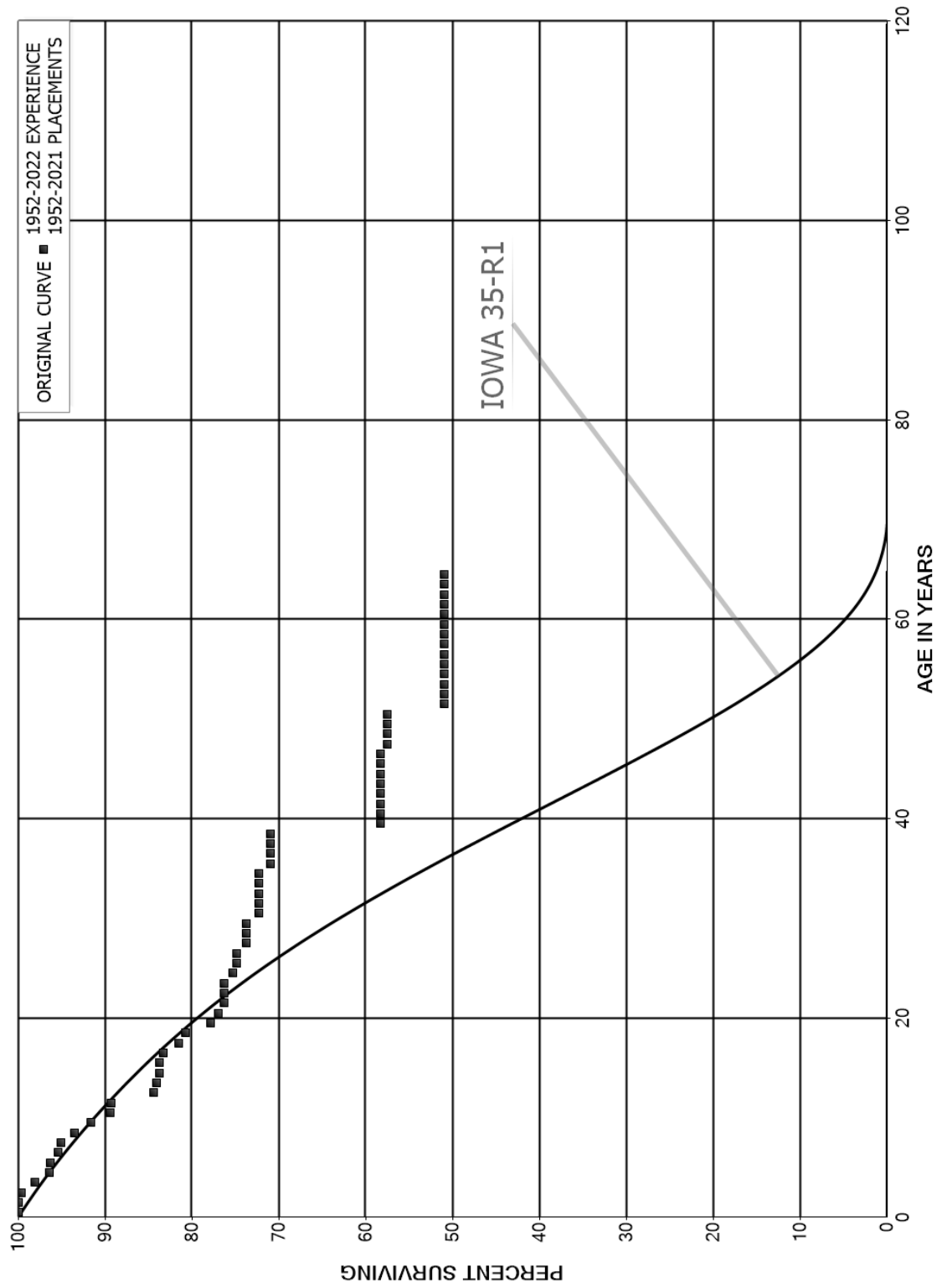
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	2,409,574	11,928	0.0050	0.9950	67.68
40.5	2,233,800	18,406	0.0082	0.9918	67.35
41.5	1,926,597	18,333	0.0095	0.9905	66.79
42.5	1,697,141	32,715	0.0193	0.9807	66.16
43.5	1,445,485	41,006	0.0284	0.9716	64.88
44.5	1,200,907	15,042	0.0125	0.9875	63.04
45.5	1,169,508	7,795	0.0067	0.9933	62.25
46.5	1,130,741	2,255	0.0020	0.9980	61.84
47.5	1,116,767	3,426	0.0031	0.9969	61.71
48.5	1,088,222	33,217	0.0305	0.9695	61.52
49.5	1,004,799	9,287	0.0092	0.9908	59.64
50.5	977,196	2,621	0.0027	0.9973	59.09
51.5	904,034	2,856	0.0032	0.9968	58.93
52.5	888,456	16,941	0.0191	0.9809	58.75
53.5	761,405	1,031	0.0014	0.9986	57.63
54.5	526,906	3,407	0.0065	0.9935	57.55
55.5	488,243	3,493	0.0072	0.9928	57.18
56.5	457,608	11,655	0.0255	0.9745	56.77
57.5	405,405	34	0.0001	0.9999	55.32
58.5	314,999	2,148	0.0068	0.9932	55.32
59.5	307,977	890	0.0029	0.9971	54.94
60.5	288,635	43	0.0002	0.9998	54.78
61.5	275,458	7,931	0.0288	0.9712	54.77
62.5	265,273	156	0.0006	0.9994	53.20
63.5	257,260	577	0.0022	0.9978	53.17
64.5	212,638	2,142	0.0101	0.9899	53.05
65.5	168,620	192	0.0011	0.9989	52.51
66.5	157,587	72	0.0005	0.9995	52.45
67.5	130,010	629	0.0048	0.9952	52.43
68.5	117,135	7	0.0001	0.9999	52.18
69.5	92,486	54	0.0006	0.9994	52.17
70.5	84,386	12	0.0001	0.9999	52.14
71.5	83,209	42	0.0005	0.9995	52.13
72.5	39,772	248	0.0062	0.9938	52.11
73.5	11,437	41	0.0036	0.9964	51.78
74.5	10,236		0.0000	1.0000	51.60
75.5	8,601		0.0000	1.0000	51.60
76.5	8,492		0.0000	1.0000	51.60
77.5	8,367	50	0.0060	0.9940	51.60
78.5	8,333		0.0000	1.0000	51.29

PLACEMENT BAND 1888-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	8,023		0.0000	1.0000	51.29
80.5	7,365		0.0000	1.0000	51.29
81.5	7,270	21	0.0028	0.9972	51.29
82.5	5,898		0.0000	1.0000	51.14
83.5	5,898	60	0.0101	0.9899	51.14
84.5	5,838		0.0000	1.0000	50.63
85.5	4,463		0.0000	1.0000	50.63
86.5	3,492		0.0000	1.0000	50.63
87.5	1,950		0.0000	1.0000	50.63
88.5	1,446		0.0000	1.0000	50.63
89.5	1,446		0.0000	1.0000	50.63
90.5	1,573		0.0000	1.0000	50.63
91.5	1,319		0.0000	1.0000	50.63
92.5	1,122		0.0000	1.0000	50.63
93.5	756		0.0000	1.0000	50.63
94.5	738		0.0000	1.0000	50.63
95.5	673		0.0000	1.0000	50.63
96.5	506		0.0000	1.0000	50.63
97.5	498		0.0000	1.0000	50.63
98.5	385		0.0000	1.0000	50.63
99.5	385		0.0000	1.0000	50.63
100.5	385		0.0000	1.0000	50.63
101.5	385		0.0000	1.0000	50.63
102.5	190		0.0000	1.0000	50.63
103.5	163		0.0000	1.0000	50.63
104.5	156		0.0000	1.0000	50.63
105.5	140		0.0000	1.0000	50.63
106.5	127		0.0000	1.0000	50.63
107.5	127		0.0000	1.0000	50.63
108.5	127		0.0000	1.0000	50.63
109.5	127		0.0000	1.0000	50.63
110.5	127		0.0000	1.0000	50.63
111.5	127		0.0000	1.0000	50.63
112.5	127		0.0000	1.0000	50.63
113.5	127		0.0000	1.0000	50.63
114.5	127		0.0000	1.0000	50.63
115.5	127		0.0000	1.0000	50.63
116.5	127		0.0000	1.0000	50.63
117.5					50.63



PLACEMENT BAND 1952-2021

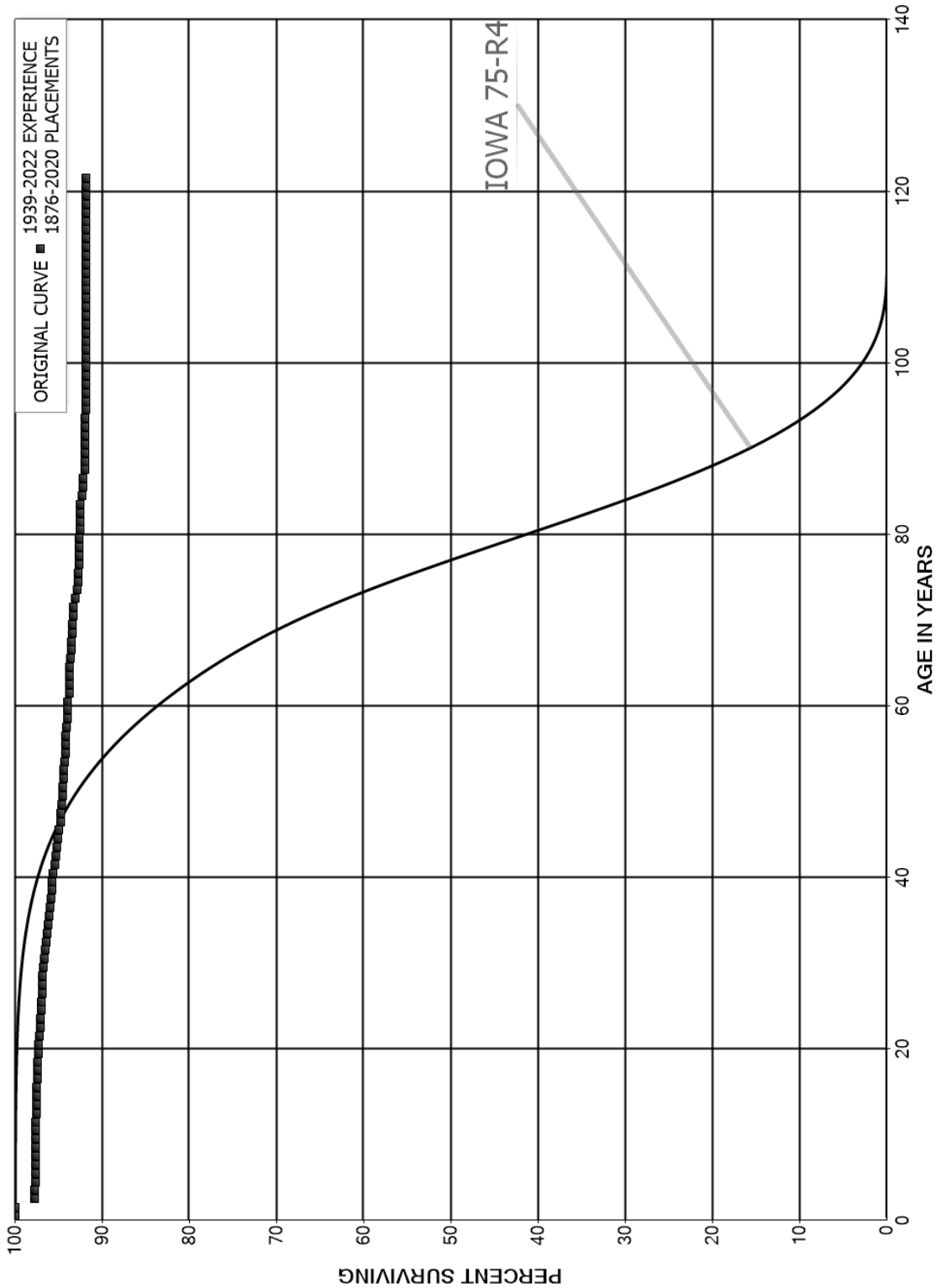
EXPERIENCE BAND 1952-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	3,256,191		0.0000	1.0000	100.00
0.5	3,256,229	317	0.0001	0.9999	100.00
1.5	3,095,460	10,216	0.0033	0.9967	99.99
2.5	3,085,059	50,558	0.0164	0.9836	99.66
3.5	3,029,865	49,657	0.0164	0.9836	98.03
4.5	2,735,075	4,167	0.0015	0.9985	96.42
5.5	2,098,981	18,766	0.0089	0.9911	96.27
6.5	1,786,170	7,515	0.0042	0.9958	95.41
7.5	1,223,617	20,079	0.0164	0.9836	95.01
8.5	1,198,638	23,442	0.0196	0.9804	93.45
9.5	1,169,957	28,147	0.0241	0.9759	91.62
10.5	1,145,239	2,139	0.0019	0.9981	89.42
11.5	995,837	53,933	0.0542	0.9458	89.25
12.5	937,612	4,331	0.0046	0.9954	84.42
13.5	914,569	3,134	0.0034	0.9966	84.03
14.5	802,309		0.0000	1.0000	83.74
15.5	800,277	4,078	0.0051	0.9949	83.74
16.5	767,757	16,673	0.0217	0.9783	83.31
17.5	751,084	7,419	0.0099	0.9901	81.51
18.5	719,103	25,958	0.0361	0.9639	80.70
19.5	646,766	7,309	0.0113	0.9887	77.79
20.5	524,319	3,952	0.0075	0.9925	76.91
21.5	505,651		0.0000	1.0000	76.33
22.5	389,549		0.0000	1.0000	76.33
23.5	361,525	5,066	0.0140	0.9860	76.33
24.5	297,023	1,865	0.0063	0.9937	75.26
25.5	186,510		0.0000	1.0000	74.79
26.5	168,864	2,456	0.0145	0.9855	74.79
27.5	148,916		0.0000	1.0000	73.70
28.5	113,452		0.0000	1.0000	73.70
29.5	101,300	1,906	0.0188	0.9812	73.70
30.5	91,321		0.0000	1.0000	72.31
31.5	86,464		0.0000	1.0000	72.31
32.5	86,449		0.0000	1.0000	72.31
33.5	59,967		0.0000	1.0000	72.31
34.5	56,913	1,026	0.0180	0.9820	72.31
35.5	55,630		0.0000	1.0000	71.01
36.5	53,494		0.0000	1.0000	71.01
37.5	53,494		0.0000	1.0000	71.01
38.5	53,494	9,616	0.1798	0.8202	71.01

PLACEMENT BAND 1952-2021

EXPERIENCE BAND 1952-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	43,878		0.0000	1.0000	58.24
40.5	39,374		0.0000	1.0000	58.24
41.5	39,374		0.0000	1.0000	58.24
42.5	39,374		0.0000	1.0000	58.24
43.5	21,723		0.0000	1.0000	58.24
44.5	21,723		0.0000	1.0000	58.24
45.5	21,723		0.0000	1.0000	58.24
46.5	20,507	249	0.0122	0.9878	58.24
47.5	20,021		0.0000	1.0000	57.53
48.5	19,443		0.0000	1.0000	57.53
49.5	19,443		0.0000	1.0000	57.53
50.5	19,443	2,220	0.1142	0.8858	57.53
51.5	14,201		0.0000	1.0000	50.96
52.5	11,680		0.0000	1.0000	50.96
53.5	8,948		0.0000	1.0000	50.96
54.5	7,313		0.0000	1.0000	50.96
55.5	7,313		0.0000	1.0000	50.96
56.5	7,313		0.0000	1.0000	50.96
57.5	3,884		0.0000	1.0000	50.96
58.5	3,884		0.0000	1.0000	50.96
59.5	3,884		0.0000	1.0000	50.96
60.5	3,884		0.0000	1.0000	50.96
61.5	3,127		0.0000	1.0000	50.96
62.5	3,127		0.0000	1.0000	50.96
63.5	3,127		0.0000	1.0000	50.96
64.5	3,127		0.0000	1.0000	50.96
65.5	3,127		0.0000	1.0000	50.96
66.5	3,127		0.0000	1.0000	50.96
67.5	2,776		0.0000	1.0000	50.96
68.5	2,741		0.0000	1.0000	50.96
69.5					50.96



PLACEMENT BAND 1876-2020

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	7,116,388	1,442	0.0002	0.9998	100.00
0.5	7,134,170	1,163	0.0002	0.9998	99.98
1.5	7,114,259	162,000	0.0228	0.9772	99.96
2.5	7,049,977	918	0.0001	0.9999	97.69
3.5	6,962,734	350	0.0001	0.9999	97.67
4.5	6,964,202	1,915	0.0003	0.9997	97.67
5.5	6,748,203	1,171	0.0002	0.9998	97.64
6.5	6,649,567	960	0.0001	0.9999	97.63
7.5	6,642,391	894	0.0001	0.9999	97.61
8.5	6,670,174	528	0.0001	0.9999	97.60
9.5	6,643,464	610	0.0001	0.9999	97.59
10.5	6,478,811	1,079	0.0002	0.9998	97.58
11.5	5,832,096	1,024	0.0002	0.9998	97.57
12.5	5,795,716	1,732	0.0003	0.9997	97.55
13.5	5,749,183	1,980	0.0003	0.9997	97.52
14.5	5,641,157	1,461	0.0003	0.9997	97.49
15.5	5,440,781	861	0.0002	0.9998	97.46
16.5	4,942,964	476	0.0001	0.9999	97.45
17.5	4,638,498	1,939	0.0004	0.9996	97.44
18.5	4,406,105	3,093	0.0007	0.9993	97.39
19.5	3,874,142	2,770	0.0007	0.9993	97.33
20.5	3,641,567	4,949	0.0014	0.9986	97.26
21.5	3,242,180	1,922	0.0006	0.9994	97.12
22.5	3,133,615	1,249	0.0004	0.9996	97.07
23.5	3,011,296	2,897	0.0010	0.9990	97.03
24.5	2,947,309	904	0.0003	0.9997	96.94
25.5	2,799,449	1,210	0.0004	0.9996	96.91
26.5	2,754,876	912	0.0003	0.9997	96.86
27.5	2,670,236	901	0.0003	0.9997	96.83
28.5	2,561,586	2,014	0.0008	0.9992	96.80
29.5	2,429,855	2,473	0.0010	0.9990	96.72
30.5	2,278,519	1,723	0.0008	0.9992	96.62
31.5	2,195,848	3,370	0.0015	0.9985	96.55
32.5	2,079,635	1,739	0.0008	0.9992	96.40
33.5	1,998,884	3,163	0.0016	0.9984	96.32
34.5	1,900,047	2,553	0.0013	0.9987	96.17
35.5	1,814,467	2,456	0.0014	0.9986	96.04
36.5	1,767,864	1,268	0.0007	0.9993	95.91
37.5	1,718,066	1,224	0.0007	0.9993	95.84
38.5	1,669,529	1,689	0.0010	0.9990	95.77

PLACEMENT BAND 1876-2020

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,596,028	752	0.0005	0.9995	95.68
40.5	1,531,931	3,728	0.0024	0.9976	95.63
41.5	1,452,651	1,193	0.0008	0.9992	95.40
42.5	1,393,453	1,882	0.0014	0.9986	95.32
43.5	1,342,094	1,274	0.0009	0.9991	95.19
44.5	1,297,906	2,242	0.0017	0.9983	95.10
45.5	1,280,320	2,947	0.0023	0.9977	94.94
46.5	1,255,565	507	0.0004	0.9996	94.72
47.5	1,205,355	637	0.0005	0.9995	94.68
48.5	1,176,446	1,785	0.0015	0.9985	94.63
49.5	1,144,092	331	0.0003	0.9997	94.49
50.5	1,161,590	380	0.0003	0.9997	94.46
51.5	1,128,862	680	0.0006	0.9994	94.43
52.5	1,095,638	1,443	0.0013	0.9987	94.37
53.5	1,067,460	578	0.0005	0.9995	94.25
54.5	1,024,408	709	0.0007	0.9993	94.20
55.5	969,070	45	0.0000	1.0000	94.13
56.5	936,292	422	0.0005	0.9995	94.13
57.5	898,652	927	0.0010	0.9990	94.08
58.5	861,729	645	0.0007	0.9993	93.99
59.5	828,445	212	0.0003	0.9997	93.92
60.5	805,558	1,331	0.0017	0.9983	93.89
61.5	750,477	170	0.0002	0.9998	93.74
62.5	723,771	120	0.0002	0.9998	93.72
63.5	700,366	116	0.0002	0.9998	93.70
64.5	608,459	279	0.0005	0.9995	93.69
65.5	588,155	607	0.0010	0.9990	93.64
66.5	603,964	335	0.0006	0.9994	93.55
67.5	576,228	326	0.0006	0.9994	93.49
68.5	554,071	1	0.0000	1.0000	93.44
69.5	537,786	848	0.0016	0.9984	93.44
70.5	513,040	119	0.0002	0.9998	93.29
71.5	473,302	1,201	0.0025	0.9975	93.27
72.5	442,493	974	0.0022	0.9978	93.04
73.5	431,418	410	0.0009	0.9991	92.83
74.5	420,801	45	0.0001	0.9999	92.74
75.5	409,291	355	0.0009	0.9991	92.73
76.5	400,835		0.0000	1.0000	92.65
77.5	384,372	75	0.0002	0.9998	92.65
78.5	381,899	118	0.0003	0.9997	92.63

PLACEMENT BAND 1876-2020

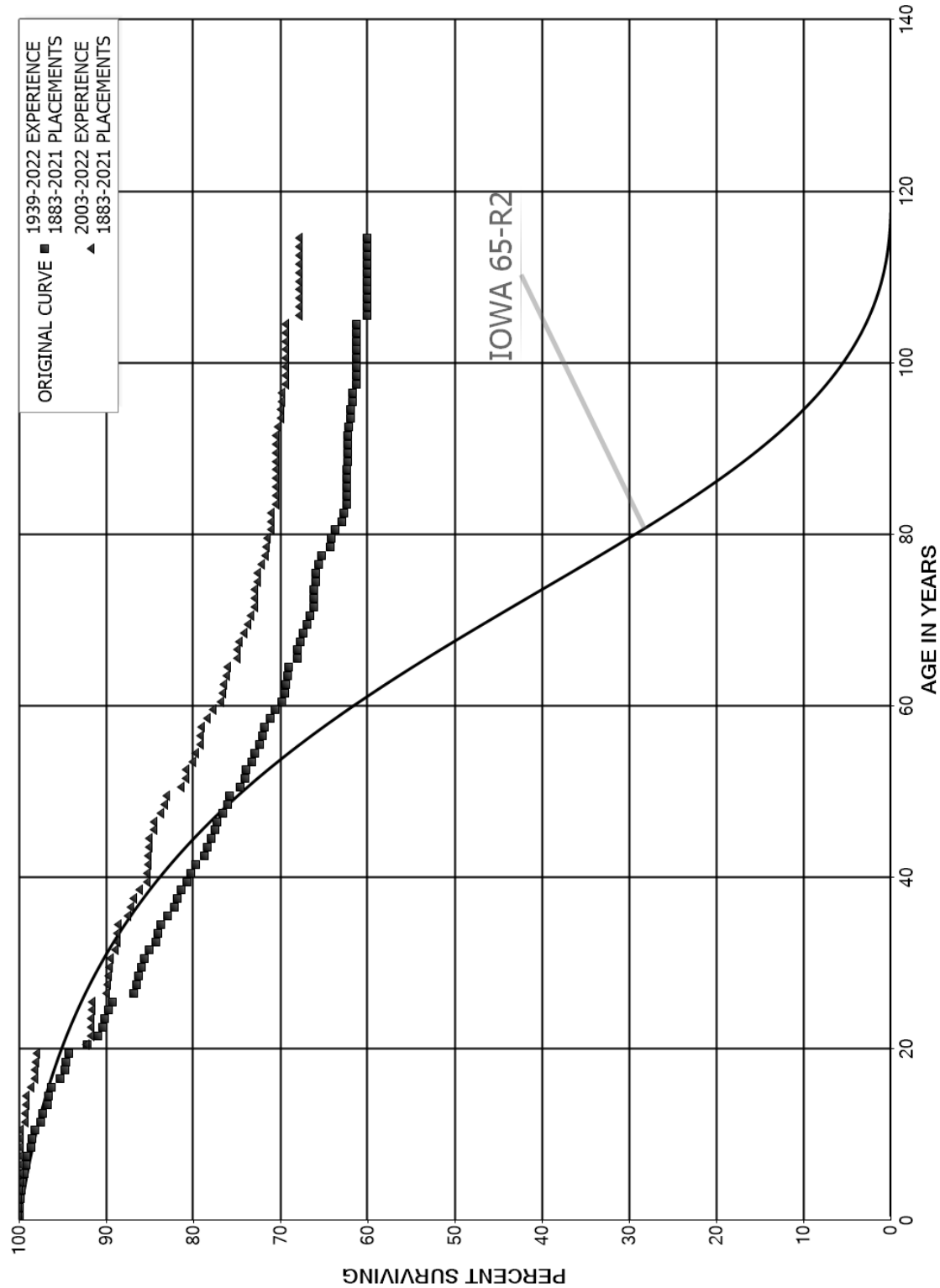
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	385,315	234	0.0006	0.9994	92.61
80.5	380,209		0.0000	1.0000	92.55
81.5	354,447	43	0.0001	0.9999	92.55
82.5	342,259		0.0000	1.0000	92.54
83.5	333,068	916	0.0027	0.9973	92.54
84.5	328,901	368	0.0011	0.9989	92.28
85.5	324,331		0.0000	1.0000	92.18
86.5	327,528	725	0.0022	0.9978	92.18
87.5	329,315		0.0000	1.0000	91.98
88.5	330,155		0.0000	1.0000	91.98
89.5	329,664	18	0.0001	0.9999	91.98
90.5	326,605		0.0000	1.0000	91.97
91.5	321,719		0.0000	1.0000	91.97
92.5	315,627	118	0.0004	0.9996	91.97
93.5	312,150	227	0.0007	0.9993	91.94
94.5	310,586	24	0.0001	0.9999	91.87
95.5	373,519	169	0.0005	0.9995	91.86
96.5	369,520		0.0000	1.0000	91.82
97.5	362,300		0.0000	1.0000	91.82
98.5	357,566		0.0000	1.0000	91.82
99.5	347,701		0.0000	1.0000	91.82
100.5	394,620		0.0000	1.0000	91.82
101.5	321,999		0.0000	1.0000	91.82
102.5	308,874	18	0.0001	0.9999	91.82
103.5	301,312		0.0000	1.0000	91.82
104.5	297,592		0.0000	1.0000	91.82
105.5	281,470		0.0000	1.0000	91.82
106.5	268,109		0.0000	1.0000	91.82
107.5	245,720		0.0000	1.0000	91.82
108.5	229,335		0.0000	1.0000	91.82
109.5	218,856		0.0000	1.0000	91.82
110.5	205,319		0.0000	1.0000	91.82
111.5	198,148		0.0000	1.0000	91.82
112.5	194,078		0.0000	1.0000	91.82
113.5	192,017		0.0000	1.0000	91.82
114.5	188,334		0.0000	1.0000	91.82
115.5	184,342		0.0000	1.0000	91.82
116.5	171,646		0.0000	1.0000	91.82
117.5	150,826		0.0000	1.0000	91.82
118.5	143,851		0.0000	1.0000	91.82

PLACEMENT BAND 1876-2020

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	88,093		0.0000	1.0000	91.82
120.5	67,107		0.0000	1.0000	91.82
121.5	9,357		0.0000	1.0000	91.82
122.5	7,870		0.0000	1.0000	91.82
123.5	6,511		0.0000	1.0000	91.82
124.5	6,323		0.0000	1.0000	91.82
125.5	5,782		0.0000	1.0000	91.82
126.5	5,769		0.0000	1.0000	91.82
127.5	5,653		0.0000	1.0000	91.82
128.5	4,233		0.0000	1.0000	91.82
129.5	4,233		0.0000	1.0000	91.82
130.5	3,867		0.0000	1.0000	91.82
131.5	3,612		0.0000	1.0000	91.82
132.5	3,145		0.0000	1.0000	91.82
133.5	1,505		0.0000	1.0000	91.82
134.5	1,201		0.0000	1.0000	91.82
135.5	899		0.0000	1.0000	91.82
136.5	899		0.0000	1.0000	91.82
137.5	547		0.0000	1.0000	91.82
138.5	547		0.0000	1.0000	91.82
139.5	547		0.0000	1.0000	91.82
140.5	547		0.0000	1.0000	91.82
141.5	535		0.0000	1.0000	91.82
142.5	535		0.0000	1.0000	91.82
143.5	535		0.0000	1.0000	91.82
144.5	535		0.0000	1.0000	91.82
145.5	535		0.0000	1.0000	91.82
146.5					91.82



PLACEMENT BAND 1883-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	7,540,227	1,949	0.0003	0.9997	100.00
0.5	7,561,702	4,659	0.0006	0.9994	99.97
1.5	7,569,043	8,182	0.0011	0.9989	99.91
2.5	7,561,525	6,695	0.0009	0.9991	99.80
3.5	7,522,110	11,640	0.0015	0.9985	99.72
4.5	7,357,933	13,675	0.0019	0.9981	99.56
5.5	7,338,549	12,122	0.0017	0.9983	99.38
6.5	7,339,451	6,526	0.0009	0.9991	99.21
7.5	6,897,266	36,357	0.0053	0.9947	99.12
8.5	6,839,398	7,371	0.0011	0.9989	98.60
9.5	6,687,516	25,110	0.0038	0.9962	98.50
10.5	6,255,721	37,702	0.0060	0.9940	98.13
11.5	6,096,196	15,215	0.0025	0.9975	97.53
12.5	6,036,136	31,926	0.0053	0.9947	97.29
13.5	5,750,685	8,962	0.0016	0.9984	96.78
14.5	5,315,548	17,257	0.0032	0.9968	96.63
15.5	5,104,053	56,276	0.0110	0.9890	96.31
16.5	4,743,553	23,461	0.0049	0.9951	95.25
17.5	4,612,836	9,380	0.0020	0.9980	94.78
18.5	4,488,498	13,273	0.0030	0.9970	94.59
19.5	4,226,384	96,523	0.0228	0.9772	94.31
20.5	3,834,609	48,758	0.0127	0.9873	92.15
21.5	3,751,809	22,553	0.0060	0.9940	90.98
22.5	3,666,149	10,391	0.0028	0.9972	90.43
23.5	3,623,948	18,789	0.0052	0.9948	90.18
24.5	3,554,147	18,534	0.0052	0.9948	89.71
25.5	3,640,529	100,210	0.0275	0.9725	89.24
26.5	3,293,993	9,934	0.0030	0.9970	86.79
27.5	3,208,656	9,820	0.0031	0.9969	86.52
28.5	3,165,684	13,418	0.0042	0.9958	86.26
29.5	3,108,341	11,401	0.0037	0.9963	85.89
30.5	3,075,714	18,527	0.0060	0.9940	85.58
31.5	2,998,862	26,421	0.0088	0.9912	85.06
32.5	2,936,644	8,895	0.0030	0.9970	84.31
33.5	2,768,170	9,872	0.0036	0.9964	84.06
34.5	2,690,869	26,154	0.0097	0.9903	83.76
35.5	2,624,401	24,136	0.0092	0.9908	82.94
36.5	2,569,983	11,056	0.0043	0.9957	82.18
37.5	2,317,614	12,659	0.0055	0.9945	81.83
38.5	2,184,229	16,355	0.0075	0.9925	81.38

PLACEMENT BAND 1883-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,969,373	10,899	0.0055	0.9945	80.77
40.5	1,912,317	13,943	0.0073	0.9927	80.32
41.5	1,748,107	23,195	0.0133	0.9867	79.74
42.5	1,674,051	5,981	0.0036	0.9964	78.68
43.5	1,604,166	9,694	0.0060	0.9940	78.40
44.5	1,578,423	9,077	0.0058	0.9942	77.93
45.5	1,543,519	3,029	0.0020	0.9980	77.48
46.5	1,476,789	12,735	0.0086	0.9914	77.33
47.5	1,389,624	11,532	0.0083	0.9917	76.66
48.5	1,321,607	4,211	0.0032	0.9968	76.02
49.5	1,273,526	19,503	0.0153	0.9847	75.78
50.5	1,214,229	8,207	0.0068	0.9932	74.62
51.5	1,180,120	1,999	0.0017	0.9983	74.12
52.5	1,133,808	10,223	0.0090	0.9910	73.99
53.5	1,101,340	5,679	0.0052	0.9948	73.32
54.5	1,069,165	7,564	0.0071	0.9929	72.95
55.5	1,046,496	4,592	0.0044	0.9956	72.43
56.5	1,006,032	4,167	0.0041	0.9959	72.11
57.5	963,063	7,955	0.0083	0.9917	71.81
58.5	918,222	7,843	0.0085	0.9915	71.22
59.5	873,237	10,240	0.0117	0.9883	70.61
60.5	854,270	3,142	0.0037	0.9963	69.78
61.5	781,921	1,039	0.0013	0.9987	69.53
62.5	760,412	2,592	0.0034	0.9966	69.43
63.5	682,730	1,559	0.0023	0.9977	69.20
64.5	600,521	8,544	0.0142	0.9858	69.04
65.5	549,401	274	0.0005	0.9995	68.06
66.5	510,686	2,004	0.0039	0.9961	68.02
67.5	457,311	2,795	0.0061	0.9939	67.76
68.5	431,288	2,406	0.0056	0.9944	67.34
69.5	355,491	2,041	0.0057	0.9943	66.97
70.5	266,859	1,434	0.0054	0.9946	66.58
71.5	214,165	57	0.0003	0.9997	66.22
72.5	178,775	180	0.0010	0.9990	66.21
73.5	146,060	518	0.0035	0.9965	66.14
74.5	118,305		0.0000	1.0000	65.91
75.5	107,753	510	0.0047	0.9953	65.91
76.5	96,050	411	0.0043	0.9957	65.59
77.5	93,590	1,434	0.0153	0.9847	65.31
78.5	85,302	136	0.0016	0.9984	64.31

PLACEMENT BAND 1883-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	82,428	666	0.0081	0.9919	64.21
80.5	70,434	790	0.0112	0.9888	63.69
81.5	67,422	308	0.0046	0.9954	62.98
82.5	65,282	360	0.0055	0.9945	62.69
83.5	63,145		0.0000	1.0000	62.34
84.5	60,800		0.0000	1.0000	62.34
85.5	56,468		0.0000	1.0000	62.34
86.5	50,936		0.0000	1.0000	62.34
87.5	49,069	33	0.0007	0.9993	62.34
88.5	48,708		0.0000	1.0000	62.30
89.5	48,300		0.0000	1.0000	62.30
90.5	46,289		0.0000	1.0000	62.30
91.5	45,553	123	0.0027	0.9973	62.30
92.5	41,214	157	0.0038	0.9962	62.13
93.5	37,902		0.0000	1.0000	61.90
94.5	32,637	93	0.0029	0.9971	61.90
95.5	28,026		0.0000	1.0000	61.72
96.5	26,577	164	0.0062	0.9938	61.72
97.5	21,561		0.0000	1.0000	61.34
98.5	20,921		0.0000	1.0000	61.34
99.5	20,284		0.0000	1.0000	61.34
100.5	18,456		0.0000	1.0000	61.34
101.5	16,627		0.0000	1.0000	61.34
102.5	16,256		0.0000	1.0000	61.34
103.5	13,475		0.0000	1.0000	61.34
104.5	10,652	230	0.0216	0.9784	61.34
105.5	8,926		0.0000	1.0000	60.01
106.5	8,926		0.0000	1.0000	60.01
107.5	6,779		0.0000	1.0000	60.01
108.5	4,898		0.0000	1.0000	60.01
109.5	3,060		0.0000	1.0000	60.01
110.5	2,481		0.0000	1.0000	60.01
111.5	1,835		0.0000	1.0000	60.01
112.5	1,530		0.0000	1.0000	60.01
113.5	1,139		0.0000	1.0000	60.01
114.5	1,119		0.0000	1.0000	60.01
115.5	290	20	0.0686	0.9314	60.01
116.5	88		0.0000	1.0000	55.89
117.5	88		0.0000	1.0000	55.89
118.5	88		0.0000	1.0000	55.89

PLACEMENT BAND 1883-2021			EXPERIENCE BAND 1939-2022		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5					55.89

PLACEMENT BAND 1883-2021

EXPERIENCE BAND 2003-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	2,377,760		0.0000	1.0000	100.00
0.5	2,380,223		0.0000	1.0000	100.00
1.5	2,373,649	1,316	0.0006	0.9994	100.00
2.5	2,413,866	2,353	0.0010	0.9990	99.94
3.5	2,412,649	1,934	0.0008	0.9992	99.85
4.5	2,315,953		0.0000	1.0000	99.77
5.5	2,382,635		0.0000	1.0000	99.77
6.5	2,416,661		0.0000	1.0000	99.77
7.5	2,070,084		0.0000	1.0000	99.77
8.5	2,084,343		0.0000	1.0000	99.77
9.5	2,038,253		0.0000	1.0000	99.77
10.5	1,684,234	10,414	0.0062	0.9938	99.77
11.5	1,674,505		0.0000	1.0000	99.15
12.5	1,692,399	930	0.0005	0.9995	99.15
13.5	1,539,507		0.0000	1.0000	99.10
14.5	1,385,603	8,660	0.0062	0.9938	99.10
15.5	1,436,264	5,222	0.0036	0.9964	98.48
16.5	1,531,160		0.0000	1.0000	98.12
17.5	1,483,195	3,369	0.0023	0.9977	98.12
18.5	1,433,824	351	0.0002	0.9998	97.90
19.5	1,364,726	79,506	0.0583	0.9417	97.87
20.5	1,071,478	6,674	0.0062	0.9938	92.17
21.5	1,178,435		0.0000	1.0000	91.60
22.5	1,273,268		0.0000	1.0000	91.60
23.5	1,296,410	687	0.0005	0.9995	91.60
24.5	1,262,834	820	0.0006	0.9994	91.55
25.5	1,172,482	21,873	0.0187	0.9813	91.49
26.5	1,370,856	1,092	0.0008	0.9992	89.78
27.5	1,414,212	1,029	0.0007	0.9993	89.71
28.5	1,438,774	2,296	0.0016	0.9984	89.64
29.5	1,478,911	2,501	0.0017	0.9983	89.50
30.5	1,494,786	9,285	0.0062	0.9938	89.35
31.5	1,460,847	2,547	0.0017	0.9983	88.79
32.5	1,450,677	1,107	0.0008	0.9992	88.64
33.5	1,312,006	453	0.0003	0.9997	88.57
34.5	1,277,096	17,141	0.0134	0.9866	88.54
35.5	1,249,003	4,614	0.0037	0.9963	87.35
36.5	1,252,492	4,644	0.0037	0.9963	87.03
37.5	1,050,973	8,131	0.0077	0.9923	86.71
38.5	967,133	9,357	0.0097	0.9903	86.04

PLACEMENT BAND 1883-2021

EXPERIENCE BAND 2003-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	837,308		0.0000	1.0000	85.20
40.5	825,414	1,255	0.0015	0.9985	85.20
41.5	818,623	107	0.0001	0.9999	85.08
42.5	791,651	951	0.0012	0.9988	85.06
43.5	804,269	638	0.0008	0.9992	84.96
44.5	874,353	5,250	0.0060	0.9940	84.89
45.5	889,747	181	0.0002	0.9998	84.38
46.5	864,199	7,979	0.0092	0.9908	84.37
47.5	837,599	3,986	0.0048	0.9952	83.59
48.5	822,748	2,098	0.0025	0.9975	83.19
49.5	870,398	18,033	0.0207	0.9793	82.98
50.5	913,566	5,462	0.0060	0.9940	81.26
51.5	938,179	108	0.0001	0.9999	80.77
52.5	939,658	8,970	0.0095	0.9905	80.76
53.5	940,359	4,880	0.0052	0.9948	79.99
54.5	937,814	5,954	0.0063	0.9937	79.58
55.5	920,755	721	0.0008	0.9992	79.07
56.5	895,069	1,277	0.0014	0.9986	79.01
57.5	860,354	7,123	0.0083	0.9917	78.90
58.5	823,199	6,559	0.0080	0.9920	78.25
59.5	783,847	9,551	0.0122	0.9878	77.62
60.5	776,211	2,258	0.0029	0.9971	76.68
61.5	707,377	912	0.0013	0.9987	76.45
62.5	687,828	2,317	0.0034	0.9966	76.35
63.5	612,894	1,559	0.0025	0.9975	76.10
64.5	533,112	7,671	0.0144	0.9856	75.90
65.5	487,198	202	0.0004	0.9996	74.81
66.5	454,734	1,178	0.0026	0.9974	74.78
67.5	404,549	2,795	0.0069	0.9931	74.59
68.5	378,928	2,406	0.0063	0.9937	74.07
69.5	303,248	1,166	0.0038	0.9962	73.60
70.5	217,692	1,412	0.0065	0.9935	73.32
71.5	165,603	57	0.0003	0.9997	72.84
72.5	134,428	30	0.0002	0.9998	72.82
73.5	105,224	407	0.0039	0.9961	72.80
74.5	83,091		0.0000	1.0000	72.52
75.5	77,010	510	0.0066	0.9934	72.52
76.5	66,856	411	0.0061	0.9939	72.04
77.5	69,245	76	0.0011	0.9989	71.60
78.5	63,011	136	0.0022	0.9978	71.52

PLACEMENT BAND 1883-2021

EXPERIENCE BAND 2003-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	60,437	361	0.0060	0.9940	71.36
80.5	50,599		0.0000	1.0000	70.94
81.5	50,206		0.0000	1.0000	70.94
82.5	48,744	360	0.0074	0.9926	70.94
83.5	49,343		0.0000	1.0000	70.41
84.5	49,915		0.0000	1.0000	70.41
85.5	47,078		0.0000	1.0000	70.41
86.5	41,546		0.0000	1.0000	70.41
87.5	41,886	33	0.0008	0.9992	70.41
88.5	43,547		0.0000	1.0000	70.36
89.5	44,978		0.0000	1.0000	70.36
90.5	43,775		0.0000	1.0000	70.36
91.5	43,687	123	0.0028	0.9972	70.36
92.5	39,653	157	0.0040	0.9960	70.16
93.5	36,731		0.0000	1.0000	69.88
94.5	31,487	93	0.0030	0.9970	69.88
95.5	27,686		0.0000	1.0000	69.68
96.5	26,493	164	0.0062	0.9938	69.68
97.5	21,477		0.0000	1.0000	69.24
98.5	20,813		0.0000	1.0000	69.24
99.5	20,284		0.0000	1.0000	69.24
100.5	18,456		0.0000	1.0000	69.24
101.5	16,627		0.0000	1.0000	69.24
102.5	16,256		0.0000	1.0000	69.24
103.5	13,475		0.0000	1.0000	69.24
104.5	10,652	230	0.0216	0.9784	69.24
105.5	8,926		0.0000	1.0000	67.75
106.5	8,926		0.0000	1.0000	67.75
107.5	6,779		0.0000	1.0000	67.75
108.5	4,898		0.0000	1.0000	67.75
109.5	3,060		0.0000	1.0000	67.75
110.5	2,481		0.0000	1.0000	67.75
111.5	1,835		0.0000	1.0000	67.75
112.5	1,530		0.0000	1.0000	67.75
113.5	1,139		0.0000	1.0000	67.75
114.5	1,119		0.0000	1.0000	67.75
115.5	290	20	0.0686	0.9314	67.75
116.5	88		0.0000	1.0000	63.10
117.5	88		0.0000	1.0000	63.10
118.5	88		0.0000	1.0000	63.10

PLACEMENT BAND 1883-2021

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL

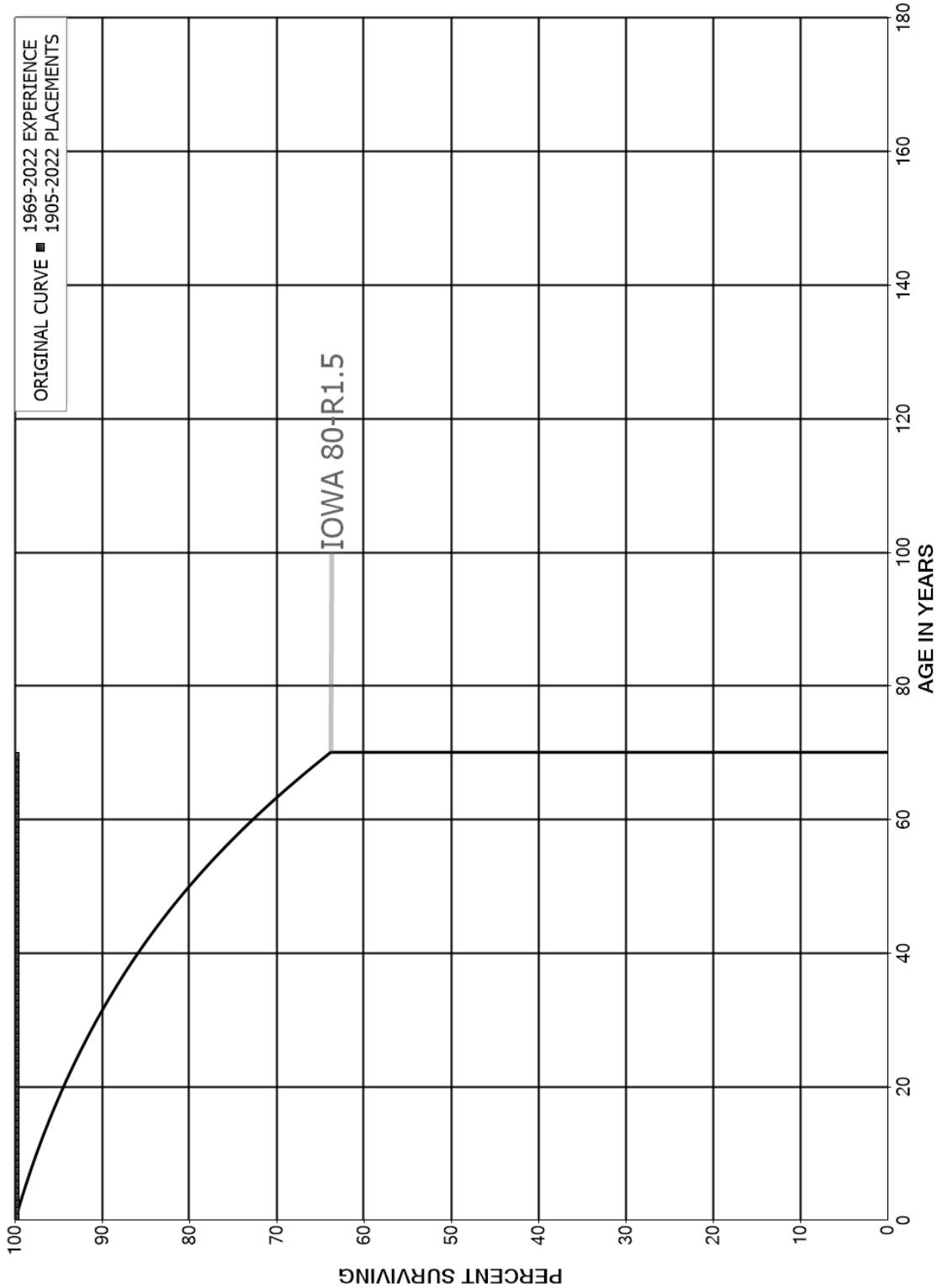
119.5

RETIREMENTS DURING AGE INTERVAL

EXPERIENCE BAND 2003-2022

RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL

		63.10



PLACEMENT BAND 1905-2022

EXPERIENCE BAND 1969-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	21,272,714		0.0000	1.0000	100.00
0.5	21,281,984		0.0000	1.0000	100.00
1.5	19,755,202		0.0000	1.0000	100.00
2.5	19,683,988		0.0000	1.0000	100.00
3.5	18,231,513		0.0000	1.0000	100.00
4.5	16,104,984		0.0000	1.0000	100.00
5.5	16,174,639		0.0000	1.0000	100.00
6.5	15,919,282		0.0000	1.0000	100.00
7.5	16,188,154		0.0000	1.0000	100.00
8.5	16,107,550		0.0000	1.0000	100.00
9.5	16,082,485		0.0000	1.0000	100.00
10.5	15,762,558		0.0000	1.0000	100.00
11.5	15,228,648		0.0000	1.0000	100.00
12.5	15,228,648		0.0000	1.0000	100.00
13.5	14,906,825		0.0000	1.0000	100.00
14.5	14,124,754		0.0000	1.0000	100.00
15.5	14,023,746		0.0000	1.0000	100.00
16.5	13,325,197		0.0000	1.0000	100.00
17.5	13,034,586	2,843	0.0002	0.9998	100.00
18.5	13,639,098		0.0000	1.0000	99.98
19.5	12,385,007		0.0000	1.0000	99.98
20.5	11,713,865		0.0000	1.0000	99.98
21.5	10,406,230		0.0000	1.0000	99.98
22.5	10,150,459		0.0000	1.0000	99.98
23.5	10,092,427		0.0000	1.0000	99.98
24.5	9,236,409		0.0000	1.0000	99.98
25.5	9,106,059		0.0000	1.0000	99.98
26.5	9,009,722		0.0000	1.0000	99.98
27.5	8,570,387		0.0000	1.0000	99.98
28.5	8,248,955		0.0000	1.0000	99.98
29.5	8,153,563		0.0000	1.0000	99.98
30.5	8,071,772		0.0000	1.0000	99.98
31.5	7,871,510		0.0000	1.0000	99.98
32.5	6,876,817		0.0000	1.0000	99.98
33.5	5,842,834		0.0000	1.0000	99.98
34.5	5,317,498		0.0000	1.0000	99.98
35.5	5,074,306		0.0000	1.0000	99.98
36.5	4,735,725		0.0000	1.0000	99.98
37.5	4,411,765		0.0000	1.0000	99.98
38.5	4,305,931		0.0000	1.0000	99.98

PLACEMENT BAND 1905-2022

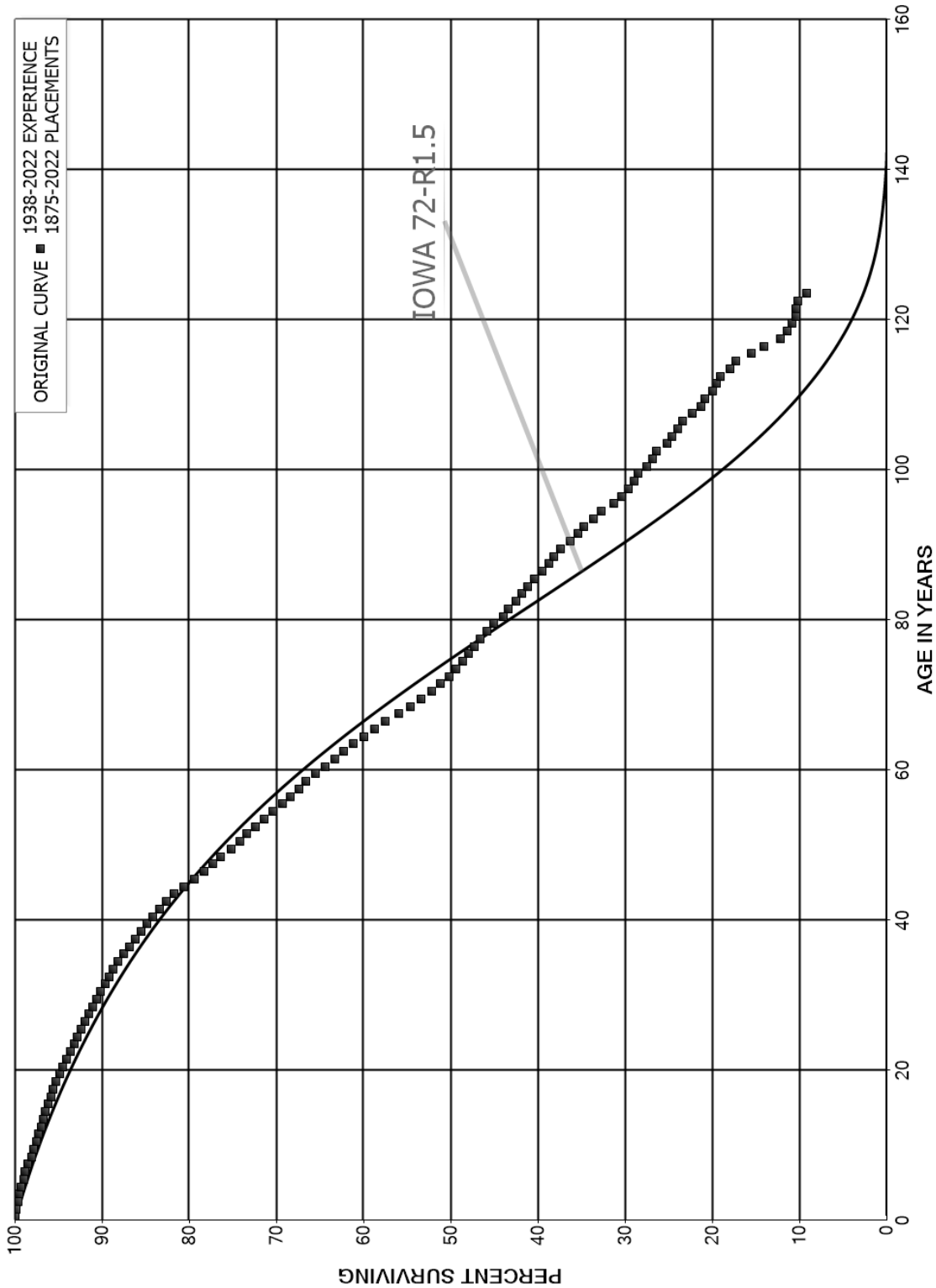
EXPERIENCE BAND 1969-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	4,174,144		0.0000	1.0000	99.98
40.5	4,050,381		0.0000	1.0000	99.98
41.5	4,001,908		0.0000	1.0000	99.98
42.5	3,984,956		0.0000	1.0000	99.98
43.5	3,928,208		0.0000	1.0000	99.98
44.5	3,901,125		0.0000	1.0000	99.98
45.5	3,321,786		0.0000	1.0000	99.98
46.5	3,309,823		0.0000	1.0000	99.98
47.5	3,289,005		0.0000	1.0000	99.98
48.5	3,265,901		0.0000	1.0000	99.98
49.5	3,240,933		0.0000	1.0000	99.98
50.5	3,193,302		0.0000	1.0000	99.98
51.5	3,142,516		0.0000	1.0000	99.98
52.5	3,139,339		0.0000	1.0000	99.98
53.5	3,129,366		0.0000	1.0000	99.98
54.5	3,116,530		0.0000	1.0000	99.98
55.5	3,104,448		0.0000	1.0000	99.98
56.5	2,707,350		0.0000	1.0000	99.98
57.5	2,687,167		0.0000	1.0000	99.98
58.5	2,511,122		0.0000	1.0000	99.98
59.5	2,075,348		0.0000	1.0000	99.98
60.5	2,061,053		0.0000	1.0000	99.98
61.5	1,792,181		0.0000	1.0000	99.98
62.5	1,712,711		0.0000	1.0000	99.98
63.5	1,645,107		0.0000	1.0000	99.98
64.5	1,644,231		0.0000	1.0000	99.98
65.5	1,644,231		0.0000	1.0000	99.98
66.5	1,644,231		0.0000	1.0000	99.98
67.5	1,644,231		0.0000	1.0000	99.98
68.5	1,641,875		0.0000	1.0000	99.98
69.5	1,616,822		0.0000	1.0000	99.98
70.5	1,471,973		0.0000	1.0000	99.98
71.5	1,464,677		0.0000	1.0000	99.98
72.5	182,674		0.0000	1.0000	99.98
73.5	179,036		0.0000	1.0000	99.98
74.5	148,487		0.0000	1.0000	99.98
75.5	91,320		0.0000	1.0000	99.98
76.5	91,320		0.0000	1.0000	99.98
77.5	90,827		0.0000	1.0000	99.98
78.5	90,827		0.0000	1.0000	99.98

PLACEMENT BAND 1905-2022

EXPERIENCE BAND 1969-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	436		0.0000	1.0000	99.98
80.5	436		0.0000	1.0000	99.98
81.5	436		0.0000	1.0000	99.98
82.5	436		0.0000	1.0000	99.98
83.5	436		0.0000	1.0000	99.98
84.5	436		0.0000	1.0000	99.98
85.5	436		0.0000	1.0000	99.98
86.5	436		0.0000	1.0000	99.98
87.5	436		0.0000	1.0000	99.98
88.5	436		0.0000	1.0000	99.98
89.5	436		0.0000	1.0000	99.98
90.5	436		0.0000	1.0000	99.98
91.5	436		0.0000	1.0000	99.98
92.5	436		0.0000	1.0000	99.98
93.5	436		0.0000	1.0000	99.98
94.5	436		0.0000	1.0000	99.98
95.5	436		0.0000	1.0000	99.98
96.5	436		0.0000	1.0000	99.98
97.5	436		0.0000	1.0000	99.98
98.5					99.98



PLACEMENT BAND 1875-2022

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	2,388,243,085	522,867	0.0002	0.9998	100.00
0.5	2,128,309,447	3,291,997	0.0015	0.9985	99.98
1.5	1,913,470,862	3,312,783	0.0017	0.9983	99.82
2.5	1,764,035,950	3,357,343	0.0019	0.9981	99.65
3.5	1,628,329,352	3,637,326	0.0022	0.9978	99.46
4.5	1,472,385,775	3,489,570	0.0024	0.9976	99.24
5.5	1,374,957,853	2,917,774	0.0021	0.9979	99.00
6.5	1,305,226,308	3,977,965	0.0030	0.9970	98.79
7.5	1,250,032,052	5,413,891	0.0043	0.9957	98.49
8.5	1,202,169,911	3,390,324	0.0028	0.9972	98.07
9.5	1,155,595,585	2,898,896	0.0025	0.9975	97.79
10.5	1,084,902,442	3,149,044	0.0029	0.9971	97.54
11.5	1,040,047,392	3,370,629	0.0032	0.9968	97.26
12.5	1,006,029,488	2,687,119	0.0027	0.9973	96.95
13.5	974,120,529	2,213,692	0.0023	0.9977	96.69
14.5	944,377,167	2,814,156	0.0030	0.9970	96.47
15.5	910,165,156	2,882,034	0.0032	0.9968	96.18
16.5	872,138,145	2,599,247	0.0030	0.9970	95.87
17.5	826,761,489	2,979,924	0.0036	0.9964	95.59
18.5	787,144,953	3,212,360	0.0041	0.9959	95.24
19.5	750,934,137	2,695,856	0.0036	0.9964	94.86
20.5	714,664,036	3,194,617	0.0045	0.9955	94.52
21.5	687,256,249	3,464,551	0.0050	0.9950	94.09
22.5	667,012,163	3,204,604	0.0048	0.9952	93.62
23.5	640,583,494	2,499,010	0.0039	0.9961	93.17
24.5	623,567,864	2,840,227	0.0046	0.9954	92.81
25.5	597,646,363	2,642,231	0.0044	0.9956	92.38
26.5	577,722,879	3,039,050	0.0053	0.9947	91.97
27.5	550,721,931	2,560,067	0.0046	0.9954	91.49
28.5	525,268,652	2,805,827	0.0053	0.9947	91.07
29.5	500,953,661	2,474,326	0.0049	0.9951	90.58
30.5	470,841,111	2,698,623	0.0057	0.9943	90.13
31.5	445,557,948	2,350,618	0.0053	0.9947	89.61
32.5	419,468,075	2,189,231	0.0052	0.9948	89.14
33.5	397,355,523	2,193,772	0.0055	0.9945	88.68
34.5	377,980,483	2,719,640	0.0072	0.9928	88.19
35.5	350,228,115	2,680,250	0.0077	0.9923	87.55
36.5	332,032,793	2,494,801	0.0075	0.9925	86.88
37.5	306,447,187	2,629,798	0.0086	0.9914	86.23
38.5	288,816,509	2,070,732	0.0072	0.9928	85.49

PLACEMENT BAND 1875-2022

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	277,306,394	2,153,689	0.0078	0.9922	84.88
40.5	260,384,580	2,509,966	0.0096	0.9904	84.22
41.5	237,061,891	2,305,810	0.0097	0.9903	83.41
42.5	218,618,665	2,412,368	0.0110	0.9890	82.59
43.5	203,664,677	2,586,548	0.0127	0.9873	81.68
44.5	193,629,634	3,128,835	0.0162	0.9838	80.65
45.5	181,360,518	2,524,852	0.0139	0.9861	79.34
46.5	174,132,905	2,120,926	0.0122	0.9878	78.24
47.5	166,525,831	1,953,749	0.0117	0.9883	77.29
48.5	156,326,196	2,412,716	0.0154	0.9846	76.38
49.5	143,031,803	1,901,722	0.0133	0.9867	75.20
50.5	131,415,316	1,435,887	0.0109	0.9891	74.20
51.5	124,011,354	1,685,378	0.0136	0.9864	73.39
52.5	118,009,836	1,579,586	0.0134	0.9866	72.39
53.5	111,705,350	1,548,146	0.0139	0.9861	71.42
54.5	103,174,181	1,601,050	0.0155	0.9845	70.43
55.5	95,113,128	1,335,578	0.0140	0.9860	69.34
56.5	87,932,705	1,216,209	0.0138	0.9862	68.37
57.5	81,632,681	1,040,983	0.0128	0.9872	67.42
58.5	76,653,707	1,249,876	0.0163	0.9837	66.56
59.5	71,494,424	1,159,777	0.0162	0.9838	65.48
60.5	66,778,788	1,141,850	0.0171	0.9829	64.41
61.5	60,774,225	1,019,539	0.0168	0.9832	63.31
62.5	56,382,096	959,015	0.0170	0.9830	62.25
63.5	51,234,289	990,802	0.0193	0.9807	61.19
64.5	46,661,495	986,681	0.0211	0.9789	60.01
65.5	43,274,102	941,268	0.0218	0.9782	58.74
66.5	39,977,184	1,044,577	0.0261	0.9739	57.46
67.5	36,950,673	879,017	0.0238	0.9762	55.96
68.5	35,201,998	808,746	0.0230	0.9770	54.63
69.5	32,264,063	697,631	0.0216	0.9784	53.37
70.5	29,552,508	576,269	0.0195	0.9805	52.22
71.5	27,138,497	558,946	0.0206	0.9794	51.20
72.5	25,604,427	397,269	0.0155	0.9845	50.15
73.5	25,701,280	396,519	0.0154	0.9846	49.37
74.5	24,963,801	334,667	0.0134	0.9866	48.61
75.5	24,219,495	352,627	0.0146	0.9854	47.96
76.5	23,512,644	304,981	0.0130	0.9870	47.26
77.5	23,132,121	422,923	0.0183	0.9817	46.64
78.5	22,690,458	367,791	0.0162	0.9838	45.79

PLACEMENT BAND 1875-2022

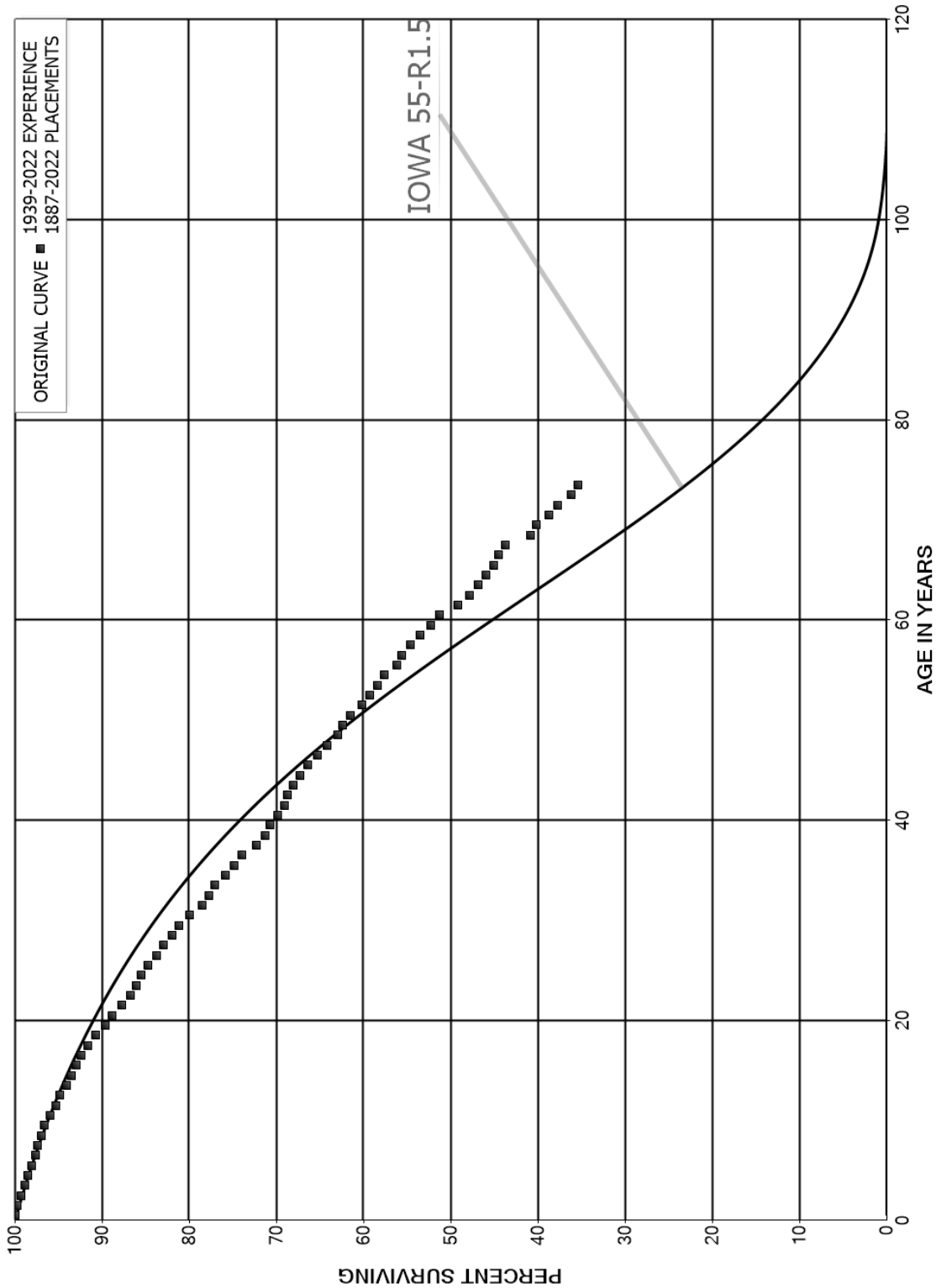
EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	22,261,757	518,044	0.0233	0.9767	45.05
80.5	21,591,164	318,333	0.0147	0.9853	44.00
81.5	20,822,031	402,379	0.0193	0.9807	43.35
82.5	20,168,974	330,816	0.0164	0.9836	42.51
83.5	19,286,672	304,353	0.0158	0.9842	41.82
84.5	18,811,641	359,011	0.0191	0.9809	41.16
85.5	18,260,749	371,278	0.0203	0.9797	40.37
86.5	17,823,109	366,238	0.0205	0.9795	39.55
87.5	17,410,065	242,971	0.0140	0.9860	38.74
88.5	17,148,209	356,776	0.0208	0.9792	38.20
89.5	16,810,007	482,509	0.0287	0.9713	37.40
90.5	16,273,999	438,340	0.0269	0.9731	36.33
91.5	15,767,990	277,227	0.0176	0.9824	35.35
92.5	15,305,464	472,219	0.0309	0.9691	34.73
93.5	14,684,857	423,549	0.0288	0.9712	33.66
94.5	14,099,302	606,480	0.0430	0.9570	32.69
95.5	13,300,908	363,234	0.0273	0.9727	31.28
96.5	12,675,598	359,182	0.0283	0.9717	30.43
97.5	11,965,750	249,702	0.0209	0.9791	29.56
98.5	11,518,748	195,976	0.0170	0.9830	28.95
99.5	11,429,582	378,089	0.0331	0.9669	28.45
100.5	10,987,829	272,807	0.0248	0.9752	27.51
101.5	10,454,498	189,219	0.0181	0.9819	26.83
102.5	10,219,391	437,188	0.0428	0.9572	26.34
103.5	9,671,524	211,190	0.0218	0.9782	25.22
104.5	9,327,254	254,232	0.0273	0.9727	24.67
105.5	8,423,465	222,244	0.0264	0.9736	23.99
106.5	7,957,475	365,201	0.0459	0.9541	23.36
107.5	7,079,468	310,844	0.0439	0.9561	22.29
108.5	5,887,449	142,058	0.0241	0.9759	21.31
109.5	5,020,437	194,178	0.0387	0.9613	20.80
110.5	3,838,935	87,137	0.0227	0.9773	19.99
111.5	3,709,501	93,707	0.0253	0.9747	19.54
112.5	3,512,047	195,408	0.0556	0.9444	19.04
113.5	3,274,669	126,103	0.0385	0.9615	17.99
114.5	3,061,716	314,244	0.1026	0.8974	17.29
115.5	2,691,827	257,166	0.0955	0.9045	15.52
116.5	2,350,463	307,374	0.1308	0.8692	14.04
117.5	1,960,481	133,328	0.0680	0.9320	12.20
118.5	1,771,125	83,659	0.0472	0.9528	11.37

PLACEMENT BAND 1875-2022

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	1,577,084	59,079	0.0375	0.9625	10.83
120.5	1,347,632	11,027	0.0082	0.9918	10.43
121.5	1,288,448	20,226	0.0157	0.9843	10.34
122.5	167,243	15,856	0.0948	0.9052	10.18
123.5	143,299	9,626	0.0672	0.9328	9.21
124.5	133,404	2,226	0.0167	0.9833	8.60
125.5	129,626	3,861	0.0298	0.9702	8.45
126.5	113,099	3,958	0.0350	0.9650	8.20
127.5	108,602	5,354	0.0493	0.9507	7.91
128.5	102,444	1,581	0.0154	0.9846	7.52
129.5	100,826	2,826	0.0280	0.9720	7.41
130.5	98,000	1,760	0.0180	0.9820	7.20
131.5	69,851	10,534	0.1508	0.8492	7.07
132.5	59,167	7,588	0.1282	0.8718	6.00
133.5	31,621	7,939	0.2511	0.7489	5.23
134.5	16,190	5,343	0.3300	0.6700	3.92
135.5	10,847	7,489	0.6904	0.3096	2.63
136.5	3,268	5	0.0016	0.9984	0.81
137.5	286	282	0.9847	0.0153	0.81
138.5	4		0.0000	1.0000	0.01
139.5	4		0.0000	1.0000	0.01
140.5	4		0.0000	1.0000	0.01
141.5	4		0.0000	1.0000	0.01
142.5	4	1	0.3075	0.6925	0.01
143.5	3		0.0000	1.0000	0.01
144.5	3		0.0000	1.0000	0.01
145.5	3		0.0000	1.0000	0.01
146.5					0.01



PLACEMENT BAND 1887-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	95,933,043	37,250	0.0004	0.9996	100.00
0.5	90,024,304	257,863	0.0029	0.9971	99.96
1.5	82,073,969	351,862	0.0043	0.9957	99.67
2.5	79,069,462	364,357	0.0046	0.9954	99.25
3.5	77,037,861	230,033	0.0030	0.9970	98.79
4.5	75,392,567	313,381	0.0042	0.9958	98.50
5.5	68,837,357	306,466	0.0045	0.9955	98.09
6.5	67,372,529	189,573	0.0028	0.9972	97.65
7.5	64,932,635	270,673	0.0042	0.9958	97.37
8.5	63,635,428	234,694	0.0037	0.9963	96.97
9.5	60,778,128	424,612	0.0070	0.9930	96.61
10.5	59,577,556	415,524	0.0070	0.9930	95.94
11.5	56,162,656	278,978	0.0050	0.9950	95.27
12.5	55,887,359	406,953	0.0073	0.9927	94.79
13.5	52,191,442	353,939	0.0068	0.9932	94.10
14.5	47,073,103	275,712	0.0059	0.9941	93.47
15.5	45,320,093	268,429	0.0059	0.9941	92.92
16.5	41,397,918	330,156	0.0080	0.9920	92.37
17.5	39,698,517	370,900	0.0093	0.9907	91.63
18.5	38,160,759	494,819	0.0130	0.9870	90.77
19.5	36,412,699	325,357	0.0089	0.9911	89.60
20.5	34,719,529	400,032	0.0115	0.9885	88.80
21.5	32,350,462	394,193	0.0122	0.9878	87.77
22.5	31,095,333	236,190	0.0076	0.9924	86.70
23.5	30,141,855	208,022	0.0069	0.9931	86.05
24.5	29,361,808	230,900	0.0079	0.9921	85.45
25.5	28,656,383	348,601	0.0122	0.9878	84.78
26.5	27,362,520	268,128	0.0098	0.9902	83.75
27.5	26,052,476	295,837	0.0114	0.9886	82.93
28.5	24,505,864	245,400	0.0100	0.9900	81.99
29.5	23,315,971	363,269	0.0156	0.9844	81.17
30.5	21,746,333	377,539	0.0174	0.9826	79.90
31.5	19,737,438	200,660	0.0102	0.9898	78.51
32.5	18,490,813	155,754	0.0084	0.9916	77.72
33.5	17,234,433	266,123	0.0154	0.9846	77.06
34.5	15,905,034	223,433	0.0140	0.9860	75.87
35.5	14,585,098	158,699	0.0109	0.9891	74.80
36.5	13,367,007	299,838	0.0224	0.9776	73.99
37.5	11,831,450	163,272	0.0138	0.9862	72.33
38.5	10,735,123	98,157	0.0091	0.9909	71.33

PLACEMENT BAND 1887-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	9,723,661	122,707	0.0126	0.9874	70.68
40.5	8,496,655	82,793	0.0097	0.9903	69.79
41.5	6,890,750	43,008	0.0062	0.9938	69.11
42.5	6,423,331	61,103	0.0095	0.9905	68.68
43.5	5,912,808	67,980	0.0115	0.9885	68.02
44.5	5,410,052	67,855	0.0125	0.9875	67.24
45.5	5,069,779	83,879	0.0165	0.9835	66.40
46.5	4,424,678	78,502	0.0177	0.9823	65.30
47.5	4,051,900	71,561	0.0177	0.9823	64.14
48.5	3,672,677	33,038	0.0090	0.9910	63.01
49.5	3,399,874	50,385	0.0148	0.9852	62.44
50.5	3,028,819	66,475	0.0219	0.9781	61.52
51.5	2,784,170	40,771	0.0146	0.9854	60.17
52.5	2,607,887	37,289	0.0143	0.9857	59.29
53.5	2,428,506	32,109	0.0132	0.9868	58.44
54.5	2,201,553	57,144	0.0260	0.9740	57.67
55.5	2,028,795	19,195	0.0095	0.9905	56.17
56.5	1,918,410	36,742	0.0192	0.9808	55.64
57.5	1,786,398	34,645	0.0194	0.9806	54.57
58.5	1,665,173	39,292	0.0236	0.9764	53.51
59.5	1,513,860	29,561	0.0195	0.9805	52.25
60.5	1,355,480	53,011	0.0391	0.9609	51.23
61.5	1,206,424	34,250	0.0284	0.9716	49.23
62.5	1,097,456	23,231	0.0212	0.9788	47.83
63.5	987,052	17,207	0.0174	0.9826	46.82
64.5	792,069	16,848	0.0213	0.9787	46.00
65.5	701,623	8,569	0.0122	0.9878	45.02
66.5	621,797	10,495	0.0169	0.9831	44.47
67.5	512,353	33,257	0.0649	0.9351	43.72
68.5	438,417	8,168	0.0186	0.9814	40.88
69.5	302,643	10,635	0.0351	0.9649	40.12
70.5	212,976	5,624	0.0264	0.9736	38.71
71.5	154,195	6,215	0.0403	0.9597	37.69
72.5	121,552	2,603	0.0214	0.9786	36.17
73.5	103,750	3,933	0.0379	0.9621	35.40
74.5	96,197	5,342	0.0555	0.9445	34.05
75.5	87,710	3,219	0.0367	0.9633	32.16
76.5	85,509	2,437	0.0285	0.9715	30.98
77.5	83,548	7,014	0.0840	0.9160	30.10
78.5	76,313	4,918	0.0645	0.9355	27.57

PLACEMENT BAND 1887-2022

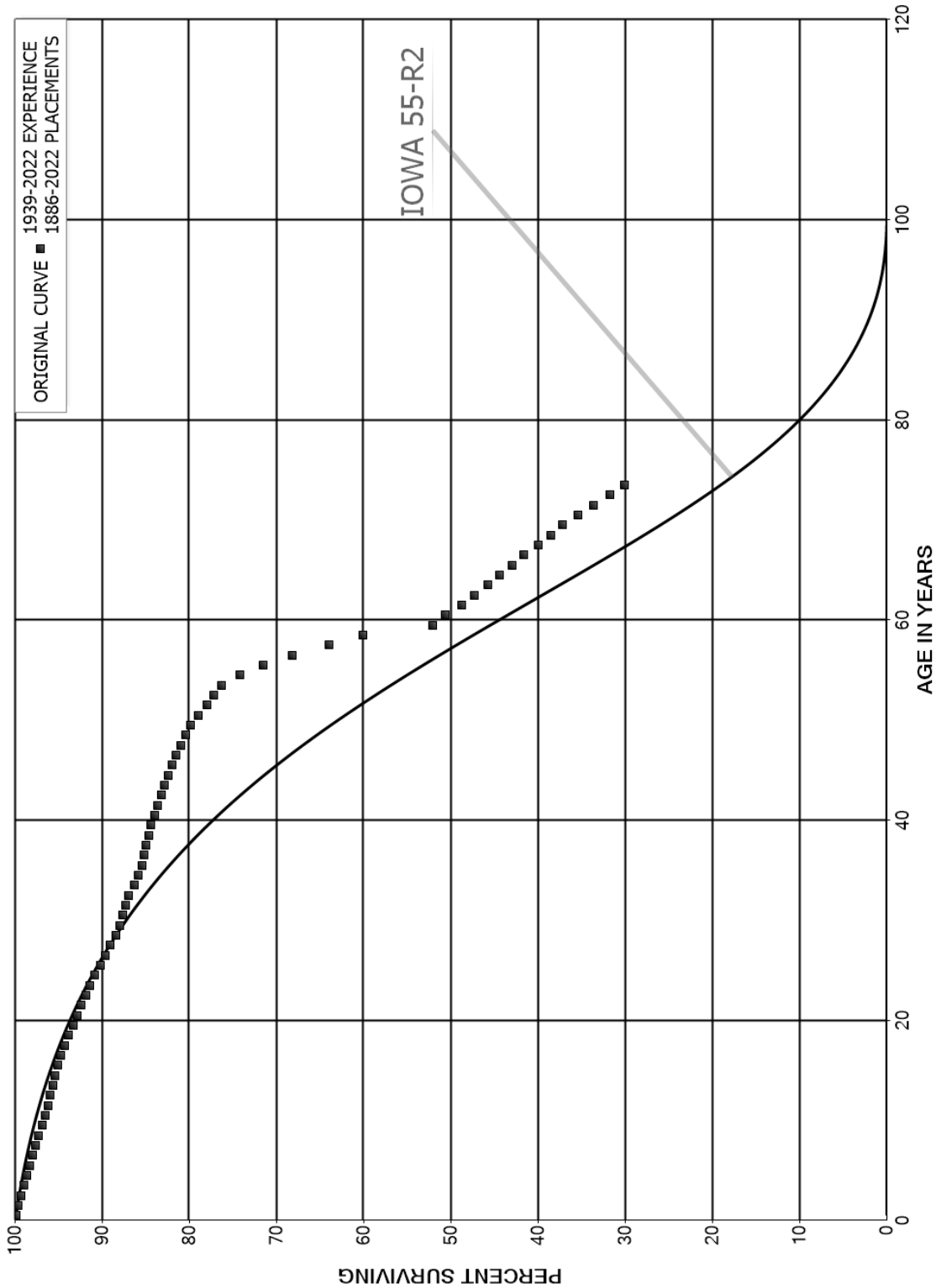
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	69,576	3,533	0.0508	0.9492	25.80
80.5	64,003	7,765	0.1213	0.8787	24.49
81.5	55,390	2,142	0.0387	0.9613	21.52
82.5	50,023	1,324	0.0265	0.9735	20.68
83.5	47,966	3,394	0.0708	0.9292	20.14
84.5	43,382	2,026	0.0467	0.9533	18.71
85.5	36,244	311	0.0086	0.9914	17.84
86.5	36,141	717	0.0198	0.9802	17.68
87.5	38,997	1,361	0.0349	0.9651	17.33
88.5	36,032	2,286	0.0634	0.9366	16.73
89.5	33,422	2,956	0.0884	0.9116	15.67
90.5	29,954	2,283	0.0762	0.9238	14.28
91.5	27,639	1,592	0.0576	0.9424	13.19
92.5	24,549	393	0.0160	0.9840	12.43
93.5	23,051	2,247	0.0975	0.9025	12.23
94.5	18,181	2,769	0.1523	0.8477	11.04
95.5	14,306	1,434	0.1002	0.8998	9.36
96.5	12,759	134	0.0105	0.9895	8.42
97.5	12,087	411	0.0340	0.9660	8.33
98.5	11,388	99	0.0087	0.9913	8.05
99.5	11,259	272	0.0242	0.9758	7.98
100.5	10,420	5	0.0005	0.9995	7.79
101.5	10,210	199	0.0195	0.9805	7.78
102.5	9,965		0.0000	1.0000	7.63
103.5	9,146	510	0.0558	0.9442	7.63
104.5	8,419	819	0.0973	0.9027	7.21
105.5	7,469	376	0.0504	0.9496	6.51
106.5	7,071	3,246	0.4591	0.5409	6.18
107.5	2,973	121	0.0406	0.9594	3.34
108.5	2,353	351	0.1492	0.8508	3.21
109.5	1,464		0.0000	1.0000	2.73
110.5	1,434	80	0.0560	0.9440	2.73
111.5	1,275		0.0000	1.0000	2.57
112.5	1,255		0.0000	1.0000	2.57
113.5	1,171	11	0.0096	0.9904	2.57
114.5	1,102		0.0000	1.0000	2.55
115.5	909		0.0000	1.0000	2.55
116.5	816		0.0000	1.0000	2.55
117.5	814	60	0.0732	0.9268	2.55
118.5	489		0.0000	1.0000	2.36

PLACEMENT BAND 1887-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	489		0.0000	1.0000	2.36
120.5	367		0.0000	1.0000	2.36
121.5	277		0.0000	1.0000	2.36
122.5	138		0.0000	1.0000	2.36
123.5	138		0.0000	1.0000	2.36
124.5	39		0.0000	1.0000	2.36
125.5	39		0.0000	1.0000	2.36
126.5	39		0.0000	1.0000	2.36
127.5	39		0.0000	1.0000	2.36
128.5	39		0.0000	1.0000	2.36
129.5	39		0.0000	1.0000	2.36
130.5	39		0.0000	1.0000	2.36
131.5					2.36



PLACEMENT BAND 1886-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	826,584,436	978,537	0.0012	0.9988	100.00
0.5	783,584,907	2,522,405	0.0032	0.9968	99.88
1.5	736,320,708	2,094,258	0.0028	0.9972	99.56
2.5	698,844,986	2,165,318	0.0031	0.9969	99.28
3.5	655,517,999	2,049,246	0.0031	0.9969	98.97
4.5	612,204,093	2,012,027	0.0033	0.9967	98.66
5.5	585,905,759	2,065,813	0.0035	0.9965	98.34
6.5	561,093,876	2,318,500	0.0041	0.9959	97.99
7.5	537,227,226	1,645,283	0.0031	0.9969	97.58
8.5	517,567,393	2,304,506	0.0045	0.9955	97.29
9.5	502,726,098	1,650,292	0.0033	0.9967	96.85
10.5	480,557,785	1,633,701	0.0034	0.9966	96.53
11.5	466,458,132	1,456,029	0.0031	0.9969	96.21
12.5	458,758,765	1,375,994	0.0030	0.9970	95.91
13.5	445,897,101	1,289,006	0.0029	0.9971	95.62
14.5	433,294,090	1,467,967	0.0034	0.9966	95.34
15.5	421,019,469	1,421,634	0.0034	0.9966	95.02
16.5	405,062,010	1,790,138	0.0044	0.9956	94.70
17.5	387,178,127	1,821,663	0.0047	0.9953	94.28
18.5	367,853,385	2,081,230	0.0057	0.9943	93.84
19.5	353,195,985	1,730,992	0.0049	0.9951	93.30
20.5	338,867,173	1,720,115	0.0051	0.9949	92.85
21.5	322,407,486	1,750,822	0.0054	0.9946	92.38
22.5	315,529,306	1,745,425	0.0055	0.9945	91.87
23.5	300,573,507	1,781,487	0.0059	0.9941	91.37
24.5	289,878,820	1,931,279	0.0067	0.9933	90.82
25.5	269,729,969	1,916,621	0.0071	0.9929	90.22
26.5	256,127,139	1,610,917	0.0063	0.9937	89.58
27.5	241,247,836	1,531,713	0.0063	0.9937	89.02
28.5	224,844,321	1,353,287	0.0060	0.9940	88.45
29.5	211,105,067	743,993	0.0035	0.9965	87.92
30.5	192,976,710	618,742	0.0032	0.9968	87.61
31.5	181,613,812	845,643	0.0047	0.9953	87.33
32.5	166,791,920	1,148,879	0.0069	0.9931	86.92
33.5	159,185,247	975,113	0.0061	0.9939	86.32
34.5	147,735,840	598,767	0.0041	0.9959	85.79
35.5	129,623,062	404,755	0.0031	0.9969	85.45
36.5	123,833,860	407,653	0.0033	0.9967	85.18
37.5	111,618,674	306,005	0.0027	0.9973	84.90
38.5	99,574,328	358,274	0.0036	0.9964	84.67

PLACEMENT BAND 1886-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	92,949,423	403,347	0.0043	0.9957	84.36
40.5	83,009,157	367,676	0.0044	0.9956	83.99
41.5	70,971,346	338,101	0.0048	0.9952	83.62
42.5	63,522,868	297,633	0.0047	0.9953	83.22
43.5	56,893,074	268,935	0.0047	0.9953	82.83
44.5	49,505,926	266,911	0.0054	0.9946	82.44
45.5	45,619,607	284,829	0.0062	0.9938	82.00
46.5	41,669,312	301,930	0.0072	0.9928	81.49
47.5	38,584,767	244,337	0.0063	0.9937	80.90
48.5	35,572,807	256,174	0.0072	0.9928	80.38
49.5	32,600,160	370,480	0.0114	0.9886	79.80
50.5	29,375,440	356,611	0.0121	0.9879	78.90
51.5	26,162,661	254,126	0.0097	0.9903	77.94
52.5	23,142,234	268,365	0.0116	0.9884	77.18
53.5	20,601,139	568,675	0.0276	0.9724	76.29
54.5	17,795,712	631,005	0.0355	0.9645	74.18
55.5	15,569,253	735,759	0.0473	0.9527	71.55
56.5	13,083,383	803,126	0.0614	0.9386	68.17
57.5	10,576,695	640,995	0.0606	0.9394	63.99
58.5	8,475,453	1,139,681	0.1345	0.8655	60.11
59.5	5,895,057	157,883	0.0268	0.9732	52.03
60.5	4,703,521	173,112	0.0368	0.9632	50.63
61.5	3,634,479	107,948	0.0297	0.9703	48.77
62.5	3,119,614	102,032	0.0327	0.9673	47.32
63.5	2,649,122	78,579	0.0297	0.9703	45.77
64.5	2,318,487	76,788	0.0331	0.9669	44.41
65.5	2,044,027	64,317	0.0315	0.9685	42.94
66.5	1,818,983	73,703	0.0405	0.9595	41.59
67.5	1,627,864	56,975	0.0350	0.9650	39.91
68.5	1,476,245	51,452	0.0349	0.9651	38.51
69.5	1,367,062	65,419	0.0479	0.9521	37.17
70.5	1,259,553	63,755	0.0506	0.9494	35.39
71.5	1,156,164	63,335	0.0548	0.9452	33.60
72.5	1,059,072	57,751	0.0545	0.9455	31.76
73.5	964,908	58,410	0.0605	0.9395	30.03
74.5	871,594	54,062	0.0620	0.9380	28.21
75.5	794,341	51,521	0.0649	0.9351	26.46
76.5	726,636	50,438	0.0694	0.9306	24.74
77.5	672,347	52,665	0.0783	0.9217	23.02
78.5	612,531	41,103	0.0671	0.9329	21.22

PLACEMENT BAND 1886-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	567,196	42,758	0.0754	0.9246	19.80
80.5	514,959	44,614	0.0866	0.9134	18.30
81.5	457,540	24,543	0.0536	0.9464	16.72
82.5	427,000	40,077	0.0939	0.9061	15.82
83.5	382,576	43,273	0.1131	0.8869	14.34
84.5	337,689	38,025	0.1126	0.8874	12.72
85.5	296,404	32,147	0.1085	0.8915	11.28
86.5	261,182	21,873	0.0837	0.9163	10.06
87.5	237,558	26,630	0.1121	0.8879	9.22
88.5	209,543	17,926	0.0855	0.9145	8.18
89.5	189,800	30,427	0.1603	0.8397	7.48
90.5	156,997	17,235	0.1098	0.8902	6.28
91.5	137,420	13,598	0.0990	0.9010	5.59
92.5	120,316	4,684	0.0389	0.9611	5.04
93.5	112,933	7,636	0.0676	0.9324	4.84
94.5	102,350	3,717	0.0363	0.9637	4.52
95.5	97,124	3,290	0.0339	0.9661	4.35
96.5	90,657	3,042	0.0336	0.9664	4.21
97.5	85,784	1,001	0.0117	0.9883	4.06
98.5	83,627	4,085	0.0488	0.9512	4.02
99.5	78,077	4,617	0.0591	0.9409	3.82
100.5	72,236	5,266	0.0729	0.9271	3.59
101.5	63,195	8,460	0.1339	0.8661	3.33
102.5	53,840	9,092	0.1689	0.8311	2.89
103.5	44,748	6,106	0.1365	0.8635	2.40
104.5	38,642	5,527	0.1430	0.8570	2.07
105.5	33,115	4,951	0.1495	0.8505	1.78
106.5	28,164	7,578	0.2691	0.7309	1.51
107.5	20,586	1,405	0.0683	0.9317	1.10
108.5	19,181	324	0.0169	0.9831	1.03
109.5	18,857	16	0.0009	0.9991	1.01
110.5	18,840		0.0000	1.0000	1.01
111.5	18,840	1	0.0000	1.0000	1.01
112.5	18,840		0.0000	1.0000	1.01
113.5	18,496		0.0000	1.0000	1.01
114.5	15,511		0.0000	1.0000	1.01
115.5	11,377		0.0000	1.0000	1.01
116.5	7,552		0.0000	1.0000	1.01
117.5	3,539		0.0000	1.0000	1.01
118.5	2,595		0.0000	1.0000	1.01

PLACEMENT BAND 1886-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL

119.5	2,052
120.5	1,653
121.5	15
122.5	

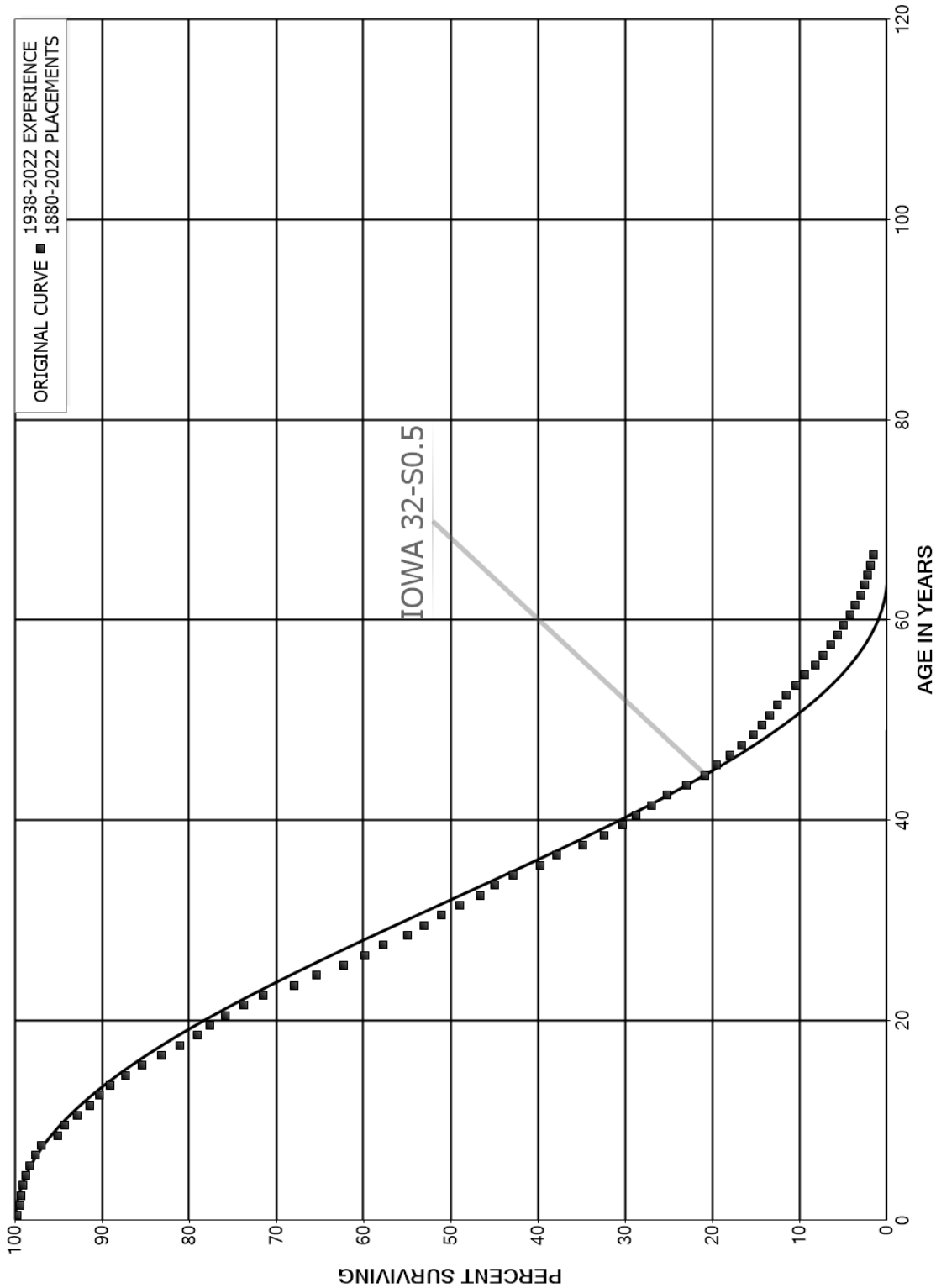
RETIREMENTS DURING AGE INTERVAL

RETMT RATIO

SURV RATIO

PCT SURV BEGIN OF INTERVAL

0.0000	1.0000	1.01
0.0000	1.0000	1.01
0.0000	1.0000	1.01
		1.01



PLACEMENT BAND 1880-2022

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	190,680,169	615,906	0.0032	0.9968	100.00
0.5	183,118,759	542,297	0.0030	0.9970	99.68
1.5	177,564,555	265,446	0.0015	0.9985	99.38
2.5	160,441,667	320,325	0.0020	0.9980	99.23
3.5	144,637,990	473,387	0.0033	0.9967	99.04
4.5	128,330,801	482,660	0.0038	0.9962	98.71
5.5	115,890,693	822,154	0.0071	0.9929	98.34
6.5	107,972,058	762,727	0.0071	0.9929	97.64
7.5	103,389,246	2,047,570	0.0198	0.9802	96.95
8.5	98,204,210	742,616	0.0076	0.9924	95.03
9.5	95,588,875	1,525,244	0.0160	0.9840	94.31
10.5	90,690,179	1,371,558	0.0151	0.9849	92.81
11.5	86,656,859	1,047,922	0.0121	0.9879	91.41
12.5	81,414,242	1,150,539	0.0141	0.9859	90.30
13.5	78,253,718	1,527,837	0.0195	0.9805	89.02
14.5	74,462,186	1,578,535	0.0212	0.9788	87.29
15.5	69,940,937	1,836,213	0.0263	0.9737	85.44
16.5	65,987,585	1,718,991	0.0261	0.9739	83.19
17.5	62,622,303	1,505,469	0.0240	0.9760	81.03
18.5	59,504,687	1,107,508	0.0186	0.9814	79.08
19.5	56,752,752	1,274,846	0.0225	0.9775	77.61
20.5	53,500,510	1,475,559	0.0276	0.9724	75.86
21.5	49,962,082	1,565,075	0.0313	0.9687	73.77
22.5	47,403,124	2,360,946	0.0498	0.9502	71.46
23.5	44,093,289	1,621,729	0.0368	0.9632	67.90
24.5	41,248,580	1,991,531	0.0483	0.9517	65.40
25.5	37,766,266	1,450,797	0.0384	0.9616	62.24
26.5	35,518,216	1,242,108	0.0350	0.9650	59.85
27.5	33,378,560	1,635,642	0.0490	0.9510	57.76
28.5	30,654,072	1,044,417	0.0341	0.9659	54.93
29.5	28,115,648	1,037,616	0.0369	0.9631	53.06
30.5	26,324,392	1,110,003	0.0422	0.9578	51.10
31.5	24,659,632	1,192,761	0.0484	0.9516	48.95
32.5	22,750,806	780,922	0.0343	0.9657	46.58
33.5	21,299,439	997,857	0.0468	0.9532	44.98
34.5	19,442,374	1,418,038	0.0729	0.9271	42.87
35.5	17,076,733	798,210	0.0467	0.9533	39.75
36.5	15,790,935	1,254,068	0.0794	0.9206	37.89
37.5	14,250,741	1,003,903	0.0704	0.9296	34.88
38.5	13,192,267	872,208	0.0661	0.9339	32.42

PLACEMENT BAND 1880-2022

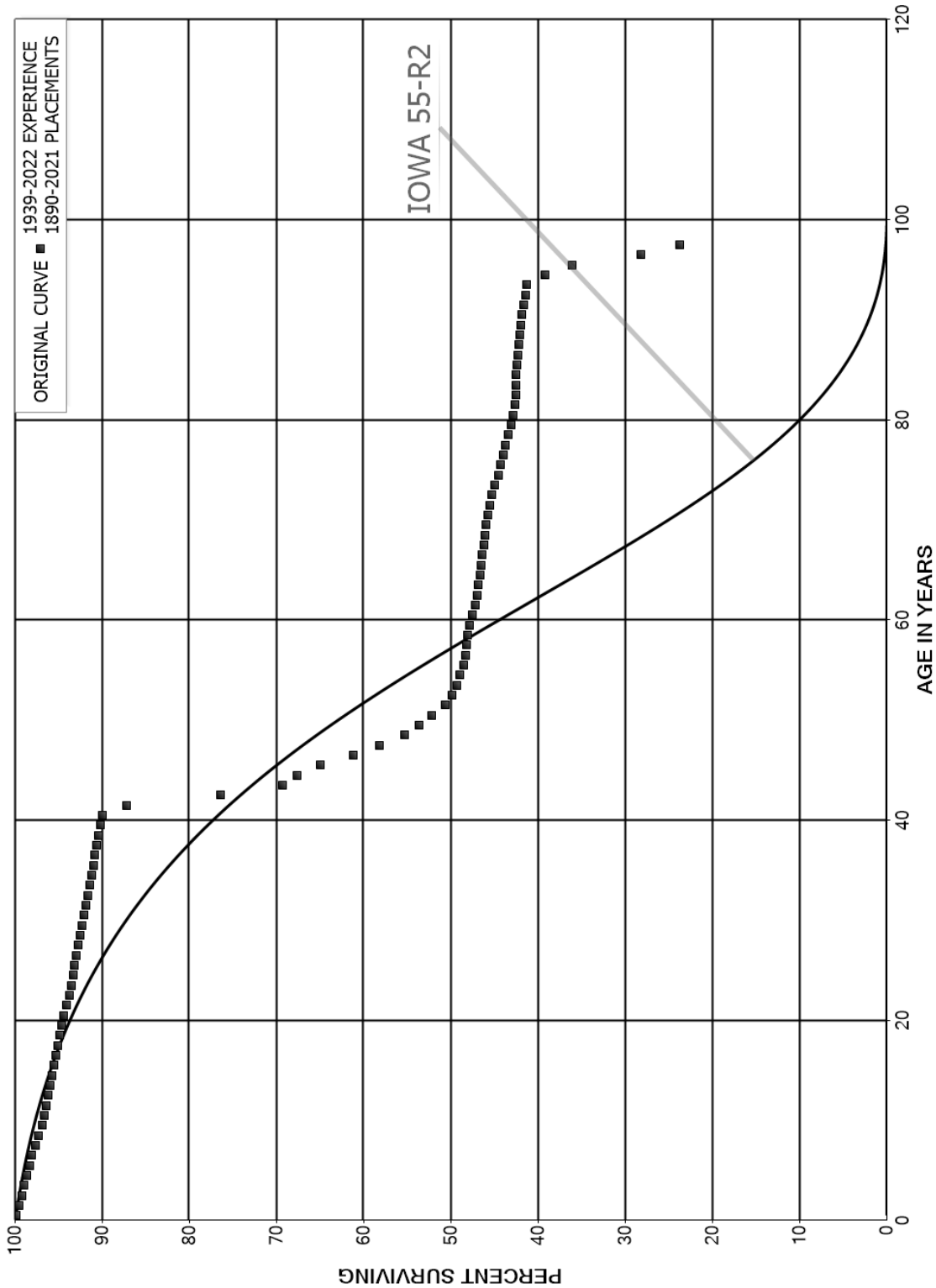
EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	12,282,424	625,997	0.0510	0.9490	30.28
40.5	11,332,592	723,193	0.0638	0.9362	28.73
41.5	10,494,903	692,673	0.0660	0.9340	26.90
42.5	9,393,994	796,464	0.0848	0.9152	25.13
43.5	8,331,731	792,554	0.0951	0.9049	23.00
44.5	7,169,446	457,087	0.0638	0.9362	20.81
45.5	6,480,588	489,818	0.0756	0.9244	19.48
46.5	5,784,057	440,884	0.0762	0.9238	18.01
47.5	4,969,917	398,820	0.0802	0.9198	16.64
48.5	4,350,763	285,685	0.0657	0.9343	15.30
49.5	3,851,494	252,242	0.0655	0.9345	14.30
50.5	3,290,102	221,385	0.0673	0.9327	13.36
51.5	2,917,900	217,759	0.0746	0.9254	12.46
52.5	2,540,176	239,129	0.0941	0.9059	11.53
53.5	2,089,949	214,268	0.1025	0.8975	10.45
54.5	1,747,929	217,049	0.1242	0.8758	9.37
55.5	1,533,304	177,853	0.1160	0.8840	8.21
56.5	1,356,433	151,713	0.1118	0.8882	7.26
57.5	1,194,194	148,128	0.1240	0.8760	6.45
58.5	1,027,501	129,363	0.1259	0.8741	5.65
59.5	846,740	122,427	0.1446	0.8554	4.94
60.5	683,550	100,970	0.1477	0.8523	4.22
61.5	582,047	98,679	0.1695	0.8305	3.60
62.5	472,370	77,622	0.1643	0.8357	2.99
63.5	378,274	55,763	0.1474	0.8526	2.50
64.5	304,791	44,052	0.1445	0.8555	2.13
65.5	240,378	42,479	0.1767	0.8233	1.82
66.5	193,862	30,273	0.1562	0.8438	1.50
67.5	162,947	26,632	0.1634	0.8366	1.27
68.5	136,686	21,886	0.1601	0.8399	1.06
69.5	116,347	25,119	0.2159	0.7841	0.89
70.5	92,863	21,224	0.2286	0.7714	0.70
71.5	71,994	11,147	0.1548	0.8452	0.54
72.5	62,308	8,846	0.1420	0.8580	0.45
73.5	53,954	7,323	0.1357	0.8643	0.39
74.5	46,891	8,652	0.1845	0.8155	0.34
75.5	38,397	6,373	0.1660	0.8340	0.27
76.5	32,175	4,821	0.1498	0.8502	0.23
77.5	27,354	3,071	0.1123	0.8877	0.19
78.5	24,282	2,305	0.0949	0.9051	0.17

PLACEMENT BAND 1880-2022

EXPERIENCE BAND 1938-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	21,977	980	0.0446	0.9554	0.16
80.5	21,022	1,653	0.0786	0.9214	0.15
81.5	19,368	2,325	0.1200	0.8800	0.14
82.5	17,043	996	0.0585	0.9415	0.12
83.5	16,047	2,184	0.1361	0.8639	0.11
84.5	13,863	2,356	0.1699	0.8301	0.10
85.5	11,564	2,013	0.1741	0.8259	0.08
86.5	9,551	1,739	0.1821	0.8179	0.07
87.5	7,819	1,325	0.1694	0.8306	0.06
88.5	6,494	439	0.0676	0.9324	0.05
89.5	6,027	1,103	0.1830	0.8170	0.04
90.5	4,924	1,718	0.3488	0.6512	0.04
91.5	3,207	806	0.2514	0.7486	0.02
92.5	2,400	279	0.1161	0.8839	0.02
93.5	2,122	930	0.4381	0.5619	0.02
94.5	1,149	347	0.3018	0.6982	0.01
95.5	802	465	0.5794	0.4206	0.01
96.5	337	337	1.0000	0.0000	0.00
97.5					0.00



PLACEMENT BAND 1890-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	94,622,843	108,321	0.0011	0.9989	100.00
0.5	94,640,201	330,916	0.0035	0.9965	99.89
1.5	90,317,493	287,451	0.0032	0.9968	99.54
2.5	87,050,384	269,960	0.0031	0.9969	99.22
3.5	83,686,368	264,166	0.0032	0.9968	98.91
4.5	80,961,014	229,936	0.0028	0.9972	98.60
5.5	77,678,484	234,018	0.0030	0.9970	98.32
6.5	74,822,531	294,278	0.0039	0.9961	98.02
7.5	72,385,528	282,051	0.0039	0.9961	97.64
8.5	70,405,671	273,745	0.0039	0.9961	97.26
9.5	68,664,402	164,870	0.0024	0.9976	96.88
10.5	66,573,778	166,832	0.0025	0.9975	96.65
11.5	64,486,204	146,334	0.0023	0.9977	96.40
12.5	61,652,161	137,416	0.0022	0.9978	96.19
13.5	58,423,333	136,420	0.0023	0.9977	95.97
14.5	55,389,761	132,609	0.0024	0.9976	95.75
15.5	52,822,765	123,652	0.0023	0.9977	95.52
16.5	50,471,365	136,601	0.0027	0.9973	95.29
17.5	47,555,346	108,806	0.0023	0.9977	95.04
18.5	44,920,869	102,409	0.0023	0.9977	94.82
19.5	43,054,680	103,251	0.0024	0.9976	94.60
20.5	40,405,152	153,566	0.0038	0.9962	94.38
21.5	38,695,989	113,871	0.0029	0.9971	94.02
22.5	37,643,288	78,254	0.0021	0.9979	93.74
23.5	36,436,866	83,049	0.0023	0.9977	93.55
24.5	35,088,140	74,807	0.0021	0.9979	93.33
25.5	33,349,405	73,295	0.0022	0.9978	93.13
26.5	31,629,338	78,959	0.0025	0.9975	92.93
27.5	30,138,017	74,926	0.0025	0.9975	92.70
28.5	28,547,391	68,982	0.0024	0.9976	92.47
29.5	27,035,847	57,663	0.0021	0.9979	92.24
30.5	24,979,654	53,603	0.0021	0.9979	92.05
31.5	23,376,641	53,725	0.0023	0.9977	91.85
32.5	22,092,438	52,950	0.0024	0.9976	91.64
33.5	21,011,817	49,069	0.0023	0.9977	91.42
34.5	19,744,858	47,048	0.0024	0.9976	91.20
35.5	18,623,508	41,966	0.0023	0.9977	90.99
36.5	17,680,421	36,765	0.0021	0.9979	90.78
37.5	16,602,370	38,498	0.0023	0.9977	90.59
38.5	15,573,782	32,613	0.0021	0.9979	90.38

PLACEMENT BAND 1890-2021

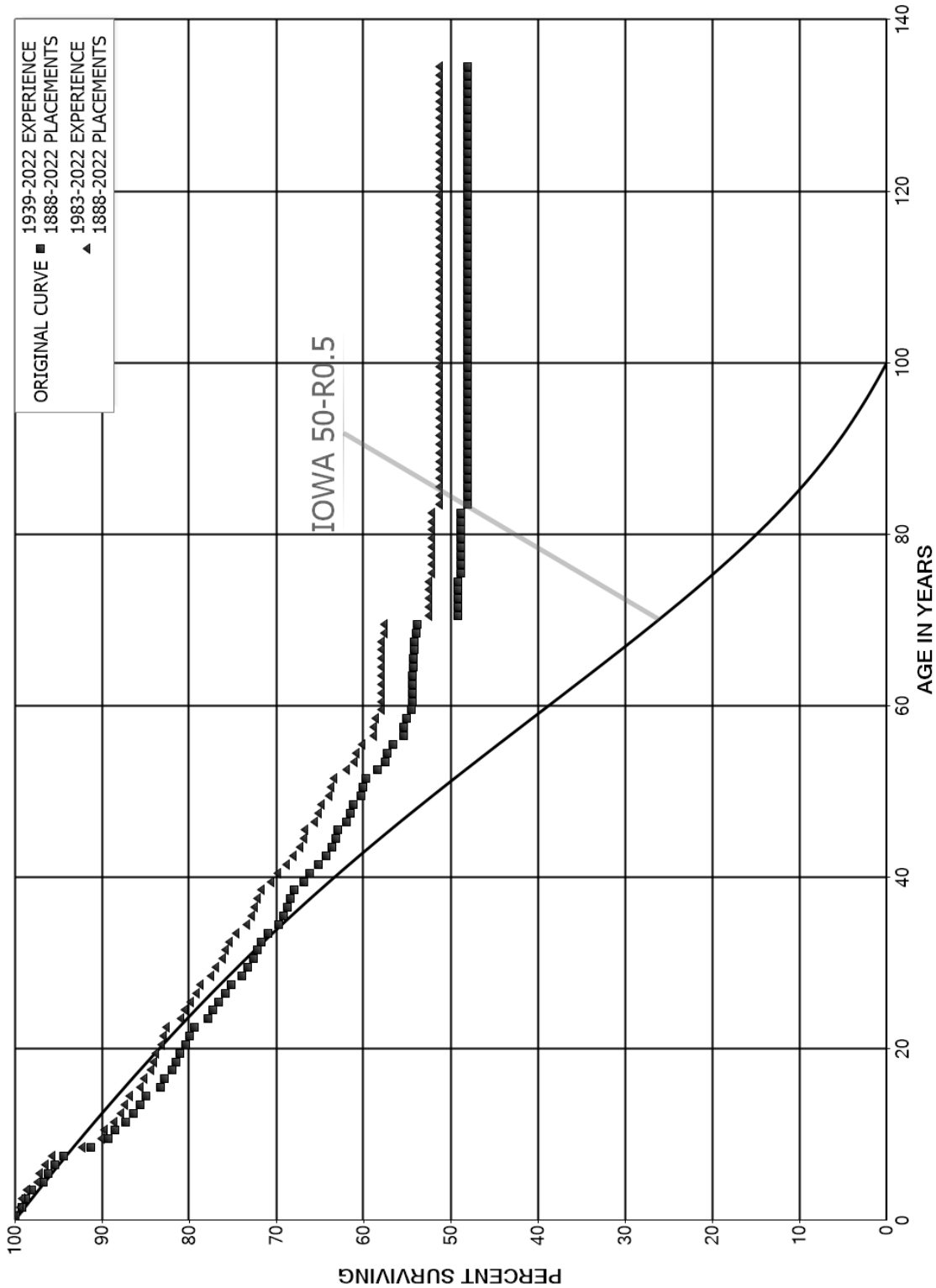
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	14,752,095	44,815	0.0030	0.9970	90.19
40.5	13,630,863	413,197	0.0303	0.9697	89.92
41.5	12,298,024	1,516,492	0.1233	0.8767	87.19
42.5	10,188,621	954,968	0.0937	0.9063	76.44
43.5	8,478,722	207,333	0.0245	0.9755	69.28
44.5	7,472,783	290,002	0.0388	0.9612	67.58
45.5	6,750,025	392,926	0.0582	0.9418	64.96
46.5	6,225,563	303,552	0.0488	0.9512	61.18
47.5	5,676,082	288,045	0.0507	0.9493	58.20
48.5	5,219,399	149,343	0.0286	0.9714	55.24
49.5	4,798,518	136,321	0.0284	0.9716	53.66
50.5	4,393,388	131,344	0.0299	0.9701	52.14
51.5	4,066,744	56,136	0.0138	0.9862	50.58
52.5	3,868,090	44,605	0.0115	0.9885	49.88
53.5	3,710,319	31,197	0.0084	0.9916	49.31
54.5	3,574,064	25,277	0.0071	0.9929	48.89
55.5	3,468,081	15,832	0.0046	0.9954	48.55
56.5	3,386,682	11,656	0.0034	0.9966	48.32
57.5	3,283,659	9,063	0.0028	0.9972	48.16
58.5	3,154,447	13,185	0.0042	0.9958	48.02
59.5	3,037,178	21,035	0.0069	0.9931	47.82
60.5	2,879,649	17,891	0.0062	0.9938	47.49
61.5	2,715,196	11,129	0.0041	0.9959	47.20
62.5	2,579,381	10,190	0.0040	0.9960	47.00
63.5	2,427,603	10,092	0.0042	0.9958	46.82
64.5	2,266,554	6,578	0.0029	0.9971	46.62
65.5	2,098,980	5,979	0.0028	0.9972	46.49
66.5	1,917,007	5,450	0.0028	0.9972	46.36
67.5	1,765,688	4,701	0.0027	0.9973	46.22
68.5	1,647,020	6,245	0.0038	0.9962	46.10
69.5	1,549,658	6,662	0.0043	0.9957	45.93
70.5	1,476,713	5,835	0.0040	0.9960	45.73
71.5	1,380,258	6,636	0.0048	0.9952	45.55
72.5	1,286,420	10,155	0.0079	0.9921	45.33
73.5	1,177,283	11,243	0.0096	0.9904	44.97
74.5	1,117,330	7,416	0.0066	0.9934	44.54
75.5	1,077,139	8,015	0.0074	0.9926	44.25
76.5	1,044,958	4,925	0.0047	0.9953	43.92
77.5	1,032,031	7,509	0.0073	0.9927	43.71
78.5	1,016,130	6,379	0.0063	0.9937	43.39

PLACEMENT BAND 1890-2021

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	996,396	5,381	0.0054	0.9946	43.12
80.5	968,104	6,045	0.0062	0.9938	42.89
81.5	936,436	1,425	0.0015	0.9985	42.62
82.5	917,347	1,369	0.0015	0.9985	42.55
83.5	905,896	779	0.0009	0.9991	42.49
84.5	844,462	1,686	0.0020	0.9980	42.45
85.5	798,484	1,811	0.0023	0.9977	42.37
86.5	757,222	1,119	0.0015	0.9985	42.27
87.5	733,473	2,931	0.0040	0.9960	42.21
88.5	694,850	1,990	0.0029	0.9971	42.04
89.5	658,313	1,281	0.0019	0.9981	41.92
90.5	623,355	3,505	0.0056	0.9944	41.84
91.5	588,440	2,751	0.0047	0.9953	41.60
92.5	540,873	2,270	0.0042	0.9958	41.41
93.5	488,388	23,857	0.0488	0.9512	41.24
94.5	414,429	33,224	0.0802	0.9198	39.22
95.5	324,179	70,723	0.2182	0.7818	36.08
96.5	202,114	31,935	0.1580	0.8420	28.21
97.5	115,374	501	0.0043	0.9957	23.75
98.5	64,182	365	0.0057	0.9943	23.65
99.5	7,546	200	0.0265	0.9735	23.51
100.5	1,709	646	0.3779	0.6221	22.89
101.5	1,078	165	0.1529	0.8471	14.24
102.5	938	192	0.2047	0.7953	12.06
103.5	803	59	0.0738	0.9262	9.59
104.5	751	139	0.1851	0.8149	8.89
105.5	612	29	0.0475	0.9525	7.24
106.5	654	496	0.7593	0.2407	6.90
107.5	166	103	0.6184	0.3816	1.66
108.5	103	57	0.5522	0.4478	0.63
109.5	46	40	0.8612	0.1388	0.28
110.5	82	6	0.0780	0.9220	0.04
111.5	85	76	0.8961	0.1039	0.04
112.5	23	9	0.3900	0.6100	0.00
113.5	14	14	1.0000		0.00
114.5					



PLACEMENT BAND 1888-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	14,627,986	11,843	0.0008	0.9992	100.00
0.5	14,738,871	117,135	0.0079	0.9921	99.92
1.5	13,654,093	57,625	0.0042	0.9958	99.12
2.5	13,296,548	92,474	0.0070	0.9930	98.71
3.5	12,973,651	165,791	0.0128	0.9872	98.02
4.5	12,176,679	71,942	0.0059	0.9941	96.77
5.5	10,450,968	86,748	0.0083	0.9917	96.20
6.5	9,789,988	100,127	0.0102	0.9898	95.40
7.5	9,335,082	307,563	0.0329	0.9671	94.42
8.5	8,856,165	198,434	0.0224	0.9776	91.31
9.5	7,551,204	67,336	0.0089	0.9911	89.26
10.5	7,030,135	90,225	0.0128	0.9872	88.47
11.5	6,913,091	75,991	0.0110	0.9890	87.33
12.5	6,844,223	57,253	0.0084	0.9916	86.37
13.5	6,797,734	59,114	0.0087	0.9913	85.65
14.5	6,706,794	125,383	0.0187	0.9813	84.91
15.5	6,446,906	40,583	0.0063	0.9937	83.32
16.5	6,409,656	68,920	0.0108	0.9892	82.79
17.5	6,360,680	33,356	0.0052	0.9948	81.90
18.5	6,146,464	33,014	0.0054	0.9946	81.47
19.5	5,919,700	50,674	0.0086	0.9914	81.04
20.5	5,739,677	31,734	0.0055	0.9945	80.34
21.5	5,610,991	32,424	0.0058	0.9942	79.90
22.5	5,437,804	110,156	0.0203	0.9797	79.44
23.5	5,199,360	39,130	0.0075	0.9925	77.83
24.5	5,073,438	44,422	0.0088	0.9912	77.24
25.5	4,876,386	49,562	0.0102	0.9898	76.57
26.5	4,696,361	40,162	0.0086	0.9914	75.79
27.5	4,464,148	68,491	0.0153	0.9847	75.14
28.5	4,226,224	38,941	0.0092	0.9908	73.99
29.5	4,115,062	40,270	0.0098	0.9902	73.31
30.5	3,970,489	21,560	0.0054	0.9946	72.59
31.5	3,551,750	23,592	0.0066	0.9934	72.19
32.5	3,290,742	37,005	0.0112	0.9888	71.71
33.5	2,816,046	47,126	0.0167	0.9833	70.91
34.5	2,298,270	16,708	0.0073	0.9927	69.72
35.5	2,154,052	15,368	0.0071	0.9929	69.21
36.5	1,775,946	9,508	0.0054	0.9946	68.72
37.5	1,621,594	10,798	0.0067	0.9933	68.35
38.5	1,513,166	24,052	0.0159	0.9841	67.90

PLACEMENT BAND 1888-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,404,489	14,406	0.0103	0.9897	66.82
40.5	1,224,089	18,167	0.0148	0.9852	66.13
41.5	1,083,329	13,574	0.0125	0.9875	65.15
42.5	963,544	10,944	0.0114	0.9886	64.33
43.5	833,836	5,714	0.0069	0.9931	63.60
44.5	810,393	2,434	0.0030	0.9970	63.17
45.5	796,023	13,029	0.0164	0.9836	62.98
46.5	747,372	5,518	0.0074	0.9926	61.95
47.5	725,772	4,227	0.0058	0.9942	61.49
48.5	709,210	10,394	0.0147	0.9853	61.13
49.5	648,324	1,808	0.0028	0.9972	60.24
50.5	603,525	3,157	0.0052	0.9948	60.07
51.5	518,767	11,865	0.0229	0.9771	59.75
52.5	473,580	7,007	0.0148	0.9852	58.39
53.5	430,855	1,804	0.0042	0.9958	57.52
54.5	399,838	4,657	0.0116	0.9884	57.28
55.5	375,441	8,020	0.0214	0.9786	56.62
56.5	332,617	344	0.0010	0.9990	55.41
57.5	281,443	1,251	0.0044	0.9956	55.35
58.5	265,008	3,119	0.0118	0.9882	55.10
59.5	243,082	89	0.0004	0.9996	54.45
60.5	210,300	120	0.0006	0.9994	54.43
61.5	193,215	23	0.0001	0.9999	54.40
62.5	173,583	11	0.0001	0.9999	54.40
63.5	142,545	254	0.0018	0.9982	54.39
64.5	126,543	89	0.0007	0.9993	54.30
65.5	99,494	89	0.0009	0.9991	54.26
66.5	69,521		0.0000	1.0000	54.21
67.5	49,701	264	0.0053	0.9947	54.21
68.5	35,739	30	0.0008	0.9992	53.92
69.5	25,279	2,227	0.0881	0.9119	53.88
70.5	14,677		0.0000	1.0000	49.13
71.5	13,471		0.0000	1.0000	49.13
72.5	11,544		0.0000	1.0000	49.13
73.5	9,465		0.0000	1.0000	49.13
74.5	9,316	54	0.0058	0.9942	49.13
75.5	8,429		0.0000	1.0000	48.84
76.5	8,107		0.0000	1.0000	48.84
77.5	7,097		0.0000	1.0000	48.84
78.5	7,120		0.0000	1.0000	48.84

PLACEMENT BAND 1888-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	4,571	36	0.0000	1.0000	48.84
80.5	3,461		0.0000	1.0000	48.84
81.5	2,139		0.0000	1.0000	48.84
82.5	2,136		0.0166	0.9834	48.84
83.5	2,019		0.0000	1.0000	48.03
84.5	2,019		0.0000	1.0000	48.03
85.5	1,917		0.0000	1.0000	48.03
86.5	1,845		0.0000	1.0000	48.03
87.5	1,845		0.0000	1.0000	48.03
88.5	1,706		0.0000	1.0000	48.03
89.5	1,706		0.0000	1.0000	48.03
90.5	1,706		0.0000	1.0000	48.03
91.5	1,706		0.0000	1.0000	48.03
92.5	1,630		0.0000	1.0000	48.03
93.5	1,630		0.0000	1.0000	48.03
94.5	1,588		0.0000	1.0000	48.03
95.5	1,463		0.0000	1.0000	48.03
96.5	1,349		0.0000	1.0000	48.03
97.5	1,053		0.0000	1.0000	48.03
98.5	1,053		0.0000	1.0000	48.03
99.5	134		0.0000	1.0000	48.03
100.5	134		0.0000	1.0000	48.03
101.5	134		0.0000	1.0000	48.03
102.5	134		0.0000	1.0000	48.03
103.5	134		0.0000	1.0000	48.03
104.5	134		0.0000	1.0000	48.03
105.5	112		0.0000	1.0000	48.03
106.5	112		0.0000	1.0000	48.03
107.5	112		0.0000	1.0000	48.03
108.5	112		0.0000	1.0000	48.03
109.5	112		0.0000	1.0000	48.03
110.5	112		0.0000	1.0000	48.03
111.5	112		0.0000	1.0000	48.03
112.5	112		0.0000	1.0000	48.03
113.5	112		0.0000	1.0000	48.03
114.5	112		0.0000	1.0000	48.03
115.5	112		0.0000	1.0000	48.03
116.5	112		0.0000	1.0000	48.03
117.5	112		0.0000	1.0000	48.03
118.5	112		0.0000	1.0000	48.03

PLACEMENT BAND 1888-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	93		0.0000	1.0000	48.03
120.5	93		0.0000	1.0000	48.03
121.5	93		0.0000	1.0000	48.03
122.5	93		0.0000	1.0000	48.03
123.5	93		0.0000	1.0000	48.03
124.5	93		0.0000	1.0000	48.03
125.5	93		0.0000	1.0000	48.03
126.5	93		0.0000	1.0000	48.03
127.5	93		0.0000	1.0000	48.03
128.5	93		0.0000	1.0000	48.03
129.5	93		0.0000	1.0000	48.03
130.5	93		0.0000	1.0000	48.03
131.5	93		0.0000	1.0000	48.03
132.5	93		0.0000	1.0000	48.03
133.5	93		0.0000	1.0000	48.03
134.5					48.03

PLACEMENT BAND 1888-2022

EXPERIENCE BAND 1983-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	11,761,820	3,419	0.0003	0.9997	100.00
0.5	12,050,927	82,293	0.0068	0.9932	99.97
1.5	11,137,585	24,258	0.0022	0.9978	99.29
2.5	10,864,480	57,185	0.0053	0.9947	99.07
3.5	10,807,846	133,193	0.0123	0.9877	98.55
4.5	10,076,885	33,721	0.0033	0.9967	97.34
5.5	8,445,481	49,490	0.0059	0.9941	97.01
6.5	7,904,928	66,779	0.0084	0.9916	96.44
7.5	7,529,733	273,216	0.0363	0.9637	95.63
8.5	7,121,479	169,523	0.0238	0.9762	92.16
9.5	5,952,631	26,620	0.0045	0.9955	89.96
10.5	5,639,376	69,869	0.0124	0.9876	89.56
11.5	5,701,788	44,019	0.0077	0.9923	88.45
12.5	5,771,607	34,710	0.0060	0.9940	87.77
13.5	5,790,164	33,683	0.0058	0.9942	87.24
14.5	5,774,287	84,842	0.0147	0.9853	86.73
15.5	5,604,839	23,416	0.0042	0.9958	85.46
16.5	5,641,652	51,162	0.0091	0.9909	85.10
17.5	5,655,141	23,480	0.0042	0.9958	84.33
18.5	5,468,702	15,308	0.0028	0.9972	83.98
19.5	5,291,113	39,953	0.0076	0.9924	83.75
20.5	5,165,063	16,485	0.0032	0.9968	83.11
21.5	5,103,690	22,770	0.0045	0.9955	82.85
22.5	4,997,197	99,973	0.0200	0.9800	82.48
23.5	4,817,602	27,397	0.0057	0.9943	80.83
24.5	4,734,878	34,839	0.0074	0.9926	80.37
25.5	4,585,856	39,477	0.0086	0.9914	79.78
26.5	4,487,859	29,185	0.0065	0.9935	79.09
27.5	4,308,351	62,808	0.0146	0.9854	78.58
28.5	4,103,967	33,071	0.0081	0.9919	77.43
29.5	4,015,943	37,871	0.0094	0.9906	76.81
30.5	3,897,542	19,540	0.0050	0.9950	76.08
31.5	3,495,245	19,528	0.0056	0.9944	75.70
32.5	3,241,342	33,999	0.0105	0.9895	75.28
33.5	2,782,429	45,965	0.0165	0.9835	74.49
34.5	2,266,935	14,954	0.0066	0.9934	73.26
35.5	2,124,531	12,010	0.0057	0.9943	72.77
36.5	1,756,375	7,888	0.0045	0.9955	72.36
37.5	1,606,236	9,881	0.0062	0.9938	72.04
38.5	1,499,709	23,796	0.0159	0.9841	71.59

PLACEMENT BAND 1888-2022

EXPERIENCE BAND 1983-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,394,144	13,807	0.0099	0.9901	70.46
40.5	1,216,028	17,933	0.0147	0.9853	69.76
41.5	1,075,936	12,998	0.0121	0.9879	68.73
42.5	956,864	10,655	0.0111	0.9889	67.90
43.5	827,388	5,457	0.0066	0.9934	67.15
44.5	804,205	1,277	0.0016	0.9984	66.70
45.5	791,194	12,798	0.0162	0.9838	66.60
46.5	743,088	4,842	0.0065	0.9935	65.52
47.5	722,112	3,707	0.0051	0.9949	65.09
48.5	706,134	10,324	0.0146	0.9854	64.76
49.5	645,319	1,690	0.0026	0.9974	63.81
50.5	600,544	3,069	0.0051	0.9949	63.64
51.5	515,874	11,781	0.0228	0.9772	63.32
52.5	470,831	6,926	0.0147	0.9853	61.87
53.5	428,528	1,708	0.0040	0.9960	60.96
54.5	397,679	4,533	0.0114	0.9886	60.72
55.5	373,531	7,870	0.0211	0.9789	60.03
56.5	330,918	319	0.0010	0.9990	58.76
57.5	280,064	915	0.0033	0.9967	58.71
58.5	263,965	3,113	0.0118	0.9882	58.51
59.5	242,090		0.0000	1.0000	57.82
60.5	209,483	120	0.0006	0.9994	57.82
61.5	192,409		0.0000	1.0000	57.79
62.5	172,800	11	0.0001	0.9999	57.79
63.5	141,762		0.0000	1.0000	57.79
64.5	126,014		0.0000	1.0000	57.79
65.5	99,076		0.0000	1.0000	57.79
66.5	69,192		0.0000	1.0000	57.79
67.5	49,372	251	0.0051	0.9949	57.79
68.5	35,460		0.0000	1.0000	57.49
69.5	25,030	2,227	0.0890	0.9110	57.49
70.5	14,428		0.0000	1.0000	52.38
71.5	13,222		0.0000	1.0000	52.38
72.5	11,295		0.0000	1.0000	52.38
73.5	9,215		0.0000	1.0000	52.38
74.5	9,121	54	0.0059	0.9941	52.38
75.5	8,233		0.0000	1.0000	52.07
76.5	7,912		0.0000	1.0000	52.07
77.5	6,902		0.0000	1.0000	52.07
78.5	7,008		0.0000	1.0000	52.07

PLACEMENT BAND 1888-2022

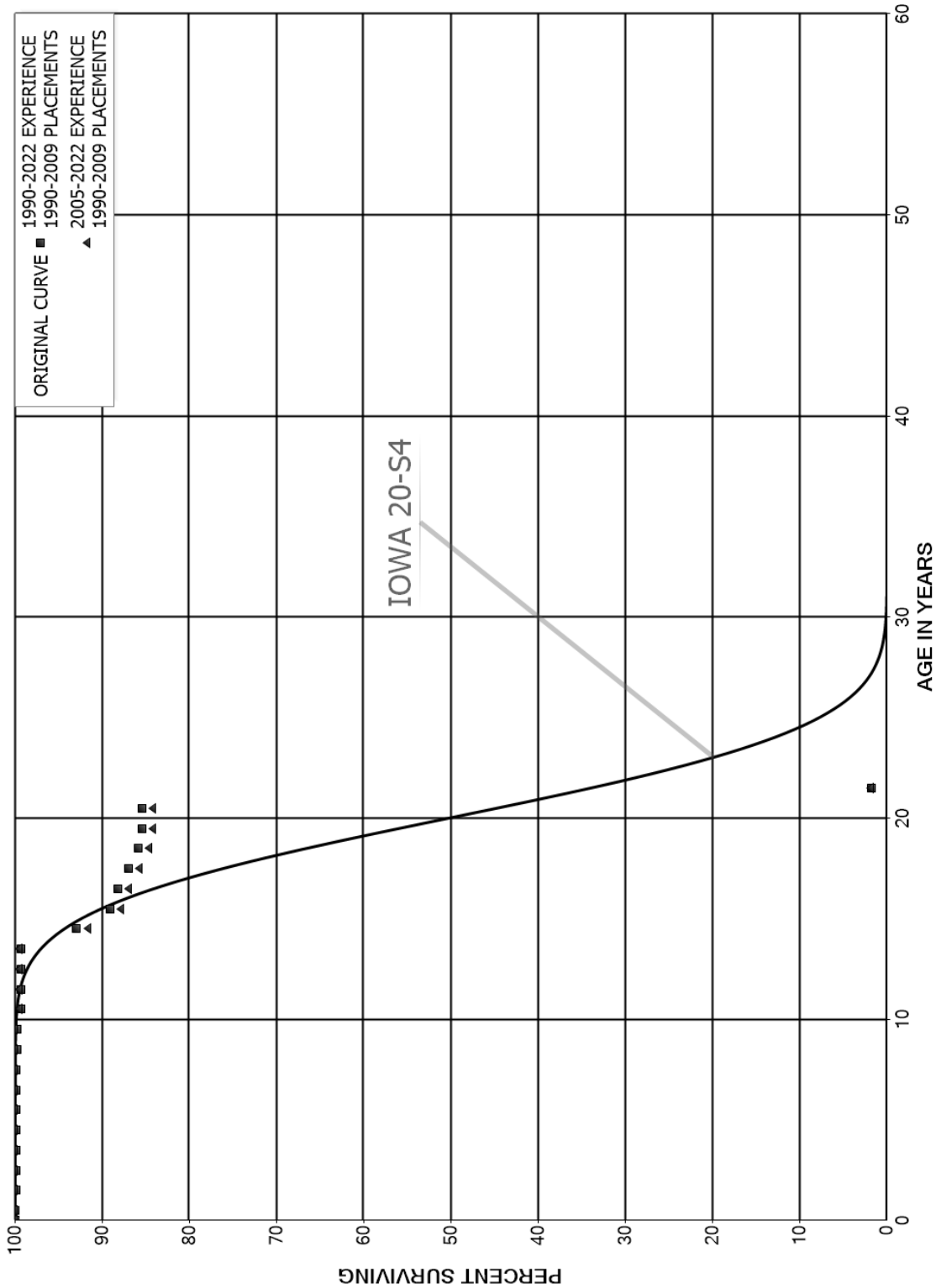
EXPERIENCE BAND 1983-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	4,479	36	0.0000	1.0000	52.07
80.5	3,368		0.0000	1.0000	52.07
81.5	2,046		0.0000	1.0000	52.07
82.5	2,044		0.0174	0.9826	52.07
83.5	1,927		0.0000	1.0000	51.16
84.5	1,927		0.0000	1.0000	51.16
85.5	1,825		0.0000	1.0000	51.16
86.5	1,753		0.0000	1.0000	51.16
87.5	1,753		0.0000	1.0000	51.16
88.5	1,613		0.0000	1.0000	51.16
89.5	1,613		0.0000	1.0000	51.16
90.5	1,613		0.0000	1.0000	51.16
91.5	1,613		0.0000	1.0000	51.16
92.5	1,537		0.0000	1.0000	51.16
93.5	1,537		0.0000	1.0000	51.16
94.5	1,588		0.0000	1.0000	51.16
95.5	1,463		0.0000	1.0000	51.16
96.5	1,349		0.0000	1.0000	51.16
97.5	1,053		0.0000	1.0000	51.16
98.5	1,053		0.0000	1.0000	51.16
99.5	134		0.0000	1.0000	51.16
100.5	134		0.0000	1.0000	51.16
101.5	134		0.0000	1.0000	51.16
102.5	134		0.0000	1.0000	51.16
103.5	134		0.0000	1.0000	51.16
104.5	134		0.0000	1.0000	51.16
105.5	112		0.0000	1.0000	51.16
106.5	112		0.0000	1.0000	51.16
107.5	112		0.0000	1.0000	51.16
108.5	112		0.0000	1.0000	51.16
109.5	112		0.0000	1.0000	51.16
110.5	112		0.0000	1.0000	51.16
111.5	112		0.0000	1.0000	51.16
112.5	112		0.0000	1.0000	51.16
113.5	112		0.0000	1.0000	51.16
114.5	112		0.0000	1.0000	51.16
115.5	112		0.0000	1.0000	51.16
116.5	112		0.0000	1.0000	51.16
117.5	112		0.0000	1.0000	51.16
118.5	112		0.0000	1.0000	51.16

PLACEMENT BAND 1888-2022

EXPERIENCE BAND 1983-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	93		0.0000	1.0000	51.16
120.5	93		0.0000	1.0000	51.16
121.5	93		0.0000	1.0000	51.16
122.5	93		0.0000	1.0000	51.16
123.5	93		0.0000	1.0000	51.16
124.5	93		0.0000	1.0000	51.16
125.5	93		0.0000	1.0000	51.16
126.5	93		0.0000	1.0000	51.16
127.5	93		0.0000	1.0000	51.16
128.5	93		0.0000	1.0000	51.16
129.5	93		0.0000	1.0000	51.16
130.5	93		0.0000	1.0000	51.16
131.5	93		0.0000	1.0000	51.16
132.5	93		0.0000	1.0000	51.16
133.5	93		0.0000	1.0000	51.16
134.5					51.16



PLACEMENT BAND 1990-2009

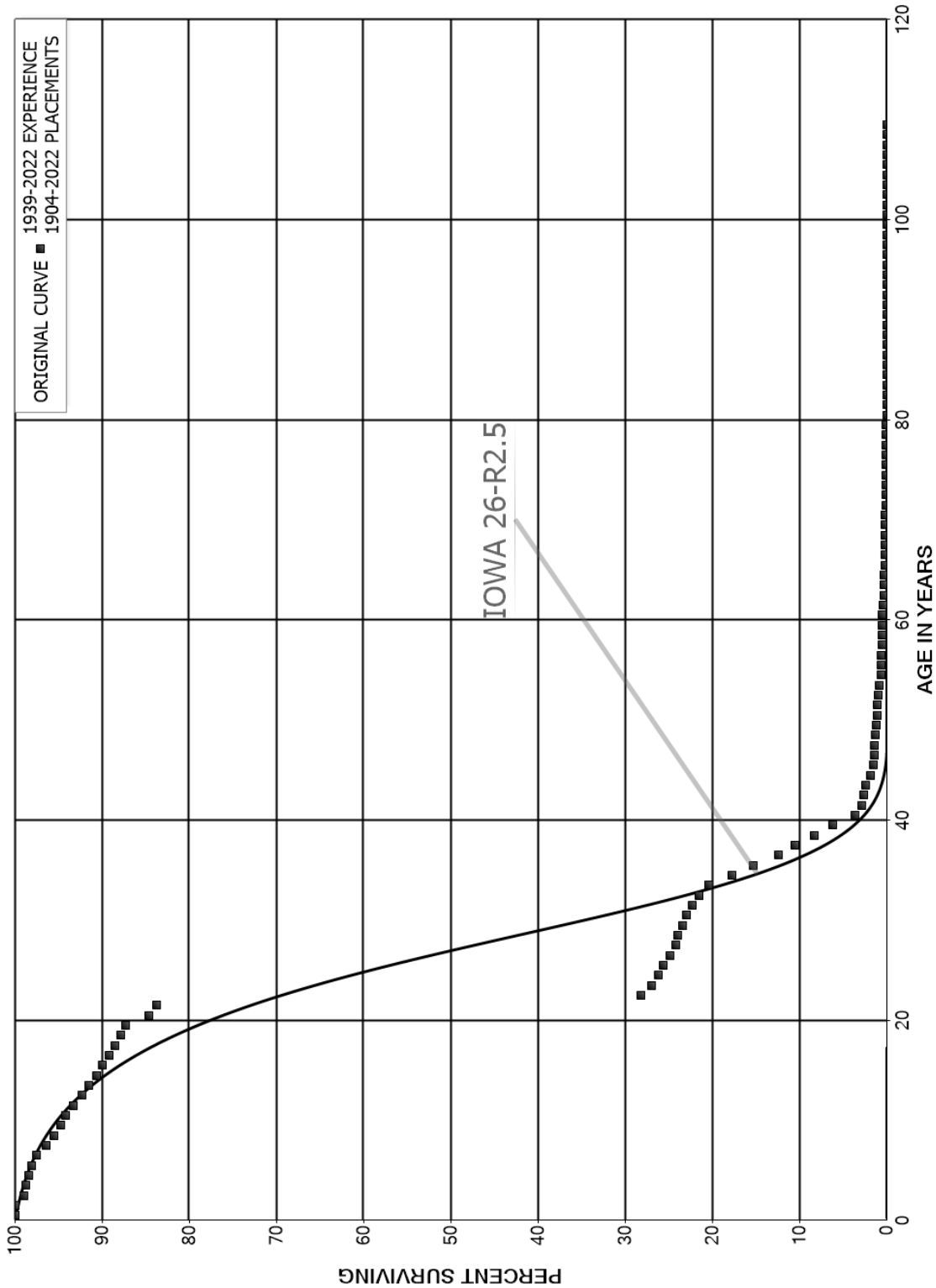
EXPERIENCE BAND 1990-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	21,352,257	4,028	0.0002	0.9998	100.00
0.5	21,346,069	41,511	0.0019	0.9981	99.98
1.5	21,491,726		0.0000	1.0000	99.79
2.5	21,444,607		0.0000	1.0000	99.79
3.5	21,266,837		0.0000	1.0000	99.79
4.5	21,091,945		0.0000	1.0000	99.79
5.5	21,091,945		0.0000	1.0000	99.79
6.5	21,257,439		0.0000	1.0000	99.79
7.5	21,257,439	5,136	0.0002	0.9998	99.79
8.5	21,252,303		0.0000	1.0000	99.76
9.5	21,252,303	97,666	0.0046	0.9954	99.76
10.5	21,154,636		0.0000	1.0000	99.30
11.5	21,154,636		0.0000	1.0000	99.30
12.5	21,154,636		0.0000	1.0000	99.30
13.5	21,154,636	1,364,818	0.0645	0.9355	99.30
14.5	19,789,818	808,644	0.0409	0.9591	92.90
15.5	18,981,174	203,634	0.0107	0.9893	89.10
16.5	18,777,540	243,958	0.0130	0.9870	88.15
17.5	3,966,769	51,879	0.0131	0.9869	87.00
18.5	3,914,891	20,604	0.0053	0.9947	85.86
19.5	3,894,287		0.0000	1.0000	85.41
20.5	3,894,287	3,816,567	0.9800	0.0200	85.41
21.5	77,720		0.0000	1.0000	1.70
22.5	77,720		0.0000	1.0000	1.70
23.5	77,720		0.0000	1.0000	1.70
24.5	53,681		0.0000	1.0000	1.70
25.5					1.70

PLACEMENT BAND 1990-2009

EXPERIENCE BAND 2005-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	14,619,068		0.0000	1.0000	100.00
0.5	14,619,068		0.0000	1.0000	100.00
1.5	14,619,068		0.0000	1.0000	100.00
2.5	14,571,949		0.0000	1.0000	100.00
3.5	14,571,949		0.0000	1.0000	100.00
4.5	14,571,949		0.0000	1.0000	100.00
5.5	14,571,949		0.0000	1.0000	100.00
6.5	14,595,987		0.0000	1.0000	100.00
7.5	16,014,487	5,136	0.0003	0.9997	100.00
8.5	16,915,661		0.0000	1.0000	99.97
9.5	17,119,295	97,666	0.0057	0.9943	99.97
10.5	17,021,629		0.0000	1.0000	99.40
11.5	17,073,507		0.0000	1.0000	99.40
12.5	17,094,111		0.0000	1.0000	99.40
13.5	17,094,111	1,364,818	0.0798	0.9202	99.40
14.5	19,789,818	808,644	0.0409	0.9591	91.46
15.5	18,981,174	203,634	0.0107	0.9893	87.72
16.5	18,777,540	243,958	0.0130	0.9870	86.78
17.5	3,966,769	51,879	0.0131	0.9869	85.66
18.5	3,914,891	20,604	0.0053	0.9947	84.54
19.5	3,894,287		0.0000	1.0000	84.09
20.5	3,894,287	3,816,567	0.9800	0.0200	84.09
21.5	77,720		0.0000	1.0000	1.68
22.5	77,720		0.0000	1.0000	1.68
23.5	77,720		0.0000	1.0000	1.68
24.5	53,681		0.0000	1.0000	1.68
25.5					1.68



PLACEMENT BAND 1904-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	21,714,350	5,586	0.0003	0.9997	100.00
0.5	20,709,701	8,795	0.0004	0.9996	99.97
1.5	15,342,268	154,912	0.0101	0.9899	99.93
2.5	13,947,627	33,638	0.0024	0.9976	98.92
3.5	13,667,556	42,806	0.0031	0.9969	98.68
4.5	11,977,574	40,867	0.0034	0.9966	98.38
5.5	9,886,677	56,356	0.0057	0.9943	98.04
6.5	9,234,476	106,306	0.0115	0.9885	97.48
7.5	7,908,047	70,683	0.0089	0.9911	96.36
8.5	7,411,288	57,048	0.0077	0.9923	95.50
9.5	7,294,487	42,734	0.0059	0.9941	94.76
10.5	6,993,280	71,482	0.0102	0.9898	94.21
11.5	6,530,148	65,181	0.0100	0.9900	93.24
12.5	6,355,522	57,622	0.0091	0.9909	92.31
13.5	6,302,265	60,262	0.0096	0.9904	91.48
14.5	6,139,159	43,119	0.0070	0.9930	90.60
15.5	5,924,683	50,938	0.0086	0.9914	89.97
16.5	5,650,242	40,633	0.0072	0.9928	89.19
17.5	5,503,684	47,133	0.0086	0.9914	88.55
18.5	5,370,429	33,587	0.0063	0.9937	87.79
19.5	5,310,224	156,976	0.0296	0.9704	87.24
20.5	5,082,930	54,635	0.0107	0.9893	84.66
21.5	4,879,016	3,238,396	0.6637	0.3363	83.75
22.5	1,641,801	67,473	0.0411	0.9589	28.16
23.5	1,579,706	51,747	0.0328	0.9672	27.01
24.5	1,529,885	28,690	0.0188	0.9812	26.12
25.5	1,500,144	48,185	0.0321	0.9679	25.63
26.5	1,451,042	35,445	0.0244	0.9756	24.81
27.5	1,412,767	16,665	0.0118	0.9882	24.20
28.5	1,396,733	31,211	0.0223	0.9777	23.92
29.5	1,367,741	23,865	0.0174	0.9826	23.38
30.5	1,342,536	37,301	0.0278	0.9722	22.97
31.5	1,308,271	48,723	0.0372	0.9628	22.34
32.5	1,254,482	65,184	0.0520	0.9480	21.50
33.5	1,189,552	156,436	0.1315	0.8685	20.39
34.5	1,032,582	140,162	0.1357	0.8643	17.71
35.5	890,961	169,792	0.1906	0.8094	15.30
36.5	721,295	109,336	0.1516	0.8484	12.39
37.5	612,891	128,551	0.2097	0.7903	10.51
38.5	480,893	121,152	0.2519	0.7481	8.30

PLACEMENT BAND 1904-2022

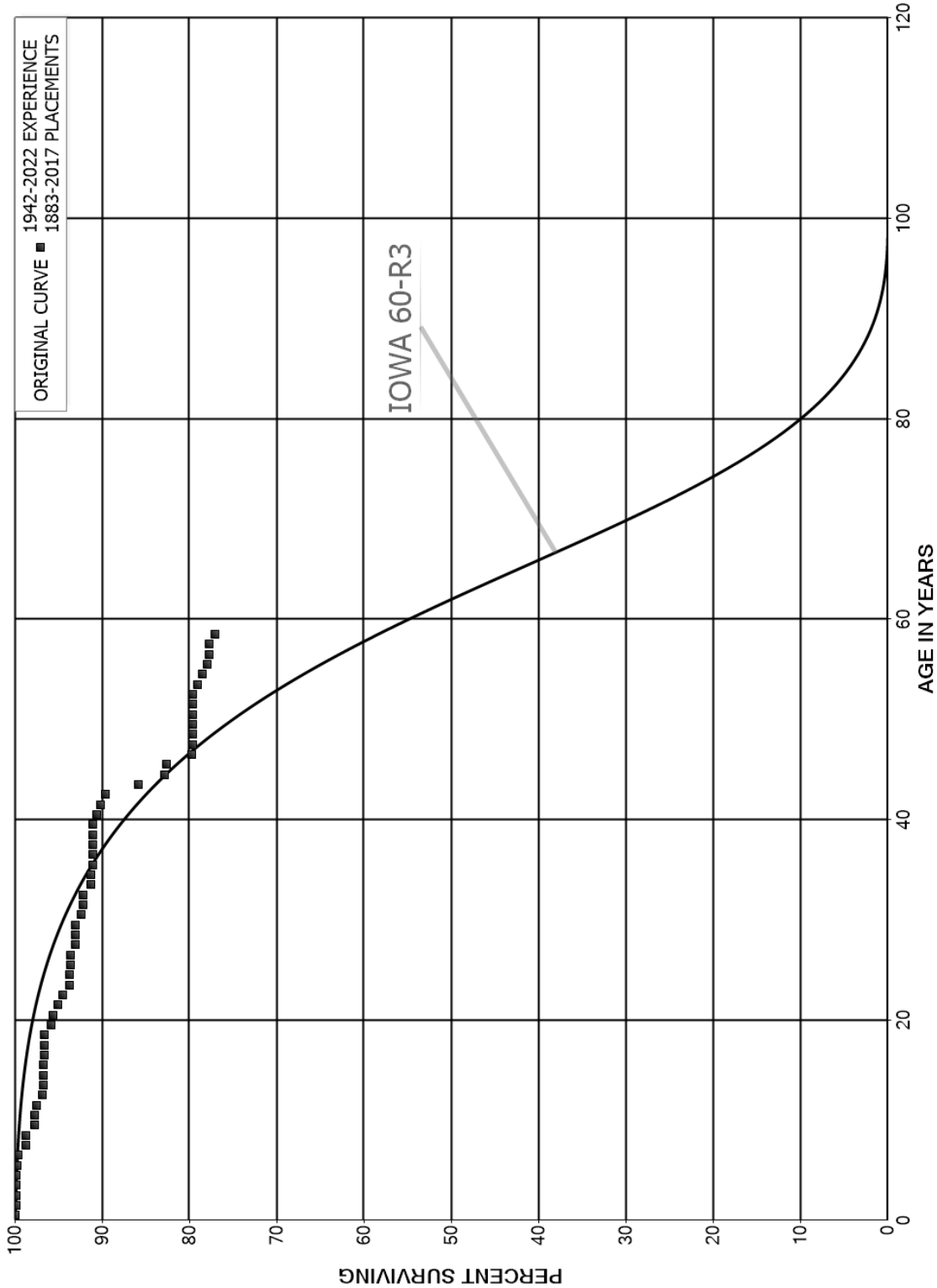
EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	361,164	148,503	0.4112	0.5888	6.21
40.5	212,364	48,490	0.2283	0.7717	3.66
41.5	164,385	15,144	0.0921	0.9079	2.82
42.5	148,949	11,590	0.0778	0.9222	2.56
43.5	139,406	30,864	0.2214	0.7786	2.36
44.5	107,982	18,251	0.1690	0.8310	1.84
45.5	89,585	6,833	0.0763	0.9237	1.53
46.5	82,680	3,637	0.0440	0.9560	1.41
47.5	79,043	4,398	0.0556	0.9444	1.35
48.5	74,432	5,295	0.0711	0.9289	1.28
49.5	69,550	5,337	0.0767	0.9233	1.18
50.5	64,213	2,657	0.0414	0.9586	1.09
51.5	61,446	8,166	0.1329	0.8671	1.05
52.5	53,355	6,902	0.1294	0.8706	0.91
53.5	46,572	9,312	0.2000	0.8000	0.79
54.5	37,259	1,095	0.0294	0.9706	0.63
55.5	36,165	2,769	0.0766	0.9234	0.61
56.5	33,201	1,051	0.0316	0.9684	0.57
57.5	32,070	659	0.0205	0.9795	0.55
58.5	31,329	2,912	0.0930	0.9070	0.54
59.5	29,258	1,291	0.0441	0.9559	0.49
60.5	28,315	7,540	0.2663	0.7337	0.47
61.5	20,860	5,166	0.2476	0.7524	0.34
62.5	15,694	797	0.0508	0.9492	0.26
63.5	15,497	681	0.0439	0.9561	0.24
64.5	13,858	442	0.0319	0.9681	0.23
65.5	13,068	1,327	0.1015	0.8985	0.23
66.5	11,656	1,436	0.1232	0.8768	0.20
67.5	10,221	1,477	0.1445	0.8555	0.18
68.5	7,877	481	0.0610	0.9390	0.15
69.5	7,397	1,022	0.1381	0.8619	0.14
70.5	6,375	1,025	0.1607	0.8393	0.12
71.5	5,350	1,983	0.3707	0.6293	0.10
72.5	3,367	347	0.1032	0.8968	0.07
73.5	3,019	652	0.2160	0.7840	0.06
74.5	2,367	31	0.0132	0.9868	0.05
75.5	2,317	1,578	0.6810	0.3190	0.05
76.5	964	159	0.1654	0.8346	0.01
77.5	580	7	0.0123	0.9877	0.01
78.5	573		0.0000	1.0000	0.01

PLACEMENT BAND 1904-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	573	205	0.3579	0.6421	0.01
80.5	368	257	0.6973	0.3027	0.01
81.5	111		0.0000	1.0000	0.00
82.5	111		0.0000	1.0000	0.00
83.5	111		0.0000	1.0000	0.00
84.5	111	16	0.1434	0.8566	0.00
85.5	95	85	0.8863	0.1137	0.00
86.5	11		0.0000	1.0000	0.00
87.5	11		0.0000	1.0000	0.00
88.5	11		0.0000	1.0000	0.00
89.5	11		0.0000	1.0000	0.00
90.5	11		0.0000	1.0000	0.00
91.5	11		0.0000	1.0000	0.00
92.5	11		0.0000	1.0000	0.00
93.5	11		0.0000	1.0000	0.00
94.5	11		0.0000	1.0000	0.00
95.5	11		0.0000	1.0000	0.00
96.5	22	0	0.0055	0.9945	0.00
97.5	22		0.0000	1.0000	0.00
98.5	22		0.0000	1.0000	0.00
99.5	22		0.0000	1.0000	0.00
100.5	22		0.0000	1.0000	0.00
101.5	11		0.0000	1.0000	0.00
102.5	11		0.0000	1.0000	0.00
103.5	11		0.0000	1.0000	0.00
104.5	11		0.0000	1.0000	0.00
105.5	11		0.0000	1.0000	0.00
106.5	11		0.0000	1.0000	0.00
107.5	11		0.0000	1.0000	0.00
108.5	11	11	1.0000		0.00
109.5					



PLACEMENT BAND 1883-2017

EXPERIENCE BAND 1942-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	54,679		0.0000	1.0000	100.00
0.5	54,803	68	0.0012	0.9988	100.00
1.5	54,764		0.0000	1.0000	99.88
2.5	54,764		0.0000	1.0000	99.88
3.5	55,403		0.0000	1.0000	99.88
4.5	55,529	80	0.0014	0.9986	99.88
5.5	47,437	41	0.0009	0.9991	99.73
6.5	47,651	463	0.0097	0.9903	99.65
7.5	47,413		0.0000	1.0000	98.68
8.5	46,847	439	0.0094	0.9906	98.68
9.5	46,628		0.0000	1.0000	97.75
10.5	46,692	131	0.0028	0.9972	97.75
11.5	46,625	287	0.0062	0.9938	97.48
12.5	46,452	88	0.0019	0.9981	96.88
13.5	46,426		0.0000	1.0000	96.70
14.5	45,288		0.0000	1.0000	96.70
15.5	44,970	38	0.0008	0.9992	96.70
16.5	45,190		0.0000	1.0000	96.61
17.5	45,412		0.0000	1.0000	96.61
18.5	45,840	393	0.0086	0.9914	96.61
19.5	45,505	79	0.0017	0.9983	95.79
20.5	45,852	263	0.0057	0.9943	95.62
21.5	46,688	267	0.0057	0.9943	95.07
22.5	45,111	390	0.0087	0.9913	94.53
23.5	45,774		0.0000	1.0000	93.71
24.5	45,961	36	0.0008	0.9992	93.71
25.5	46,246	28	0.0006	0.9994	93.64
26.5	46,365	275	0.0059	0.9941	93.58
27.5	45,352		0.0000	1.0000	93.02
28.5	45,907		0.0000	1.0000	93.02
29.5	56,173	364	0.0065	0.9935	93.02
30.5	56,260	148	0.0026	0.9974	92.42
31.5	56,112	20	0.0003	0.9997	92.18
32.5	56,313	524	0.0093	0.9907	92.15
33.5	56,355		0.0000	1.0000	91.29
34.5	56,947	108	0.0019	0.9981	91.29
35.5	47,768		0.0000	1.0000	91.12
36.5	48,436		0.0000	1.0000	91.12
37.5	48,313		0.0000	1.0000	91.12
38.5	46,950	43	0.0009	0.9991	91.12

PLACEMENT BAND 1883-2017

EXPERIENCE BAND 1942-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	39,827	190	0.0048	0.9952	91.03
40.5	40,237	202	0.0050	0.9950	90.60
41.5	27,151	167	0.0061	0.9939	90.14
42.5	27,406	1,133	0.0413	0.9587	89.59
43.5	26,809	967	0.0361	0.9639	85.89
44.5	25,470	59	0.0023	0.9977	82.79
45.5	26,059	911	0.0350	0.9650	82.60
46.5	25,354	39	0.0015	0.9985	79.71
47.5	25,315		0.0000	1.0000	79.59
48.5	21,815	0	0.0000	1.0000	79.59
49.5	21,552		0.0000	1.0000	79.59
50.5	21,354		0.0000	1.0000	79.59
51.5	21,416		0.0000	1.0000	79.59
52.5	21,432	140	0.0065	0.9935	79.59
53.5	21,024	158	0.0075	0.9925	79.07
54.5	20,255	121	0.0060	0.9940	78.47
55.5	20,058	64	0.0032	0.9968	78.00
56.5	17,408		0.0000	1.0000	77.76
57.5	16,292	144	0.0088	0.9912	77.76
58.5	16,071	53	0.0033	0.9967	77.07
59.5	15,875		0.0000	1.0000	76.82
60.5	15,848	166	0.0105	0.9895	76.82
61.5	15,534	93	0.0060	0.9940	76.01
62.5	14,527	23	0.0016	0.9984	75.56
63.5	13,874	46	0.0033	0.9967	75.44
64.5	10,015		0.0000	1.0000	75.19
65.5	9,992		0.0000	1.0000	75.19
66.5	9,542		0.0000	1.0000	75.19
67.5	9,542		0.0000	1.0000	75.19
68.5	9,488		0.0000	1.0000	75.19
69.5	9,449		0.0000	1.0000	75.19
70.5	9,426		0.0000	1.0000	75.19
71.5	9,305		0.0000	1.0000	75.19
72.5	9,984		0.0000	1.0000	75.19
73.5	9,892		0.0000	1.0000	75.19
74.5	9,876	108	0.0109	0.9891	75.19
75.5	9,229		0.0000	1.0000	74.36
76.5	9,171		0.0000	1.0000	74.36
77.5	9,014		0.0000	1.0000	74.36
78.5	8,521		0.0000	1.0000	74.36

PLACEMENT BAND 1883-2017

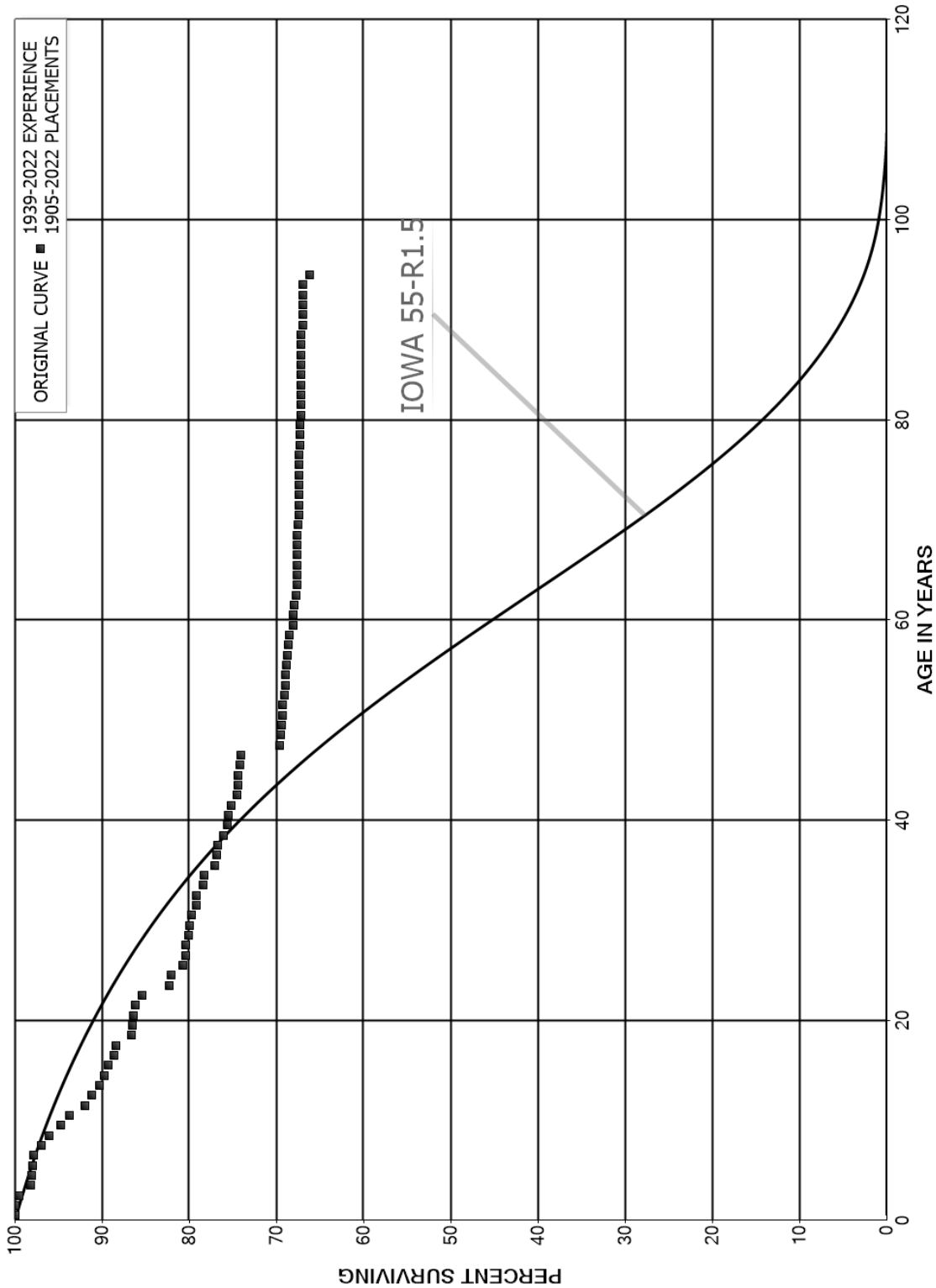
EXPERIENCE BAND 1942-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	8,387		0.0000	1.0000	74.36
80.5	10,840		0.0000	1.0000	74.36
81.5	11,156		0.0000	1.0000	74.36
82.5	10,643		0.0000	1.0000	74.36
83.5	10,536	158	0.0150	0.9850	74.36
84.5	10,413		0.0000	1.0000	73.25
85.5	10,422		0.0000	1.0000	73.25
86.5	9,691		0.0000	1.0000	73.25
87.5	9,782		0.0000	1.0000	73.25
88.5	10,201	1,837	0.1801	0.8199	73.25
89.5	8,471		0.0000	1.0000	60.06
90.5	8,301		0.0000	1.0000	60.06
91.5	8,301		0.0000	1.0000	60.06
92.5	8,211		0.0000	1.0000	60.06
93.5	7,469		0.0000	1.0000	60.06
94.5	6,862		0.0000	1.0000	60.06
95.5	6,522		0.0000	1.0000	60.06
96.5	6,572		0.0000	1.0000	60.06
97.5	6,238		0.0000	1.0000	60.06
98.5	5,167		0.0000	1.0000	60.06
99.5	4,830		0.0000	1.0000	60.06
100.5	5,843		0.0000	1.0000	60.06
101.5	5,843		0.0000	1.0000	60.06
102.5	5,095		0.0000	1.0000	60.06
103.5	5,075		0.0000	1.0000	60.06
104.5	5,075		0.0000	1.0000	60.06
105.5	5,038		0.0000	1.0000	60.06
106.5	4,689		0.0000	1.0000	60.06
107.5	4,630		0.0000	1.0000	60.06
108.5	4,387		0.0000	1.0000	60.06
109.5	3,968		0.0000	1.0000	60.06
110.5	3,861		0.0000	1.0000	60.06
111.5	3,861		0.0000	1.0000	60.06
112.5	3,794		0.0000	1.0000	60.06
113.5	3,789		0.0000	1.0000	60.06
114.5	3,788		0.0000	1.0000	60.06
115.5	3,272		0.0000	1.0000	60.06
116.5	3,272		0.0000	1.0000	60.06
117.5	3,001		0.0000	1.0000	60.06
118.5	2,896		0.0000	1.0000	60.06

PLACEMENT BAND 1883-2017

EXPERIENCE BAND 1942-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
119.5	2,540		0.0000	1.0000	60.06
120.5	2,530		0.0000	1.0000	60.06
121.5	1,487		0.0000	1.0000	60.06
122.5	1,408		0.0000	1.0000	60.06
123.5	1,188		0.0000	1.0000	60.06
124.5	1,065		0.0000	1.0000	60.06
125.5	799		0.0000	1.0000	60.06
126.5	221		0.0000	1.0000	60.06
127.5					60.06



PLACEMENT BAND 1905-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	35,177,521	2,286	0.0001	0.9999	100.00
0.5	32,228,369	17,579	0.0005	0.9995	99.99
1.5	31,589,224	138,926	0.0044	0.9956	99.94
2.5	29,643,935	386,432	0.0130	0.9870	99.50
3.5	27,934,105	27,530	0.0010	0.9990	98.20
4.5	26,389,255	41,614	0.0016	0.9984	98.11
5.5	24,501,160	25,502	0.0010	0.9990	97.95
6.5	21,392,970	206,220	0.0096	0.9904	97.85
7.5	20,041,839	169,573	0.0085	0.9915	96.91
8.5	16,535,827	230,530	0.0139	0.9861	96.09
9.5	14,923,018	161,012	0.0108	0.9892	94.75
10.5	13,220,563	249,237	0.0189	0.9811	93.72
11.5	11,259,329	97,076	0.0086	0.9914	91.96
12.5	8,592,360	78,437	0.0091	0.9909	91.16
13.5	8,126,469	49,996	0.0062	0.9938	90.33
14.5	7,811,904	47,130	0.0060	0.9940	89.78
15.5	7,599,252	51,444	0.0068	0.9932	89.23
16.5	7,342,796	23,785	0.0032	0.9968	88.63
17.5	7,153,016	135,909	0.0190	0.9810	88.34
18.5	6,408,965	8,385	0.0013	0.9987	86.66
19.5	6,758,559	8,446	0.0012	0.9988	86.55
20.5	6,583,318	22,745	0.0035	0.9965	86.44
21.5	6,654,793	56,971	0.0086	0.9914	86.14
22.5	6,432,405	237,609	0.0369	0.9631	85.41
23.5	6,149,544	16,121	0.0026	0.9974	82.25
24.5	5,646,670	91,847	0.0163	0.9837	82.04
25.5	5,078,762	16,024	0.0032	0.9968	80.70
26.5	4,757,502	5,601	0.0012	0.9988	80.45
27.5	4,281,450	13,889	0.0032	0.9968	80.35
28.5	4,502,790	10,259	0.0023	0.9977	80.09
29.5	4,366,453	11,731	0.0027	0.9973	79.91
30.5	4,344,735	26,905	0.0062	0.9938	79.70
31.5	3,737,538	3,001	0.0008	0.9992	79.20
32.5	3,729,080	33,804	0.0091	0.9909	79.14
33.5	3,471,172	6,797	0.0020	0.9980	78.42
34.5	3,390,980	51,179	0.0151	0.9849	78.27
35.5	3,154,724	12,288	0.0039	0.9961	77.09
36.5	3,015,242	4,163	0.0014	0.9986	76.79
37.5	2,881,528	24,469	0.0085	0.9915	76.68
38.5	2,760,052	16,633	0.0060	0.9940	76.03

PLACEMENT BAND 1905-2022

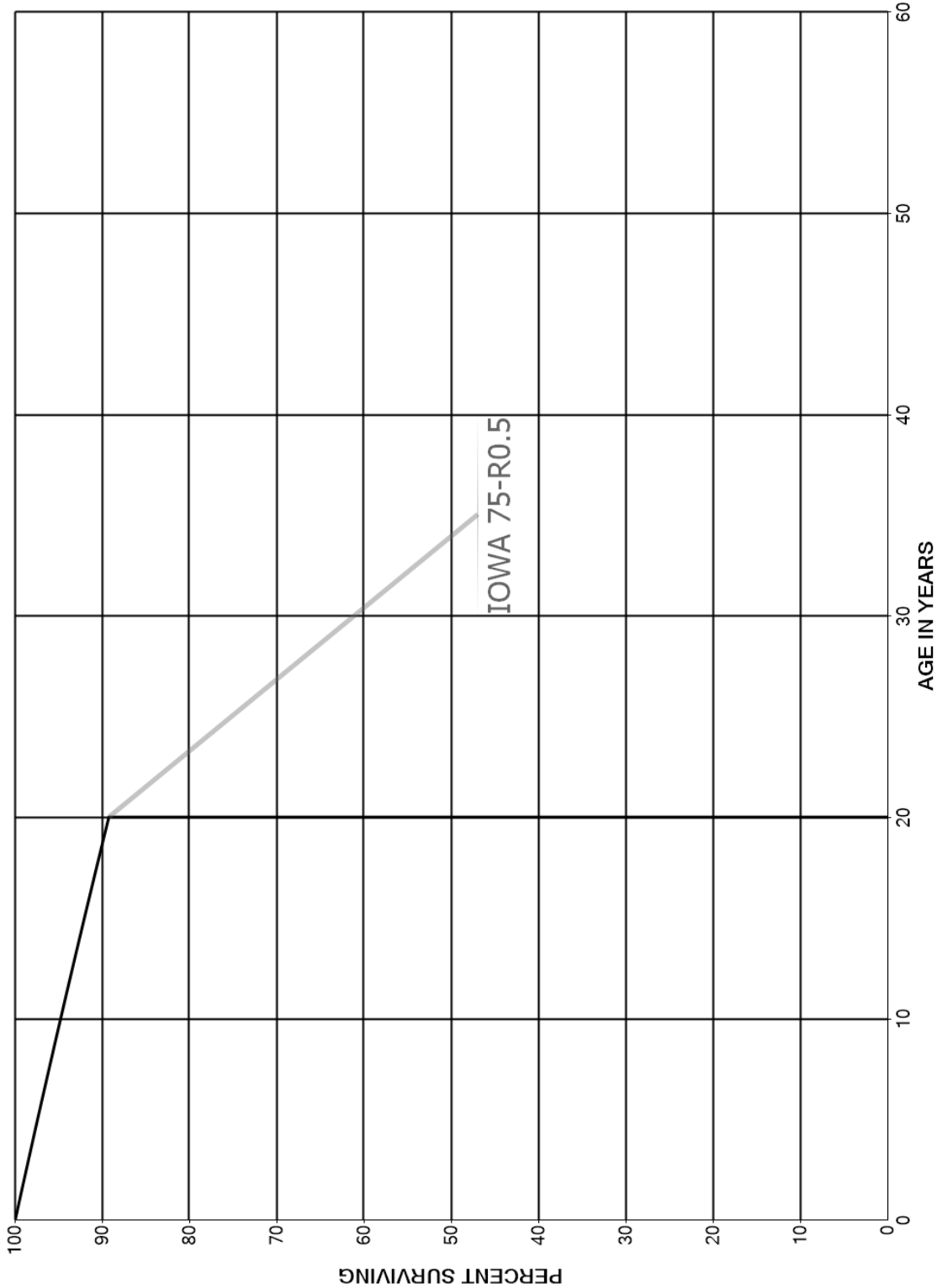
EXPERIENCE BAND 1939-2022

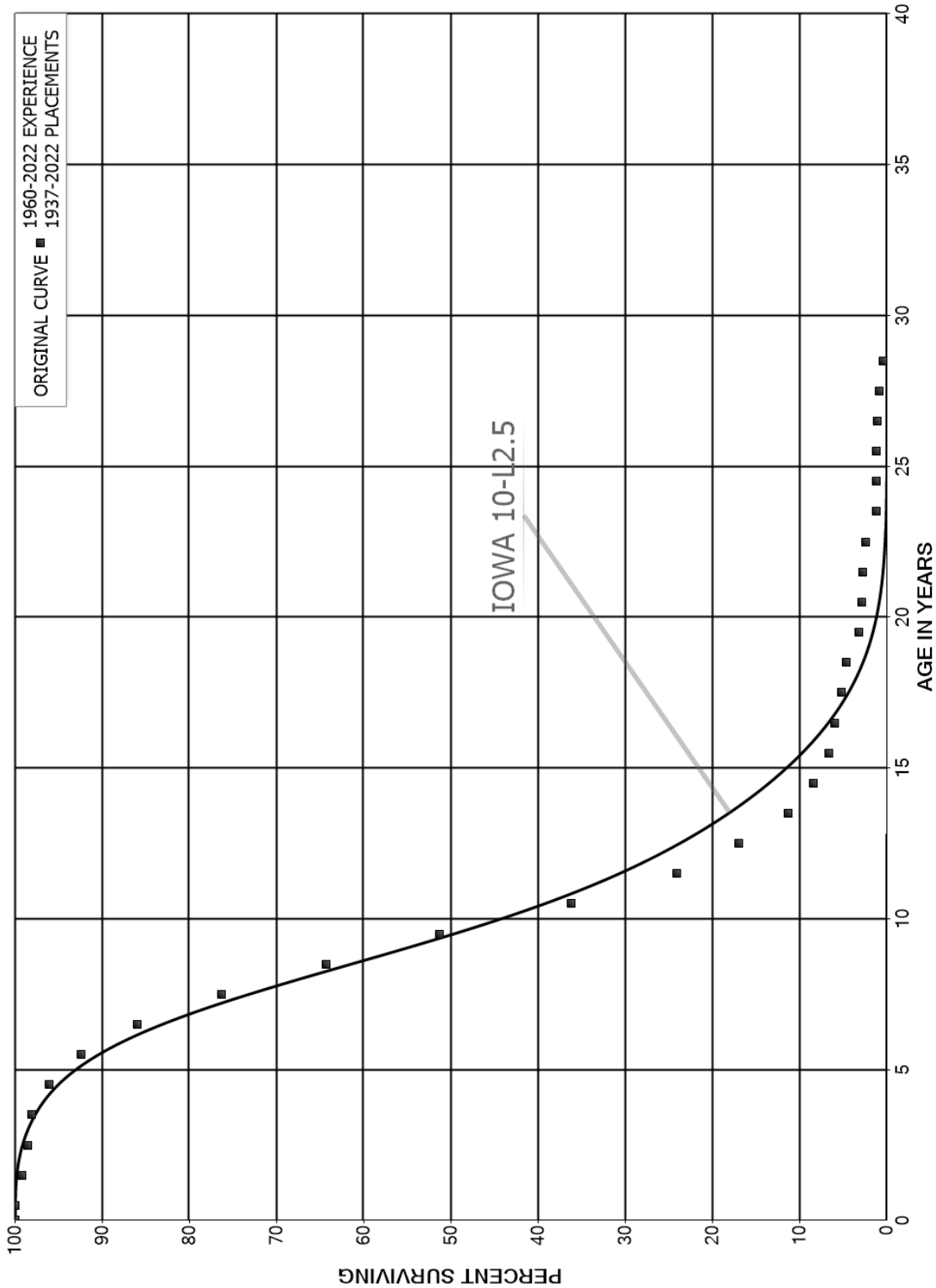
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	2,517,363	760	0.0003	0.9997	75.57
40.5	2,127,642	11,811	0.0056	0.9944	75.55
41.5	1,926,508	15,807	0.0082	0.9918	75.13
42.5	1,616,756	1,505	0.0009	0.9991	74.51
43.5	1,497,506	1,951	0.0013	0.9987	74.44
44.5	1,475,812	4,144	0.0028	0.9972	74.35
45.5	1,143,407	872	0.0008	0.9992	74.14
46.5	1,139,317	68,900	0.0605	0.9395	74.08
47.5	1,053,915	697	0.0007	0.9993	69.60
48.5	1,043,808	2,249	0.0022	0.9978	69.55
49.5	1,032,358	1,200	0.0012	0.9988	69.40
50.5	1,024,012	1,227	0.0012	0.9988	69.32
51.5	1,004,896	3,031	0.0030	0.9970	69.24
52.5	801,617	1,500	0.0019	0.9981	69.03
53.5	797,917		0.0000	1.0000	68.90
54.5	801,256	1,083	0.0014	0.9986	68.90
55.5	789,629	562	0.0007	0.9993	68.81
56.5	693,933	970	0.0014	0.9986	68.76
57.5	692,397	1,558	0.0023	0.9977	68.66
58.5	683,593	4,201	0.0061	0.9939	68.51
59.5	677,973		0.0000	1.0000	68.09
60.5	638,664	800	0.0013	0.9987	68.09
61.5	635,375	3,085	0.0049	0.9951	68.00
62.5	570,894	74	0.0001	0.9999	67.67
63.5	570,081	383	0.0007	0.9993	67.66
64.5	564,614	100	0.0002	0.9998	67.62
65.5	545,112		0.0000	1.0000	67.61
66.5	545,172	297	0.0005	0.9995	67.61
67.5	542,767		0.0000	1.0000	67.57
68.5	542,211	816	0.0015	0.9985	67.57
69.5	539,676	314	0.0006	0.9994	67.47
70.5	537,517		0.0000	1.0000	67.43
71.5	536,834	500	0.0009	0.9991	67.43
72.5	513,650		0.0000	1.0000	67.37
73.5	513,868		0.0000	1.0000	67.37
74.5	513,868	75	0.0001	0.9999	67.37
75.5	513,164		0.0000	1.0000	67.36
76.5	507,201	171	0.0003	0.9997	67.36
77.5	506,739		0.0000	1.0000	67.33
78.5	506,739	125	0.0002	0.9998	67.33

PLACEMENT BAND 1905-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	506,614	936	0.0018	0.9982	67.32
80.5	505,678	363	0.0007	0.9993	67.19
81.5	505,315		0.0000	1.0000	67.14
82.5	406,017		0.0000	1.0000	67.14
83.5	406,017		0.0000	1.0000	67.14
84.5	409,835		0.0000	1.0000	67.14
85.5	414,503		0.0000	1.0000	67.14
86.5	414,503		0.0000	1.0000	67.14
87.5	414,503		0.0000	1.0000	67.14
88.5	414,503	906	0.0022	0.9978	67.14
89.5	413,010		0.0000	1.0000	67.00
90.5	409,192		0.0000	1.0000	67.00
91.5	409,192		0.0000	1.0000	67.00
92.5	409,192		0.0000	1.0000	67.00
93.5	409,192	4,764	0.0116	0.9884	67.00
94.5	218		0.0000	1.0000	66.22
95.5	218		0.0000	1.0000	66.22
96.5	218		0.0000	1.0000	66.22
97.5	218		0.0000	1.0000	66.22
98.5	218		0.0000	1.0000	66.22
99.5	218		0.0000	1.0000	66.22
100.5	218		0.0000	1.0000	66.22
101.5	218		0.0000	1.0000	66.22
102.5	218		0.0000	1.0000	66.22
103.5	218		0.0000	1.0000	66.22
104.5	218		0.0000	1.0000	66.22
105.5	218		0.0000	1.0000	66.22
106.5	218		0.0000	1.0000	66.22
107.5	218		0.0000	1.0000	66.22
108.5	218		0.0000	1.0000	66.22
109.5	218		0.0000	1.0000	66.22
110.5	218		0.0000	1.0000	66.22
111.5	218		0.0000	1.0000	66.22
112.5	218		0.0000	1.0000	66.22
113.5	218		0.0000	1.0000	66.22
114.5	218		0.0000	1.0000	66.22
115.5	218		0.0000	1.0000	66.22
116.5	218		0.0000	1.0000	66.22
117.5					66.22





PLACEMENT BAND 1937-2022

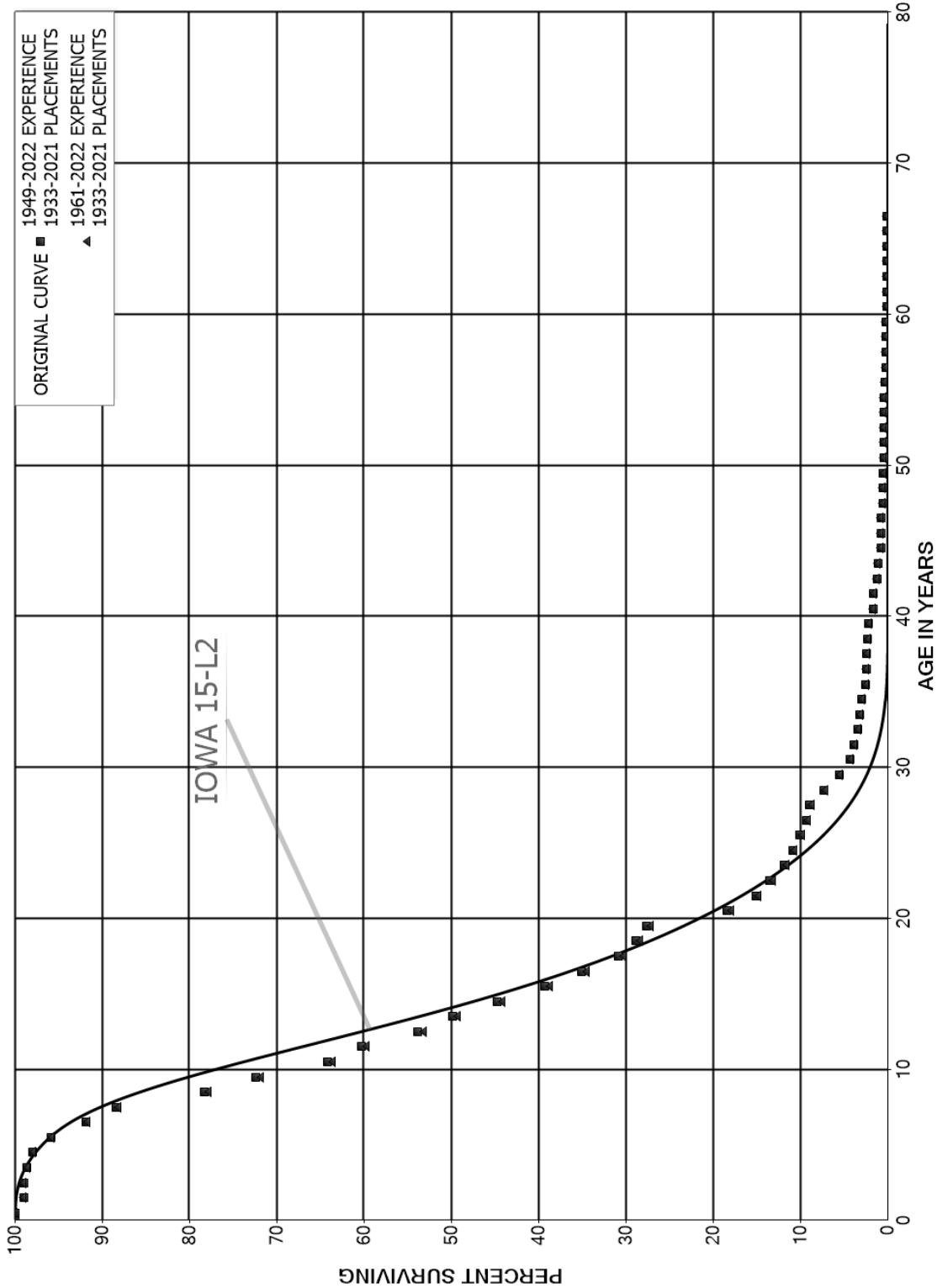
EXPERIENCE BAND 1960-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	131,219,566	39,648	0.0003	0.9997	100.00
0.5	128,571,978	996,619	0.0078	0.9922	99.97
1.5	114,969,300	798,664	0.0069	0.9931	99.19
2.5	103,809,000	423,791	0.0041	0.9959	98.51
3.5	94,447,532	1,939,520	0.0205	0.9795	98.10
4.5	84,137,339	3,280,070	0.0390	0.9610	96.09
5.5	76,601,063	5,310,546	0.0693	0.9307	92.34
6.5	69,357,526	7,772,773	0.1121	0.8879	85.94
7.5	62,893,514	9,894,782	0.1573	0.8427	76.31
8.5	50,006,853	10,145,842	0.2029	0.7971	64.30
9.5	38,985,626	11,460,346	0.2940	0.7060	51.26
10.5	27,215,259	9,081,605	0.3337	0.6663	36.19
11.5	18,524,936	5,490,898	0.2964	0.7036	24.11
12.5	13,367,284	4,502,295	0.3368	0.6632	16.97
13.5	8,959,820	2,238,636	0.2499	0.7501	11.25
14.5	8,800,468	1,862,405	0.2116	0.7884	8.44
15.5	6,933,934	772,268	0.1114	0.8886	6.65
16.5	6,095,155	756,883	0.1242	0.8758	5.91
17.5	5,340,574	549,300	0.1029	0.8971	5.18
18.5	4,773,400	1,492,988	0.3128	0.6872	4.65
19.5	3,174,938	378,509	0.1192	0.8808	3.19
20.5	2,774,391	135,103	0.0487	0.9513	2.81
21.5	2,637,727	225,998	0.0857	0.9143	2.68
22.5	2,421,909	1,285,288	0.5307	0.4693	2.45
23.5	476,149	7,152	0.0150	0.9850	1.15
24.5	386,184	3,603	0.0093	0.9907	1.13
25.5	380,873	28,647	0.0752	0.9248	1.12
26.5	352,826	59,338	0.1682	0.8318	1.04
27.5	292,888	174,970	0.5974	0.4026	0.86
28.5	118,720	3,696	0.0311	0.9689	0.35
29.5	114,222	2,211	0.0194	0.9806	0.34
30.5	112,011	11,258	0.1005	0.8995	0.33
31.5	100,754	975	0.0097	0.9903	0.30
32.5	100,650	18,639	0.1852	0.8148	0.29
33.5	81,140	12,894	0.1589	0.8411	0.24
34.5	68,246	26,545	0.3890	0.6110	0.20
35.5	41,701		0.0000	1.0000	0.12
36.5	41,701	24,444	0.5862	0.4138	0.12
37.5	17,256	15,319	0.8877	0.1123	0.05
38.5	1,937		0.0000	1.0000	0.01

PLACEMENT BAND 1937-2022

EXPERIENCE BAND 1960-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,937		0.0000	1.0000	0.01
40.5	1,937	300	0.1548	0.8452	0.01
41.5	1,637	50	0.0305	0.9695	0.00
42.5	1,587	638	0.4017	0.5983	0.00
43.5	950		0.0000	1.0000	0.00
44.5	950	220	0.2316	0.7684	0.00
45.5	730	186	0.2549	0.7451	0.00
46.5	544	346	0.6368	0.3632	0.00
47.5	197		0.0000	1.0000	0.00
48.5	197		0.0000	1.0000	0.00
49.5	197	128	0.6481	0.3519	0.00
50.5	69		0.0000	1.0000	0.00
51.5	69		0.0000	1.0000	0.00
52.5	69		0.0000	1.0000	0.00
53.5	69		0.0000	1.0000	0.00
54.5	69		0.0000	1.0000	0.00
55.5	69		0.0000	1.0000	0.00
56.5	69		0.0000	1.0000	0.00
57.5	69		0.0000	1.0000	0.00
58.5	69		0.0000	1.0000	0.00
59.5	69	69	1.0000		0.00
60.5					



PLACEMENT BAND 1933-2021

EXPERIENCE BAND 1949-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,462,065	883	0.0002	0.9998	100.00
0.5	4,491,572	46,757	0.0104	0.9896	99.98
1.5	4,164,741		0.0000	1.0000	98.94
2.5	3,713,412	13,345	0.0036	0.9964	98.94
3.5	3,075,188	20,749	0.0067	0.9933	98.58
4.5	2,770,841	59,197	0.0214	0.9786	97.92
5.5	2,317,713	96,230	0.0415	0.9585	95.83
6.5	2,045,587	77,972	0.0381	0.9619	91.85
7.5	1,934,044	220,786	0.1142	0.8858	88.35
8.5	1,688,374	127,146	0.0753	0.9247	78.26
9.5	1,553,725	176,563	0.1136	0.8864	72.37
10.5	1,226,833	74,093	0.0604	0.9396	64.14
11.5	1,087,118	117,004	0.1076	0.8924	60.27
12.5	964,208	70,632	0.0733	0.9267	53.78
13.5	871,377	88,949	0.1021	0.8979	49.84
14.5	773,992	94,098	0.1216	0.8784	44.76
15.5	671,373	73,320	0.1092	0.8908	39.31
16.5	546,438	65,606	0.1201	0.8799	35.02
17.5	464,106	29,487	0.0635	0.9365	30.82
18.5	437,195	18,943	0.0433	0.9567	28.86
19.5	418,252	140,111	0.3350	0.6650	27.61
20.5	278,140	49,173	0.1768	0.8232	18.36
21.5	228,968	24,797	0.1083	0.8917	15.11
22.5	197,914	23,358	0.1180	0.8820	13.48
23.5	164,972	13,832	0.0838	0.9162	11.89
24.5	151,140	12,162	0.0805	0.9195	10.89
25.5	138,978	10,065	0.0724	0.9276	10.01
26.5	128,913	5,445	0.0422	0.9578	9.29
27.5	123,468	21,639	0.1753	0.8247	8.90
28.5	102,019	25,117	0.2462	0.7538	7.34
29.5	76,713	16,808	0.2191	0.7809	5.53
30.5	60,392	6,295	0.1042	0.8958	4.32
31.5	54,222	6,860	0.1265	0.8735	3.87
32.5	46,750	2,972	0.0636	0.9364	3.38
33.5	43,778	3,123	0.0713	0.9287	3.16
34.5	40,655	6,400	0.1574	0.8426	2.94
35.5	34,255	652	0.0190	0.9810	2.48
36.5	33,603	284	0.0084	0.9916	2.43
37.5	33,319	2,383	0.0715	0.9285	2.41
38.5	32,871	1,589	0.0483	0.9517	2.24

PLACEMENT BAND 1933-2021

EXPERIENCE BAND 1949-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	31,948	7,616	0.2384	0.7616	2.13
40.5	24,332	426	0.0175	0.9825	1.62
41.5	23,906	6,305	0.2637	0.7363	1.59
42.5	17,171	872	0.0508	0.9492	1.17
43.5	16,298	4,915	0.3016	0.6984	1.11
44.5	11,383	674	0.0592	0.9408	0.78
45.5	10,709	481	0.0449	0.9551	0.73
46.5	10,228	2,223	0.2173	0.7827	0.70
47.5	8,006	1,060	0.1325	0.8675	0.55
48.5	6,945	226	0.0326	0.9674	0.47
49.5	6,719	602	0.0896	0.9104	0.46
50.5	6,117		0.0000	1.0000	0.42
51.5	6,117		0.0000	1.0000	0.42
52.5	6,117		0.0000	1.0000	0.42
53.5	6,117	311	0.0509	0.9491	0.42
54.5	6,169	1,347	0.2183	0.7817	0.40
55.5	4,822	2,012	0.4173	0.5827	0.31
56.5	2,810		0.0000	1.0000	0.18
57.5	2,810		0.0000	1.0000	0.18
58.5	2,810	612	0.2178	0.7822	0.18
59.5	2,198	363	0.1650	0.8350	0.14
60.5	1,835		0.0000	1.0000	0.12
61.5	1,835	618	0.3368	0.6632	0.12
62.5	1,217		0.0000	1.0000	0.08
63.5	1,217	542	0.4450	0.5550	0.08
64.5	676		0.0000	1.0000	0.04
65.5	676	363	0.5373	0.4627	0.04
66.5	313		0.0000	1.0000	0.02
67.5	313	313	1.0000		0.02
68.5					

PLACEMENT BAND 1933-2021

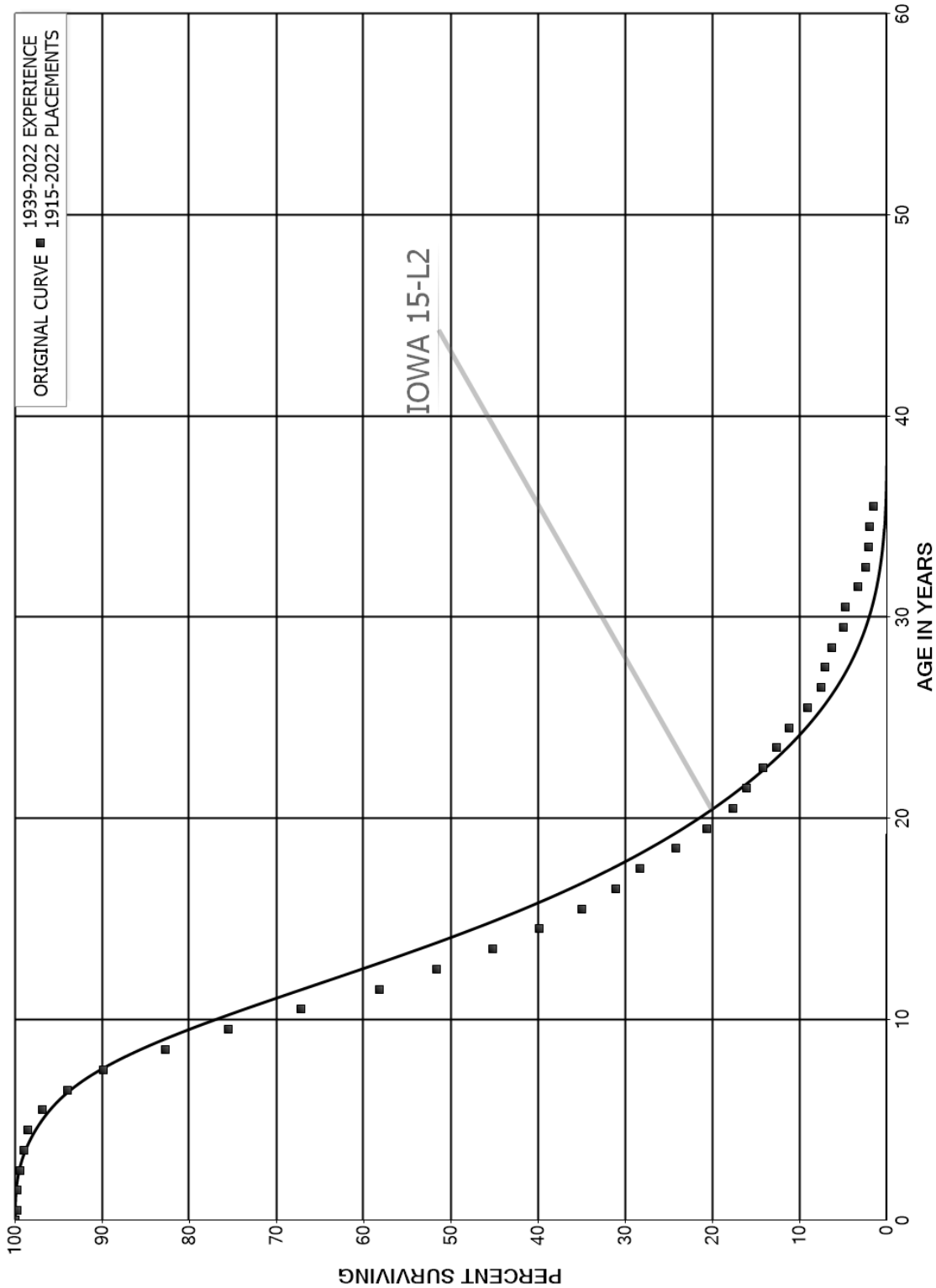
EXPERIENCE BAND 1961-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,335,599	842	0.0002	0.9998	100.00
0.5	4,368,486	46,757	0.0107	0.9893	99.98
1.5	4,066,968		0.0000	1.0000	98.91
2.5	3,621,054	13,345	0.0037	0.9963	98.91
3.5	2,987,014	20,749	0.0069	0.9931	98.55
4.5	2,690,978	59,197	0.0220	0.9780	97.86
5.5	2,252,650	96,230	0.0427	0.9573	95.71
6.5	1,994,385	77,972	0.0391	0.9609	91.62
7.5	1,886,504	220,786	0.1170	0.8830	88.04
8.5	1,653,185	127,146	0.0769	0.9231	77.73
9.5	1,528,951	176,563	0.1155	0.8845	71.76
10.5	1,210,582	74,093	0.0612	0.9388	63.47
11.5	1,073,636	117,004	0.1090	0.8910	59.59
12.5	952,668	70,632	0.0741	0.9259	53.09
13.5	861,673	88,949	0.1032	0.8968	49.16
14.5	764,684	94,098	0.1231	0.8769	44.08
15.5	665,028	73,320	0.1103	0.8897	38.66
16.5	540,093	65,606	0.1215	0.8785	34.39
17.5	457,761	29,487	0.0644	0.9356	30.22
18.5	430,850	18,943	0.0440	0.9560	28.27
19.5	413,579	140,111	0.3388	0.6612	27.03
20.5	274,614	49,173	0.1791	0.8209	17.87
21.5	228,571	24,797	0.1085	0.8915	14.67
22.5	197,651	23,358	0.1182	0.8818	13.08
23.5	164,929	13,832	0.0839	0.9161	11.53
24.5	151,097	12,162	0.0805	0.9195	10.57
25.5	138,934	10,065	0.0724	0.9276	9.72
26.5	128,870	5,445	0.0423	0.9577	9.01
27.5	123,468	21,639	0.1753	0.8247	8.63
28.5	102,019	25,117	0.2462	0.7538	7.12
29.5	76,713	16,808	0.2191	0.7809	5.37
30.5	60,392	6,295	0.1042	0.8958	4.19
31.5	54,222	6,860	0.1265	0.8735	3.75
32.5	46,750	2,972	0.0636	0.9364	3.28
33.5	43,778	3,123	0.0713	0.9287	3.07
34.5	40,655	6,400	0.1574	0.8426	2.85
35.5	34,255	652	0.0190	0.9810	2.40
36.5	33,603	284	0.0084	0.9916	2.36
37.5	33,319	2,383	0.0715	0.9285	2.34
38.5	32,871	1,589	0.0483	0.9517	2.17

PLACEMENT BAND 1933-2021

EXPERIENCE BAND 1961-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	31,948	7,616	0.2384	0.7616	2.06
40.5	24,332	426	0.0175	0.9825	1.57
41.5	23,906	6,305	0.2637	0.7363	1.54
42.5	17,171	872	0.0508	0.9492	1.14
43.5	16,298	4,915	0.3016	0.6984	1.08
44.5	11,383	674	0.0592	0.9408	0.75
45.5	10,709	481	0.0449	0.9551	0.71
46.5	10,228	2,223	0.2173	0.7827	0.68
47.5	8,006	1,060	0.1325	0.8675	0.53
48.5	6,945	226	0.0326	0.9674	0.46
49.5	6,719	602	0.0896	0.9104	0.45
50.5	6,117		0.0000	1.0000	0.41
51.5	6,117		0.0000	1.0000	0.41
52.5	6,117		0.0000	1.0000	0.41
53.5	6,117	311	0.0509	0.9491	0.41
54.5	6,169	1,347	0.2183	0.7817	0.38
55.5	4,822	2,012	0.4173	0.5827	0.30
56.5	2,810		0.0000	1.0000	0.18
57.5	2,810		0.0000	1.0000	0.18
58.5	2,810	612	0.2178	0.7822	0.18
59.5	2,198	363	0.1650	0.8350	0.14
60.5	1,835		0.0000	1.0000	0.11
61.5	1,835	618	0.3368	0.6632	0.11
62.5	1,217		0.0000	1.0000	0.08
63.5	1,217	542	0.4450	0.5550	0.08
64.5	676		0.0000	1.0000	0.04
65.5	676	363	0.5373	0.4627	0.04
66.5	313		0.0000	1.0000	0.02
67.5	313	313	1.0000		0.02
68.5					



PLACEMENT BAND 1915-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	45,619,396	110,253	0.0024	0.9976	100.00
0.5	43,872,776	26,384	0.0006	0.9994	99.76
1.5	42,670,617	116,022	0.0027	0.9973	99.70
2.5	40,294,587	173,547	0.0043	0.9957	99.43
3.5	38,885,222	206,137	0.0053	0.9947	99.00
4.5	36,698,563	615,071	0.0168	0.9832	98.47
5.5	34,306,532	1,034,562	0.0302	0.9698	96.82
6.5	32,448,102	1,421,100	0.0438	0.9562	93.90
7.5	29,460,630	2,301,343	0.0781	0.9219	89.79
8.5	26,218,545	2,308,460	0.0880	0.9120	82.78
9.5	23,114,398	2,529,259	0.1094	0.8906	75.49
10.5	19,857,720	2,678,045	0.1349	0.8651	67.23
11.5	16,622,744	1,869,475	0.1125	0.8875	58.16
12.5	14,709,697	1,824,905	0.1241	0.8759	51.62
13.5	12,919,431	1,523,861	0.1180	0.8820	45.22
14.5	11,096,352	1,362,496	0.1228	0.8772	39.88
15.5	9,447,607	1,060,983	0.1123	0.8877	34.99
16.5	8,374,262	750,522	0.0896	0.9104	31.06
17.5	7,594,682	1,109,825	0.1461	0.8539	28.27
18.5	6,096,442	891,862	0.1463	0.8537	24.14
19.5	4,991,292	716,481	0.1435	0.8565	20.61
20.5	4,179,958	372,292	0.0891	0.9109	17.65
21.5	3,690,741	432,307	0.1171	0.8829	16.08
22.5	3,092,409	338,403	0.1094	0.8906	14.20
23.5	2,339,177	271,522	0.1161	0.8839	12.64
24.5	2,073,333	396,789	0.1914	0.8086	11.18
25.5	1,616,002	267,816	0.1657	0.8343	9.04
26.5	1,347,034	77,893	0.0578	0.9422	7.54
27.5	1,256,478	150,729	0.1200	0.8800	7.10
28.5	995,095	199,598	0.2006	0.7994	6.25
29.5	748,681	33,635	0.0449	0.9551	5.00
30.5	613,602	188,111	0.3066	0.6934	4.77
31.5	411,471	116,609	0.2834	0.7166	3.31
32.5	294,862	44,037	0.1493	0.8507	2.37
33.5	236,009	13,187	0.0559	0.9441	2.02
34.5	221,571	45,224	0.2041	0.7959	1.90
35.5	170,974	12,591	0.0736	0.9264	1.52
36.5	158,383	4,195	0.0265	0.9735	1.40
37.5	146,037	4,810	0.0329	0.9671	1.37
38.5	124,924	95	0.0008	0.9992	1.32

PLACEMENT BAND 1915-2022

EXPERIENCE BAND 1939-2022

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	124,829	54	0.0004	0.9996	1.32
40.5	124,775	25,574	0.2050	0.7950	1.32
41.5	99,302	31,536	0.3176	0.6824	1.05
42.5	67,837	14,093	0.2077	0.7923	0.72
43.5	53,790	18,189	0.3381	0.6619	0.57
44.5	10,861	46	0.0042	0.9958	0.38
45.5	10,815	30	0.0027	0.9973	0.37
46.5	10,786		0.0000	1.0000	0.37
47.5	10,537		0.0000	1.0000	0.37
48.5	10,537	3,508	0.3330	0.6670	0.37
49.5	7,028	5,146	0.7322	0.2678	0.25
50.5	1,882		0.0000	1.0000	0.07
51.5	1,882		0.0000	1.0000	0.07
52.5	1,882		0.0000	1.0000	0.07
53.5	1,882		0.0000	1.0000	0.07
54.5	1,882		0.0000	1.0000	0.07
55.5	1,882		0.0000	1.0000	0.07
56.5	1,882		0.0000	1.0000	0.07
57.5	1,882		0.0000	1.0000	0.07
58.5	1,882		0.0000	1.0000	0.07
59.5	1,882		0.0000	1.0000	0.07
60.5	1,382		0.0000	1.0000	0.07
61.5					0.07

**PART VII. DETAILED DEPRECIATION
CALCULATIONS**

CUMULATIVE DEPRECIATED ORIGINAL COST

1874	5.00	5.00		
1875	9,924.00	9,925.00	(1.00)	(1.00)
1876	956.00	956.00		(1.00)
1877	121.00	121.00		(1.00)
1881	12.00	12.00		(1.00)
1885	1,786.00	1,576.00	210.00	209.00
1886	5,192.00	5,192.00		209.00
1887	13,632.00	13,632.00		209.00
1888	13,649.00	12,449.00	1,200.00	1,409.00
1889	21,203.00	18,630.00	2,573.00	3,982.00
1890	47,140.00	47,133.00	7.00	3,989.00
1891	41,949.00	37,398.00	4,551.00	8,540.00
1892	14,904.00	14,904.00		8,540.00
1893	20,614.00	20,607.00	7.00	8,547.00
1894	25,385.00	25,239.00	146.00	8,693.00
1895	8,845.00	8,845.00		8,693.00
1896	29,440.00	28,170.00	1,270.00	9,963.00
1897	23,836.00	23,558.00	278.00	10,241.00
1898	32,891.00	32,876.00	15.00	10,256.00
1899	81,723.00	80,142.00	1,581.00	11,837.00
1900	735,560.00	699,011.00	36,549.00	48,386.00
1901	225,942.00	223,007.00	2,935.00	51,321.00
1902	348,252.00	338,993.00	9,259.00	60,580.00
1903	239,152.00	232,515.00	6,637.00	67,217.00
1904	130,586.00	127,224.00	3,362.00	70,579.00
1905	264,113.00	259,456.00	4,657.00	75,236.00
1906	179,982.00	175,687.00	4,295.00	79,531.00
1907	172,859.00	172,083.00	776.00	80,307.00
1908	199,467.00	188,767.00	10,700.00	91,007.00
1909	101,044.00	98,417.00	2,627.00	93,634.00
1910	80,182.00	78,435.00	1,747.00	95,381.00
1911	85,216.00	82,056.00	3,160.00	98,541.00
1912	85,458.00	84,030.00	1,428.00	99,969.00
1913	236,911.00	235,059.00	1,852.00	101,821.00
1914	281,313.00	279,194.00	2,119.00	103,940.00
1915	119,736.00	115,425.00	4,311.00	108,251.00
1916	117,010.00	110,596.00	6,414.00	114,665.00
1917	171,794.00	168,254.00	3,540.00	118,205.00
1918	89,775.00	87,187.00	2,588.00	120,793.00
1919	92,342.00	90,668.00	1,674.00	122,467.00
1920	53,787.00	53,205.00	582.00	123,049.00
1921	123,300.00	114,781.00	8,519.00	131,568.00
1922	186,354.00	182,509.00	3,845.00	135,413.00
1923	207,576.00	198,525.00	9,051.00	144,464.00
1924	344,076.00	319,796.00	24,280.00	168,744.00
1925	470,979.00	437,255.00	33,724.00	202,468.00
1926	399,855.00	378,306.00	21,549.00	224,017.00
1927	355,158.00	323,387.00	31,771.00	255,788.00
1928	274,055.00	243,969.00	30,086.00	285,874.00
1929	294,071.00	261,360.00	32,711.00	318,585.00
1930	319,115.00	282,123.00	36,992.00	355,577.00
1931	256,665.00	228,038.00	28,627.00	384,204.00
1932	174,830.00	152,872.00	21,958.00	406,162.00
1933	107,759.00	91,812.00	15,947.00	422,109.00
1934	77,404.00	64,371.00	13,033.00	435,142.00
1935	153,593.00	138,180.00	15,413.00	450,555.00
1936	171,954.00	152,163.00	19,791.00	470,346.00

1937	401,621.00	346,091.00	55,530.00	525,876.00	
1938	341,977.00	293,606.00	48,371.00	574,247.00	
1939	480,946.00	432,751.00	48,195.00	622,442.00	
1940	500,147.00	421,249.00	78,898.00	701,340.00	
1941	794,559.00	651,364.00	143,195.00	844,535.00	
1942	441,484.00	365,025.00	76,459.00	920,994.00	
1943	299,724.00	245,587.00	54,137.00	975,131.00	
1944	423,896.00	368,808.00	55,088.00	1,030,219.00	
1945	268,685.00	222,543.00	46,142.00	1,076,361.00	
1946	519,319.00	402,418.00	116,901.00	1,193,262.00	
1947	654,605.00	482,554.00	172,051.00	1,365,313.00	
1948	1,319,816.00	1,082,005.00	237,811.00	1,603,124.00	
1949	2,338,089.00	1,981,460.00	356,629.00	1,959,753.00	
1950	2,904,467.00	2,378,963.00	525,504.00	2,485,257.00	0.10
1951	2,503,131.00	1,873,451.00	629,680.00	3,114,937.00	0.10
1952	3,785,309.00	3,066,977.00	718,332.00	3,833,269.00	0.10
1953	3,409,003.00	2,651,803.00	757,200.00	4,590,469.00	0.10
1954	2,376,589.00	1,890,894.00	485,695.00	5,076,164.00	0.10
1955	3,640,972.00	2,786,827.00	854,145.00	5,930,309.00	0.10
1956	3,640,372.00	2,762,004.00	878,368.00	6,808,677.00	0.10
1957	4,808,664.00	3,630,169.00	1,178,495.00	7,987,172.00	0.20
1958	5,520,679.00	3,966,189.00	1,554,490.00	9,541,662.00	0.20
1959	7,384,267.00	5,251,573.00	2,132,694.00	11,674,356.00	0.20
1960	5,196,280.00	3,606,940.00	1,589,340.00	13,263,696.00	0.30
1961	7,576,560.00	5,297,667.00	2,278,893.00	15,542,589.00	0.30
1962	6,518,624.00	4,520,290.00	1,998,334.00	17,540,923.00	0.40
1963	7,646,054.00	5,475,207.00	2,170,847.00	19,711,770.00	0.40
1964	7,802,190.00	5,465,722.00	2,336,468.00	22,048,238.00	0.50
1965	7,348,222.00	4,915,253.00	2,432,969.00	24,481,207.00	0.50
1966	9,083,933.00	6,075,733.00	3,008,200.00	27,489,407.00	0.60
1967	8,837,926.00	5,615,015.00	3,222,911.00	30,712,318.00	0.60
1968	10,409,666.00	6,694,987.00	3,714,679.00	34,426,997.00	0.70
1969	9,697,294.00	6,190,316.00	3,506,978.00	37,933,975.00	0.80
1970	8,307,200.00	5,331,111.00	2,976,089.00	40,910,064.00	0.80
1971	11,391,901.00	7,104,143.00	4,287,758.00	45,197,822.00	0.90
1972	16,630,518.00	10,091,432.00	6,539,086.00	51,736,908.00	1.10
1973	17,373,329.00	10,260,277.00	7,113,052.00	58,849,960.00	1.20
1974	16,148,027.00	9,691,412.00	6,456,615.00	65,306,575.00	1.30
1975	11,121,531.00	6,883,217.00	4,238,314.00	69,544,889.00	1.40
1976	10,640,106.00	6,684,396.00	3,955,710.00	73,500,599.00	1.50
1977	16,660,869.00	9,892,281.00	6,768,588.00	80,269,187.00	1.70
1978	23,028,831.00	14,845,489.00	8,183,342.00	88,452,529.00	1.80
1979	23,070,157.00	13,359,426.00	9,710,731.00	98,163,260.00	2.00
1980	25,697,496.00	14,317,201.00	11,380,295.00	109,543,555.00	2.30
1981	38,303,933.00	21,348,451.00	16,955,482.00	126,499,037.00	2.60
1982	30,101,163.00	16,952,740.00	13,148,423.00	139,647,460.00	2.90
1983	21,063,489.00	13,748,398.00	7,315,091.00	146,962,551.00	3.00
1984	33,376,150.00	21,636,940.00	11,739,210.00	158,701,761.00	3.30
1985	43,485,421.00	26,704,421.00	16,781,000.00	175,482,761.00	3.60
1986	29,745,424.00	17,680,015.00	12,065,409.00	187,548,170.00	3.90
1987	51,468,815.00	31,151,594.00	20,317,221.00	207,865,391.00	4.30
1988	35,509,446.00	21,129,159.00	14,380,287.00	222,245,678.00	4.60
1989	35,985,445.00	20,263,364.00	15,722,081.00	237,967,759.00	4.90
1990	50,988,334.00	28,867,147.00	22,121,187.00	260,088,946.00	5.30
1991	43,933,979.00	24,185,607.00	19,748,372.00	279,837,318.00	5.80
1992	53,127,664.00	29,046,709.00	24,080,955.00	303,918,273.00	6.30
1993	42,287,555.00	22,775,497.00	19,512,058.00	323,430,331.00	6.70

1994	45,379,292.00	24,173,303.00	21,205,989.00	344,636,320.00	7.10
1995	45,500,669.00	23,460,806.00	22,039,863.00	366,676,183.00	7.50
1996	36,773,235.00	18,440,310.00	18,332,925.00	385,009,108.00	7.90
1997	48,938,060.00	24,527,055.00	24,411,005.00	409,420,113.00	8.40
1998	34,368,160.00	16,350,474.00	18,017,686.00	427,437,799.00	8.80
1999	39,897,071.00	18,706,799.00	21,190,272.00	448,628,071.00	9.20
2000	32,005,625.00	14,146,405.00	17,859,220.00	466,487,291.00	9.60
2001	52,745,604.00	23,127,168.00	29,618,436.00	496,105,727.00	10.20
2002	66,413,726.00	28,485,216.00	37,928,510.00	534,034,237.00	11.00
2003	60,557,891.00	24,933,240.00	35,624,651.00	569,658,888.00	11.70
2004	69,807,421.00	27,902,056.00	41,905,365.00	611,564,253.00	12.60
2005	96,699,748.00	46,777,988.00	49,921,760.00	661,486,013.00	13.60
2006	74,919,789.00	28,212,443.00	46,707,346.00	708,193,359.00	14.60
2007	68,845,421.00	25,161,297.00	43,684,124.00	751,877,483.00	15.50
2008	67,726,272.00	24,274,743.00	43,451,529.00	795,329,012.00	16.40
2009	73,164,911.00	26,313,819.00	46,851,092.00	842,180,104.00	17.30
2010	62,429,488.00	19,495,897.00	42,933,591.00	885,113,695.00	18.20
2011	83,734,181.00	28,767,081.00	54,967,100.00	940,080,795.00	19.30
2012	111,056,652.00	32,473,933.00	78,582,719.00	1,018,663,514.00	21.00
2013	84,352,050.00	22,587,020.00	61,765,030.00	1,080,428,544.00	22.20
2014	98,568,427.00	25,519,568.00	73,048,859.00	1,153,477,403.00	23.70
2015	106,251,454.00	31,843,044.00	74,408,410.00	1,227,885,813.00	25.30
2016	114,495,972.00	28,837,166.00	85,658,806.00	1,313,544,619.00	27.00
2017	193,882,233.00	47,145,793.00	146,736,440.00	1,460,281,059.00	30.00
2018	226,190,605.00	43,062,957.00	183,127,648.00	1,643,408,707.00	33.80
2019	233,941,790.00	41,921,347.00	192,020,443.00	1,835,429,150.00	37.80
2020	236,831,347.00	39,647,203.00	197,184,144.00	2,032,613,294.00	41.80
2021	336,655,448.00	53,024,581.00	283,630,867.00	2,316,244,161.00	47.60
2022	384,693,864.00	44,116,597.00	340,577,267.00	2,656,821,428.00	54.60
2023	579,675,203.00	64,519,816.00	515,155,387.00	3,171,976,815.00	65.20
2024	574,033,085.00	44,155,497.00	529,877,588.00	3,701,854,403.00	76.10
2025	490,939,798.00	18,464,485.00	472,475,313.00	4,174,329,716.00	85.90
2026	705,339,589.00	17,863,828.00	687,475,761.00	4,861,805,477.00	100.00
TOTAL	6,363,456,366.00	1,501,650,889.00	4,861,805,477.00		

UTILITY PLANT IN SERVICE

SURVIVOR CURVE.. 40-SQUARE
NET SALVAGE PERCENT: 0

2014	6,672,546.69	2,071,292	1,613,328	5,059,219	27.58	183,438
2016	53,940.90	14,047	10,941	43,000	29.57	1,454
2025	3,535.71	125	97	3,439	38.64	89
2026	12,231,156.14	280,338	218,356	12,012,800	39.08	307,390
	18,961,179.44	2,365,802	1,842,722	17,118,457		492,371

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 34.80 2.60

SURVIVOR CURVE.. 5-SQUARE
NET SALVAGE PERCENT: 0

2012	443,379.38	443,379	443,379			
2013	69,817.64	69,818	69,818			
2016	452,941.16	452,941	452,941			
2017	4,045.48	4,045	4,045			
2018	502,260.66	502,261	502,261			
2020	2,285,025.14	2,285,025	2,285,025			
2021	6,559,801.70	6,559,802	6,559,802			
2022	5,990,060.13	5,291,200	4,775,028	1,215,032	1.00	1,215,032
2023	27,468,573.89	18,770,101	16,939,023	10,529,551	1.58	6,664,273
2024	24,652,669.76	11,915,375	10,752,995	13,899,675	2.58	5,387,471
2025	1,215,493.59	344,386	310,790	904,704	3.58	252,711
	69,644,068.53	46,638,333	43,095,107	26,548,962		13,519,487

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 2.00 19.41

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2015	295,715.66	225,072	47,720	247,996	3.58	69,273
2016	289,828.04	201,268	42,673	247,155	4.58	53,964
2017	202,097.77	126,873	26,900	175,198	5.58	31,397
2019	3,464,658.24	1,713,066	363,204	3,101,454	7.58	409,163
2020	2,952,009.33	1,262,811	267,741	2,684,268	8.58	312,852
2021	1,843,374.50	665,661	141,134	1,702,240	9.58	177,687
2022	1,523,378.34	448,544	95,100	1,428,278	10.58	134,998
2023	1,252,679.74	285,335	60,497	1,192,183	11.58	102,952
2024	52,723.58	8,494	1,801	50,923	12.58	4,048
	11,876,465.20	4,937,124	1,046,770	10,829,695		1,296,334

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 8.40 10.92

SURVIVOR CURVE.. 10-SQUARE
NET SALVAGE PERCENT: 0

2012	717,477.53	717,478	717,478			
2013	144,771.93	144,772	144,772			
2014	330,468.51	330,469	330,469			
2015	6,075,099.41	6,075,099	6,075,099			
2016	2,285,083.75	2,285,084	2,285,084			
2017	322,127.80	303,338	322,128			
2019	3,715,571.91	2,755,728	3,715,572			
2020	310,519.61	199,251	310,520			
2021	1,220,824.21	661,284	1,220,824			
2022	606.67	268	602	5	5.00	1
2023	2,631,854.80	899,226	2,019,866	611,989	6.58	93,007
2024	590,540.88	142,716	320,573	269,968	7.58	35,616
	18,344,947.01	14,514,713	17,462,987	881,960		128,624

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.90 0.70

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1938	2,365.49	2,170	2,365			
1954	662.55	554	663			
1966	474.91	350	475			
1983	5,657.27	3,316	5,657			
2008	130,279.99	33,834	74,282	55,998	52.48	1,067
	139,440.21	40,224	83,442	55,998		1,067

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 52.50 0.77

SURVIVOR CURVE: IOWA 45-L0
NET SALVAGE PERCENT: 0

1890	13.00	11	13			
1897	620.75	503	621			
1899	305.00	245	305			
1900	263.11	210	263			
1901	378.47	302	378			
1908	11.01	9	11			
1909	45.50	35	45			
1910	1.00	1	1			
1914	105.50	79	101	4		
1915	25.11	19	24	1		
1916	58.60	44	56	3		
1917	2.75	2	3			
1919	56.45	41	52	4		
1921	34.54	25	32	3		
1922	16.94	12	15	2		
1926	110.00	78	100	10	10.00	1
1931	44.62	31	40	5		
1937	39.01	26	33	6		
1941	198.30	128	164	34	17.00	2
1943	103.13	65	83	20	20.00	1
1945	15.81	10	13	3		
1946	4.87	3	4	1		
1947	22.60	14	18	5		
1948	100.00	61	78	22	22.00	1
1950	70.00	42	54	16	16.00	1
1953	166.24	98	125	41	20.50	2
1955	8.17	5	6	2		
1956	95.00	54	69	26	26.00	1
1957	187.00	106	136	51	17.00	3
1958	235.50	132	169	66	22.00	3
1959	280.00	156	200	80	20.00	4
1960	81.57	45	58	24	24.00	1
1961	332.30	182	233	99	19.80	5
1965	440.34	231	296	144	20.57	7
1966	37.55	20	26	12	12.00	1
1968	218.17	111	142	76	25.33	3
1970	23.61	12	15	9		
1971	728.26	357	457	271	22.58	12
1972	2,608.99	1,264	1,618	991	23.05	43
1973	116.76	56	72	45	22.50	2
1974	969.05	458	586	383	23.94	16
1975	72.25	34	44	28	28.00	1
1977	1,441.00	654	837	604	24.16	25
1978	765.00	343	439	326	25.08	13
1979	82.70	36	46	37	37.00	1
1980	91.23	40	51	40	20.00	2
1982	195.00	82	105	90	30.00	3
1995	2,658.92	1,537	1,969	690	23.00	30
	14,480.68	8,009	10,206	4,275		184

SURVIVOR CURVE: IOWA 65-R2.5
NET SALVAGE PERCENT: 0

1901	1,674.68	1,675	1,675			
1910	22.78	22	23			
1923	1,969.07	1,832	1,969			
1924	25.41	24	25			
1927	43.28	40	43			
1938	1,018.56	895	1,009	10	10.00	1
1948	385.48	323	364	21	10.50	2
1959	410.49	319	359	51	12.75	4
1974	3,366.13	2,210	2,490	876	22.46	39
1976	518.00	330	372	146	24.33	6
1980	1,507.30	900	1,014	493	25.95	19
1981	923.36	541	610	313	26.08	12
2005	9,119.74	3,242	3,653	5,467	38.77	141
	20,984.28	12,353	13,606	7,378		224

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 32.90 1.07

SURVIVOR CURVE: IOWA 75-R2.5
NET SALVAGE PERCENT: 0

1875	1.00	1	1
1888	137.42	137	137
1889	130.52	130	131
1890	1,873.28	1,855	1,873
1891	1,372.99	1,355	1,373
1892	924.40	909	924
1893	699.05	685	699
1894	3,023.40	2,952	3,023
1895	218.54	213	219
1896	1,259.83	1,221	1,260
1897	1,642.16	1,586	1,642
1898	1,409.64	1,356	1,410
1899	2,897.90	2,777	2,898
1900	2,874.97	2,745	2,875
1901	10,007.57	9,518	10,008
1902	4,457.09	4,223	4,457
1903	7,504.57	7,084	7,505
1904	5,966.84	5,612	5,967
1905	9,920.15	9,296	9,920
1906	6,726.76	6,283	6,727
1907	4,784.95	4,454	4,785
1908	3,068.84	2,847	3,069
1909	6,824.39	6,311	6,824
1910	3,360.27	3,097	3,360
1911	2,637.18	2,423	2,637
1912	5,250.72	4,810	5,251
1913	3,998.45	3,651	3,998
1914	5,211.01	4,743	5,211
1915	3,526.25	3,199	3,526
1916	9,327.91	8,435	9,328
1917	11,339.21	10,220	11,339
1918	5,939.02	5,336	5,939
1919	10,034.15	8,984	10,034
1920	8,068.68	7,199	8,069
1921	9,874.37	8,780	9,874
1922	13,323.29	11,806	13,323
1923	12,530.40	11,065	12,530
1924	23,943.35	21,067	23,943
1925	11,074.30	9,709	11,074
1926	10,137.05	8,854	10,137
1927	11,336.06	9,864	11,336
1928	3,835.08	3,324	3,835
1929	3,297.79	2,848	3,298
1930	7,617.74	6,551	7,618
1931	362.17	310	362
1932	666.58	569	667
1933	1,250.79	1,062	1,251
1934	192.41	163	192
1935	1,203.89	1,013	1,204
1936	3,095.27	2,593	3,095
1937	896.03	747	896
1938	3,164.87	2,626	3,165
1939	2,701.60	2,230	2,702
1940	3,447.99	2,831	3,436

SURVIVOR CURVE: IOWA 75-R2.5
NET SALVAGE PERCENT: 0

1941	4,750.60	3,879	4,708	43	14.33	3
1942	8,225.90	6,678	8,105	121	13.44	9
1943	7,793.53	6,290	7,634	160	14.55	11
1944	6,001.22	4,815	5,844	157	14.27	11
1945	4,000.28	3,189	3,870	130	14.44	9
1946	3,848.61	3,048	3,699	150	15.00	10
1947	1,776.17	1,397	1,696	80	16.00	5
1948	2,046.38	1,598	1,939	107	15.29	7
1949	1,945.89	1,509	1,831	115	16.43	7
1950	1,033.21	795	965	68	17.00	4
1951	6,743.01	5,149	6,249	494	17.64	28
1952	5,227.54	3,960	4,806	422	18.35	23
1953	3,419.00	2,568	3,117	302	18.88	16
1954	4,135.13	3,079	3,737	398	18.95	21
1955	3,153.08	2,327	2,824	329	19.35	17
1956	13,433.71	9,824	11,923	1,511	20.15	75
1957	5,572.78	4,038	4,901	672	20.36	33
1958	7,746.35	5,558	6,746	1,000	21.28	47
1959	8,167.31	5,801	7,041	1,126	21.65	52
1960	3,263.45	2,294	2,784	479	22.81	21
1961	3,904.37	2,715	3,295	609	22.56	27
1962	5,795.30	3,986	4,838	957	23.34	41
1963	5,947.65	4,044	4,908	1,040	24.19	43
1964	6,467.83	4,347	5,276	1,192	24.83	48
1965	5,532.56	3,674	4,459	1,074	24.98	43
1966	11,080.22	7,267	8,820	2,260	25.68	88
1967	5,622.33	3,641	4,419	1,203	26.15	46
1968	3,247.97	2,076	2,520	728	26.96	27
1969	4,053.75	2,557	3,103	951	27.97	34
1970	25,742.29	16,015	19,437	6,305	28.40	222
1971	51,947.30	31,861	38,670	13,277	28.99	458
1972	27,208.63	16,445	19,959	7,250	29.71	244
1973	21,080.78	12,553	15,236	5,845	30.28	193
1974	11,679.68	6,849	8,313	3,367	30.89	109
1975	15,635.72	9,025	10,954	4,682	31.64	148
1976	24,795.30	14,081	17,090	7,705	32.37	238
1977	9,701.66	5,419	6,577	3,125	33.24	94
1978	12,975.14	7,124	8,646	4,329	33.82	128
1979	18,968.48	10,233	12,420	6,548	34.46	190
1980	8,113.79	4,298	5,216	2,898	35.34	82
1981	16,632.83	8,649	10,497	6,136	36.09	170
1982	8,839.18	4,509	5,473	3,366	36.59	92
1983	11,652.16	6,628	8,044	3,608	32.80	110
1984	61,906.30	34,661	42,068	19,838	33.34	595
1985	15,651.08	8,556	10,384	5,267	34.42	153
1986	17,645.91	9,485	11,512	6,134	34.85	176
1987	4,920.02	2,599	3,154	1,766	35.32	50
1988	38,191.05	19,661	23,863	14,328	36.18	396
1989	8,167.54	4,125	5,007	3,161	36.76	86
1990	1,377.08	682	828	549	36.60	15
1991	28,921.57	13,932	16,909	12,013	38.14	315
1992	11,012.64	5,192	6,302	4,711	38.61	122
1993	5,340.25	2,463	2,989	2,351	39.18	60
1994	15,466.03	6,920	8,399	7,067	40.15	176
1995	5,379.78	2,349	2,851	2,529	40.79	62

SURVIVOR CURVE: IOWA 75-R2.5
NET SALVAGE PERCENT: 0

1996	12,980.22	5,527	6,708	6,272	40.99	153
1997	7,464.80	3,074	3,731	3,734	41.96	89
1998	3,484.33	1,396	1,694	1,790	42.62	42
1999	15.50	6	7	8		
2000	16,002.37	6,002	7,285	8,717	44.03	198
2001	26,595.59	9,667	11,733	14,863	44.50	334
2002	309,217.69	108,721	131,954	177,264	45.03	3,937
2003	155,944.14	52,943	64,257	91,687	45.55	2,013
2004	64,143.30	20,847	25,302	38,841	46.57	834
2005	520.27	163	198	322	46.00	7
2006	25,903.77	7,774	9,435	16,469	47.60	346
2007	586.03	167	203	383	47.88	8
2008	82,248.26	22,421	27,212	55,036	49.14	1,120
2009	356.34	92	112	244	48.80	5
2010	4.00	1	1	3		
2011	17,137.51	3,990	4,843	12,295	50.81	242
2012	44.11	10	12	32	32.00	1
2015	567.59	100	121	447	55.88	8
2021	692.28	61	74	618	56.18	11
2024	332,035.65	13,481	16,362	315,674	57.11	5,527
2025	92,164.89	2,258	2,740	89,425	56.38	1,586
2026	80,696.98	1,299	1,577	79,120	55.92	1,415
	2,132,063.08	880,076	1,042,773	1,089,290		23,367

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 46.60 1.10

SURVIVOR CURVE: IOWA 50-S0.5
NET SALVAGE PERCENT: 0

1906	456.70	457	457			
1910	74.04	74	74			
1929	30.85	30	31			
1937	65.76	61	66			
1938	15,789.80	14,523	15,790			
1942	15.48	14	15			
1944	26.10	23	26			
1945	62.03	54	62			
1947	109.05	94	109			
1952	6,242.77	5,153	6,061	182	8.67	21
1956	25,047.82	19,973	23,493	1,555	10.10	154
1957	1,353.14	1,070	1,259	94	10.44	9
1958	34.99	27	32	3		
1959	13.86	11	13	1		
1960	603.38	464	546	57	11.40	5
1962	2,018.73	1,523	1,791	228	12.00	19
1963	1,533.76	1,145	1,347	187	12.47	15
1964	43,478.50	32,148	37,814	5,664	13.02	435
1967	3,629.38	2,601	3,059	570	14.25	40
1968	5,768.79	4,089	4,810	959	14.53	66
1969	479.85	336	395	85	14.17	6
1970	1,385.27	960	1,129	256	15.06	17
1971	23,326.32	15,983	18,800	4,526	15.72	288
1972	3,121.79	2,114	2,487	635	16.28	39
1973	786.18	526	619	167	16.70	10
1974	139,894.30	92,442	108,734	31,160	16.96	1,837
1975	609.27	398	468	141	17.63	8
1976	705.18	454	534	171	17.10	10
1977	3,035.23	1,930	2,270	765	18.21	42
1978	6,870.73	4,309	5,068	1,803	18.59	97
1980	11,213.10	6,836	8,041	3,172	19.58	162
1982	703.50	416	489	214	21.40	10
1983	607.35	427	502	105	17.50	6
1985	67,767.23	46,590	54,801	12,966	18.82	689
1987	2,626.40	1,760	2,070	556	19.17	29
1988	1,274.00	842	990	284	20.29	14
1990	13,349.43	8,556	10,064	3,285	20.40	161
1991	32,762.97	20,654	24,294	8,469	20.76	408
1992	26,698.28	16,540	19,455	7,243	21.12	343
1994	42,278.62	25,219	29,664	12,615	21.94	575
1995	118,256.75	69,109	81,289	36,968	22.34	1,655
1996	9,454.33	5,406	6,359	3,095	22.76	136
1997	5,432.04	3,052	3,590	1,842	23.03	80
1998	169,768.23	93,101	109,510	60,258	23.40	2,575
2002	498,453.49	247,083	290,630	207,823	24.84	8,366
2003	113,286.62	54,649	64,281	49,006	25.13	1,950
2004	63,989.80	29,838	35,097	28,893	25.66	1,126
2005	70,222.38	31,733	37,326	32,896	25.98	1,266
2006	87,641.30	38,290	45,038	42,603	26.31	1,619
2007	44,851.16	18,896	22,226	22,625	26.68	848
2008	260,198.94	104,938	123,433	136,766	27.25	5,019
2009	8,618,992.07	3,332,102	3,919,372	4,699,620	27.63	170,091
2010	201,983.09	74,613	87,763	114,220	28.03	4,075
2011	226,605.73	79,992	94,090	132,516	28.25	4,691

SURVIVOR CURVE: IOWA 50-S0.5
NET SALVAGE PERCENT: 0

2014	44,041.32	13,014	15,308	28,733	29.59	971
2017	195,540.18	45,854	53,936	141,604	30.74	4,607
2018	68,940.26	14,622	17,199	51,741	31.26	1,655
2019	1,395.07	265	312	1,083	31.85	34
2021	389,650.91	55,720	65,540	324,111	32.46	9,985
2024	634,287.77	42,624	50,136	584,152	33.55	17,411
	12,308,841.37	4,685,727	5,510,164	6,798,677		243,675

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 27.90 1.98

SURVIVOR CURVE: IOWA 33-S0
NET SALVAGE PERCENT: 0

1926	26.31	26	26			
1931	218.45	218	218			
1933	44.94	45	45			
1936	73.64	74	74			
1937	531.89	532	532			
1939	100.05	100	100			
1940	956.27	956	956			
1941	898.87	899	899			
1942	629.69	630	630			
1943	248.82	249	249			
1944	261.20	261	261			
1945	217.29	217	217			
1946	820.91	821	821			
1947	921.97	922	922			
1948	1,216.34	1,216	1,216			
1949	1,134.41	1,134	1,134			
1950	567.10	567	567			
1951	543.96	544	544			
1952	1,053.47	1,053	1,053			
1953	1,069.33	1,069	1,069			
1954	633.57	634	634			
1955	741.69	742	742			
1956	1,395.06	1,395	1,395			
1957	2,346.89	2,347	2,347			
1958	2,203.34	2,203	2,203			
1959	3,274.42	3,274	3,274			
1960	2,528.27	2,528	2,528			
1961	2,559.62	2,542	2,560			
1962	1,874.02	1,841	1,865	9	1.00	9
1963	2,029.56	1,971	1,997	33	1.00	33
1964	2,616.00	2,511	2,544	72	1.31	55
1965	1,273.78	1,209	1,225	49	1.69	29
1966	2,269.62	2,128	2,156	114	2.07	55
1967	1,324.41	1,227	1,243	81	2.45	33
1968	1,734.23	1,587	1,608	126	2.80	45
1969	3,425.35	3,095	3,137	288	3.16	91
1970	1,286.76	1,148	1,163	124	3.54	35
1971	668.05	588	596	72	4.00	18
1972	1,383.67	1,203	1,219	165	4.34	38
1973	761.21	653	662	99	4.71	21
1974	719.26	608	616	103	5.15	20
1975	963.27	803	814	149	5.52	27
1977	536.39	435	441	95	6.33	15
1978	215.76	172	174	42	7.00	6
1980	9.48	7	7	2		
1981	87.81	67	68	20	6.67	3
1983	39.62	33	33	7	7.00	1
1984	99.50	83	84	16	8.00	2
1988	14.12	11	11	3		
1990	20.61	16	16	5		
1991	96.00	73	74	22	11.00	2
1996	73.72	52	53	21	10.50	2
1999	618.21	414	420	198	13.20	15
2023	11,419.39	1,663	1,685	9,734	20.07	485

SURVIVOR CURVE: IOWA 33-S0
NET SALVAGE PERCENT: 0

2026	37,237.28	1,616	1,638	35,599	20.18	1,764
	100,014.85	52,412	52,765	47,250		2,804

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.90 2.80

SURVIVOR CURVE: IOWA 60-R2.5
NET SALVAGE PERCENT: 0

1906	29.99	30	30		
1923	95.58	92	96		
1925	385.22	368	385		
1930	2,807.06	2,623	2,807		
1931	435.00	405	435		
1934	601.82	553	602		
1937	1,286.00	1,168	1,286		
1938	651.10	589	651		
1939	189.89	171	190		
1940	636.24	571	636		
1942	77.88	69	78		
1943	2,016.88	1,786	2,017		
1945	452.54	397	453		
1946	2,458.57	2,148	2,459		
1947	904.95	787	905		
1948	1,112.43	963	1,112		
1949	221.89	191	222		
1951	66.26	56	66		
1952	571.42	484	571		
1955	411.60	343	412		
1958	1,144.69	935	1,145		
1959	31,709.01	25,721	31,709		
1960	1,570.53	1,265	1,571		
1961	3,625.00	2,896	3,625		
1962	1,076.72	853	1,077		
1963	680.33	535	680		
1964	4,511.67	3,514	4,512		
1965	831.40	642	831		
1966	114.36	87	114		
1968	36,991.24	27,694	36,991		
1969	245.28	182	245		
1971	2,313.81	1,674	2,314		
1972	612.48	438	612		
1974	22,623.29	15,750	22,034	589	18.41
1975	3,901.22	2,679	3,748	153	19.13
1976	208.11	141	197	11	11.00
1977	26,345.91	17,573	24,585	1,761	20.01
1979	2,212.93	1,431	2,002	211	21.10
1980	97,670.75	62,102	86,881	10,790	21.84
1981	643.50	402	562	82	20.50
1982	5,146.63	3,161	4,422	725	23.39
1983	4,071.13	2,740	3,833	238	21.64
1984	20,420.45	13,512	18,903	1,517	21.67
1985	5,137.69	3,341	4,674	464	22.10
1986	3,301.96	2,109	2,951	351	23.40
1987	20,490.35	12,841	17,965	2,525	23.38
1988	10,481.87	6,443	9,014	1,468	24.07
1989	22,648.83	13,644	19,088	3,561	24.73
1990	2,552.29	1,506	2,107	445	24.72
1991	41,020.96	23,681	33,130	7,891	25.96
1992	106,311.11	60,002	83,943	22,368	26.57
1994	130,682.51	70,320	98,378	32,305	27.83
1995	18,382.83	9,645	13,493	4,890	28.43
1997	10,281.55	5,111	7,150	3,132	29.83
					105

SURVIVOR CURVE: IOWA 60-R2.5
NET SALVAGE PERCENT: 0

1999	18,151.93	8,510	11,906	6,246	31.07	201
2001	18,550.28	8,157	11,412	7,138	32.45	220
2002	28,964.69	12,377	17,315	11,650	32.72	356
2005	7,907.93	3,015	4,218	3,690	34.81	106
2006	7,372.59	2,695	3,770	3,603	35.32	102
2008	46,189.52	15,395	21,538	24,652	36.85	669
2012	1,028,723.58	275,904	385,991	642,733	39.34	16,338
2013	4,370.54	1,097	1,535	2,836	39.94	71
2014	54,393.11	12,695	17,760	36,633	40.79	898
2017	33,443.06	6,047	8,460	24,983	42.71	585
2019	2,790.13	406	568	2,222	43.57	51
2021	19,981.66	2,154	3,013	16,969	44.77	379
	1,926,213.73	756,816	1,047,385	878,829		23,676

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.10 1.23

SURVIVOR CURVE: IOWA 25-L1
 NET SALVAGE PERCENT: 0

1921	6,345.07	6,345	6,345	
1933	5.00	5	5	
1942	23.70	24	24	
1965	620.40	541	620	
1974	1,086.16	874	1,086	
1981	177.94	133	178	
1982	113.94	84	114	
1985	312.58	269	313	
1994	198.47	158	198	
1995	16.42	13	16	
1997	314.81	242	1,562	(1,247)
	9,214.49	8,688	10,461	(1,247)

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 26-L1
NET SALVAGE PERCENT: 0

1921	1,219.94	1,220	1,220			
1945	420.81	415	397	24	1.00	24
1954	1,258.20	1,169	1,117	141	1.86	76
1979	31.01	23	22	9	9.00	1
1984	30.56	26	25	6	6.00	1
	2,960.52	2,853	2,781	180		102

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 1.80 3.45

SURVIVOR CURVE: IOWA 65-R1.5
NET SALVAGE PERCENT: 0

1875	75.16	75	75			
1886	520.14	520	520			
1889	52.06	52	52			
1890	36,354.03	36,354	36,354			
1891	140.08	140	140			
1892	2,494.58	2,495	2,495			
1893	4,580.42	4,580	4,580			
1894	17,753.23	17,753	17,753			
1895	7,748.35	7,748	7,748			
1896	2,804.50	2,799	2,804			
1897	6,577.95	6,531	6,578			
1898	28,504.51	28,180	28,505			
1899	45,233.42	44,482	45,233			
1900	44,936.91	43,969	44,937			
1901	75,788.02	73,771	75,788			
1902	62,162.02	60,192	62,162			
1903	63,229.81	60,895	63,230			
1904	45,849.12	43,917	45,849			
1905	106,164.97	101,135	106,165			
1906	18,440.91	17,473	18,441			
1907	106,065.42	99,995	106,065			
1908	88,813.63	83,321	88,814			
1909	23,921.75	22,343	23,922			
1910	30,804.32	28,648	30,804			
1911	3,375.49	3,127	3,375			
1912	2,871.43	2,649	2,871			
1913	34,663.84	31,864	34,664			
1914	39,815.56	36,459	39,816			
1915	6,595.24	6,017	6,595			
1916	15,317.81	13,923	15,318			
1917	39,541.33	35,800	39,541			
1918	24,424.16	22,023	24,424			
1919	21,908.10	19,677	21,908			
1920	29,904.63	26,744	29,905			
1921	8,800.90	7,838	8,801			
1922	84,055.95	74,526	84,056			
1923	33,459.49	29,537	33,459			
1924	36,680.88	32,234	36,681			
1925	39,041.01	34,146	39,041			
1926	16,145.16	14,054	16,145			
1927	58,395.26	50,588	58,340	55	9.17	6
1928	22,375.18	19,287	22,242	133	8.87	15
1929	44,550.74	38,211	44,066	485	9.33	52
1930	30,000.51	25,602	29,525	476	9.52	50
1931	28,748.77	24,405	28,145	604	9.74	62
1932	8,366.78	7,065	8,148	219	9.95	22
1933	11,514.41	9,672	11,154	360	10.29	35
1934	3,350.90	2,799	3,228	123	11.18	11
1935	8,307.47	6,902	7,960	347	10.84	32
1936	3,626.86	2,996	3,455	172	11.47	15
1937	15,932.51	13,087	15,092	841	11.68	72
1938	37,131.75	30,323	34,969	2,163	11.95	181
1939	82,635.47	67,088	77,368	5,267	12.22	431
1940	29,323.94	23,662	27,288	2,036	12.57	162

SURVIVOR CURVE: IOWA 65-R1.5
NET SALVAGE PERCENT: 0

1941	179,685.02	144,080	166,158	13,527	12.88	1,050
1942	42,469.73	33,839	39,024	3,446	13.20	261
1943	36,336.76	28,767	33,175	3,162	13.51	234
1944	122,800.02	96,577	111,376	11,424	13.88	823
1945	90,660.69	70,813	81,664	8,997	14.24	632
1946	51,628.91	40,048	46,185	5,444	14.60	373
1947	52,154.16	40,167	46,322	5,832	14.95	390
1948	16,449.89	12,578	14,505	1,945	15.31	127
1949	52,672.35	39,974	46,099	6,573	15.69	419
1950	55,572.13	41,850	48,263	7,309	16.06	455
1951	54,367.38	40,625	46,850	7,517	16.41	458
1952	65,379.43	48,451	55,875	9,504	16.82	565
1953	101,242.23	74,405	85,806	15,436	17.23	896
1954	56,740.45	41,351	47,687	9,053	17.65	513
1955	53,292.90	38,494	44,393	8,900	18.05	493
1956	314,922.25	225,437	259,981	54,941	18.47	2,975
1957	483,141.03	342,658	395,164	87,977	18.90	4,655
1958	187,302.88	131,573	151,734	35,569	19.34	1,839
1959	321,323.98	223,542	257,796	63,528	19.78	3,212
1960	242,979.86	167,321	192,960	50,020	20.24	2,471
1961	93,375.89	63,639	73,391	19,985	20.71	965
1962	179,821.52	121,255	139,835	39,987	21.17	1,889
1963	242,921.87	162,009	186,834	56,088	21.65	2,591
1964	234,778.84	154,808	178,530	56,249	22.14	2,541
1965	159,250.52	103,807	119,714	39,537	22.63	1,747
1966	209,553.27	134,984	155,668	53,885	23.13	2,330
1967	269,490.68	171,480	197,756	71,735	23.64	3,034
1968	196,619.44	123,538	142,468	54,151	24.16	2,241
1969	617,808.20	383,134	441,842	175,966	24.69	7,127
1970	107,858.23	66,009	76,124	31,734	25.23	1,258
1971	490,025.24	295,823	341,153	148,872	25.76	5,779
1972	1,342,996.48	799,392	921,885	421,111	26.31	16,006
1973	533,490.37	312,956	360,911	172,579	26.87	6,423
1974	696,754.57	402,620	464,314	232,441	27.44	8,471
1975	994,581.58	565,996	652,725	341,857	28.01	12,205
1976	572,957.62	320,942	370,121	202,837	28.59	7,095
1977	1,222,658.44	673,783	777,028	445,630	29.18	15,272
1978	595,091.02	322,539	371,962	223,129	29.77	7,495
1979	709,715.44	378,115	436,054	273,661	30.37	9,011
1980	850,569.33	445,171	513,386	337,183	30.98	10,884
1981	719,641.39	369,788	426,451	293,190	31.60	9,278
1982	744,081.56	375,248	432,748	311,334	32.22	9,663
1983	494,091.01	300,309	346,326	147,765	28.01	5,275
1984	877,563.07	524,870	605,297	272,266	28.50	9,553
1985	2,104,313.97	1,237,547	1,427,179	677,135	29.01	23,341
1986	826,412.09	477,666	550,860	275,552	29.51	9,338
1987	327,857.92	186,092	214,607	113,251	30.03	3,771
1988	2,094,074.77	1,166,400	1,345,130	748,945	30.55	24,515
1989	771,810.32	421,640	486,249	285,561	31.08	9,188
1990	599,366.35	320,841	370,004	229,362	31.61	7,256
1991	1,288,609.50	675,489	778,996	509,614	32.15	15,851
1992	1,516,974.53	777,905	897,105	619,870	32.70	18,956
1993	521,940.25	261,596	301,681	220,259	33.25	6,624
1994	609,579.12	300,340	346,362	263,217	33.38	7,885
1995	600,899.57	288,852	333,113	267,787	33.94	7,890

SURVIVOR CURVE: IOWA 65-R1.5
NET SALVAGE PERCENT: 0

1996	932,845.50	436,945	503,899	428,946	34.52	12,426
1997	2,103,640.34	959,260	1,106,250	997,390	35.10	28,416
1998	445,095.70	197,311	227,545	217,551	35.69	6,096
1999	530,926.75	229,997	265,240	265,687	35.87	7,407
2000	849,825.53	356,927	411,620	438,206	36.48	12,012
2001	929,975.83	378,221	436,177	493,799	37.08	13,317
2002	231,148.18	91,442	105,454	125,694	37.31	3,369
2003	1,237,022.68	472,172	544,524	692,499	37.93	18,257
2004	520,218.80	192,429	221,915	298,304	38.19	7,811
2005	821,936.63	292,198	336,972	484,965	38.83	12,489
2006	556,159.87	190,763	219,994	336,166	39.11	8,595
2007	1,598,590.75	527,695	608,555	990,036	39.41	25,121
2008	2,424,327.67	763,421	880,402	1,543,926	40.06	38,540
2009	1,473,240.47	443,887	511,905	961,335	40.39	23,801
2010	1,873,588.37	538,282	620,764	1,252,824	40.73	30,759
2011	5,115,444.55	1,396,005	1,609,918	3,505,527	41.08	85,334
2012	2,263,124.72	584,112	673,617	1,589,508	41.45	38,348
2013	2,978,341.99	723,141	833,949	2,144,393	41.83	51,264
2014	2,165,572.32	494,833	570,657	1,594,915	41.93	38,038
2015	1,591,075.00	337,944	389,728	1,201,347	42.34	28,374
2016	288,523.93	56,810	65,515	223,009	42.49	5,249
2017	1,077,529.78	194,817	224,669	852,861	42.67	19,987
2018	1,700,888.12	280,647	323,651	1,377,237	42.60	32,330
2019	4,727,421.77	697,767	804,687	3,922,735	42.83	91,588
2020	2,582,613.42	336,515	388,080	2,194,533	42.84	51,226
2021	1,457,820.92	164,296	189,471	1,268,350	42.66	29,732
2022	4,219,045.44	398,700	459,794	3,759,251	42.31	88,850
2023	2,591,492.20	195,658	225,639	2,365,853	41.83	56,559
2024	1,703,471.60	95,054	109,619	1,593,853	40.87	38,998
2025	1,448,615.44	50,412	58,137	1,390,478	39.24	35,435
2026	7,160,716.68	170,425	196,540	6,964,177	37.55	185,464
	88,238,773.81	29,316,892	33,706,307	54,532,467		1,441,927

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.80 1.63

SURVIVOR CURVE: IOWA 35-S0.5
NET SALVAGE PERCENT: 0

1936	295.57	296	296			
1938	3,070.93	3,071	3,071			
1942	247.67	248	248			
1944	275.19	275	275			
1946	10.67	11	11			
1948	1,772.60	1,773	1,773			
1953	50,830.51	50,831	50,831			
1955	463.93	464	464			
1956	32,731.05	32,731	32,731			
1957	5,189.70	5,156	4,791	399	1.00	399
1959	97.35	95	88	9	1.00	9
1963	1,782.96	1,666	1,548	235	2.28	103
1964	405.98	375	348	58	2.64	22
1968	561.58	498	463	99	3.96	25
1969	214.27	188	175	39	4.33	9
1970	1,187.57	1,030	957	231	4.62	50
1971	113,817.57	97,622	90,717	23,101	4.98	4,639
1972	104.84	89	83	22	5.50	4
1973	653.62	548	509	145	5.58	26
1974	417,530.72	345,953	321,483	96,048	6.00	16,008
1976	3,541.86	2,865	2,662	880	6.67	132
1977	33,299.75	26,602	24,720	8,580	7.04	1,219
1978	13,052.24	10,293	9,565	3,487	7.40	471
1979	5,943.43	4,626	4,299	1,644	7.75	212
1980	182.25	140	130	52	8.67	6
1981	8,400.92	6,365	5,915	2,486	8.48	293
1982	3,396.78	2,538	2,358	1,039	8.88	117
1984	1,239.35	1,025	953	286	8.94	32
1985	207,753.28	170,358	158,308	49,445	9.09	5,439
1986	17,101.05	13,893	12,910	4,191	9.33	449
1987	2,698.11	2,159	2,006	692	9.89	70
1988	47,677.92	37,732	35,063	12,615	10.13	1,245
1989	57,389.69	44,879	41,705	15,685	10.43	1,504
1990	125,232.82	96,680	89,842	35,391	10.75	3,292
1991	6,466.06	4,924	4,576	1,890	11.12	170
1992	211,882.09	158,975	147,731	64,151	11.45	5,603
1993	41,508.94	30,791	28,613	12,896	11.63	1,109
1994	123,530.01	90,103	83,730	39,800	12.03	3,308
1995	1,663,710.35	1,196,873	1,112,217	551,493	12.25	45,020
1996	71,955.58	50,779	47,187	24,769	12.69	1,952
1997	19,554.53	13,575	12,615	6,940	12.97	535
1998	106,206.67	72,136	67,034	39,173	13.42	2,919
1999	176,764.57	117,761	109,432	67,333	13.74	4,901
2000	127,589.70	83,252	77,363	50,227	14.07	3,570
2001	33,733.94	21,522	20,000	13,734	14.43	952
2002	6,475,901.88	4,031,897	3,746,716	2,729,186	14.80	184,404
2003	1,410,728.43	858,851	798,103	612,625	15.05	40,706
2004	794,338.76	470,090	436,840	357,499	15.46	23,124
2005	1,357,002.00	781,769	726,473	630,529	15.76	40,008
2006	1,898,828.09	1,058,407	983,545	915,283	16.21	56,464
2007	5,144,556.60	2,777,032	2,580,609	2,563,948	16.55	154,921
2008	2,222,008.24	1,158,111	1,076,196	1,145,812	16.92	67,719
2009	3,479,879.16	1,745,507	1,622,045	1,857,834	17.31	107,327
2010	1,916,370.32	924,840	859,425	1,056,945	17.60	60,054

SURVIVOR CURVE: IOWA 35-S0.5
NET SALVAGE PERCENT: 0

2011	983,148.05	453,231	421,173	561,975	18.03	31,169
2012	154,950.84	68,132	63,313	91,638	18.37	4,988
2013	255,629.73	106,316	98,796	156,834	18.84	8,325
2014	130,102.83	51,052	47,441	82,662	19.23	4,299
2015	159,100.24	58,676	54,526	104,574	19.54	5,352
2016	169,182.74	57,979	53,878	115,305	19.98	5,771
2017	1,130,325.44	356,618	331,394	798,931	20.43	39,106
2018	184,439.49	53,082	49,327	135,112	20.82	6,490
2019	1,152,348.60	298,228	277,134	875,215	21.24	41,206
2020	427,319.27	97,899	90,975	336,344	21.59	15,579
2021	3,861,947.27	761,576	707,709	3,154,238	22.05	143,049
2022	3,893,652.87	639,727	594,478	3,299,175	22.47	146,826
2023	1,027,630.82	133,798	124,334	903,297	22.83	39,566
2024	5,233,660.90	493,011	458,140	4,775,521	23.23	205,576
2025	40,208.19	2,280	2,119	38,089	23.58	1,615
2026	1,349,217.09	50,191	46,641	1,302,576	23.71	54,938
	48,593,534.02	20,292,066	18,863,126	29,730,408		1,594,396

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 18.60 3.28

SURVIVOR CURVE: IOWA 20-L0
NET SALVAGE PERCENT: 0

1898	63.61	64	64
1918	8.14	8	8
1921	18.75	19	19
1923	7.74	8	8
1924	39.83	40	40
1925	40.20	40	40
1926	548.39	548	548
1927	94.66	95	95
1928	56.53	57	57
1929	186.94	187	187
1930	22.22	22	22
1931	65.92	66	66
1932	44.66	45	45
1933	8.88	9	9
1934	711.07	711	711
1935	11.22	11	11
1936	491.70	492	492
1937	149.10	149	149
1938	145.22	145	145
1939	222.67	223	223
1940	570.71	571	571
1941	364.91	365	365
1942	1,037.33	1,037	1,037
1943	281.48	281	281
1944	284.96	285	285
1945	362.50	361	362
1946	721.26	699	721
1947	425.77	405	426
1948	692.51	653	693
1949	1,866.57	1,750	1,867
1950	333.68	311	334
1951	535.31	495	535
1952	3,733.11	3,433	3,733
1953	9,871.18	9,022	9,871
1954	10,636.22	9,652	10,636
1955	2,384.12	2,149	2,384
1956	6,062.60	5,429	6,063
1957	4,931.41	4,386	4,931
1958	6,368.02	5,623	6,368
1959	2,763.99	2,424	2,764
1960	3,811.14	3,318	3,811
1961	5,496.96	4,749	5,497
1962	4,593.46	3,939	4,593
1963	3,695.85	3,143	3,696
1964	5,112.47	4,315	5,112
1965	4,172.60	3,492	4,173
1966	4,429.24	3,678	4,429
1967	5,041.72	4,152	5,042
1968	8,018.08	6,543	8,018
1969	12,599.30	10,193	12,599
1970	4,757.93	3,813	4,758
1971	14,781.58	11,744	14,782
1972	7,086.19	5,577	7,086
1973	12,891.12	10,042	12,891

SURVIVOR CURVE: IOWA 20-L0
NET SALVAGE PERCENT: 0

1974	23,249.28	17,937	23,249			
1975	63,265.03	48,303	62,988	277	4.69	59
1976	40,025.92	30,240	39,433	593	4.90	121
1977	54,556.28	40,781	53,179	1,377	5.04	273
1978	96,159.08	71,110	92,728	3,431	5.21	659
1979	95,786.49	70,020	91,307	4,479	5.38	833
1980	30,965.88	22,373	29,175	1,791	5.54	323
1981	71,957.50	51,342	66,951	5,006	5.73	874
1982	70,204.17	49,494	64,541	5,663	5.90	960
1983	64,598.36	57,215	64,598			
1984	30,300.67	26,734	30,301			
1985	61,774.03	53,984	61,774			
1986	102,473.24	89,049	102,473			
1987	35,757.55	30,866	35,758			
1988	115,388.17	98,853	115,388			
1989	65,168.85	55,596	65,169			
1990	96,699.66	81,702	96,700			
1991	158,078.16	132,691	158,078			
1992	29,369.99	24,462	29,370			
1993	19,397.41	16,011	19,397			
1994	106,034.49	86,620	106,034			
1995	11,887.45	9,598	11,887			
1996	7,152.21	5,722	7,152			
1997	13,302.66	10,526	13,303			
1998	8,033.85	6,278	8,034			
1999	91.53	71	92			
2000	1,543.73	1,174	1,544			
2002	8,686.20	6,426	8,686			
2003	6,820.00	4,967	6,820			
2004	8,160.61	5,836	8,161			
2005	9,286.47	6,524	9,129	157	9.24	17
2006	6,909.25	4,754	6,652	257	9.18	28
2007	42.12	28	39	3		
2008	11,304.04	7,432	10,399	905	9.63	94
2009	1,030,358.71	660,357	923,996	106,363	9.76	10,898
2010	91,327.23	56,970	79,715	11,612	9.90	1,173
2011	188,711.11	114,340	159,989	28,722	10.03	2,864
2013	28,493.04	16,133	22,574	5,919	10.28	576
2017	17,696.68	8,282	11,588	6,109	10.70	571
2020	20,434.32	7,618	10,659	9,775	10.80	905
2021	227,178.19	75,923	106,234	120,944	10.79	11,209
2022	203,826.08	59,415	83,136	120,690	10.73	11,248
2023	3,651.34	888	1,243	2,408	10.61	227
2026	146,250.36	12,592	17,619	128,631	9.73	13,220
	3,636,010.12	2,368,205	3,070,895	565,115		57,132

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.90 1.57

SURVIVOR CURVE: IOWA 23-L1
NET SALVAGE PERCENT: 0

2004	2,660.08	1,890	(2,884)	5,544	9.13	607
2005	4,274.30	2,975	(4,540)	8,814	9.35	943
2006	2,312.49	1,577	(2,407)	4,719	9.51	496
2008	1,577.33	1,025	(1,564)	3,141	9.91	317
	10,824.20	7,467	(11,395)	22,219		2,363

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.40 21.83

SURVIVOR CURVE: IOWA 55-L4
NET SALVAGE PERCENT: 0

1967	764.79	623	547	218	10.38	21
1969	4,194.89	3,396	2,980	1,215	10.47	116
1970	49.41	40	35	14	14.00	1
1976	93.45	73	64	29	14.50	2
1977	2,088.06	1,625	1,426	662	12.26	54
1979	9,290.53	7,096	6,227	3,064	12.98	236
1989	342.71	235	206	137	17.13	8
	16,823.84	13,088	11,485	5,339		438

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 12.20 2.60

SURVIVOR CURVE: IOWA 70-R3
NET SALVAGE PERCENT: 0

1916	922.66	898	923			
1925	257.87	243	258			
1926	459.25	431	459			
1929	64.04	59	64			
1940	198.63	176	199			
1941	73.96	65	74			
1942	442.68	388	443			
1943	166.39	145	166			
1945	66.96	58	67			
1946	558.07	479	558			
1947	1,450.95	1,238	1,451			
1948	1,558.71	1,322	1,559			
1949	1,239.91	1,045	1,240			
1953	162.40	133	162			
1954	2,117.36	1,723	2,117			
1955	437.08	353	437			
1961	890.72	682	864	27	13.50	2
1962	39.11	30	38	1		
1965	87.33	64	81	6		
1966	1,016.02	737	933	83	20.75	4
1967	169.49	121	153	16	16.00	1
1968	1,932.65	1,368	1,732	201	20.10	10
1969	1,120.00	783	991	129	21.50	6
1970	644.80	445	563	82	20.50	4
1972	392.00	263	333	59	19.67	3
1973	1,159.09	767	971	188	23.50	8
1974	448.00	292	370	78	26.00	3
1977	280.00	174	220	60	30.00	2
1979	60.66	36	46	15	15.00	1
1980	112.00	66	84	28	28.00	1
1983	1,456.00	891	1,128	328	27.33	12
1985	1,400.00	823	1,042	358	29.83	12
1986	409.02	236	299	110	27.50	4
1987	441.00	249	315	126	31.50	4
1993	875.00	430	544	331	33.10	10
2000	2,875.00	1,147	1,452	1,423	39.53	36
2004	17,233.24	5,911	7,485	9,748	42.94	227
2006	19,252.16	6,093	7,716	11,536	44.03	262
2024	54,760.21	2,185	2,767	51,993	58.16	894
2025	21,297.60	505	640	20,658	58.52	353
2026	14,499.62	223	282	14,218	58.51	243
	153,027.64	33,277	41,226	111,802		2,102

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 53.20 1.37

SURVIVOR CURVE: IOWA 60-R2
NET SALVAGE PERCENT: 0

1922	2,829.48	2,744	2,654	175	1.82	96
1926	27,541.11	26,205	25,347	2,194	2.91	754
1937	16,189.19	14,551	14,075	2,114	6.07	348
1938	95.25	85	82	13	6.50	2
1940	400.17	354	342	58	7.25	8
1945	426.05	366	354	72	8.00	9
1946	58.82	50	48	11	11.00	1
1947	1,202.28	1,021	988	214	8.92	24
1949	1,543.88	1,294	1,252	292	9.73	30
1950	5,236.77	4,361	4,218	1,019	10.09	101
1951	3,014.62	2,493	2,411	604	10.41	58
1952	740.00	608	588	152	10.86	14
1953	2,900.60	2,365	2,288	613	11.15	55
1955	19,384.40	15,575	15,065	4,319	11.80	366
1956	3,782.70	3,015	2,916	867	12.21	71
1957	6,109.86	4,832	4,674	1,436	12.60	114
1958	1,371.20	1,075	1,040	331	12.73	26
1959	1,334.85	1,038	1,004	331	13.24	25
1963	3,163.12	2,371	2,293	870	15.00	58
1964	41.65	31	30	12	12.00	1
1965	1,891.52	1,389	1,344	548	16.12	34
1966	509.61	370	358	152	16.89	9
1967	126.88	91	88	39	19.50	2
1968	1,796.46	1,277	1,235	561	17.53	32
1969	2,701.00	1,897	1,835	866	18.04	48
1970	537.68	373	361	177	17.70	10
1971	551.41	378	366	185	18.50	10
1972	13,370.77	9,045	8,749	4,622	19.42	238
1973	3,559.13	2,376	2,298	1,261	20.02	63
1974	28,324.75	18,652	18,041	10,284	20.49	502
1975	218.60	142	137	82	20.50	4
1976	85.52	55	53	33	16.50	2
1977	1,110.04	700	677	433	21.65	20
1981	1,050.11	620	600	450	25.00	18
1982	80.70	47	45	36	36.00	1
1986	7,180.22	4,498	4,351	2,829	24.18	117
1987	3,015.84	1,854	1,793	1,223	24.46	50
1989	23,593.89	13,949	13,492	10,102	25.90	390
1992	43,447.38	24,226	23,433	20,014	27.30	733
1993	41,380.63	22,540	21,802	19,579	27.93	701
1994	10,078.67	5,358	5,183	4,896	28.63	171
1995	2,597.85	1,347	1,303	1,295	29.43	44
1996	79,849.12	40,316	38,996	40,853	29.82	1,370
1997	26,972.82	13,330	12,893	14,080	30.09	468
1998	586,849.01	281,805	272,577	314,272	30.76	10,217
1999	21,627.73	10,081	9,751	11,877	31.42	378
2000	177,972.01	80,390	77,758	100,214	32.06	3,126
2001	15,235.14	6,699	6,480	8,755	32.43	270
2002	15,519.54	6,593	6,377	9,143	33.01	277
2003	330,001.37	135,235	130,806	199,195	33.73	5,906
2004	149,518.06	59,329	57,386	92,132	34.09	2,703
2006	158,602.08	58,286	56,377	102,225	35.14	2,909
2007	111,088.83	39,037	37,759	73,330	35.82	2,047
2008	3,484.86	1,168	1,130	2,355	36.80	64

SURVIVOR CURVE: IOWA 60-R2
NET SALVAGE PERCENT: 0

2010	6,944.58	2,121	2,052	4,893	37.35	131
2014	82,977.62	19,881	19,230	63,748	39.40	1,618
2015	29,547.03	6,545	6,331	23,216	40.10	579
2017	52,907.60	9,915	9,590	43,318	40.83	1,061
2020	250,885.11	33,318	32,226	218,659	41.89	5,220
2025	15,997.02	528	511	15,486	41.52	373
	2,400,554.19	1,000,195	967,443	1,433,111		44,077

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 32.50 1.84

SURVIVOR CURVE: IOWA 60-R1.5
NET SALVAGE PERCENT: 0

1916	2,374.31	2,241	(2,019)	4,393	3.38	1,300
1917	4.67	4	(4)	9	4.50	2
1924	6,969.84	6,347	(5,717)	12,687	5.36	2,367
1925	4,809.55	4,361	(3,928)	8,738	5.59	1,563
1927	183.93	165	(149)	333	6.05	55
1928	2,769.44	2,479	(2,233)	5,002	6.29	795
1929	3,429.55	3,056	(2,753)	6,183	6.54	945
1939	98.43	83	(75)	173	9.11	19
1942	7,222.78	6,002	(5,406)	12,629	10.14	1,245
1943	5,902.25	4,874	(4,390)	10,292	10.45	985
1945	300.04	245	(221)	521	11.09	47
1946	8,821.26	7,148	(6,438)	15,259	11.38	1,341
1947	29,424.90	23,687	(21,336)	50,761	11.70	4,339
1948	28,483.04	22,772	(20,512)	48,995	12.03	4,073
1949	2,533.30	2,011	(1,811)	4,344	12.38	351
1950	9,491.04	7,482	(6,739)	16,230	12.70	1,278
1951	0.92	1	1			
1952	11.31	9	(8)	19	19.00	1
1953	21.90	17	(15)	37	12.33	3
1961	113.59	82	(74)	188	17.09	11
1962	448.63	319	(287)	736	17.12	43
1966	2.62	2	(2)	5		
1967	258.82	174	(157)	416	19.81	21
1968	455.76	304	(274)	730	20.28	36
1970	266.93	173	(156)	423	21.15	20
1972	25,527.03	16,146	(14,543)	40,070	22.05	1,817
1973	6,747.54	4,209	(3,791)	10,539	22.57	467
1974	7,738.18	4,759	(4,287)	12,025	23.08	521
1975	12,558.99	7,611	(6,856)	19,415	23.65	821
1979	502.44	286	(258)	760	26.21	29
1981	10,542.68	5,790	(5,215)	15,758	27.03	583
1983	163.72	104	(94)	258	25.80	10
1984	63,323.46	39,754	(35,808)	99,131	25.15	3,942
1989	75,814.75	43,684	(39,348)	115,163	27.52	4,185
1990	25,488.76	14,480	(13,043)	38,532	27.68	1,392
1991	48,779.23	27,121	(24,429)	73,208	28.28	2,589
1992	29,979.57	16,303	(14,685)	44,665	28.87	1,547
1993	367.83	195	(176)	544	30.22	18
1995	527.64	269	(242)	770	30.80	25
1997	255,976.99	124,251	(111,918)	367,895	31.19	11,795
1998	286,978.15	135,368	(121,932)	408,910	31.83	12,847
1999	3,133.30	1,443	(1,300)	4,433	32.12	138
2000	99,807.25	44,554	(40,131)	139,938	32.76	4,272
2002	2,913.90	1,224	(1,103)	4,017	33.76	119
2004	17,174.97	6,776	(6,103)	23,278	34.38	677
2005	51,994.83	19,711	(17,754)	69,749	35.09	1,988
2006	76,757.15	28,055	(25,270)	102,027	35.45	2,878
2017	16,960.72	3,290	(2,963)	19,924	39.14	509
2021	9,444.55	1,141	(1,028)	10,473	39.37	266
2026	2,161,658.96	55,338	(49,846)	2,211,505	34.92	63,331
	3,405,261.40	695,900	(626,826)	4,032,087		137,606

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 29.30 4.04

SURVIVOR CURVE: IOWA 55-R1
NET SALVAGE PERCENT: 0

1916	566.36	566	566			
1917	624.72	620	156	469	1.00	469
1924	2,461.45	2,340	590	1,871	2.71	690
1925	2,324.67	2,196	553	1,772	3.04	583
1943	6,985.17	5,890	1,485	5,500	8.62	638
1945	2,481.66	2,062	520	1,962	9.30	211
1946	5,486.15	4,523	1,140	4,346	9.66	450
1947	8,680.66	7,101	1,790	6,891	10.02	688
1948	7,125.33	5,782	1,457	5,668	10.36	547
1949	34.85	28	7	28	9.33	3
1950	2,229.95	1,780	449	1,781	11.13	160
1952	36.71	29	7	30	10.00	3
1953	243.64	190	48	196	12.25	16
1961	252.53	182	46	207	15.92	13
1966	128.22	87	22	106	17.67	6
1967	758.92	509	128	631	18.03	35
1968	6.72	4	1	6		
1971	5,134.20	3,267	823	4,311	19.96	216
1972	19,462.08	12,215	3,079	16,383	20.48	800
1973	25,847.38	15,988	4,030	21,817	20.98	1,040
1974	8,553.99	5,213	1,314	7,240	21.48	337
1975	10,296.48	6,182	1,558	8,738	21.95	398
1977	13,694.18	7,965	2,007	11,687	23.01	508
1979	1,930.76	1,086	274	1,657	24.01	69
1981	15,663.96	8,504	2,143	13,521	25.13	538
1982	29,549.10	15,747	3,969	25,580	25.68	996
1984	25,700.28	16,569	4,176	21,524	23.37	921
1986	15,392.21	9,643	2,430	12,962	24.09	538
1989	22,869.02	13,605	3,429	19,440	25.48	763
1991	10,094.00	5,792	1,460	8,634	26.32	328
1992	6,549.44	3,697	932	5,617	26.62	211
1993	453.47	252	64	389	27.79	14
1994	268.55	145	37	232	29.00	8
1995	791.46	420	106	685	27.40	25
1997	12,548.33	6,349	1,600	10,948	28.73	381
1998	20,811.77	10,289	2,593	18,219	29.06	627
1999	263,348.83	127,066	32,025	231,324	29.40	7,868
2000	58,699.19	27,600	6,956	51,743	29.75	1,739
2008	18,023.00	6,506	1,640	16,383	32.57	503
2014	28,226.34	7,536	1,899	26,327	34.10	772
2015	1,682.87	421	106	1,577	34.28	46
2019	5,343.33	947	239	5,104	34.49	148
2026	1,149,594.86	35,982	9,068	1,140,527	28.41	40,145
	1,810,956.79	382,875	96,922	1,714,035		64,451

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 26.60 3.56

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1904	35.14	35	35	
1909	75.00	75	75	
1910	211.00	211	211	
1915	26.50	26	26	
1916	58.95	59	59	
1921	17.70	18	18	
1938	58.48	55	58	
1939	330.37	312	330	
1940	19.39	18	19	
1941	201.71	189	202	
1942	29.19	27	29	
1943	27.92	26	28	
1944	102.32	94	102	
1945	7,165.82	6,575	7,166	
1946	114.97	105	115	
1947	1,278.03	1,162	1,278	
1948	4,414.39	3,993	4,414	
1949	330.99	298	331	
1950	69,383.58	62,133	69,384	
1951	60,361.90	53,782	60,362	
1952	1,628.76	1,444	1,629	
1953	40.65	36	41	
1955	52.58	46	53	
1958	453.12	387	453	
1969	320.54	249	321	
1970	249.81	192	250	
1974	465.47	340	465	
1975	12,797.48	9,233	12,797	
1979	1,684.94	1,145	1,686	(1)
	161,936.70	142,265	161,937	

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 65-R5
NET SALVAGE PERCENT: 0

1939	100.32	100	100			
1941	98.88	98	99			
1944	1,462.95	1,427	1,463			
1947	29.25	28	29			
1948	75.00	72	75			
1949	3,618.25	3,466	3,618			
1950	371.91	355	372			
1960	11.75	11	12			
1964	443.26	391	443			
1982	40,000.00	27,034	32,971	7,029	21.04	334
1992	2,452.89	1,325	1,616	837	28.86	29
1993	12,069.59	6,332	7,723	4,347	30.19	144
1998	306,874.45	136,897	166,959	139,915	35.28	3,966
1999	45,797.43	19,711	24,040	21,757	36.26	600
	413,405.93	197,247	239,520	173,886		5,073

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 34.30 1.23

SURVIVOR CURVE.. 40-SQUARE
NET SALVAGE PERCENT: 0

1969	7,545.31	7,545	7,545			
1970	116.00	116	116			
1971	9,081.22	9,081	9,081			
1972	5,737.14	5,737	5,737			
1975	23,910.35	23,910	23,910			
1994	10,285.35	8,335	8,368	1,917	7.58	253
1997	15,806.90	11,625	11,671	4,136	10.58	391
2011	360,656.23	139,004	139,552	221,104	24.58	8,995
	433,138.50	205,353	205,980	227,158		9,639

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 23.60 2.23

SURVIVOR CURVE.. 37-SQUARE
NET SALVAGE PERCENT: 0

1971	205,250.77	205,251	205,251
	205,250.77	205,251	205,251

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 50-R2
NET SALVAGE PERCENT: 0

1912	8.69	9	9			
1916	1,786.32	1,786	1,786			
1917	363.37	363	363			
1918	25.48	25	25			
1922	42.17	42	42			
1924	5,487.93	5,488	5,488			
1925	1,233.42	1,233	1,233			
1926	63.48	63	63			
1933	19.78	20	20			
1934	57.37	57	57			
1937	19.93	20	20			
1938	3.19	3	3			
1939	84.73	82	85			
1940	531.12	513	531			
1941	1,072.68	1,031	1,073			
1943	570.69	542	571			
1944	332.44	314	332			
1945	146.21	137	146			
1946	12,963.19	12,095	12,963			
1947	3,928.21	3,642	3,928			
1948	9,725.46	8,961	9,725			
1951	265.03	240	265			
1952	12,170.84	10,932	12,171			
1955	2,287.37	2,014	2,287			
1956	44.62	39	45			
1957	445.55	387	446			
1961	568.38	480	568			
1963	70.50	59	70			
1965	42.48	35	42			
1967	4,390.54	3,525	4,391			
1968	94,202.26	74,910	94,202			
1969	10,938.86	8,615	10,939			
1970	25,791.64	20,107	25,792			
1973	40,293.71	30,398	40,294			
1974	8,392.05	6,257	8,392			
1975	1,320.10	972	1,320			
1976	580.66	422	581			
1977	4,755.64	3,414	4,756			
1978	92.88	66	93			
1981	5,347.65	3,621	5,084	264	16.50	16
1983	55,595.37	41,035	55,595			
1984	8,052.76	5,875	8,053			
1986	388.90	275	387	2		
1988	37,073.02	25,351	35,637	1,436	17.73	81
1990	7,473.03	4,925	6,923	550	18.97	29
1991	3,151.27	2,042	2,871	280	18.67	15
1993	14,359.94	8,926	12,548	1,812	20.36	89
1996	5,529.70	3,213	4,517	1,013	22.02	46
1998	350.78	193	271	80	26.67	3
1999	35,898.66	19,292	27,120	8,779	23.60	372
2000	69,766.68	36,488	51,293	18,474	24.09	767
2001	18,927.15	9,621	13,525	5,402	24.55	220
2002	1,771.09	869	1,222	549	24.95	22
2003	4,001.15	1,902	2,674	1,327	26.02	51

SURVIVOR CURVE: IOWA 50-R2
NET SALVAGE PERCENT: 0

2004	380,060.87	174,638	245,498	134,563	26.37	5,103
2005	28,863.63	12,795	17,987	10,877	26.92	404
2006	1,601,556.59	683,384	960,669	640,888	27.43	23,364
2007	203,390.61	83,329	117,140	86,251	27.98	3,083
2008	443,981.80	174,174	244,845	199,137	28.53	6,980
2009	7,446.86	2,789	3,921	3,526	29.14	121
2010	36,199.97	12,894	18,126	18,074	29.68	609
2011	87,605.79	29,576	41,576	46,030	30.24	1,522
2012	35,014.56	11,156	15,683	19,332	30.83	627
2013	191,676.67	57,350	80,620	111,057	31.43	3,533
2015	36,772.48	9,572	13,456	23,316	32.43	719
2020	5,277.70	823	1,157	4,121	34.63	119
2023	104,330.04	9,202	12,935	91,395	35.34	2,586
2024	8,405.08	538	756	7,649	35.25	217
2025	4,990.07	196	276	4,714	34.66	136
	3,688,378.84	1,625,342	2,247,482	1,440,897		50,834

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.30 1.38

SURVIVOR CURVE: IOWA 47-R1.5
NET SALVAGE PERCENT: 0

1905	35.51	36	36			
1906	38.47	38	38			
1922	184.00	184	184			
1926	931.15	931	931			
1934	359.20	354	262	97	1.00	97
1935	117.48	115	85	32	1.00	32
1937	20,653.37	19,915	14,767	5,886	1.68	3,504
1938	133.76	128	95	39	2.05	19
1940	427.76	403	299	129	2.69	48
1941	115.26	108	80	35	2.92	12
1942	525.06	489	363	162	3.24	50
1947	25.42	23	17	8	4.00	2
1948	142,454.26	128,481	95,271	47,183	4.61	10,235
1949	23,615.04	21,178	15,704	7,911	4.85	1,631
1950	2,188.36	1,951	1,447	741	5.11	145
1951	582.21	516	383	199	5.38	37
1952	11,233.54	9,893	7,336	3,898	5.61	695
1953	76,560.73	66,999	49,681	26,880	5.87	4,579
1954	17,160.41	14,919	11,063	6,097	6.14	993
1955	390.35	337	250	140	6.36	22
1956	38,188.86	32,753	24,287	13,902	6.69	2,078
1957	133.57	114	85	49	7.00	7
1958	4,340.31	3,669	2,721	1,619	7.26	223
1959	23,916.89	20,070	14,882	9,035	7.56	1,195
1960	1,787.73	1,489	1,104	684	7.86	87
1961	844.93	698	518	327	8.18	40
1962	727.15	596	442	285	8.38	34
1963	99.86	81	60	40	8.00	5
1964	186.90	151	112	75	9.38	8
1965	124.99	100	74	51	10.20	5
1966	1,242.85	985	730	513	9.68	53
1967	2,346.40	1,842	1,366	980	10.10	97
1969	14,855.21	11,442	8,484	6,371	10.80	590
1970	37,114.34	28,294	20,980	16,134	11.17	1,444
1971	568.77	429	318	251	11.41	22
1972	5,617.09	4,191	3,108	2,509	11.95	210
1973	3,152.11	2,326	1,725	1,427	12.30	116
1974	72,101.87	52,573	38,984	33,118	12.73	2,602
1975	29,396.94	21,178	15,704	13,693	13.14	1,042
1976	21,474.02	15,274	11,326	10,148	13.57	748
1977	32,203.60	22,604	16,761	15,443	14.01	1,102
1978	5,154.45	3,570	2,647	2,507	14.49	173
1979	893.24	610	452	441	14.70	30
1981	5,711.11	3,783	2,805	2,906	15.88	183
1982	67,529.90	44,023	32,644	34,886	16.36	2,132
1983	43,241.78	32,103	23,805	19,437	15.06	1,291
1984	4,945.17	3,629	2,691	2,254	15.44	146
1985	91,852.39	66,575	49,366	42,486	15.73	2,701
1986	213,054.02	151,545	112,373	100,681	16.40	6,139
1987	54,999.11	38,587	28,613	26,386	16.76	1,574
1988	27,344.57	18,909	14,021	13,324	17.15	777
1989	58,836.31	40,068	29,711	29,125	17.53	1,661
1990	514,230.58	344,586	255,516	258,715	17.93	14,429
1991	29,322.01	19,212	14,246	15,076	18.64	809

SURVIVOR CURVE: IOWA 47-R1.5
NET SALVAGE PERCENT: 0

1992	81,424.45	52,405	38,859	42,565	19.06	2,233
1993	623,340.91	393,702	291,937	331,404	19.49	17,004
1994	280,758.14	173,845	128,909	151,849	19.94	7,615
1995	76,057.19	46,113	34,194	41,863	20.40	2,052
1996	59,595.98	35,346	26,210	33,386	20.87	1,600
1997	75,555.78	43,785	32,467	43,089	21.35	2,018
1998	167,730.45	94,852	70,334	97,396	21.83	4,462
1999	309,778.49	170,719	126,591	183,187	22.33	8,204
2000	550,816.12	295,403	219,046	331,770	22.84	14,526
2001	15,803.03	8,233	6,105	9,698	23.37	415
2002	760,843.32	384,530	285,136	475,707	23.89	19,912
2003	545,304.05	268,181	198,861	346,443	24.20	14,316
2004	210,839.45	100,191	74,293	136,546	24.75	5,517
2005	57,490.72	26,348	19,537	37,954	25.30	1,500
2006	298,774.12	132,357	98,145	200,629	25.67	7,816
2007	6,654.74	2,830	2,098	4,557	26.19	174
2008	9,954.89	4,070	3,018	6,937	26.68	260
2009	8,676.18	3,385	2,510	6,166	27.28	226
2010	459,297.45	171,180	126,933	332,364	27.63	12,029
2011	102,672.62	36,408	26,997	75,676	28.06	2,697
2012	2,268.76	762	565	1,704	28.40	60
2013	157,948.74	50,228	37,245	120,704	28.78	4,194
2014	3,010,608.95	897,161	665,261	2,345,348	29.25	80,183
2015	62,037.24	17,284	12,816	49,221	29.56	1,665
2016	13,517.55	3,492	2,589	10,929	29.94	365
2017	53,826.79	12,773	9,471	44,356	30.28	1,465
2018	21,340.79	4,616	3,423	17,918	30.47	588
2019	3,719,142.51	722,629	535,843	3,183,300	30.75	103,522
2020	465,076.90	79,993	59,316	405,761	30.90	13,131
2021	41,141.43	6,130	4,546	36,595	30.96	1,182
2023	170,822.80	17,151	12,718	158,105	30.60	5,167
2024	196,101.66	14,551	10,790	185,312	30.16	6,144
2025	286,588.54	13,355	9,903	276,686	28.98	9,547
2026	2,166,890.80	68,907	51,095	2,115,796	27.90	75,835
	16,773,951.91	5,607,972	4,158,714	12,615,238		493,478

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 25.60 2.94

SURVIVOR CURVE: IOWA 60-R2.5
NET SALVAGE PERCENT: 0

1952	1,390.93	1,179	1,391			
1953	414.35	349	414			
1957	248.92	205	249			
1958	11,064.44	9,040	11,064			
1960	8,803.38	7,088	8,803			
1961	18,326.93	14,643	18,327			
1962	903.99	716	904			
1967	456.13	345	456			
1968	5,541.38	4,149	5,541			
1970	585.35	429	585			
1971	6,694.29	4,843	6,609	85	17.00	5
1972	391.85	280	382	10	10.00	1
1974	1,724.13	1,200	1,638	86	17.20	5
1975	69,835.86	47,954	65,441	4,395	18.78	234
1976	284.49	193	263	21	21.00	1
1980	9,124.10	5,801	7,916	1,208	21.96	55
1984	2,311.98	1,530	2,088	224	22.40	10
1985	11,061.30	7,192	9,815	1,246	22.25	56
1986	69,184.65	44,181	60,292	8,893	22.86	389
1987	75,424.31	47,268	64,505	10,919	23.48	465
1988	3,268.51	2,009	2,742	527	23.95	22
1990	8,291.27	4,892	6,676	1,615	25.23	64
1992	6,603.52	3,727	5,086	1,518	26.63	57
1994	9,415.58	5,067	6,915	2,501	27.79	90
1997	26,201.60	13,025	17,775	8,427	29.78	283
1998	23,703.23	11,451	15,627	8,076	30.36	266
1999	29,234.72	13,705	18,703	10,532	31.07	339
2000	130,571.52	59,332	80,967	49,605	31.72	1,564
2004	8,463.23	3,358	4,583	3,880	34.04	114
2006	5,091.68	1,861	2,540	2,552	35.44	72
2007	36,198.60	12,651	17,264	18,935	36.14	524
2008	19,816.23	6,605	9,013	10,803	36.87	293
2011	235,934.15	66,935	91,343	144,591	38.93	3,714
2015	9,580.07	2,078	2,836	6,744	41.12	164
2021	43,248.17	4,662	6,362	36,886	44.82	823
2023	54,949.29	3,846	5,248	49,701	45.39	1,095
2025	639,002.15	19,362	26,422	612,580	45.31	13,520
2026	1,111,400.74	22,228	30,334	1,081,067	44.95	24,050
	2,694,747.02	455,379	617,119	2,077,628		48,275

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 43.00 1.79

SURVIVOR CURVE: IOWA 30-R2.5
 NET SALVAGE PERCENT: 0

1953	597.38	597	597	
1957	139.38	139	139	
1972	6,119.04	6,052	6,119	
1973	1,697.11	1,664	1,697	
1979	1,203.92	1,117	1,204	
1981	2,893.23	2,642	2,893	
1990	17,052.58	15,214	17,053	
1997	481.23	391	482	(1)
	30,183.87	27,816	30,184	

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 80-R4
NET SALVAGE PERCENT: 0

1874	5.22	5	5
1875	3,511.90	3,512	3,512
1876	399.33	399	399
1877	121.20	121	121
1886	2,347.39	2,347	2,347
1887	351.96	352	352
1888	480.50	480	480
1889	2,276.99	2,277	2,277
1890	836.20	836	836
1891	1,881.69	1,882	1,882
1892	2,891.69	2,892	2,892
1893	668.86	669	669
1894	661.91	662	662
1895	535.27	535	535
1896	10,169.79	10,170	10,170
1897	3,210.24	3,210	3,210
1898	2,342.79	2,343	2,343
1899	2,007.66	2,008	2,008
1900	8,336.26	8,336	8,336
1901	10,739.29	10,739	10,739
1902	14,932.27	14,932	14,932
1903	16,603.95	16,604	16,604
1904	10,314.78	10,315	10,315
1905	13,938.16	13,907	13,938
1906	12,960.19	12,900	12,960
1907	1,885.76	1,872	1,886
1908	4,965.96	4,916	4,966
1909	13,590.56	13,427	13,591
1910	16,291.54	16,057	16,292
1911	11,035.87	10,847	11,036
1912	14,820.96	14,526	14,821
1913	53,756.04	52,553	53,756
1914	38,239.94	37,284	38,240
1915	16,991.79	16,518	16,992
1916	2,952.20	2,861	2,952
1917	4,126.20	3,988	4,126
1918	2,220.14	2,139	2,220
1919	1,209.99	1,162	1,210
1920	411.47	394	411
1921	3,767.72	3,596	3,768
1922	8,718.64	8,294	8,719
1923	11,298.03	10,711	11,298
1924	17,164.02	16,216	17,164
1925	9,370.83	8,823	9,371
1926	10,383.19	9,742	10,383
1927	3,061.15	2,862	3,061
1928	551.84	514	552
1929	2,854.05	2,649	2,854
1930	5,594.99	5,174	5,595
1931	1,764.72	1,626	1,765
1932	322.40	296	322
1933	487.51	446	488
1934	111.11	101	111
1935	4,193.96	3,803	4,194

SURVIVOR CURVE: IOWA 80-R4
NET SALVAGE PERCENT: 0

1936	2,694.95	2,434	2,695			
1937	3,195.38	2,873	3,195			
1938	1,543.42	1,381	1,543			
1939	9,142.81	8,144	9,143			
1940	6,368.41	5,645	6,368			
1941	16,191.28	14,277	16,191			
1942	12,089.15	10,602	12,089			
1943	7,232.95	6,308	7,233			
1944	9,080.15	7,872	9,080			
1945	1,644.37	1,417	1,644			
1946	3,526.19	3,018	3,526			
1947	6,519.10	5,543	6,519			
1948	30,372.15	25,638	30,255	117	13.00	9
1949	31,026.03	25,992	30,673	353	13.07	27
1950	12,676.12	10,535	12,432	244	13.56	18
1951	21,259.43	17,523	20,678	581	14.17	41
1952	19,327.09	15,795	18,639	688	14.64	47
1953	35,687.10	28,902	34,107	1,580	15.19	104
1954	22,934.22	18,399	21,712	1,222	15.87	77
1955	32,705.79	25,985	30,664	2,042	16.47	124
1956	20,253.62	15,929	18,797	1,457	17.14	85
1957	20,779.50	16,174	19,087	1,692	17.81	95
1958	77,494.10	59,680	70,427	7,067	18.40	384
1959	113,486.56	86,448	102,015	11,472	19.06	602
1960	31,395.34	23,649	27,908	3,487	19.70	177
1961	58,106.99	43,268	51,060	7,047	20.43	345
1962	39,442.80	29,025	34,252	5,191	21.10	246
1963	71,371.72	51,887	61,231	10,141	21.86	464
1964	72,638.04	52,163	61,556	11,082	22.57	491
1965	93,204.18	66,082	77,982	15,222	23.28	654
1966	46,284.65	32,394	38,227	8,058	23.98	336
1967	10,964.26	7,572	8,936	2,028	24.73	82
1968	39,479.14	26,895	31,738	7,741	25.46	304
1969	34,106.74	22,907	27,032	7,075	26.30	269
1970	38,596.33	25,551	30,152	8,444	27.06	312
1971	51,648.23	33,688	39,754	11,894	27.79	428
1972	22,060.85	14,171	16,723	5,338	28.55	187
1973	7,138.99	4,515	5,328	1,811	29.21	62
1974	92,191.17	57,366	67,696	24,495	30.20	811
1975	2,242.00	1,372	1,619	623	31.15	20
1976	8,345.99	5,022	5,926	2,420	31.84	76
1977	3,873.43	2,290	2,702	1,171	32.53	36
1978	84,242.26	48,924	57,734	26,508	33.55	790
1979	24,464.37	13,948	16,460	8,004	34.35	233
1980	58,135.91	32,513	38,368	19,768	35.24	561
1981	13,989.25	7,671	9,052	4,937	36.04	137
1982	37,555.24	20,186	23,821	13,734	37.02	371
1983	34,607.87	19,232	22,695	11,913	34.73	343
1984	72,247.97	39,223	46,286	25,962	35.71	727
1985	20,647.40	10,945	12,916	7,731	36.64	211
1986	66,854.26	34,858	41,135	25,719	37.11	693
1987	207,799.90	105,666	124,694	83,106	38.10	2,181
1988	144,488.06	71,608	84,503	59,985	39.10	1,534
1989	137,876.65	66,553	78,538	59,339	40.09	1,480
1990	244,291.28	115,647	136,472	107,819	40.50	2,662

SURVIVOR CURVE: IOWA 80-R4
NET SALVAGE PERCENT: 0

1991	66,846.87	30,776	36,318	30,529	41.54	735
1992	23,800.79	10,648	12,565	11,236	42.56	264
1993	63,862.62	27,742	32,738	31,125	43.53	715
1994	44,318.53	18,676	22,039	22,280	44.47	501
1995	74,651.74	30,727	36,260	38,392	44.90	855
1996	39,258.64	15,645	18,462	20,797	45.91	453
1997	65,568.46	25,270	29,821	35,747	46.91	762
1998	15,268.71	5,685	6,709	8,560	47.82	179
1999	37,476.41	13,462	15,886	21,590	48.96	441
2000	50,113.86	17,344	20,467	29,647	49.91	594
2001	502,822.04	167,440	197,592	305,230	50.92	5,994
2002	150,557.33	48,525	57,263	93,294	51.35	1,817
2003	91,370.41	28,243	33,329	58,041	52.34	1,109
2004	52,145.60	15,430	18,209	33,937	53.36	636
2005	145,956.11	41,262	48,692	97,264	54.34	1,790
2006	27,628.07	7,446	8,787	18,841	55.41	340
2007	51,942.05	13,313	15,710	36,232	56.35	643
2008	164,306.52	39,943	47,136	117,171	57.35	2,043
2009	24,419.44	5,614	6,625	17,794	58.34	305
2010	43,311.35	9,386	11,076	32,235	59.36	543
2011	88,326.95	17,975	21,212	67,115	60.36	1,112
2012	13,622.04	2,592	3,059	10,563	61.41	172
2013	15,156.01	2,684	3,167	11,989	62.44	192
2014	36,947.77	6,056	7,147	29,801	63.41	470
2015	36,574.58	5,552	6,552	30,023	63.74	471
2016	34,368.29	4,760	5,617	28,751	64.75	444
2017	85,120.56	10,657	12,576	72,545	65.77	1,103
2018	48,937.81	5,476	6,462	42,476	66.79	636
2022	2,234.93	131	155	2,080	71.72	29
2024	1,509,664.27	48,460	57,187	1,452,477	72.77	19,960
2025	750,406.88	14,108	16,648	733,759	73.77	9,947
2026	431,284.71	5,262	6,210	425,075	74.27	5,723
	7,560,459.56	2,575,425	2,977,552	4,582,908		79,814

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 57.40 1.06

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1920	182.35	182	182			
1954	2,718.88	2,383	2,719			
1955	5,528.42	4,818	5,528			
1964	8,289.98	6,767	8,290			
1978	486,335.94	335,732	436,185	50,151	18.58	2,699
1980	12,052.02	8,057	10,468	1,584	19.80	80
1982	144,492.45	93,318	121,239	23,253	21.26	1,094
1983	5,454.59	3,742	4,862	593	19.77	30
1984	6,913.86	4,663	6,058	856	20.38	42
1991	6,596.96	3,878	5,038	1,559	24.75	63
1995	19,508.20	10,357	13,456	6,052	27.76	218
1996	34,710.81	17,949	23,319	11,392	28.41	401
1997	18,500.00	9,306	12,090	6,410	29.00	221
1999	1,169.44	555	721	448	29.87	15
2001	7,210.91	3,189	4,143	3,068	31.96	96
2006	93,601.90	34,015	44,192	49,410	35.75	1,382
2007	379,284.68	131,839	171,286	207,999	36.45	5,706
2008	596,565.77	197,762	256,934	339,632	37.14	9,145
2009	205,133.93	64,309	83,551	121,583	38.14	3,188
2011	3,201.69	898	1,167	2,035	39.90	51
2022	56,121.60	4,709	6,118	50,004	48.22	1,037
2023	56,660.30	3,700	4,806	51,854	48.92	1,060
2025	13,470.10	370	481	12,989	50.15	259
	2,163,704.78	942,498	1,222,833	940,872		26,787

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 35.10 1.24

SURVIVOR CURVE: IOWA 55-R2.5
NET SALVAGE PERCENT: 0

1915	2,039.02	2,039	2,039			
1921	15.25	15	15			
1926	674.20	669	674			
1933	308.06	295	308			
1936	213.91	202	214			
1938	94.77	89	95			
1942	4,567.33	4,193	4,567			
1946	33.12	30	33			
1947	467.40	420	467			
1948	4,490.90	4,014	4,491			
1949	21,634.60	19,247	21,635			
1950	8,917.38	7,896	8,917			
1951	12,398.99	10,927	12,399			
1952	9,794.83	8,589	9,795			
1953	13,583.85	11,853	13,584			
1954	4,677.51	4,060	4,678			
1955	3,289.22	2,840	3,289			
1956	3,955.53	3,397	3,956			
1957	809.82	691	810			
1958	773.26	656	773			
1959	6,263.37	5,285	6,263			
1960	7,763.15	6,508	7,763			
1961	4,903.21	4,084	4,903			
1962	720.58	596	721			
1963	5,812.66	4,774	5,813			
1964	14,748.06	12,021	14,748			
1965	359.61	291	360			
1966	4,223.66	3,387	4,224			
1967	206.63	164	207			
1968	11,635.65	9,167	11,636			
1969	3,475.25	2,712	3,475			
1970	1,542.20	1,191	1,542			
1971	8,490.84	6,492	8,491			
1973	13,809.31	10,322	13,809			
1974	1,991.11	1,471	1,991			
1975	635.87	464	636			
1976	1,120.08	806	1,120			
1978	32,091.49	22,464	32,091			
1979	11,321.38	7,808	11,321			
1980	0.01					
1981	27,039.82	18,067	27,040			
1983	2,322.66	1,654	2,323			
1984	35,991.84	25,342	35,992			
1985	12,866.74	8,900	12,867			
1986	2,980.58	2,024	2,981			
1987	20,248.43	13,487	20,248			
1988	1,833.40	1,204	1,833			
1989	6,868.66	4,421	6,869			
1990	443.70	280	444			
1991	1,335.51	823	1,336			
1993	86,082.31	50,918	85,128	954	23.27	41
1994	5,801.95	3,348	5,597	205	22.78	9
1995	1,205.33	678	1,134	71	23.67	3
1997	4,740.41	2,538	4,243	497	26.16	19

SURVIVOR CURVE: IOWA 55-R2.5
NET SALVAGE PERCENT: 0

1998	5,820.43	3,027	5,061	759	26.17	29
1999	42,005.79	21,192	35,430	6,576	26.95	244
2000	2,641.28	1,291	2,158	483	28.41	17
2002	7,408.89	3,401	5,686	1,723	28.72	60
2003	115,950.81	51,320	85,800	30,151	29.50	1,022
2004	74,594.44	31,770	53,115	21,479	30.21	711
2005	44,125.47	18,144	30,334	13,791	30.65	450
2006	23,119.09	9,109	15,229	7,890	31.43	251
2007	223.16	84	140	83	27.67	3
2008	369,366.95	132,640	221,755	147,612	32.87	4,491
2010	119,355.96	38,791	64,853	54,503	34.09	1,599
2011	11,451.64	3,513	5,873	5,579	34.87	160
2014	222,953.81	56,474	94,416	128,538	36.60	3,512
2017	149,925.02	29,370	49,103	100,822	38.66	2,608
2022	106,274.09	10,277	17,181	89,093	41.25	2,160
2023	208.26	16	27	181	45.25	4
	1,729,039.50	726,232	1,118,049	610,990		17,393

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 35.10 1.01

SURVIVOR CURVE: IOWA 45-R2
NET SALVAGE PERCENT: 0

1904	97.85	98	98			
1920	3,071.90	3,072	3,072			
1923	403.86	404	404			
1927	72.55	73	73			
1929	261.39	261	261			
1930	294.47	294	294			
1932	95.28	95	95			
1937	237.51	238	238			
1939	19.57	20	20			
1941	2,931.40	2,931	2,931			
1947	529.70	517	530			
1949	416.19	401	416			
1950	3,524.86	3,378	3,525			
1951	1,022.22	973	1,022			
1952	5,364.58	5,074	5,365			
1953	2,751.48	2,585	2,751			
1954	2,503.83	2,336	2,504			
1955	1,688.17	1,565	1,688			
1956	69.33	64	69			
1958	3,139.09	2,849	3,139			
1959	727.82	656	728			
1964	948.40	824	948			
1969	176.01	147	176			
1974	304.86	242	299	6	6.00	1
1980	5,852.63	4,319	5,328	525	11.67	45
1983	414.15	325	401	13	13.00	1
1984	12,992.80	10,030	12,372	621	12.42	50
1986	483.17	363	448	35	11.67	3
1989	6,269.91	4,504	5,556	714	14.57	49
1990	3,452.63	2,439	3,009	444	15.31	29
1991	4,259.48	2,957	3,647	612	15.69	39
1992	6,560.01	4,470	5,514	1,046	16.09	65
1993	1,344.70	899	1,109	236	16.86	14
1996	4,261.43	2,670	3,293	968	18.26	53
1997	548.91	336	414	135	19.29	7
1998	1,713.94	1,023	1,262	452	18.83	24
2003	3,060.34	1,577	1,945	1,115	21.86	51
2010	5,254.57	2,045	2,523	2,732	25.77	106
2011	7,667.97	2,826	3,486	4,182	26.47	158
	94,788.96	69,880	80,953	13,836		695

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 19.90 0.73

SURVIVOR CURVE: IOWA 80-R2.5
NET SALVAGE PERCENT: 0

1875	6,098.55	6,099	6,099			
1886	2,036.63	1,983	2,037			
1887	12,977.72	12,593	12,978			
1888	5,049.69	4,882	5,050			
1889	1,217.43	1,173	1,217			
1890	7,550.86	7,251	7,551			
1891	11,554.16	11,054	11,554			
1892	8,221.32	7,837	8,221			
1893	14,628.55	13,895	14,629			
1894	1,426.82	1,350	1,427			
1896	2,075.90	1,951	2,076			
1897	9,429.30	8,834	9,429			
1899	20,236.04	18,837	20,236			
1900	77,329.59	71,762	77,330			
1901	28,973.47	26,808	28,973			
1902	152,837.75	140,993	152,838			
1903	18,234.31	16,771	18,234			
1904	412.20	378	412			
1905	32,973.58	30,146	32,974			
1906	71,066.60	64,777	71,067			
1907	6,103.67	5,547	6,104			
1908	14,417.62	13,062	14,418			
1909	21,464.66	19,388	21,465			
1910	8,469.56	7,627	8,470			
1911	17,707.42	15,897	17,707			
1912	20,140.01	18,023	20,140			
1913	2,978.96	2,657	2,979			
1914	52,567.04	46,738	52,567			
1915	25,044.96	22,196	25,045			
1916	22,258.85	19,663	22,259			
1917	65,454.59	57,625	65,455			
1918	1,862.76	1,634	1,863			
1919	19,453.42	17,010	19,453			
1920	885.66	772	886			
1921	20,109.26	17,460	20,109			
1922	12,025.35	10,403	12,025			
1923	2,041.01	1,759	2,041			
1924	78,347.54	67,271	78,348			
1925	136,100.69	116,418	136,101			
1926	129,754.77	110,551	129,755			
1927	43,574.86	36,973	43,575			
1928	13,991.03	11,822	13,991			
1929	32,143.29	27,045	32,143			
1930	42,051.37	35,229	42,051			
1931	28,394.11	23,681	28,394			
1932	10,210.82	8,476	10,211			
1933	8,071.98	6,668	8,072			
1934	4,170.93	3,429	4,171			
1935	51,771.78	42,343	51,772			
1936	43,833.94	35,659	43,834			
1937	55,186.88	44,653	54,900	287	15.11	19
1938	39,581.68	31,843	39,151	431	15.39	28
1939	116,807.20	93,432	114,873	1,934	15.98	121
1940	28,518.62	22,676	27,880	639	16.38	39

SURVIVOR CURVE: IOWA 80-R2.5
NET SALVAGE PERCENT: 0

1941	38,659.27	30,545	37,555	1,104	16.73	66
1942	93,051.80	73,046	89,809	3,243	17.16	189
1943	40,740.35	31,773	39,064	1,676	17.64	95
1944	115,004.13	89,071	109,512	5,492	18.07	304
1945	16,094.32	12,377	15,217	877	18.66	47
1946	22,622.02	17,269	21,232	1,390	19.04	73
1947	61,771.76	46,800	57,540	4,232	19.41	218
1948	692,839.33	520,842	640,369	52,470	19.86	2,642
1949	1,164,612.39	868,510	1,067,822	96,790	20.34	4,759
1950	230,179.20	170,245	209,314	20,865	20.82	1,002
1951	245,689.01	180,183	221,533	24,156	21.34	1,132
1952	1,236,863.63	899,051	1,105,372	131,492	21.85	6,018
1953	553,636.30	398,829	490,355	63,281	22.37	2,829
1954	758,555.15	541,320	665,546	93,009	22.91	4,060
1955	934,343.25	660,469	812,038	122,305	23.45	5,216
1956	436,097.62	305,216	375,259	60,839	24.01	2,534
1957	1,332,504.87	923,266	1,135,144	197,361	24.57	8,033
1958	875,482.12	600,248	737,997	137,485	25.15	5,467
1959	1,846,722.70	1,252,780	1,540,277	306,446	25.73	11,910
1960	709,972.77	476,307	585,613	124,360	26.33	4,723
1961	1,670,348.55	1,108,076	1,362,365	307,984	26.93	11,436
1962	1,560,084.44	1,023,025	1,257,796	302,288	27.54	10,976
1963	1,811,737.41	1,174,006	1,443,425	368,312	28.16	13,079
1964	1,795,180.84	1,149,131	1,412,842	382,339	28.79	13,280
1965	827,737.08	523,229	643,303	184,434	29.43	6,267
1966	1,266,721.51	790,434	971,828	294,894	30.08	9,804
1967	1,123,852.00	692,158	850,999	272,853	30.73	8,879
1968	1,066,427.98	647,855	796,529	269,899	31.40	8,596
1969	1,223,717.18	733,153	901,402	322,315	32.07	10,050
1970	786,623.55	464,698	571,340	215,284	32.74	6,576
1971	646,466.53	376,321	462,682	183,785	33.43	5,498
1972	1,924,464.19	1,103,680	1,356,960	567,504	34.12	16,633
1973	1,253,466.76	707,895	870,348	383,119	34.82	11,003
1974	852,553.77	473,918	582,676	269,878	35.53	7,596
1975	678,737.91	371,270	456,472	222,266	36.24	6,133
1976	566,198.85	304,615	374,520	191,679	36.96	5,186
1977	1,065,446.64	563,493	692,807	372,640	37.69	9,887
1978	4,808,610.72	2,499,275	3,072,827	1,735,784	38.42	45,179
1979	2,205,606.32	1,125,962	1,384,356	821,250	39.16	20,972
1980	779,248.95	390,497	480,111	299,138	39.91	7,495
1981	2,371,393.85	1,166,133	1,433,746	937,648	40.66	23,061
1982	2,153,385.97	1,038,470	1,276,786	876,600	41.42	21,164
1983	1,048,716.98	569,139	699,749	348,968	36.58	9,540
1984	3,409,053.28	1,807,480	2,222,273	1,186,780	37.58	31,580
1985	2,463,449.07	1,285,428	1,580,417	883,032	37.95	23,268
1986	2,544,908.00	1,295,867	1,593,252	951,656	38.95	24,433
1987	4,112,831.11	2,058,883	2,531,370	1,581,461	39.32	40,220
1988	1,732,810.81	845,438	1,039,455	693,356	40.32	17,196
1989	3,079,254.14	1,474,655	1,813,069	1,266,185	40.71	31,103
1990	7,247,269.37	3,404,767	4,186,117	3,061,152	41.10	74,481
1991	4,294,066.29	1,961,959	2,412,203	1,881,863	42.10	44,700
1992	2,389,702.78	1,069,153	1,314,510	1,075,193	42.51	25,293
1993	3,001,742.83	1,303,957	1,603,198	1,398,545	43.51	32,143
1994	2,065,248.20	877,111	1,078,397	986,851	43.92	22,469
1995	2,164,083.78	897,446	1,103,398	1,060,686	44.34	23,922

SURVIVOR CURVE: IOWA 80-R2.5
NET SALVAGE PERCENT: 0

1996	2,199,058.67	882,922	1,085,541	1,113,518	45.34	24,559
1997	3,608,543.99	1,411,662	1,735,620	1,872,924	45.77	40,920
1998	2,311,350.79	873,459	1,073,907	1,237,444	46.77	26,458
1999	2,669,840.49	980,899	1,206,003	1,463,837	47.21	31,007
2000	2,788,821.94	994,494	1,222,718	1,566,104	47.66	32,860
2001	2,229,891.40	765,076	940,651	1,289,240	48.66	26,495
2002	3,068,191.22	1,018,946	1,252,781	1,815,410	49.11	36,966
2003	2,314,878.83	742,613	913,033	1,401,846	49.58	28,274
2004	3,350,956.83	1,029,079	1,265,239	2,085,718	50.58	41,236
2005	8,666,798.36	2,561,906	3,149,831	5,516,967	51.04	108,091
2006	7,618,184.62	2,146,804	2,639,468	4,978,717	52.04	95,671
2007	6,836,724.63	1,845,232	2,268,689	4,568,036	52.53	86,961
2008	7,008,852.18	1,806,882	2,221,538	4,787,314	53.01	90,310
2009	4,454,839.29	1,094,109	1,345,193	3,109,646	53.50	58,124
2010	8,512,702.77	1,970,691	2,422,939	6,089,764	54.50	111,739
2011	11,221,580.81	2,456,404	3,020,117	8,201,464	55.01	149,090
2012	8,321,957.06	1,715,988	2,109,785	6,212,172	55.51	111,911
2013	10,481,495.33	2,025,025	2,489,743	7,991,752	56.03	142,633
2014	7,008,482.31	1,253,117	1,540,691	5,467,791	57.03	95,876
2015	5,406,659.05	894,802	1,100,148	4,306,511	57.55	74,831
2016	3,376,073.43	513,501	631,343	2,744,730	58.08	47,258
2017	14,025,436.42	1,941,120	2,386,582	11,638,854	58.61	198,581
2018	2,825,207.07	352,021	432,805	2,392,402	59.15	40,446
2019	11,540,285.46	1,275,202	1,567,845	9,972,440	59.70	167,043
2020	5,067,656.87	491,056	603,747	4,463,910	59.81	74,635
2021	1,531,409.09	126,035	154,958	1,376,451	60.38	22,796
2022	32,456,503.23	2,207,042	2,713,530	29,742,973	60.52	491,457
2023	21,738,946.87	1,158,686	1,424,590	20,314,357	60.69	334,723
2024	17,287,199.56	660,371	811,918	16,475,282	60.87	270,663
2025	14,542,032.99	334,467	411,223	14,130,810	60.31	234,303
2026	9,753,099.55	148,247	182,268	9,570,832	59.33	161,315
	329,280,077.50	84,499,586	103,771,080	225,508,998		4,197,854

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 53.70 1.27

SURVIVOR CURVE: IOWA 42-S0.5
NET SALVAGE PERCENT: 0

1920	589.16	589	589			
1936	121.53	122	122			
1938	663.19	663	663			
1942	87.34	87	87			
1950	1,370.50	1,284	1,370			
1952	24,559.33	22,618	24,559			
1954	13,257.83	11,998	13,258			
1955	46,372.83	41,603	46,373			
1956	1,191.27	1,059	1,191			
1957	56.16	49	56			
1959	1,661.72	1,438	1,662			
1960	374.13	321	374			
1962	29,560.93	24,859	28,932	629	6.69	94
1963	3,576.90	2,979	3,467	110	6.88	16
1964	42,183.87	34,781	40,480	1,704	7.38	231
1965	751.09	613	713	38	7.60	5
1971	544.47	417	485	59	9.83	6
1972	193.99	147	171	23	11.50	2
1974	100.99	75	87	14	14.00	1
1975	896.34	655	762	134	11.17	12
1978	1,225,415.27	861,295	1,002,414	223,001	12.48	17,869
1979	2,195.64	1,523	1,773	423	12.82	33
1980	2,169.34	1,484	1,727	442	13.39	33
1981	92,777.86	62,559	72,809	19,969	13.68	1,460
1982	316,102.29	210,132	244,561	71,541	14.08	5,081
1983	33,503.67	25,748	29,967	3,537	13.10	270
1984	49,765.90	37,996	44,221	5,545	13.14	422
1985	4,988.02	3,760	4,376	612	13.60	45
1986	17,629.79	13,111	15,259	2,371	13.95	170
1987	14,351.73	10,523	12,247	2,105	14.32	147
1988	561.48	408	475	86	14.33	6
1989	13,608.36	9,726	11,320	2,288	14.95	153
1990	44,308.76	31,304	36,433	7,876	15.12	521
1991	15,482.07	10,748	12,509	2,973	15.57	191
1992	4,020.95	2,754	3,205	816	15.69	52
1993	35,219.30	23,657	27,533	7,686	16.32	471
1994	26,119.86	17,273	20,103	6,017	16.62	362
1995	61,188.06	39,791	46,311	14,877	16.89	881
1996	240,188.77	153,433	178,572	61,617	17.20	3,582
1997	10,471.39	6,561	7,636	2,835	17.50	162
1998	50,848.33	31,068	36,158	14,690	18.09	812
1999	8,602.24	5,165	6,011	2,591	18.25	142
2000	2,348.66	1,377	1,603	746	18.65	40
2001	447,934.32	256,174	298,147	149,787	19.03	7,871
2002	48,487.86	26,993	31,416	17,072	19.44	878
2003	397,296.00	214,897	250,107	147,189	19.87	7,408
2004	86,137.12	45,377	52,812	33,325	20.14	1,655
2005	1,759,513.83	896,824	1,043,764	715,750	20.60	34,745
2006	448,977.65	221,840	258,187	190,791	20.90	9,129
2007	1,874,681.50	895,348	1,042,046	832,636	21.24	39,201
2008	1,806,847.86	828,620	964,385	842,463	21.74	38,752
2009	1,851,827.04	815,915	949,598	902,229	22.11	40,806
2010	108,375.96	45,724	53,216	55,160	22.49	2,453
2011	1,414,793.57	569,313	662,592	752,202	22.90	32,847

SURVIVOR CURVE: IOWA 42-S0.5
NET SALVAGE PERCENT: 0

2012	200,524.04	76,901	89,501	111,023	23.18	4,790
2013	99,406.55	36,005	41,904	57,503	23.62	2,435
2014	2,656,008.13	903,574	1,051,620	1,604,388	24.08	66,627
2015	75,454.84	24,032	27,970	47,485	24.43	1,944
2017	85,154.43	23,171	26,967	58,187	25.19	2,310
2019	158,982.37	35,262	41,039	117,943	26.03	4,531
2020	3,969.52	774	901	3,069	26.46	116
2021	202,673.46	34,029	39,604	163,069	26.84	6,076
2022	45,165.67	6,283	7,312	37,854	27.33	1,385
2023	2,382,299.70	262,053	304,990	2,077,310	27.64	75,156
2024	55,245.24	4,381	5,099	50,146	28.08	1,786
2025	707,949.33	33,698	39,219	668,730	28.35	23,588
2026	3,480,088.73	108,579	126,369	3,353,720	28.49	117,716
	22,837,776.03	8,073,520	9,391,389	13,446,387		557,477

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 24.10 2.44

SURVIVOR CURVE: IOWA 48-R1.5
NET SALVAGE PERCENT: 0

1905	126.83	127	127			
1916	12.63	13	13			
1917	15.90	16	16			
1918	7.95	8	8			
1919	26.66	27	27			
1920	118.87	119	119			
1925	7.95	8	8			
1926	134.78	135	135			
1927	64.65	65	65			
1928	18.26	18	18			
1929	365.26	365	365			
1930	197.04	197	197			
1931	253.66	252	254			
1934	42.87	42	43			
1935	1,540.39	1,486	1,540			
1936	969.88	929	970			
1937	1,135.53	1,080	1,136			
1940	1,350.61	1,259	1,351			
1941	94.14	87	94			
1942	657.77	607	658			
1943	318.83	293	319			
1945	9.17	8	9			
1946	135.83	123	136			
1947	725.45	652	725			
1948	1,105.83	988	1,106			
1949	19,055.99	16,928	19,056			
1950	22,683.67	20,028	22,684			
1951	1,058.01	928	1,058			
1952	7,701.85	6,715	7,702			
1953	23,532.61	20,385	23,533			
1954	12,257.17	10,546	12,257			
1955	24,534.29	20,967	24,534			
1956	11,194.19	9,501	11,194			
1957	41,277.48	34,785	41,277			
1958	43,292.51	36,212	43,293			
1959	7,691.68	6,386	7,692			
1960	732.65	604	733			
1961	13,013.68	10,639	13,014			
1962	20,163.38	16,349	20,163			
1963	5,838.55	4,695	5,797	42	10.50	4
1964	91,423.51	72,891	89,997	1,427	9.71	147
1965	39,292.46	31,058	38,347	945	10.05	94
1966	25,399.83	19,896	24,565	835	10.44	80
1967	36,243.11	28,126	34,727	1,516	10.75	141
1968	233,299.07	179,300	221,379	11,920	11.11	1,073
1969	106,899.67	81,332	100,419	6,481	11.47	565
1970	12,892.10	9,707	11,985	907	11.93	76
1971	70,718.20	52,685	65,049	5,669	12.24	463
1972	18,445.37	13,588	16,777	1,668	12.64	132
1973	28,232.46	20,557	25,381	2,851	13.08	218
1974	38,573.74	27,757	34,271	4,303	13.45	320
1975	11,737.28	8,341	10,299	1,438	13.83	104
1976	29,431.73	20,645	25,490	3,942	14.33	275
1977	16,105.54	11,146	13,762	2,344	14.74	159

SURVIVOR CURVE: IOWA 48-R1.5
NET SALVAGE PERCENT: 0

1978	225,318.23	153,780	189,870	35,448	15.24	2,326
1979	209,935.08	141,225	174,368	35,567	15.71	2,264
1980	227,737.08	150,924	186,344	41,393	16.19	2,557
1981	292,396.62	190,789	235,564	56,833	16.68	3,407
1982	162,388.90	104,267	128,737	33,652	17.18	1,959
1983	159,982.63	117,379	144,926	15,057	15.77	955
1984	132,598.09	96,173	118,743	13,855	16.05	863
1985	161,209.81	114,846	141,799	19,411	16.72	1,161
1986	66,089.13	46,474	57,381	8,708	17.07	510
1987	387,939.69	269,114	332,271	55,669	17.40	3,199
1988	74,938.30	51,243	63,269	11,669	17.76	657
1989	226,635.45	151,800	187,425	39,210	18.45	2,125
1990	167,100.55	110,136	135,983	31,118	18.83	1,653
1991	378,270.93	245,157	302,692	75,579	19.23	3,930
1992	164,733.37	104,886	129,501	35,232	19.64	1,794
1993	671,216.79	419,443	517,880	153,337	20.06	7,644
1994	293,911.68	179,110	221,144	72,768	20.78	3,502
1995	345,746.70	206,376	254,809	90,938	21.22	4,285
1996	144,844.53	84,589	104,441	40,404	21.66	1,865
1997	677,455.66	386,624	477,359	200,097	22.13	9,042
1998	738,695.14	411,453	508,015	230,680	22.60	10,207
1999	273,576.03	148,497	183,347	90,229	23.09	3,908
2000	275,362.78	145,474	179,615	95,748	23.58	4,061
2001	273,109.44	140,214	173,120	99,989	24.09	4,151
2002	1,109,396.73	552,591	682,276	427,121	24.60	17,363
2003	658,571.59	317,695	392,253	266,319	25.13	10,598
2004	1,661,635.55	778,476	961,173	700,463	25.43	27,545
2005	191,289.01	86,444	106,731	84,558	25.98	3,255
2006	1,230,591.40	535,184	660,784	569,807	26.53	21,478
2007	1,212,168.09	508,383	627,693	584,475	26.88	21,744
2008	516,211.25	207,259	255,900	260,311	27.45	9,483
2009	588,119.85	226,367	279,492	308,628	27.83	11,090
2010	1,167,171.70	429,169	529,889	637,283	28.23	22,575
2011	1,557,148.32	542,510	669,829	887,319	28.83	30,778
2012	2,431,975.45	802,795	991,199	1,440,776	29.25	49,257
2013	1,160,081.26	362,641	447,747	712,334	29.50	24,147
2014	1,491,125.75	436,900	539,434	951,692	29.96	31,765
2015	1,758,329.42	481,782	594,849	1,163,480	30.25	38,462
2016	1,959,322.02	498,060	614,947	1,344,375	30.57	43,977
2017	10,896,923.89	2,544,432	3,141,573	7,755,351	30.91	250,901
2018	437,449.49	93,133	114,990	322,459	31.11	10,365
2019	449,665.60	86,066	106,264	343,402	31.34	10,957
2020	551,564.88	93,435	115,363	436,202	31.46	13,865
2021	162,280.42	23,725	29,293	132,987	31.62	4,206
2022	896,877.30	110,137	135,985	760,892	31.55	24,117
2023	5,232,700.35	514,898	635,737	4,596,963	31.31	146,821
2024	537,093.46	39,208	48,409	488,684	30.70	15,918
2025	497,093.76	22,667	27,987	469,107	29.64	15,827
2026	2,468,821.98	77,027	95,104	2,373,718	28.49	83,318
	48,576,959.65	15,342,558	18,929,378	29,647,582		1,021,688

SURVIVOR CURVE: IOWA 35-R1
NET SALVAGE PERCENT: 0

1953	2,740.74	2,741	2,741			
1954	35.60	36	36			
1955	351.02	351	351			
1961	756.22	721	756			
1965	3,429.65	3,147	3,430			
1968	1,634.56	1,458	1,635			
1969	2,732.34	2,414	2,732			
1970	2,520.94	2,204	2,521			
1974	578.55	484	579			
1975	236.10	195	236			
1976	1,215.86	993	1,216			
1979	17,650.83	13,863	17,644	7	7.00	1
1982	4,504.21	3,387	4,311	193	8.77	22
1986	2,135.76	1,726	2,136			
1987	256.35	205	256			
1989	26,482.55	20,611	26,234	249	10.83	23
1990	14.84	11	14	1		
1991	4,856.79	3,681	4,685	172	11.47	15
1992	8,073.07	6,029	7,674	399	11.74	34
1993	12,151.68	8,934	11,372	780	12.00	65
1994	35,464.43	25,637	32,632	2,832	12.42	228
1995	17,491.87	12,419	15,807	1,685	12.86	131
1996	17,646.12	12,291	15,644	2,002	13.26	151
1997	108,647.75	74,152	94,383	14,265	13.69	1,042
1998	56,483.33	37,720	48,011	8,472	14.14	599
1999	28,011.20	18,277	23,264	4,747	14.61	325
2000	86,140.66	55,070	70,095	16,046	14.90	1,077
2002	78,749.24	47,683	60,693	18,056	15.91	1,135
2003	46,378.35	27,368	34,835	11,543	16.28	709
2004	24,561.39	14,096	17,942	6,619	16.63	398
2008	111,157.57	55,679	70,870	40,288	18.35	2,196
2011	19,861.33	8,757	11,146	8,715	19.54	446
2013	5,239.33	2,088	2,658	2,581	20.32	127
2014	4,900.00	1,843	2,346	2,554	20.60	124
2015	553,624.92	195,319	248,609	305,016	20.94	14,566
2016	295,458.11	97,265	123,802	171,656	21.23	8,086
2017	631,609.62	192,704	245,281	386,329	21.45	18,011
2018	241,146.06	67,593	86,035	155,111	21.61	7,178
2019	4,636.30	1,176	1,497	3,139	21.80	144
2021	160,434.13	31,798	40,473	119,961	21.91	5,475
2023	30,785.92	4,218	5,369	25,417	21.52	1,181
	2,650,785.29	1,056,344	1,341,951	1,308,834		63,489

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 20.60 2.40

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1876	535.18	535	535			
1881	11.59	12	12			
1885	352.00	352	352			
1887	302.11	302	302			
1888	303.80	304	304			
1889	1,640.73	1,641	1,641			
1890	466.90	467	467			
1891	254.53	255	255			
1892	366.62	367	367			
1894	1,419.69	1,420	1,420			
1895	115.83	116	116			
1896	12.76	13	13			
1897	541.59	542	542			
1898	187.32	187	187			
1899	1,358.95	1,359	1,359			
1900	1,487.01	1,487	1,487			
1901	57,750.82	57,751	57,751			
1902	20,985.66	20,986	20,986			
1903	55,757.91	55,758	55,758			
1904	6,974.52	6,975	6,975			
1905	20,820.07	20,820	20,820			
1906	12,696.56	12,697	12,697			
1907	3,991.47	3,991	3,991			
1908	3,682.91	3,683	3,683			
1909	2,061.23	2,061	2,061			
1910	3,165.76	3,166	3,166			
1911	6,116.69	6,117	6,117			
1912	12,423.56	12,395	12,424			
1913	7,267.85	7,236	7,268			
1914	8,650.32	8,596	8,650			
1915	16,578.55	16,439	16,579			
1916	3,836.99	3,794	3,837			
1917	3,163.19	3,119	3,163			
1918	1,448.90	1,425	1,449			
1919	1,808.38	1,773	1,808			
1920	5,435.30	5,315	5,435			
1921	3,077.86	3,001	3,078			
1922	6,721.09	6,533	6,721			
1923	7,711.85	7,472	7,712			
1924	3,514.28	3,395	3,514			
1925	4,311.45	4,151	4,311			
1926	2,267.36	2,175	2,267			
1927	3,524.17	3,370	3,516	8	4.00	2
1928	1,429.17	1,362	1,421	8	4.00	2
1929	3,436.00	3,262	3,403	33	3.67	9
1930	5,769.25	5,458	5,694	75	3.95	19
1931	4,799.02	4,524	4,720	79	4.39	18
1932	2,986.25	2,805	2,926	60	4.62	13
1933	884.91	828	864	21	5.25	4
1934	985.72	919	959	27	5.40	5
1935	975.62	906	945	31	5.17	6
1936	3,380.64	3,127	3,262	119	5.67	21
1937	4,752.29	4,378	4,567	185	5.97	31
1938	3,461.64	3,175	3,312	150	6.25	24

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1939	8,948.17	8,175	8,528	420	6.46	65
1940	12,537.47	11,404	11,897	640	6.81	94
1941	25,958.06	23,508	24,525	1,433	7.09	202
1942	6,103.48	5,502	5,740	363	7.41	49
1943	1,382.06	1,240	1,294	88	8.00	11
1944	3,132.18	2,796	2,917	215	7.96	27
1945	16,033.54	14,242	14,858	1,176	8.40	140
1946	8,719.44	7,703	8,036	683	8.76	78
1947	11,572.43	10,167	10,607	965	9.10	106
1948	11,368.64	9,929	10,358	1,011	9.54	106
1949	10,266.47	8,910	9,295	971	9.91	98
1950	29,719.87	25,622	26,730	2,990	10.35	289
1951	39,412.01	33,747	35,206	4,206	10.78	390
1952	23,927.58	20,338	21,217	2,711	11.25	241
1953	16,401.19	13,834	14,432	1,969	11.72	168
1954	22,305.55	18,662	19,469	2,837	12.23	232
1955	27,554.94	22,860	23,848	3,707	12.78	290
1956	27,566.98	22,664	23,644	3,923	13.34	294
1957	24,760.10	20,168	21,040	3,720	13.93	267
1958	95,103.66	76,704	80,021	15,083	14.52	1,039
1959	31,478.89	25,133	26,220	5,259	15.11	348
1960	27,074.73	21,389	22,314	4,761	15.76	302
1961	56,566.83	44,197	46,108	10,459	16.39	638
1962	22,814.68	17,625	18,387	4,428	17.03	260
1963	32,627.88	24,915	25,992	6,636	17.74	374
1964	37,595.96	28,373	29,600	7,996	18.38	435
1965	37,095.20	27,653	28,849	8,246	19.09	432
1966	32,185.46	23,693	24,718	7,467	19.81	377
1967	56,370.01	40,962	42,733	13,637	20.51	665
1968	51,176.17	36,704	38,291	12,885	21.23	607
1969	31,060.18	21,974	22,924	8,136	21.93	371
1970	37,964.75	26,489	27,634	10,331	22.66	456
1971	41,657.49	28,649	29,888	11,769	23.40	503
1972	26,813.77	18,169	18,955	7,859	24.18	325
1973	51,687.84	34,500	35,992	15,696	24.95	629
1974	43,648.85	28,680	29,920	13,729	25.71	534
1975	26,973.73	17,443	18,197	8,777	26.52	331
1976	23,771.53	15,119	15,773	7,999	27.30	293
1977	29,833.89	18,656	19,463	10,371	28.11	369
1978	40,220.45	24,711	25,780	14,440	28.94	499
1979	59,805.49	36,091	37,652	22,153	29.74	745
1980	61,795.41	36,600	38,183	23,612	30.59	772
1981	80,440.05	46,741	48,762	31,678	31.43	1,008
1982	66,323.68	37,778	39,412	26,912	32.27	834
1983	75,703.69	44,370	46,289	29,415	30.67	959
1984	49,386.28	28,491	29,723	19,663	31.11	632
1985	56,685.75	31,931	33,312	23,374	32.11	728
1986	60,050.04	33,010	34,437	25,613	33.09	774
1987	96,831.16	52,289	54,550	42,281	33.58	1,259
1988	101,680.52	53,514	55,828	45,853	34.58	1,326
1989	99,008.25	50,752	52,947	46,061	35.57	1,295
1990	116,992.90	58,801	61,344	55,649	36.04	1,544
1991	88,606.59	43,311	45,184	43,423	37.05	1,172
1992	159,574.41	75,798	79,075	80,499	38.04	2,116
1993	145,170.76	66,953	69,848	75,323	39.05	1,929

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1994	116,906.29	52,678	54,956	61,950	39.53	1,567
1995	95,713.43	41,798	43,605	52,108	40.52	1,286
1996	49,135.34	20,774	21,672	27,463	41.55	661
1997	160,911.05	65,797	68,642	92,269	42.52	2,170
1998	78,529.79	31,019	32,360	46,170	43.52	1,061
1999	136,298.12	52,311	54,573	81,725	44.01	1,857
2000	121,853.66	45,061	47,009	74,845	45.01	1,663
2001	389,701.31	138,656	144,652	245,049	46.01	5,326
2002	248,302.90	84,870	88,540	159,763	47.02	3,398
2003	535,657.43	175,589	183,182	352,475	48.01	7,342
2004	237,666.40	74,580	77,805	159,861	49.01	3,262
2005	320,451.32	96,071	100,225	220,226	50.01	4,404
2006	499,428.35	143,785	150,002	349,426	50.50	6,919
2007	209,830.34	57,452	59,936	149,894	51.49	2,911
2008	111,669.23	29,000	30,254	81,415	52.49	1,551
2009	48,393.49	11,885	12,399	35,994	53.48	673
2010	45,085.01	10,437	10,888	34,197	54.54	627
2011	249,454.99	54,232	56,577	192,878	55.50	3,475
2012	165,726.91	33,692	35,149	130,578	56.50	2,311
2013	30,336.74	5,740	5,988	24,349	57.56	423
2014	1,150.00	201	210	940	58.75	16
2015	12,300.58	1,980	2,066	10,235	59.51	172
2016	107,526.45	15,796	16,479	91,047	60.50	1,505
2017	203,905.99	27,079	28,250	175,656	61.50	2,856
2018	2,388.00	283	295	2,093	63.42	33
2020	12,955.85	1,180	1,231	11,725	64.07	183
2024	3,724,469.78	127,749	133,273	3,591,197	68.01	52,804
2025	1,038,567.42	20,875	21,778	1,016,789	69.01	14,734
2026	908,022.62	11,804	12,314	895,709	69.51	12,886
	12,669,747.70	3,336,310	3,469,425	9,200,323		168,257

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 54.70 1.33

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1903	83.73	84	84
1908	19.54	19	20
1912	9.54	9	10
1913	1,357.31	1,318	1,357
1914	1,639.31	1,585	1,639
1915	2,011.59	1,936	2,012
1917	1,021.50	975	1,022
1918	2,575.62	2,446	2,576
1919	815.12	771	815
1920	353.72	333	354
1921	1,745.97	1,636	1,746
1922	1,361.96	1,270	1,362
1923	607.99	564	608
1924	633.17	585	633
1925	3,680.40	3,383	3,680
1926	1,312.54	1,200	1,313
1927	3,613.78	3,289	3,614
1928	5,024.89	4,551	5,025
1929	3,011.80	2,714	3,012
1930	4,024.26	3,609	4,024
1931	701.45	626	701
1932	1,920.05	1,705	1,920
1933	388.56	343	389
1934	313.86	276	314
1935	1,724.32	1,507	1,724
1936	3,679.73	3,200	3,680
1937	4,134.88	3,576	4,135
1938	2,238.07	1,925	2,238
1939	1,739.28	1,488	1,739
1940	1,749.00	1,488	1,749
1941	2,121.15	1,794	2,121
1942	10,812.23	9,092	10,812
1943	2,101.80	1,757	2,102
1944	6,541.60	5,435	6,542
1945	1,414.75	1,168	1,415
1946	10,667.70	8,751	10,668
1947	10,157.66	8,276	10,158
1948	25,651.89	20,762	25,652
1949	30,399.29	24,432	30,399
1950	33,724.76	26,912	33,725
1951	49,071.55	38,872	49,072
1952	81,155.43	63,800	81,155
1953	69,467.96	54,185	69,468
1954	22,057.69	17,069	22,058
1955	48,500.57	37,218	48,501
1956	36,568.53	27,826	36,569
1957	40,684.72	30,689	40,685
1958	76,107.43	56,893	76,107
1959	71,394.05	52,876	71,394
1960	19,360.19	14,201	19,360
1961	63,351.58	46,022	63,352
1962	9,462.25	6,804	9,462
1963	35,290.18	25,110	35,290
1964	35,101.11	24,711	35,101

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1965	36,289.22	25,269	36,289			
1966	34,727.22	23,903	34,727			
1967	20,757.29	14,121	20,757			
1968	18,895.70	12,701	18,896			
1969	17,078.22	11,337	17,078			
1970	21,544.06	14,120	21,544			
1971	24,413.24	15,790	24,413			
1972	33,515.59	21,383	33,516			
1973	42,333.41	26,637	42,333			
1974	52,183.31	32,361	52,183			
1975	70,774.07	43,249	70,774			
1976	24,458.90	14,721	24,459			
1977	10,052.47	5,956	10,052			
1978	13,381.28	7,800	13,381			
1979	61,227.14	35,097	61,227			
1980	46,957.29	26,462	46,957			
1981	108,073.93	59,823	108,074			
1982	24,493.98	13,313	24,494			
1983	174,266.69	108,202	174,267			
1984	50,313.82	30,732	50,314			
1985	43,778.24	26,289	43,778			
1986	30,873.15	18,218	30,873			
1987	26,994.30	15,640	26,994			
1988	37,166.07	21,133	37,166			
1989	61,580.41	34,331	61,580			
1990	32,820.21	17,926	32,820			
1991	30,990.54	16,574	30,991			
1992	12,536.57	6,558	12,537			
1993	39,532.32	20,213	39,532			
1994	33,782.35	16,864	33,782			
1995	64,900.20	31,606	64,900			
1996	11,243.39	5,335	11,243			
1997	21,575.41	9,964	21,575			
1998	40,226.17	18,062	40,226			
1999	33,979.75	14,907	33,980			
2000	43,051.20	18,310	43,051			
2002	2,350.85	936	2,351			
2003	2,053.26	788	2,053			
2004	44,825.88	16,581	44,826			
2005	63,144.05	22,587	63,144			
2006	168,913.79	57,937	168,914			
2007	5,524.79	1,813	5,525			
2008	270,058.56	84,555	270,059			
2009	2,015.74	604	2,016			
2010	45,567.85	12,941	45,568			
2011	51,274.14	13,834	51,274			
2012	54,052.88	13,713	54,053			
2013	160,494.26	38,326	160,494			
2014	21,500.33	4,780	21,500			
2015	419,116.93	86,590	403,282	15,835	43.86	361
2017	6,204.02	1,081	5,035	1,169	44.96	26
2018	140,968.77	22,188	103,338	37,631	45.07	835
2019	12,998.63	1,822	8,486	4,513	45.59	99
2023	130,590.79	9,063	42,210	88,381	45.84	1,928
2024	25,764.48	1,296	6,036	19,728	45.67	432

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

2026	1,302,345.25	26,698	124,342	1,178,003	43.73	26,938
	5,225,191.37	1,906,106	3,879,932	1,345,259		30,619

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 43.90 0.59

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1905	18.93	19	19			
1906	10.01	10	10			
1907	41.85	42	42			
1909	16.66	16	17			
1910	5.15	5	5			
1911	36.07	35	36			
1912	10.16	10	10			
1913	33.39	32	33			
1914	13.64	13	14			
1915	7.21	7	7			
1917	11.97	11	12			
1922	15.26	14	15			
1925	2.50	2	2			
1927	26.62	24	27			
1928	617.16	559	617			
1929	5.35	5	5			
1930	19.62	18	20			
1933	1.25	1	1			
1938	156.55	135	157			
1939	541.21	463	541			
1940	225.24	192	225			
1941	132.11	112	132			
1942	1,264.96	1,064	1,265			
1943	140.00	117	140			
1947	28.90	24	29			
1948	119.32	97	119			
1949	954.21	767	954			
1950	318.52	254	319			
1951	1,225.25	971	1,225			
1952	1,723.65	1,355	1,724			
1953	1,838.37	1,434	1,838			
1954	1,808.65	1,400	1,809			
1955	4,119.06	3,161	4,119			
1956	2,972.20	2,262	2,972			
1957	599.42	452	599			
1958	2,092.84	1,564	2,093			
1959	1,105.18	819	1,105			
1960	1,903.13	1,396	1,903			
1961	655.47	476	655			
1962	3,127.73	2,249	3,128			
1963	2,267.09	1,613	2,267			
1964	1,006.92	709	1,007			
1965	4,910.23	3,419	4,879	31	15.50	2
1966	1,977.05	1,361	1,942	35	17.50	2
1967	4,007.26	2,726	3,890	117	19.50	6
1968	2,402.78	1,615	2,305	98	19.60	5
1969	2,104.83	1,397	1,994	111	22.20	5
1970	7,723.63	5,062	7,223	501	22.77	22
1971	3,384.07	2,189	3,124	260	23.64	11
1972	5,978.05	3,814	5,443	535	23.26	23
1973	4,798.08	3,019	4,308	490	24.50	20
1974	1,207.86	749	1,069	139	23.17	6
1976	8,495.73	5,113	7,296	1,200	26.09	46
1977	2,075.92	1,230	1,755	321	26.75	12

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1978	1,584.85	924	1,319	266	26.60	10
1979	3,055.69	1,752	2,500	556	27.80	20
1980	15,755.65	8,879	12,670	3,086	28.31	109
1981	1,735.37	961	1,371	364	28.00	13
1982	7,477.67	4,064	5,799	1,679	29.46	57
1983	9,556.02	5,933	8,466	1,090	26.59	41
1984	10,545.06	6,441	9,191	1,354	27.08	50
1985	7,845.56	4,711	6,723	1,123	27.39	41
1986	13,834.09	8,163	11,649	2,185	28.01	78
1987	16,371.96	9,486	13,536	2,836	28.65	99
1988	24,793.91	14,098	20,118	4,676	29.23	160
1989	20,057.78	11,182	15,957	4,101	29.72	138
1990	10,248.72	5,598	7,988	2,261	30.15	75
1991	24,384.92	13,041	18,609	5,776	30.89	187
1992	32,716.16	17,114	24,422	8,294	31.42	264
1993	43,540.71	22,262	31,768	11,773	31.91	369
1994	13,356.35	6,667	9,514	3,842	32.56	118
1995	25,503.16	12,420	17,723	7,780	33.11	235
1996	17,361.84	8,238	11,756	5,606	33.77	166
1997	12,560.71	5,801	8,278	4,283	34.26	125
1998	19,747.96	8,867	12,653	7,095	34.95	203
1999	38,323.29	16,812	23,991	14,332	35.04	409
2000	17,222.31	7,325	10,453	6,769	35.63	190
2001	25,491.47	10,497	14,979	10,512	36.25	290
2002	30,061.47	11,964	17,072	12,989	36.90	352
2003	43,162.95	16,575	23,652	19,511	37.59	519
2004	46,337.65	17,140	24,459	21,879	38.18	573
2005	49,805.93	17,816	25,423	24,383	38.46	634
2006	39,229.62	13,456	19,202	20,028	39.12	512
2007	26,168.97	8,586	12,252	13,917	39.76	350
2008	38,476.67	12,047	17,191	21,286	40.39	527
2009	31,291.92	9,375	13,378	17,914	40.71	440
2010	56,436.18	16,028	22,872	33,564	41.39	811
2011	49,784.92	13,432	19,167	30,618	41.71	734
2012	115,135.23	29,210	41,682	73,453	42.41	1,732
2013	67,646.44	16,154	23,052	44,594	42.76	1,043
2014	7,717.64	1,716	2,449	5,269	43.55	121
2015	2,009.53	415	592	1,418	44.31	32
2016	4,884.04	931	1,328	3,556	44.45	80
2021	3,388.02	358	511	2,877	45.67	63
	1,104,892.66	452,042	642,160	462,733		12,130

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 38.10 1.10

PITTSBURGH DIV AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2035
 NET SALVAGE PERCENT: 0

1905	13,481.44	12,767	11,826	1,656	6.79	244
1919	1,926.91	1,801	1,668	259	7.62	34
1922	400.82	377	349	52	6.50	8
1927	750.59	701	649	101	7.21	14
1936	1,676.98	1,547	1,433	244	7.63	32
1943	872.73	801	742	131	7.71	17
1945	569.96	520	482	88	8.00	11
1948	237.87	216	200	38	7.60	5
1949	692.13	627	581	111	7.93	14
1950	1,244,916.21	1,132,127	1,048,649	196,268	7.61	25,791
1951	1,203.94	1,090	1,010	194	8.08	24
1952	3,847.45	3,493	3,235	612	7.56	81
1953	898.12	811	751	147	7.74	19
1958	891.52	799	740	151	7.95	19
1960	1,158.63	1,031	955	204	8.16	25
1961	1,045.63	930	861	184	8.00	23
1962	1,085.17	965	894	191	7.96	24
1963	660.66	587	544	117	7.80	15
1964	174,029.67	154,242	142,869	31,161	8.01	3,890
1965	19,001.79	16,805	15,566	3,436	8.03	428
1966	4,722.91	4,166	3,859	864	8.07	107
1967	3,887.28	3,418	3,166	721	8.19	88
1968	11,176.28	9,793	9,071	2,105	8.25	255
1969	31.95	28	26	6	6.00	1
1970	2,279.85	1,994	1,847	433	8.17	53
1971	21,739.76	18,914	17,519	4,220	8.27	510
1972	12,280.95	10,693	9,905	2,376	8.08	294
1973	11,646.34	10,079	9,336	2,311	8.31	278
1974	1,371.05	1,186	1,099	273	8.27	33
1975	6,993.01	6,041	5,596	1,397	8.12	172
1976	2,273.20	1,960	1,815	458	8.04	57
1977	5,746.85	4,913	4,551	1,196	8.36	143
1979	12,619.29	10,771	9,977	2,642	8.13	325
1981	3,057.38	2,583	2,393	665	8.31	80
1982	71,564.28	60,393	55,940	15,624	8.22	1,901
1983	35,103.99	29,414	27,245	7,859	8.40	936
1984	13,103.50	10,949	10,142	2,962	8.34	355
1985	60,178.50	50,099	46,405	13,774	8.33	1,654
1986	231,569.14	191,855	177,708	53,861	8.37	6,435
1987	43,822.14	36,276	33,601	10,221	8.20	1,246
1988	247,922.43	203,817	188,788	59,134	8.31	7,116
1989	21,016.17	17,221	15,951	5,065	8.25	614
1990	901,807.59	732,358	678,357	223,451	8.43	26,507
1991	7,921.08	6,424	5,950	1,971	8.25	239
1992	10,029.97	8,078	7,482	2,548	8.33	306
1993	27,940.33	22,316	20,671	7,270	8.42	863
1994	48,213.43	38,291	35,468	12,746	8.40	1,517
1995	24,537.74	19,350	17,923	6,615	8.42	786
1996	20,252.76	15,894	14,722	5,531	8.34	663
1997	48,138.54	37,524	34,757	13,381	8.32	1,608
1998	372.78	288	267	106	8.15	13
1999	142.95	109	101	42	8.40	5

PITTSBURGH DIV AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2035
 NET SALVAGE PERCENT: 0

2000	169,420.27	128,454	118,982	50,438	8.43	5,983
2001	1,320,721.95	993,579	920,317	400,405	8.37	47,838
2002	185,810.88	138,373	128,170	57,641	8.37	6,887
2003	865,421.13	636,344	589,423	275,999	8.43	32,740
2004	699,652.93	509,697	472,114	227,539	8.35	27,250
2005	85,481.43	61,333	56,811	28,671	8.43	3,401
2006	650,399.85	460,808	426,830	223,570	8.40	26,615
2007	24,300.00	16,940	15,691	8,609	8.44	1,020
2008	162,468.30	111,599	103,370	59,098	8.39	7,044
2009	166,927.04	112,509	104,213	62,714	8.42	7,448
2011	593,421.97	384,241	355,909	237,513	8.39	28,309
2012	270,229.11	170,623	158,042	112,187	8.42	13,324
2013	3,452.91	2,122	1,966	1,487	8.40	177
2014	63,070.43	37,590	34,818	28,252	8.42	3,355
2016	253,903.20	140,434	130,079	123,824	8.42	14,706
2017	192,263.18	101,573	94,083	98,180	8.41	11,674
2018	1,706,003.98	853,002	790,105	915,899	8.42	108,777
2019	783,485.14	367,219	340,142	443,343	8.41	52,716
2020	30,335.80	13,120	12,153	18,183	8.42	2,160
2021	410,715.23	160,836	148,977	261,739	8.41	31,122
	12,020,296.37	8,299,828	7,687,833	4,332,463		518,424

GROVE CITY - LEASED
 FULLY ACCRUED
 NET SALVAGE PERCENT: 0

1982	20,774.82	20,775	20,775
1985	335.13	335	335
1987	6,381.82	6,382	6,382
1989	1,068.50	1,068	1,069
1997	8,903.57	8,904	8,904
	37,463.84	37,464	37,464

NORTHERN DIVISION H.Q. - KISKI
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2037
 NET SALVAGE PERCENT: 0

1977	574,656.36	477,080	441,249	133,408	10.11	13,196
1978	6,521.93	5,400	4,994	1,527	10.05	152
1979	9,349.20	7,713	7,134	2,215	10.07	220
1981	16,129.01	13,185	12,195	3,934	10.14	388
1983	3,996.10	3,244	3,000	996	10.06	99
1984	8,494.75	6,846	6,332	2,163	10.20	212
1985	30,698.24	24,666	22,813	7,885	10.13	778
1986	11,922.75	9,541	8,824	3,098	10.09	307
1987	23,108.71	18,399	17,017	6,092	10.09	604
1988	6,440.97	5,097	4,714	1,727	10.16	170
1990	1,876.08	1,469	1,359	517	10.14	51

NORTHERN DIVISION H.Q. - KISKI
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2037
 NET SALVAGE PERCENT: 0

1991	72.90	57	53	20	10.00	2
1994	22,760.50	17,339	16,037	6,724	10.14	663
1997	156,811.27	116,244	107,513	49,298	10.27	4,800
1998	10,184.58	7,496	6,933	3,252	10.19	319
1999	2,719.86	1,976	1,828	892	10.37	86
2002	37,658.07	26,481	24,492	13,166	10.31	1,277
2008	376,870.14	241,536	223,395	153,475	10.32	14,872
2012	5,896.34	3,434	3,176	2,720	10.34	263
2013	470.34	266	246	224	10.18	22
2017	9,500.00	4,535	4,194	5,306	10.30	515
2019	51,848.55	21,688	20,059	31,789	10.31	3,083
2020	35,849.00	13,755	12,722	23,127	10.31	2,243
2021	911,733.42	314,092	290,502	621,231	10.31	60,255
2022	1,825.65	548	507	1,319	10.30	128
	2,317,394.72	1,342,087	1,241,289	1,076,106		104,705

BUTLER METER SHOP
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2021
 NET SALVAGE PERCENT: 0

1966	62,627.19	62,627	62,627
1969	216.05	216	216
1972	1,191.68	1,192	1,192
	64,034.92	64,035	64,035

CENT DIV AND GREENSBURG CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2028
 NET SALVAGE PERCENT: 0

1949	2,371.56	2,332	2,161	210	1.32	159
1959	2,096.59	2,049	1,899	197	1.55	127
1963	430,677.99	420,600	389,830	40,848	1.52	26,874
1964	1,539.18	1,499	1,389	150	1.69	89
1965	654.36	639	592	62	1.48	42
1966	976.50	950	881	96	1.71	56
1967	4,121.30	4,016	3,722	399	1.56	256
1968	646.90	631	585	62	1.48	42
1969	6,657.08	6,498	6,023	634	1.41	450
1971	10,820.37	10,494	9,726	1,094	1.73	632
1972	22,566.15	21,982	20,374	2,192	1.45	1,512
1973	3,706.54	3,603	3,339	367	1.53	240
1974	3,438.45	3,334	3,090	348	1.64	212
1976	919.57	890	825	95	1.67	57
1977	1,221.18	1,183	1,096	125	1.60	78
1978	1,597.60	1,547	1,434	164	1.58	104
1979	4,791.81	4,635	4,296	496	1.60	310
1980	718.19	693	642	76	1.65	46

CENT DIV AND GREENSBURG CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2028
 NET SALVAGE PERCENT: 0

1981	1,879.91	1,819	1,686	194	1.53	127
1982	8,262.92	7,964	7,381	882	1.67	528
1983	60,171.49	57,993	53,750	6,421	1.63	3,939
1984	17,367.27	16,723	15,500	1,868	1.63	1,146
1985	90,145.44	86,990	80,626	9,519	1.50	6,346
1986	12,562.64	12,084	11,200	1,363	1.60	852
1987	8,936.72	8,595	7,966	971	1.57	618
1988	55,686.25	53,481	49,569	6,118	1.58	3,872
1989	29,469.36	28,229	26,164	3,305	1.64	2,015
1990	18,494.98	17,714	16,418	2,077	1.60	1,298
1991	119,393.26	114,164	105,812	13,581	1.62	8,383
1992	14,894.58	14,251	13,208	1,686	1.55	1,088
1993	21,385.70	20,438	18,943	2,443	1.55	1,576
1994	187,968.34	179,134	166,029	21,939	1.60	13,712
1995	33,563.46	31,949	29,612	3,952	1.59	2,486
1996	54,289.39	51,683	47,902	6,387	1.53	4,175
1997	39,321.00	37,363	34,630	4,691	1.54	3,046
1998	67,068.81	63,467	58,824	8,245	1.61	5,121
2002	8,304.30	7,806	7,235	1,069	1.56	685
2003	306,305.28	286,916	265,926	40,379	1.58	25,556
2005	144,369.95	134,495	124,656	19,714	1.57	12,557
2007	40,891.92	37,792	35,027	5,865	1.59	3,689
2014	37,660.00	33,435	30,989	6,671	1.57	4,249
2017	6,775.00	5,799	5,375	1,400	1.58	886
2018	195,632.54	164,664	152,618	43,015	1.58	27,225
2019	103,134.21	85,055	78,833	24,302	1.58	15,381
2020	275,385.01	221,052	204,881	70,504	1.58	44,623
2021	13,538.27	10,479	9,712	3,826	1.58	2,422
	2,472,379.32	2,279,109	2,112,377	360,002		228,887

JOHNSTOWN DIVISION AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1943	90,391.82	85,963	79,674	10,718	4.30	2,493
1966	318,929.94	296,732	275,024	43,906	4.52	9,714
1967	4,073.03	3,799	3,521	552	4.28	129
1971	2,535.26	2,346	2,174	361	4.46	81
1972	1,702.65	1,575	1,460	243	4.42	55
1975	1,036.16	954	884	152	4.47	34
1976	3,832.16	3,516	3,259	573	4.55	126
1978	1,858.53	1,701	1,577	282	4.48	63
1979	1,896.31	1,735	1,608	288	4.43	65
1980	2,746.10	2,498	2,315	431	4.59	94
1981	3,468.71	3,151	2,920	548	4.57	120
1984	3,697.28	3,340	3,096	602	4.53	133
1985	10,295.41	9,296	8,616	1,679	4.45	377
1986	8,387.42	7,560	7,007	1,380	4.42	312
1987	57,873.01	52,010	48,205	9,668	4.44	2,177
1988	102,396.21	91,655	84,950	17,446	4.50	3,877

JOHNSTOWN DIVISION AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1989	36,434.20	32,445	30,071	6,363	4.60	1,383
1991	55,157.82	48,837	45,264	9,894	4.58	2,160
1993	25,660.31	22,638	20,982	4,678	4.46	1,049
1994	27,238.69	23,929	22,178	5,060	4.48	1,129
1995	17,435.00	15,228	14,114	3,321	4.55	730
1996	28,120.70	24,462	22,672	5,448	4.55	1,197
1998	46,811.17	40,440	37,482	9,330	4.48	2,083
1999	7,653.98	6,568	6,088	1,566	4.53	346
2000	21,489.18	18,337	16,996	4,494	4.54	990
2002	47,688.32	40,173	37,234	10,454	4.57	2,288
2005	6,950.00	5,730	5,311	1,639	4.57	359
2006	2,379.47	1,948	1,805	574	4.52	127
2007	26,430.44	21,401	19,835	6,595	4.56	1,446
2009	71,375.94	56,565	52,427	18,949	4.56	4,155
2012	5,250.00	3,989	3,697	1,553	4.55	341
2016	15,748.38	10,958	10,156	5,592	4.55	1,229
2018	93,180.06	60,548	56,119	37,062	4.54	8,163
2019	248,846.45	154,285	142,998	105,848	4.55	23,263
2020	9,604.01	5,620	5,209	4,395	4.55	966
2021	74,483.58	40,504	37,541	36,943	4.54	8,137
2022	1,740.67	858	795	945	4.54	208
	1,484,798.37	1,203,294	1,115,265	369,533		81,599

ALTOONA DIVISION, CITY PLANT H.Q. AND WAREHOUSE
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2032
 NET SALVAGE PERCENT: 0

1924	435.52	415	385	51	5.10	10
1945	492.69	461	427	65	5.42	12
1948	2,888.20	2,718	2,519	369	4.92	75
1950	23,605.50	22,007	20,397	3,208	5.55	578
1951	6,091.93	5,697	5,280	812	5.24	155
1952	142,376.31	132,438	122,749	19,627	5.58	3,517
1953	23,136.05	21,572	19,994	3,142	5.32	591
1958	813.70	757	702	112	5.09	22
1961	2,324.78	2,144	1,987	338	5.54	61
1963	2,863.86	2,633	2,440	423	5.57	76
1966	8,158.89	7,492	6,944	1,215	5.38	226
1968	993.92	912	845	149	5.32	28
1969	523.45	478	443	80	5.33	15
1970	0.70	1	1			
1971	3,328.14	3,025	2,804	524	5.57	94
1972	2,445.48	2,222	2,059	386	5.44	71
1973	6,456.26	5,863	5,434	1,022	5.41	189
1976	2,945.98	2,659	2,464	482	5.48	88
1977	1,500.00	1,349	1,250	250	5.56	45
1978	12,059.78	10,861	10,066	1,993	5.34	373
1979	8,643.52	7,746	7,179	1,464	5.48	267
1981	14,781.49	13,225	12,258	2,524	5.35	472
1982	9,671.00	8,591	7,963	1,708	5.58	306

ALTOONA DIVISION, CITY PLANT H.Q. AND WAREHOUSE
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2032
 NET SALVAGE PERCENT: 0

1983	4,480.47	3,988	3,696	784	5.37	146
1984	27,253.46	24,160	22,393	4,861	5.43	895
1985	1,263.73	1,115	1,033	230	5.48	42
1986	3,203.40	2,823	2,616	587	5.44	108
1989	782,976.60	682,599	632,663	150,314	5.50	27,330
1990	32,673.28	28,439	26,359	6,315	5.42	1,165
1994	11,371.45	9,732	9,020	2,351	5.45	431
1995	368,068.25	313,373	290,448	77,620	5.48	14,164
1997	13,247.67	11,145	10,330	2,918	5.55	526
1998	44,954.56	37,685	34,928	10,026	5.48	1,830
2000	1,442.94	1,193	1,106	337	5.52	61
2002	15,461.18	12,609	11,687	3,775	5.52	684
2003	12,062.57	9,773	9,058	3,005	5.49	547
2004	3,675.14	2,949	2,733	942	5.51	171
2005	6,950.00	5,522	5,118	1,832	5.53	331
2008	147,095.70	113,234	104,950	42,145	5.51	7,649
2009	116,934.87	88,800	82,304	34,631	5.52	6,274
2012	39,427.15	28,533	26,446	12,982	5.50	2,360
2017	124,830.59	78,643	72,890	51,941	5.53	9,393
2019	116,711.39	66,911	62,016	54,695	5.52	9,909
	2,150,621.55	1,778,492	1,648,384	502,238		91,287

WEST DIV OFFICE & GIB CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2030
 NET SALVAGE PERCENT: 0

1960	77,127.48	73,256	67,897	9,231	3.51	2,630
1961	20,070.74	19,037	17,644	2,426	3.55	683
1962	2,612.56	2,474	2,293	320	3.60	89
1970	896.38	845	783	113	3.42	33
1972	1,732.37	1,631	1,512	221	3.40	65
1973	769.29	723	670	99	3.41	29
1974	8,759.09	8,219	7,618	1,141	3.45	331
1975	1,619.95	1,516	1,405	215	3.52	61
1976	928.15	866	803	126	3.60	35
1977	427.04	399	370	57	3.56	16
1978	2,152.16	2,011	1,864	288	3.39	85
1981	7,269.82	6,735	6,242	1,028	3.59	286
1982	7,096.99	6,588	6,106	991	3.43	289
1983	8,103.36	7,494	6,946	1,158	3.53	328
1984	8,548.32	7,905	7,327	1,222	3.45	354
1985	179.77	165	153	27	3.86	7
1986	4,626.77	4,264	3,952	675	3.44	196
1987	16,040.66	14,732	13,654	2,386	3.50	682
1988	17,114.06	15,647	14,502	2,612	3.60	726
1989	148,533.19	135,611	125,690	22,843	3.57	6,399
1993	6,393.47	5,790	5,366	1,027	3.48	295
1994	8,076.67	7,279	6,747	1,330	3.55	375
1995	8,892.56	7,990	7,405	1,487	3.55	419
1997	882.03	786	729	154	3.58	43

WEST DIV OFFICE & GIB CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2030
 NET SALVAGE PERCENT: 0

1998	552,360.93	491,270	455,331	97,030	3.53	27,487
1999	48,150.89	42,642	39,522	8,628	3.54	2,437
2000	12,873.57	11,358	10,527	2,346	3.52	666
2002	35,288.07	30,845	28,589	6,700	3.52	1,903
2003	39,898.68	34,664	32,128	7,771	3.54	2,195
2004	26,632.62	22,984	21,303	5,330	3.56	1,497
2007	9,939.28	8,395	7,781	2,158	3.57	604
2008	92,178.51	77,246	71,595	20,584	3.56	5,782
2009	66,266.41	55,054	51,026	15,240	3.55	4,293
2013	88,745.83	70,127	64,997	23,749	3.56	6,671
2014	46,877.95	36,438	33,772	13,106	3.56	3,681
2017	32,750.00	23,776	22,037	10,713	3.55	3,018
2018	88,282.65	62,045	57,506	30,777	3.56	8,645
2019	103,148.79	69,698	64,599	38,550	3.56	10,829
2020	17,716.37	11,392	10,559	7,158	3.56	2,011
	1,619,963.43	1,379,897	1,278,949	341,014		96,175

HOPEWELL CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1961	239,859.67	224,389	207,973	31,886	4.51	7,070
1962	7,213.52	6,737	6,244	969	4.55	213
1963	1,692.49	1,578	1,463	230	4.60	50
1965	1,097.03	1,024	949	148	4.35	34
1968	723.51	672	623	101	4.39	23
1969	984.98	916	849	136	4.25	32
1971	581.69	538	499	83	4.37	19
1974	9,535.06	8,796	8,153	1,383	4.40	314
1975	9,920.85	9,131	8,463	1,458	4.45	328
1976	1,063.87	976	905	159	4.54	35
1978	939.29	860	797	142	4.44	32
1979	10,738.67	9,827	9,108	1,631	4.40	371
1980	13,487.17	12,271	11,373	2,114	4.60	460
1981	1,293.50	1,175	1,089	204	4.53	45
1982	1,138.72	1,032	957	182	4.55	40
1984	12,521.03	11,313	10,485	2,036	4.53	449
1985	21,310.45	19,241	17,833	3,477	4.45	781
1986	11,112.74	10,016	9,283	1,829	4.43	413
1987	8,570.94	7,703	7,139	1,431	4.44	322
1988	74,173.84	66,393	61,536	12,638	4.50	2,808
1989	378.88	337	312	67	4.47	15
1990	39,513.21	35,111	32,542	6,971	4.57	1,525
1991	17,717.03	15,687	14,539	3,178	4.58	694
1992	13,808.43	12,214	11,320	2,488	4.49	554
1993	10,248.35	9,041	8,380	1,869	4.46	419
1994	10,675.48	9,378	8,692	1,984	4.48	443
1995	11,376.20	9,936	9,209	2,167	4.55	476
1998	70,618.91	61,008	56,545	14,074	4.48	3,142
2000	46,479.64	39,661	36,760	9,720	4.54	2,141

HOPEWELL CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

2001	36,503.82	30,988	28,721	7,783	4.52	1,722
2002	13,837.16	11,656	10,803	3,034	4.57	664
2003	34,041.04	28,537	26,449	7,592	4.52	1,680
2005	54,154.92	44,651	41,384	12,770	4.56	2,800
2006	190,619.30	156,060	144,643	45,976	4.52	10,172
2007	24,500.00	19,838	18,387	6,113	4.56	1,341
2008	11,530.52	9,259	8,582	2,949	4.52	652
2009	14,840.00	11,761	10,901	3,939	4.56	864
2014	12,466.11	9,133	8,465	4,001	4.53	883
2018	219,474.84	142,615	132,182	87,293	4.54	19,228
2019	15,269.00	9,467	8,774	6,495	4.55	1,427
2020	98,227.80	57,483	53,278	44,950	4.55	9,879
2021	68,867.56	37,450	34,710	34,157	4.54	7,524
	1,443,107.22	1,155,859	1,071,300	371,807		82,084

SOUTHERN DIV AND MON CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2027
 NET SALVAGE PERCENT: 0

1947	57,166.96	56,750	52,598	4,569	1.00	4,569
1948	27,660.35	27,547	25,532	2,129	1.00	2,129
1949	1,266.73	1,255	1,163	104	1.00	104
1953	1,917.47	1,900	1,761	156	1.00	156
1954	2,355.29	2,337	2,166	189	1.00	189
1959	65,507.73	64,918	60,169	5,339	1.00	5,339
1960	1,184.13	1,172	1,086	98	1.00	98
1961	5,571.32	5,540	5,135	437	1.00	437
1962	3,383.71	3,357	3,111	272	1.00	272
1964	476.07	472	437	39	1.00	39
1966	1,683.43	1,668	1,546	137	1.00	137
1969	1,559.80	1,540	1,427	132	1.00	132
1971	11,780.11	11,686	10,831	949	1.00	949
1972	6,154.32	6,095	5,649	505	1.00	505
1973	2,390.11	2,362	2,189	201	1.00	201
1975	1,247.81	1,232	1,142	106	1.00	106
1978	2,389.28	2,360	2,187	202	1.00	202
1979	8,709.67	8,590	7,962	748	1.00	748
1981	1,869.15	1,842	1,707	162	1.00	162
1982	11,780.12	11,615	10,765	1,015	1.00	1,015
1983	19,931.83	19,645	18,208	1,724	1.00	1,724
1984	15,807.70	15,623	14,480	1,328	1.00	1,328
1985	109,553.81	107,987	100,087	9,467	1.00	9,467
1986	56,131.64	55,357	51,307	4,824	1.00	4,824
1987	82,066.79	80,869	74,953	7,114	1.00	7,114
1988	21,602.55	21,246	19,692	1,911	1.00	1,911
1989	14,727.43	14,493	13,433	1,295	1.00	1,295
1990	3,194.14	3,140	2,910	284	1.00	284
1992	43,057.95	42,382	39,281	3,776	1.00	3,776
1993	3,763.95	3,698	3,427	336	1.00	336
1994	5,127.23	5,036	4,668	460	1.00	460

SOUTHERN DIV AND MON CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2027
 NET SALVAGE PERCENT: 0

1996	9,452.47	9,287	8,608	845	1.00	845
1997	1,576.21	1,544	1,431	145	1.00	145
1998	64,019.11	62,764	58,172	5,847	1.00	5,847
2000	13,091.82	12,796	11,860	1,232	1.00	1,232
2001	7,576.38	7,413	6,871	706	1.00	706
2002	357,642.37	349,309	323,755	33,888	1.00	33,888
2008	19,439.50	18,831	17,453	1,986	1.00	1,986
2009	28,742.44	27,834	25,798	2,945	1.00	2,945
2019	50,213.87	46,553	43,147	7,067	1.00	7,067
2020	1.00	1	1			
2021	61,020.93	55,102	51,071	9,950	1.00	9,950
	1,203,794.68	1,175,148	1,089,178	114,617		114,619
	24,813,854.42	18,715,213	17,346,074	7,467,780		1,317,780

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.70 5.31

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1886	287.88	282	288		
1889	26.27	25	26		
1890	7.23	7	7		
1892	5.13	5	5		
1894	299.00	282	299		
1895	6.36	6	6		
1896	5,826.87	5,450	5,827		
1897	94.60	88	95		
1898	169.56	157	170		
1899	1,489.47	1,378	1,489		
1900	418,389.82	385,617	418,390		
1901	23,548.36	21,632	23,548		
1902	47,610.02	43,583	47,610		
1903	45,074.20	41,124	45,074		
1904	43,754.85	39,781	43,755		
1905	48,367.53	43,826	48,368		
1906	33,965.00	30,663	33,965		
1907	41,681.20	37,496	41,681		
1908	33,483.02	30,009	33,483		
1909	20,992.29	18,741	20,992		
1910	10,126.83	9,006	10,127		
1911	30,689.61	27,186	30,690		
1912	23,744.20	20,948	23,744		
1913	124,573.36	109,451	124,573		
1914	126,051.28	110,277	126,051		
1915	29,128.82	25,378	29,129		
1916	49,030.26	42,527	49,030		
1917	34,145.88	29,489	34,085	61	10.17
1918	42,010.45	36,117	41,746	264	10.15
1919	30,913.30	26,457	30,580	333	10.41
1920	907.34	773	893	14	14.00
1921	36,809.50	31,212	36,076	734	10.96
1922	39,835.84	33,611	38,849	987	11.22
1923	58,825.05	49,397	57,095	1,730	11.53
1924	98,829.35	82,578	95,448	3,381	11.82
1925	187,715.88	156,065	180,388	7,328	12.13
1926	139,088.19	115,057	132,989	6,099	12.45
1927	128,385.56	105,669	122,137	6,249	12.73
1928	152,199.14	124,613	144,034	8,165	13.04
1929	122,751.12	99,957	115,535	7,216	13.36
1930	108,979.83	88,274	102,031	6,949	13.68
1931	116,104.94	93,529	108,105	8,000	14.01
1932	92,930.77	74,435	86,036	6,895	14.33
1933	34,806.35	27,719	32,039	2,767	14.64
1934	23,591.88	18,680	21,591	2,001	15.05
1935	42,627.74	33,551	38,780	3,848	15.33
1936	53,432.53	41,796	48,310	5,123	15.67
1937	180,042.44	139,958	161,770	18,272	16.03
1938	118,199.80	91,309	105,539	12,661	16.38
1939	196,568.11	150,866	174,378	22,190	16.73
1940	275,590.60	210,099	242,843	32,748	17.11
1941	209,141.30	158,337	183,014	26,127	17.49
1942	120,591.26	90,662	104,792	15,799	17.87
1943	38,863.45	29,013	33,535	5,328	18.25

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1944	73,171.74	54,228	62,679	10,493	18.64	563
1945	52,564.36	38,664	44,690	7,874	19.02	414
1946	208,125.36	151,902	175,576	32,549	19.46	1,673
1947	187,219.39	135,579	156,709	30,510	19.86	1,536
1948	99,742.32	71,648	82,814	16,928	20.27	835
1949	512,021.01	364,743	421,588	90,433	20.71	4,367
1950	704,865.34	497,910	575,509	129,356	21.14	6,119
1951	782,040.80	547,648	632,999	149,042	21.58	6,906
1952	1,237,761.77	859,044	992,926	244,836	22.03	11,114
1953	1,310,971.26	901,476	1,041,971	269,000	22.49	11,961
1954	758,842.97	516,962	597,530	161,313	22.95	7,029
1955	1,049,193.08	707,912	818,240	230,953	23.42	9,861
1956	1,462,498.93	977,037	1,129,308	333,191	23.90	13,941
1957	1,100,373.78	727,776	841,199	259,175	24.38	10,631
1958	1,384,048.86	905,971	1,047,166	336,883	24.87	13,546
1959	1,159,405.99	750,878	867,902	291,504	25.37	11,490
1960	1,110,831.35	711,554	822,449	288,382	25.88	11,143
1961	1,383,241.35	876,242	1,012,804	370,437	26.39	14,037
1962	1,379,594.82	863,778	998,397	381,198	26.92	14,160
1963	1,620,086.87	1,002,656	1,158,919	461,168	27.44	16,806
1964	1,690,695.24	1,033,674	1,194,772	495,923	27.98	17,724
1965	1,902,844.87	1,149,109	1,328,197	574,648	28.52	20,149
1966	2,204,409.89	1,314,379	1,519,224	685,186	29.07	23,570
1967	2,280,836.64	1,342,204	1,551,386	729,451	29.63	24,619
1968	2,658,283.95	1,543,639	1,784,214	874,070	30.19	28,952
1969	2,354,129.88	1,348,399	1,558,546	795,584	30.76	25,864
1970	2,347,290.56	1,325,562	1,532,150	815,141	31.34	26,010
1971	3,162,695.30	1,760,578	2,034,963	1,127,732	31.92	35,330
1972	3,548,205.64	1,946,084	2,249,380	1,298,826	32.51	39,952
1973	4,209,529.15	2,273,735	2,628,095	1,581,434	33.11	47,763
1974	4,185,917.98	2,226,113	2,573,051	1,612,867	33.71	47,845
1975	2,355,859.20	1,232,892	1,425,038	930,821	34.32	27,122
1976	2,171,743.65	1,118,144	1,292,406	879,338	34.93	25,174
1977	4,421,977.38	2,238,007	2,586,799	1,835,178	35.56	51,608
1978	3,774,015.75	1,877,573	2,170,192	1,603,824	36.18	44,329
1979	4,498,161.98	2,197,847	2,540,380	1,957,782	36.82	53,172
1980	5,370,988.47	2,576,571	2,978,128	2,392,860	37.46	63,878
1981	6,387,581.93	3,007,465	3,476,177	2,911,405	38.10	76,415
1982	5,608,557.65	2,590,088	2,993,752	2,614,806	38.75	67,479
1983	4,362,749.00	2,462,336	2,846,090	1,516,659	33.51	45,260
1984	6,206,285.18	3,448,833	3,986,332	2,219,953	33.92	65,447
1985	6,701,269.26	3,663,584	4,234,551	2,466,718	34.34	71,832
1986	6,272,971.90	3,371,722	3,897,203	2,375,769	34.77	68,328
1987	8,764,888.28	4,629,614	5,351,137	3,413,751	35.21	96,954
1988	5,703,351.11	2,936,085	3,393,672	2,309,679	36.21	63,786
1989	7,316,957.26	3,695,795	4,271,783	3,045,174	36.66	83,065
1990	7,953,584.02	3,939,410	4,553,365	3,400,219	37.11	91,625
1991	7,611,220.99	3,692,964	4,268,510	3,342,711	37.58	88,949
1992	10,852,421.56	5,154,900	5,958,288	4,894,134	38.04	128,658
1993	9,594,537.95	4,456,663	5,151,231	4,443,307	38.53	115,321
1994	10,426,933.45	4,731,742	5,469,181	4,957,752	39.01	127,089
1995	9,226,690.24	4,087,424	4,724,447	4,502,243	39.50	113,981
1996	7,454,356.79	3,219,537	3,721,300	3,733,057	40.01	93,303
1997	7,758,327.20	3,263,928	3,772,609	3,985,718	40.51	98,388
1998	5,563,259.12	2,292,063	2,649,280	2,913,979	40.55	71,861

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1999	7,740,261.30	3,098,427	3,581,315	4,158,946	41.08	101,240
2000	7,363,005.05	2,859,055	3,304,637	4,058,368	41.61	97,533
2001	7,746,087.53	2,914,078	3,368,235	4,377,853	42.15	103,864
2002	10,979,404.81	3,994,307	4,616,818	6,362,587	42.70	149,007
2003	12,857,488.47	4,546,408	5,254,963	7,602,525	42.81	177,588
2004	15,018,867.68	5,116,928	5,914,398	9,104,470	43.38	209,877
2005	18,775,474.00	6,152,723	7,111,621	11,663,853	43.94	265,450
2006	15,346,451.79	4,857,152	5,614,136	9,732,316	44.10	220,687
2007	11,782,496.16	3,568,918	4,125,132	7,657,364	44.69	171,344
2008	11,811,554.36	3,437,162	3,972,842	7,838,712	44.87	174,698
2009	13,355,742.39	3,698,205	4,274,568	9,081,174	45.48	199,674
2010	12,712,920.75	3,360,025	3,883,683	8,829,238	45.70	193,200
2011	18,681,555.40	4,694,675	5,426,338	13,255,217	45.93	288,596
2012	47,824,702.17	11,377,497	13,150,674	34,674,028	46.19	750,683
2013	26,065,956.28	5,841,381	6,751,757	19,314,199	46.46	415,717
2014	30,310,871.72	6,359,221	7,350,302	22,960,570	46.76	491,030
2015	35,497,961.12	6,929,202	8,009,114	27,488,847	47.06	584,123
2016	34,203,943.56	6,197,755	7,163,672	27,040,272	47.06	574,591
2017	55,447,732.81	9,187,689	10,619,585	44,828,148	47.40	945,742
2018	79,465,035.05	11,975,381	13,841,737	65,623,298	47.45	1,382,999
2019	66,015,474.79	8,958,300	10,354,446	55,661,029	47.23	1,178,510
2020	73,096,147.04	8,727,680	10,087,884	63,008,263	47.34	1,330,973
2021	136,924,145.72	14,171,649	16,380,293	120,543,853	46.94	2,568,041
2022	159,412,415.94	13,805,115	15,956,635	143,455,781	46.60	3,078,450
2023	216,322,993.74	14,926,287	17,252,540	199,070,454	46.09	4,319,168
2024	262,659,513.95	13,395,635	15,483,337	247,176,177	44.98	5,495,246
2025	227,022,891.88	7,242,030	8,370,697	218,652,195	43.03	5,081,390
2026	253,338,245.19	5,497,440	6,354,213	246,984,032	41.28	5,983,140
2,076,101,781.04		304,886,744	352,353,816	1,723,747,965		38,885,185

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 44.30 1.87

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1875	237.67	238	238			
1876	21.68	22	22			
1885	1,434.10	1,412	1,224	210	1.09	193
1888	7,584.87	7,365	6,385	1,200	2.09	574
1889	15,859.26	15,326	13,286	2,573	2.42	1,063
1890	38.61	37	32	7	2.33	3
1891	26,707.73	25,558	22,156	4,552	3.10	1,468
1893	36.82	35	30	7	3.50	2
1894	800.80	755	655	146	4.06	36
1896	6,711.91	6,278	5,442	1,270	4.65	273
1897	1,453.95	1,355	1,175	279	4.89	57
1898	90.05	84	73	17	5.67	3
1899	7,975.37	7,376	6,394	1,581	5.41	292
1900	181,849.13	167,605	145,299	36,550	5.64	6,480
1901	14,409.46	13,237	11,475	2,934	5.86	501
1902	44,859.27	41,065	35,600	9,259	6.09	1,520
1903	31,748.47	28,966	25,111	6,637	6.31	1,052
1904	15,873.25	14,431	12,510	3,363	6.54	514
1905	14,002.47	12,688	10,999	3,003	6.76	444
1906	19,759.46	17,838	15,464	4,295	7.00	614
1907	3,528.22	3,174	2,752	776	7.25	107
1908	47,975.98	42,998	37,275	10,701	7.47	1,433
1909	11,622.15	10,376	8,995	2,627	7.73	340
1910	7,629.42	6,785	5,882	1,747	7.98	219
1911	13,617.20	12,063	10,458	3,159	8.23	384
1912	6,071.48	5,356	4,643	1,428	8.50	168
1913	7,763.62	6,821	5,913	1,851	8.73	212
1914	8,755.43	7,660	6,641	2,114	9.00	235
1915	17,609.19	15,342	13,300	4,309	9.27	465
1916	8,135.33	7,056	6,117	2,018	9.56	211
1917	11,942.18	10,313	8,940	3,002	9.81	306
1918	9,121.17	7,842	6,798	2,323	10.10	230
1919	4,169.62	3,568	3,093	1,077	10.36	104
1920	2,174.44	1,852	1,606	568	10.72	53
1921	29,376.44	24,909	21,594	7,782	10.95	711
1922	9,788.18	8,259	7,160	2,628	11.23	234
1923	26,904.17	22,592	19,585	7,319	11.54	634
1924	22,816.02	19,064	16,527	6,289	11.84	531
1925	20,845.61	17,331	15,024	5,822	12.13	480
1926	14,384.85	11,899	10,315	4,070	12.45	327
1927	49,646.34	40,862	35,424	14,222	12.74	1,116
1928	24,522.21	20,078	17,406	7,116	13.06	545
1929	30,157.44	24,558	21,290	8,867	13.37	663
1930	68,982.86	55,876	48,439	20,544	13.68	1,502
1931	44,970.34	36,226	31,405	13,565	14.00	969
1932	25,647.91	20,543	17,809	7,839	14.33	547
1933	17,927.19	14,277	12,377	5,550	14.64	379
1934	10,030.66	7,942	6,885	3,146	14.98	210
1935	19,565.98	15,400	13,350	6,216	15.35	405
1936	16,687.57	13,053	11,316	5,372	15.66	343
1937	55,302.61	42,990	37,268	18,035	16.03	1,125
1938	57,670.34	44,550	38,621	19,049	16.38	1,163
1939	47,304.83	36,306	31,474	15,831	16.73	946
1940	113,254.83	86,341	74,850	38,405	17.11	2,245

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1941	276,338.10	209,210	181,366	94,972	17.49	5,430
1942	101,051.37	75,971	65,860	35,191	17.87	1,969
1943	40,015.40	29,873	25,897	14,118	18.24	774
1944	70,592.11	52,317	45,354	25,238	18.64	1,354
1945	62,679.93	46,105	39,969	22,711	19.04	1,193
1946	137,848.62	100,610	87,220	50,629	19.45	2,603
1947	149,039.84	107,930	93,566	55,474	19.86	2,793
1948	125,120.56	89,878	77,916	47,205	20.28	2,328
1949	315,284.50	224,596	194,705	120,580	20.71	5,822
1950	307,127.63	216,952	188,078	119,050	21.14	5,632
1951	1,049,581.08	735,001	637,180	412,401	21.58	19,110
1952	705,046.44	489,323	424,199	280,847	22.03	12,748
1953	836,254.79	575,042	498,510	337,745	22.49	15,018
1954	417,694.13	284,554	246,683	171,011	22.95	7,451
1955	1,020,712.14	688,695	597,037	423,675	23.42	18,090
1956	811,282.72	541,986	469,853	341,430	23.90	14,286
1957	1,299,833.71	859,697	745,280	554,554	24.38	22,746
1958	2,147,828.81	1,405,926	1,218,812	929,017	24.87	37,355
1959	3,068,547.08	1,987,314	1,722,823	1,345,724	25.37	53,044
1960	2,277,085.26	1,458,610	1,264,484	1,012,601	25.88	39,127
1961	3,119,890.27	1,976,357	1,713,325	1,406,565	26.39	53,299
1962	2,495,949.74	1,562,739	1,354,755	1,141,195	26.92	42,392
1963	2,301,324.78	1,424,267	1,234,712	1,066,613	27.44	38,871
1964	2,496,692.66	1,526,453	1,323,298	1,173,395	27.98	41,937
1965	2,946,380.80	1,779,290	1,542,485	1,403,896	28.52	49,225
1966	3,518,569.46	2,097,947	1,818,732	1,699,837	29.07	58,474
1967	3,951,973.42	2,325,618	2,016,103	1,935,870	29.63	65,335
1968	4,416,907.54	2,564,854	2,223,499	2,193,409	30.19	72,653
1969	3,772,631.07	2,160,888	1,873,297	1,899,334	30.76	61,747
1970	2,937,779.41	1,659,023	1,438,225	1,499,554	31.34	47,848
1971	4,492,322.92	2,500,741	2,167,919	2,324,404	31.92	72,820
1972	6,677,698.67	3,662,517	3,175,075	3,502,624	32.51	107,740
1973	7,801,542.66	4,213,925	3,653,096	4,148,447	33.11	125,293
1974	6,213,811.31	3,304,567	2,864,764	3,349,047	33.71	99,349
1975	3,350,791.85	1,753,570	1,520,188	1,830,604	34.32	53,339
1976	2,843,255.32	1,463,878	1,269,051	1,574,204	34.93	45,067
1977	5,038,540.20	2,550,056	2,210,670	2,827,870	35.56	79,524
1978	3,774,856.13	1,877,991	1,628,050	2,146,806	36.18	59,337
1979	7,911,328.77	3,865,554	3,351,089	4,560,240	36.82	123,852
1980	10,118,594.59	4,854,092	4,208,063	5,910,532	37.46	157,782
1981	14,406,066.63	6,782,808	5,880,088	8,525,979	38.10	223,779
1982	9,171,816.90	4,235,637	3,671,918	5,499,899	38.75	141,933
1983	6,839,703.73	3,860,329	3,346,560	3,493,144	33.51	104,242
1984	8,919,357.26	4,956,487	4,296,831	4,622,526	33.92	136,277
1985	17,173,331.55	9,388,660	8,139,128	9,034,204	34.34	263,081
1986	11,754,985.87	6,318,305	5,477,405	6,277,581	34.77	180,546
1987	17,738,731.58	9,369,598	8,122,603	9,616,129	35.21	273,108
1988	12,299,284.93	6,331,672	5,488,993	6,810,292	36.21	188,078
1989	14,381,928.55	7,264,312	6,297,509	8,084,420	36.66	220,524
1990	16,994,520.97	8,417,386	7,297,121	9,697,400	37.11	261,315
1991	15,921,329.78	7,725,029	6,696,909	9,224,421	37.58	245,461
1992	17,693,164.19	8,404,253	7,285,735	10,407,429	38.04	273,592
1993	12,856,091.22	5,971,654	5,176,890	7,679,201	38.53	199,304
1994	13,529,657.03	6,139,758	5,322,621	8,207,036	39.01	210,383
1995	15,437,360.57	6,838,751	5,928,585	9,508,776	39.50	240,729

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1996	10,843,567.70	4,683,337	4,060,034	6,783,534	40.01	169,546
1997	11,412,087.72	4,801,065	4,162,094	7,249,994	40.51	178,968
1998	10,566,421.19	4,353,366	3,773,979	6,792,442	40.55	167,508
1999	11,204,643.45	4,485,219	3,888,284	7,316,359	41.08	178,100
2000	9,767,152.49	3,792,585	3,287,832	6,479,320	41.61	155,715
2001	18,109,097.14	6,812,642	5,905,951	12,203,146	42.15	289,517
2002	23,341,045.55	8,491,472	7,361,347	15,979,699	42.70	374,232
2003	20,173,655.88	7,133,405	6,184,024	13,989,632	42.81	326,784
2004	22,512,103.88	7,669,874	6,649,095	15,863,009	43.38	365,676
2005	24,941,292.27	8,173,261	7,085,486	17,855,806	43.94	406,368
2006	21,095,477.89	6,676,719	5,788,118	15,307,360	44.10	347,106
2007	20,724,178.06	6,277,354	5,441,904	15,282,274	44.69	341,962
2008	16,763,880.52	4,878,289	4,229,040	12,534,841	44.87	279,359
2009	16,874,526.91	4,672,557	4,050,689	12,823,838	45.48	281,967
2010	18,998,709.99	5,021,359	4,353,069	14,645,641	45.70	320,474
2011	14,551,229.09	3,656,724	3,170,053	11,381,176	45.93	247,794
2012	20,453,236.33	4,865,825	4,218,235	16,235,001	46.19	351,483
2013	20,348,842.60	4,560,176	3,953,265	16,395,578	46.46	352,897
2014	17,712,201.21	3,716,020	3,221,457	14,490,744	46.76	309,896
2015	19,265,582.33	3,760,642	3,260,140	16,005,442	47.06	340,107
2016	34,056,885.87	6,171,108	5,349,798	28,707,088	47.06	610,010
2017	41,309,579.90	6,844,997	5,934,000	35,375,580	47.40	746,320
2018	69,481,239.01	10,470,823	9,077,267	60,403,972	47.45	1,273,003
2019	71,554,094.46	9,709,891	8,417,607	63,136,487	47.23	1,336,788
2020	70,680,140.04	8,439,209	7,316,039	63,364,101	47.34	1,338,490
2021	95,199,766.92	9,853,176	8,541,822	86,657,945	46.94	1,846,143
2022	124,968,344.02	10,822,259	9,381,930	115,586,414	46.60	2,480,395
2023	179,232,847.67	12,367,066	10,721,139	168,511,709	46.09	3,656,145
2024	152,204,885.59	7,762,449	6,729,349	145,475,537	44.98	3,234,227
2025	111,037,796.68	3,542,106	3,070,689	107,967,108	43.03	2,509,112
2026	202,211,917.24	4,387,999	3,804,002	198,407,915	41.28	4,806,393
	1,813,370,922.29	361,227,463	313,151,924	1,500,218,998		34,544,225

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 43.40 1.90

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

1891	38.30	38	38			
1904	263.80	264	264			
1906	26.54	27	27			
1907	149.70	150	150			
1908	57.73	58	58			
1909	83.31	83	83			
1910	20.23	20	20			
1913	99.11	99	99			
1914	21.87	22	22			
1915	92.19	92	92			
1916	22.15	22	22			
1918	131.41	130	131			
1920	45.73	45	46			
1922	0.66	1	1			
1923	30.50	29	30			
1927	9.77	9	10			
1931	105.89	97	106			
1932	16.80	15	17			
1933	148.35	135	148			
1934	97.94	89	98			
1938	6.13	5	6			
1940	35.53	31	36			
1941	1.85	2	2			
1942	44.02	38	44			
1944	8.82	8	9			
1946	787.39	667	770	17	8.50	2
1947	1,706.76	1,437	1,659	48	8.00	6
1948	2,927.40	2,449	2,828	99	9.00	11
1949	12,676.40	10,535	12,164	512	9.31	55
1950	17,831.96	14,723	16,999	833	9.57	87
1951	44,284.63	36,313	41,927	2,358	9.91	238
1952	72,873.34	59,345	68,520	4,353	10.22	426
1953	118,804.09	96,059	110,910	7,894	10.53	750
1954	33,383.68	26,798	30,941	2,443	10.86	225
1955	90,723.86	72,282	83,457	7,267	11.18	650
1956	55,110.04	43,577	50,314	4,796	11.50	417
1957	59,678.66	46,810	54,047	5,632	11.86	475
1958	165,207.13	128,561	148,436	16,771	12.20	1,375
1959	73,611.72	56,802	65,583	8,029	12.56	639
1960	55,263.95	42,282	48,819	6,445	12.92	499
1961	77,917.14	59,089	68,224	9,693	13.30	729
1962	92,194.63	69,280	79,991	12,204	13.67	893
1963	96,303.00	71,684	82,766	13,537	14.06	963
1964	55,161.21	40,659	46,945	8,216	14.46	568
1965	77,477.16	56,544	65,286	12,191	14.87	820
1966	65,577.30	47,359	54,681	10,896	15.28	713
1967	97,462.43	69,642	80,408	17,054	15.70	1,086
1968	187,662.33	132,627	153,131	34,531	16.13	2,141
1969	129,709.70	90,632	104,643	25,067	16.57	1,513
1970	113,734.58	78,539	90,681	23,054	17.01	1,355
1971	148,575.80	101,329	116,994	31,582	17.49	1,806
1972	278,898.13	187,824	216,861	62,037	17.96	3,454
1973	226,346.32	150,459	173,720	52,626	18.44	2,854
1974	263,185.97	172,603	199,287	63,899	18.93	3,376

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

1975	278,903.86	180,426	208,319	70,585	19.42	3,635
1976	517,468.63	329,959	380,970	136,499	19.93	6,849
1977	272,327.19	171,070	197,517	74,810	20.45	3,658
1978	411,900.39	254,781	294,170	117,730	20.98	5,612
1979	415,124.85	252,699	291,766	123,359	21.52	5,732
1980	419,461.95	251,220	290,058	129,404	22.06	5,866
1981	1,480,495.26	871,612	1,006,361	474,134	22.62	20,961
1982	1,074,390.59	621,589	717,685	356,706	23.18	15,389
1983	872,514.82	590,954	682,314	190,201	20.69	9,193
1984	893,825.49	595,198	687,214	206,611	21.28	9,709
1985	1,192,549.83	780,405	901,054	291,496	21.87	13,329
1986	1,032,072.08	667,441	770,626	261,446	22.08	11,841
1987	1,043,439.15	662,166	764,535	278,904	22.70	12,287
1988	1,029,592.74	644,731	744,405	285,188	22.93	12,437
1989	1,079,552.54	662,413	764,821	314,732	23.56	13,359
1990	1,040,929.12	625,494	722,194	318,735	24.19	13,176
1991	1,600,450.63	946,667	1,093,020	507,431	24.46	20,745
1992	1,214,106.94	701,997	810,524	403,583	25.11	16,073
1993	926,621.31	526,414	607,796	318,825	25.41	12,547
1994	1,169,820.85	648,432	748,678	421,143	26.06	16,161
1995	994,230.67	540,364	623,903	370,328	26.39	14,033
1996	381,085.34	201,670	232,848	148,237	27.06	5,478
1997	948,941.98	491,267	567,216	381,726	27.40	13,932
1998	552,447.15	277,881	320,841	231,606	28.08	8,248
1999	687,593.48	337,471	389,643	297,950	28.45	10,473
2000	821,025.20	392,532	453,217	367,808	28.83	12,758
2001	1,929,561.39	892,615	1,030,611	898,950	29.53	30,442
2002	1,330,163.78	597,643	690,037	640,127	29.93	21,387
2003	1,225,563.95	533,856	616,389	609,175	30.34	20,078
2004	1,060,630.76	446,950	516,047	544,584	30.78	17,693
2005	1,410,306.07	573,854	662,571	747,735	31.22	23,951
2006	3,594,282.53	1,408,959	1,626,781	1,967,502	31.67	62,125
2007	1,433,275.82	539,915	623,385	809,891	32.13	25,207
2008	4,750,724.30	1,715,011	1,980,148	2,770,576	32.60	84,987
2009	3,285,945.91	1,132,994	1,308,152	1,977,794	33.09	59,770
2010	913,895.08	300,032	346,416	567,479	33.58	16,899
2011	2,201,136.26	688,956	795,467	1,405,669	33.84	41,539
2012	839,021.38	249,189	287,713	551,308	34.13	16,153
2013	2,735,967.84	763,609	881,661	1,854,307	34.66	53,500
2014	1,258,933.58	329,841	380,834	878,100	34.98	25,103
2015	2,414,049.30	589,752	680,926	1,733,123	35.31	49,083
2016	1,276,870.24	289,977	334,807	942,063	35.45	26,574
2017	6,368,929.11	1,325,374	1,530,274	4,838,655	35.83	135,045
2018	1,267,942.17	240,148	277,274	990,668	36.03	27,496
2019	1,757,937.77	299,904	346,268	1,411,670	36.06	39,148
2020	2,646,263.53	399,057	460,750	2,185,514	36.14	60,474
2021	7,753,157.47	1,011,787	1,168,207	6,584,950	36.08	182,510
2022	8,088,493.92	882,455	1,018,880	7,069,614	36.07	195,997
2023	18,013,656.48	1,576,195	1,819,871	16,193,785	35.64	454,371
2024	10,438,416.78	676,409	780,980	9,657,437	34.90	276,717
2025	12,436,517.56	503,679	581,547	11,854,971	33.55	353,352
2026	33,821,920.93	933,485	1,077,800	32,744,121	32.31	1,013,436
	159,321,070.99	34,096,918	39,368,042	119,953,029		3,634,644

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.00 2.28

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1900	15.01	15	15			
1901	1,628.86	1,629	1,629			
1902	397.62	398	398			
1903	539.87	540	540			
1904	938.76	939	939			
1905	3,992.02	3,992	3,992			
1906	3,804.43	3,804	3,804			
1907	4,111.86	4,112	4,112			
1908	2,969.07	2,969	2,969			
1909	341.84	342	342			
1920	889.92	890	890			
1921	2,086.45	2,086	2,086			
1922	2,044.44	2,044	2,044			
1923	1,561.49	1,561	1,561			
1924	1,425.42	1,425	1,425			
1925	1,552.66	1,547	1,553			
1926	2,928.64	2,905	2,929			
1927	2,467.37	2,436	2,467			
1928	2,954.90	2,903	2,955			
1929	2,656.99	2,598	2,657			
1930	3,488.22	3,394	3,488			
1931	2,292.85	2,220	2,293			
1932	2,222.98	2,141	2,223			
1933	1,732.94	1,661	1,733			
1934	1,388.77	1,324	1,389			
1935	1,667.20	1,581	1,667			
1936	2,871.21	2,708	2,871			
1937	3,027.54	2,840	3,028			
1938	1,586.03	1,479	1,586			
1939	4,428.49	4,107	4,428			
1940	6,251.95	5,765	6,252			
1941	12,825.84	11,762	12,826			
1942	9,435.22	8,603	9,435			
1943	4,294.00	3,893	4,294			
1944	7,128.13	6,423	7,128			
1945	3,821.29	3,423	3,821			
1946	15,143.39	13,486	15,078	65	5.91	11
1947	23,914.93	21,171	23,670	245	6.28	39
1948	34,778.07	30,598	34,209	569	6.62	86
1949	36,070.37	31,545	35,268	802	6.91	116
1950	33,789.51	29,366	32,832	958	7.20	133
1951	39,537.55	34,139	38,168	1,370	7.53	182
1952	42,262.04	36,261	40,541	1,721	7.82	220
1953	58,555.14	49,910	55,801	2,754	8.12	339
1954	94,772.14	80,229	89,698	5,074	8.44	601
1955	118,484.83	99,614	111,371	7,114	8.76	812
1956	162,557.53	135,721	151,740	10,818	9.08	1,191
1957	199,584.07	165,401	184,923	14,661	9.42	1,556
1958	254,409.78	209,265	233,964	20,446	9.76	2,095
1959	365,505.80	298,319	333,529	31,977	10.11	3,163
1960	400,338.53	324,202	362,467	37,872	10.46	3,621
1961	570,757.91	458,370	512,471	58,287	10.83	5,382
1962	480,465.65	382,624	427,785	52,681	11.20	4,704
1963	819,294.34	646,644	722,967	96,327	11.59	8,311

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1964	829,112.24	648,515	725,059	104,053	11.98	8,686
1965	1,010,517.63	783,060	875,484	135,034	12.38	10,907
1966	1,025,342.34	786,714	879,570	145,772	12.80	11,388
1967	800,923.28	608,413	680,224	120,699	13.22	9,130
1968	1,177,811.83	885,502	990,017	187,795	13.65	13,758
1969	1,154,952.28	858,869	960,241	194,711	14.10	13,809
1970	1,443,029.96	1,061,276	1,186,538	256,492	14.55	17,628
1971	1,393,618.45	1,013,035	1,132,603	261,015	15.02	17,378
1972	2,098,450.93	1,507,443	1,685,366	413,085	15.49	26,668
1973	2,619,515.59	1,858,415	2,077,763	541,753	15.98	33,902
1974	2,664,260.84	1,865,942	2,086,178	578,083	16.48	35,078
1975	2,656,916.74	1,836,169	2,052,891	604,026	16.99	35,552
1976	3,534,620.45	2,409,339	2,693,712	840,908	17.51	48,024
1977	3,441,729.07	2,312,842	2,585,826	855,903	18.04	47,445
1978	7,017,494.34	4,646,844	5,195,309	1,822,185	18.58	98,072
1979	6,299,889.98	4,108,662	4,593,606	1,706,284	19.13	89,194
1980	7,067,690.69	4,536,185	5,071,589	1,996,102	19.70	101,325
1981	11,607,575.84	7,329,604	8,194,714	3,412,862	20.27	168,370
1982	9,484,745.88	5,889,174	6,584,271	2,900,475	20.85	139,112
1983	6,236,490.81	4,332,490	4,843,852	1,392,639	19.08	72,989
1984	11,701,918.70	7,991,240	8,934,443	2,767,476	19.70	140,481
1985	11,860,729.06	8,007,178	8,952,262	2,908,467	19.93	145,934
1986	5,459,773.04	3,618,738	4,045,856	1,413,917	20.56	68,770
1987	17,469,963.00	11,362,464	12,703,571	4,766,392	21.19	224,936
1988	10,488,959.77	6,729,717	7,524,023	2,964,937	21.46	138,161
1989	6,494,701.49	4,082,569	4,564,433	1,930,268	22.11	87,303
1990	13,993,844.46	8,611,812	9,628,261	4,365,583	22.76	191,809
1991	10,813,969.85	6,548,940	7,321,909	3,492,061	23.06	151,434
1992	17,355,600.82	10,274,516	11,487,213	5,868,388	23.72	247,403
1993	12,417,064.14	7,219,281	8,071,370	4,345,694	24.06	180,619
1994	14,901,058.85	8,453,371	9,451,119	5,449,940	24.73	220,378
1995	13,285,485.83	7,345,545	8,212,537	5,072,949	25.40	199,722
1996	11,720,165.05	6,345,297	7,094,230	4,625,935	25.76	179,578
1997	18,239,429.56	9,604,884	10,738,545	7,500,885	26.45	283,587
1998	9,060,163.82	4,659,642	5,209,618	3,850,546	26.83	143,516
1999	13,243,487.24	6,608,500	7,388,499	5,854,988	27.53	212,677
2000	5,762,769.97	2,801,282	3,131,916	2,630,854	27.93	94,195
2001	14,742,039.93	6,931,707	7,749,854	6,992,186	28.64	244,141
2002	12,086,663.64	5,518,771	6,170,149	5,916,515	29.06	203,597
2003	13,116,690.18	5,773,967	6,455,466	6,661,224	29.78	223,681
2004	17,463,908.99	7,437,879	8,315,769	9,148,140	30.22	302,718
2005	15,928,405.41	6,516,311	7,285,429	8,642,976	30.94	279,346
2006	14,469,088.51	5,700,821	6,373,687	8,095,402	31.40	257,815
2007	10,796,251.41	4,087,461	4,569,902	6,226,349	31.87	195,367
2008	11,442,239.20	4,130,648	4,618,187	6,824,052	32.60	209,327
2009	11,625,749.51	4,008,558	4,481,687	7,144,063	33.09	215,898
2010	6,359,589.64	2,087,853	2,334,281	4,025,309	33.58	119,872
2011	14,651,622.71	4,562,515	5,101,027	9,550,596	34.09	280,158
2012	18,472,964.33	5,432,899	6,074,142	12,398,822	34.60	358,347
2013	12,687,714.03	3,506,884	3,920,800	8,766,914	35.13	249,556
2014	18,235,159.10	4,710,142	5,266,078	12,969,081	35.66	363,687
2015	21,587,058.89	5,176,577	5,787,566	15,799,493	36.20	436,450
2016	22,741,339.91	5,021,288	5,613,949	17,127,391	36.75	466,051
2017	24,275,990.00	4,915,888	5,496,108	18,779,882	37.09	506,333
2018	41,179,369.34	7,519,353	8,406,859	32,772,510	37.67	869,990

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

2019	37,403,001.94	6,104,170	6,824,643	30,578,359	38.04	803,848
2020	39,272,833.26	5,619,942	6,283,262	32,989,571	38.43	858,433
2021	44,525,077.82	5,476,585	6,122,984	38,402,094	38.63	994,100
2022	32,098,790.75	3,274,077	3,660,515	28,438,276	38.87	731,625
2023	64,988,343.79	5,238,061	5,856,307	59,132,037	38.96	1,517,763
2024	59,447,308.54	3,489,557	3,901,428	55,545,881	38.74	1,433,812
2025	57,584,618.39	2,061,529	2,304,851	55,279,767	38.11	1,450,532
2026	96,334,688.89	2,312,033	2,584,921	93,749,768	37.25	2,516,772
	1,015,208,273.79	299,308,269	334,628,720	680,579,554		20,030,699

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 34.00 1.97

SURVIVOR CURVE: IOWA 32-S0.5
NET SALVAGE PERCENT: 0

1957	14.80	15	15			
1966	15.03	14	10	5	1.25	4
1968	1,496.75	1,406	1,031	466	1.95	239
1969	15,120.32	14,038	10,295	4,825	2.29	2,107
1970	35,722.91	32,798	24,052	11,671	2.62	4,455
1971	93,773.06	85,099	62,407	31,366	2.96	10,597
1972	218,858.06	196,357	143,998	74,860	3.29	22,754
1973	138,003.20	122,348	89,723	48,280	3.63	13,300
1974	99,880.59	87,520	64,182	35,699	3.96	9,015
1975	164,848.08	142,696	104,646	60,202	4.30	14,000
1976	60,012.42	51,311	37,629	22,383	4.64	4,824
1977	83,658.32	70,665	51,822	31,836	4.97	6,406
1978	131,006.69	109,227	80,101	50,906	5.32	9,569
1979	163,232.04	134,360	98,532	64,700	5.66	11,431
1980	161,087.82	130,834	95,947	65,141	6.01	10,839
1981	19,155.19	15,348	11,255	7,900	6.36	1,242
1982	181,866.70	143,731	105,405	76,462	6.71	11,395
1983	15,564.23	13,514	9,910	5,654	6.58	859
1984	56,621.93	48,757	35,756	20,866	6.84	3,051
1985	262,791.06	224,213	164,426	98,365	7.13	13,796
1986	174,666.16	147,541	108,199	66,467	7.43	8,946
1987	246,207.75	205,731	150,872	95,336	7.75	12,301
1988	196,618.81	162,407	119,101	77,518	8.09	9,582
1989	223,755.03	182,517	133,848	89,907	8.45	10,640
1990	266,092.72	214,151	157,047	109,046	8.83	12,349
1991	265,733.38	211,763	155,296	110,437	9.03	12,230
1992	156,728.19	122,985	90,191	66,537	9.44	7,048
1993	502,742.61	389,776	285,841	216,902	9.69	22,384
1994	489,360.22	372,795	273,388	215,972	10.14	21,299
1995	241,306.95	181,197	132,880	108,427	10.42	10,406
1996	412,214.27	304,668	223,427	188,787	10.74	17,578
1997	1,006,172.78	731,085	536,138	470,035	11.07	42,460
1998	980,247.78	699,211	512,764	467,484	11.42	40,936
1999	510,316.95	356,763	261,631	248,686	11.80	21,075
2000	804,395.36	552,459	405,144	399,251	12.05	33,133
2001	1,854,841.15	1,244,598	912,721	942,120	12.46	75,612
2002	1,787,375.99	1,173,949	860,911	926,465	12.76	72,607
2003	1,489,580.52	955,715	700,870	788,711	13.08	60,299
2004	1,483,586.67	927,835	680,424	803,163	13.43	59,804
2005	1,578,202.17	959,863	703,912	874,290	13.80	63,354
2006	1,936,065.14	1,142,278	837,685	1,098,380	14.19	77,405
2007	2,723,763.77	1,560,172	1,144,146	1,579,618	14.48	109,090
2008	2,151,807.15	1,188,873	871,855	1,279,952	14.92	85,788
2009	1,896,495.57	1,010,832	741,290	1,155,206	15.26	75,702
2010	3,322,690.89	1,701,882	1,248,069	2,074,622	15.63	132,733
2011	2,622,345.67	1,289,670	945,775	1,676,571	15.93	105,246
2012	2,691,231.63	1,260,842	924,634	1,766,598	16.35	108,049
2013	1,651,728.11	735,680	539,508	1,112,220	16.70	66,600
2014	2,366,371.28	993,166	728,334	1,638,037	17.17	95,401
2015	2,145,704.53	847,553	621,550	1,524,155	17.49	87,144
2016	2,255,496.64	829,346	608,198	1,647,299	17.91	91,976
2017	7,373,011.44	2,506,087	1,837,829	5,535,182	18.29	302,634
2018	12,207,287.20	3,780,597	2,772,486	9,434,801	18.76	502,921
2019	13,265,898.94	3,709,145	2,720,087	10,545,812	19.11	551,848

SURVIVOR CURVE: IOWA 32-S0.5
NET SALVAGE PERCENT: 0

2020	15,119,779.39	3,734,586	2,738,744	12,381,035	19.56	632,977
2021	3,884,633.37	828,981	607,930	3,276,703	19.96	164,163
2022	241,845.44	43,145	31,640	210,205	20.34	10,335
2023	12,452,498.62	1,760,783	1,291,264	11,161,235	20.74	538,150
2024	13,025,888.66	1,335,154	979,130	12,046,759	21.17	569,049
2025	18,551,707.30	1,146,496	840,778	17,710,929	21.52	822,999
2026	4,557,445.91	185,032	135,693	4,421,753	21.66	204,144
	143,016,571.31	43,311,560	31,762,372	111,254,199		6,098,280

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 18.20 4.26

SURVIVOR CURVE: IOWA 20-S2
NET SALVAGE PERCENT: 0

2024	33,182.24	4,546	2,910	30,272	15.22	1,989
2025	4,867,339.64	391,821	250,851	4,616,489	16.19	285,144
2026	41,017,013.15	2,136,986	1,368,139	39,648,874	16.69	2,375,607
	45,917,535.02	2,533,353	1,621,900	44,295,635		2,662,740

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.60 5.80

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1922	4,989.91	4,990	4,990			
1923	49,058.07	49,058	49,058			
1924	44,204.04	44,204	44,204			
1925	47,835.17	47,652	37,771	10,064	1.00	10,064
1926	42,932.84	42,589	33,758	9,175	1.00	9,175
1927	49,681.14	49,049	38,878	10,803	1.00	10,803
1928	43,671.52	42,909	34,011	9,661	1.00	9,661
1929	44,127.28	43,149	34,201	9,926	1.22	8,136
1930	39,125.91	38,073	30,178	8,948	1.48	6,046
1931	27,402.94	26,531	21,029	6,374	1.75	3,642
1932	29,374.22	28,295	22,428	6,946	2.02	3,439
1933	30,157.91	28,902	22,909	7,249	2.29	3,166
1934	31,258.00	29,797	23,618	7,640	2.57	2,973
1935	19,879.74	18,850	14,941	4,939	2.85	1,733
1936	34,712.95	32,737	25,949	8,764	3.13	2,800
1937	38,615.49	36,221	28,710	9,905	3.41	2,905
1938	53,146.57	49,571	39,292	13,855	3.70	3,745
1939	8,983.24	8,332	6,604	2,379	3.99	596
1940	15,731.87	14,508	11,500	4,232	4.28	989
1941	21,680.01	19,883	15,760	5,920	4.56	1,298
1942	19,853.28	18,103	14,349	5,504	4.85	1,135
1943	10,460.73	9,483	7,517	2,944	5.14	573
1944	7,233.48	6,518	5,166	2,067	5.44	380
1945	5,655.26	5,066	4,015	1,640	5.73	286
1946	21,611.46	19,246	15,255	6,356	6.02	1,056
1947	40,955.40	36,257	28,739	12,216	6.31	1,936
1948	42,737.22	37,601	29,804	12,933	6.61	1,957
1949	86,367.93	75,533	59,870	26,498	6.90	3,840
1950	78,967.71	68,630	54,399	24,569	7.20	3,412
1951	81,576.02	70,437	55,831	25,745	7.51	3,428
1952	53,886.64	46,235	36,648	17,239	7.81	2,207
1953	80,229.23	68,384	54,204	26,025	8.12	3,205
1954	99,983.43	84,641	67,089	32,894	8.44	3,897
1955	129,386.77	108,779	86,222	43,165	8.76	4,928
1956	143,259.04	119,608	94,806	48,453	9.08	5,336
1957	146,131.52	121,104	95,991	50,141	9.42	5,323
1958	149,605.00	123,058	97,540	52,065	9.76	5,335
1959	144,111.63	117,621	93,231	50,881	10.11	5,033
1960	134,413.55	108,851	86,279	48,135	10.46	4,602
1961	138,654.86	111,352	88,262	50,393	10.83	4,653
1962	140,292.28	111,723	88,556	51,736	11.20	4,619
1963	122,565.03	96,737	76,677	45,888	11.59	3,959
1964	142,117.62	111,162	88,111	54,007	11.98	4,508
1965	122,240.08	94,725	75,082	47,158	12.38	3,809
1966	102,217.78	78,429	62,166	40,052	12.80	3,129
1967	122,671.81	93,186	73,863	48,809	13.22	3,692
1968	141,498.81	106,382	84,322	57,177	13.65	4,189
1969	122,950.20	91,431	72,471	50,479	14.10	3,580
1970	134,677.27	99,048	78,509	56,168	14.55	3,860
1971	187,556.24	136,337	108,066	79,490	15.02	5,292
1972	223,627.15	160,645	127,333	96,294	15.49	6,217
1973	244,236.84	173,274	137,343	106,894	15.98	6,689
1974	161,881.89	113,376	89,866	72,016	16.48	4,370
1975	234,997.79	162,405	128,728	106,270	16.99	6,255

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1976	132,577.92	90,370	71,630	60,948	17.51	3,481
1977	272,460.42	183,093	145,126	127,334	18.04	7,058
1978	228,469.14	151,288	119,916	108,553	18.58	5,842
1979	144,991.01	94,560	74,952	70,039	19.13	3,661
1980	208,614.88	133,893	106,128	102,487	19.70	5,202
1981	352,350.46	222,492	176,355	175,995	20.27	8,683
1982	339,916.51	211,058	167,292	172,625	20.85	8,279
1983	205,877.98	143,023	113,365	92,513	19.08	4,849
1984	420,256.41	286,993	227,481	192,775	19.70	9,786
1985	369,056.45	249,150	197,485	171,571	19.93	8,609
1986	232,731.55	154,254	122,267	110,465	20.56	5,373
1987	283,822.93	184,598	146,319	137,504	21.19	6,489
1988	258,155.98	165,633	131,287	126,869	21.46	5,912
1989	122,543.82	77,031	61,058	61,486	22.11	2,781
1990	188,169.07	115,799	91,786	96,383	22.76	4,235
1991	495,755.15	300,229	237,972	257,783	23.06	11,179
1992	643,765.71	381,109	302,081	341,685	23.72	14,405
1993	329,342.25	191,480	151,774	177,568	24.06	7,380
1994	333,112.11	188,975	149,788	183,324	24.73	7,413
1995	239,740.45	132,552	105,065	134,675	25.40	5,302
1996	1,610,488.88	871,919	691,114	919,375	25.76	35,690
1997	1,675,852.47	882,504	699,504	976,348	26.45	36,913
1998	1,226,851.30	630,970	500,129	726,722	26.83	27,086
1999	1,175,270.61	586,460	464,849	710,422	27.53	25,805
2000	1,310,948.91	637,252	505,109	805,840	27.93	28,852
2001	1,749,056.71	822,406	651,868	1,097,189	28.64	38,310
2002	2,465,831.14	1,125,898	892,427	1,573,404	29.06	54,143
2003	1,864,440.42	820,727	650,537	1,213,903	29.78	40,762
2004	2,441,754.74	1,039,943	824,296	1,617,459	30.22	53,523
2005	2,649,304.64	1,083,831	859,083	1,790,222	30.94	57,861
2006	2,228,086.02	877,866	695,828	1,532,258	31.40	48,798
2007	2,309,065.72	874,212	692,932	1,616,134	31.87	50,710
2008	2,654,514.45	958,280	759,567	1,894,947	32.60	58,127
2009	2,828,735.13	975,348	773,096	2,055,639	33.09	62,123
2010	2,732,028.19	896,925	710,935	2,021,093	33.58	60,187
2011	1,883,278.57	586,453	464,843	1,418,436	34.09	41,609
2012	1,920,627.17	564,856	447,725	1,472,902	34.60	42,569
2013	1,619,383.38	447,598	354,782	1,264,601	35.13	35,998
2014	1,793,250.91	463,197	367,146	1,426,105	35.66	39,992
2015	2,038,408.76	488,810	387,448	1,650,961	36.20	45,607
2016	2,530,395.62	558,711	442,854	2,087,542	36.75	56,804
2017	2,944,261.03	596,213	472,580	2,471,681	37.09	66,640
2018	2,556,802.96	466,872	370,059	2,186,744	37.67	58,050
2019	2,918,591.82	476,314	377,544	2,541,048	38.04	66,799
2020	2,786,211.73	398,707	316,029	2,470,183	38.43	64,277
2021	3,558,377.08	437,680	346,921	3,211,456	38.63	83,134
	67,768,708.33	25,868,199	20,524,431	47,244,277		1,624,149

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 29.10 2.40

SURVIVOR CURVE: IOWA 50-R0.5
NET SALVAGE PERCENT: 0

1888	92.52	93	93			
1903	19.22	19	19			
1923	734.41	734	734			
1925	132.42	132	132			
1927	124.42	124	124			
1930	75.73	73	76			
1934	139.64	130	140			
1936	72.28	66	72			
1937	101.94	92	102			
1941	900.61	781	901			
1942	835.87	718	836			
1943	2,476.79	2,107	2,477			
1945	660.47	551	660			
1946	247.36	204	247			
1947	494.83	405	495			
1948	148.37	120	148			
1949	2,124.01	1,705	2,124			
1950	1,209.20	961	1,209			
1951	1,161.43	914	1,161			
1952	7,393.66	5,760	7,394			
1953	10,125.68	7,807	10,126			
1954	13,046.94	9,955	13,034	13	13.00	1
1955	19,666.70	14,848	19,440	227	11.95	19
1956	29,782.34	22,247	29,127	655	12.60	52
1957	26,960.19	19,918	26,078	882	12.97	68
1958	15,702.62	11,472	15,020	683	13.39	51
1959	31,025.96	22,413	29,345	1,681	13.89	121
1960	19,608.77	14,005	18,336	1,273	14.30	89
1961	16,954.19	11,970	15,672	1,282	14.74	87
1962	32,606.13	22,746	29,781	2,825	15.11	187
1963	20,013.05	13,793	18,059	1,954	15.51	126
1964	15,164.24	10,321	13,513	1,651	16.03	103
1965	50,155.54	33,705	44,129	6,027	16.38	368
1966	35,219.58	23,365	30,591	4,629	16.83	275
1967	20,084.49	13,147	17,213	2,871	17.30	166
1968	29,182.27	18,846	24,675	4,507	17.74	254
1969	35,707.61	22,746	29,781	5,927	18.13	327
1970	33,565.39	21,079	27,598	5,967	18.59	321
1971	80,549.22	49,844	65,259	15,290	19.06	802
1972	42,129.90	25,691	33,636	8,494	19.53	435
1973	50,258.82	30,175	39,507	10,752	19.99	538
1974	5,622.67	3,324	4,352	1,271	20.50	62
1975	15,859.89	9,227	12,081	3,779	20.88	181
1976	34,882.62	19,960	26,133	8,750	21.39	409
1977	13,318.47	7,493	9,810	3,508	21.93	160
1978	10,964.84	6,064	7,939	3,026	22.41	135
1979	118,557.02	64,400	84,317	34,240	22.84	1,499
1980	104,030.99	55,469	72,624	31,407	23.33	1,346
1981	123,440.15	64,609	84,591	38,849	23.83	1,630
1982	169,230.88	86,849	113,709	55,522	24.34	2,281
1983	86,095.64	57,564	75,367	10,729	21.50	499
1984	100,358.47	66,407	86,945	13,413	21.70	618
1985	154,635.14	100,544	131,639	22,996	22.28	1,032
1986	356,364.62	229,000	299,823	56,542	22.48	2,515

SURVIVOR CURVE: IOWA 50-R0.5
NET SALVAGE PERCENT: 0

1987	161,275.67	101,717	133,175	28,101	23.07	1,218
1988	475,250.22	295,796	387,277	87,973	23.31	3,774
1989	441,838.56	271,112	354,959	86,880	23.56	3,688
1990	239,094.03	143,672	188,106	50,988	24.19	2,108
1991	396,155.13	234,326	306,796	89,359	24.46	3,653
1992	104,735.14	60,914	79,753	24,982	24.76	1,009
1993	82,551.24	47,170	61,758	20,793	25.05	830
1994	154,453.36	86,617	113,405	41,048	25.39	1,617
1995	168,972.49	92,901	121,633	47,339	25.73	1,840
1996	142,443.71	76,692	100,411	42,033	26.08	1,612
1997	163,083.33	85,880	112,440	50,643	26.45	1,915
1998	81,303.11	41,814	54,746	26,557	26.83	990
1999	118,733.59	59,569	77,992	40,742	27.23	1,496
2000	155,234.54	76,282	99,874	55,361	27.34	2,025
2001	97,018.03	46,355	60,691	36,327	27.77	1,308
2002	126,304.48	58,908	77,127	49,177	27.94	1,760
2003	197,522.55	89,260	116,866	80,657	28.40	2,840
2004	186,498.72	81,948	107,292	79,207	28.60	2,769
2006	21,962.27	9,057	11,858	10,104	29.12	347
2007	144,557.27	57,534	75,328	69,229	29.37	2,357
2008	45,223.65	17,407	22,790	22,434	29.44	762
2010	1,291.71	458	600	692	30.09	23
2011	27,033.73	9,170	12,006	15,028	30.06	500
2012	475,127.42	154,131	201,799	273,328	30.03	9,102
2013	1,056,586.74	324,583	424,967	631,620	30.25	20,880
2014	145,105.23	42,342	55,437	89,668	30.14	2,975
2015	361,318.51	99,001	129,619	231,700	30.25	7,660
2016	612,357.20	156,886	205,406	406,951	30.24	13,457
2017	1,648,106.95	392,579	513,993	1,134,114	30.11	37,666
2018	613,691.11	134,828	176,527	437,164	29.90	14,621
2019	227,574.52	45,560	59,650	167,925	29.62	5,669
2020	444,824.79	79,935	104,657	340,168	29.30	11,610
2021	915,011.15	144,206	188,805	726,206	28.95	25,085
2022	34,230.18	4,628	6,059	28,171	28.26	997
2023	1,009,919.10	111,798	146,374	863,545	27.45	31,459
2024	158,679.05	13,424	17,576	141,103	26.15	5,396
2025	10,276.91	569	745	9,532	24.13	395
2026	29,950.52	1,168	1,529	28,422	22.56	1,260
	13,415,312.12	4,956,889	6,488,420	6,926,892		245,430

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.20 1.83

SURVIVOR CURVE: IOWA 20-S4
NET SALVAGE PERCENT: 0

1997	53,681.30	52,586	53,681
1998	24,038.51	23,430	24,039
2005	14,566,812.47	13,228,122	14,566,812
	14,644,532.28	13,304,138	14,644,532

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 26-R2.5
NET SALVAGE PERCENT: 0

2005	106,411.95	78,170	74,446	31,966	7.74	4,130
2006	228,496.48	162,347	154,614	73,882	8.32	8,880
2007	172,643.52	118,675	113,022	59,622	8.83	6,752
2008	109,025.87	72,088	68,654	40,372	9.44	4,277
2010	123,227.17	74,848	71,283	51,944	10.61	4,896
2011	401,850.84	232,953	221,856	179,995	11.18	16,100
2012	234,211.62	128,652	122,524	111,688	11.83	9,441
2013	61,258.09	31,805	30,290	30,968	12.42	2,493
2014	434,494.81	211,469	201,396	233,099	13.09	17,807
2015	1,245,680.94	566,037	539,074	706,607	13.71	51,540
2016	613,051.96	257,972	245,683	367,369	14.34	25,618
2017	2,071,556.38	797,756	759,755	1,311,801	15.03	87,279
2018	1,688,040.05	589,632	561,545	1,126,495	15.68	71,843
2019	238,815.47	74,558	71,006	167,809	16.34	10,270
2020	1,223,231.85	335,166	319,200	904,032	17.00	53,178
2021	5,260,559.41	1,236,758	1,177,845	4,082,714	17.62	231,709
2022	713,153.12	138,922	132,305	580,848	18.26	31,810
2023	316,501.69	48,678	46,359	270,143	18.80	14,369
2024	687,109.10	76,407	72,767	614,342	19.32	31,798
2025	556,205.79	37,377	35,597	520,609	19.68	26,454
	16,485,526.11	5,270,270	5,019,221	11,466,305		710,644

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.10 4.31

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1895	221.00	221	221			
1896	578.00	578	578			
1897	265.80	266	266			
1898	123.55	124	124			
1899	219.60	220	220			
1900	78.67	79	79			
1901	1,043.20	1,043	1,043			
1902	9.85	10	10			
1903	356.24	356	356			
1904	105.00	105	105			
1905	271.56	272	272			
1907	515.26	515	515			
1908	1.22	1	1			
1909	5.00	5	5			
1912	107.28	107	107			
1913	418.90	419	419			
1914	242.34	242	242			
1915	59.34	59	59			
1916	348.78	349	349			
1917	37.03	37	37			
1919	20.00	20	20			
1920	747.78	748	748			
1923	337.00	337	337			
1924	1,098.02	1,098	1,098			
1925	257.57	258	258			
1926	32.00	32	32			
1927	101.50	101	102			
1928	38.20	38	38			
1929	741.31	730	741			
1930	63.71	62	64			
1932	25.00	24	25			
1935	6.60	6	7			
1936	23.00	22	23			
1937	126.06	120	126			
1940	94.65	89	95			
1941	123.94	116	124			
1942	91.94	86	92			
1944	457.06	421	457			
1945	266.11	244	266			
1946	58.28	53	58			
1948	15.96	14	16			
1949	91.53	82	92			
1950	62.45	56	62			
1951	36.13	32	36			
1952	23.18	21	23			
1953	38.67	34	38	1		
1954	53.96	47	53	1		
1956	308.81	267	302	7	7.00	1
1958	3,915.91	3,349	3,791	125	8.93	14
1959	630.52	535	606	25	8.33	3
1960	914.07	771	873	41	10.25	4
1961	147.59	124	140	8	8.00	1
1962	74.23	62	70	4		
1963	124.21	102	115	9	9.00	1

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1964	42.01	34	38	4		
1965	515.64	417	472	44	11.00	4
1966	2,820.19	2,260	2,558	262	11.91	22
1967	76.52	61	69	8	8.00	1
1968	563.97	443	501	63	12.60	5
1969	267.27	208	235	32	16.00	2
1973	263.19	195	221	42	14.00	3
1977	149.17	105	119	30	15.00	2
1978	842.86	582	659	184	18.40	10
1980	349.81	234	265	85	21.25	4
1981	13,624.82	8,954	10,135	3,490	20.53	170
1983	6,888.56	4,726	5,349	1,540	19.74	78
1984	1,771.57	1,195	1,352	420	20.00	21
1987	565.85	361	409	157	22.43	7
2017	8,100.00	1,419	1,606	6,494	44.48	146
	52,996.00	36,303	39,924	13,072		499

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 26.20 0.94

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

1940	1,925.94	1,690	1,926			
1946	2,296.66	1,946	2,297			
1950	2,498.89	2,063	2,499			
1953	893.13	722	893			
1955	809.77	645	810			
1957	4,815.59	3,777	4,816			
1958	2,505.42	1,950	2,493	12	12.00	1
1960	54,336.68	41,572	53,150	1,187	12.90	92
1961	815.23	618	790	25	12.50	2
1966	90,285.05	65,202	83,361	6,924	15.28	453
1967	5,035.03	3,598	4,600	435	15.54	28
1968	671.79	475	607	65	16.25	4
1970	141,218.06	97,518	124,677	16,541	17.02	972
1971	9,813.04	6,692	8,556	1,257	17.46	72
1972	1,364.51	919	1,175	190	17.27	11
1973	4,961.84	3,298	4,217	745	18.63	40
1974	1,407.39	923	1,180	227	18.92	12
1975	10,702.58	6,924	8,852	1,851	19.48	95
1976	5,272.87	3,362	4,298	975	19.90	49
1977	63.35	40	51	12	12.00	1
1978	4,185.50	2,589	3,310	876	20.86	42
1979	18,553.96	11,294	14,439	4,115	21.54	191
1980	10,461.89	6,266	8,011	2,451	22.08	111
1981	16,373.42	9,640	12,325	4,048	22.61	179
1982	53,783.96	31,117	39,783	14,001	23.18	604
1983	80,114.21	54,261	69,373	10,741	20.70	519
1984	43,259.13	28,806	36,829	6,430	21.29	302
1985	100,848.26	65,995	84,375	16,473	21.88	753
1986	43,961.23	28,430	36,348	7,613	22.07	345
1987	96,151.95	61,018	78,012	18,140	22.70	799
1988	38,503.36	24,111	30,826	7,677	22.92	335
1989	91,126.14	55,915	71,488	19,638	23.55	834
1990	36,462.42	21,910	28,012	8,450	24.21	349
1991	65,323.12	38,639	49,400	15,923	24.46	651
1992	54,405.16	31,457	40,218	14,187	25.11	565
1993	61,924.09	35,179	44,976	16,948	25.41	667
1994	2,013.31	1,116	1,427	586	26.64	22
1995	58,063.15	31,557	40,346	17,717	26.40	671
1996	159,652.36	84,488	108,018	51,634	27.06	1,908
1997	93,160.74	48,229	61,661	31,500	27.39	1,150
1998	1,334.73	671	858	477	28.06	17
2000	14,094.19	6,738	8,615	5,479	28.84	190
2001	5,830.23	2,697	3,448	2,382	29.41	81
2002	134,144.05	60,271	77,057	57,087	29.94	1,907
2003	111,505.48	48,572	62,099	49,406	30.35	1,628
2004	589,621.60	248,467	317,666	271,956	30.78	8,835
2005	63,956.54	26,024	33,272	30,685	31.22	983
2006	27,536.06	10,794	13,800	13,736	31.65	434
2007	87,213.19	32,853	42,003	45,210	32.13	1,407
2009	146,245.00	50,425	64,469	81,776	33.09	2,471
2010	1,339,452.31	439,742	562,212	777,240	33.58	23,146
2011	987,296.21	309,024	395,088	592,208	33.84	17,500
2012	136,919.60	40,665	51,990	84,930	34.14	2,488
2013	315,634.29	88,094	112,629	203,005	34.66	5,857

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

2014	291,416.33	76,351	97,615	193,801	34.98	5,540
2015	370,818.24	90,591	115,821	254,997	35.31	7,222
2017	597,611.21	124,363	158,999	438,612	35.83	12,241
2018	758,404.48	143,642	183,647	574,757	36.03	15,952
2019	1,036,920.23	176,899	226,166	810,754	36.06	22,483
2020	171,201.54	25,817	33,007	138,195	36.14	3,824
2021	456,405.23	59,561	76,149	380,256	36.08	10,539
2022	131,790.23	14,378	18,382	113,408	36.07	3,144
2023	9,144,925.20	800,181	1,023,035	8,121,890	35.64	227,887
2024	4,104,123.03	265,947	340,014	3,764,109	34.90	107,854
2025	29,498,527.47	1,194,690	1,527,416	27,971,111	33.55	833,714
2026	7,981,338.61	220,285	281,635	7,699,704	32.31	238,307
	59,974,285.46	5,473,693	6,997,517	52,976,768		1,568,480

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.80 2.62

INTERIM SURVIVOR CURVE: IOWA 75-R0.5
 PROBABLE RETIREMENT DATE: 1-2029
 NET SALVAGE PERCENT: 0

2005	2,426,504.18	2,203,508	2,203,321	223,183	2.17	102,849
2007	2,377.97	2,142	2,142	236	2.15	110
2010	127,013.84	112,395	112,385	14,629	2.14	6,836
2011	709,521.96	622,393	622,340	87,182	2.16	40,362
2012	94,911.23	82,649	82,642	12,269	2.14	5,733
2014	39,297.04	33,473	33,470	5,827	2.16	2,698
2015	1,393,602.58	1,172,577	1,172,477	221,126	2.15	102,849
2016	2,954,611.41	2,449,964	2,449,756	504,855	2.15	234,816
2017	142,829.20	116,334	116,324	26,505	2.14	12,386
2018	17,737.38	14,123	14,122	3,615	2.15	1,681
2020	148,419.26	111,136	111,127	37,292	2.15	17,345
2021	11,721.66	8,394	8,393	3,329	2.15	1,548
2026	80,435.80	24,139	24,137	56,299	2.14	26,308
	8,148,983.51	6,953,227	6,952,636	1,196,348		555,521

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 2.20 6.82

SURVIVOR CURVE.. 20-SQUARE
NET SALVAGE PERCENT: 0

1993	543.58	544	544			
1995	466.44	466	466			
1998	11,131.17	11,131	11,131			
1999	0.01					
2004	1,732.81	1,733	1,733			
2005	18,296.34	18,296	18,296			
2006	17,559.99	17,560	17,560			
2007	49,231.33	47,795	49,231			
2008	2,364.40	2,177	2,364			
2009	42,688.50	37,174	42,688			
2010	20,850.43	17,115	20,850			
2011	525,933.34	405,405	498,650	27,283	4.58	5,957
2012	11,221.10	8,089	9,950	1,271	5.57	228
2013	118,229.77	79,312	97,554	20,676	6.58	3,142
2014	154,165.72	95,711	117,725	36,441	7.58	4,808
2015	1,415,319.03	807,907	993,730	421,589	8.58	49,136
2016	304,233.69	158,454	194,899	109,335	9.58	11,413
2017	30,251.87	14,243	17,519	12,733	10.58	1,203
2021	9,436.05	2,556	3,144	6,292	14.56	432
2023	17,357.08	2,965	3,647	13,710	16.58	827
2026	6,593.84	302	371	6,223	19.09	326
	2,757,606.49	1,728,935	2,102,052	655,554		77,472

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 8.50 2.81

SURVIVOR CURVE.. 5-SQUARE
NET SALVAGE PERCENT: 0

2012	6,042.49	6,042	6,042	
2013	31,777.59	31,778	31,778	
2019	4,232.79	4,233	4,233	
2020	4,591.35	4,591	4,591	
2021	2,147,034.82	2,147,035	2,147,035	
2022	2,638,052.30	2,330,271	2,638,052	
2023	976,930.22	667,566	1,210,445	(233,515)
	5,808,661.56	5,191,516	6,042,176	(233,514)

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2012	6,374.27	6,126	3,348	3,026	1.00	3,026
2013	131.73	118	64	68	1.58	43
2017	14,554.52	9,137	4,994	9,561	5.58	1,713
2018	54,465.52	30,561	16,702	37,764	6.58	5,739
2019	15,022.00	7,427	4,059	10,963	7.58	1,446
2020	13,792.00	5,900	3,224	10,568	8.58	1,232
2021	30,392.00	10,975	5,998	24,394	9.58	2,546
2026	55,178.82	3,372	1,843	53,336	14.08	3,788
	189,910.86	73,616	40,232	149,679		19,533

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.70 10.29

SURVIVOR CURVE: IOWA 6-L2.5
NET SALVAGE PERCENT: 0

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 10-L2.5
NET SALVAGE PERCENT: 0

1999	92,917.47	92,732	71,592	21,325	1.00	21,325
2002	739.32	722	557	182	1.00	182
2004	35,002.10	33,581	25,926	9,076	1.00	9,076
2007	8,831.94	8,248	6,368	2,464	1.37	1,799
2008	15,529.12	14,357	11,084	4,445	1.50	2,963
2009	27,939.91	25,498	19,685	8,255	1.67	4,943
2013	106,780.45	90,539	69,899	36,881	2.41	15,303
2014	59,040.44	48,826	37,695	21,345	2.60	8,210
2015	78,538.30	63,302	48,871	29,667	2.75	10,788
2016	2,021,163.26	1,585,400	1,223,982	797,181	2.86	278,735
2017	2,729,121.28	2,073,859	1,601,089	1,128,032	2.98	378,534
2018	5,044,206.56	3,680,758	2,841,668	2,202,539	3.12	705,942
2019	6,957,422.75	4,793,664	3,700,869	3,256,554	3.35	972,106
2020	12,329,416.92	7,816,850	6,034,870	6,294,547	3.70	1,701,229
2021	11,447,254.83	6,460,831	4,987,978	6,459,277	4.18	1,545,282
2022	4,082,840.65	1,963,846	1,516,155	2,566,686	4.77	538,089
2023	8,777,509.21	3,380,219	2,609,642	6,167,867	5.46	1,129,646
2024	14,004,688.35	3,922,713	3,028,466	10,976,222	6.21	1,767,508
2025	5,468,921.48	917,138	708,061	4,760,860	7.03	677,220
2026	11,405,375.02	1,246,607	962,422	10,442,953	7.47	1,397,986
	84,693,239.36	38,219,690	29,506,879	55,186,360		11,166,866

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.90 13.19

SURVIVOR CURVE: IOWA 15-L2
NET SALVAGE PERCENT: 0

1999	7,069.38	6,454	(3,742)	10,811	2.61	4,142
2000	501.40	453	(263)	764	2.82	271
2006	9,292.36	7,759	(4,498)	13,790	4.03	3,422
2007	7,139.95	5,864	(3,400)	10,540	4.22	2,498
2008	6,222.44	5,019	(2,910)	9,132	4.42	2,066
2009	19,028.66	15,080	(8,743)	27,772	4.56	6,090
2010	3,532.99	2,743	(1,590)	5,123	4.73	1,083
2011	9,013.63	6,850	(3,971)	12,985	4.87	2,666
2012	12,043.66	8,924	(5,174)	17,218	5.04	3,416
2013	3,991.51	2,881	(1,670)	5,662	5.17	1,095
2015	27,736.45	18,747	(10,869)	38,605	5.47	7,058
2016	128,982.62	83,439	(48,375)	177,358	5.69	31,170
2017	231,600.76	141,971	(82,310)	313,911	5.94	52,847
2019	446,273.64	235,008	(136,250)	582,524	6.67	87,335
2020	119,288.91	56,340	(32,664)	151,953	7.17	21,193
2021	96,847.54	39,814	(23,083)	119,931	7.76	15,455
2023	222,810.04	60,983	(35,356)	258,166	9.07	28,464
2024	313,206.42	61,984	(35,936)	349,142	9.79	35,663
2025	2,463,414.54	291,176	(168,815)	2,632,230	10.57	249,028
2026	2,368,882.35	182,167	(105,615)	2,474,497	11.00	224,954
	6,496,879.25	1,233,656	(715,234)	7,212,113		779,916

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.20 12.00

SURVIVOR CURVE.. 25-SQUARE
NET SALVAGE PERCENT: 0

2006	4.01	3	4	4.00	1
2007	54.28	42	54	5.40	10
2010	41.71	27	42	8.40	5
2011	356.77	220	357	9.65	37
	456.77	292	457		53

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 8.60 11.60

SURVIVOR CURVE.. 25-SQUARE
NET SALVAGE PERCENT: 0

1999	89,151.71	89,152	89,152			
2000	192,756.13	192,756	192,756			
2001	181,761.69	181,762	181,762			
2002	319,391.69	311,940	319,392			
2003	181,621.31	170,119	176,636	4,985	1.58	3,155
2004	380,227.81	340,939	354,000	26,228	2.58	10,166
2005	71,201.04	60,996	63,333	7,868	3.58	2,198
2006	173,445.34	141,648	147,075	26,370	4.58	5,758
2007	557,846.16	433,262	449,860	107,986	5.58	19,352
2008	443,719.85	326,875	339,398	104,322	6.58	15,854
2009	730,289.47	508,771	528,262	202,027	7.58	26,653
2010	585,169.83	384,263	398,984	186,186	8.58	21,700
2011	406,075.08	250,414	260,007	146,068	9.58	15,247
2012	452,774.55	261,101	271,104	181,671	10.58	17,171
2013	594,420.01	319,007	331,228	263,192	11.58	22,728
2014	69,912.18	34,723	36,053	33,859	12.58	2,691
2015	25,571.63	11,678	12,125	13,447	13.58	990
2016	151,256.74	63,024	65,438	85,819	14.58	5,886
2017	110,465.30	41,609	43,203	67,262	15.58	4,317
2018	282,789.82	95,207	98,855	183,935	16.58	11,094
2019	31,050.84	9,212	9,565	21,486	17.58	1,222
2020	50,478.74	12,956	13,452	37,027	18.58	1,993
2021	174,402.80	37,788	39,236	135,167	19.58	6,903
2022	542,711.43	95,881	99,554	443,157	20.58	21,533
2023	151,685.19	20,731	21,525	130,160	21.58	6,032
2024	16,550.57	1,600	1,661	14,890	22.59	659
2025	27,823.62	1,577	1,637	26,187	23.57	1,111
2026	2,018,011.84	74,000	76,836	1,941,176	24.08	80,614
	9,012,562.37	4,472,991	4,622,089	4,390,473		305,027

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.40 3.38

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2014	130,860.25	108,323	130,860			
2018	267,256.56	149,960	197,652	69,605	6.58	10,578
	398,116.81	258,283	328,512	69,605		10,578

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.60 2.66

SURVIVOR CURVE: IOWA 15-L2
NET SALVAGE PERCENT: 0

1961	1,315.08	1,315	1,315			
1962	476.04	476	476			
1975	236.92	237	237			
1985	7,755.35	7,755	7,755			
1987	5,112.74	5,059	5,091	22	1.00	22
1988	1,332.07	1,310	1,318	14	1.00	14
1989	14,153.23	13,822	13,909	244	1.00	244
1991	780.06	754	759	21	1.24	17
1992	96,521.61	92,680	93,263	3,259	1.43	2,279
1993	39,846.27	38,081	38,320	1,526	1.55	985
1994	77,966.13	74,052	74,517	3,449	1.71	2,017
1995	13,320.69	12,555	12,634	687	1.92	358
1997	55,384.08	51,319	51,642	3,742	2.33	1,606
1999	264,287.65	241,295	242,812	21,476	2.61	8,228
2000	75,919.19	68,585	69,016	6,903	2.82	2,448
2001	30,525.73	27,232	27,403	3,123	3.07	1,017
2002	64,044.73	56,609	56,965	7,080	3.21	2,206
2003	70,604.83	61,504	61,891	8,714	3.47	2,511
2004	87,862.84	75,632	76,107	11,756	3.62	3,248
2005	205,972.14	174,685	175,783	30,189	3.84	7,862
2006	14,117.79	11,788	11,862	2,256	4.03	560
2007	136,970.39	112,494	113,201	23,769	4.22	5,632
2008	43,353.71	34,969	35,189	8,165	4.42	1,847
2009	30,870.74	24,465	24,619	6,252	4.56	1,371
2010	18,208.76	14,139	14,228	3,981	4.73	842
2011	371,304.10	282,191	283,965	87,339	4.87	17,934
2012	421,085.32	312,024	313,985	107,100	5.04	21,250
2013	237,956.31	171,757	172,837	65,119	5.17	12,596
2014	747,465.73	523,450	526,740	220,726	5.31	41,568
2015	914,078.34	617,826	621,710	292,368	5.47	53,449
2016	502,605.55	325,136	327,180	175,426	5.69	30,831
2017	1,586,517.50	972,535	978,648	607,870	5.94	102,335
2018	1,647,913.62	944,584	950,522	697,392	6.27	111,227
2019	1,092,384.72	575,250	578,866	513,519	6.67	76,989
2020	2,270,359.98	1,072,291	1,079,032	1,191,328	7.17	166,155
2021	923,847.05	379,794	382,181	541,666	7.76	69,802
2022	1,999,503.99	689,629	693,964	1,305,540	8.39	155,607
2023	1,990,157.80	544,706	548,130	1,442,028	9.07	158,989
2024	340,950.23	67,474	67,898	273,052	9.79	27,891
2025	96,343.37	11,388	11,460	84,883	10.57	8,031
2026	1,357,121.79	104,363	105,019	1,252,103	11.00	113,828
	17,856,534.17	8,797,210	8,852,449	9,004,085		1,213,796

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.40 6.80

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2009	7,655.46	7,655	7,655			
2010	460,740.89	460,741	460,741			
2011	3,094,026.62	3,094,027	3,094,027			
2012	730,886.81	702,463	496,839	234,048	1.00	234,048
2013	650,257.67	581,616	411,366	238,892	1.58	151,197
2014	582,766.53	482,402	341,194	241,573	2.58	93,633
2015	914,974.75	696,396	492,547	422,428	3.58	117,997
2016	461,177.11	320,260	226,514	234,663	4.58	51,236
2017	545,708.71	342,585	242,304	303,405	5.58	54,374
2018	1,052,949.48	590,820	417,876	635,073	6.58	96,516
2019	506,497.02	250,432	177,126	329,371	7.58	43,453
2020	1,027,407.82	439,505	310,853	716,555	8.58	83,515
2021	4,016,244.54	1,450,306	1,025,773	2,990,472	9.58	312,158
2022	313,442.25	92,290	65,275	248,167	10.58	23,456
2023	1,109,193.82	252,652	178,696	930,498	11.58	80,354
2024	488.38	79	56	432	12.71	34
2026	2,799,570.92	171,082	121,003	2,678,568	14.08	190,239
	18,273,988.77	9,935,311	8,069,845	10,204,144		1,532,210

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.70 8.38

SURVIVOR CURVE.. 18-SQUARE
NET SALVAGE PERCENT: 0

2017	16,889,405.25	8,835,692	9,806,129	7,083,276	8.58	825,557
2022	28,346.42	6,955	7,719	20,627	13.58	1,519
2023	32,077.26	6,089	6,758	25,319	14.58	1,737
2026	176.23	9	10	166	16.60	10
	16,950,005.16	8,848,745	9,820,616	7,129,389		828,823

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 8.60 4.89

SURVIVOR CURVE.. 25-SQUARE
NET SALVAGE PERCENT: 0

2007	11,500.91	8,932	796	10,705	5.58	1,918
2011	13,689.76	8,442	753	12,937	9.58	1,350
2012	3,464.31	1,998	178	3,286	10.57	311
	28,654.98	19,372	1,727	26,928		3,579

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.50 12.49

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2006	19,688.74	19,689	19,689			
2007	29,453.58	29,454	29,454			
2008	9,623.41	9,623	9,623			
2009	2,921.11	2,921	2,921			
2010	21,147.88	21,148	21,148			
2011	11,027.28	11,027	11,027			
2012	1,026.65	987	(244)	1,271	1.00	1,271
2013	121,858.81	108,995	(26,965)	148,824	1.58	94,192
2014	107,316.62	88,835	(21,978)	129,295	2.58	50,114
2015	29,803.08	22,683	(5,612)	35,415	3.58	9,892
2016	81,299.09	56,457	(13,967)	95,266	4.58	20,800
2018	82,283.65	46,170	(11,422)	93,706	6.58	14,241
2019	34,463.16	17,040	(4,216)	38,679	7.58	5,103
2020	24,532.09	10,494	(2,596)	27,128	8.58	3,162
2021	45,482.86	16,424	(4,063)	49,546	9.58	5,172
2022	2,590.68	763	(189)	2,780	10.57	263
2023	26,199.27	5,968	(1,477)	27,676	11.58	2,390
2026	2,740.00	167	(41)	2,781	14.05	198
	653,457.96	468,845	1,092	652,366		206,798

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 3.20 31.65

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2018	46,650.00	26,176	41,266	5,384	6.58	818
2019	8,235.82	4,072	6,419	1,817	7.57	240
	54,885.82	30,248	47,685	7,201		1,058

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.80 1.93

**PART VIII. EXPERIENCED AND ESTIMATED
NET SALVAGE**

2022	TRANSACTION YEAR			
303.00	1,528,279			
303.01	12,622,314			
332.00		1,324		(1,324)
333.00	12,996	128,575		(128,575)
337.00	11,277			
352.00	93,478			
367.00	144,454		6,939	6,939
369.00	94,291			
375.00	5,379			
376.00	5,286,975	262,145	(327)	(262,472)
378.00	570,425			
380.00	718,517			
381.00	448,543			
382.00	81,576	5,184		(5,184)
387.00	198,953			
390.00	12,752			
390.01	1,649,167			
391.01	53,442			
391.02	8,861,539			
391.03	404,100			
392.00	1,735,740		5,644	5,644
392.01	51,431			
392.02	6,677,435			
392.03	172,346			
392.04	6,345			
393.00	10,559			
394.00	101,959			
394.20	193,491			
396.00	1,519,851			
397.02	1,286,769			
397.20	19,826			
398.00	8,673			
TOTAL	44,582,882	397,228	12,255	(384,973)
2023	TRANSACTION YEAR			
303.00	16,339,592			
325.04	853			
332.00	161,325	2,544,899		(2,544,899)
334.00	286			
337.00	27,305			
352.02		181,890		(181,890)
354.01	86,119			
366.01	4,072			
367.00	96,916	1,774		(1,774)
369.00	4,814			
375.00	15,577			
376.00	6,064,305	8,652,109		(8,652,109)
378.00	264,921	4,928		(4,928)
380.00	3,762,326	743,999		(743,999)
381.00	1,670,355			
382.00		1,178		(1,178)
385.00	527			
390.00	1,595,344			
391.01	10,607			
391.02	2,451,171			
391.03	182,868			

392.01	30,168		
392.02	6,884,873		
394.00	191,545		
396.00	1,482,124		
397.02	183,962		
397.20	114,223		
TOTAL	41,626,178	12,130,777	(12,130,777)

2024	TRANSACTION YEAR			
303.00	15,875,601			
325.04	834			
332.00	189,953	12,327		(12,327)
333.00	230,478			
334.00	378			
351.00		178,852		(178,852)
352.01	2,289	284,716		(284,716)
353.01	43,751			
367.00	841,375	35,301		(35,301)
369.00	21,533	378,692		(378,692)
375.00	3,984	671		(671)
376.00	7,669,667	6,640,588		(6,640,588)
378.00	195,349	94,523		(94,523)
380.00	2,581,364	1,122,598		(1,122,598)
381.00	3,834,041			
382.00	5,895,137			
385.00	1,284			
387.00	303,093			
390.00	140,442			
391.01	15,372			
391.02	4,797,044			
391.03	38,196			
392.01	31,026			
392.02	11,550,342		8,391,000	8,391,000
393.00	5,438			
394.00	191,869			
396.00	615,887			
397.02	897,585			
397.20	277,732			
TOTAL	56,251,045	8,748,267	8,391,000	(357,267)

2025	TRANSACTION YEAR			
303.01	3,705,100			
303.02	21,442,054			
330.00	7			
331.00	24			
332.00	184,725	4,320		(4,320)
333.00	56			
334.00	2,037			
351.00		471,802		(471,802)
352.01	84,049	2,280,536		(2,280,536)
352.02	51,018			
353.01	20,132			
354.01	1,526			
355.00	4,589			
367.00	424,833	57,068		(57,068)
369.00	32,540	1,824,637		(1,824,637)
375.01	568			
375.31	157			

375.32	1,194			
376.01	4,575,938	4,598,591		(4,598,591)
376.02	2,108,060			
378.00	309,406	(28,955)		28,955
380.00	4,259,738	11,295,684		(11,295,684)
381.00	14,268,296			
382.00	11,092,985	(79,096)		79,096
385.00	4,815			
387.00	26,550			
390.00	321,911			
392.02	4,563,447	(84,065)	1,864,607	1,948,672
392.03	836,503			
396.00	373,616			
TOTAL	68,695,875	20,340,522	1,864,607	(18,475,914)
2026	TRANSACTION YEAR			
332.00	272,107	136,054	2,709	(133,345)
333.00	1,543,899	771,950		(771,950)
334.00	907	453		(453)
352.01	86,466	43,233		(43,233)
367.00	122,889	24,600	551	(24,049)
368.00	337,644			
369.00	51,598	25,799		(25,799)
376.01	4,408,085	2,204,043	11,564	(2,192,479)
378.00	933,485	140,023		(140,023)
380.00	4,922,703	2,461,351		(2,461,351)
382.00	9,977,420	82,812		(82,812)
385.00	165			
392.02	7,071,333	(17,648)	1,414,267	1,431,914
396.00	841,416			
397.02	4,199,990		5,987	5,987
TOTAL	34,770,106	5,872,670	1,435,077	(4,437,592)
TOTAL	245,926,087	47,489,464	11,702,940	(35,786,524)

PEOPLES NATURAL GAS COMPANY LLC

PITTSBURGH, PENNSYLVANIA

2027 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION
ACCRUALS RELATED TO GAS PLANT
AS OF DECEMBER 31, 2027

Prepared by:

**GANNETT FLEMING VALUATION
AND RATE CONSULTANTS, LLC**

PEOPLES NATURAL GAS COMPANY LLC

Pittsburgh, Pennsylvania

2027 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION ACCRUALS
RELATED TO GAS PLANT
AS OF DECEMBER 31, 2027

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC

Mechanicsburg, Pennsylvania

Gannett Fleming Valuation
and Rate Consultants, LLC
(a **GFT** Company)

300 Sterling Parkway, Suite 200
Mechanicsburg, PA 17050
717.763.7211

March 9, 2026

Peoples Natural Gas Company, LLC
375 North Shore Drive, Suite 600
Pittsburgh, PA 15212-5322

Ladies and Gentlemen:

Pursuant to your request, we have determined the annual depreciation accruals applicable to gas plant as of December 31, 2027. The results of our study as of November 30, 2026 are presented in our report titled "2026 Depreciation Study - Calculated Annual Depreciation Accruals Related to Gas Plant as of November 30, 2026". The same methods, procedures and estimates are used in both studies.

The attached report sets forth a description of the methods and procedures upon which the studies were based, the estimates of survivor curves and the calculated annual depreciation rates as of December 31, 2027.

Respectfully submitted,

GANNETT FLEMING VALUATION
AND RATE CONSULTANTS, LLC



JOHN J. SPANOS
President



MELISSA M. HOWARD
Project Manager

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PART I. RESULTS OF STUDY

**PEOPLES NATURAL GAS COMPANY LLC
DEPRECIATION STUDY**

PART I. RESULTS OF STUDY

DESCRIPTION OF SUMMARY TABULATIONS

Tables 1 through 4 presented on pages I-3 through I-10 summarize the results of the depreciation study as of December 31, 2027. Table 1 sets forth, by depreciable group, the estimated survivor curve, original cost, book depreciation reserve as of December 31, 2027, future book accruals, calculated annual accrual amount and rate, and composite remaining life for plant in service. Table 2 presents the bringforward of the book reserve to December 31, 2027. Table 3 sets forth the calculations of the depreciation accruals for the thirteen months ended December 31, 2027. Table 4 presents the annual amortization of experienced and estimated net salvage based on the period 2023 through 2027.

DESCRIPTION OF DETAILED TABULATIONS

The supporting data for the depreciation calculations are presented in account sequence in the section beginning on page II-6. The original cost, calculated accrued depreciation, allocated book reserve, future accruals, remaining life and annual accrual are shown for each vintage of each account or subaccount. The amounts of regular retirements, gross salvage and cost of removal are set forth by account for the years 2023 through 2027, beginning on pages III-2 through III-4.

PEOPLES NATURAL GAS COMPANY LLC

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVE, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF DECEMBER 31, 2027

	DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF DECEMBER 31, 2027 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED		COMPOSITE REMAINING LIFE (8)=(5)/(6)
						ANNUAL ACCRUAL AMOUNT (6)	RATE (7)=(6)/(3)	
DEPRECIABLE GAS PLANT								
INTANGIBLE PLANT								
303.00	MISCELLANEOUS INTANGIBLE PLANT		18,840,458.17	1,344,212	17,496,246	515,683	2.74	33.9
	CIAC	40-SQ	68,394,812.91	45,886,851	22,507,962	12,995,172	19.00	1.7
	OTHER	5-SQ	11,663,428.53	554,660	11,108,769	1,450,069	12.43	7.7
	MAJOR	15-SQ	18,015,880.52	14,902,603	3,113,278	393,599	2.18	7.9
	SAP	10-SQ						
	TOTAL MISCELLANEOUS INTANGIBLE PLANT		116,914,580.13	62,688,326	54,226,255	15,354,523	13.13	
PRODUCTION PLANT								
325.01	PRODUCING LANDS	75-R4	139,440.21	84,516	54,924	1,068	0.77	51.4
325.02	PRODUCING LEASEHOLDS	45-L0	14,480.68	10,390	4,091	180	1.24	22.7
325.03	GAS RIGHTS	65-R2.5	20,984.28	13,831	7,153	221	1.05	32.4
325.04	RIGHTS OF WAY	75-R2.5	2,236,969.16	1,066,803	1,170,166	25,001	1.12	46.8
327.00	FIELD COMPRESSOR STATION EQUIPMENT	50-S0.5	12,308,841.37	5,753,879	6,554,962	238,870	1.94	27.4
328.00	FIELD MEASURING AND REGULATING STATION STRUCTURES	33-S0	100,014.85	55,565	44,450	2,328	2.33	19.1
329.00	OTHER STRUCTURES	60-R2.5	1,926,213.73	1,071,077	855,137	23,418	1.22	36.5
330.00	PRODUCING GAS WELLS - WELL CONSTRUCTION	25-L1	9,214.49	10,461	(1,247)	0	-	-
331.00	PRODUCING GAS WELLS - WELL EQUIPMENT	26-L1	2,960.52	2,883	78	42	1.42	1.9
332.00	FIELD LINES	65-R1.5	116,633,035.71	34,247,273	82,385,763	2,244,167	1.92	36.7
333.00	FIELD COMPRESSOR STATION EQUIPMENT	35-S0.5	51,277,480.67	20,354,472	30,923,009	1,656,831	3.23	18.7
334.00	FIELD MEASURING AND REGULATING STATION EQUIPMENT	20-L0	3,954,071.96	3,130,540	823,532	85,340	2.16	9.7
337.00	OTHER EQUIPMENT	23-L1	9,645.75	(10,458)	20,104	2,179	22.59	9.2
	TOTAL PRODUCTION PLANT		188,633,353.38	65,791,232	122,842,122	4,279,645	2.27	
UNDERGROUND STORAGE PLANT								
350.11	LAND - GAS	55-L4	16,823.84	11,922	4,902	414	2.46	11.8
350.21	RIGHTS OF WAY	70-R3	171,877.14	43,452	128,425	2,412	1.40	53.2
351.00	STRUCTURES AND IMPROVEMENTS	60-R2	2,400,554.19	1,152,588	1,247,966	37,397	1.56	33.4
352.01	WELLS - CONSTRUCTION	60-R1.5	6,365,663.59	(8,383)	6,374,047	200,201	3.15	31.8
352.02	WELLS - EQUIPMENT	55-R1	3,385,332.42	124,849	3,260,483	121,953	3.60	26.7
352.11	LEASEHOLDS	60-R3	161,936.70	161,937	0	0	-	-
352.12	STORAGE RIGHTS	65-R5	413,405.93	244,605	168,801	5,084	1.23	33.2
352.21	RESERVOIRS	40-SQ	433,138.50	215,639	217,500	9,679	2.23	22.5
352.31	NON-RECOVERABLE NATURAL GAS	37-SQ	205,250.77	205,251	0	0	-	-
353.00	LINES	50-R2	3,688,378.84	2,298,382	1,389,997	50,055	1.36	27.8
354.00	COMPRESSOR STATION EQUIPMENT	47-R1.5	16,961,956.51	4,652,235	12,309,722	482,407	2.84	25.5
355.00	MEASURING AND REGULATING STATION EQUIPMENT	60-R2.5	3,204,486.26	665,764	2,538,722	58,732	1.83	43.2
357.00	OTHER EQUIPMENT	30-R2.5	30,183.87	30,184	0	0	-	-
	TOTAL UNDERGROUND STORAGE PLANT		37,438,988.56	9,798,425	27,640,565	968,334	2.59	

PEOPLES NATURAL GAS COMPANY LLC

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVE, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF DECEMBER 31, 2027

DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF DECEMBER 31, 2027 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING LIFE (8)=(5)/(6)
					AMOUNT (6)	RATE (7)=(6)/(3)	
TRANSMISSION PLANT							
365.02	80-R4	8,121,129.68	3,060,664	5,060,466	87,382	1.08	57.9
366.01	60-R3	2,163,704.78	1,249,663	914,042	26,671	1.23	34.3
366.02	55-R2.5	1,729,039.50	1,135,512	593,528	17,289	1.00	34.3
366.03	45-R2	94,788.96	81,645	13,144	676	0.71	19.4
367.00	80-R2.5	340,064,648.76	107,876,550	232,188,099	4,344,630	1.28	53.4
368.00	42-S0.5	23,699,523.15	9,948,125	13,751,398	572,947	2.42	24.0
369.00	48-R1.5	53,753,938.92	20,314,582	33,439,357	1,170,894	2.18	28.6
371.00	35-R1	2,650,785.29	1,405,570	1,245,215	61,241	2.31	20.3
TOTAL TRANSMISSION PLANT		432,277,559.04	145,072,311	287,205,249	6,281,730	1.45	
DISTRIBUTION PLANT							
374.02	75-R4	13,850,177.11	3,645,783	10,204,394	184,997	1.34	55.2
375.00	65-R2	7,330,358.73	3,563,575	3,766,784	87,613	1.20	43.0
	85-R1 *	24,813,854.42	18,663,628	6,150,226	1,151,820	4.64	5.3
	65-R2	1,104,892.66	654,314	450,579	12,006	1.09	37.5
	TOTAL STRUCTURES AND IMPROVEMENTS		22,881,517	10,367,589	1,251,439	3.76	
376.00	72-R1.5	2,362,725,305.24	390,697,447	1,972,027,858	44,796,238	1.90	44.0
	72-R1.5	2,001,957,324.11	345,794,022	1,656,163,302	38,300,721	1.91	43.2
	TOTAL MAINS		736,491,469	3,628,191,160	83,096,959	1.90	
378.00	55-R1.5	194,519,574.82	42,254,289	152,265,286	4,670,074	2.40	32.6
380.00	55-R2	1,121,478,959.05	350,377,610	771,101,349	22,700,627	2.02	34.0
381.00	32-S0.5	120,526,843.86	10,440,885	110,085,959	6,386,479	5.30	17.2
381.20	20-S2	94,659,523.06	5,210,532	89,448,991	5,397,270	5.70	16.6
382.00	55-R2	55,977,212.20	10,124,405	45,852,807	1,744,941	3.12	26.3
385.00	50-R0.5	13,415,312.12	6,733,920	6,681,392	235,854	1.76	28.3
386.00	20-S4	14,644,532.28	14,644,532	0	0	-	-
387.00	26-R2.5	16,379,114.15	5,621,218	10,757,896	696,632	4.25	15.4
TOTAL DISTRIBUTION PLANT		6,043,382,983.81	1,208,426,160	4,834,956,823	126,365,272	2.09	
GENERAL PLANT							
389.02	60-R3	52,996.00	40,422	12,574	491	0.93	25.6
390.00	55-R1.5	77,635,142.95	7,915,272	69,719,871	2,086,609	2.69	33.4
	75-R0.5 *	8,282,580.98	7,348,795	933,786	865,312	10.45	1.1
	TOTAL STRUCTURES AND IMPROVEMENTS		15,264,067	70,653,657	2,951,921	3.44	

PEOPLES NATURAL GAS COMPANY LLC

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVE, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF DECEMBER 31, 2027

	DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	ORIGINAL COST AS OF DECEMBER 31, 2027 (3)	BOOK DEPRECIATION RESERVE (4)	FUTURE ACCRUALS (5)	CALCULATED		COMPOSITE REMAINING LIFE (8)=(5)/(6)
						ANNUAL ACCRUAL AMOUNT (6)	RATE (7)=(6)/(3)	
391.01	OFFICE FURNITURE AND EQUIPMENT - FURNITURE	20-SQ	2,706,224.41	2,127,471	578,753	78,123	2.89	7.4
391.02	OFFICE FURNITURE AND EQUIPMENT - COMPUTERS	5-SQ	1,516,313.79	1,749,828	(233,514)	0	-	-
391.03	OFFICE FURNITURE AND EQUIPMENT - EQUIPMENT	15-SQ	189,910.86	59,774	130,137	16,387	8.63	7.9
392.00	TRANSPORTATION EQUIPMENT							
	TRUCKS	10-L2.5	89,232,132.21	32,508,743	56,723,389	11,863,850	13.07	4.9
	TRAILERS	15-L2	7,075,815.96	(846,913)	7,922,729	870,209	12.30	9.1
	TOTAL TRANSPORTATION EQUIPMENT		96,307,948.17	31,661,830	64,646,118	12,533,859	13.01	
393.00	STORES EQUIPMENT	25-SQ	456.77	53	404	53	11.60	7.6
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	25-SQ	9,635,248.66	4,577,773	5,057,476	362,691	3.76	13.9
394.01	DUAL FUEL STATIONS	15-SQ	398,116.81	339,102	59,015	10,730	2.70	5.5
396.00	POWER OPERATED EQUIPMENT	15-L2	18,451,516.64	9,115,311	9,336,206	1,266,292	6.86	7.4
397.02	COMMUNICATION EQUIPMENT - TELEPHONE	15-SQ	20,191,221.95	8,417,510	11,773,712	1,597,550	7.91	7.4
397.03	COMMUNICATION EQUIPMENT - MICROWAVE	18-SQ	16,950,005.16	10,649,471	6,300,534	837,658	4.94	7.5
397.10	COMMUNICATION EQUIPMENT - STRUCTURES	25-SQ	28,654.98	5,306	23,349	3,659	12.77	6.4
397.20	COMMUNICATION EQUIPMENT - RADIO	15-SQ	632,755.53	180,909	451,847	203,323	32.13	2.2
398.00	MISCELLANEOUS EQUIPMENT	15-SQ	54,885.82	48,744	6,142	1,072	1.95	5.7
	TOTAL GENERAL PLANT		253,033,979.48	84,237,571	168,796,410	19,863,809	7.85	
	AMORTIZATION OF NET SALVAGE					8,068,283		
	TOTAL DEPRECIABLE GAS PLANT		7,071,681,444.40	1,576,014,025	5,495,667,424	181,181,596	2.56	
	NONDEPRECIABLE GAS PLANT							
301.00	ORGANIZATION		177,885.87					
302.00	FRANCHISES AND CONSENTS		71,371.20					
325.51	OTHER LAND AND LAND RIGHTS		47,094.57	2,031				
350.10	LAND AND LAND RIGHTS - LAND		46,820.26	1,382				
365.10	LAND AND LAND RIGHTS - LAND		381,342.73					
374.01	LAND AND LAND RIGHTS - LAND		1,061,018.46	30,228				
389.01	LAND AND LAND RIGHTS - LAND		4,665,894.27					
	TOTAL NONDEPRECIABLE GAS PLANT		6,451,427.36	33,641				
	TOTAL GAS PLANT		7,078,132,871.76	1,576,047,666				

* LIFESPAN PROCEDURE IS USED. SURVIVOR CURVE SHOWN IS INTERIM CURVE.

NOTES:

1) NEW ASSETS IN ACCOUNT 392.00 TRANSPORTATION EQUIPMENT - AUTOMOBILES, WILL USE A 22.12% RATE BASED ON A 6-L2.5 CURVE.

PEOPLES NATURAL GAS COMPANY LLC

TABLE 2. BRINGFORWARD TO DECEMBER 31, 2027 OF THE BOOK RESERVE AS OF NOVEMBER 30, 2026

ACCOUNT (1)	BOOK RESERVE AS OF NOVEMBER 30, 2026 (2)	DEPRECIATION ACCRUALS (3)	AMORTIZATION OF NET SALVAGE (4)	PROJECTED RETIREMENTS (5)	PROJECTED GROSS SALVAGE (6)	PROJECTED COST OF REMOVAL (7)	ACQUISITIONS AND ADJUSTMENTS (8)	PROJECTED BOOK RESERVE AS OF DECEMBER 31, 2027 (9)
DEPRECIABLE GAS PLANT								
303.00	1,842,722	486,028		984,538				1,344,212
303.01	43,095,107	12,980,000		10,188,256				45,886,851
303.02	1,046,770	1,245,302		1,737,412				554,660
303.03	17,462,987	123,305		2,683,689				14,902,603
325.01	83,442	1,074						84,516
325.02	10,206	184						10,390
325.03	13,606	225						13,831
325.04	1,042,773	24,030						1,066,803
325.51	2,031							2,031
327.00	5,510,164	243,715						5,753,879
328.00	52,765	2,800						55,565
329.00	1,047,385	23,692						1,071,077
330.00	10,461							10,461
331.00	2,781	102						2,883
332.00	33,706,307	1,625,612	586,592	1,121,603	11,166	580,801		34,247,273
333.00	18,863,126	1,638,531	192,219	226,269		113,135		20,354,472
334.00	3,070,895	59,304	3,318	1,984		992		3,130,540
337.00	(11,395)	2,116		1,178				(10,458)
350.10	1,382							1,382
350.11	11,485	437						11,922
350.21	41,226	2,226						43,452
351.00	967,443	44,170	140,975					1,152,588
352.01	(626,826)	199,574	603,894	123,350		61,675		(8,383)
352.02	96,922	93,526		65,599				124,849
352.11	161,937							161,937
352.12	239,520	5,085						244,605
352.21	205,980	9,659						215,639
352.31	205,251							205,251
353.00	2,247,482	50,900						2,298,382
354.00	4,158,714	495,958		2,438				4,652,235
355.00	617,119	52,290		3,645				665,764
357.00	30,184							30,184
365.02	2,977,552	83,112						3,060,664
366.01	1,222,833	26,830						1,249,663
366.02	1,118,049	17,463						1,135,512
366.03	80,953	692						81,645
367.00	103,771,080	4,242,724	27,296	137,620	617	27,548		107,876,550
368.00	9,391,389	567,909		11,173				9,948,125
369.00	18,929,378	1,068,418	482,548	110,508		55,254		20,314,582
371.00	1,341,951	63,619						1,405,570
374.01	30,228							30,228
374.02	3,469,425	176,358						3,645,783
375.00	3,879,932	36,776	145	353,279				3,563,575
375.00	17,346,074	1,317,554						18,663,628
375.00	642,160	12,154						654,314
376.00	352,353,816	41,085,590	4,858,072	5,075,564	13,315	2,537,782		390,697,447
376.00	313,151,924	35,981,609		3,339,511				345,794,022

PEOPLES NATURAL GAS COMPANY LLC

TABLE 2. BRINGFORWARD TO DECEMBER 31, 2027 OF THE BOOK RESERVE AS OF NOVEMBER 30, 2026

ACCOUNT (1)	BOOK RESERVE AS OF NOVEMBER 30, 2026 (2)	DEPRECIATION ACCRUALS (3)	AMORTIZATION OF NET SALVAGE (4)	PROJECTED RETIREMENTS (5)	PROJECTED GROSS SALVAGE (6)	PROJECTED COST OF REMOVAL (7)	ACQUISITIONS AND ADJUSTMENTS (8)	PROJECTED BOOK RESERVE AS OF DECEMBER 31, 2027 (9)
378.00	39,368,042	3,989,079	46,079	999,053		149,858		42,254,289
380.00	334,628,720	20,937,679	3,395,517	5,722,871		2,861,435		350,377,610
381.00	31,762,372	6,584,017		27,905,504				10,440,885
381.20	1,621,900	3,588,632						5,210,532
382.00	20,524,431	1,484,951	4,388	11,791,496		97,868		10,124,405
385.00	6,488,420	245,500						6,733,920
386.00	14,644,532							14,644,532
387.00	5,019,221	708,409		106,412				5,621,218
389.02	39,924	498						40,422
390.00	6,997,517	1,791,457		873,702				7,915,272
390.00	6,952,636	560,106		163,947				7,348,795
391.01	2,102,052	76,802		51,382				2,127,471
391.02	6,042,176			4,292,348				1,749,828
391.03	40,232	19,542						59,774
392.02	29,506,879	11,457,796	(2,549,964)	7,405,562	1,481,112	(18,482)		32,508,743
392.03	(715,234)	812,902		944,581				(846,913)
393.00	0	53						53
394.00	4,622,089	314,298		358,614				4,577,773
394.01	328,512	10,590						339,102
396.00	8,852,449	1,233,623		970,761				9,115,311
397.02	8,069,845	1,602,007	(1,245)	1,254,886	1,789			8,417,510
397.03	9,820,616	828,855						10,649,471
397.10	1,727	3,579						5,306
397.20	1,092	200,519		20,702				180,909
398.00	47,685	1,059						48,744
TOTAL DEPRECIABLE GAS PLANT	1,501,684,531	160,542,505	7,789,834	89,029,437	1,508,000	6,447,868	0	1,576,047,666

PEOPLES NATURAL GAS COMPANY LLC

TABLE 3. CALCULATION OF DEPRECIATION ACCRUALS FOR THE THIRTEEN MONTHS ENDED DECEMBER 31, 2027

DEPRECIABLE GROUP		ORIGINAL COST AS OF NOVEMBER 30, 2026	ORIGINAL COST AS OF DECEMBER 31, 2027	COMPOSITE ACCRUAL RATE	ANNUAL ACCRUAL AMOUNT *
(1)		(2)	(3)	(4)	(5)
DEPRECIABLE GAS PLANT					
INTANGIBLE PLANT					
303.00	MISCELLANEOUS INTANGIBLE PLANT				
	CIAC	18,961,179.44	18,840,458.17	2.60	486,028
	OTHER	69,644,068.53	68,394,812.91	19.41	12,980,000
	MAJOR	11,876,465.20	11,663,428.53	10.92	1,245,302
	SAP	18,344,947.01	18,015,880.52	0.70	123,305
	TOTAL MISCELLANEOUS INTANGIBLE PLANT	118,826,660.18	116,914,580.13		14,834,635
PRODUCTION PLANT					
325.01	PRODUCING LANDS	139,440.21	139,440.21	0.77	1,074
325.02	PRODUCING LEASEHOLDS	14,480.68	14,480.68	1.29	184
325.03	GAS RIGHTS	20,984.28	20,984.28	1.07	225
325.04	RIGHTS OF WAY	2,132,063.08	2,236,969.16	1.10	24,030
327.00	FIELD COMPRESSOR STATION EQUIPMENT	12,308,841.37	12,308,841.37	1.98	243,715
328.00	FIELD MEASURING AND REGULATING STATION STRUCTURES	100,014.85	100,014.85	2.80	2,800
329.00	OTHER STRUCTURES	1,926,213.73	1,926,213.73	1.23	23,692
330.00	PRODUCING GAS WELLS - WELL CONSTRUCTION	9,214.49	9,214.49	-	0
331.00	PRODUCING GAS WELLS - WELL EQUIPMENT	2,960.52	2,960.52	3.45	102
332.00	FIELD LINES	88,238,773.81	116,633,035.71	1.63	1,625,612
333.00	FIELD COMPRESSOR STATION EQUIPMENT	48,593,534.02	51,277,480.67	3.28	1,638,531
334.00	FIELD MEASURING AND REGULATING STATION EQUIPMENT	3,636,010.12	3,954,071.96	1.57	59,304
337.00	OTHER EQUIPMENT	10,824.20	9,645.75	21.83	2,116
	TOTAL PRODUCTION PLANT	157,133,355.36	188,633,353.38		3,621,384
UNDERGROUND STORAGE PLANT					
350.11	LAND - GAS	16,823.84	16,823.84	2.60	437
350.21	RIGHTS OF WAY	153,027.64	171,877.14	1.37	2,226
351.00	STRUCTURES AND IMPROVEMENTS	2,400,554.19	2,400,554.19	1.84	44,170
352.01	WELLS - CONSTRUCTION	3,405,261.40	6,365,663.59	4.04	199,574
352.02	WELLS - EQUIPMENT	1,810,956.79	3,385,332.42	3.56	93,526
352.11	LEASEHOLDS	161,936.70	161,936.70	-	0
352.12	STORAGE RIGHTS	413,405.93	413,405.93	1.23	5,085
352.21	RESERVOIRS	433,138.50	433,138.50	2.23	9,659
352.31	NON-RECOVERABLE NATURAL GAS	205,250.77	205,250.77	-	0
353.00	LINES	3,688,378.84	3,688,378.84	1.38	50,900
354.00	COMPRESSOR STATION EQUIPMENT	16,773,951.91	16,961,956.51	2.94	495,958
355.00	MEASURING AND REGULATING STATION EQUIPMENT	2,694,747.02	3,204,486.26	1.79	52,290
357.00	OTHER EQUIPMENT	30,183.87	30,183.87	-	0
	TOTAL UNDERGROUND STORAGE PLANT	32,187,617.40	37,438,988.56		953,825
TRANSMISSION PLANT					
365.02	RIGHTS OF WAY	7,560,459.56	8,121,129.68	1.06	83,112
366.01	STRUCTURES AND IMPROVEMENTS - COMPRESSOR STATION	2,163,704.78	2,163,704.78	1.24	26,830
366.02	STRUCTURES AND IMPROVEMENTS - MEASURING AND REGULATING	1,729,039.50	1,729,039.50	1.01	17,463
366.03	STRUCTURES AND IMPROVEMENTS - OTHER	94,788.96	94,788.96	0.73	692
367.00	MAINS	329,280,077.50	340,064,648.76	1.27	4,242,724
368.00	COMPRESSOR STATION EQUIPMENT	22,837,776.03	23,699,523.15	2.44	567,909
369.00	MEASURING AND REGULATING STATION EQUIPMENT	48,576,959.65	53,753,938.92	2.10	1,068,418
371.00	OTHER EQUIPMENT	2,650,785.29	2,650,785.29	2.40	63,619
	TOTAL TRANSMISSION PLANT	414,893,591.27	432,277,559.04		6,070,769
DISTRIBUTION PLANT					
374.02	RIGHTS OF WAY	12,669,747.70	13,850,177.11	1.33	176,358
375.00	STRUCTURES AND IMPROVEMENTS				
	MEASURING AND REGULATING	5,225,191.37	7,330,358.73	0.59	36,776
	OTHER				
	MAJOR STRUCTURES	24,813,854.42	24,813,854.42	3.10	1,317,554
	MINOR STRUCTURES	1,104,892.66	1,104,892.66	1.42	12,154
	TOTAL STRUCTURES AND IMPROVEMENTS	31,143,938.45	33,249,105.81		1,366,484
376.00	MAINS				
	LOW PRESSURE	2,076,101,781.04	2,362,725,305.24	1.87	41,085,590
	REGULAR PRESSURE	1,813,370,922.29	2,001,957,324.11	1.90	35,981,609
	TOTAL MAINS	3,889,472,703.33	4,364,682,629.35		77,067,199

PEOPLES NATURAL GAS COMPANY LLC

TABLE 3. CALCULATION OF DEPRECIATION ACCRUALS FOR THE THIRTEEN MONTHS ENDED DECEMBER 31, 2027

DEPRECIABLE GROUP		ORIGINAL COST AS OF NOVEMBER 30, 2026	ORIGINAL COST AS OF DECEMBER 31, 2027	COMPOSITE ACCRUAL RATE	ANNUAL ACCRUAL AMOUNT *
(1)		(2)	(3)	(4)	(5)
378.00	MEASURING AND REGULATING STATION EQUIPMENT - GENERAL	159,321,070.99	194,519,574.82	2.28	3,989,079
380.00	SERVICES	1,015,208,273.79	1,121,478,959.05	1.97	20,937,679
381.00	METERS	143,016,571.31	120,526,843.86	4.26	6,584,017
381.20	METERS - INTELIS	45,917,535.03	94,659,523.06	5.80	3,588,632
382.00	METER INSTALLATIONS	67,768,708.33	55,977,212.20	2.40	1,484,951
385.00	INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT	13,415,312.12	13,415,312.12	1.83	245,500
386.00	OTHER PROPERTY ON CUSTOMER PREMISES	14,644,532.28	14,644,532.28	-	0
387.00	OTHER EQUIPMENT	16,485,526.11	16,379,114.15	4.31	708,409
TOTAL DISTRIBUTION PLANT		5,409,063,919.44	6,043,382,983.81		116,148,307
GENERAL PLANT					
389.02	LAND RIGHTS AND RIGHTS OF WAY	52,996.00	52,996.00	0.94	498
390.00	STRUCTURES AND IMPROVEMENTS				
	OWNED	59,974,285.46	77,635,142.95	2.62	1,791,457
	LEASED - NORTH SHORE	8,148,983.51	8,282,580.98	6.82	560,106
	TOTAL STRUCTURES AND IMPROVEMENTS	68,123,268.97	85,917,723.93		2,351,563
391.01	OFFICE FURNITURE AND EQUIPMENT - FURNITURE	2,757,606.49	2,706,224.41	2.81	76,802
391.02	OFFICE FURNITURE AND EQUIPMENT - COMPUTERS	5,808,661.56	1,516,313.79	-	0
391.03	OFFICE FURNITURE AND EQUIPMENT - EQUIPMENT	189,910.86	189,910.86	10.29	19,542
392.00	TRANSPORTATION EQUIPMENT				
	TRUCKS	84,693,239.36	89,232,132.21	13.19	11,457,796
	TRAILERS	6,496,879.25	7,075,815.96	12.00	812,902
	TOTAL TRANSPORTATION EQUIPMENT	91,190,118.61	96,307,948.17		12,270,697
393.00	STORES EQUIPMENT	456.77	456.77	11.60	53
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	9,012,562.37	9,635,248.66	3.38	314,298
394.01	DUAL FUEL STATIONS	398,116.81	398,116.81	2.66	10,590
396.00	POWER OPERATED EQUIPMENT	17,856,534.17	18,451,516.64	6.80	1,233,623
397.02	COMMUNICATION EQUIPMENT - TELEPHONE	18,273,988.78	20,191,221.95	8.38	1,602,007
397.03	COMMUNICATION EQUIPMENT - MICROWAVE	16,950,005.16	16,950,005.16	4.89	828,855
397.10	COMMUNICATION EQUIPMENT - STRUCTURES	28,654.98	28,654.98	12.49	3,579
397.20	COMMUNICATION EQUIPMENT - RADIO	653,457.96	632,755.53	31.65	200,519
398.00	MISCELLANEOUS EQUIPMENT	54,885.82	54,885.82	1.93	1,059
TOTAL GENERAL PLANT		231,351,225.31	253,033,979.48		18,913,686
TOTAL DEPRECIABLE GAS PLANT		6,363,456,368.96	7,071,681,444.40		160,542,605

* ANNUAL ACCRUAL AMOUNT BASED ON MONTHLY AVERAGES

PEOPLES NATURAL GAS COMPANY LLC
TABLE 4. AMORTIZATION OF EXPERIENCED AND ESTIMATED NET SALVAGE

ACCOUNT (1)	2023		2024		2025		2026		2027		NET SALVAGE (12)	SALVAGE ACCURAL (13)=(12)/5
	COST OF REMOVAL (4)	GROSS SALVAGE (5)	COST OF REMOVAL (6)	GROSS SALVAGE (7)	COST OF REMOVAL (8)	GROSS SALVAGE (9)	COST OF REMOVAL (10)	GROSS SALVAGE (11)	COST OF REMOVAL (2)	GROSS SALVAGE (3)		
332.00	2,544,899		12,327		4,320		136,054	2,709	560,801	11,166	(3,244,526)	(648,905)
333.00							771,950		113,135		(885,084)	(177,017)
334.00							453		992		(1,446)	(289)
351.00			178,852		471,802						(650,854)	(130,131)
352.00	181,890		284,716		2,280,536		43,233		61,675		(2,852,050)	(570,410)
367.00	1,774		35,301		57,068		24,600	551	27,548	617	(145,122)	(29,024)
369.00			378,692		1,824,637		25,799		55,254		(2,284,382)	(456,876)
375.00			671								(671)	(134)
376.00	8,652,109		6,640,588		4,598,591		2,204,043	11,564	2,537,782	13,315	(24,608,233)	(4,921,647)
378.00	4,928		94,523		(28,955)		140,023		149,858		(360,377)	(72,075)
380.00	743,999		1,122,598		11,295,684		2,461,351		2,861,435		(18,485,068)	(3,697,014)
382.00	1,178			8,391,000	(79,096)		82,812		97,868		(102,762)	(20,552)
392.00					(84,065)	1,864,607	(17,648)	1,414,267	(18,482)	1,481,112	13,271,180	2,654,236
397.02								5,987		1,789	7,775	1,555
TOTAL	12,130,777	0	8,748,267	8,391,000	20,340,522	1,864,607	5,872,670	1,435,077	6,447,868	1,508,000	(40,341,420)	(8,068,283)

**PART II. DETAILED DEPRECIATION
CALCULATIONS**

CUMULATIVE DEPRECIATED ORIGINAL COST

1874	5.00	5.00		
1875	9,920.00	9,920.00		
1876	956.00	956.00		
1877	121.00	121.00		
1881	12.00	12.00		
1885	1,783.00	1,606.00	177.00	177.00
1886	5,184.00	5,184.00		177.00
1887	13,626.00	13,626.00		177.00
1888	13,633.00	12,607.00	1,026.00	1,203.00
1889	21,173.00	18,961.00	2,212.00	3,415.00
1890	46,675.00	46,669.00	6.00	3,421.00
1891	41,893.00	37,949.00	3,944.00	7,365.00
1892	14,869.00	14,869.00		7,365.00
1893	20,549.00	20,543.00	6.00	7,371.00
1894	25,156.00	25,028.00	128.00	7,499.00
1895	8,747.00	8,747.00		7,499.00
1896	29,376.00	28,252.00	1,124.00	8,623.00
1897	23,746.00	23,497.00	249.00	8,872.00
1898	32,528.00	32,513.00	15.00	8,887.00
1899	81,122.00	79,708.00	1,414.00	10,301.00
1900	733,599.00	700,804.00	32,795.00	43,096.00
1901	224,873.00	222,234.00	2,639.00	45,735.00
1902	347,196.00	338,859.00	8,337.00	54,072.00
1903	238,164.00	232,173.00	5,991.00	60,063.00
1904	129,860.00	126,822.00	3,038.00	63,101.00
1905	262,583.00	258,576.00	4,007.00	67,108.00
1906	179,576.00	175,684.00	3,892.00	71,000.00
1907	171,376.00	170,670.00	706.00	71,706.00
1908	198,143.00	188,412.00	9,731.00	81,437.00
1909	100,656.00	98,266.00	2,390.00	83,827.00
1910	79,748.00	78,156.00	1,592.00	85,419.00
1911	85,065.00	82,182.00	2,883.00	88,302.00
1912	85,343.00	84,040.00	1,303.00	89,605.00
1913	236,058.00	234,365.00	1,693.00	91,298.00
1914	280,350.00	278,409.00	1,941.00	93,239.00
1915	119,401.00	115,449.00	3,952.00	97,191.00
1916	116,565.00	112,284.00	4,281.00	101,472.00
1917	171,067.00	168,080.00	2,987.00	104,459.00
1918	89,169.00	86,564.00	2,605.00	107,064.00
1919	91,917.00	90,237.00	1,680.00	108,744.00
1920	53,370.00	52,827.00	543.00	109,287.00
1921	122,906.00	114,814.00	8,092.00	117,379.00
1922	184,193.00	180,482.00	3,711.00	121,090.00
1923	198,370.00	189,442.00	8,928.00	130,018.00
1924	335,210.00	316,716.00	18,494.00	148,512.00
1925	461,090.00	440,771.00	20,319.00	168,831.00
1926	391,653.00	361,380.00	30,273.00	199,104.00
1927	345,082.00	300,792.00	44,290.00	243,394.00
1928	265,292.00	226,567.00	38,725.00	282,119.00
1929	285,114.00	244,066.00	41,048.00	323,167.00
1930	311,222.00	265,447.00	45,775.00	368,942.00
1931	251,091.00	216,016.00	35,075.00	404,017.00
1932	169,192.00	140,541.00	28,651.00	432,668.00
1933	102,207.00	79,424.00	22,783.00	455,451.00
1934	71,815.00	51,830.00	19,985.00	475,436.00
1935	149,737.00	129,939.00	19,798.00	495,234.00
1936	165,420.00	137,864.00	27,556.00	522,790.00

1937	393,833.00	332,973.00	60,860.00	583,650.00	
1938	331,671.00	271,749.00	59,922.00	643,572.00	
1939	477,570.00	425,813.00	51,757.00	695,329.00	
1940	495,957.00	414,813.00	81,144.00	776,473.00	
1941	787,251.00	641,191.00	146,060.00	922,533.00	
1942	435,921.00	361,571.00	74,350.00	996,883.00	
1943	296,622.00	248,011.00	48,611.00	1,045,494.00	
1944	420,235.00	362,328.00	57,907.00	1,103,401.00	
1945	266,080.00	218,896.00	47,184.00	1,150,585.00	
1946	512,766.00	400,034.00	112,732.00	1,263,317.00	
1947	643,843.00	492,790.00	151,053.00	1,414,370.00	
1948	1,308,137.00	1,091,523.00	216,614.00	1,630,984.00	
1949	2,317,593.00	1,948,786.00	368,807.00	1,999,791.00	
1950	2,884,539.00	2,385,579.00	498,960.00	2,498,751.00	
1951	2,480,477.00	1,854,674.00	625,803.00	3,124,554.00	0.10
1952	3,764,041.00	3,050,287.00	713,754.00	3,838,308.00	0.10
1953	3,382,679.00	2,628,575.00	754,104.00	4,592,412.00	0.10
1954	2,353,252.00	1,856,537.00	496,715.00	5,089,127.00	0.10
1955	3,608,337.00	2,751,272.00	857,065.00	5,946,192.00	0.10
1956	3,602,269.00	2,713,385.00	888,884.00	6,835,076.00	0.10
1957	4,767,011.00	3,582,548.00	1,184,463.00	8,019,539.00	0.10
1958	5,476,792.00	3,936,497.00	1,540,295.00	9,559,834.00	0.20
1959	7,338,478.00	5,244,411.00	2,094,067.00	11,653,901.00	0.20
1960	5,157,878.00	3,585,987.00	1,571,891.00	13,225,792.00	0.20
1961	7,533,278.00	5,302,345.00	2,230,933.00	15,456,725.00	0.30
1962	6,479,274.00	4,509,498.00	1,969,776.00	17,426,501.00	0.30
1963	7,605,051.00	5,477,082.00	2,127,969.00	19,554,470.00	0.40
1964	7,757,370.00	5,458,891.00	2,298,479.00	21,852,949.00	0.40
1965	7,305,776.00	4,917,852.00	2,387,924.00	24,240,873.00	0.40
1966	9,041,163.00	6,095,746.00	2,945,417.00	27,186,290.00	0.50
1967	8,793,107.00	5,638,338.00	3,154,769.00	30,341,059.00	0.60
1968	10,357,510.00	6,723,036.00	3,634,474.00	33,975,533.00	0.60
1969	9,643,151.00	6,199,917.00	3,443,234.00	37,418,767.00	0.70
1970	8,251,533.00	5,305,545.00	2,945,988.00	40,364,755.00	0.70
1971	11,306,991.00	7,077,521.00	4,229,470.00	44,594,225.00	0.80
1972	16,492,516.00	10,033,803.00	6,458,713.00	51,052,938.00	0.90
1973	17,251,566.00	10,257,006.00	6,994,560.00	58,047,498.00	1.10
1974	16,046,617.00	9,715,883.00	6,330,734.00	64,378,232.00	1.20
1975	11,000,953.00	6,785,407.00	4,215,546.00	68,593,778.00	1.20
1976	10,562,254.00	6,654,693.00	3,907,561.00	72,501,339.00	1.30
1977	16,538,550.00	9,880,253.00	6,658,297.00	79,159,636.00	1.40
1978	22,893,431.00	14,817,977.00	8,075,454.00	87,235,090.00	1.60
1979	22,934,396.00	13,392,035.00	9,542,361.00	96,777,451.00	1.80
1980	25,540,516.00	14,373,290.00	11,167,226.00	107,944,677.00	2.00
1981	38,102,602.00	21,510,491.00	16,592,111.00	124,536,788.00	2.30
1982	29,901,270.00	16,973,954.00	12,927,316.00	137,464,104.00	2.50
1983	20,940,645.00	13,792,452.00	7,148,193.00	144,612,297.00	2.60
1984	33,168,621.00	21,704,607.00	11,464,014.00	156,076,311.00	2.80
1985	43,213,555.00	26,767,164.00	16,446,391.00	172,522,702.00	3.10
1986	29,581,343.00	17,811,853.00	11,769,490.00	184,292,192.00	3.40
1987	51,201,849.00	31,386,227.00	19,815,622.00	204,107,814.00	3.70
1988	35,293,033.00	21,213,582.00	14,079,451.00	218,187,265.00	4.00
1989	35,810,942.00	20,539,273.00	15,271,669.00	233,458,934.00	4.20
1990	50,752,074.00	29,214,513.00	21,537,561.00	254,996,495.00	4.60
1991	43,652,560.00	24,344,262.00	19,308,298.00	274,304,793.00	5.00
1992	52,790,614.00	29,319,268.00	23,471,346.00	297,776,139.00	5.40
1993	41,993,707.00	22,871,398.00	19,122,309.00	316,898,448.00	5.80

1994	45,067,564.00	24,291,609.00	20,775,955.00	337,674,403.00	6.10
1995	45,256,620.00	23,814,888.00	21,441,732.00	359,116,135.00	6.50
1996	36,289,276.00	18,253,414.00	18,035,862.00	377,151,997.00	6.90
1997	48,255,898.00	24,344,078.00	23,911,820.00	401,063,817.00	7.30
1998	33,852,848.00	16,244,425.00	17,608,423.00	418,672,240.00	7.60
1999	39,426,064.00	18,665,588.00	20,760,476.00	439,432,716.00	8.00
2000	31,512,774.00	13,997,654.00	17,515,120.00	456,947,836.00	8.30
2001	51,909,137.00	22,820,121.00	29,089,016.00	486,036,852.00	8.80
2002	65,434,113.00	28,354,820.00	37,079,293.00	523,116,145.00	9.50
2003	59,754,762.00	24,874,664.00	34,880,098.00	557,996,243.00	10.20
2004	68,858,702.00	27,767,351.00	41,091,351.00	599,087,594.00	10.90
2005	95,647,248.00	46,943,217.00	48,704,031.00	647,791,625.00	11.80
2006	73,925,406.00	28,244,713.00	45,680,693.00	693,472,318.00	12.60
2007	67,688,403.00	24,968,564.00	42,719,839.00	736,192,157.00	13.40
2008	66,601,899.00	24,140,783.00	42,461,116.00	778,653,273.00	14.20
2009	72,073,582.00	26,475,865.00	45,597,717.00	824,250,990.00	15.00
2010	61,075,600.00	18,978,074.00	42,097,526.00	866,348,516.00	15.80
2011	82,352,006.00	28,688,721.00	53,663,285.00	920,011,801.00	16.70
2012	109,618,326.00	33,132,485.00	76,485,841.00	996,497,642.00	18.10
2013	83,344,022.00	23,179,693.00	60,164,329.00	1,056,661,971.00	19.20
2014	97,041,082.00	25,668,980.00	71,372,102.00	1,128,034,073.00	20.50
2015	104,038,108.00	31,783,012.00	72,255,096.00	1,200,289,169.00	21.80
2016	112,544,845.00	29,603,319.00	82,941,526.00	1,283,230,695.00	23.30
2017	190,988,973.00	49,241,883.00	141,747,090.00	1,424,977,785.00	25.90
2018	222,054,737.00	44,602,538.00	177,452,199.00	1,602,429,984.00	29.20
2019	228,417,577.00	42,841,119.00	185,576,458.00	1,788,006,442.00	32.50
2020	230,690,742.00	41,038,224.00	189,652,518.00	1,977,658,960.00	36.00
2021	330,045,591.00	55,888,864.00	274,156,727.00	2,251,815,687.00	41.00
2022	380,143,578.00	49,723,046.00	330,420,532.00	2,582,236,219.00	47.00
2023	569,403,129.00	74,803,287.00	494,599,842.00	3,076,836,061.00	56.00
2024	565,058,080.00	57,405,236.00	507,652,844.00	3,584,488,905.00	65.20
2025	484,676,788.00	29,225,513.00	455,451,275.00	4,039,940,180.00	73.50
2026	699,943,652.00	28,327,478.00	671,616,174.00	4,711,556,354.00	85.70
2027	797,254,512.00	13,143,450.00	784,111,062.00	5,495,667,416.00	100.00
TOTAL	7,071,681,441.00	1,576,014,025.00	5,495,667,416.00		

UTILITY PLANT IN SERVICE

SURVIVOR CURVE.. 40-SQUARE
NET SALVAGE PERCENT: 0

2014	6,326,082.35	2,135,053	1,105,696	5,220,386	26.50	196,996
2016	51,140.08	14,703	7,614	43,526	28.50	1,527
2025	3,352.12	210	109	3,243	37.71	86
2026	11,596,067.38	434,853	225,201	11,370,866	38.50	295,347
2027	863,816.25	10,798	5,592	858,224	39.50	21,727
	18,840,458.17	2,595,617	1,344,212	17,496,246		515,683

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.90 2.74

SURVIVOR CURVE.. 5-SQUARE
NET SALVAGE PERCENT: 0

2012	378,517.25	378,517	378,517			
2013	59,603.99	59,604	59,604			
2016	386,680.24	386,680	386,680			
2017	3,453.67	3,454	3,454			
2018	428,784.77	428,785	428,785			
2020	1,950,748.00	1,950,748	1,950,748			
2021	5,600,165.97	5,600,166	5,600,166			
2022	5,113,772.10	5,113,772	5,113,772			
2023	23,450,186.44	21,105,168	18,110,727	5,339,459	1.00	5,339,459
2024	21,046,221.92	14,732,355	12,642,101	8,404,121	1.50	5,602,747
2025	1,037,678.60	518,839	445,225	592,454	2.50	236,982
2027	8,938,999.96	893,900	767,072	8,171,928	4.50	1,815,984
	68,394,812.91	51,171,988	45,886,851	22,507,962		12,995,172

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 1.70 19.00

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2015	252,455.31	210,379	23,347	229,108	2.50	91,643
2016	247,428.99	189,696	21,052	226,377	3.50	64,679
2017	172,532.82	120,773	13,403	159,130	4.50	35,362
2019	2,957,812.15	1,676,103	186,009	2,771,803	6.50	426,431
2020	2,520,158.83	1,260,079	139,840	2,380,319	7.50	317,376
2021	1,573,706.59	681,934	75,679	1,498,028	8.50	176,239
2022	1,300,522.78	476,863	52,921	1,247,602	9.50	131,327
2023	1,069,424.78	320,827	35,605	1,033,820	10.50	98,459
2024	45,010.63	10,502	1,165	43,846	11.50	3,813
2027	1,524,375.65	50,807	5,639	1,518,737	14.50	104,740
	11,663,428.53	4,997,963	554,660	11,108,769		1,450,069

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.70 12.43

SURVIVOR CURVE.. 10-SQUARE
NET SALVAGE PERCENT: 0

2012	612,517.49	612,517	612,517			
2013	123,593.19	123,593	123,593			
2014	282,124.15	282,124	282,124			
2015	5,186,370.95	5,186,371	5,186,371			
2016	1,950,798.03	1,950,798	1,950,798			
2017	275,003.61	275,004	275,004			
2019	3,172,019.57	2,696,217	3,172,020			
2020	265,093.59	198,820	265,094			
2021	1,042,229.40	677,449	1,036,872	5,357	3.50	1,531
2022	517.92	285	436	82	4.56	18
2023	2,246,839.82	1,011,078	1,547,509	699,331	5.50	127,151
2024	504,150.44	176,453	270,071	234,079	6.50	36,012
2027	2,354,622.36	117,731	180,194	2,174,428	9.50	228,887
	18,015,880.52	13,308,440	14,902,603	3,113,278		393,599

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.90 2.18

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1938	2,365.49	2,180	2,365			
1954	662.55	559	663			
1966	474.91	354	475			
1983	5,657.27	3,399	5,657			
2008	130,279.99	35,827	75,356	54,924	51.43	1,068
	139,440.21	42,319	84,516	54,924		1,068

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 51.40 0.77

SURVIVOR CURVE: IOWA 45-L0
NET SALVAGE PERCENT: 0

1890	13.00	11	13			
1897	620.75	505	621			
1899	305.00	246	305			
1900	263.11	211	263			
1901	378.47	303	378			
1908	11.01	9	11			
1909	45.50	35	45			
1910	1.00	1	1			
1914	105.50	80	103	2		
1915	25.11	19	25			
1916	58.60	44	57	2		
1917	2.75	2	3			
1919	56.45	42	54	2		
1921	34.54	25	32	3		
1922	16.94	12	15	2		
1926	110.00	78	101	9	9.00	1
1931	44.62	31	40	5		
1937	39.01	26	34	5		
1941	198.30	129	166	32	16.00	2
1943	103.13	66	85	18	18.00	1
1945	15.81	10	13	3		
1946	4.87	3	4	1		
1947	22.60	14	18	5		
1948	100.00	62	80	20	20.00	1
1950	70.00	43	55	15	15.00	1
1953	166.24	99	128	38	19.00	2
1955	8.17	5	6	2		
1956	95.00	55	71	24	24.00	1
1957	187.00	107	138	49	16.33	3
1958	235.50	134	173	62	20.67	3
1959	280.00	158	204	76	19.00	4
1960	81.57	45	58	24	24.00	1
1961	332.30	184	237	95	19.00	5
1965	440.34	234	302	138	19.71	7
1966	37.55	20	26	12	12.00	1
1968	218.17	112	144	74	24.67	3
1970	23.61	12	15	9		
1971	728.26	362	467	261	21.75	12
1972	2,608.99	1,281	1,652	957	22.79	42
1973	116.76	57	74	43	21.50	2
1974	969.05	464	599	370	23.13	16
1975	72.25	34	44	28	28.00	1
1977	1,441.00	664	856	585	24.38	24
1978	765.00	348	449	316	24.31	13
1979	82.70	37	48	35	35.00	1
1980	91.23	40	52	39	19.50	2
1982	195.00	84	108	87	29.00	3
1995	2,658.92	1,564	2,017	642	22.93	28
	14,480.68	8,107	10,390	4,091		180

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 22.70 1.24

SURVIVOR CURVE: IOWA 65-R2.5
NET SALVAGE PERCENT: 0

1901	1,674.68	1,675	1,675			
1910	22.78	22	23			
1923	1,969.07	1,840	1,969			
1924	25.41	24	25			
1927	43.28	40	43			
1938	1,018.56	899	1,011	8	8.00	1
1948	385.48	325	365	20	10.00	2
1959	410.49	322	362	48	16.00	3
1974	3,366.13	2,244	2,523	843	21.62	39
1976	518.00	336	378	140	23.33	6
1980	1,507.30	916	1,030	477	25.11	19
1981	923.36	552	621	302	25.17	12
2005	9,119.74	3,385	3,806	5,314	38.23	139
	20,984.28	12,580	13,831	7,153		221

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 32.40 1.05

SURVIVOR CURVE: IOWA 75-R2.5
NET SALVAGE PERCENT: 0

1875	1.00	1	1			
1888	137.42	137	137			
1889	130.52	130	131			
1890	1,873.28	1,861	1,873			
1891	1,372.99	1,359	1,373			
1892	924.40	912	924			
1893	699.05	688	699			
1894	3,023.40	2,963	3,023			
1895	218.54	213	219			
1896	1,259.83	1,226	1,260			
1897	1,642.16	1,592	1,642			
1898	1,409.64	1,362	1,410			
1899	2,897.90	2,789	2,898			
1900	2,874.97	2,756	2,875			
1901	10,007.57	9,558	10,008			
1902	4,457.09	4,241	4,457			
1903	7,504.57	7,112	7,505			
1904	5,966.84	5,634	5,967			
1905	9,920.15	9,333	9,920			
1906	6,726.76	6,305	6,727			
1907	4,784.95	4,470	4,785			
1908	3,068.84	2,857	3,069			
1909	6,824.39	6,332	6,824			
1910	3,360.27	3,108	3,360			
1911	2,637.18	2,431	2,637			
1912	5,250.72	4,826	5,251			
1913	3,998.45	3,664	3,998			
1914	5,211.01	4,759	5,211			
1915	3,526.25	3,210	3,526			
1916	9,327.91	8,465	9,328			
1917	11,339.21	10,257	11,339			
1918	5,939.02	5,355	5,939			
1919	10,034.15	9,017	10,034			
1920	8,068.68	7,226	8,069			
1921	9,874.37	8,813	9,874			
1922	13,323.29	11,851	13,323			
1923	12,530.40	11,107	12,530			
1924	23,943.35	21,150	23,943			
1925	11,074.30	9,747	11,074			
1926	10,137.05	8,889	10,137			
1927	11,336.06	9,905	11,336			
1928	3,835.08	3,338	3,835			
1929	3,297.79	2,860	3,298			
1930	7,617.74	6,580	7,618			
1931	362.17	312	362			
1932	666.58	571	667			
1933	1,250.79	1,067	1,251			
1934	192.41	163	192			
1935	1,203.89	1,018	1,204			
1936	3,095.27	2,607	3,095			
1937	896.03	751	896			
1938	3,164.87	2,640	3,165			
1939	2,701.60	2,242	2,699	3		
1940	3,447.99	2,847	3,428	20	10.00	2

SURVIVOR CURVE: IOWA 75-R2.5
NET SALVAGE PERCENT: 0

1941	4,750.60	3,902	4,698	53	13.25	4
1942	8,225.90	6,720	8,091	135	13.50	10
1943	7,793.53	6,330	7,621	173	14.42	12
1944	6,001.22	4,846	5,835	166	15.09	11
1945	4,000.28	3,211	3,866	134	14.89	9
1946	3,848.61	3,070	3,696	153	15.30	10
1947	1,776.17	1,407	1,694	82	16.40	5
1948	2,046.38	1,611	1,940	106	15.14	7
1949	1,945.89	1,521	1,831	115	16.43	7
1950	1,033.21	802	966	67	16.75	4
1951	6,743.01	5,192	6,251	492	16.97	29
1952	5,227.54	3,995	4,810	418	17.42	24
1953	3,419.00	2,592	3,121	298	18.63	16
1954	4,135.13	3,109	3,743	392	18.67	21
1955	3,153.08	2,350	2,829	324	19.06	17
1956	13,433.71	9,923	11,948	1,486	19.55	76
1957	5,572.78	4,079	4,911	662	20.06	33
1958	7,746.35	5,617	6,763	983	20.48	48
1959	8,167.31	5,864	7,060	1,107	21.29	52
1960	3,263.45	2,320	2,793	470	21.36	22
1961	3,904.37	2,747	3,307	597	22.11	27
1962	5,795.30	4,034	4,857	938	22.88	41
1963	5,947.65	4,094	4,929	1,019	23.16	44
1964	6,467.83	4,402	5,300	1,168	23.84	49
1965	5,532.56	3,722	4,481	1,052	24.47	43
1966	11,080.22	7,366	8,869	2,211	25.13	88
1967	5,622.33	3,692	4,445	1,177	25.59	46
1968	3,247.97	2,106	2,536	712	26.37	27
1969	4,053.75	2,594	3,123	931	27.38	34
1970	25,742.29	16,255	19,571	6,171	27.67	223
1971	51,947.30	32,353	38,954	12,993	28.31	459
1972	27,208.63	16,706	20,114	7,095	28.96	245
1973	21,080.78	12,758	15,361	5,720	29.64	193
1974	11,679.68	6,964	8,385	3,295	30.23	109
1975	15,635.72	9,181	11,054	4,582	30.96	148
1976	24,795.30	14,332	17,256	7,539	31.68	238
1977	9,701.66	5,517	6,643	3,059	32.20	95
1978	12,975.14	7,257	8,738	4,237	33.10	128
1979	18,968.48	10,430	12,558	6,410	33.74	190
1980	8,113.79	4,384	5,278	2,836	34.59	82
1981	16,632.83	8,824	10,624	6,009	35.14	171
1982	8,839.18	4,603	5,542	3,297	35.84	92
1983	11,652.16	6,741	8,116	3,536	32.44	109
1984	61,906.30	35,274	42,471	19,435	32.83	592
1985	15,651.08	8,780	10,571	5,080	33.20	153
1986	17,645.91	9,666	11,638	6,008	34.33	175
1987	4,920.02	2,650	3,191	1,729	34.58	50
1988	38,191.05	20,215	24,339	13,852	35.16	394
1989	8,167.54	4,214	5,074	3,094	35.98	86
1990	1,377.08	697	839	538	35.87	15
1991	28,921.57	14,357	17,286	11,636	37.06	314
1992	11,012.64	5,317	6,402	4,611	38.11	121
1993	5,340.25	2,524	3,039	2,301	38.35	60
1994	15,466.03	7,150	8,609	6,857	38.96	176
1995	5,379.78	2,413	2,905	2,475	39.92	62

SURVIVOR CURVE: IOWA 75-R2.5
NET SALVAGE PERCENT: 0

1996	12,980.22	5,683	6,843	6,137	40.38	152
1997	7,464.80	3,187	3,837	3,628	40.76	89
1998	3,484.33	1,439	1,733	1,751	41.69	42
1999	15.50	6	7	8		
2000	16,002.37	6,249	7,524	8,478	42.82	198
2001	26,595.59	10,008	12,050	14,546	43.95	331
2002	309,217.69	112,741	135,743	173,475	44.44	3,904
2003	155,944.14	55,017	66,242	89,702	44.94	1,996
2004	64,143.30	21,706	26,135	38,008	45.96	827
2005	520.27	170	205	315	45.00	7
2006	25,903.77	8,131	9,790	16,114	46.98	343
2007	586.03	177	213	373	46.63	8
2008	82,248.26	23,572	28,381	53,867	48.53	1,110
2009	356.34	98	118	238	47.60	5
2010	4.00	1	1	3		
2011	17,137.51	4,242	5,108	12,030	50.13	240
2012	44.11	10	12	32	32.00	1
2015	567.59	109	131	437	54.63	8
2021	692.28	72	87	605	55.00	11
2024	332,035.65	19,192	23,108	308,928	57.10	5,410
2025	92,164.89	3,871	4,661	87,504	57.01	1,535
2026	80,696.98	2,082	2,506	78,191	56.66	1,380
2027	104,906.08	955	1,150	103,756	54.44	1,906
	2,236,969.16	906,105	1,066,803	1,170,166		25,001

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 46.80 1.12

SURVIVOR CURVE: IOWA 50-S0.5
NET SALVAGE PERCENT: 0

1906	456.70	457	457			
1910	74.04	74	74			
1929	30.85	31	31			
1937	65.76	61	66			
1938	15,789.80	14,640	15,790			
1942	15.48	14	15			
1944	26.10	23	26			
1945	62.03	55	62			
1947	109.05	95	109			
1952	6,242.77	5,199	6,087	156	8.21	19
1956	25,047.82	20,163	23,606	1,442	9.74	148
1957	1,353.14	1,080	1,264	89	9.89	9
1958	34.99	28	33	2		
1959	13.86	11	13	1		
1960	603.38	469	549	54	10.80	5
1962	2,018.73	1,539	1,802	217	12.06	18
1963	1,533.76	1,158	1,356	178	11.87	15
1964	43,478.50	32,496	38,045	5,434	12.64	430
1967	3,629.38	2,631	3,080	549	13.73	40
1968	5,768.79	4,137	4,843	926	14.25	65
1969	479.85	341	399	81	13.50	6
1970	1,385.27	972	1,138	247	14.53	17
1971	23,326.32	16,184	18,948	4,378	15.31	286
1972	3,121.79	2,142	2,508	614	15.74	39
1973	786.18	533	624	162	16.20	10
1974	139,894.30	93,701	109,703	30,191	16.51	1,829
1975	609.27	403	472	137	17.13	8
1976	705.18	461	540	165	16.50	10
1977	3,035.23	1,958	2,292	743	17.69	42
1978	6,870.73	4,373	5,120	1,751	18.24	96
1980	11,213.10	6,943	8,129	3,084	19.04	162
1982	703.50	423	495	208	20.80	10
1983	607.35	435	509	98	16.33	6
1985	67,767.23	47,234	55,300	12,467	18.47	675
1987	2,626.40	1,787	2,092	534	19.07	28
1988	1,274.00	855	1,001	273	19.50	14
1990	13,349.43	8,661	10,140	3,209	20.31	158
1991	32,762.97	20,929	24,503	8,260	20.65	400
1992	26,698.28	16,871	19,752	6,946	20.67	336
1994	42,278.62	25,777	30,179	12,100	21.45	564
1995	118,256.75	70,718	82,795	35,462	21.85	1,623
1996	9,454.33	5,539	6,485	2,969	22.32	133
1997	5,432.04	3,115	3,647	1,785	22.59	79
1998	169,768.23	95,647	111,981	57,787	22.86	2,528
2002	498,453.49	254,211	297,623	200,830	24.50	8,197
2003	113,286.62	56,349	65,972	47,315	24.76	1,911
2004	63,989.80	30,830	36,095	27,895	25.29	1,103
2005	70,222.38	32,864	38,476	31,746	25.58	1,241
2006	87,641.30	39,754	46,543	41,098	25.90	1,587
2007	44,851.16	19,582	22,926	21,925	26.45	829
2008	260,198.94	109,596	128,312	131,887	26.80	4,921
2009	8,618,992.07	3,492,416	4,088,828	4,530,164	27.16	166,795
2010	201,983.09	78,470	91,870	110,113	27.55	3,997
2011	226,605.73	84,116	98,481	128,125	27.95	4,584

SURVIVOR CURVE: IOWA 50-S0.5
NET SALVAGE PERCENT: 0

2014	44,041.32	13,970	16,356	27,685	29.05	953
2017	195,540.18	50,293	58,882	136,658	30.32	4,507
2018	68,940.26	16,242	19,016	49,924	30.82	1,620
2019	1,395.07	299	350	1,045	30.74	34
2021	389,650.91	65,851	77,096	312,555	31.96	9,780
2024	634,287.77	60,638	70,993	563,295	33.13	17,003
	12,308,841.37	4,915,844	5,753,879	6,554,962		238,870

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 27.40 1.94

SURVIVOR CURVE: IOWA 33-S0
NET SALVAGE PERCENT: 0

1926	26.31	26	26			
1931	218.45	218	218			
1933	44.94	45	45			
1936	73.64	74	74			
1937	531.89	532	532			
1939	100.05	100	100			
1940	956.27	956	956			
1941	898.87	899	899			
1942	629.69	630	630			
1943	248.82	249	249			
1944	261.20	261	261			
1945	217.29	217	217			
1946	820.91	821	821			
1947	921.97	922	922			
1948	1,216.34	1,216	1,216			
1949	1,134.41	1,134	1,134			
1950	567.10	567	567			
1951	543.96	544	544			
1952	1,053.47	1,053	1,053			
1953	1,069.33	1,069	1,069			
1954	633.57	634	634			
1955	741.69	742	742			
1956	1,395.06	1,395	1,395			
1957	2,346.89	2,347	2,347			
1958	2,203.34	2,203	2,203			
1959	3,274.42	3,274	3,274			
1960	2,528.27	2,528	2,528			
1961	2,559.62	2,560	2,560			
1962	1,874.02	1,863	1,874			
1963	2,029.56	1,996	2,030			
1964	2,616.00	2,543	2,616			
1965	1,273.78	1,224	1,274			
1966	2,269.62	2,156	2,270			
1967	1,324.41	1,243	1,324			
1968	1,734.23	1,608	1,716	18	2.25	8
1969	3,425.35	3,138	3,349	76	2.81	27
1970	1,286.76	1,164	1,242	45	3.21	14
1971	668.05	597	637	31	3.44	9
1972	1,383.67	1,220	1,302	82	3.90	21
1973	761.21	662	707	54	4.15	13
1974	719.26	617	658	61	4.69	13
1975	963.27	816	871	92	5.11	18
1977	536.39	441	471	65	5.91	11
1978	215.76	175	187	29	5.80	5
1980	9.48	7	7	2		
1981	87.81	68	73	15	7.50	2
1983	39.62	34	36	4	4.00	1
1984	99.50	84	90	10	10.00	1
1988	14.12	11	12	2		
1990	20.61	16	17	4		
1991	96.00	75	80	16	8.00	2
1996	73.72	53	57	17	17.00	1
1999	618.21	423	451	167	12.85	13
2023	11,419.39	2,107	2,248	9,171	19.89	461

SURVIVOR CURVE: IOWA 33-S0
NET SALVAGE PERCENT: 0

2026	37,237.28	2,577	2,750	34,487	20.19	1,708
	100,014.85	54,134	55,565	44,450		2,328

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 19.10 2.33

SURVIVOR CURVE: IOWA 60-R2.5
NET SALVAGE PERCENT: 0

1906	29.99	30	30			
1923	95.58	93	96			
1925	385.22	370	385			
1930	2,807.06	2,635	2,807			
1931	435.00	407	435			
1934	601.82	556	602			
1937	1,286.00	1,173	1,286			
1938	651.10	592	651			
1939	189.89	172	190			
1940	636.24	573	636			
1942	77.88	70	78			
1943	2,016.88	1,795	2,017			
1945	452.54	399	453			
1946	2,458.57	2,159	2,459			
1947	904.95	791	905			
1948	1,112.43	968	1,112			
1949	221.89	192	222			
1951	66.26	57	66			
1952	571.42	487	571			
1955	411.60	345	412			
1958	1,144.69	942	1,145			
1959	31,709.01	25,922	31,709			
1960	1,570.53	1,275	1,571			
1961	3,625.00	2,921	3,625			
1962	1,076.72	861	1,077			
1963	680.33	540	680			
1964	4,511.67	3,548	4,512			
1965	831.40	648	831			
1966	114.36	88	114			
1968	36,991.24	28,009	36,991			
1969	245.28	184	245			
1971	2,313.81	1,696	2,314			
1972	612.48	444	610	2		
1974	22,623.29	15,980	21,969	654	17.68	37
1975	3,901.22	2,719	3,738	163	18.11	9
1976	208.11	143	197	11	11.00	1
1977	26,345.91	17,854	24,545	1,801	19.37	93
1979	2,212.93	1,455	2,000	213	21.30	10
1980	97,670.75	63,225	86,920	10,751	21.16	508
1981	643.50	410	564	80	20.00	4
1982	5,146.63	3,222	4,430	717	22.41	32
1983	4,071.13	2,790	3,836	235	21.36	11
1984	20,420.45	13,767	18,926	1,494	21.04	71
1985	5,137.69	3,406	4,682	456	21.71	21
1986	3,301.96	2,152	2,959	343	22.87	15
1987	20,490.35	13,112	18,026	2,464	22.81	108
1988	10,481.87	6,583	9,050	1,432	23.48	61
1989	22,648.83	13,952	19,181	3,468	24.08	144
1990	2,552.29	1,541	2,119	433	24.06	18
1991	41,020.96	24,256	33,346	7,675	25.25	304
1992	106,311.11	61,512	84,565	21,746	25.86	841
1994	130,682.51	72,241	99,315	31,368	27.11	1,157
1995	18,382.83	9,918	13,635	4,748	27.77	171
1997	10,281.55	5,268	7,242	3,040	28.95	105

SURVIVOR CURVE: IOWA 60-R2.5
NET SALVAGE PERCENT: 0

1999	18,151.93	8,795	12,091	6,061	30.31	200
2001	18,550.28	8,455	11,624	6,926	31.63	219
2002	28,964.69	12,779	17,568	11,397	32.29	353
2005	7,907.93	3,149	4,329	3,579	34.09	105
2006	7,372.59	2,821	3,878	3,495	34.60	101
2008	46,189.52	16,213	22,289	23,901	36.05	663
2012	1,028,723.58	293,392	403,348	625,376	38.85	16,097
2013	4,370.54	1,179	1,621	2,750	39.29	70
2014	54,393.11	13,729	18,874	35,519	40.00	888
2017	33,443.06	6,709	9,224	24,219	41.83	579
2019	2,790.13	460	632	2,158	43.16	50
2021	19,981.66	2,558	3,517	16,465	44.26	372
	1,926,213.73	786,687	1,071,077	855,137		23,418

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 36.50 1.22

SURVIVOR CURVE: IOWA 25-L1
 NET SALVAGE PERCENT: 0

1921	6,345.07	6,345	6,345	
1933	5.00	5	5	
1942	23.70	24	24	
1965	620.40	546	620	
1974	1,086.16	883	1,086	
1981	177.94	134	178	
1982	113.94	85	114	
1985	312.58	271	313	
1994	198.47	160	198	
1995	16.42	13	16	
1997	314.81	245	1,562	(1,247)
	9,214.49	8,711	10,461	(1,247)

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 26-L1
NET SALVAGE PERCENT: 0

1921	1,219.94	1,220	1,220			
1945	420.81	421	421			
1954	1,258.20	1,177	1,192	66	1.65	40
1979	31.01	23	23	8	8.00	1
1984	30.56	26	27	4	4.00	1
	2,960.52	2,867	2,883	78		42

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 1.90 1.42

SURVIVOR CURVE: IOWA 65-R1.5
NET SALVAGE PERCENT: 0

1875	74.20	74	74			
1886	513.53	514	514			
1889	51.40	51	51			
1890	35,891.93	35,892	35,892			
1891	138.30	138	138			
1892	2,462.87	2,463	2,463			
1893	4,522.20	4,522	4,522			
1894	17,527.57	17,528	17,528			
1895	7,649.86	7,650	7,650			
1896	2,768.85	2,769	2,769			
1897	6,494.34	6,487	6,494			
1898	28,142.19	27,960	28,142			
1899	44,658.46	44,164	44,658			
1900	44,365.72	43,656	44,366			
1901	74,824.68	73,247	74,825			
1902	61,371.88	59,757	61,372			
1903	62,426.10	60,467	62,426			
1904	45,266.33	43,609	45,266			
1905	104,815.51	100,446	104,816			
1906	18,206.51	17,352	18,207			
1907	104,717.22	99,272	104,717			
1908	87,684.72	82,694	87,685			
1909	23,617.68	22,168	23,618			
1910	30,412.77	28,415	30,413			
1911	3,332.58	3,100	3,333			
1912	2,834.93	2,627	2,835			
1913	34,223.23	31,585	34,223			
1914	39,309.46	36,147	39,309			
1915	6,511.41	5,964	6,511			
1916	15,123.11	13,802	15,123			
1917	39,038.72	35,489	39,039			
1918	24,113.70	21,840	24,114			
1919	21,629.63	19,510	21,630			
1920	29,524.51	26,527	29,525			
1921	8,689.03	7,773	8,689			
1922	82,987.52	73,935	82,910	78	7.09	11
1923	33,034.19	29,304	32,861	173	7.21	24
1924	36,214.63	31,980	35,862	353	7.67	46
1925	38,544.76	33,884	37,997	548	7.83	70
1926	15,939.94	13,946	15,639	301	8.14	37
1927	57,653.00	50,203	56,297	1,356	8.42	161
1928	22,090.77	19,144	21,468	623	8.65	72
1929	43,984.46	37,935	42,540	1,444	8.91	162
1930	29,619.17	25,413	28,498	1,121	9.26	121
1931	28,383.34	24,231	27,172	1,211	9.54	127
1932	8,260.43	7,016	7,868	392	9.80	40
1933	11,368.05	9,605	10,771	597	10.12	59
1934	3,308.31	2,780	3,117	191	10.61	18
1935	8,201.87	6,856	7,688	514	10.71	48
1936	3,580.76	2,976	3,337	244	11.09	22
1937	15,729.99	13,000	14,578	1,152	11.29	102
1938	36,659.77	30,129	33,786	2,874	11.59	248
1939	81,585.09	66,662	74,754	6,831	11.88	575
1940	28,951.20	23,513	26,367	2,584	12.19	212

SURVIVOR CURVE: IOWA 65-R1.5
NET SALVAGE PERCENT: 0

1941	177,401.04	143,203	160,586	16,815	12.53	1,342
1942	41,929.90	33,641	37,725	4,205	12.86	327
1943	35,874.88	28,601	32,073	3,802	13.20	288
1944	121,239.11	96,040	107,698	13,541	13.51	1,002
1945	89,508.30	70,436	78,986	10,522	13.84	760
1946	50,972.66	39,837	44,673	6,300	14.19	444
1947	51,491.23	39,965	44,816	6,675	14.54	459
1948	16,240.80	12,515	14,034	2,207	14.91	148
1949	52,002.83	39,786	44,616	7,387	15.26	484
1950	54,865.75	41,664	46,722	8,144	15.63	521
1951	53,676.32	40,447	45,357	8,319	16.03	519
1952	64,548.39	48,262	54,121	10,427	16.39	636
1953	99,955.34	74,136	83,135	16,820	16.79	1,002
1954	56,019.22	41,204	46,206	9,813	17.19	571
1955	52,615.49	38,369	43,027	9,588	17.59	545
1956	310,919.27	224,770	252,055	58,864	18.01	3,268
1957	476,999.83	341,751	383,236	93,764	18.43	5,088
1958	184,922.07	131,267	147,201	37,721	18.86	2,000
1959	317,239.63	223,045	250,120	67,120	19.30	3,478
1960	239,891.34	167,000	187,272	52,619	19.75	2,664
1961	92,188.99	63,539	71,252	20,937	20.21	1,036
1962	177,535.81	121,106	135,807	41,729	20.66	2,020
1963	239,834.09	161,869	181,518	58,316	21.13	2,760
1964	231,794.57	154,732	173,515	58,280	21.61	2,697
1965	157,226.29	103,793	116,392	40,834	22.08	1,849
1966	206,889.64	134,987	151,373	55,517	22.59	2,458
1967	266,065.18	171,551	192,375	73,690	23.09	3,191
1968	194,120.21	123,639	138,647	55,473	23.60	2,351
1969	609,955.24	383,613	430,180	179,775	24.12	7,453
1970	106,487.24	66,120	74,146	32,341	24.63	1,313
1971	483,796.53	296,383	332,361	151,436	25.18	6,014
1972	1,325,925.65	801,270	898,536	427,390	25.72	16,617
1973	526,709.18	313,840	351,937	174,772	26.27	6,653
1974	687,898.12	403,954	452,990	234,908	26.83	8,755
1975	981,939.46	568,170	637,140	344,799	27.39	12,588
1976	565,674.76	322,350	361,480	204,195	27.96	7,303
1977	1,207,117.23	677,096	759,288	447,829	28.54	15,691
1978	587,526.82	324,227	363,585	223,942	29.13	7,688
1979	700,694.25	380,316	426,482	274,212	29.72	9,227
1980	839,757.75	448,044	502,432	337,326	30.32	11,126
1981	710,494.03	372,405	417,611	292,883	30.93	9,469
1982	734,623.54	378,052	423,944	310,680	31.55	9,847
1983	487,810.62	299,565	335,929	151,882	27.96	5,432
1984	866,408.37	523,831	587,419	278,989	28.45	9,806
1985	2,077,566.04	1,244,878	1,395,993	681,573	28.43	23,974
1986	815,907.57	480,814	539,180	276,728	28.92	9,569
1987	323,690.52	187,482	210,240	113,451	29.43	3,855
1988	2,067,456.99	1,175,970	1,318,720	748,737	29.94	25,008
1989	761,999.84	425,348	476,981	285,019	30.47	9,354
1990	591,747.81	323,982	363,310	228,438	30.99	7,371
1991	1,272,229.99	682,679	765,549	506,681	31.52	16,075
1992	1,497,692.27	786,888	882,408	615,284	32.07	19,186
1993	515,305.87	264,867	297,019	218,287	32.62	6,692
1994	601,830.76	302,420	339,131	262,700	33.17	7,920
1995	593,261.54	291,173	326,518	266,744	33.72	7,911

SURVIVOR CURVE: IOWA 65-R1.5
NET SALVAGE PERCENT: 0

1996	920,988.10	443,916	497,803	423,185	33.86	12,498
1997	2,076,900.97	975,520	1,093,938	982,963	34.44	28,541
1998	439,438.09	200,911	225,299	214,139	35.02	6,115
1999	524,178.14	233,050	261,340	262,838	35.60	7,383
2000	839,023.40	364,556	408,809	430,214	35.79	12,021
2001	918,154.91	386,910	433,877	484,278	36.39	13,308
2002	228,210.06	93,110	104,413	123,797	37.00	3,346
2003	1,221,298.89	484,734	543,576	677,723	37.23	18,204
2004	513,606.30	196,711	220,590	293,016	37.85	7,742
2005	811,489.00	301,225	337,791	473,698	38.11	12,430
2006	549,090.52	195,970	219,759	329,332	38.74	8,501
2007	1,578,271.07	543,557	609,539	968,732	39.02	24,827
2008	2,393,512.05	788,902	884,666	1,508,846	39.67	38,035
2009	1,454,514.11	460,208	516,072	938,442	39.98	23,473
2010	1,849,773.19	560,111	628,103	1,221,670	40.30	30,314
2011	5,050,422.15	1,458,562	1,635,616	3,414,806	40.64	84,026
2012	2,234,358.15	613,108	687,533	1,546,825	40.99	37,737
2013	2,940,484.29	763,350	856,013	2,084,471	41.36	50,398
2014	2,138,045.73	522,538	585,968	1,552,078	41.75	37,176
2015	1,570,850.85	361,296	405,153	1,165,698	41.85	27,854
2016	284,856.50	60,931	68,327	216,530	42.26	5,124
2017	1,063,833.30	211,065	236,686	827,147	42.41	19,504
2018	1,679,268.13	306,299	343,481	1,335,787	42.58	31,371
2019	4,667,331.52	773,844	867,780	3,799,552	42.78	88,816
2020	2,549,785.83	380,428	426,608	2,123,178	42.75	49,665
2021	1,439,290.56	189,986	213,048	1,226,243	42.76	28,677
2022	4,165,417.16	476,524	534,369	3,631,048	42.58	85,276
2023	2,558,551.75	246,389	276,298	2,282,254	42.23	54,043
2024	1,681,818.78	130,173	145,975	1,535,844	41.75	36,787
2025	1,430,202.09	82,237	92,220	1,337,982	40.98	32,650
2026	7,069,696.83	260,165	291,746	6,777,951	39.31	172,423
2027	29,515,864.74	413,222	463,383	29,052,482	35.09	827,942
	116,633,035.71	30,604,571	34,247,273	82,385,763		2,244,167

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 36.70 1.92

SURVIVOR CURVE: IOWA 35-S0.5
NET SALVAGE PERCENT: 0

1936	294.19	294	294			
1938	3,056.63	3,057	3,057			
1942	246.52	247	247			
1944	273.91	274	274			
1946	10.62	11	11			
1948	1,764.35	1,764	1,764			
1953	50,593.82	50,594	50,594			
1955	461.77	462	462			
1956	32,578.64	32,579	32,579			
1957	5,165.53	5,166	5,166			
1959	96.90	95	90	7	1.00	7
1963	1,774.66	1,677	1,591	184	1.94	95
1964	404.09	378	359	45	2.25	20
1968	558.97	501	475	84	3.65	23
1969	213.27	189	179	34	3.78	9
1970	1,182.04	1,037	984	198	4.30	46
1971	113,287.59	98,366	93,328	19,960	4.61	4,330
1972	104.35	90	85	19	4.75	4
1973	650.58	552	524	127	5.29	24
1974	415,586.54	348,735	330,874	84,713	5.63	15,047
1976	3,525.37	2,889	2,741	784	6.32	124
1977	33,144.69	26,838	25,463	7,682	6.66	1,153
1978	12,991.46	10,386	9,854	3,137	7.02	447
1979	5,915.76	4,670	4,431	1,485	7.39	201
1980	181.40	141	134	47	7.83	6
1981	8,361.80	6,429	6,100	2,262	8.08	280
1982	3,380.96	2,565	2,434	947	8.46	112
1984	1,233.58	1,030	977	257	8.57	30
1985	206,785.90	171,384	162,606	44,180	8.78	5,032
1986	17,021.42	13,987	13,271	3,750	9.01	416
1987	2,685.55	2,175	2,064	622	9.57	65
1988	47,455.91	38,050	36,101	11,355	9.76	1,163
1989	57,122.46	45,304	42,984	14,138	10.04	1,408
1990	124,649.69	97,700	92,696	31,954	10.34	3,090
1991	6,435.95	4,980	4,725	1,711	10.69	160
1992	210,895.49	160,955	152,711	58,184	11.01	5,285
1993	41,315.66	31,074	29,482	11,834	11.37	1,041
1994	122,954.81	91,036	86,373	36,582	11.75	3,113
1995	1,655,963.51	1,210,841	1,148,825	507,139	11.95	42,438
1996	71,620.53	51,438	48,803	22,818	12.36	1,846
1997	19,463.48	13,772	13,067	6,396	12.59	508
1998	105,712.13	73,280	69,527	36,185	13.06	2,771
1999	175,941.49	119,851	113,713	62,228	13.34	4,665
2000	126,995.60	84,858	80,512	46,484	13.65	3,405
2001	33,576.86	21,979	20,853	12,724	13.98	910
2002	6,445,747.71	4,125,279	3,913,991	2,531,757	14.34	176,552
2003	1,404,159.56	877,319	832,385	571,775	14.71	38,870
2004	790,640.03	481,184	456,539	334,101	15.11	22,111
2005	1,350,683.30	802,306	761,214	589,469	15.38	38,327
2006	1,889,986.45	1,089,010	1,033,233	856,753	15.81	54,191
2007	5,120,601.66	2,865,489	2,718,725	2,401,877	16.13	148,907
2008	2,211,661.76	1,198,942	1,137,535	1,074,127	16.47	65,217
2009	3,463,675.57	1,813,581	1,720,693	1,742,983	16.83	103,564
2010	1,907,447.00	961,353	912,115	995,332	17.22	57,801

SURVIVOR CURVE: IOWA 35-S0.5
NET SALVAGE PERCENT: 0

2011	978,570.15	473,041	448,813	529,757	17.63	30,049
2012	154,229.33	71,470	67,809	86,420	17.95	4,814
2013	254,439.42	112,157	106,413	148,026	18.39	8,049
2014	129,497.02	54,195	51,419	78,078	18.76	4,162
2015	158,359.41	62,552	59,348	99,011	19.15	5,170
2016	168,394.96	62,357	59,163	109,232	19.56	5,584
2017	1,125,062.23	387,471	367,626	757,436	19.99	37,891
2018	183,580.67	58,415	55,423	128,158	20.35	6,298
2019	1,146,982.84	333,428	316,351	830,632	20.74	40,050
2020	425,329.51	111,351	105,648	319,682	21.15	15,115
2021	3,843,964.63	889,493	843,935	3,000,030	21.59	138,955
2022	3,875,522.60	775,880	736,141	3,139,382	21.97	142,894
2023	1,022,845.79	171,224	162,454	860,392	22.38	38,445
2024	5,209,291.06	692,836	657,351	4,551,940	22.82	199,472
2025	40,020.97	3,890	3,691	36,330	23.21	1,565
2026	1,342,934.64	80,307	76,194	1,266,741	23.56	53,767
2027	2,910,215.97	59,950	56,879	2,853,337	23.83	119,737
	51,277,480.67	21,448,160	20,354,472	30,923,009		1,656,831

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 18.70 3.23

SURVIVOR CURVE: IOWA 20-L0
NET SALVAGE PERCENT: 0

1898	63.58	64	64
1918	8.14	8	8
1921	18.74	19	19
1923	7.74	8	8
1924	39.81	40	40
1925	40.18	40	40
1926	548.09	548	548
1927	94.61	95	95
1928	56.50	56	56
1929	186.84	187	187
1930	22.21	22	22
1931	65.88	66	66
1932	44.64	45	45
1933	8.88	9	9
1934	710.68	711	711
1935	11.21	11	11
1936	491.43	491	491
1937	149.02	149	149
1938	145.14	145	145
1939	222.55	223	223
1940	570.40	570	570
1941	364.71	365	365
1942	1,036.76	1,037	1,037
1943	281.33	281	281
1944	284.80	285	285
1945	362.30	362	362
1946	720.87	719	721
1947	425.54	411	426
1948	692.13	658	692
1949	1,865.55	1,762	1,866
1950	333.50	313	334
1951	535.02	499	535
1952	3,731.07	3,457	3,731
1953	9,865.79	9,081	9,866
1954	10,630.42	9,722	10,630
1955	2,382.82	2,165	2,383
1956	6,059.29	5,465	6,059
1957	4,928.72	4,416	4,929
1958	6,364.54	5,664	6,365
1959	2,762.48	2,441	2,762
1960	3,809.06	3,342	3,809
1961	5,493.96	4,785	5,494
1962	4,590.95	3,969	4,591
1963	3,693.83	3,169	3,694
1964	5,109.68	4,351	5,110
1965	4,170.32	3,522	4,170
1966	4,426.82	3,710	4,427
1967	5,038.97	4,187	5,039
1968	8,013.70	6,603	8,014
1969	12,592.42	10,288	12,592
1970	4,755.33	3,849	4,755
1971	14,773.51	11,856	14,774
1972	7,082.32	5,630	7,082
1973	12,884.08	10,146	12,884

SURVIVOR CURVE: IOWA 20-L0
NET SALVAGE PERCENT: 0

1974	23,236.59	18,125	23,237			
1975	63,230.50	48,814	62,773	458	4.58	100
1976	40,004.08	30,583	39,329	675	4.72	143
1977	54,526.51	41,249	53,045	1,482	4.88	304
1978	96,106.60	71,888	92,446	3,661	5.04	726
1979	95,734.22	70,843	91,102	4,632	5.20	891
1980	30,948.98	22,639	29,113	1,836	5.37	342
1981	71,918.23	51,997	66,866	5,052	5.54	912
1982	70,165.86	50,134	64,471	5,695	5.71	997
1983	64,563.11	57,461	64,563			
1984	30,284.13	26,874	30,284			
1985	61,740.32	54,319	61,740			
1986	102,417.32	89,677	102,417			
1987	35,738.04	31,121	35,738			
1988	115,325.20	99,756	115,325			
1989	65,133.29	55,923	65,133			
1990	96,646.89	82,266	96,647			
1991	157,991.89	133,788	157,992			
1992	29,353.96	24,593	29,354			
1993	19,386.82	16,118	19,387			
1994	105,976.62	87,335	105,977			
1995	11,880.96	9,692	11,881			
1996	7,148.31	5,787	7,148			
1997	13,295.40	10,624	13,295			
1998	8,029.47	6,348	8,029			
1999	91.48	71	91			
2000	1,542.89	1,192	1,543			
2002	8,681.46	6,530	8,681			
2003	6,816.28	5,043	6,816			
2004	8,156.16	5,942	8,139	17	8.50	2
2005	9,281.40	6,641	9,097	184	8.76	21
2006	6,905.48	4,855	6,650	255	9.11	28
2007	42.10	29	40	2		
2008	11,297.87	7,623	10,442	856	9.41	91
2009	1,029,796.41	678,224	929,012	100,784	9.59	10,509
2010	91,277.39	58,618	80,293	10,984	9.75	1,127
2011	188,608.12	117,956	161,573	27,035	9.88	2,736
2013	28,477.49	16,765	22,964	5,513	10.13	544
2017	17,687.02	8,803	12,058	5,629	10.60	531
2020	20,423.17	8,378	11,476	8,947	10.78	830
2021	227,054.21	85,304	116,847	110,207	10.80	10,204
2022	203,714.85	68,795	94,234	109,481	10.79	10,147
2023	3,649.35	1,077	1,475	2,174	10.76	202
2026	146,170.55	18,900	25,889	120,282	10.10	11,909
2027	320,046.11	16,322	22,357	297,689	9.29	32,044
	3,954,071.96	2,447,039	3,130,540	823,532		85,340

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.70 2.16

SURVIVOR CURVE: IOWA 23-L1
 NET SALVAGE PERCENT: 0

2004	2,370.47	1,716	(2,640)	5,010	8.96	559
2005	3,808.95	2,708	(4,167)	7,976	9.15	872
2006	2,060.73	1,436	(2,209)	4,270	9.36	456
2008	1,405.60	937	(1,442)	2,848	9.75	292
	9,645.75	6,797	(10,458)	20,104		2,179

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.20 22.59

SURVIVOR CURVE: IOWA 55-L4
NET SALVAGE PERCENT: 0

1967	764.79	625	565	200	10.00	20
1969	4,194.89	3,408	3,078	1,117	10.34	108
1970	49.41	40	36	13	13.00	1
1976	93.45	74	67	26	13.00	2
1977	2,088.06	1,639	1,481	607	11.90	51
1979	9,290.53	7,172	6,478	2,813	12.56	224
1989	342.71	240	217	126	15.75	8
	16,823.84	13,198	11,922	4,902		414

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 11.80 2.46

SURVIVOR CURVE: IOWA 70-R3
NET SALVAGE PERCENT: 0

1916	922.66	901	923			
1925	257.87	244	258			
1926	459.25	432	459			
1929	64.04	60	64			
1940	198.63	177	199			
1941	73.96	65	74			
1942	442.68	390	443			
1943	166.39	146	166			
1945	66.96	58	67			
1946	558.07	482	558			
1947	1,450.95	1,246	1,451			
1948	1,558.71	1,330	1,559			
1949	1,239.91	1,052	1,240			
1953	162.40	134	162			
1954	2,117.36	1,737	2,117			
1955	437.08	356	437			
1961	890.72	689	852	39	19.50	2
1962	39.11	30	37	2		
1965	87.33	65	80	7		
1966	1,016.02	746	923	93	18.60	5
1967	169.49	123	152	17	17.00	1
1968	1,932.65	1,386	1,715	218	19.82	11
1969	1,120.00	793	981	139	19.86	7
1970	644.80	451	558	87	21.75	4
1972	392.00	267	330	62	20.67	3
1973	1,159.09	779	964	195	24.38	8
1974	448.00	297	367	81	27.00	3
1977	280.00	177	219	61	30.50	2
1979	60.66	37	46	15	15.00	1
1980	112.00	67	83	29	29.00	1
1983	1,456.00	907	1,122	334	27.83	12
1985	1,400.00	839	1,038	362	27.85	13
1986	409.02	241	298	111	27.75	4
1987	441.00	254	314	127	31.75	4
1993	875.00	441	546	329	32.90	10
2000	2,875.00	1,194	1,477	1,398	38.83	36
2004	17,233.24	6,197	7,667	9,566	41.77	229
2006	19,252.16	6,374	7,886	11,366	43.38	262
2024	54,760.21	3,143	3,889	50,871	57.48	885
2025	21,297.60	877	1,085	20,213	58.08	348
2026	14,499.62	362	448	14,052	58.31	241
2027	18,849.50	160	198	18,652	58.29	320
	171,877.14	35,706	43,452	128,425		2,412

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 53.20 1.40

SURVIVOR CURVE: IOWA 60-R2
NET SALVAGE PERCENT: 0

1922	2,829.48	2,757	2,829			
1926	27,541.11	26,343	27,541			
1937	16,189.19	14,635	16,189			
1938	95.25	86	95			
1940	400.17	356	397	3		
1945	426.05	368	410	16	8.00	2
1946	58.82	51	57	2		
1947	1,202.28	1,027	1,145	57	8.14	7
1949	1,543.88	1,303	1,453	91	9.10	10
1950	5,236.77	4,391	4,898	339	9.69	35
1951	3,014.62	2,512	2,802	213	10.14	21
1952	740.00	612	683	57	9.50	6
1953	2,900.60	2,384	2,659	242	10.52	23
1955	19,384.40	15,701	17,512	1,872	11.41	164
1956	3,782.70	3,041	3,392	391	11.85	33
1957	6,109.86	4,874	5,436	674	12.04	56
1958	1,371.20	1,085	1,210	161	12.38	13
1959	1,334.85	1,048	1,169	166	12.77	13
1963	3,163.12	2,396	2,672	491	14.44	34
1964	41.65	31	35	7		
1965	1,891.52	1,405	1,567	325	15.48	21
1966	509.61	375	418	92	15.33	6
1967	126.88	92	103	24	24.00	1
1968	1,796.46	1,292	1,441	355	16.90	21
1969	2,701.00	1,921	2,143	558	17.44	32
1970	537.68	378	422	116	16.57	7
1971	551.41	383	427	124	17.71	7
1972	13,370.77	9,172	10,230	3,141	18.81	167
1973	3,559.13	2,411	2,689	870	19.33	45
1974	28,324.75	18,930	21,114	7,211	19.92	362
1975	218.60	144	161	58	19.33	3
1976	85.52	56	62	24	24.00	1
1977	1,110.04	711	793	317	21.13	15
1981	1,050.11	631	704	346	24.71	14
1982	80.70	48	54	27	27.00	1
1986	7,180.22	4,559	5,085	2,095	23.81	88
1987	3,015.84	1,881	2,098	918	24.16	38
1989	23,593.89	14,260	15,905	7,689	25.21	305
1992	43,447.38	24,678	27,525	15,922	26.99	590
1993	41,380.63	22,983	25,635	15,746	27.62	570
1994	10,078.67	5,503	6,138	3,941	27.75	142
1995	2,597.85	1,385	1,545	1,053	28.46	37
1996	79,849.12	41,506	46,295	33,554	29.10	1,153
1997	26,972.82	13,656	15,231	11,742	29.73	395
1998	586,849.01	289,082	322,434	264,415	30.38	8,704
1999	21,627.73	10,416	11,618	10,010	30.71	326
2000	177,972.01	83,202	92,801	85,171	31.32	2,719
2001	15,235.14	6,905	7,702	7,533	31.92	236
2002	15,519.54	6,847	7,637	7,883	32.31	244
2003	330,001.37	140,680	156,910	173,091	32.97	5,250
2004	149,518.06	61,482	68,575	80,943	33.66	2,405
2006	158,602.08	60,697	67,700	90,902	34.68	2,621
2007	111,088.83	40,770	45,473	65,616	35.35	1,856
2008	3,484.86	1,230	1,372	2,113	35.81	59

SURVIVOR CURVE: IOWA 60-R2
NET SALVAGE PERCENT: 0

2010	6,944.58	2,236	2,494	4,451	36.79	121
2014	82,977.62	21,392	23,860	59,118	38.87	1,521
2015	29,547.03	7,091	7,909	21,638	39.56	547
2017	52,907.60	10,888	12,144	40,764	40.52	1,006
2020	250,885.11	38,185	42,591	208,294	41.76	4,988
2025	15,997.02	896	999	14,998	42.13	356
	2,400,554.19	1,035,360	1,152,588	1,247,966		37,397

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.40 1.56

SURVIVOR CURVE: IOWA 60-R1.5
NET SALVAGE PERCENT: 0

1916	2,288.30	2,173	(24)	2,312	3.03	763
1917	4.50	4	4			
1924	6,717.37	6,145	(68)	6,785	5.11	1,328
1925	4,635.33	4,223	(47)	4,682	5.34	877
1927	177.27	160	(2)	179	5.77	31
1928	2,669.12	2,401	(26)	2,695	6.03	447
1929	3,305.32	2,960	(33)	3,338	6.27	532
1939	94.86	81	(1)	96	8.73	11
1942	6,961.15	5,822	(64)	7,025	9.83	715
1943	5,688.45	4,729	(52)	5,740	10.12	567
1945	289.17	237	(3)	292	10.81	27
1946	8,501.72	6,937	(76)	8,578	11.04	777
1947	28,359.03	22,994	(253)	28,612	11.35	2,521
1948	27,451.29	22,112	(244)	27,695	11.67	2,373
1949	2,441.54	1,953	(22)	2,464	12.02	205
1950	9,147.24	7,267	(80)	9,227	12.34	748
1951	0.89	1	1			
1952	10.90	9		11	11.00	1
1953	21.11	16		21	10.50	2
1961	109.48	80	(1)	110	15.71	7
1962	432.38	311	(3)	435	16.73	26
1966	2.53	2		3		
1967	249.44	170	(2)	251	19.31	13
1968	439.25	296	(3)	442	19.22	23
1970	257.26	169	(2)	259	19.92	13
1972	24,602.35	15,791	(174)	24,776	21.49	1,153
1973	6,503.12	4,119	(45)	6,548	21.97	298
1974	7,457.88	4,659	(51)	7,509	22.55	333
1975	12,104.06	7,452	(82)	12,186	23.08	528
1979	484.24	280	(3)	487	25.63	19
1981	10,160.79	5,688	(63)	10,224	26.42	387
1983	157.79	103	(1)	159	22.71	7
1984	61,029.67	39,022	(430)	61,460	24.53	2,506
1989	73,068.48	43,037	(474)	73,542	26.86	2,738
1990	24,565.47	14,187	(156)	24,721	27.44	901
1991	47,012.28	26,769	(295)	47,307	27.60	1,714
1992	28,893.61	16,105	(177)	29,071	28.20	1,031
1993	354.51	193	(2)	357	29.75	12
1995	508.53	266	(3)	512	30.12	17
1997	246,704.64	122,662	(1,352)	248,057	30.85	8,041
1998	276,582.83	134,641	(1,483)	278,066	31.10	8,941
1999	3,019.80	1,429	(16)	3,036	31.63	96
2000	96,191.89	44,441	(490)	96,682	32.02	3,019
2002	2,808.35	1,224	(13)	2,821	32.80	86
2004	16,552.83	6,768	(75)	16,628	34.00	489
2005	50,111.40	19,734	(217)	50,328	34.64	1,453
2006	73,976.75	28,156	(310)	74,287	34.99	2,123
2017	16,346.35	3,467	(38)	16,384	39.01	420
2021	9,102.44	1,283	(14)	9,116	39.63	230
2026	2,083,356.36	82,084	(905)	2,084,261	36.52	57,072
2027	3,083,752.27	46,565	(513)	3,084,265	32.61	94,580
	6,365,663.59	761,377	(8,383)	6,374,047		200,201

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 31.80 3.15

SURVIVOR CURVE: IOWA 55-R1
NET SALVAGE PERCENT: 0

1916	545.84	546	546			
1917	602.09	602	602			
1924	2,372.29	2,271	661	1,711	2.35	728
1925	2,240.46	2,131	621	1,619	2.68	604
1943	6,732.14	5,721	1,666	5,066	8.26	613
1945	2,391.77	2,003	583	1,809	8.91	203
1946	5,287.42	4,395	1,280	4,007	9.28	432
1947	8,366.22	6,901	2,010	6,356	9.63	660
1948	6,867.23	5,621	1,637	5,230	9.98	524
1949	33.59	27	8	26	8.67	3
1950	2,149.17	1,731	504	1,645	10.68	154
1952	35.38	28	8	27	13.50	2
1953	234.81	184	54	181	12.07	15
1961	243.38	177	52	191	14.69	13
1966	123.58	85	25	99	16.50	6
1967	731.43	497	145	586	17.76	33
1968	6.48	4	1	5		
1971	4,948.22	3,196	931	4,017	19.50	206
1972	18,757.10	11,950	3,481	15,276	19.97	765
1973	24,911.10	15,653	4,559	20,352	20.43	996
1974	8,244.14	5,107	1,487	6,757	20.92	323
1975	9,923.51	6,057	1,764	8,160	21.42	381
1977	13,198.13	7,811	2,275	10,923	22.43	487
1979	1,860.82	1,066	310	1,551	23.50	66
1981	15,096.56	8,355	2,434	12,663	24.54	516
1982	28,478.73	15,482	4,509	23,970	25.10	955
1984	24,769.33	16,268	4,738	20,031	22.74	881
1986	14,834.65	9,481	2,762	12,073	23.44	515
1989	22,040.63	13,407	3,905	18,136	24.78	732
1991	9,728.36	5,716	1,665	8,063	25.60	315
1992	6,312.20	3,630	1,057	5,255	26.28	200
1993	437.04	247	72	365	26.07	14
1994	258.82	143	42	217	27.13	8
1995	762.79	414	121	642	27.91	23
1997	12,093.79	6,271	1,827	10,267	28.28	363
1998	20,057.90	10,177	2,964	17,094	28.63	597
1999	253,809.44	125,864	36,659	217,150	28.97	7,496
2000	56,572.91	27,381	7,975	48,598	29.31	1,658
2008	17,370.15	6,538	1,904	15,466	32.29	479
2014	27,203.89	7,748	2,257	24,947	33.90	736
2015	1,621.91	434	126	1,496	34.00	44
2019	5,149.78	1,020	297	4,853	34.42	141
2026	1,107,952.65	52,517	15,297	1,092,656	30.15	36,241
2027	1,639,974.59	30,996	9,028	1,630,947	25.96	62,825
	3,385,332.42	425,853	124,849	3,260,483		121,953

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 26.70 3.60

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1904	35.14	35	35	
1909	75.00	75	75	
1910	211.00	211	211	
1915	26.50	26	26	
1916	58.95	59	59	
1921	17.70	18	18	
1938	58.48	56	58	
1939	330.37	313	330	
1940	19.39	18	19	
1941	201.71	189	202	
1942	29.19	27	29	
1943	27.92	26	28	
1944	102.32	95	102	
1945	7,165.82	6,608	7,166	
1946	114.97	106	115	
1947	1,278.03	1,167	1,278	
1948	4,414.39	4,013	4,414	
1949	330.99	299	331	
1950	69,383.58	62,468	69,384	
1951	60,361.90	54,074	60,362	
1952	1,628.76	1,452	1,629	
1953	40.65	36	41	
1955	52.58	46	53	
1958	453.12	390	453	
1969	320.54	252	321	
1970	249.81	194	250	
1974	465.47	345	465	
1975	12,797.48	9,370	12,797	
1979	1,684.94	1,165	1,686	(1)
	161,936.70	143,133	161,937	

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 65-R5
NET SALVAGE PERCENT: 0

1939	100.32	100	100			
1941	98.88	98	99			
1944	1,462.95	1,433	1,463			
1947	29.25	28	29			
1948	75.00	72	75			
1949	3,618.25	3,479	3,618			
1950	371.91	356	372			
1960	11.75	11	12			
1964	443.26	394	443			
1982	40,000.00	27,637	33,246	6,754	20.10	336
1992	2,452.89	1,367	1,644	809	27.90	29
1993	12,069.59	6,537	7,864	4,206	29.21	144
1998	306,874.45	142,144	170,992	135,882	34.19	3,974
1999	45,797.43	20,490	24,648	21,149	35.19	601
	413,405.93	204,146	244,605	168,801		5,084

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.20 1.23

SURVIVOR CURVE.. 40-SQUARE
NET SALVAGE PERCENT: 0

1969	7,545.31	7,545	7,545			
1970	116.00	116	116			
1971	9,081.22	9,081	9,081			
1972	5,737.14	5,737	5,737			
1975	23,910.35	23,910	23,910			
1994	10,285.35	8,614	8,604	1,681	6.49	259
1997	15,806.90	12,053	12,040	3,767	9.49	397
2011	360,656.23	148,771	148,606	212,050	23.50	9,023
	433,138.50	215,827	215,639	217,500		9,679

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 22.50 2.23

SURVIVOR CURVE.. 37-SQUARE
NET SALVAGE PERCENT: 0

1971	205,250.77	205,251	205,251
	205,250.77	205,251	205,251

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 50-R2
NET SALVAGE PERCENT: 0

1912	8.69	9	9			
1916	1,786.32	1,786	1,786			
1917	363.37	363	363			
1918	25.48	25	25			
1922	42.17	42	42			
1924	5,487.93	5,488	5,488			
1925	1,233.42	1,233	1,233			
1926	63.48	63	63			
1933	19.78	20	20			
1934	57.37	57	57			
1937	19.93	20	20			
1938	3.19	3	3			
1939	84.73	83	85			
1940	531.12	516	531			
1941	1,072.68	1,037	1,073			
1943	570.69	546	571			
1944	332.44	316	332			
1945	146.21	138	146			
1946	12,963.19	12,175	12,963			
1947	3,928.21	3,667	3,928			
1948	9,725.46	9,021	9,725			
1951	265.03	241	265			
1952	12,170.84	11,007	12,171			
1955	2,287.37	2,029	2,287			
1956	44.62	39	45			
1957	445.55	390	446			
1961	568.38	484	568			
1963	70.50	59	70			
1965	42.48	35	42			
1967	4,390.54	3,559	4,391			
1968	94,202.26	75,682	94,202			
1969	10,938.86	8,705	10,939			
1970	25,791.64	20,329	25,792			
1973	40,293.71	30,776	40,294			
1974	8,392.05	6,338	8,392			
1975	1,320.10	985	1,320			
1976	580.66	428	581			
1977	4,755.64	3,462	4,756			
1978	92.88	67	92	1		
1981	5,347.65	3,682	5,078	270	15.88	17
1983	55,595.37	41,563	55,595			
1984	8,052.76	5,955	8,053			
1986	388.90	279	385	4		
1988	37,073.02	25,773	35,577	1,496	17.40	86
1990	7,473.03	5,016	6,924	549	18.30	30
1991	3,151.27	2,082	2,874	277	18.47	15
1993	14,359.94	9,116	12,584	1,776	19.96	89
1996	5,529.70	3,292	4,544	986	21.43	46
1998	350.78	199	275	76	25.33	3
1999	35,898.66	19,848	27,398	8,501	23.04	369
2000	69,766.68	37,604	51,909	17,858	23.53	759
2001	18,927.15	9,931	13,709	5,218	24.05	217
2002	1,771.09	899	1,241	530	25.24	21
2003	4,001.15	1,970	2,719	1,282	25.14	51

SURVIVOR CURVE: IOWA 50-R2
NET SALVAGE PERCENT: 0

2004	380,060.87	181,289	250,254	129,807	25.76	5,039
2005	28,863.63	13,312	18,376	10,488	26.29	399
2006	1,601,556.59	712,693	983,813	617,744	26.81	23,042
2007	203,390.61	87,133	120,280	83,111	27.35	3,039
2008	443,981.80	181,811	250,975	193,007	28.12	6,864
2009	7,446.86	2,921	4,032	3,415	28.70	119
2010	36,199.97	13,557	18,714	17,486	29.24	598
2011	87,605.79	31,363	43,294	44,312	29.58	1,498
2012	35,014.56	11,884	16,405	18,610	30.16	617
2013	191,676.67	61,413	84,776	106,901	30.75	3,476
2015	36,772.48	10,388	14,340	22,432	31.73	707
2020	5,277.70	950	1,311	3,967	34.20	116
2023	104,330.04	11,831	16,332	87,998	35.19	2,501
2024	8,405.08	756	1,044	7,361	35.39	208
2025	4,990.07	330	455	4,535	35.16	129
	3,688,378.84	1,690,063	2,298,382	1,389,997		50,055

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 27.80 1.36

SURVIVOR CURVE: IOWA 47-R1.5
NET SALVAGE PERCENT: 0

1905	35.50	36	36			
1906	38.46	38	38			
1922	183.97	184	184			
1926	931.01	931	931			
1934	359.15	356	279	80	1.00	80
1935	117.46	116	91	26	1.00	26
1937	20,650.37	20,075	15,747	4,903	1.31	3,743
1938	133.74	129	101	33	1.65	20
1940	427.70	407	319	109	2.32	47
1941	115.24	109	86	29	2.64	11
1942	524.98	492	386	139	2.96	47
1947	25.42	23	18	7	3.50	2
1948	142,433.56	129,220	101,362	41,072	4.36	9,420
1949	23,611.61	21,306	16,713	6,899	4.59	1,503
1950	2,188.04	1,963	1,540	648	4.84	134
1951	582.13	519	407	175	5.00	35
1952	11,231.91	9,958	7,811	3,421	5.33	642
1953	76,549.60	67,462	52,918	23,632	5.58	4,235
1954	17,157.92	15,022	11,783	5,375	5.85	919
1955	390.29	339	266	124	6.20	20
1956	38,183.31	32,992	25,879	12,304	6.39	1,926
1957	133.55	115	90	44	6.29	7
1958	4,339.68	3,698	2,901	1,439	6.95	207
1959	23,913.41	20,230	15,869	8,044	7.24	1,111
1960	1,787.47	1,501	1,177	610	7.53	81
1961	844.81	704	552	293	7.92	37
1962	727.04	601	471	256	8.26	31
1963	99.85	82	64	36	9.00	4
1964	186.87	152	119	68	8.50	8
1965	124.97	101	79	46	9.20	5
1966	1,242.67	994	780	463	9.45	49
1967	2,346.06	1,860	1,459	887	9.75	91
1969	14,853.05	11,560	9,068	5,785	10.42	555
1970	37,108.95	28,605	22,438	14,671	10.77	1,362
1971	568.69	434	340	229	10.90	21
1972	5,616.27	4,241	3,327	2,289	11.50	199
1973	3,151.65	2,354	1,847	1,305	11.86	110
1974	72,091.39	53,240	41,762	30,329	12.29	2,468
1975	29,392.67	21,457	16,831	12,562	12.69	990
1976	21,470.90	15,482	12,144	9,327	13.12	711
1977	32,198.92	22,930	17,987	14,212	13.54	1,050
1978	5,153.70	3,622	2,841	2,313	13.93	166
1979	893.11	619	486	407	14.54	28
1981	5,710.28	3,847	3,018	2,692	15.38	175
1982	67,520.09	44,779	35,125	32,395	15.83	2,046
1983	43,235.50	32,513	25,504	17,732	14.67	1,209
1984	4,944.45	3,678	2,885	2,059	15.03	137
1985	91,839.04	67,520	52,963	38,876	15.31	2,539
1986	213,023.06	153,824	120,661	92,362	15.97	5,783
1987	54,991.12	39,198	30,747	24,244	16.31	1,486
1988	27,340.60	19,223	15,079	12,262	16.68	735
1989	58,827.76	40,768	31,979	26,849	17.06	1,574
1990	514,155.85	350,911	275,258	238,898	17.45	13,690
1991	29,317.75	19,584	15,362	13,956	18.15	769

SURVIVOR CURVE: IOWA 47-R1.5
NET SALVAGE PERCENT: 0

1992	81,412.62	53,472	41,944	39,469	18.55	2,128
1993	623,250.32	402,121	315,428	307,822	18.97	16,227
1994	280,717.34	177,750	139,429	141,288	19.41	7,279
1995	76,046.14	47,209	37,031	39,015	19.85	1,965
1996	59,587.32	36,229	28,418	31,169	20.31	1,535
1997	75,544.80	44,934	35,247	40,298	20.78	1,939
1998	167,706.07	97,471	76,457	91,249	21.26	4,292
1999	309,733.47	175,681	137,806	171,927	21.75	7,905
2000	550,736.07	304,447	238,811	311,925	22.25	14,019
2001	15,800.73	8,501	6,668	9,133	22.78	401
2002	760,732.75	397,711	311,969	448,764	23.28	19,277
2003	545,224.80	276,538	216,919	328,306	23.81	13,789
2004	210,808.81	103,549	81,225	129,584	24.34	5,324
2005	57,482.37	27,419	21,508	35,974	24.67	1,458
2006	298,730.70	137,446	107,814	190,917	25.23	7,567
2007	6,653.77	2,946	2,311	4,343	25.85	168
2008	9,953.44	4,250	3,334	6,619	26.16	253
2009	8,674.92	3,563	2,795	5,880	26.61	221
2010	459,230.70	180,018	141,208	318,023	27.14	11,718
2011	102,657.70	38,456	30,165	72,493	27.55	2,631
2012	2,268.43	809	635	1,633	28.16	58
2013	157,925.79	53,347	41,846	116,080	28.42	4,084
2014	3,010,171.44	959,041	752,282	2,257,889	28.87	78,209
2015	62,028.22	18,608	14,596	47,432	29.17	1,626
2016	13,515.59	3,792	2,974	10,542	29.45	358
2017	53,818.97	14,014	10,993	42,826	29.82	1,436
2018	21,337.69	5,108	4,007	17,331	30.19	574
2019	3,718,602.03	812,143	637,054	3,081,548	30.41	101,333
2020	465,009.31	91,374	71,675	393,334	30.67	12,825
2021	41,135.45	7,166	5,621	35,514	30.80	1,153
2023	170,797.98	21,760	17,069	153,729	30.83	4,986
2024	196,073.16	20,117	15,780	180,293	30.63	5,886
2025	286,546.89	21,921	17,195	269,352	30.18	8,925
2026	2,166,575.90	105,946	83,105	2,083,471	29.17	71,425
2027	190,442.26	3,580	2,808	187,634	26.10	7,189
	16,961,956.51	5,930,541	4,652,235	12,309,722		482,407

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 25.50 2.84

SURVIVOR CURVE: IOWA 60-R2.5
NET SALVAGE PERCENT: 0

1952	1,389.05	1,185	1,389			
1953	413.79	351	414			
1957	248.58	206	249			
1958	11,049.47	9,094	11,049			
1960	8,791.47	7,136	8,791			
1961	18,302.14	14,745	18,302			
1962	902.77	722	903			
1967	455.51	348	456			
1968	5,533.88	4,190	5,534			
1970	584.56	433	577	8	8.00	1
1971	6,685.24	4,899	6,526	159	15.90	10
1972	391.32	283	377	14	14.00	1
1974	1,721.80	1,216	1,620	102	17.00	6
1975	69,741.40	48,610	64,753	4,988	18.20	274
1976	284.11	195	260	24	24.00	1
1980	9,111.76	5,898	7,857	1,255	21.27	59
1984	2,308.85	1,557	2,074	235	21.36	11
1985	11,046.34	7,324	9,756	1,290	21.50	60
1986	69,091.07	45,020	59,971	9,120	22.19	411
1987	75,322.29	48,199	64,205	11,117	22.78	488
1988	3,264.09	2,050	2,731	533	23.17	23
1990	8,280.05	4,999	6,659	1,621	24.56	66
1992	6,594.59	3,816	5,083	1,512	26.07	58
1994	9,402.84	5,198	6,924	2,479	27.24	91
1997	26,166.16	13,408	17,861	8,305	29.04	286
1998	23,671.17	11,802	15,721	7,950	29.66	268
1999	29,195.18	14,145	18,842	10,353	30.36	341
2000	130,394.90	61,312	81,673	48,722	30.97	1,573
2004	8,451.78	3,496	4,657	3,795	33.29	114
2006	5,084.79	1,946	2,592	2,493	34.63	72
2007	36,149.64	13,267	17,673	18,477	35.33	523
2008	19,789.43	6,946	9,253	10,536	36.08	292
2011	235,615.02	71,156	94,787	140,828	38.14	3,692
2015	9,567.11	2,248	2,995	6,572	40.57	162
2021	43,189.67	5,528	7,364	35,826	44.28	809
2023	54,874.96	4,988	6,644	48,231	44.99	1,072
2025	638,137.81	33,183	44,203	593,935	45.58	13,031
2026	1,109,897.41	35,517	47,312	1,062,585	45.45	23,379
2027	513,384.25	5,801	7,727	505,657	43.75	11,558
	3,204,486.26	502,417	665,764	2,538,722		58,732

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 43.20 1.83

SURVIVOR CURVE: IOWA 30-R2.5
 NET SALVAGE PERCENT: 0

1953	597.38	597	597	
1957	139.38	139	139	
1972	6,119.04	6,088	6,119	
1973	1,697.11	1,680	1,697	
1979	1,203.92	1,128	1,204	
1981	2,893.23	2,666	2,893	
1990	17,052.58	15,347	17,053	
1997	481.23	398	482	(1)
	30,183.87	28,043	30,184	

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 80-R4
NET SALVAGE PERCENT: 0

1874	5.22	5	5
1875	3,511.90	3,512	3,512
1876	399.33	399	399
1877	121.20	121	121
1886	2,347.39	2,347	2,347
1887	351.96	352	352
1888	480.50	480	480
1889	2,276.99	2,277	2,277
1890	836.20	836	836
1891	1,881.69	1,882	1,882
1892	2,891.69	2,892	2,892
1893	668.86	669	669
1894	661.91	662	662
1895	535.27	535	535
1896	10,169.79	10,170	10,170
1897	3,210.24	3,210	3,210
1898	2,342.79	2,343	2,343
1899	2,007.66	2,008	2,008
1900	8,336.26	8,336	8,336
1901	10,739.29	10,739	10,739
1902	14,932.27	14,932	14,932
1903	16,603.95	16,604	16,604
1904	10,314.78	10,315	10,315
1905	13,938.16	13,938	13,938
1906	12,960.19	12,931	12,960
1907	1,885.76	1,878	1,886
1908	4,965.96	4,931	4,966
1909	13,590.56	13,460	13,591
1910	16,291.54	16,098	16,292
1911	11,035.87	10,879	11,036
1912	14,820.96	14,573	14,821
1913	53,756.04	52,708	53,756
1914	38,239.94	37,394	38,240
1915	16,991.79	16,571	16,992
1916	2,952.20	2,871	2,952
1917	4,126.20	4,000	4,126
1918	2,220.14	2,146	2,220
1919	1,209.99	1,166	1,210
1920	411.47	395	411
1921	3,767.72	3,608	3,768
1922	8,718.64	8,322	8,719
1923	11,298.03	10,750	11,298
1924	17,164.02	16,276	17,164
1925	9,370.83	8,855	9,371
1926	10,383.19	9,778	10,383
1927	3,061.15	2,873	3,061
1928	551.84	516	552
1929	2,854.05	2,660	2,854
1930	5,594.99	5,195	5,595
1931	1,764.72	1,633	1,765
1932	322.40	297	322
1933	487.51	448	488
1934	111.11	102	111
1935	4,193.96	3,820	4,194

SURVIVOR CURVE: IOWA 80-R4
NET SALVAGE PERCENT: 0

1936	2,694.95	2,445	2,695			
1937	3,195.38	2,886	3,195			
1938	1,543.42	1,388	1,543			
1939	9,142.81	8,185	9,143			
1940	6,368.41	5,675	6,368			
1941	16,191.28	14,358	16,191			
1942	12,089.15	10,664	12,089			
1943	7,232.95	6,347	7,233			
1944	9,080.15	7,922	9,080			
1945	1,644.37	1,426	1,644			
1946	3,526.19	3,040	3,526			
1947	6,519.10	5,584	6,519			
1948	30,372.15	25,839	30,168	204	12.00	17
1949	31,026.03	26,205	30,595	431	12.31	35
1950	12,676.12	10,627	12,407	269	12.81	21
1951	21,259.43	17,683	20,645	614	13.35	46
1952	19,327.09	15,943	18,614	713	13.98	51
1953	35,687.10	29,183	34,072	1,615	14.55	111
1954	22,934.22	18,588	21,702	1,232	15.21	81
1955	32,705.79	26,259	30,658	2,048	15.75	130
1956	20,253.62	16,104	18,802	1,452	16.31	89
1957	20,779.50	16,359	19,100	1,680	16.97	99
1958	77,494.10	60,377	70,492	7,002	17.68	396
1959	113,486.56	87,485	102,141	11,346	18.33	619
1960	31,395.34	23,935	27,945	3,450	19.06	181
1961	58,106.99	43,813	51,153	6,954	19.70	353
1962	39,442.80	29,400	34,325	5,118	20.39	251
1963	71,371.72	52,574	61,382	9,990	21.08	474
1964	72,638.04	52,862	61,718	10,920	21.80	501
1965	93,204.18	67,003	78,228	14,976	22.49	666
1966	46,284.65	32,857	38,361	7,924	23.24	341
1967	10,964.26	7,682	8,969	1,995	24.04	83
1968	39,479.14	27,295	31,868	7,611	24.71	308
1969	34,106.74	23,261	27,158	6,949	25.45	273
1970	38,596.33	25,956	30,304	8,292	26.24	316
1971	51,648.23	34,237	39,973	11,675	26.96	433
1972	22,060.85	14,408	16,822	5,239	27.72	189
1973	7,138.99	4,592	5,361	1,778	28.68	62
1974	92,191.17	58,380	68,160	24,031	29.34	819
1975	2,242.00	1,397	1,631	611	30.55	20
1976	8,345.99	5,115	5,972	2,374	30.83	77
1977	3,873.43	2,334	2,725	1,148	31.89	36
1978	84,242.26	49,882	58,239	26,003	32.63	797
1979	24,464.37	14,229	16,613	7,851	33.41	235
1980	58,135.91	33,196	38,757	19,379	34.30	565
1981	13,989.25	7,837	9,150	4,839	35.07	138
1982	37,555.24	20,632	24,088	13,467	36.01	374
1983	34,607.87	19,560	22,837	11,771	34.22	344
1984	72,247.97	40,228	46,967	25,281	34.63	730
1985	20,647.40	11,232	13,114	7,533	35.70	211
1986	66,854.26	35,513	41,462	25,392	36.64	693
1987	207,799.90	108,555	126,741	81,059	37.01	2,190
1988	144,488.06	73,631	85,966	58,522	38.03	1,539
1989	137,876.65	68,470	79,941	57,936	39.01	1,485
1990	244,291.28	118,188	137,988	106,303	40.02	2,656

SURVIVOR CURVE: IOWA 80-R4
NET SALVAGE PERCENT: 0

1991	66,846.87	31,719	37,033	29,814	40.40	738
1992	23,800.79	10,984	12,824	10,977	41.42	265
1993	63,862.62	28,642	33,440	30,423	42.43	717
1994	44,318.53	19,301	22,535	21,784	43.39	502
1995	74,651.74	31,540	36,824	37,828	44.40	852
1996	39,258.64	16,198	18,912	20,347	44.82	454
1997	65,568.46	26,201	30,590	34,978	45.84	763
1998	15,268.71	5,900	6,888	8,381	46.82	179
1999	37,476.41	13,994	16,338	21,138	47.82	442
2000	50,113.86	18,051	21,075	29,039	48.81	595
2001	502,822.04	174,580	203,828	298,994	49.83	6,000
2002	150,557.33	50,286	58,710	91,847	50.83	1,807
2003	91,370.41	29,549	34,499	56,871	51.28	1,109
2004	52,145.60	16,176	18,886	33,260	52.30	636
2005	145,956.11	43,349	50,611	95,345	53.27	1,790
2006	27,628.07	7,841	9,155	18,473	54.33	340
2007	51,942.05	14,056	16,411	35,531	55.26	643
2008	164,306.52	42,292	49,377	114,930	56.26	2,043
2009	24,419.44	5,963	6,962	17,457	57.24	305
2010	43,311.35	10,005	11,681	31,630	58.25	543
2011	88,326.95	19,238	22,461	65,866	59.29	1,111
2012	13,622.04	2,787	3,254	10,368	60.28	172
2013	15,156.01	2,901	3,387	11,769	61.30	192
2014	36,947.77	6,584	7,687	29,261	62.26	470
2015	36,574.58	6,035	7,046	29,529	63.23	467
2016	34,368.29	5,258	6,139	28,229	63.72	443
2017	85,120.56	11,883	13,874	71,247	64.71	1,101
2018	48,937.81	6,186	7,222	41,716	65.69	635
2022	2,234.93	164	191	2,044	70.48	29
2024	1,509,664.27	70,350	82,137	1,427,527	71.68	19,915
2025	750,406.88	24,914	29,088	721,319	72.69	9,923
2026	431,284.71	8,626	10,071	421,214	73.68	5,717
2027	560,670.12	3,700	4,320	556,350	74.69	7,449
	8,121,129.68	2,670,777	3,060,664	5,060,466		87,382

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 57.90 1.08

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1920	182.35	182	182			
1954	2,718.88	2,398	2,719			
1955	5,528.42	4,848	5,528			
1964	8,289.98	6,831	8,290			
1978	486,335.94	341,325	437,193	49,143	17.89	2,747
1980	12,052.02	8,199	10,502	1,550	19.14	81
1982	144,492.45	95,101	121,812	22,680	20.51	1,106
1983	5,454.59	3,811	4,881	574	19.13	30
1984	6,913.86	4,752	6,087	827	19.69	42
1991	6,596.96	3,973	5,089	1,508	23.94	63
1995	19,508.20	10,651	13,643	5,865	27.03	217
1996	34,710.81	18,480	23,670	11,041	27.67	399
1997	18,500.00	9,592	12,286	6,214	28.37	219
1999	1,169.44	573	734	435	29.00	15
2001	7,210.91	3,305	4,233	2,978	31.35	95
2006	93,601.90	35,625	45,631	47,971	34.99	1,371
2007	379,284.68	138,401	177,274	202,011	35.68	5,662
2008	596,565.77	208,201	266,679	329,887	36.37	9,070
2009	205,133.93	68,310	87,496	117,638	37.06	3,174
2011	3,201.69	956	1,224	1,978	38.78	51
2022	56,121.60	5,837	7,477	48,645	47.41	1,026
2023	56,660.30	4,844	6,204	50,456	48.15	1,048
2025	13,470.10	647	829	12,641	49.57	255
	2,163,704.78	976,842	1,249,663	914,042		26,671

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 34.30 1.23

SURVIVOR CURVE: IOWA 55-R2.5
NET SALVAGE PERCENT: 0

1915	2,039.02	2,039	2,039			
1921	15.25	15	15			
1926	674.20	672	674			
1933	308.06	297	308			
1936	213.91	203	214			
1938	94.77	89	95			
1942	4,567.33	4,213	4,567			
1946	33.12	30	33			
1947	467.40	422	467			
1948	4,490.90	4,034	4,491			
1949	21,634.60	19,345	21,635			
1950	8,917.38	7,936	8,917			
1951	12,398.99	10,983	12,399			
1952	9,794.83	8,636	9,795			
1953	13,583.85	11,917	13,584			
1954	4,677.51	4,083	4,678			
1955	3,289.22	2,856	3,289			
1956	3,955.53	3,417	3,956			
1957	809.82	696	810			
1958	773.26	661	773			
1959	6,263.37	5,319	6,263			
1960	7,763.15	6,553	7,763			
1961	4,903.21	4,113	4,903			
1962	720.58	601	721			
1963	5,812.66	4,812	5,813			
1964	14,748.06	12,120	14,748			
1965	359.61	293	360			
1966	4,223.66	3,418	4,224			
1967	206.63	166	207			
1968	11,635.65	9,258	11,636			
1969	3,475.25	2,740	3,475			
1970	1,542.20	1,205	1,542			
1971	8,490.84	6,566	8,491			
1973	13,809.31	10,452	13,809			
1974	1,991.11	1,490	1,991			
1975	635.87	470	636			
1976	1,120.08	818	1,120			
1978	32,091.49	22,814	32,091			
1979	11,321.38	7,933	11,321			
1980	0.01					
1981	27,039.82	18,387	27,040			
1983	2,322.66	1,685	2,323			
1984	35,991.84	25,677	35,992			
1985	12,866.74	9,022	12,867			
1986	2,980.58	2,066	2,981			
1987	20,248.43	13,777	20,248			
1988	1,833.40	1,224	1,833			
1989	6,868.66	4,496	6,869			
1990	443.70	286	444			
1991	1,335.51	843	1,336			
1993	86,082.31	51,976	84,091	1,991	22.63	88
1994	5,801.95	3,441	5,567	235	23.50	10
1995	1,205.33	697	1,128	77	25.67	3
1997	4,740.41	2,602	4,210	530	25.24	21

SURVIVOR CURVE: IOWA 55-R2.5
NET SALVAGE PERCENT: 0

1998	5,820.43	3,125	5,056	764	25.47	30
1999	42,005.79	21,910	35,448	6,558	26.13	251
2000	2,641.28	1,336	2,161	480	26.67	18
2002	7,408.89	3,514	5,685	1,724	28.26	61
2003	115,950.81	53,407	86,406	29,545	28.68	1,030
2004	74,594.44	33,135	53,608	20,986	29.39	714
2005	44,125.47	18,864	30,520	13,605	30.10	452
2006	23,119.09	9,544	15,441	7,678	30.59	251
2007	223.16	88	142	81	27.00	3
2008	369,366.95	139,732	226,069	143,298	32.05	4,471
2010	119,355.96	41,154	66,582	52,774	33.25	1,587
2011	11,451.64	3,741	6,052	5,400	33.96	159
2014	222,953.81	60,800	98,367	124,587	36.00	3,461
2017	149,925.02	32,594	52,733	97,192	37.80	2,571
2022	106,274.09	12,625	20,426	85,848	40.80	2,104
2023	208.26	21	34	174	43.50	4
	1,729,039.50	755,454	1,135,512	593,528		17,289

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 34.30 1.00

SURVIVOR CURVE: IOWA 45-R2
NET SALVAGE PERCENT: 0

1904	97.85	98	98			
1920	3,071.90	3,072	3,072			
1923	403.86	404	404			
1927	72.55	73	73			
1929	261.39	261	261			
1930	294.47	294	294			
1932	95.28	95	95			
1937	237.51	238	238			
1939	19.57	20	20			
1941	2,931.40	2,931	2,931			
1947	529.70	520	530			
1949	416.19	404	416			
1950	3,524.86	3,401	3,525			
1951	1,022.22	980	1,022			
1952	5,364.58	5,111	5,365			
1953	2,751.48	2,604	2,751			
1954	2,503.83	2,354	2,504			
1955	1,688.17	1,576	1,688			
1956	69.33	64	69			
1958	3,139.09	2,871	3,139			
1959	727.82	661	728			
1964	948.40	830	948			
1969	176.01	148	176			
1974	304.86	245	299	6	6.00	1
1980	5,852.63	4,383	5,356	497	11.30	44
1983	414.15	328	401	13	13.00	1
1984	12,992.80	10,173	12,432	561	11.94	47
1986	483.17	369	451	32	16.00	2
1989	6,269.91	4,586	5,604	666	14.17	47
1990	3,452.63	2,486	3,038	415	14.82	28
1991	4,259.48	3,016	3,686	573	15.08	38
1992	6,560.01	4,564	5,578	982	15.59	63
1993	1,344.70	919	1,123	222	15.86	14
1996	4,261.43	2,738	3,346	915	17.60	52
1997	548.91	345	422	127	18.14	7
1998	1,713.94	1,052	1,286	428	18.61	23
2003	3,060.34	1,635	1,998	1,062	21.24	50
2010	5,254.57	2,152	2,629	2,626	25.25	104
2011	7,667.97	2,986	3,649	4,019	25.93	155
	94,788.96	70,987	81,645	13,144		676

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 19.40 0.71

SURVIVOR CURVE: IOWA 80-R2.5
NET SALVAGE PERCENT: 0

1875	6,096.00	6,096	6,096			
1886	2,035.78	1,989	2,036			
1887	12,972.30	12,635	12,972			
1888	5,047.58	4,899	5,048			
1889	1,216.92	1,177	1,217			
1890	7,547.70	7,275	7,548			
1891	11,549.33	11,093	11,549			
1892	8,217.88	7,865	8,218			
1893	14,622.44	13,944	14,622			
1894	1,426.22	1,355	1,426			
1896	2,075.03	1,958	2,075			
1897	9,425.36	8,862	9,425			
1899	20,227.58	18,895	20,228			
1900	77,297.27	71,973	77,297			
1901	28,961.36	26,883	28,961			
1902	152,773.87	141,374	152,774			
1903	18,226.69	16,816	18,227			
1904	412.03	379	412			
1905	32,959.80	30,228	32,960			
1906	71,036.90	64,963	71,037			
1907	6,101.12	5,563	6,101			
1908	14,411.59	13,100	14,412			
1909	21,455.69	19,444	21,456			
1910	8,466.02	7,649	8,466			
1911	17,700.02	15,943	17,700			
1912	20,131.59	18,078	20,132			
1913	2,977.71	2,665	2,978			
1914	52,545.07	46,883	52,545			
1915	25,034.49	22,265	25,034			
1916	22,249.55	19,724	22,250			
1917	65,427.23	57,813	65,427			
1918	1,861.98	1,640	1,862			
1919	19,445.29	17,066	19,445			
1920	885.29	774	885			
1921	20,100.86	17,520	20,101			
1922	12,020.32	10,440	12,020			
1923	2,040.16	1,766	2,040			
1924	78,314.80	67,517	78,315			
1925	136,043.81	116,845	136,044			
1926	129,700.54	110,974	129,701			
1927	43,556.65	37,121	43,557			
1928	13,985.18	11,872	13,985			
1929	32,129.86	27,158	32,130			
1930	42,033.80	35,382	42,034			
1931	28,382.24	23,784	28,382			
1932	10,206.55	8,515	10,207			
1933	8,068.61	6,700	8,069			
1934	4,169.19	3,446	4,169			
1935	51,750.14	42,558	51,687	63	15.75	4
1936	43,815.62	35,852	43,543	273	14.37	19
1937	55,163.82	44,897	54,528	636	14.79	43
1938	39,565.14	32,028	38,898	667	15.16	44
1939	116,758.38	93,976	114,135	2,623	15.61	168
1940	28,506.70	22,812	27,706	801	16.02	50

SURVIVOR CURVE: IOWA 80-R2.5
NET SALVAGE PERCENT: 0

1941	38,643.11	30,741	37,335	1,308	16.35	80
1942	93,012.91	73,527	89,300	3,713	16.73	222
1943	40,723.32	31,988	38,850	1,873	17.18	109
1944	114,956.07	89,694	108,935	6,021	17.61	342
1945	16,087.59	12,468	15,143	945	18.17	52
1946	22,612.57	17,400	21,133	1,480	18.50	80
1947	61,745.94	47,166	57,284	4,462	18.91	236
1948	692,549.76	525,036	637,664	54,886	19.35	2,836
1949	1,164,125.65	875,714	1,063,568	100,558	19.82	5,074
1950	230,083.00	171,699	208,531	21,552	20.29	1,062
1951	245,586.33	181,763	220,754	24,832	20.80	1,194
1952	1,236,346.69	907,330	1,101,966	134,381	21.29	6,312
1953	553,404.91	402,602	488,966	64,439	21.80	2,956
1954	758,238.12	546,599	663,853	94,385	22.33	4,227
1955	933,952.75	667,076	810,174	123,779	22.86	5,415
1956	435,915.36	308,358	374,505	61,410	23.41	2,623
1957	1,331,947.96	933,030	1,133,179	198,769	23.96	8,296
1958	875,116.22	606,788	736,953	138,163	24.53	5,632
1959	1,845,950.88	1,266,784	1,538,529	307,422	25.10	12,248
1960	709,676.04	481,870	585,238	124,438	25.68	4,846
1961	1,669,650.44	1,121,170	1,361,678	307,972	26.28	11,719
1962	1,559,432.42	1,035,463	1,257,586	301,846	26.88	11,229
1963	1,810,980.21	1,188,691	1,443,683	367,297	27.49	13,361
1964	1,794,430.56	1,163,904	1,413,579	380,852	28.11	13,549
1965	827,391.13	530,151	643,876	183,515	28.74	6,385
1966	1,266,192.10	801,183	973,049	293,143	29.38	9,978
1967	1,123,382.30	701,833	852,387	270,995	30.02	9,027
1968	1,065,982.28	657,178	798,153	267,829	30.68	8,730
1969	1,223,205.74	744,015	903,618	319,588	31.34	10,197
1970	786,294.79	471,683	572,866	213,429	32.01	6,668
1971	646,196.35	382,148	464,125	182,071	32.69	5,570
1972	1,923,659.88	1,121,263	1,361,791	561,869	33.37	16,838
1973	1,252,942.89	719,502	873,846	379,097	34.06	11,130
1974	852,197.45	481,918	585,297	266,900	34.76	7,678
1975	678,454.24	377,641	458,651	219,803	35.47	6,197
1976	565,962.21	310,006	376,507	189,455	36.18	5,236
1977	1,065,001.35	573,769	696,851	368,150	36.90	9,977
1978	4,806,601.01	2,545,672	3,091,758	1,714,843	37.63	45,571
1979	2,204,684.51	1,147,538	1,393,702	810,983	38.36	21,141
1980	778,923.27	398,225	483,650	295,273	39.10	7,552
1981	2,370,402.75	1,189,658	1,444,858	925,545	39.85	23,226
1982	2,152,485.98	1,060,099	1,287,506	864,980	40.60	21,305
1983	1,048,278.68	578,440	702,524	345,755	36.15	9,564
1984	3,407,628.50	1,838,075	2,232,370	1,175,258	37.15	31,635
1985	2,462,419.49	1,308,037	1,588,631	873,788	37.50	23,301
1986	2,543,844.38	1,330,176	1,615,519	928,325	37.87	24,513
1987	4,111,112.19	2,097,901	2,547,933	1,563,179	38.87	40,216
1988	1,732,086.60	868,815	1,055,189	676,898	39.24	17,250
1989	3,077,967.19	1,505,126	1,827,999	1,249,968	40.24	31,063
1990	7,244,240.44	3,477,235	4,223,155	3,021,085	40.62	74,374
1991	4,292,271.62	2,020,801	2,454,294	1,837,978	41.02	44,807
1992	2,388,704.03	1,094,026	1,328,711	1,059,993	42.02	25,226
1993	3,000,488.28	1,345,719	1,634,396	1,366,092	42.42	32,204
1994	2,064,385.05	899,040	1,091,898	972,487	43.42	22,397
1995	2,163,179.32	921,082	1,118,668	1,044,511	43.83	23,831

SURVIVOR CURVE: IOWA 80-R2.5
NET SALVAGE PERCENT: 0

1996	2,198,139.59	913,986	1,110,050	1,088,090	44.26	24,584
1997	3,607,035.83	1,452,193	1,763,711	1,843,325	45.26	40,727
1998	2,310,384.78	906,595	1,101,073	1,209,312	45.68	26,474
1999	2,668,724.65	1,011,447	1,228,418	1,440,307	46.69	30,848
2000	2,787,656.38	1,027,251	1,247,612	1,540,044	47.13	32,677
2001	2,228,959.44	797,522	968,603	1,260,356	47.57	26,495
2002	3,066,908.90	1,055,630	1,282,079	1,784,830	48.58	36,740
2003	2,313,911.35	770,995	936,385	1,377,526	49.03	28,096
2004	3,349,556.33	1,070,518	1,300,160	2,049,396	50.03	40,963
2005	8,663,176.15	2,669,991	3,242,745	5,420,431	50.50	107,335
2006	7,615,000.67	2,259,371	2,744,041	4,870,960	50.96	95,584
2007	6,833,867.28	1,933,301	2,348,024	4,485,843	51.96	86,333
2008	7,005,922.89	1,898,605	2,305,885	4,700,038	52.45	89,610
2009	4,452,977.43	1,153,321	1,400,726	3,052,251	52.93	57,666
2010	8,509,144.96	2,084,741	2,531,950	5,977,195	53.93	110,832
2011	11,216,890.85	2,609,049	3,168,730	8,048,161	54.43	147,863
2012	8,318,478.97	1,830,897	2,223,652	6,094,827	54.92	110,976
2013	10,477,114.68	2,172,954	2,639,086	7,838,029	55.43	141,404
2014	7,005,553.18	1,352,072	1,642,112	5,363,441	56.43	95,046
2015	5,404,399.39	972,792	1,181,471	4,222,928	56.94	74,165
2016	3,374,662.43	562,894	683,643	2,691,019	57.46	46,833
2017	14,019,574.62	2,149,201	2,610,237	11,409,338	57.99	196,747
2018	2,824,026.30	394,234	478,803	2,345,223	58.53	40,069
2019	11,535,462.30	1,451,161	1,762,457	9,773,005	59.07	165,448
2020	5,065,538.89	566,327	687,813	4,377,726	59.61	73,439
2021	1,530,769.05	149,250	181,266	1,349,503	60.17	22,428
2022	32,442,938.33	2,712,230	3,294,045	29,148,893	60.29	483,478
2023	21,729,861.28	1,505,879	1,828,913	19,900,948	60.44	329,268
2024	17,279,974.53	936,575	1,137,485	16,142,490	61.02	264,544
2025	14,535,955.28	574,170	697,338	13,838,617	60.79	227,646
2026	9,749,023.33	236,901	287,720	9,461,303	60.23	157,086
2027	10,922,190.86	93,931	114,081	10,808,110	57.98	186,411
	340,064,648.76	88,911,229	107,876,550	232,188,099		4,344,630

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 53.40 1.28

SURVIVOR CURVE: IOWA 42-S0.5
NET SALVAGE PERCENT: 0

1920	588.87	589	589			
1936	121.47	121	121			
1938	662.87	663	663			
1942	87.30	87	87			
1950	1,369.83	1,295	1,370			
1952	24,547.31	22,823	24,547			
1954	13,251.34	12,109	13,251			
1955	46,350.14	41,980	46,350			
1956	1,190.69	1,069	1,191			
1957	56.13	50	56			
1959	1,660.91	1,451	1,661			
1960	373.95	324	374			
1962	29,546.47	25,107	29,192	354	6.32	56
1963	3,575.15	3,009	3,499	76	6.91	11
1964	42,163.23	35,146	40,865	1,298	6.98	186
1965	750.72	620	721	30	7.50	4
1971	544.20	422	491	53	8.83	6
1972	193.90	149	173	21	10.50	2
1974	100.94	76	88	13	13.00	1
1975	895.90	663	771	125	11.36	11
1978	1,224,815.74	873,122	1,015,192	209,624	12.06	17,382
1979	2,194.57	1,544	1,795	400	12.50	32
1980	2,168.28	1,505	1,750	418	12.67	33
1981	92,732.47	63,499	73,831	18,901	13.24	1,428
1982	315,947.64	213,340	248,054	67,894	13.64	4,978
1983	33,487.28	26,080	30,324	3,163	12.65	250
1984	49,741.55	38,301	44,533	5,209	12.99	401
1985	4,985.58	3,793	4,410	576	13.40	43
1986	17,621.16	13,309	15,475	2,146	13.41	160
1987	14,344.71	10,690	12,429	1,916	13.88	138
1988	561.21	412	479	82	13.67	6
1989	13,601.70	9,897	11,507	2,095	14.45	145
1990	44,287.08	31,718	36,879	7,408	14.85	499
1991	15,474.50	10,900	12,674	2,800	15.30	183
1992	4,018.98	2,796	3,251	768	15.67	49
1993	35,202.07	24,047	27,960	7,242	16.02	452
1994	26,107.08	17,581	20,442	5,665	16.23	349
1995	61,158.12	40,548	47,146	14,012	16.52	848
1996	240,071.26	156,526	181,995	58,076	16.81	3,455
1997	10,466.27	6,671	7,756	2,710	17.37	156
1998	50,823.45	31,785	36,957	13,866	17.66	785
1999	8,598.03	5,269	6,126	2,472	18.04	137
2000	2,347.51	1,407	1,636	712	18.26	39
2001	447,715.17	262,182	304,843	142,872	18.75	7,620
2002	48,464.14	27,809	32,334	16,130	18.93	852
2003	397,101.62	221,821	257,915	139,187	19.36	7,189
2004	86,094.98	46,732	54,336	31,759	19.79	1,605
2005	1,758,652.99	929,976	1,081,297	677,356	20.05	33,783
2006	448,757.99	229,629	266,993	181,765	20.52	8,858
2007	1,873,764.31	929,574	1,080,829	792,935	20.82	38,085
2008	1,805,963.86	862,890	1,003,295	802,669	21.31	37,666
2009	1,850,921.03	852,534	991,254	859,667	21.66	39,689
2010	108,322.94	47,965	55,770	52,553	22.02	2,387
2011	1,414,101.38	599,579	697,139	716,962	22.41	31,993

SURVIVOR CURVE: IOWA 42-S0.5
NET SALVAGE PERCENT: 0

2012	200,425.93	81,092	94,287	106,139	22.81	4,653
2013	99,357.92	38,173	44,384	54,974	23.24	2,365
2014	2,654,708.68	967,641	1,125,090	1,529,619	23.54	64,980
2015	75,417.92	25,831	30,034	45,384	24.00	1,891
2017	85,112.77	25,296	29,412	55,701	24.83	2,243
2019	158,904.59	39,567	46,005	112,900	25.63	4,405
2020	3,967.58	887	1,031	2,937	25.99	113
2021	202,574.30	40,029	46,542	156,032	26.39	5,913
2022	45,143.57	7,674	8,923	36,221	26.85	1,349
2023	2,381,134.16	337,645	392,585	1,988,549	27.24	73,001
2024	55,218.21	6,207	7,217	48,001	27.65	1,736
2025	707,602.97	58,023	67,464	640,139	27.99	22,870
2026	3,478,386.10	174,615	203,028	3,275,358	28.35	115,533
2027	872,920.48	15,014	17,457	855,463	28.57	29,943
	23,699,523.15	8,560,878	9,948,125	13,751,398		572,947

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 24.00 2.42

SURVIVOR CURVE: IOWA 48-R1.5
NET SALVAGE PERCENT: 0

1905	126.54	127	127			
1916	12.60	13	13			
1917	15.86	16	16			
1918	7.93	8	8			
1919	26.60	27	27			
1920	118.60	119	119			
1925	7.93	8	8			
1926	134.47	134	134			
1927	64.50	64	64			
1928	18.22	18	18			
1929	364.43	364	364			
1930	196.59	197	197			
1931	253.08	253	253			
1934	42.77	42	43			
1935	1,536.89	1,495	1,537			
1936	967.67	934	968			
1937	1,132.95	1,086	1,133			
1940	1,347.54	1,265	1,348			
1941	93.93	88	94			
1942	656.27	609	656			
1943	318.10	294	318			
1945	9.15	8	9			
1946	135.52	123	136			
1947	723.80	654	724			
1948	1,103.31	992	1,103			
1949	19,012.64	16,997	19,013			
1950	22,632.07	20,114	22,632			
1951	1,055.60	933	1,056			
1952	7,684.33	6,746	7,684			
1953	23,479.08	20,485	23,479			
1954	12,229.29	10,599	12,229			
1955	24,478.48	21,077	24,478			
1956	11,168.72	9,552	11,169			
1957	41,183.58	34,972	41,184			
1958	43,194.02	36,418	43,194			
1959	7,674.18	6,424	7,674			
1960	730.98	607	731			
1961	12,984.07	10,704	12,984			
1962	20,117.51	16,455	20,118			
1963	5,825.27	4,727	5,825			
1964	91,215.53	73,409	91,216			
1965	39,203.07	31,281	38,871	332	9.76	34
1966	25,342.05	20,047	24,911	431	10.02	43
1967	36,160.66	28,341	35,218	943	10.36	91
1968	232,768.33	180,784	224,649	8,119	10.73	757
1969	106,656.48	82,037	101,942	4,714	11.09	425
1970	12,862.77	9,794	12,170	693	11.36	61
1971	70,557.32	53,168	66,069	4,488	11.84	379
1972	18,403.41	13,722	17,052	1,351	12.17	111
1973	28,168.23	20,768	25,807	2,361	12.63	187
1974	38,485.99	28,055	34,862	3,624	12.99	279
1975	11,710.58	8,434	10,480	1,231	13.38	92
1976	29,364.78	20,892	25,961	3,404	13.84	246
1977	16,068.90	11,285	14,023	2,046	14.31	143

SURVIVOR CURVE: IOWA 48-R1.5
NET SALVAGE PERCENT: 0

1978	224,805.65	155,772	193,569	31,237	14.74	2,119
1979	209,457.50	143,129	177,858	31,600	15.20	2,079
1980	227,219.00	153,041	190,175	37,044	15.67	2,364
1981	291,731.44	193,575	240,544	51,187	16.15	3,169
1982	162,019.48	105,852	131,536	30,483	16.64	1,832
1983	159,618.68	118,629	147,413	12,206	15.37	794
1984	132,296.44	97,264	120,864	11,432	15.66	730
1985	160,843.07	116,901	145,266	15,577	15.98	975
1986	65,938.78	47,067	58,487	7,452	16.63	448
1987	387,057.16	272,759	338,941	48,116	16.97	2,835
1988	74,767.82	51,979	64,591	10,177	17.31	588
1989	226,119.87	154,078	191,464	34,656	18.00	1,925
1990	166,720.41	111,903	139,055	27,665	18.37	1,506
1991	377,410.40	249,317	309,811	67,599	18.75	3,605
1992	164,358.62	106,767	132,673	31,686	19.15	1,655
1993	669,689.83	427,396	531,100	138,590	19.56	7,085
1994	293,243.06	182,720	227,055	66,188	20.26	3,267
1995	344,960.16	210,771	261,913	83,047	20.69	4,014
1996	144,515.02	86,492	107,478	37,037	21.13	1,753
1997	675,914.51	395,816	491,857	184,058	21.58	8,529
1998	737,014.67	421,793	524,137	212,878	22.05	9,654
1999	272,953.67	152,472	189,468	83,486	22.52	3,707
2000	274,736.35	149,594	185,892	88,844	23.01	3,861
2001	272,488.14	144,419	179,461	93,027	23.50	3,959
2002	1,106,872.95	570,150	708,491	398,382	24.00	16,599
2003	657,073.40	328,405	408,089	248,984	24.52	10,154
2004	1,657,855.47	802,568	997,303	660,552	25.04	26,380
2005	190,853.84	89,320	110,993	79,861	25.58	3,122
2006	1,227,791.91	556,926	692,059	535,733	25.90	20,685
2007	1,209,410.51	528,029	656,150	553,261	26.45	20,917
2008	515,036.91	215,903	268,290	246,747	27.01	9,135
2009	586,781.93	236,649	294,070	292,712	27.37	10,695
2010	1,164,516.48	450,435	559,729	604,787	27.75	21,794
2011	1,553,605.94	571,727	710,451	843,155	28.34	29,751
2012	2,426,442.91	849,983	1,056,223	1,370,220	28.75	47,660
2013	1,157,442.17	384,271	477,511	679,931	29.17	23,309
2014	1,487,733.56	465,958	579,018	908,716	29.60	30,700
2015	1,754,329.37	517,527	643,100	1,111,229	29.87	37,202
2016	1,954,864.73	537,197	667,543	1,287,322	30.34	42,430
2017	10,872,134.31	2,774,569	3,447,791	7,424,343	30.65	242,230
2018	436,454.33	102,829	127,780	308,674	30.82	10,015
2019	448,642.65	96,099	119,416	329,227	31.18	10,559
2020	550,310.12	106,100	131,844	418,466	31.41	13,323
2021	161,911.25	27,687	34,405	127,506	31.52	4,045
2022	894,836.98	132,883	165,126	729,711	31.54	23,136
2023	5,220,796.40	653,122	811,596	4,409,200	31.47	140,108
2024	535,871.62	53,802	66,857	469,015	31.34	14,965
2025	495,962.91	37,197	46,222	449,741	30.83	14,588
2026	2,463,205.62	118,234	146,922	2,316,284	29.75	77,858
2027	5,287,487.74	97,290	120,897	5,166,591	26.60	194,233
	53,753,938.92	16,362,131	20,314,582	33,439,357		1,170,894

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.60 2.18

SURVIVOR CURVE: IOWA 35-R1
NET SALVAGE PERCENT: 0

1953	2,740.74	2,741	2,741			
1954	35.60	36	36			
1955	351.02	351	351			
1961	756.22	729	756			
1965	3,429.65	3,179	3,430			
1968	1,634.56	1,473	1,635			
1969	2,732.34	2,440	2,732			
1970	2,520.94	2,229	2,521			
1974	578.55	490	579			
1975	236.10	198	236			
1976	1,215.86	1,006	1,216			
1979	17,650.83	14,065	17,651			
1982	4,504.21	3,443	4,334	170	8.10	21
1986	2,135.76	1,755	2,136			
1987	256.35	208	256			
1989	26,482.55	20,900	26,313	170	10.00	17
1990	14.84	12	15			
1991	4,856.79	3,741	4,710	147	11.31	13
1992	8,073.07	6,133	7,721	352	11.35	31
1993	12,151.68	9,055	11,400	752	11.75	64
1994	35,464.43	26,017	32,755	2,709	12.15	223
1995	17,491.87	12,620	15,888	1,604	12.53	128
1996	17,646.12	12,508	15,747	1,899	12.92	147
1997	108,647.75	75,554	95,122	13,526	13.37	1,012
1998	56,483.33	38,488	48,456	8,027	13.79	582
1999	28,011.20	18,762	23,621	4,390	14.07	312
2000	86,140.66	56,379	70,981	15,160	14.52	1,044
2002	78,749.24	49,203	61,946	16,803	15.30	1,098
2003	46,378.35	28,179	35,477	10,901	15.82	689
2004	24,561.39	14,545	18,312	6,249	16.19	386
2008	111,157.57	57,869	72,856	38,302	17.96	2,133
2011	19,861.33	9,208	11,593	8,268	19.09	433
2013	5,239.33	2,211	2,784	2,455	19.80	124
2014	4,900.00	1,958	2,465	2,435	20.29	120
2015	553,624.92	208,993	263,120	290,505	20.61	14,095
2016	295,458.11	105,006	132,201	163,257	20.86	7,826
2017	631,609.62	209,568	263,844	367,766	21.15	17,388
2018	241,146.06	73,984	93,145	148,001	21.46	6,897
2019	4,636.30	1,308	1,647	2,989	21.66	138
2021	160,434.13	36,707	46,214	114,220	21.91	5,213
2023	30,785.92	5,264	6,627	24,159	21.82	1,107
	2,650,785.29	1,118,515	1,405,570	1,245,215		61,241

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 20.30 2.31

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1876	535.18	535	535			
1881	11.59	12	12			
1885	352.00	352	352			
1887	302.11	302	302			
1888	303.80	304	304			
1889	1,640.73	1,641	1,641			
1890	466.90	467	467			
1891	254.53	255	255			
1892	366.62	367	367			
1894	1,419.69	1,420	1,420			
1895	115.83	116	116			
1896	12.76	13	13			
1897	541.59	542	542			
1898	187.32	187	187			
1899	1,358.95	1,359	1,359			
1900	1,487.01	1,487	1,487			
1901	57,750.82	57,751	57,751			
1902	20,985.66	20,986	20,986			
1903	55,757.91	55,758	55,758			
1904	6,974.52	6,975	6,975			
1905	20,820.07	20,820	20,820			
1906	12,696.56	12,697	12,697			
1907	3,991.47	3,991	3,991			
1908	3,682.91	3,683	3,683			
1909	2,061.23	2,061	2,061			
1910	3,165.76	3,166	3,166			
1911	6,116.69	6,117	6,117			
1912	12,423.56	12,424	12,424			
1913	7,267.85	7,256	7,268			
1914	8,650.32	8,617	8,650			
1915	16,578.55	16,468	16,579			
1916	3,836.99	3,806	3,837			
1917	3,163.19	3,129	3,163			
1918	1,448.90	1,429	1,449			
1919	1,808.38	1,779	1,808			
1920	5,435.30	5,332	5,435			
1921	3,077.86	3,010	3,078			
1922	6,721.09	6,555	6,721			
1923	7,711.85	7,499	7,712			
1924	3,514.28	3,406	3,514			
1925	4,311.45	4,166	4,311			
1926	2,267.36	2,184	2,267			
1927	3,524.17	3,382	3,517	7	3.50	2
1928	1,429.17	1,367	1,421	8	4.00	2
1929	3,436.00	3,275	3,405	31	3.44	9
1930	5,769.25	5,479	5,697	72	3.79	19
1931	4,799.02	4,542	4,723	76	4.00	19
1932	2,986.25	2,816	2,928	58	4.14	14
1933	884.91	831	864	21	4.20	5
1934	985.72	923	960	26	5.20	5
1935	975.62	910	946	30	5.00	6
1936	3,380.64	3,140	3,265	116	5.27	22
1937	4,752.29	4,397	4,572	180	5.63	32
1938	3,461.64	3,190	3,317	145	5.80	25

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1939	8,948.17	8,212	8,539	409	6.20	66
1940	12,537.47	11,458	11,914	623	6.49	96
1941	25,958.06	23,622	24,563	1,395	6.74	207
1942	6,103.48	5,530	5,750	353	7.06	50
1943	1,382.06	1,246	1,296	86	7.17	12
1944	3,132.18	2,811	2,923	209	7.74	27
1945	16,033.54	14,321	14,891	1,143	7.99	143
1946	8,719.44	7,749	8,058	661	8.37	79
1947	11,572.43	10,229	10,636	936	8.75	107
1948	11,368.64	9,992	10,390	979	9.06	108
1949	10,266.47	8,970	9,327	939	9.48	99
1950	29,719.87	25,805	26,833	2,887	9.89	292
1951	39,412.01	34,000	35,354	4,058	10.30	394
1952	23,927.58	20,498	21,314	2,614	10.76	243
1953	16,401.19	13,950	14,505	1,896	11.22	169
1954	22,305.55	18,826	19,576	2,730	11.72	233
1955	27,554.94	23,069	23,988	3,567	12.22	292
1956	27,566.98	22,884	23,795	3,772	12.74	296
1957	24,760.10	20,373	21,184	3,576	13.29	269
1958	95,103.66	77,529	80,616	14,488	13.86	1,045
1959	31,478.89	25,410	26,422	5,057	14.45	350
1960	27,074.73	21,635	22,497	4,578	15.06	304
1961	56,566.83	44,726	46,507	10,060	15.69	641
1962	22,814.68	17,844	18,555	4,260	16.32	261
1963	32,627.88	25,232	26,237	6,391	17.00	376
1964	37,595.96	28,738	29,882	7,714	17.65	437
1965	37,095.20	28,019	29,135	7,960	18.34	434
1966	32,185.46	24,019	24,975	7,210	19.02	379
1967	56,370.01	41,541	43,195	13,175	19.72	668
1968	51,176.17	37,229	38,711	12,465	20.43	610
1969	31,060.18	22,301	23,189	7,871	21.16	372
1970	37,964.75	26,889	27,960	10,005	21.89	457
1971	41,657.49	29,099	30,258	11,399	22.62	504
1972	26,813.77	18,462	19,197	7,617	23.37	326
1973	51,687.84	35,072	36,469	15,219	24.12	631
1974	43,648.85	29,169	30,331	13,318	24.89	535
1975	26,973.73	17,749	18,456	8,518	25.66	332
1976	23,771.53	15,391	16,004	7,768	26.42	294
1977	29,833.89	19,002	19,759	10,075	27.23	370
1978	40,220.45	25,183	26,186	14,034	28.07	500
1979	59,805.49	36,800	38,265	21,540	28.84	747
1980	61,795.41	37,341	38,828	22,967	29.67	774
1981	80,440.05	47,717	49,617	30,823	30.52	1,010
1982	66,323.68	38,600	40,137	26,187	31.36	835
1983	75,703.69	45,483	47,294	28,410	29.56	961
1984	49,386.28	29,000	30,155	19,231	30.57	629
1985	56,685.75	32,764	34,069	22,617	31.02	729
1986	60,050.04	33,892	35,242	24,808	32.01	775
1987	96,831.16	53,335	55,459	41,372	33.02	1,253
1988	101,680.52	55,029	57,220	44,461	33.48	1,328
1989	99,008.25	52,217	54,296	44,712	34.50	1,296
1990	116,992.90	60,111	62,505	54,488	35.50	1,535
1991	88,606.59	44,631	46,408	42,199	35.98	1,173
1992	159,574.41	78,176	81,289	78,285	36.96	2,118
1993	145,170.76	69,116	71,868	73,303	37.96	1,931

SURVIVOR CURVE: IOWA 75-R4
NET SALVAGE PERCENT: 0

1994	116,906.29	54,046	56,198	60,708	38.97	1,558
1995	95,713.43	43,243	44,965	50,748	39.43	1,287
1996	49,135.34	21,511	22,368	26,767	40.43	662
1997	160,911.05	68,226	70,943	89,968	41.44	2,171
1998	78,529.79	32,197	33,479	45,051	42.46	1,061
1999	136,298.12	54,001	56,151	80,147	43.44	1,845
2000	121,853.66	46,914	48,782	73,072	43.94	1,663
2001	389,701.31	144,579	150,336	239,365	44.93	5,328
2002	248,302.90	88,644	92,174	156,129	45.93	3,399
2003	535,657.43	183,730	191,046	344,611	46.93	7,343
2004	237,666.40	78,192	81,305	156,361	47.93	3,262
2005	320,451.32	100,942	104,961	215,490	48.93	4,404
2006	499,428.35	150,328	156,314	343,114	49.93	6,872
2007	209,830.34	60,641	63,056	146,774	50.44	2,910
2008	111,669.23	30,709	31,932	79,737	51.41	1,551
2009	48,393.49	12,621	13,124	35,269	52.41	673
2010	45,085.01	11,127	11,570	33,515	53.45	627
2011	249,454.99	58,023	60,333	189,122	54.42	3,475
2012	165,726.91	36,228	37,671	128,056	55.41	2,311
2013	30,336.74	6,201	6,448	23,889	56.48	423
2014	1,150.00	219	228	922	57.63	16
2015	12,300.58	2,167	2,253	10,048	58.42	172
2016	107,526.45	17,441	18,135	89,391	59.44	1,504
2017	203,905.99	30,178	31,380	172,526	60.43	2,855
2018	2,388.00	320	333	2,055	62.27	33
2020	12,955.85	1,380	1,435	11,521	62.96	183
2024	3,724,469.78	185,106	192,476	3,531,994	66.92	52,779
2025	1,038,567.42	36,869	38,337	1,000,230	67.92	14,727
2026	908,022.62	19,341	20,111	887,912	68.92	12,883
2027	1,180,429.41	8,381	8,715	1,171,714	69.92	16,758
	13,850,177.11	3,516,177	3,645,783	10,204,394		184,997

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 55.20 1.34

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1903	78.07	78	78
1908	18.22	18	18
1912	8.89	9	9
1913	1,265.54	1,234	1,266
1914	1,528.48	1,485	1,528
1915	1,875.59	1,814	1,876
1917	952.44	913	952
1918	2,401.48	2,293	2,401
1919	760.01	722	760
1920	329.80	312	330
1921	1,627.92	1,533	1,628
1922	1,269.88	1,190	1,270
1923	566.88	529	567
1924	590.36	548	590
1925	3,431.57	3,171	3,432
1926	1,223.80	1,125	1,224
1927	3,369.45	3,083	3,369
1928	4,685.15	4,266	4,685
1929	2,808.17	2,545	2,808
1930	3,752.18	3,383	3,752
1931	654.02	587	654
1932	1,790.23	1,598	1,790
1933	362.29	322	362
1934	292.64	259	293
1935	1,607.74	1,413	1,608
1936	3,430.94	3,000	3,431
1937	3,855.32	3,354	3,855
1938	2,086.75	1,806	2,087
1939	1,621.69	1,396	1,622
1940	1,630.75	1,396	1,631
1941	1,977.74	1,683	1,978
1942	10,081.21	8,530	10,081
1943	1,959.70	1,649	1,960
1944	6,099.32	5,101	6,099
1945	1,319.10	1,096	1,319
1946	9,946.45	8,216	9,946
1947	9,470.89	7,772	9,471
1948	23,917.55	19,498	23,918
1949	28,343.97	22,954	28,344
1950	31,444.61	25,286	31,445
1951	45,753.79	36,533	45,754
1952	75,668.46	59,976	75,668
1953	64,771.18	50,950	64,771
1954	20,566.35	16,055	20,566
1955	45,221.41	35,015	45,221
1956	34,096.11	26,186	34,096
1957	37,934.00	28,888	37,934
1958	70,961.76	53,570	70,962
1959	66,567.05	49,802	66,567
1960	18,051.23	13,380	18,051
1961	59,068.34	43,365	59,068
1962	8,822.50	6,415	8,822
1963	32,904.19	23,681	32,904
1964	32,727.90	23,307	32,728

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1965	33,835.68	23,841	33,836			
1966	32,379.29	22,566	32,379			
1967	19,353.88	13,336	19,354			
1968	17,618.15	11,997	17,618			
1969	15,923.55	10,713	15,924			
1970	20,087.45	13,347	20,087			
1971	22,762.64	14,936	22,763			
1972	31,249.58	20,235	31,250			
1973	39,471.22	25,213	39,471			
1974	48,655.16	30,653	48,655			
1975	65,988.99	40,974	65,989			
1976	22,805.22	13,953	22,805			
1977	9,372.82	5,648	9,373			
1978	12,476.56	7,401	12,477			
1979	57,087.53	33,321	57,088			
1980	43,782.48	25,131	43,782			
1981	100,766.98	56,864	100,767			
1982	22,837.93	12,663	22,838			
1983	162,484.40	102,674	162,484			
1984	46,912.07	29,179	46,912			
1985	40,818.36	24,981	40,818			
1986	28,785.80	17,323	28,786			
1987	25,169.20	14,883	25,169			
1988	34,653.25	20,120	34,653			
1989	57,416.92	32,716	57,417			
1990	30,601.21	17,100	30,601			
1991	28,895.25	15,820	28,895			
1992	11,688.96	6,265	11,689			
1993	36,859.51	19,329	36,860			
1994	31,498.30	16,146	31,498			
1995	60,512.25	30,286	60,512			
1996	10,483.22	5,118	10,483			
1997	20,116.68	9,572	20,117			
1998	37,506.45	17,373	37,506			
1999	31,682.36	14,267	31,682			
2000	40,140.48	17,549	40,140			
2002	2,191.91	905	2,192			
2003	1,914.44	765	1,914			
2004	41,795.17	16,108	41,795			
2005	58,874.84	21,854	58,875			
2006	157,493.42	56,209	157,493			
2007	5,151.26	1,774	5,151			
2008	251,799.72	82,993	251,800			
2009	1,879.45	591	1,879			
2010	42,486.98	12,789	41,565	922	40.09	23
2011	47,807.46	13,644	44,344	3,463	41.23	84
2012	50,398.33	13,668	44,422	5,976	41.79	143
2013	149,643.14	38,189	124,116	25,527	42.33	603
2014	20,046.68	4,817	15,656	4,391	42.63	103
2015	390,780.15	87,457	284,240	106,540	43.36	2,457
2017	5,784.56	1,112	3,614	2,171	44.31	49
2018	131,437.78	23,107	75,099	56,339	44.54	1,265
2019	12,119.78	1,927	6,263	5,857	45.05	130
2023	121,761.46	10,849	35,260	86,501	46.01	1,880
2024	24,022.53	1,698	5,519	18,504	46.03	402

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

2026	1,214,292.81	39,343	127,867	1,086,426	44.80	24,251
2027	2,458,446.03	29,010	94,284	2,364,162	42.05	56,223
	7,330,358.73	1,866,592	3,563,575	3,766,784		87,613

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 43.00 1.20

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1905	18.93	19	19			
1906	10.01	10	10			
1907	41.85	42	42			
1909	16.66	17	17			
1910	5.15	5	5			
1911	36.07	35	36			
1912	10.16	10	10			
1913	33.39	33	33			
1914	13.64	13	14			
1915	7.21	7	7			
1917	11.97	11	12			
1922	15.26	14	15			
1925	2.50	2	2			
1927	26.62	24	27			
1928	617.16	562	617			
1929	5.35	5	5			
1930	19.62	18	20			
1933	1.25	1	1			
1938	156.55	135	157			
1939	541.21	466	541			
1940	225.24	193	225			
1941	132.11	112	132			
1942	1,264.96	1,070	1,265			
1943	140.00	118	140			
1947	28.90	24	29			
1948	119.32	97	119			
1949	954.21	773	954			
1950	318.52	256	319			
1951	1,225.25	978	1,225			
1952	1,723.65	1,366	1,724			
1953	1,838.37	1,446	1,838			
1954	1,808.65	1,412	1,809			
1955	4,119.06	3,189	4,119			
1956	2,972.20	2,283	2,972			
1957	599.42	456	599			
1958	2,092.84	1,580	2,093			
1959	1,105.18	827	1,105			
1960	1,903.13	1,411	1,903			
1961	655.47	481	655			
1962	3,127.73	2,274	3,128			
1963	2,267.09	1,632	2,267			
1964	1,006.92	717	1,007			
1965	4,910.23	3,460	4,861	49	16.33	3
1966	1,977.05	1,378	1,936	41	20.50	2
1967	4,007.26	2,761	3,879	128	21.33	6
1968	2,402.78	1,636	2,298	105	21.00	5
1969	2,104.83	1,416	1,989	116	23.20	5
1970	7,723.63	5,132	7,209	515	21.46	24
1971	3,384.07	2,220	3,119	265	22.08	12
1972	5,978.05	3,871	5,438	540	22.50	24
1973	4,798.08	3,065	4,306	492	23.43	21
1974	1,207.86	761	1,069	139	23.17	6
1976	8,495.73	5,198	7,302	1,194	25.40	47
1977	2,075.92	1,251	1,757	319	26.58	12

SURVIVOR CURVE: IOWA 65-R2
NET SALVAGE PERCENT: 0

1978	1,584.85	940	1,320	265	26.50	10
1979	3,055.69	1,784	2,506	550	27.50	20
1980	15,755.65	9,044	12,705	3,051	27.74	110
1981	1,735.37	979	1,375	360	27.69	13
1982	7,477.67	4,146	5,824	1,654	29.02	57
1983	9,556.02	6,038	8,482	1,074	26.20	41
1984	10,545.06	6,559	9,214	1,331	26.62	50
1985	7,845.56	4,801	6,744	1,102	26.88	41
1986	13,834.09	8,325	11,695	2,139	27.42	78
1987	16,371.96	9,681	13,600	2,772	28.00	99
1988	24,793.91	14,395	20,222	4,572	28.58	160
1989	20,057.78	11,429	16,055	4,003	29.01	138
1990	10,248.72	5,727	8,045	2,204	29.78	74
1991	24,384.92	13,351	18,755	5,630	30.11	187
1992	32,716.16	17,536	24,634	8,082	30.73	263
1993	43,540.71	22,833	32,075	11,466	31.33	366
1994	13,356.35	6,846	9,617	3,739	31.96	117
1995	25,503.16	12,764	17,930	7,573	32.50	233
1996	17,361.84	8,476	11,907	5,455	33.06	165
1997	12,560.71	5,976	8,395	4,166	33.60	124
1998	19,747.96	9,147	12,849	6,899	34.15	202
1999	38,323.29	17,257	24,242	14,081	34.77	405
2000	17,222.31	7,530	10,578	6,644	35.34	188
2001	25,491.47	10,875	15,277	10,214	35.59	287
2002	30,061.47	12,418	17,444	12,617	36.26	348
2003	43,162.95	17,239	24,217	18,946	36.86	514
2004	46,337.65	17,859	25,088	21,250	37.48	567
2005	49,805.93	18,488	25,971	23,835	38.14	625
2006	39,229.62	14,001	19,668	19,562	38.74	505
2007	26,168.97	9,013	12,661	13,508	39.04	346
2008	38,476.67	12,682	17,815	20,662	39.66	521
2009	31,291.92	9,841	13,824	17,468	40.34	433
2010	56,436.18	16,987	23,863	32,573	40.61	802
2011	49,784.92	14,209	19,961	29,824	41.31	722
2012	115,135.23	31,225	43,864	71,271	41.65	1,711
2013	67,646.44	17,263	24,251	43,395	42.34	1,025
2014	7,717.64	1,855	2,606	5,112	42.60	120
2015	2,009.53	450	632	1,378	43.06	32
2016	4,884.04	1,017	1,429	3,455	43.73	79
2021	3,388.02	423	594	2,794	45.80	61
	1,104,892.66	467,682	654,314	450,579		12,006

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.50 1.09

PITTSBURGH DIV AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2035
 NET SALVAGE PERCENT: 0

1905	13,481.44	12,882	12,192	1,290	5.71	226
1919	1,926.91	1,819	1,722	205	6.41	32
1922	400.82	376	356	45	6.43	7
1927	750.59	709	671	80	5.71	14
1936	1,676.98	1,565	1,481	196	6.53	30
1943	872.73	811	768	105	6.56	16
1945	569.96	527	499	71	7.10	10
1948	237.87	219	207	31	6.20	5
1949	692.13	636	602	90	6.92	13
1950	1,244,916.21	1,138,476	1,077,472	167,444	7.25	23,096
1951	1,203.94	1,105	1,046	158	6.87	23
1952	3,847.45	3,515	3,327	521	7.14	73
1953	898.12	823	779	119	6.61	18
1958	891.52	812	768	123	6.83	18
1960	1,158.63	1,048	992	167	7.26	23
1961	1,045.63	946	895	150	7.14	21
1962	1,085.17	981	928	157	6.83	23
1963	660.66	597	565	96	6.86	14
1964	174,029.67	156,923	148,514	25,515	6.92	3,687
1965	19,001.79	17,102	16,186	2,816	6.94	406
1966	4,722.91	4,241	4,014	709	7.02	101
1967	3,887.28	3,481	3,294	593	7.06	84
1968	11,176.28	9,975	9,441	1,736	7.17	242
1969	31.95	28	27	5	5.00	1
1970	2,279.85	2,032	1,923	357	7.00	51
1971	21,739.76	19,283	18,250	3,490	7.20	485
1972	12,280.95	10,905	10,321	1,960	7.00	280
1973	11,646.34	10,283	9,732	1,914	7.22	265
1974	1,371.05	1,210	1,145	226	7.06	32
1975	6,993.01	6,131	5,802	1,191	7.40	161
1976	2,273.20	1,990	1,883	390	7.36	53
1977	5,746.85	5,020	4,751	996	7.32	136
1979	12,619.29	10,956	10,369	2,250	7.35	306
1981	3,057.38	2,644	2,502	555	7.30	76
1982	71,564.28	61,867	58,552	13,012	7.13	1,825
1983	35,103.99	30,147	28,532	6,572	7.32	898
1984	13,103.50	11,230	10,628	2,475	7.26	341
1985	60,178.50	51,404	48,650	11,529	7.25	1,590
1986	231,569.14	197,019	186,462	45,107	7.28	6,196
1987	43,822.14	37,091	35,104	8,719	7.35	1,186
1988	247,922.43	209,569	198,340	49,583	7.23	6,858
1989	21,016.17	17,639	16,694	4,322	7.38	586
1990	901,807.59	754,092	713,685	188,123	7.35	25,595
1991	7,921.08	6,592	6,239	1,682	7.34	229
1992	10,029.97	8,332	7,886	2,144	7.24	296
1993	27,940.33	23,040	21,805	6,135	7.34	836
1994	48,213.43	39,574	37,453	10,760	7.31	1,472
1995	24,537.74	20,018	18,945	5,592	7.34	762
1996	20,252.76	16,459	15,577	4,676	7.26	644
1997	48,138.54	38,761	36,684	11,454	7.38	1,552
1998	372.78	298	282	91	7.58	12
1999	142.95	114	108	35	7.00	5

PITTSBURGH DIV AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2035
 NET SALVAGE PERCENT: 0

2000	169,420.27	133,706	126,542	42,879	7.34	5,842
2001	1,320,721.95	1,032,540	977,213	343,509	7.40	46,420
2002	185,810.88	144,041	136,323	49,488	7.39	6,697
2003	865,421.13	665,768	630,094	235,327	7.35	32,017
2004	699,652.93	532,716	504,171	195,482	7.36	26,560
2005	85,481.43	64,436	60,983	24,498	7.35	3,333
2006	650,399.85	483,832	457,907	192,493	7.40	26,013
2007	24,300.00	17,885	16,927	7,373	7.35	1,003
2008	162,468.30	117,855	111,540	50,928	7.38	6,901
2009	166,927.04	119,520	113,116	53,811	7.34	7,331
2011	593,421.97	410,292	388,307	205,115	7.37	27,831
2012	270,229.11	183,053	173,244	96,985	7.38	13,142
2013	3,452.91	2,288	2,165	1,288	7.36	175
2014	63,070.43	40,781	38,596	24,475	7.38	3,316
2016	253,903.20	154,754	146,462	107,441	7.37	14,578
2017	192,263.18	112,858	106,811	85,453	7.39	11,563
2018	1,706,003.98	959,457	908,046	797,958	7.39	107,978
2019	783,485.14	419,556	397,075	386,410	7.37	52,430
2020	30,335.80	15,289	14,470	15,866	7.38	2,150
2021	410,715.23	192,461	182,148	228,567	7.37	31,013
	12,020,296.37	8,756,385	8,287,186	3,733,110		507,204

GROVE CITY - LEASED
 FULLY ACCRUED
 NET SALVAGE PERCENT: 0

1982	20,774.82	20,775	20,775
1985	335.13	335	335
1987	6,381.82	6,382	6,382
1989	1,068.50	1,068	1,069
1997	8,903.57	8,904	8,904
	37,463.84	37,464	37,464

NORTHERN DIVISION H.Q. - KISKI
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2037
 NET SALVAGE PERCENT: 0

1977	574,656.36	487,538	460,963	113,693	9.02	12,605
1978	6,521.93	5,520	5,219	1,303	8.99	145
1979	9,349.20	7,890	7,460	1,889	8.95	211
1981	16,129.01	13,500	12,764	3,365	9.07	371
1983	3,996.10	3,308	3,128	868	9.23	94
1984	8,494.75	7,021	6,638	1,856	9.14	203
1985	30,698.24	25,311	23,931	6,767	9.05	748
1986	11,922.75	9,748	9,217	2,706	9.27	292
1987	23,108.71	18,810	17,785	5,324	9.24	576
1988	6,440.97	5,216	4,932	1,509	9.26	163
1990	1,876.08	1,506	1,424	452	9.22	49

NORTHERN DIVISION H.Q. - KISKI
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2037
 NET SALVAGE PERCENT: 0

1991	72.90	58	55	18	9.00	2
1994	22,760.50	17,842	16,869	5,891	9.23	638
1997	156,811.27	120,525	113,955	42,856	9.18	4,668
1998	10,184.58	7,751	7,329	2,856	9.27	308
1999	2,719.86	2,054	1,942	778	9.26	84
2002	37,658.07	27,656	26,149	11,510	9.22	1,248
2008	376,870.14	254,990	241,091	135,779	9.32	14,569
2012	5,896.34	3,683	3,482	2,414	9.32	259
2013	470.34	286	270	200	9.52	21
2017	9,500.00	5,037	4,762	4,738	9.31	509
2019	51,848.55	24,768	23,418	28,431	9.29	3,060
2020	35,849.00	16,025	15,152	20,697	9.28	2,230
2021	911,733.42	375,725	355,245	556,488	9.27	60,031
2022	1,825.65	680	643	1,183	9.24	128
	2,317,394.72	1,442,448	1,363,823	953,572		103,212

BUTLER METER SHOP
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2021
 NET SALVAGE PERCENT: 0

1966	62,627.19	62,627	62,627
1969	216.05	216	216
1972	1,191.68	1,192	1,192
	64,034.92	64,035	64,035

CENT DIV AND GREENSBURG CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2028
 NET SALVAGE PERCENT: 0

1949	2,371.56	2,364	2,238	133	1.00	133
1959	2,096.59	2,082	1,971	125	1.00	125
1963	430,677.99	427,792	405,040	25,638	1.00	25,638
1964	1,539.18	1,525	1,444	95	1.00	95
1965	654.36	650	615	39	1.00	39
1966	976.50	967	916	61	1.00	61
1967	4,121.30	4,089	3,872	250	1.00	250
1968	646.90	643	609	38	1.00	38
1969	6,657.08	6,581	6,231	426	1.00	426
1971	10,820.37	10,699	10,130	690	1.00	690
1972	22,566.15	22,417	21,225	1,341	1.00	1,341
1973	3,706.54	3,677	3,481	225	1.00	225
1974	3,438.45	3,403	3,222	216	1.00	216
1976	919.57	909	861	59	1.00	59
1977	1,221.18	1,209	1,145	76	1.00	76
1978	1,597.60	1,582	1,498	100	1.00	100
1979	4,791.81	4,741	4,489	303	1.00	303
1980	718.19	710	672	46	1.00	46

CENT DIV AND GREENSBURG CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2028
 NET SALVAGE PERCENT: 0

1981	1,879.91	1,862	1,763	117	1.00	117
1982	8,262.92	8,159	7,725	538	1.00	538
1983	60,171.49	59,443	56,282	3,890	1.00	3,890
1984	17,367.27	17,148	16,236	1,131	1.00	1,131
1985	90,145.44	89,262	84,515	5,631	1.00	5,631
1986	12,562.64	12,408	11,748	815	1.00	815
1987	8,936.72	8,831	8,361	575	1.00	575
1988	55,686.25	54,990	52,065	3,621	1.00	3,621
1989	29,469.36	29,045	27,500	1,969	1.00	1,969
1990	18,494.98	18,240	17,270	1,225	1.00	1,225
1991	119,393.26	117,662	111,404	7,989	1.00	7,989
1992	14,894.58	14,699	13,917	977	1.00	977
1993	21,385.70	21,101	19,979	1,407	1.00	1,407
1994	187,968.34	185,130	175,284	12,685	1.00	12,685
1995	33,563.46	33,053	31,295	2,268	1.00	2,268
1996	54,289.39	53,529	50,682	3,607	1.00	3,607
1997	39,321.00	38,739	36,679	2,642	1.00	2,642
1998	67,068.81	65,888	62,384	4,685	1.00	4,685
2002	8,304.30	8,153	7,719	585	1.00	585
2003	306,305.28	300,179	284,214	22,091	1.00	22,091
2005	144,369.95	141,309	133,793	10,576	1.00	10,576
2007	40,891.92	39,902	37,780	3,112	1.00	3,112
2014	37,660.00	36,300	34,369	3,291	1.00	3,291
2017	6,775.00	6,466	6,122	653	1.00	653
2018	195,632.54	185,851	175,966	19,666	1.00	19,666
2019	103,134.21	97,400	92,220	10,914	1.00	10,914
2020	275,385.01	258,173	244,442	30,943	1.00	30,943
2021	13,538.27	12,574	11,905	1,633	1.00	1,633
	2,472,379.32	2,411,536	2,283,278	189,101		189,097

JOHNSTOWN DIVISION AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1943	90,391.82	87,074	82,443	7,949	3.22	2,469
1966	318,929.94	302,059	285,994	32,936	3.44	9,574
1967	4,073.03	3,844	3,640	433	3.61	120
1971	2,535.26	2,392	2,265	270	3.38	80
1972	1,702.65	1,606	1,521	182	3.31	55
1975	1,036.16	974	922	114	3.35	34
1976	3,832.16	3,592	3,401	431	3.45	125
1978	1,858.53	1,739	1,647	212	3.42	62
1979	1,896.31	1,775	1,681	216	3.32	65
1980	2,746.10	2,557	2,421	325	3.53	92
1981	3,468.71	3,226	3,054	414	3.51	118
1984	3,697.28	3,426	3,244	453	3.46	131
1985	10,295.41	9,539	9,032	1,264	3.37	375
1986	8,387.42	7,727	7,316	1,071	3.55	302
1987	57,873.01	53,208	50,378	7,495	3.55	2,111
1988	102,396.21	94,245	89,233	13,164	3.42	3,849

JOHNSTOWN DIVISION AND CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1989	36,434.20	33,385	31,609	4,825	3.52	1,371
1991	55,157.82	50,332	47,655	7,503	3.50	2,144
1993	25,660.31	23,284	22,046	3,615	3.52	1,027
1994	27,238.69	24,727	23,412	3,827	3.40	1,126
1995	17,435.00	15,753	14,915	2,520	3.47	726
1996	28,120.70	25,334	23,987	4,134	3.47	1,191
1998	46,811.17	41,840	39,615	7,196	3.50	2,056
1999	7,653.98	6,827	6,464	1,190	3.45	345
2000	21,489.18	19,087	18,072	3,417	3.46	988
2002	47,688.32	41,956	39,725	7,964	3.48	2,289
2005	6,950.00	6,020	5,700	1,250	3.48	359
2006	2,379.47	2,046	1,937	442	3.51	126
2007	26,430.44	22,593	21,391	5,039	3.48	1,448
2009	71,375.94	60,084	56,888	14,487	3.48	4,163
2012	5,250.00	4,288	4,060	1,190	3.48	342
2016	15,748.38	12,098	11,455	4,294	3.47	1,237
2018	93,180.06	68,245	64,615	28,565	3.47	8,232
2019	248,846.45	176,631	167,237	81,610	3.48	23,451
2020	9,604.01	6,561	6,212	3,392	3.48	975
2021	74,483.58	48,511	45,931	28,553	3.48	8,205
2022	1,740.67	1,067	1,010	730	3.48	210
	1,484,798.37	1,269,652	1,202,126	282,672		81,573

ALTOONA DIVISION, CITY PLANT H.Q. AND WAREHOUSE
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2032
 NET SALVAGE PERCENT: 0

1924	435.52	419	397	39	3.90	10
1945	492.69	467	442	51	4.64	11
1948	2,888.20	2,732	2,587	302	4.51	67
1950	23,605.50	22,319	21,132	2,474	4.47	553
1951	6,091.93	5,779	5,472	620	4.16	149
1952	142,376.31	134,375	127,228	15,148	4.50	3,366
1953	23,136.05	21,891	20,727	2,409	4.24	568
1958	813.70	763	722	91	4.55	20
1961	2,324.78	2,180	2,064	261	4.42	59
1963	2,863.86	2,678	2,536	328	4.49	73
1966	8,158.89	7,627	7,221	938	4.28	219
1968	993.92	929	880	114	4.22	27
1969	523.45	487	461	62	4.43	14
1970	0.70	1	1			
1971	3,328.14	3,084	2,920	408	4.48	91
1972	2,445.48	2,266	2,145	300	4.41	68
1973	6,456.26	5,982	5,664	792	4.33	183
1976	2,945.98	2,716	2,572	374	4.35	86
1977	1,500.00	1,379	1,306	194	4.41	44
1978	12,059.78	11,044	10,457	1,603	4.55	352
1979	8,643.52	7,923	7,502	1,142	4.41	259
1981	14,781.49	13,472	12,755	2,026	4.52	448
1982	9,671.00	8,801	8,333	1,338	4.51	297

ALTOONA DIVISION, CITY PLANT H.Q. AND WAREHOUSE
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2032
 NET SALVAGE PERCENT: 0

1983	4,480.47	4,067	3,851	630	4.53	139
1984	27,253.46	24,779	23,461	3,792	4.34	874
1985	1,263.73	1,144	1,083	181	4.41	41
1986	3,203.40	2,898	2,744	460	4.38	105
1989	782,976.60	702,330	664,977	118,000	4.42	26,697
1990	32,673.28	29,161	27,610	5,063	4.52	1,120
1994	11,371.45	10,057	9,522	1,849	4.38	422
1995	368,068.25	324,195	306,953	61,116	4.40	13,890
1997	13,247.67	11,556	10,941	2,306	4.47	516
1998	44,954.56	39,119	37,038	7,916	4.40	1,799
2000	1,442.94	1,242	1,176	267	4.45	60
2002	15,461.18	13,168	12,468	2,994	4.44	674
2003	12,062.57	10,195	9,653	2,410	4.49	537
2004	3,675.14	3,092	2,928	748	4.43	169
2005	6,950.00	5,802	5,493	1,457	4.46	327
2008	147,095.70	119,618	113,256	33,840	4.48	7,554
2009	116,934.87	94,320	89,304	27,631	4.44	6,223
2012	39,427.15	30,619	28,991	10,437	4.46	2,340
2017	124,830.59	87,556	82,899	41,931	4.47	9,381
2019	116,711.39	76,493	72,425	44,287	4.47	9,908
	2,150,621.55	1,850,725	1,752,294	398,328		89,740

WEST DIV OFFICE & GIB CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2030
 NET SALVAGE PERCENT: 0

1960	77,127.48	74,443	70,484	6,644	2.43	2,734
1961	20,070.74	19,352	18,323	1,748	2.47	708
1962	2,612.56	2,515	2,381	231	2.54	91
1970	896.38	861	815	81	2.38	34
1972	1,732.37	1,663	1,575	158	2.29	69
1973	769.29	738	699	71	2.29	31
1974	8,759.09	8,388	7,942	817	2.37	345
1975	1,619.95	1,548	1,466	154	2.44	63
1976	928.15	884	837	91	2.53	36
1977	427.04	408	386	41	2.41	17
1978	2,152.16	2,045	1,936	216	2.57	84
1981	7,269.82	6,896	6,529	741	2.52	294
1982	7,096.99	6,717	6,360	737	2.58	286
1983	8,103.36	7,680	7,272	832	2.45	340
1984	8,548.32	8,106	7,675	873	2.37	368
1985	179.77	170	161	19	2.71	7
1986	4,626.77	4,358	4,126	501	2.56	196
1987	16,040.66	15,136	14,331	1,710	2.42	707
1988	17,114.06	16,089	15,233	1,881	2.52	746
1989	148,533.19	139,532	132,111	16,422	2.48	6,622
1993	6,393.47	5,956	5,639	754	2.54	297
1994	8,076.67	7,522	7,122	955	2.47	387
1995	8,892.56	8,266	7,826	1,066	2.47	432
1997	882.03	815	772	110	2.50	44

WEST DIV OFFICE & GIB CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2030
 NET SALVAGE PERCENT: 0

1998	552,360.93	510,050	482,923	69,438	2.45	28,342
1999	48,150.89	44,328	41,970	6,180	2.46	2,512
2000	12,873.57	11,824	11,195	1,678	2.44	688
2002	35,288.07	32,126	30,417	4,871	2.51	1,941
2003	39,898.68	36,268	34,339	5,560	2.45	2,269
2004	26,632.62	24,097	22,815	3,817	2.47	1,545
2007	9,939.28	8,864	8,393	1,547	2.49	621
2008	92,178.51	81,781	77,432	14,747	2.48	5,946
2009	66,266.41	58,354	55,250	11,016	2.51	4,389
2013	88,745.83	75,789	71,758	16,988	2.48	6,850
2014	46,877.95	39,556	37,452	9,426	2.50	3,770
2017	32,750.00	26,478	25,070	7,680	2.49	3,084
2018	88,282.65	69,946	66,226	22,057	2.49	8,858
2019	103,148.79	79,786	75,543	27,606	2.49	11,087
2020	17,716.37	13,301	12,594	5,123	2.49	2,057
	1,619,963.43	1,452,636	1,375,378	244,585		98,897

HOPEWELL CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

1961	239,859.67	228,107	215,975	23,884	3.43	6,963
1962	7,213.52	6,851	6,487	727	3.46	210
1963	1,692.49	1,605	1,520	173	3.53	49
1965	1,097.03	1,042	987	110	3.33	33
1968	723.51	684	648	76	3.45	22
1969	984.98	928	879	106	3.66	29
1971	581.69	549	520	62	3.44	18
1974	9,535.06	8,978	8,501	1,035	3.32	312
1975	9,920.85	9,324	8,828	1,093	3.36	325
1976	1,063.87	997	944	120	3.43	35
1978	939.29	879	832	107	3.45	31
1979	10,738.67	10,051	9,516	1,222	3.32	368
1980	13,487.17	12,557	11,889	1,598	3.52	454
1981	1,293.50	1,203	1,139	154	3.50	44
1982	1,138.72	1,057	1,001	138	3.54	39
1984	12,521.03	11,602	10,985	1,536	3.45	445
1985	21,310.45	19,744	18,694	2,617	3.37	777
1986	11,112.74	10,238	9,693	1,419	3.55	400
1987	8,570.94	7,880	7,461	1,110	3.55	313
1988	74,173.84	68,270	64,639	9,535	3.42	2,788
1989	378.88	347	329	50	3.57	14
1990	39,513.21	36,155	34,232	5,281	3.48	1,518
1991	17,717.03	16,167	15,307	2,410	3.50	689
1992	13,808.43	12,599	11,929	1,880	3.41	551
1993	10,248.35	9,299	8,804	1,444	3.52	410
1994	10,675.48	9,691	9,176	1,500	3.40	441
1995	11,376.20	10,278	9,731	1,645	3.47	474
1998	70,618.91	63,119	59,762	10,857	3.50	3,102
2000	46,479.64	41,283	39,087	7,392	3.46	2,136

HOPEWELL CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2031
 NET SALVAGE PERCENT: 0

2001	36,503.82	32,310	30,592	5,912	3.44	1,719
2002	13,837.16	12,174	11,527	2,311	3.48	664
2003	34,041.04	29,857	28,269	5,772	3.43	1,683
2005	54,154.92	46,909	44,414	9,741	3.48	2,799
2006	190,619.30	163,933	155,214	35,405	3.50	10,116
2007	24,500.00	20,943	19,829	4,671	3.48	1,342
2008	11,530.52	9,780	9,260	2,271	3.49	651
2009	14,840.00	12,492	11,828	3,012	3.48	866
2014	12,466.11	9,913	9,386	3,080	3.48	885
2018	219,474.84	160,743	152,194	67,281	3.47	19,389
2019	15,269.00	10,838	10,262	5,007	3.48	1,439
2020	98,227.80	67,109	63,540	34,688	3.48	9,968
2021	68,867.56	44,853	42,468	26,400	3.48	7,586
	1,443,107.22	1,223,338	1,158,275	284,832		82,097

SOUTHERN DIV AND MON CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2027
 NET SALVAGE PERCENT: 0

1947	57,166.96	57,167	57,167
1948	27,660.35	27,660	27,660
1949	1,266.73	1,267	1,267
1953	1,917.47	1,917	1,917
1954	2,355.29	2,355	2,355
1959	65,507.73	65,508	65,508
1960	1,184.13	1,184	1,184
1961	5,571.32	5,571	5,571
1962	3,383.71	3,384	3,384
1964	476.07	476	476
1966	1,683.43	1,683	1,683
1969	1,559.80	1,560	1,560
1971	11,780.11	11,780	11,780
1972	6,154.32	6,154	6,154
1973	2,390.11	2,390	2,390
1975	1,247.81	1,248	1,248
1978	2,389.28	2,389	2,389
1979	8,709.67	8,710	8,710
1981	1,869.15	1,869	1,869
1982	11,780.12	11,780	11,780
1983	19,931.83	19,932	19,932
1984	15,807.70	15,808	15,808
1985	109,553.81	109,554	109,554
1986	56,131.64	56,132	56,132
1987	82,066.79	82,067	82,067
1988	21,602.55	21,603	21,603
1989	14,727.43	14,727	14,727
1990	3,194.14	3,194	3,194
1992	43,057.95	43,058	43,058
1993	3,763.95	3,764	3,764
1994	5,127.23	5,127	5,127

SOUTHERN DIV AND MON CITY PLANT H.Q.
 INTERIM SURVIVOR CURVE: IOWA 80-R1.5
 PROBABLE RETIREMENT DATE: 6-2027
 NET SALVAGE PERCENT: 0

1996	9,452.47	9,452	9,452		
1997	1,576.21	1,576	1,576		
1998	64,019.11	64,019	64,019		
2000	13,091.82	13,092	13,092		
2001	7,576.38	7,576	7,576		
2002	357,642.37	357,642	357,642		
2008	19,439.50	19,440	19,440		
2009	28,742.44	28,742	28,742		
2019	50,213.87	50,214	50,214		
2020	1.00	1	1		
2021	61,020.93	61,021	(3,005)	64,026	
	1,203,794.68	1,203,793	1,139,769	64,026	
	24,813,854.42	19,712,012	18,663,628	6,150,226	1,151,820

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.30 4.64

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1886	287.18	283	287			
1889	26.21	25	26			
1890	7.21	7	7			
1892	5.12	5	5			
1894	298.27	283	298			
1895	6.34	6	6			
1896	5,812.62	5,461	5,813			
1897	94.37	88	94			
1898	169.15	158	169			
1899	1,485.83	1,380	1,486			
1900	417,366.96	386,123	417,367			
1901	23,490.79	21,657	23,491			
1902	47,493.63	43,641	47,494			
1903	44,964.00	41,173	44,964			
1904	43,647.88	39,835	43,648			
1905	48,249.28	43,880	48,249			
1906	33,881.96	30,706	33,882			
1907	41,579.30	37,549	41,579			
1908	33,401.16	30,052	33,401			
1909	20,940.97	18,774	20,941			
1910	10,102.07	9,022	10,102			
1911	30,614.58	27,234	30,615			
1912	23,686.15	20,989	23,686			
1913	124,268.81	109,667	124,269			
1914	125,743.12	110,514	125,743			
1915	29,057.61	25,434	29,058			
1916	48,910.39	42,627	48,795	115	9.58	12
1917	34,062.40	29,559	33,836	226	9.42	24
1918	41,907.74	36,204	41,442	466	9.71	48
1919	30,837.72	26,520	30,357	481	10.02	48
1920	905.12	775	887	18	9.00	2
1921	36,719.51	31,293	35,821	899	10.70	84
1922	39,738.45	33,706	38,583	1,155	10.90	106
1923	58,681.24	49,537	56,704	1,977	11.23	176
1924	98,587.74	82,828	94,812	3,776	11.51	328
1925	187,256.96	156,541	179,191	8,066	11.81	683
1926	138,748.15	115,412	132,111	6,637	12.11	548
1927	128,071.69	105,997	121,333	6,739	12.41	543
1928	151,827.05	125,004	143,091	8,736	12.72	687
1929	122,451.02	100,291	114,802	7,649	13.03	587
1930	108,713.40	88,571	101,386	7,327	13.35	549
1931	115,821.09	93,848	107,427	8,394	13.67	614
1932	92,703.58	74,703	85,512	7,192	13.99	514
1933	34,721.26	27,825	31,851	2,870	14.28	201
1934	23,534.20	18,752	21,465	2,069	14.67	141
1935	42,523.53	33,682	38,555	3,969	14.98	265
1936	53,301.90	41,968	48,040	5,262	15.30	344
1937	179,602.28	140,564	160,902	18,700	15.65	1,195
1938	117,910.83	91,709	104,978	12,933	16.01	808
1939	196,087.55	151,560	173,489	22,599	16.35	1,382
1940	274,916.85	211,114	241,660	33,257	16.71	1,990
1941	208,630.00	159,139	182,164	26,466	17.07	1,550
1942	120,296.44	91,141	104,328	15,968	17.45	915
1943	38,768.44	29,168	33,388	5,380	17.81	302

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1944	72,992.85	54,521	62,410	10,583	18.22	581
1945	52,435.85	38,883	44,509	7,927	18.61	426
1946	207,616.54	152,800	174,908	32,709	19.01	1,721
1947	186,761.68	136,414	156,151	30,611	19.41	1,577
1948	99,498.47	72,095	82,526	16,972	19.83	856
1949	510,769.24	367,115	420,232	90,537	20.25	4,471
1950	703,142.12	501,284	573,814	129,328	20.67	6,257
1951	780,128.90	551,403	631,184	148,945	21.11	7,056
1952	1,234,735.74	865,167	990,346	244,390	21.55	11,341
1953	1,307,766.25	908,348	1,039,775	267,991	21.99	12,187
1954	756,987.78	520,951	596,326	160,662	22.45	7,156
1955	1,046,628.06	713,601	816,850	229,778	22.91	10,030
1956	1,458,923.48	985,182	1,127,726	331,197	23.38	14,166
1957	1,097,683.63	733,922	840,112	257,572	23.86	10,795
1958	1,380,665.20	913,918	1,046,151	334,514	24.34	13,743
1959	1,156,571.52	757,716	867,348	289,224	24.83	11,648
1960	1,108,115.64	718,269	822,194	285,922	25.33	11,288
1961	1,379,859.66	884,642	1,012,639	367,221	25.84	14,211
1962	1,376,222.05	872,566	998,816	377,406	26.35	14,323
1963	1,616,126.15	1,013,004	1,159,573	456,553	26.87	16,991
1964	1,686,561.90	1,044,724	1,195,883	490,679	27.40	17,908
1965	1,898,192.88	1,161,846	1,329,951	568,242	27.93	20,345
1966	2,199,020.64	1,329,176	1,521,492	677,529	28.48	23,790
1967	2,275,260.55	1,358,194	1,554,708	720,553	29.02	24,830
1968	2,651,785.09	1,562,352	1,788,406	863,379	29.58	29,188
1969	2,348,374.60	1,365,322	1,562,868	785,507	30.14	26,062
1970	2,341,552.01	1,342,810	1,537,098	804,454	30.71	26,195
1971	3,154,963.28	1,783,879	2,041,985	1,112,978	31.29	35,570
1972	3,539,531.14	1,972,793	2,258,232	1,281,299	31.87	40,204
1973	4,199,237.87	2,306,095	2,639,759	1,559,479	32.46	48,043
1974	4,175,684.43	2,258,335	2,585,089	1,590,595	33.06	48,112
1975	2,350,099.70	1,251,428	1,432,495	917,605	33.66	27,261
1976	2,166,434.26	1,135,277	1,299,538	866,896	34.27	25,296
1977	4,411,166.72	2,274,221	2,603,273	1,807,894	34.88	51,832
1978	3,764,789.20	1,908,522	2,184,662	1,580,127	35.50	44,511
1979	4,487,165.07	2,235,461	2,558,905	1,928,260	36.13	53,370
1980	5,357,857.71	2,622,350	3,001,772	2,356,086	36.76	64,094
1981	6,371,965.85	3,062,112	3,505,163	2,866,803	37.40	76,652
1982	5,594,846.09	2,638,138	3,019,845	2,575,001	38.05	67,674
1983	4,352,083.14	2,498,096	2,859,540	1,492,543	33.02	45,201
1984	6,191,112.32	3,501,074	4,007,637	2,183,475	33.42	65,334
1985	6,684,886.29	3,722,145	4,260,695	2,424,191	33.83	71,658
1986	6,257,636.01	3,427,933	3,923,914	2,333,722	34.26	68,118
1987	8,743,460.26	4,709,228	5,390,597	3,352,863	34.69	96,652
1988	5,689,407.80	2,989,215	3,421,718	2,267,690	35.68	63,556
1989	7,299,069.08	3,765,590	4,310,426	2,988,643	36.13	82,719
1990	7,934,139.44	4,016,261	4,597,366	3,336,773	36.58	91,219
1991	7,592,613.41	3,768,973	4,314,298	3,278,315	37.03	88,531
1992	10,825,890.03	5,265,713	6,027,598	4,798,292	37.49	127,989
1993	9,571,081.64	4,556,792	5,216,105	4,354,977	37.96	114,725
1994	10,401,442.13	4,842,911	5,543,622	4,857,820	38.45	126,341
1995	9,204,133.23	4,187,881	4,793,817	4,410,316	38.93	113,288
1996	7,436,132.70	3,303,130	3,781,053	3,655,080	39.42	92,721
1997	7,739,359.98	3,351,917	3,836,899	3,902,461	39.92	97,757
1998	5,549,658.30	2,340,846	2,679,538	2,870,120	40.43	70,990

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1999	7,721,338.24	3,168,837	3,627,330	4,094,008	40.94	100,000
2000	7,345,004.29	2,949,019	3,375,707	3,969,297	40.99	96,836
2001	7,727,150.23	3,010,498	3,446,081	4,281,069	41.52	103,109
2002	10,952,562.83	4,133,497	4,731,564	6,220,999	42.07	147,873
2003	12,826,055.04	4,681,510	5,358,868	7,467,187	42.62	175,204
2004	14,982,150.20	5,281,208	6,045,335	8,936,815	43.17	207,014
2005	18,729,572.53	6,405,514	7,332,315	11,397,258	43.29	263,277
2006	15,308,933.45	5,036,639	5,765,380	9,543,553	43.86	217,591
2007	11,753,690.82	3,735,323	4,275,779	7,477,912	44.01	169,914
2008	11,782,677.98	3,584,291	4,102,895	7,679,783	44.60	172,192
2009	13,323,090.85	3,894,339	4,457,803	8,865,288	44.79	197,930
2010	12,681,840.75	3,528,088	4,038,560	8,643,281	45.40	190,381
2011	18,635,883.54	4,949,691	5,665,852	12,970,032	45.61	284,368
2012	47,707,782.40	12,050,986	13,794,619	33,913,163	45.85	739,655
2013	26,002,231.35	6,219,734	7,119,655	18,882,576	46.11	409,512
2014	30,236,769.01	6,776,060	7,756,474	22,480,295	46.74	480,965
2015	35,411,177.23	7,478,841	8,560,939	26,850,238	46.67	575,321
2016	34,120,323.23	6,708,056	7,678,631	26,441,692	46.98	562,829
2017	55,312,176.58	10,044,691	11,498,037	43,814,140	47.31	926,107
2018	79,270,762.36	13,254,071	15,171,775	64,098,987	47.32	1,354,586
2019	65,854,083.00	10,022,991	11,473,197	54,380,886	47.36	1,148,245
2020	72,917,444.73	9,953,231	11,393,344	61,524,101	47.45	1,296,609
2021	136,589,399.47	16,513,658	18,902,986	117,686,413	47.26	2,490,191
2022	159,022,691.34	16,617,871	19,022,277	140,000,414	47.13	2,970,516
2023	215,794,136.61	18,946,725	21,688,088	194,106,049	46.78	4,149,338
2024	262,017,375.29	18,524,628	21,204,918	240,812,457	46.00	5,235,053
2025	226,467,876.10	11,889,563	13,609,840	212,858,036	45.12	4,717,598
2026	252,718,894.77	8,440,811	9,662,095	243,056,800	43.35	5,606,847
2027	291,699,088.36	3,733,748	4,273,976	287,425,112	38.56	7,453,971
	2,362,725,305.24	341,350,644	390,697,447	1,972,027,858		44,796,238

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 44.00 1.90

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1875	237.23	237	237			
1876	21.64	22	22			
1885	1,431.46	1,416	1,254	177	1.00	177
1888	7,570.90	7,390	6,545	1,026	1.72	597
1889	15,830.05	15,377	13,618	2,212	2.06	1,074
1890	38.54	37	33	6	3.00	2
1891	26,658.54	25,648	22,714	3,945	2.73	1,445
1893	36.75	35	31	6	3.00	2
1894	799.33	758	671	128	3.76	34
1896	6,699.55	6,294	5,574	1,126	4.36	258
1897	1,451.27	1,358	1,203	248	4.68	53
1898	89.88	84	74	16	5.33	3
1899	7,960.68	7,391	6,546	1,415	5.15	275
1900	181,514.24	167,926	148,719	32,795	5.39	6,084
1901	14,382.92	13,260	11,743	2,640	5.62	470
1902	44,776.66	41,145	36,439	8,338	5.84	1,428
1903	31,690.00	29,018	25,699	5,991	6.07	987
1904	15,844.02	14,460	12,806	3,038	6.29	483
1905	13,976.68	12,711	11,257	2,720	6.52	417
1906	19,723.07	17,874	15,830	3,893	6.75	577
1907	3,521.72	3,180	2,816	706	6.99	101
1908	47,887.63	43,085	38,157	9,731	7.22	1,348
1909	11,600.75	10,400	9,210	2,391	7.45	321
1910	7,615.37	6,801	6,023	1,592	7.69	207
1911	13,592.12	12,091	10,708	2,884	7.94	363
1912	6,060.30	5,370	4,756	1,304	8.20	159
1913	7,749.32	6,839	6,057	1,692	8.46	200
1914	8,739.31	7,681	6,802	1,937	8.73	222
1915	17,576.76	15,385	13,625	3,952	8.98	440
1916	8,120.35	7,077	6,268	1,852	9.26	200
1917	11,920.19	10,344	9,161	2,759	9.51	290
1918	9,104.37	7,865	6,965	2,139	9.81	218
1919	4,161.94	3,579	3,170	992	10.12	98
1920	2,170.44	1,858	1,645	525	10.29	51
1921	29,322.34	24,989	22,131	7,191	10.64	676
1922	9,770.15	8,287	7,339	2,431	10.95	222
1923	26,854.62	22,670	20,077	6,778	11.22	604
1924	22,774.00	19,133	16,945	5,829	11.52	506
1925	20,807.22	17,394	15,405	5,402	11.82	457
1926	14,358.36	11,943	10,577	3,781	12.12	312
1927	49,554.91	41,014	36,323	13,232	12.41	1,066
1928	24,477.05	20,153	17,848	6,629	12.72	521
1929	30,101.90	24,654	21,834	8,268	13.02	635
1930	68,855.82	56,098	49,682	19,174	13.34	1,437
1931	44,887.52	36,371	32,211	12,677	13.66	928
1932	25,600.68	20,630	18,270	7,331	13.99	524
1933	17,894.18	14,340	12,700	5,194	14.31	363
1934	10,012.19	7,978	7,066	2,946	14.66	201
1935	19,529.95	15,469	13,700	5,830	14.99	389
1936	16,656.84	13,115	11,615	5,042	15.33	329
1937	55,200.76	43,202	38,261	16,940	15.66	1,082
1938	57,564.13	44,772	39,651	17,913	15.99	1,120
1939	47,217.71	36,496	32,322	14,896	16.35	911
1940	113,046.26	86,810	76,881	36,165	16.71	2,164

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1941	275,829.19	210,397	186,333	89,496	17.08	5,240
1942	100,865.27	76,420	67,679	33,186	17.45	1,902
1943	39,941.71	30,051	26,614	13,328	17.82	748
1944	70,462.11	52,631	46,611	23,851	18.22	1,309
1945	62,564.50	46,393	41,087	21,478	18.61	1,154
1946	137,594.76	101,266	89,684	47,911	19.01	2,520
1947	148,765.37	108,661	96,233	52,532	19.41	2,706
1948	124,890.14	90,493	80,143	44,747	19.83	2,257
1949	314,703.87	226,193	200,322	114,382	20.25	5,648
1950	306,562.02	218,554	193,557	113,005	20.67	5,467
1951	1,047,648.17	740,488	655,794	391,854	21.11	18,562
1952	703,748.02	493,109	436,709	267,039	21.55	12,392
1953	834,714.74	579,776	513,464	321,251	21.99	14,609
1954	416,924.90	286,924	254,107	162,818	22.45	7,252
1955	1,018,832.39	694,650	615,199	403,633	22.91	17,618
1956	809,788.66	546,834	484,290	325,499	23.38	13,922
1957	1,297,439.93	867,481	768,263	529,177	23.86	22,178
1958	2,143,873.36	1,419,116	1,256,804	887,069	24.34	36,445
1959	3,062,896.03	2,006,626	1,777,117	1,285,779	24.83	51,783
1960	2,272,891.77	1,473,266	1,304,761	968,131	25.33	38,221
1961	3,114,144.67	1,996,509	1,768,157	1,345,988	25.84	52,089
1962	2,491,353.19	1,579,593	1,398,926	1,092,427	26.35	41,458
1963	2,297,086.65	1,439,837	1,275,155	1,021,932	26.87	38,032
1964	2,492,094.74	1,543,703	1,367,141	1,124,954	27.40	41,057
1965	2,940,954.73	1,800,100	1,594,213	1,346,742	27.93	48,218
1966	3,512,089.65	2,122,847	1,880,046	1,632,044	28.48	57,305
1967	3,944,695.45	2,354,747	2,085,422	1,859,273	29.02	64,069
1968	4,408,773.35	2,597,517	2,300,425	2,108,348	29.58	71,276
1969	3,765,683.38	2,189,331	1,938,925	1,826,758	30.14	60,609
1970	2,932,369.18	1,681,626	1,489,289	1,443,080	30.71	46,991
1971	4,484,049.84	2,535,371	2,245,387	2,238,663	31.29	71,546
1972	6,665,400.99	3,715,028	3,290,120	3,375,281	31.87	105,908
1973	7,787,175.31	4,276,483	3,787,359	3,999,816	32.46	123,223
1974	6,202,367.93	3,354,427	2,970,763	3,231,605	33.06	97,750
1975	3,344,621.02	1,781,011	1,577,307	1,767,314	33.66	52,505
1976	2,838,019.17	1,487,207	1,317,107	1,520,912	34.27	44,380
1977	5,029,261.20	2,592,886	2,296,324	2,732,937	34.88	78,353
1978	3,767,904.34	1,910,101	1,691,632	2,076,272	35.50	58,487
1979	7,896,759.24	3,934,086	3,484,123	4,412,636	36.13	122,132
1980	10,099,960.15	4,943,324	4,377,929	5,722,031	36.76	155,659
1981	14,379,536.36	6,910,230	6,119,870	8,259,666	37.40	220,847
1982	9,154,926.05	4,316,822	3,823,084	5,331,842	38.05	140,127
1983	6,827,107.71	3,918,760	3,470,550	3,356,558	38.02	101,652
1984	8,902,931.34	5,034,608	4,458,773	4,444,158	38.42	132,979
1985	17,141,705.08	9,544,501	8,452,845	8,688,860	38.83	256,839
1986	11,733,337.84	6,427,522	5,692,372	6,040,966	38.26	176,327
1987	17,706,063.86	9,536,486	8,445,747	9,260,317	38.69	266,945
1988	12,276,634.52	6,450,144	5,712,406	6,564,229	38.68	183,975
1989	14,355,442.73	7,405,973	6,558,912	7,796,531	38.13	215,791
1990	16,963,223.79	8,586,784	7,604,667	9,358,557	38.58	255,838
1991	15,892,009.00	7,888,793	6,986,509	8,905,500	37.03	240,494
1992	17,660,580.39	8,590,106	7,607,609	10,052,971	37.49	268,151
1993	12,832,415.39	6,109,513	5,410,735	7,421,680	37.96	195,513
1994	13,504,740.76	6,287,807	5,568,637	7,936,104	38.45	206,401
1995	15,408,931.07	7,011,064	6,209,171	9,199,760	38.93	236,315

SURVIVOR CURVE: IOWA 72-R1.5
NET SALVAGE PERCENT: 0

1996	10,823,598.14	4,807,842	4,257,943	6,565,655	39.42	166,556
1997	11,391,071.18	4,933,473	4,369,205	7,021,866	39.92	175,898
1998	10,546,962.03	4,448,709	3,939,886	6,607,076	40.43	163,420
1999	11,184,008.94	4,589,917	4,064,943	7,119,066	40.94	173,890
2000	9,749,165.26	3,914,290	3,466,591	6,282,574	40.99	153,271
2001	18,075,747.36	7,042,311	6,236,844	11,838,903	41.52	285,137
2002	23,298,060.59	8,792,688	7,787,021	15,511,040	42.07	368,696
2003	20,136,504.00	7,349,824	6,509,185	13,627,319	42.62	319,740
2004	22,470,645.50	7,920,903	7,014,946	15,455,700	43.17	358,019
2005	24,895,360.29	8,514,213	7,540,396	17,354,964	43.29	400,900
2006	21,056,628.38	6,927,631	6,135,280	14,921,348	43.86	340,204
2007	20,686,012.33	6,574,015	5,822,109	14,863,903	44.01	337,739
2008	16,733,008.09	5,090,181	4,507,990	12,225,018	44.60	274,104
2009	16,843,450.72	4,923,341	4,360,232	12,483,219	44.79	278,705
2010	18,963,721.89	5,275,707	4,672,296	14,291,426	45.40	314,789
2011	14,524,431.49	3,857,689	3,416,464	11,107,967	45.61	243,542
2012	20,415,569.57	5,156,973	4,567,142	15,848,428	45.85	345,658
2013	20,311,368.09	4,858,479	4,302,789	16,008,579	46.11	347,182
2014	17,679,582.35	3,961,994	3,508,839	14,170,743	46.74	303,182
2015	19,230,102.76	4,061,398	3,596,874	15,633,229	46.67	334,974
2016	33,994,166.58	6,683,253	5,918,853	28,075,314	46.98	597,601
2017	41,233,504.02	7,488,004	6,631,561	34,601,943	47.31	731,388
2018	69,353,282.09	11,595,869	10,269,587	59,083,695	47.32	1,248,599
2019	71,422,320.16	10,870,477	9,627,162	61,795,158	47.36	1,304,796
2020	70,549,975.22	9,630,072	8,528,629	62,021,346	47.45	1,307,088
2021	95,024,446.66	11,488,456	10,174,459	84,849,988	47.26	1,795,387
2022	124,738,201.84	13,035,142	11,544,242	113,193,960	47.13	2,401,739
2023	178,902,771.77	15,707,663	13,911,093	164,991,679	46.78	3,526,970
2024	151,924,584.49	10,741,068	9,512,554	142,412,030	46.00	3,095,914
2025	110,833,309.05	5,818,749	5,153,227	105,680,082	45.12	2,342,200
2026	201,839,522.99	6,741,440	5,970,385	195,869,138	43.35	4,518,319
2027	191,925,912.73	2,456,652	2,175,671	189,750,242	38.56	4,920,909
	2,001,957,324.11	390,452,113	345,794,022	1,656,163,302		38,300,721

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 43.20 1.91

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

1891	38.06	38	38		
1904	262.15	262	262		
1906	26.37	26	26		
1907	148.76	149	149		
1908	57.37	57	57		
1909	82.79	83	83		
1910	20.10	20	20		
1913	98.49	98	98		
1914	21.73	22	22		
1915	91.61	92	92		
1916	22.01	22	22		
1918	130.59	130	131		
1920	45.44	45	45		
1922	0.66	1	1		
1923	30.31	29	30		
1927	9.71	9	10		
1931	105.23	97	105		
1932	16.69	15	17		
1933	147.42	135	147		
1934	97.33	88	97		
1938	6.09	5	6		
1940	35.31	31	35		
1941	1.84	2	2		
1942	43.74	38	43	1	
1944	8.76	8	9		
1946	782.45	667	753	29	7.25
1947	1,696.06	1,438	1,624	72	8.00
1948	2,909.04	2,450	2,768	141	8.81
1949	12,596.91	10,545	11,912	685	9.01
1950	17,720.14	14,737	16,648	1,072	9.24
1951	44,006.93	36,358	41,072	2,935	9.56
1952	72,416.37	59,421	67,125	5,291	9.87
1953	118,059.11	96,208	108,681	9,378	10.18
1954	33,174.34	26,841	30,321	2,853	10.49
1955	90,154.96	72,419	81,808	8,347	10.83
1956	54,764.46	43,662	49,323	5,441	11.15
1957	59,304.43	46,915	52,997	6,307	11.49
1958	164,171.17	128,860	145,566	18,605	11.83
1959	73,150.12	56,964	64,349	8,801	12.17
1960	54,917.41	42,406	47,904	7,013	12.52
1961	77,428.55	59,282	66,968	10,461	12.88
1962	91,616.51	69,529	78,543	13,074	13.26
1963	95,699.11	71,966	81,296	14,403	13.64
1964	54,815.31	40,832	46,126	8,689	14.04
1965	76,991.32	56,806	64,171	12,820	14.42
1966	65,166.09	47,595	53,766	11,400	14.82
1967	96,851.27	70,015	79,092	17,759	15.24
1968	186,485.56	133,388	150,681	35,805	15.66
1969	128,896.33	91,165	102,984	25,912	16.10
1970	113,021.39	79,032	89,278	23,743	16.55
1971	147,644.13	102,035	115,263	32,381	16.99
1972	277,149.25	189,218	213,749	63,400	17.45
1973	224,926.97	151,641	171,301	53,626	17.92
1974	261,535.61	174,039	196,603	64,933	18.40

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

1975	277,154.94	182,016	205,614	71,541	18.88	3,789
1976	514,223.75	333,032	376,208	138,016	19.38	7,122
1977	270,619.51	172,753	195,150	75,470	19.89	3,794
1978	409,317.49	257,424	290,798	118,519	20.41	5,807
1979	412,521.73	255,537	288,667	123,855	20.93	5,918
1980	416,831.64	254,117	287,062	129,770	21.47	6,044
1981	1,471,211.54	882,197	996,571	474,641	22.02	21,555
1982	1,067,653.42	629,531	711,148	356,505	22.57	15,796
1983	867,043.55	594,185	671,219	195,825	20.44	9,580
1984	888,220.59	602,746	680,890	207,331	20.60	10,065
1985	1,185,071.72	790,680	893,189	291,883	21.20	13,768
1986	1,025,600.28	672,486	759,672	265,928	21.79	12,204
1987	1,036,896.07	671,909	759,020	277,876	22.00	12,631
1988	1,023,136.49	650,715	735,078	288,058	22.61	12,740
1989	1,072,783.00	669,095	755,841	316,942	23.23	13,644
1990	1,034,401.78	636,157	718,633	315,769	23.48	13,448
1991	1,590,414.71	957,748	1,081,917	508,498	24.11	21,091
1992	1,206,493.66	715,209	807,933	398,561	24.38	16,348
1993	920,810.76	533,702	602,895	317,916	25.02	12,706
1994	1,162,485.27	662,035	747,866	414,619	25.32	16,375
1995	987,996.16	549,128	620,321	367,675	25.98	14,152
1996	378,695.67	206,389	233,147	145,549	26.30	5,534
1997	942,991.46	500,446	565,327	377,664	26.97	14,003
1998	548,982.93	285,032	321,985	226,998	27.32	8,309
1999	683,281.80	344,647	389,329	293,953	28.00	10,498
2000	815,876.81	401,575	453,638	362,239	28.37	12,768
2001	1,917,461.71	919,615	1,038,840	878,622	28.75	30,561
2002	1,321,822.74	613,458	692,991	628,832	29.45	21,353
2003	1,217,878.82	549,020	620,198	597,681	29.85	20,023
2004	1,053,979.88	460,695	520,422	533,558	30.26	17,632
2005	1,401,462.48	592,819	669,676	731,786	30.69	23,844
2006	3,571,743.91	1,459,057	1,648,219	1,923,525	31.13	61,790
2007	1,424,288.20	560,600	633,280	791,008	31.58	25,048
2008	4,720,934.00	1,785,929	2,017,468	2,703,466	32.05	84,352
2009	3,265,340.77	1,184,013	1,337,516	1,927,825	32.52	59,281
2010	908,164.33	314,679	355,476	552,688	33.01	16,743
2011	2,187,333.62	721,820	815,401	1,371,933	33.50	40,953
2012	833,760.14	262,301	296,307	537,453	33.76	15,920
2013	2,718,811.44	808,031	912,789	1,806,022	34.28	52,684
2014	1,251,039.20	351,292	396,836	854,203	34.58	24,702
2015	2,398,911.55	632,833	714,878	1,684,034	34.89	48,267
2016	1,268,863.39	312,267	352,751	916,112	35.23	26,004
2017	6,328,991.55	1,441,744	1,628,661	4,700,331	35.59	132,069
2018	1,259,991.30	264,598	298,902	961,089	35.75	26,884
2019	1,746,914.29	334,010	377,313	1,369,601	35.95	38,097
2020	2,629,669.64	451,777	510,348	2,119,322	36.17	58,593
2021	7,704,539.85	1,171,861	1,323,789	6,380,751	36.24	176,069
2022	8,037,773.51	1,060,986	1,198,539	6,839,235	36.17	189,086
2023	17,900,698.48	1,990,558	2,248,627	15,652,071	35.98	435,021
2024	10,372,960.74	925,268	1,045,226	9,327,735	35.72	261,135
2025	12,358,532.05	825,550	932,580	11,425,952	34.95	326,923
2026	33,609,834.25	1,431,779	1,617,405	31,992,429	33.71	949,049
2027	36,197,556.39	590,020	666,514	35,531,042	30.17	1,177,694
	194,519,574.82	37,405,007	42,254,289	152,265,286		4,670,074

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 32.60 2.40

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1900	14.93	15	15		
1901	1,619.68	1,620	1,620		
1902	395.38	395	395		
1903	536.83	537	537		
1904	933.47	933	933		
1905	3,969.52	3,970	3,970		
1906	3,782.98	3,783	3,783		
1907	4,088.68	4,089	4,089		
1908	2,952.33	2,952	2,952		
1909	339.91	340	340		
1920	884.90	885	885		
1921	2,074.69	2,075	2,075		
1922	2,032.92	2,033	2,033		
1923	1,552.69	1,553	1,553		
1924	1,417.38	1,417	1,417		
1925	1,543.91	1,544	1,544		
1926	2,912.13	2,903	2,912		
1927	2,453.46	2,435	2,453		
1928	2,938.24	2,901	2,938		
1929	2,642.01	2,597	2,642		
1930	3,468.56	3,393	3,469		
1931	2,279.92	2,219	2,280		
1932	2,210.45	2,141	2,210		
1933	1,723.17	1,661	1,723		
1934	1,380.94	1,324	1,381		
1935	1,657.80	1,581	1,658		
1936	2,855.02	2,709	2,855		
1937	3,010.47	2,841	3,010		
1938	1,577.09	1,480	1,577		
1939	4,403.53	4,109	4,404		
1940	6,216.71	5,769	6,217		
1941	12,753.54	11,768	12,754		
1942	9,382.03	8,608	9,382		
1943	4,269.79	3,895	4,270		
1944	7,087.95	6,428	7,088		
1945	3,799.75	3,426	3,781	19	4.75
1946	15,058.02	13,497	14,897	161	5.75
1947	23,780.12	21,190	23,389	391	6.02
1948	34,582.02	30,627	33,805	777	6.27
1949	35,867.04	31,576	34,852	1,015	6.59
1950	33,599.03	29,396	32,446	1,153	6.86
1951	39,314.67	34,182	37,729	1,586	7.18
1952	42,023.80	36,309	40,076	1,948	7.49
1953	58,225.06	49,989	55,176	3,049	7.78
1954	94,237.90	80,376	88,715	5,523	8.09
1955	117,816.91	99,802	110,157	7,660	8.41
1956	161,641.17	135,984	150,093	11,548	8.73
1957	198,458.99	165,767	182,966	15,493	9.06
1958	252,975.64	209,785	231,551	21,425	9.39
1959	363,445.39	299,148	330,186	33,259	9.73
1960	398,081.77	325,125	358,858	39,224	10.08
1961	567,540.47	459,912	507,630	59,910	10.43
1962	477,757.20	383,945	423,781	53,976	10.80
1963	814,675.86	649,223	716,583	98,093	11.17
					4
					28
					65
					124
					154
					168
					221
					260
					392
					683
					911
					1,323
					1,710
					2,282
					3,418
					3,891
					5,744
					4,998
					8,782

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1964	824,438.42	651,306	718,882	105,556	11.55	9,139
1965	1,004,821.20	786,504	868,107	136,714	11.95	11,441
1966	1,019,562.34	790,620	872,651	146,911	12.35	11,896
1967	796,408.36	611,642	675,103	121,305	12.76	9,507
1968	1,171,172.34	890,513	982,908	188,264	13.18	14,284
1969	1,148,441.65	864,042	953,690	194,752	13.62	14,299
1970	1,434,895.40	1,068,079	1,178,897	255,998	14.06	18,208
1971	1,385,762.43	1,020,171	1,126,018	259,744	14.51	17,901
1972	2,086,621.67	1,518,309	1,675,841	410,781	14.98	27,422
1973	2,604,749.02	1,873,049	2,067,387	537,362	15.45	34,781
1974	2,649,242.03	1,881,439	2,076,647	572,595	15.94	35,922
1975	2,641,939.33	1,852,237	2,044,415	597,524	16.44	36,346
1976	3,514,695.30	2,431,537	2,683,820	830,875	16.95	49,019
1977	3,422,327.56	2,335,259	2,577,553	844,775	17.47	48,356
1978	6,977,935.75	4,695,523	5,182,705	1,795,231	17.99	99,790
1979	6,264,376.62	4,152,718	4,583,582	1,680,795	18.54	90,658
1980	7,027,849.13	4,588,553	5,064,637	1,963,212	19.09	102,840
1981	11,542,142.32	7,418,481	8,188,183	3,353,959	19.65	170,685
1982	9,431,279.04	5,963,964	6,582,753	2,848,526	20.22	140,877
1983	6,201,334.84	4,388,065	4,843,347	1,357,988	18.39	73,844
1984	11,635,953.35	8,098,624	8,938,894	2,697,059	19.00	141,950
1985	11,793,868.48	8,069,365	8,906,599	2,887,269	19.61	147,235
1986	5,428,995.54	3,672,173	4,053,178	1,375,818	19.85	69,311
1987	17,371,482.38	11,538,139	12,735,275	4,636,207	20.48	226,377
1988	10,429,832.04	6,798,165	7,503,506	2,926,326	21.10	138,688
1989	6,458,089.95	4,152,552	4,583,399	1,874,691	21.38	87,684
1990	13,914,959.21	8,766,424	9,675,981	4,238,978	22.02	192,506
1991	10,753,009.99	6,632,457	7,320,605	3,432,405	22.67	151,407
1992	17,257,764.88	10,475,463	11,562,341	5,695,424	22.98	247,843
1993	12,347,067.42	7,326,750	8,086,934	4,260,133	23.64	180,209
1994	14,817,059.50	8,587,968	9,479,010	5,338,050	24.30	219,673
1995	13,210,593.69	7,514,186	8,293,818	4,916,776	24.64	199,544
1996	11,654,096.84	6,461,031	7,131,393	4,522,704	25.32	178,622
1997	18,136,611.35	9,846,366	10,867,972	7,268,639	25.68	283,047
1998	9,009,090.41	4,756,800	5,250,340	3,758,750	26.37	142,539
1999	13,168,831.85	6,792,483	7,497,235	5,671,597	26.75	212,022
2000	5,730,284.43	2,868,007	3,165,576	2,564,708	27.45	93,432
2001	14,658,936.99	7,147,698	7,889,305	6,769,632	27.85	243,075
2002	12,018,529.43	5,670,342	6,258,666	5,759,863	28.55	201,747
2003	13,042,749.57	5,976,188	6,596,245	6,446,505	28.97	222,523
2004	17,365,462.50	7,672,061	8,468,073	8,897,390	29.69	299,676
2005	15,838,614.77	6,771,008	7,473,532	8,365,083	30.13	277,633
2006	14,387,524.24	5,907,517	6,520,449	7,867,075	30.86	254,928
2007	10,735,391.43	4,246,921	4,687,559	6,047,832	31.32	193,098
2008	11,377,737.70	4,325,816	4,774,640	6,603,098	31.78	207,775
2009	11,560,213.54	4,191,733	4,626,645	6,933,569	32.52	213,209
2010	6,323,739.75	2,191,176	2,418,521	3,905,219	33.01	118,304
2011	14,569,029.47	4,807,780	5,306,609	9,262,420	33.50	276,490
2012	18,368,829.65	5,751,281	6,348,003	12,020,827	34.00	353,554
2013	12,616,191.62	3,731,869	4,119,068	8,497,124	34.52	246,151
2014	18,132,364.96	5,042,611	5,565,805	12,566,560	35.04	358,635
2015	21,465,369.63	5,580,996	6,160,050	15,305,320	35.58	430,166
2016	22,613,143.80	5,461,074	6,027,686	16,585,458	36.12	459,177
2017	24,139,142.86	5,373,373	5,930,885	18,208,258	36.67	496,544
2018	40,947,235.49	8,361,425	9,228,962	31,718,273	37.01	857,019

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

2019	37,192,156.00	6,858,234	7,569,808	29,622,348	37.59	788,038
2020	39,051,446.82	6,443,489	7,112,031	31,939,416	37.95	841,618
2021	44,274,083.74	6,419,742	7,085,820	37,188,264	38.34	969,960
2022	31,917,845.39	3,983,347	4,396,638	27,521,207	38.56	713,724
2023	64,621,995.43	6,720,688	7,417,990	57,204,005	38.79	1,474,710
2024	59,112,195.77	4,882,667	5,389,266	53,722,930	38.87	1,382,118
2025	57,260,005.86	3,464,230	3,823,660	53,436,346	38.82	1,376,516
2026	95,791,636.81	3,620,924	3,996,612	91,795,025	38.18	2,404,270
2027	111,993,555.95	1,545,511	1,705,865	110,287,691	35.86	3,075,507
	1,121,478,959.05	317,446,827	350,377,610	771,101,349		22,700,627

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 34.00 2.02

SURVIVOR CURVE: IOWA 32-S0.5
NET SALVAGE PERCENT: 0

1957	11.91	12	12			
1966	12.10	12	12			
1968	1,204.70	1,145	309	896	1.58	567
1969	12,170.03	11,440	3,090	9,080	1.92	4,729
1970	28,752.63	26,722	7,217	21,536	2.26	9,529
1971	75,475.99	69,367	18,734	56,742	2.59	21,908
1972	176,154.31	160,026	43,219	132,935	2.93	45,370
1973	111,075.91	99,759	26,942	84,134	3.26	25,808
1974	80,391.81	71,348	19,269	61,123	3.60	16,979
1975	132,682.80	116,388	31,433	101,250	3.93	25,763
1976	48,302.75	41,857	11,304	36,999	4.27	8,665
1977	67,334.84	57,635	15,566	51,769	4.61	11,230
1978	105,444.56	89,133	24,072	81,373	4.95	16,439
1979	131,382.08	109,663	29,617	101,765	5.29	19,237
1980	129,656.24	106,845	28,856	100,800	5.63	17,904
1981	15,417.61	12,536	3,386	12,032	5.98	2,012
1982	146,380.73	117,425	31,713	114,668	6.33	18,115
1983	12,527.33	10,981	2,966	9,561	6.26	1,527
1984	45,573.82	39,649	10,708	34,866	6.50	5,364
1985	211,515.07	181,586	49,041	162,474	7.00	23,211
1986	140,585.16	119,610	32,303	108,282	7.28	14,874
1987	198,167.50	166,936	45,085	153,082	7.58	20,196
1988	158,254.40	131,889	35,620	122,634	7.90	15,523
1989	180,095.78	148,381	40,074	140,022	8.23	17,014
1990	214,172.50	175,086	47,286	166,886	8.37	19,939
1991	213,883.28	172,518	46,592	167,291	8.75	19,119
1992	126,147.26	100,312	27,092	99,055	9.14	10,838
1993	404,647.08	318,295	85,963	318,684	9.36	34,047
1994	393,875.88	304,781	82,313	311,563	9.79	31,825
1995	194,222.95	148,347	40,064	154,159	10.05	15,339
1996	331,782.70	249,766	67,455	264,328	10.34	25,564
1997	809,847.57	600,259	162,114	647,734	10.65	60,820
1998	788,981.08	574,852	155,252	633,729	10.99	57,664
1999	410,743.51	293,846	79,360	331,384	11.34	29,223
2000	647,441.12	453,986	122,609	524,832	11.72	44,781
2001	1,492,923.11	1,028,624	277,803	1,215,120	11.96	101,599
2002	1,438,621.81	968,480	261,560	1,177,062	12.38	95,078
2003	1,198,932.42	790,096	213,383	985,549	12.68	77,725
2004	1,194,108.09	768,886	207,655	986,453	13.00	75,881
2005	1,270,262.14	794,549	214,586	1,055,676	13.47	78,372
2006	1,558,298.61	951,497	256,973	1,301,326	13.71	94,918
2007	2,192,300.88	1,298,719	350,748	1,841,553	14.10	130,607
2008	1,731,944.88	992,924	268,162	1,463,783	14.51	100,881
2009	1,526,449.89	847,180	228,800	1,297,650	14.83	87,502
2010	2,674,364.88	1,432,122	386,777	2,287,588	15.18	150,697
2011	2,110,671.56	1,086,574	293,454	1,817,218	15.55	116,863
2012	2,166,116.43	1,067,679	288,351	1,877,765	15.95	117,728
2013	1,329,441.64	624,572	168,680	1,160,762	16.36	70,951
2014	1,904,643.09	850,995	229,830	1,674,813	16.71	100,228
2015	1,727,033.00	729,671	197,064	1,529,969	17.09	89,524
2016	1,815,402.39	720,352	194,547	1,620,855	17.48	92,726
2017	5,934,383.75	2,193,348	592,363	5,342,021	17.91	298,270
2018	9,825,391.89	3,360,284	907,521	8,917,871	18.28	487,849
2019	10,677,446.49	3,339,905	902,017	9,775,429	18.67	523,590

SURVIVOR CURVE: IOWA 32-S0.5

NET SALVAGE PERCENT: 0

2020	12,169,596.35	3,431,826	926,843	11,242,753	19.10	588,626
2021	3,126,660.71	782,291	211,275	2,915,386	19.48	149,660
2022	194,656.37	42,085	11,366	183,290	19.94	9,192
2023	10,022,757.47	1,818,128	491,027	9,531,730	20.31	469,312
2024	10,484,267.20	1,516,025	409,437	10,074,830	20.71	486,472
2025	14,931,883.84	1,579,793	426,659	14,505,225	21.14	686,151
2026	3,668,193.54	239,166	64,593	3,603,601	21.49	167,687
2027	5,415,776.45	121,313	32,763	5,383,013	21.77	247,267
	120,526,843.86	38,659,477	10,440,885	110,085,959		6,386,479

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.20 5.30

SURVIVOR CURVE: IOWA 20-S2
NET SALVAGE PERCENT: 0

2024	33,182.24	6,563	6,133	27,049	14.20	1,905
2025	4,867,339.64	690,189	644,990	4,222,350	15.14	278,887
2026	41,017,013.15	3,494,650	3,265,791	37,751,222	16.11	2,343,341
2027	48,741,988.04	1,384,272	1,293,618	47,448,370	17.11	2,773,137
	94,659,523.06	5,575,674	5,210,532	89,448,991		5,397,270

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.60 5.70

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1922	4,121.68	4,122	4,122			
1923	40,522.15	40,522	40,522			
1924	36,512.71	36,513	36,513			
1925	39,512.03	39,512	39,512			
1926	35,462.69	35,353	15,920	19,543	1.00	19,543
1927	41,036.81	40,723	18,339	22,698	1.00	22,698
1928	36,072.84	35,620	16,041	20,032	1.00	20,032
1929	36,449.30	35,826	16,133	20,316	1.00	20,316
1930	32,318.15	31,613	14,236	18,082	1.20	15,068
1931	22,634.93	22,034	9,923	12,712	1.46	8,707
1932	24,263.22	23,505	10,585	13,678	1.72	7,952
1933	24,910.55	24,005	10,810	14,101	2.00	7,050
1934	25,819.23	24,754	11,147	14,672	2.27	6,463
1935	16,420.74	15,662	7,053	9,368	2.54	3,688
1936	28,673.03	27,203	12,250	16,423	2.82	5,824
1937	31,896.54	30,099	13,554	18,343	3.10	5,917
1938	43,899.27	41,193	18,550	25,349	3.39	7,478
1939	7,420.19	6,924	3,118	4,302	3.68	1,169
1940	12,994.58	12,059	5,431	7,564	3.96	1,910
1941	17,907.77	16,524	7,441	10,467	4.25	2,463
1942	16,398.89	15,045	6,775	9,624	4.54	2,120
1943	8,640.60	7,882	3,549	5,092	4.83	1,054
1944	5,974.88	5,419	2,440	3,535	5.12	690
1945	4,671.27	4,212	1,897	2,774	5.41	513
1946	17,851.15	16,001	7,206	10,645	5.70	1,868
1947	33,829.32	30,145	13,575	20,254	5.99	3,381
1948	35,301.11	31,264	14,079	21,222	6.29	3,374
1949	71,340.24	62,805	28,283	43,057	6.58	6,544
1950	65,227.63	57,068	25,699	39,529	6.88	5,745
1951	67,382.10	58,585	26,382	41,000	7.18	5,710
1952	44,510.57	38,457	17,318	27,193	7.48	3,635
1953	66,269.65	56,896	25,622	40,648	7.78	5,225
1954	82,586.70	70,439	31,721	50,866	8.09	6,288
1955	106,873.97	90,532	40,769	66,105	8.41	7,860
1956	118,332.51	99,550	44,830	73,503	8.73	8,420
1957	120,705.19	100,821	45,403	75,302	9.06	8,311
1958	123,574.30	102,476	46,148	77,426	9.39	8,246
1959	119,036.76	97,978	44,122	74,915	9.73	7,699
1960	111,026.11	90,678	40,835	70,191	10.08	6,963
1961	114,529.44	92,810	41,795	72,734	10.43	6,974
1962	115,881.96	93,127	41,938	73,944	10.80	6,847
1963	101,239.18	80,679	36,332	64,907	11.17	5,811
1964	117,389.70	92,738	41,762	75,628	11.55	6,548
1965	100,970.77	79,033	35,591	65,380	11.95	5,471
1966	84,432.28	65,473	29,484	54,948	12.35	4,449
1967	101,327.38	77,819	35,044	66,283	12.76	5,195
1968	116,878.56	88,870	40,021	76,858	13.18	5,831
1969	101,557.34	76,408	34,409	67,148	13.62	4,930
1970	111,243.94	82,806	37,290	73,954	14.06	5,260
1971	154,922.17	114,051	51,360	103,562	14.51	7,137
1972	184,716.88	134,407	60,527	124,190	14.98	8,290
1973	201,740.56	145,070	65,329	136,412	15.45	8,829
1974	133,715.06	94,962	42,764	90,951	15.94	5,706
1975	194,109.07	136,088	61,284	132,825	16.44	8,079

SURVIVOR CURVE: IOWA 55-R2
NET SALVAGE PERCENT: 0

1976	109,509.87	75,761	34,117	75,393	16.95	4,448
1977	225,053.35	153,567	69,155	155,898	17.47	8,924
1978	188,716.38	126,989	57,187	131,529	17.99	7,311
1979	119,763.13	79,392	35,752	84,011	18.54	4,531
1980	172,316.69	112,507	50,665	121,652	19.09	6,373
1981	291,042.83	187,062	84,239	206,804	19.65	10,524
1982	280,772.34	177,549	79,955	200,817	20.22	9,932
1983	170,056.00	120,332	54,189	115,867	18.39	6,301
1984	347,133.40	241,605	108,801	238,332	19.00	12,544
1985	304,842.04	208,573	93,926	210,916	19.61	10,756
1986	192,237.15	130,029	58,556	133,681	19.85	6,735
1987	234,438.83	155,714	70,122	164,317	20.48	8,023
1988	213,237.83	138,988	62,590	150,648	21.10	7,140
1989	101,221.66	65,086	29,310	71,912	21.38	3,364
1990	155,428.37	97,920	44,096	111,332	22.02	5,056
1991	409,495.65	252,577	113,742	295,754	22.67	13,046
1992	531,752.94	322,774	145,354	386,399	22.98	16,815
1993	272,037.96	161,427	72,695	199,343	23.64	8,432
1994	275,151.88	159,478	71,817	203,335	24.30	8,368
1995	198,026.53	112,637	50,724	147,303	24.64	5,978
1996	1,330,269.97	737,502	332,118	998,152	25.32	39,421
1997	1,384,260.55	751,515	338,428	1,045,833	25.68	40,726
1998	1,013,383.87	535,067	240,956	772,428	26.37	29,292
1999	970,778.02	500,727	225,491	745,287	26.75	27,861
2000	1,082,848.81	541,966	244,062	838,787	27.45	30,557
2001	1,444,727.53	704,449	317,233	1,127,495	27.85	40,485
2002	2,036,785.95	960,956	432,745	1,604,041	28.55	56,184
2003	1,540,034.92	705,644	317,771	1,222,264	28.97	42,191
2004	2,016,898.75	891,066	401,272	1,615,627	29.69	54,417
2005	2,188,335.76	935,514	421,288	1,767,048	30.13	58,647
2006	1,840,407.57	755,671	340,300	1,500,108	30.86	48,610
2007	1,907,297.11	754,527	339,785	1,567,512	31.32	50,048
2008	2,192,639.09	833,641	375,412	1,817,227	31.78	57,181
2009	2,336,546.03	847,232	381,532	1,955,014	32.52	60,117
2010	2,256,665.73	781,935	352,127	1,904,539	33.01	57,696
2011	1,555,595.30	513,346	231,174	1,324,421	33.50	39,535
2012	1,586,445.39	496,716	223,685	1,362,760	34.00	40,081
2013	1,337,616.86	395,667	178,180	1,159,437	34.52	33,587
2014	1,481,232.11	411,931	185,504	1,295,728	35.04	36,979
2015	1,683,733.43	437,771	197,141	1,486,592	35.58	41,782
2016	2,090,116.46	504,763	227,309	1,862,807	36.12	51,573
2017	2,431,970.87	541,357	243,788	2,188,183	36.67	59,672
2018	2,111,929.02	431,256	194,207	1,917,722	37.01	51,816
2019	2,410,768.00	444,546	200,192	2,210,576	37.59	58,808
2020	2,301,421.54	379,735	171,005	2,130,417	37.95	56,137
2021	2,939,233.08	426,189	191,925	2,747,308	38.34	71,656
	55,977,212.20	22,335,016	10,124,405	45,852,807		1,744,941

SURVIVOR CURVE: IOWA 50-R0.5
NET SALVAGE PERCENT: 0

1888	92.52	93	93		
1903	19.22	19	19		
1923	734.41	734	734		
1925	132.42	132	132		
1927	124.42	124	124		
1930	75.73	74	76		
1934	139.64	131	140		
1936	72.28	66	72		
1937	101.94	93	102		
1941	900.61	789	901		
1942	835.87	725	836		
1943	2,476.79	2,129	2,477		
1945	660.47	557	660		
1946	247.36	207	247		
1947	494.83	409	495		
1948	148.37	122	148		
1949	2,124.01	1,723	2,124		
1950	1,209.20	971	1,209		
1951	1,161.43	924	1,161		
1952	7,393.66	5,823	7,394		
1953	10,125.68	7,894	10,126		
1954	13,046.94	10,067	13,047		
1955	19,666.70	15,017	19,509	158	12.15
1956	29,782.34	22,504	29,236	546	12.13
1957	26,960.19	20,155	26,184	776	12.72
1958	15,702.62	11,614	15,088	615	13.09
1959	31,025.96	22,692	29,480	1,546	13.44
1960	19,608.77	14,181	18,423	1,186	13.79
1961	16,954.19	12,122	15,748	1,206	14.19
1962	32,606.13	23,039	29,931	2,675	14.70
1963	20,013.05	13,973	18,153	1,860	15.12
1964	15,164.24	10,460	13,589	1,575	15.44
1965	50,155.54	34,176	44,400	5,756	15.94
1966	35,219.58	23,696	30,785	4,435	16.37
1967	20,084.49	13,336	17,326	2,758	16.82
1968	29,182.27	19,126	24,848	4,334	17.20
1969	35,707.61	23,089	29,996	5,712	17.68
1970	33,565.39	21,401	27,803	5,762	18.12
1971	80,549.22	50,633	65,780	14,769	18.58
1972	42,129.90	26,104	33,913	8,217	19.02
1973	50,258.82	30,678	39,855	10,404	19.48
1974	5,622.67	3,380	4,391	1,232	19.87
1975	15,859.89	9,389	12,198	3,662	20.34
1976	34,882.62	20,323	26,403	8,480	20.89
1977	13,318.47	7,631	9,914	3,404	21.41
1978	10,964.84	6,178	8,026	2,939	21.77
1979	118,557.02	65,657	85,299	33,258	22.31
1980	104,030.99	56,593	73,523	30,508	22.80
1981	123,440.15	65,942	85,669	37,771	23.29
1982	169,230.88	88,711	115,249	53,982	23.79
1983	86,095.64	58,235	75,656	10,440	21.31
1984	100,358.47	67,230	87,342	13,016	21.44
1985	154,635.14	101,874	132,350	22,285	22.02
1986	356,364.62	232,207	301,673	54,692	22.19

SURVIVOR CURVE: IOWA 50-R0.5
NET SALVAGE PERCENT: 0

1987	161,275.67	103,862	134,933	26,343	22.38	1,177
1988	475,250.22	300,358	390,212	85,038	23.00	3,697
1989	441,838.56	275,575	358,015	83,824	23.23	3,608
1990	239,094.03	147,043	191,032	48,062	23.48	2,047
1991	396,155.13	238,565	309,933	86,222	24.11	3,576
1992	104,735.14	62,087	80,661	24,074	24.39	987
1993	82,551.24	48,127	62,524	20,027	24.66	812
1994	154,453.36	88,471	114,937	39,516	24.98	1,582
1995	168,972.49	94,996	123,414	45,558	25.31	1,800
1996	142,443.71	78,515	102,003	40,441	25.64	1,577
1997	163,083.33	88,032	114,367	48,716	26.00	1,874
1998	81,303.11	42,928	55,770	25,533	26.38	968
1999	118,733.59	61,243	79,564	39,170	26.76	1,464
2000	155,234.54	78,114	101,482	53,753	27.15	1,980
2001	97,018.03	47,820	62,126	34,892	27.26	1,280
2002	126,304.48	60,550	78,664	47,640	27.70	1,720
2003	197,522.55	92,441	120,095	77,428	27.85	2,780
2004	186,498.72	84,596	109,903	76,596	28.31	2,706
2006	21,962.27	9,395	12,206	9,756	28.78	339
2007	144,557.27	59,861	77,769	66,788	29.00	2,303
2008	45,223.65	18,080	23,489	21,735	29.29	742
2010	1,291.71	479	622	670	29.13	23
2011	27,033.73	9,635	12,517	14,517	29.81	487
2012	475,127.42	162,018	210,486	264,641	29.95	8,836
2013	1,056,586.74	343,179	445,843	610,744	30.14	20,264
2014	145,105.23	44,867	58,289	86,816	30.17	2,878
2015	361,318.51	105,686	137,302	224,017	30.24	7,408
2016	612,357.20	169,011	219,572	392,785	30.17	13,019
2017	1,648,106.95	425,706	553,058	1,095,049	30.15	36,320
2018	613,691.11	147,531	191,666	422,025	30.02	14,058
2019	227,574.52	50,294	65,340	162,235	29.96	5,415
2020	444,824.79	89,766	116,620	328,205	29.67	11,062
2021	915,011.15	165,983	215,637	699,374	29.34	23,837
2022	34,230.18	5,460	7,093	27,137	28.99	936
2023	1,009,919.10	138,561	180,012	829,907	28.29	29,336
2024	158,679.05	17,931	23,295	135,384	27.46	4,930
2025	10,276.91	892	1,159	9,118	26.35	346
2026	29,950.52	1,734	2,253	27,698	24.40	1,135
13,415,312.12		5,184,544	6,733,920	6,681,392	235,854	

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.30 1.76

SURVIVOR CURVE: IOWA 20-S4
NET SALVAGE PERCENT: 0

1997	53,681.30	52,887	53,681
1998	24,038.51	23,543	24,039
2005	14,566,812.47	13,437,885	14,566,812
	14,644,532.28	13,514,315	14,644,532

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 26-R2.5
NET SALVAGE PERCENT: 0

2005	105,725.07	79,928	76,299	29,426	7.26	4,053
2006	227,021.56	166,929	159,349	67,673	7.74	8,743
2007	171,529.13	122,369	116,813	54,716	8.24	6,640
2008	108,322.12	74,569	71,183	37,139	8.83	4,206
2010	122,431.75	77,989	74,448	47,984	9.97	4,813
2011	399,256.94	243,746	232,679	166,578	10.53	15,819
2012	232,699.81	135,245	129,104	103,596	11.17	9,274
2013	60,862.68	33,621	32,094	28,769	11.75	2,448
2014	431,690.20	225,515	215,275	216,415	12.34	17,538
2015	1,237,640.23	606,444	578,908	658,732	13.01	50,633
2016	609,094.79	278,783	266,125	342,970	13.63	25,163
2017	2,058,184.75	871,024	831,475	1,226,710	14.31	85,724
2018	1,677,143.97	651,738	622,145	1,054,999	14.95	70,568
2019	237,273.95	83,710	79,909	157,365	15.60	10,088
2020	1,215,336.05	383,803	366,376	848,960	16.25	52,244
2021	5,226,603.18	1,450,905	1,385,026	3,841,577	16.92	227,044
2022	708,549.81	169,131	161,451	547,099	17.54	31,192
2023	314,458.71	62,389	59,556	254,903	18.18	14,021
2024	682,673.90	107,316	102,443	580,231	18.77	30,913
2025	552,615.55	63,440	60,560	492,056	19.29	25,508
	16,379,114.15	5,888,594	5,621,218	10,757,896		696,632

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 15.40 4.25

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1895	221.00	221	221			
1896	578.00	578	578			
1897	265.80	266	266			
1898	123.55	124	124			
1899	219.60	220	220			
1900	78.67	79	79			
1901	1,043.20	1,043	1,043			
1902	9.85	10	10			
1903	356.24	356	356			
1904	105.00	105	105			
1905	271.56	272	272			
1907	515.26	515	515			
1908	1.22	1	1			
1909	5.00	5	5			
1912	107.28	107	107			
1913	418.90	419	419			
1914	242.34	242	242			
1915	59.34	59	59			
1916	348.78	349	349			
1917	37.03	37	37			
1919	20.00	20	20			
1920	747.78	748	748			
1923	337.00	337	337			
1924	1,098.02	1,098	1,098			
1925	257.57	258	258			
1926	32.00	32	32			
1927	101.50	101	102			
1928	38.20	38	38			
1929	741.31	732	741			
1930	63.71	63	64			
1932	25.00	24	25			
1935	6.60	6	7			
1936	23.00	22	23			
1937	126.06	121	126			
1940	94.65	89	95			
1941	123.94	116	124			
1942	91.94	86	92			
1944	457.06	423	457			
1945	266.11	245	266			
1946	58.28	53	58			
1948	15.96	15	16			
1949	91.53	83	92			
1950	62.45	56	62			
1951	36.13	32	36			
1952	23.18	21	23			
1953	38.67	34	38	1		
1954	53.96	48	54			
1956	308.81	269	303	6	6.00	1
1958	3,915.91	3,372	3,804	112	8.62	13
1959	630.52	539	608	23	7.67	3
1960	914.07	777	877	37	9.25	4
1961	147.59	125	141	7	7.00	1
1962	74.23	62	70	4		
1963	124.21	103	116	8	8.00	1

SURVIVOR CURVE: IOWA 60-R3
NET SALVAGE PERCENT: 0

1964	42.01	35	39	3		
1965	515.64	421	475	41	10.25	4
1966	2,820.19	2,283	2,576	244	11.62	21
1967	76.52	61	69	8	8.00	1
1968	563.97	448	505	59	11.80	5
1969	267.27	210	237	30	15.00	2
1973	263.19	198	223	40	13.33	3
1977	149.17	106	120	29	14.50	2
1978	842.86	592	668	175	17.50	10
1980	349.81	238	269	81	20.25	4
1981	13,624.82	9,120	10,289	3,336	19.86	168
1983	6,888.56	4,812	5,428	1,461	19.22	76
1984	1,771.57	1,218	1,374	398	19.90	20
1987	565.85	369	416	150	21.43	7
2017	8,100.00	1,573	1,775	6,325	43.62	145
	52,996.00	36,840	40,422	12,574		491

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 25.60 0.93

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

1940	1,897.88	1,675	1,880	18	6.00	3
1946	2,263.20	1,930	2,167	96	8.00	12
1950	2,462.49	2,048	2,299	163	9.06	18
1953	880.12	717	805	75	10.71	7
1955	797.97	641	720	78	11.14	7
1957	4,745.44	3,754	4,214	531	11.54	46
1958	2,468.92	1,938	2,176	293	11.72	25
1960	53,545.11	41,346	46,413	7,132	12.53	569
1961	803.35	615	690	113	12.56	9
1966	88,969.78	64,980	72,944	16,026	14.83	1,081
1967	4,961.68	3,587	4,027	935	15.33	61
1968	662.00	474	532	130	16.25	8
1970	139,160.80	97,311	109,237	29,924	16.54	1,809
1971	9,670.08	6,683	7,502	2,168	16.94	128
1972	1,344.63	918	1,031	314	17.44	18
1973	4,889.56	3,296	3,700	1,190	18.03	66
1974	1,386.89	923	1,036	351	18.47	19
1975	10,546.67	6,926	7,775	2,772	18.86	147
1976	5,196.06	3,365	3,777	1,419	19.44	73
1977	62.43	40	45	17	17.00	1
1978	4,124.53	2,594	2,912	1,213	20.56	59
1979	18,283.67	11,326	12,714	5,570	20.94	266
1980	10,309.48	6,285	7,055	3,254	21.41	152
1981	16,134.89	9,675	10,861	5,274	21.98	240
1982	53,000.44	31,251	35,081	17,919	22.57	794
1983	78,947.11	54,102	60,733	18,214	20.44	891
1984	42,628.93	28,928	32,473	10,156	20.60	493
1985	99,379.11	66,306	74,432	24,947	21.20	1,177
1986	43,320.81	28,405	31,886	11,435	21.78	525
1987	94,751.21	61,399	68,924	25,827	22.00	1,174
1988	37,942.45	24,131	27,088	10,854	22.61	480
1989	89,798.62	56,007	62,871	26,928	23.23	1,159
1990	35,931.24	22,098	24,806	11,125	23.47	474
1991	64,371.50	38,765	43,516	20,856	24.11	865
1992	53,612.59	31,782	35,677	17,936	24.37	736
1993	61,021.98	35,368	39,703	21,319	25.02	852
1994	1,983.98	1,130	1,268	716	25.57	28
1995	57,217.29	31,801	35,698	21,519	25.99	828
1996	157,326.55	85,743	96,252	61,075	26.30	2,322
1997	91,803.58	48,720	54,691	37,113	26.97	1,376
1998	1,315.29	683	767	548	27.40	20
2000	13,888.87	6,836	7,674	6,215	28.38	219
2001	5,745.30	2,755	3,093	2,652	28.83	92
2002	132,189.85	61,349	68,868	63,322	29.45	2,150
2003	109,881.07	49,534	55,605	54,276	29.85	1,818
2004	581,032.03	253,969	285,095	295,937	30.26	9,780
2005	63,024.82	26,659	29,926	33,099	30.70	1,078
2006	27,134.92	11,085	12,444	14,691	31.13	472
2007	85,942.67	33,827	37,973	47,970	31.58	1,519
2009	144,114.51	52,256	58,660	85,455	32.52	2,628
2010	1,319,939.25	457,359	513,412	806,527	33.01	24,433
2011	972,913.34	321,061	360,410	612,503	33.50	18,284
2012	134,924.96	42,447	47,649	87,276	33.76	2,585
2013	311,036.15	92,440	103,769	207,267	34.28	6,046

SURVIVOR CURVE: IOWA 55-R1.5
NET SALVAGE PERCENT: 0

2014	287,170.99	80,638	90,521	196,650	34.58	5,687
2015	365,416.18	96,397	108,211	257,205	34.89	7,372
2017	588,905.24	134,153	150,595	438,310	35.59	12,316
2018	747,356.09	156,945	176,180	571,176	35.75	15,977
2019	1,021,814.44	195,371	219,315	802,499	35.95	22,323
2020	168,707.49	28,984	32,536	136,171	36.17	3,765
2021	449,756.34	68,408	76,792	372,964	36.24	10,292
2022	129,870.32	17,143	19,244	110,626	36.16	3,059
2023	9,011,702.46	1,002,101	1,124,918	7,886,784	35.98	219,199
2024	4,044,334.40	360,755	404,969	3,639,365	35.72	101,886
2025	29,068,794.62	1,941,795	2,179,780	26,889,015	34.95	769,357
2026	7,865,066.93	335,052	376,115	7,488,952	33.71	222,158
2027	18,534,559.40	302,113	339,140	18,195,419	30.17	603,096
	77,635,142.95	7,051,098	7,915,272	69,719,871		2,086,609

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.40 2.69

INTERIM SURVIVOR CURVE: IOWA 75-R0.5
 PROBABLE RETIREMENT DATE: 1-2029
 NET SALVAGE PERCENT: 0

2005	2,377,686.06	2,268,313	2,226,710	150,976	1.08	139,793
2007	2,330.13	2,212	2,171	159	1.10	145
2010	124,458.49	117,178	115,029	9,429	1.09	8,650
2011	695,247.30	652,698	640,727	54,520	1.08	50,481
2012	93,001.74	86,919	85,325	7,677	1.08	7,108
2014	38,506.43	35,661	35,007	3,499	1.08	3,240
2015	1,365,565.10	1,256,320	1,233,278	132,287	1.09	121,364
2016	2,895,168.46	2,646,763	2,598,219	296,949	1.08	274,953
2017	139,955.66	126,968	124,639	15,317	1.07	14,315
2018	17,380.53	15,604	15,318	2,063	1.08	1,910
2020	145,433.26	127,181	124,848	20,585	1.08	19,060
2021	11,485.84	9,848	9,667	1,819	1.08	1,684
2026	78,817.54	45,872	45,031	33,787	1.08	31,284
2027	297,544.44	94,560	92,826	204,718	1.07	191,325
	8,282,580.98	7,486,097	7,348,795	933,786		865,312

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 1.10 10.45

SURVIVOR CURVE.. 20-SQUARE
NET SALVAGE PERCENT: 0

1993	533.45	533	533			
1995	457.75	458	458			
1998	10,923.76	10,924	10,924			
1999	0.01					
2004	1,700.52	1,701	1,701			
2005	17,955.43	17,955	17,955			
2006	17,232.80	17,233	17,233			
2007	48,314.01	48,314	48,314			
2008	2,320.34	2,262	2,320			
2009	41,893.09	38,751	41,893			
2010	20,461.93	17,904	20,462			
2011	516,133.70	425,810	497,250	18,884	3.50	5,395
2012	11,012.02	8,534	9,966	1,046	4.51	232
2013	116,026.81	84,119	98,232	17,795	5.50	3,235
2014	151,293.17	102,123	119,257	32,036	6.50	4,929
2015	1,388,947.60	868,092	1,013,737	375,211	7.50	50,028
2016	298,564.95	171,675	200,478	98,087	8.50	11,540
2017	29,688.19	15,586	18,201	11,487	9.50	1,209
2021	9,260.23	3,010	3,515	5,745	13.49	426
2023	17,033.67	3,833	4,476	12,558	15.50	810
2026	6,470.98	485	566	5,905	18.51	319
	2,706,224.41	1,839,302	2,127,471	578,753		78,123

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.40 2.89

SURVIVOR CURVE.. 5-SQUARE
NET SALVAGE PERCENT: 0

2012	1,577.35	1,577	1,577	
2013	8,295.34	8,295	8,295	
2019	1,104.94	1,105	1,105	
2020	1,198.54	1,199	1,199	
2021	560,469.65	560,470	560,470	
2022	688,646.61	688,647	688,647	
2023	255,021.36	229,519	488,535	(233,514)
	1,516,313.79	1,490,812	1,749,828	(233,514)

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2012	6,374.27	6,374	6,374			
2013	131.73	127	86	46	1.00	46
2017	14,554.52	10,188	6,895	7,660	4.50	1,702
2018	54,465.52	34,495	23,344	31,122	5.50	5,659
2019	15,022.00	8,513	5,761	9,261	6.50	1,425
2020	13,792.00	6,896	4,667	9,125	7.50	1,217
2021	30,392.00	13,170	8,913	21,479	8.50	2,527
2026	55,178.82	5,518	3,734	51,445	13.50	3,811
	189,910.86	85,281	59,774	130,137		16,387

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.90 8.63

SURVIVOR CURVE: IOWA 6-L2.5
NET SALVAGE PERCENT: 0

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.00 0.00

SURVIVOR CURVE: IOWA 10-L2.5
NET SALVAGE PERCENT: 0

1999	84,792.78	84,793	84,793			
2002	674.67	666	521	154	1.00	154
2004	31,941.52	30,926	24,206	7,736	1.00	7,736
2007	8,059.68	7,616	5,961	2,099	1.19	1,764
2008	14,171.26	13,264	10,382	3,789	1.33	2,849
2009	25,496.85	23,585	18,460	7,037	1.50	4,691
2013	97,443.59	84,493	66,133	31,311	2.22	14,104
2014	53,877.95	45,753	35,811	18,067	2.40	7,528
2015	71,670.92	59,401	46,494	25,177	2.58	9,759
2016	1,844,433.10	1,491,040	1,167,049	677,384	2.73	248,126
2017	2,490,487.39	1,958,519	1,532,948	957,539	2.85	335,979
2018	4,603,142.02	3,511,277	2,748,304	1,854,838	2.95	628,759
2019	6,349,066.92	4,651,961	3,641,127	2,707,940	3.10	873,529
2020	11,251,334.86	7,797,175	6,102,911	5,148,424	3.32	1,550,730
2021	10,446,308.87	6,681,459	5,229,631	5,216,678	3.66	1,425,322
2022	3,725,837.78	2,127,081	1,664,883	2,060,955	4.13	499,021
2023	8,010,005.34	3,910,485	3,060,768	4,949,237	4.72	1,048,567
2024	12,780,120.85	5,027,700	3,935,221	8,844,900	5.40	1,637,944
2025	4,990,719.94	1,443,316	1,129,695	3,861,025	6.14	628,831
2026	10,408,091.02	1,845,355	1,444,374	8,963,717	6.96	1,287,890
2027	11,944,454.90	714,278	559,071	11,385,384	7.85	1,450,367
	89,232,132.21	41,510,143	32,508,743	56,723,389		11,663,650

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.90 13.07

SURVIVOR CURVE: IOWA 15-L2
NET SALVAGE PERCENT: 0

1999	6,041.56	5,562	(3,189)	9,231	2.46	3,752
2000	428.50	391	(224)	652	2.62	249
2006	7,941.34	6,744	(3,867)	11,808	3.82	3,091
2007	6,101.87	5,104	(2,926)	9,028	4.01	2,251
2008	5,317.76	4,376	(2,509)	7,827	4.20	1,864
2009	16,262.08	13,146	(7,537)	23,799	4.38	5,434
2010	3,019.33	2,394	(1,373)	4,392	4.57	961
2011	7,703.14	5,987	(3,433)	11,136	4.73	2,354
2012	10,292.63	7,833	(4,491)	14,784	4.87	3,036
2013	3,411.18	2,537	(1,455)	4,866	4.99	975
2015	23,703.85	16,652	(9,547)	33,251	5.29	6,286
2016	110,229.84	74,670	(42,812)	153,042	5.48	27,927
2017	197,928.34	128,653	(73,763)	271,691	5.65	48,087
2019	381,389.93	220,138	(126,216)	507,606	6.23	81,478
2020	101,945.50	54,133	(31,037)	132,982	6.62	20,088
2021	82,766.88	39,488	(22,640)	105,407	7.12	14,804
2023	190,415.70	66,760	(38,277)	228,693	8.34	27,421
2024	267,669.35	74,840	(42,910)	310,579	9.02	34,432
2025	2,105,258.81	430,525	(246,841)	2,352,100	9.72	241,986
2026	2,024,470.65	253,059	(145,091)	2,169,562	10.50	206,625
2027	1,523,517.72	64,140	(36,775)	1,560,293	11.38	137,108
	7,075,815.96	1,477,132	(846,913)	7,922,729		870,209

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.10 12.30

SURVIVOR CURVE.. 25-SQUARE
NET SALVAGE PERCENT: 0

2006	4.01	3	1	3	3.00	1
2007	54.28	45	8	46	4.60	10
2010	41.71	29	5	37	7.40	5
2011	356.77	235	39	318	8.59	37
	456.77	312	53	404		53

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.60 11.60

SURVIVOR CURVE.. 25-SQUARE
NET SALVAGE PERCENT: 0

1999	85,604.32	85,604	85,604			
2000	185,086.27	185,086	185,086			
2001	174,529.30	174,529	174,529			
2002	306,682.93	306,683	306,683			
2003	174,394.51	170,907	168,804	5,591	1.00	5,591
2004	365,098.35	343,192	338,970	26,128	1.50	17,419
2005	68,367.91	61,531	60,774	7,594	2.50	3,038
2006	166,543.86	143,228	141,466	25,078	3.50	7,165
2007	535,649.18	439,232	433,828	101,821	4.50	22,627
2008	426,064.01	332,330	328,241	97,823	5.50	17,786
2009	701,230.88	518,911	512,527	188,704	6.50	29,031
2010	561,885.63	393,320	388,481	173,405	7.50	23,121
2011	389,917.15	257,345	254,179	135,738	8.50	15,969
2012	434,758.42	269,550	266,234	168,524	9.50	17,739
2013	570,767.74	331,045	326,972	243,796	10.50	23,219
2014	67,130.34	36,250	35,804	31,326	11.50	2,724
2015	24,554.12	12,277	12,126	12,428	12.50	994
2016	145,238.16	66,810	65,988	79,250	13.50	5,870
2017	106,069.83	44,549	44,001	62,069	14.50	4,281
2018	271,537.47	103,184	101,914	169,623	15.50	10,943
2019	29,815.31	10,137	10,012	19,803	16.50	1,200
2020	48,470.17	14,541	14,362	34,108	17.50	1,949
2021	167,463.22	43,540	43,004	124,459	18.50	6,728
2022	521,116.67	114,646	113,236	407,881	19.50	20,917
2023	145,649.56	26,217	25,894	119,756	20.50	5,842
2024	15,892.01	2,225	2,198	13,694	21.50	637
2025	26,716.50	2,672	2,639	24,078	22.50	1,070
2026	1,937,714.13	116,263	114,832	1,822,882	23.50	77,569
2027	981,300.71	19,626	19,385	961,916	24.50	39,262
	9,635,248.66	4,625,430	4,577,773	5,057,476		362,691

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 13.90 3.76

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2014	130,860.25	117,774	130,860			
2018	267,256.56	169,262	208,242	59,015	5.50	10,730
	398,116.81	287,036	339,102	59,015		10,730

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.50 2.70

SURVIVOR CURVE: IOWA 15-L2
NET SALVAGE PERCENT: 0

1961	1,243.59	1,244	1,244			
1962	450.16	450	450			
1975	224.04	224	224			
1985	7,333.73	7,325	7,252	82	1.00	82
1987	4,834.79	4,797	4,749	86	1.00	86
1988	1,259.65	1,244	1,232	28	1.00	28
1989	13,383.80	13,191	13,059	325	1.00	325
1991	737.65	719	712	26	1.00	26
1992	91,274.26	88,463	87,575	3,699	1.13	3,273
1993	37,680.05	36,271	35,907	1,773	1.34	1,323
1994	73,727.54	70,395	69,689	4,039	1.59	2,540
1995	12,596.52	11,954	11,834	763	1.75	436
1997	52,373.15	49,042	48,550	3,823	2.07	1,847
1999	249,919.79	230,076	227,768	22,152	2.46	9,005
2000	71,791.88	65,546	64,888	6,904	2.62	2,635
2001	28,866.22	26,084	25,822	3,044	2.83	1,076
2002	60,562.97	54,204	53,660	6,903	2.99	2,309
2003	66,766.44	59,048	58,456	8,310	3.20	2,597
2004	83,086.22	72,634	71,905	11,181	3.38	3,308
2005	194,774.58	167,857	166,173	28,602	3.61	7,923
2006	13,350.28	11,337	11,223	2,127	3.82	557
2007	129,524.07	108,334	107,247	22,277	4.01	5,555
2008	40,996.81	33,736	33,398	7,599	4.20	1,809
2009	29,192.47	23,599	23,362	5,830	4.38	1,331
2010	17,218.85	13,651	13,514	3,705	4.57	811
2011	351,118.35	272,889	270,151	80,967	4.73	17,118
2012	398,193.24	303,025	299,985	98,208	4.87	20,166
2013	225,019.94	167,370	165,691	59,329	4.99	11,890
2014	706,830.16	511,462	506,330	200,500	5.16	38,857
2015	864,384.96	607,230	601,138	263,247	5.29	49,763
2016	475,281.67	321,956	318,726	156,556	5.48	28,569
2017	1,500,267.33	975,174	965,390	534,877	5.65	94,668
2018	1,558,325.68	960,864	951,223	607,103	5.91	102,725
2019	1,032,997.81	596,246	590,264	442,734	6.23	71,065
2020	2,146,933.08	1,140,021	1,128,583	1,018,350	6.62	153,829
2021	873,622.60	416,805	412,623	461,000	7.12	64,747
2022	1,890,802.03	788,275	780,366	1,110,436	7.69	144,400
2023	1,881,963.94	659,817	653,196	1,228,768	8.34	147,334
2024	322,414.65	90,147	89,243	233,172	9.02	25,851
2025	91,105.71	18,631	18,444	72,662	9.72	7,476
2026	1,283,342.59	160,418	158,808	1,124,535	10.50	107,099
2027	1,565,743.39	65,918	65,257	1,500,486	11.38	131,853
	18,451,516.64	9,207,673	9,115,311	9,336,206		1,266,292

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.40 6.86

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2009	7,129.75	7,130	7,130			
2010	429,101.53	429,102	429,102			
2011	2,881,557.92	2,881,558	2,881,558			
2012	680,696.36	680,696	680,696			
2013	605,604.08	585,419	414,565	191,039	1.00	191,039
2014	542,747.60	488,473	345,913	196,835	1.50	131,223
2015	852,142.87	710,116	502,870	349,273	2.50	139,709
2016	429,507.80	329,291	233,188	196,320	3.50	56,091
2017	508,234.56	355,764	251,935	256,300	4.50	56,956
2018	980,642.79	621,070	439,811	540,832	5.50	98,333
2019	471,715.56	267,307	189,294	282,422	6.50	43,450
2020	956,855.10	478,428	338,799	618,056	7.50	82,407
2021	3,740,446.57	1,620,848	1,147,805	2,592,642	8.50	305,017
2022	291,917.98	107,038	75,799	216,119	9.50	22,749
2023	1,033,024.80	309,907	219,461	813,564	10.50	77,482
2024	454.84	106	75	380	11.52	33
2026	2,607,322.67	260,732	184,638	2,422,685	13.50	179,458
2027	3,172,119.17	105,727	74,871	3,097,248	14.50	213,603
	20,191,221.95	10,238,712	8,417,510	11,773,712		1,597,550

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.40 7.91

SURVIVOR CURVE.. 18-SQUARE
NET SALVAGE PERCENT: 0

2017	16,889,405.25	9,852,097	10,631,454	6,257,951	7.50	834,393
2022	28,346.42	8,662	9,347	18,999	12.50	1,520
2023	32,077.26	8,019	8,654	23,423	13.50	1,735
2026	176.23	15	16	160	16.00	10
	16,950,005.16	9,868,793	10,649,471	6,300,534		837,658

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.50 4.94

SURVIVOR CURVE.. 25-SQUARE
NET SALVAGE PERCENT: 0

2007	11,500.91	9,431	2,428	9,073	4.50	2,016
2011	13,689.76	9,035	2,325	11,365	8.50	1,337
2012	3,464.31	2,148	553	2,911	9.51	306
	28,654.98	20,614	5,306	23,349		3,659

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.40 12.77

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2006	19,064.97	19,065	19,065			
2007	28,520.45	28,520	28,520			
2008	9,318.53	9,319	9,319			
2009	2,828.57	2,829	2,829			
2010	20,477.89	20,478	20,478			
2011	10,677.92	10,678	10,678			
2012	994.12	994	994			
2013	117,998.16	114,065	25,316	92,682	1.00	92,682
2014	103,916.69	93,525	20,757	83,160	1.50	55,440
2015	28,858.88	24,049	5,337	23,522	2.50	9,409
2016	78,723.43	60,355	13,395	65,328	3.50	18,665
2018	79,676.79	50,462	11,200	68,477	5.50	12,450
2019	33,371.32	18,911	4,197	29,174	6.50	4,488
2020	23,754.88	11,877	2,636	21,119	7.50	2,816
2021	44,041.90	19,085	4,236	39,806	8.50	4,683
2022	2,508.60	920	204	2,305	9.49	243
2023	25,369.24	7,611	1,689	23,680	10.50	2,255
2026	2,653.19	265	59	2,594	13.51	192
	632,755.53	493,008	180,909	451,847		203,323

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 2.20 32.13

SURVIVOR CURVE.. 15-SQUARE
NET SALVAGE PERCENT: 0

2018	46,650.00	29,545	42,095	4,555	5.50	828
2019	8,235.82	4,667	6,649	1,587	6.50	244
	54,885.82	34,212	48,744	6,142		1,072

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.70 1.95

**PART III. EXPERIENCED AND
ESTIMATED NET SALVAGE**

2023	TRANSACTION YEAR		
303.00	16,339,592		
325.04	853		
332.00	161,325	2,544,899	(2,544,899)
334.00	286		
337.00	27,305		
352.02		181,890	(181,890)
354.01	86,119		
366.01	4,072		
367.00	96,916	1,774	(1,774)
369.00	4,814		
375.00	15,577		
376.00	6,064,305	8,652,109	(8,652,109)
378.00	264,921	4,928	(4,928)
380.00	3,762,326	743,999	(743,999)
381.00	1,670,355		
382.00		1,178	(1,178)
385.00	527		
390.00	1,595,344		
391.01	10,607		
391.02	2,451,171		
391.03	182,868		
392.01	30,168		
392.02	6,884,873		
394.00	191,545		
396.00	1,482,124		
397.02	183,962		
397.20	114,223		
TOTAL	41,626,178	12,130,777	(12,130,777)
2024	TRANSACTION YEAR		
303.00	15,875,601		
325.04	834		
332.00	189,953	12,327	(12,327)
333.00	230,478		
334.00	378		
351.00		178,852	(178,852)
352.01	2,289	284,716	(284,716)
353.01	43,751		
367.00	841,375	35,301	(35,301)
369.00	21,533	378,692	(378,692)
375.00	3,984	671	(671)
376.00	7,669,667	6,640,588	(6,640,588)
378.00	195,349	94,523	(94,523)
380.00	2,581,364	1,122,598	(1,122,598)
381.00	3,834,041		
382.00	5,895,137		
385.00	1,284		
387.00	303,093		
390.00	140,442		
391.01	15,372		
391.02	4,797,044		
391.03	38,196		
392.01	31,026		
392.02	11,550,342	8,391,000	8,391,000
393.00	5,438		

394.00	191,869			
396.00	615,887			
397.02	897,585			
397.20	277,732			
TOTAL	56,251,045	8,748,267	8,391,000	(357,267)

2025 TRANSACTION YEAR

303.01	3,705,100			
303.02	21,442,054			
330.00	7			
331.00	24			
332.00	184,725	4,320		(4,320)
333.00	56			
334.00	2,037			
351.00		471,802		(471,802)
352.01	84,049	2,280,536		(2,280,536)
352.02	51,018			
353.01	20,132			
354.01	1,526			
355.00	4,589			
367.00	424,833	57,068		(57,068)
369.00	32,540	1,824,637		(1,824,637)
375.01	568			
375.31	157			
375.32	1,194			
376.01	4,575,938	4,598,591		(4,598,591)
376.02	2,108,060			
378.00	309,406	(28,955)		28,955
380.00	4,259,738	11,295,684		(11,295,684)
381.00	14,268,296			
382.00	11,092,985	(79,096)		79,096
385.00	4,815			
387.00	26,550			
390.00	321,911			
392.02	4,563,447	(84,065)	1,864,607	1,948,672
392.03	836,503			
396.00	373,616			
TOTAL	68,695,875	20,340,522	1,864,607	(18,475,914)

2026 TRANSACTION YEAR

332.00	272,107	136,054	2,709	(133,345)
333.00	1,543,899	771,950		(771,950)
334.00	907	453		(453)
352.01	86,466	43,233		(43,233)
367.00	122,889	24,600	551	(24,049)
368.00	337,644			
369.00	51,598	25,799		(25,799)
376.01	4,408,085	2,204,043	11,564	(2,192,479)
378.00	933,485	140,023		(140,023)
380.00	4,922,703	2,461,351		(2,461,351)
382.00	9,977,420	82,812		(82,812)
385.00	165			
392.02	7,071,333	(17,648)	1,414,267	1,431,914
396.00	841,416			
397.02	4,199,990		5,987	5,987
TOTAL	34,770,106	5,872,670	1,435,077	(4,437,592)

2027	TRANSACTION YEAR			
332.00	1,121,603	560,801	11,166	(549,635)
333.00	226,269	113,135		(113,135)
334.00	1,984	992		(992)
352.01	123,350	61,675		(61,675)
367.00	137,620	27,548	617	(26,931)
368.00	11,173			
369.00	110,508	55,254		(55,254)
376.01	5,075,564	2,537,782	13,315	(2,524,467)
378.00	999,053	149,858		(149,858)
380.00	5,722,871	2,861,435		(2,861,435)
382.00	11,791,496	97,868		(97,868)
392.02	7,405,562	(18,482)	1,481,112	1,499,594
396.00	970,761			
397.02	1,254,886		1,789	1,789
TOTAL	34,952,700	6,447,868	1,508,000	(4,939,868)
TOTAL	236,295,905	53,540,104	13,198,684	(40,341,420)