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January 11, 2023

**VIA E-FILING**

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2<sup>nd</sup> Floor  
Harrisburg, PA 17120

**Re: Completed Restoration of Momentary and Sustained Interruptions –  
West Penn Power Company; Docket No. M-2021-3023564**

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 67.1, West Penn Power Company (“West Penn”) submits written notification of completed restoration efforts following storm conditions that began on December 22, 2022 that caused multiple service interruptions in the West Penn service territory.

Attached please find the details relative to the impact of this recent outage event and the restoration activities that took place. It should be noted that the review and approval process of this outage information is still in progress at the time of filing this report and as such, all outage information contained in this report should be considered preliminary.

If you have any questions, please contact me at (610) 212-8331.

Sincerely,



Darsh Singh

Enclosures

c: Dan Searfoorce - PaPUC Bureau of Technical Utility Services (via electronic mail)  
Derek Ruhl - PaPUC Bureau of Technical Utility Services (via electronic mail)  
John Van Zant - PaPUC Bureau of Technical Utility Services (via electronic mail)  
Harry Bidelspach – PaPUC Bureau of Technical Utility Services (via electronic mail)

ELECTRIC UTILITY REPORT OF OUTAGE TO  
PENNSYLVANIA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU  
P O BOX 3265  
HARRISBURG, PA 17105-3265

1. Reporting Utility: West Penn Power Company ("West Penn")  
Address: 800 Cabin Hill Road  
Greensburg, PA 15601

2. Name and title of person making report:

Scott Wyman                      President, Pennsylvania Operations  
*(Name)*                                      *(Title)*

3. Telephone number: (724) 838-6150  
*(Telephone Number)*

4. Date and time report was made to Commission:

December 23, 2022                                      1158  
*(Date)*    *(Time)*

5. Interruption or Outage:

(a) Number of customers affected: 47,192 (Represents 6.5% of West Penn's total customers).

(b) Approximate number of outage cases and trouble cases for each county affected during event: See response to 5(c).

(c) Approximate number of outages for each county affected during the event:

County	Outages	Outage Cases	Trouble Cases
Adams	264	14	0
Allegheny	7,667	45	7
Armstrong	1,733	46	1
Bedford	754	8	0
Butler	4,621	4	6
Cameron	41	53	0
Centre	3,958	3	3
Clarion	438	31	0
Clinton	768	11	0
Elk	552	2	0
Fayette	1,337	10	3
Franklin	2,346	39	5
Fulton	71	43	0
Greene	7,166	8	2
Indiana	154	18	1
Lycoming	1	1	0
McKean	3	1	0
Washington	6,667	1	9
Westmoreland	8,651	94	18
<b>Total</b>	<b>47,192</b>	<b>586</b>	<b>55</b>

(d) Approximate number of outage cases exceeding 6 or more hours in duration: 366

(e) A listing of each outage case exceeding 6 or more hours in duration:  
See Attachment A.

(d) Reason for the interruption or outages: Beginning Thursday morning, December 22, 2022, Winter Storm Elliott, producing a wintry mix of snow and ice along with high wind gusts, moved from west to east across Pennsylvania including the West Penn service territory. Wind gusts up to 69 miles per hour were experienced in the West Penn service territory on December 23, 2022. See Attachment B for the maximum wind gusts for December 23 and 24, 2022 and 24-hour total precipitation for December 22 and 23, 2022.

Damage as a result of the high winds included downed trees/power lines, damaged and broken poles/crossarms, and damaged equipment. Charleroi, Jeannette, Arnold, Butler, State College, and Waynesboro were the hardest hit areas. Approximately 42% of the total outages that occurred were tree related. Wind speeds, which occasionally exceeded safe work ratings for the aerial lifts combined with subzero temperatures and dangerous wind chills hampered restoration efforts. See Attachment B for the maximum and

minimum temperatures for December 23 and 24.

Preliminary data indicate the reliability impact of the storm was 21.5 minutes of SAIDI, 0.07 of SAIFI, and an overall storm CAIDI of 329.6 minutes.

- (g) Projected time of restoration: It was estimated that the majority of customers would be restored by 2300 on December 24, 2022.

See Attachment C for the restoration curve and Attachment D for the order restoration graphs.

- (h) The number of utility workers, contract workers, and workers received as mutual aid assigned specifically to the repair work by general function:

Company	# of Workers	General Function
West Penn Power	203	Line Workers
<b>Subtotal</b>	<b>203</b>	<b>Line Workers</b>
CW Wright Construction	13	Line Contractor
JW Didado	3	Line Contractor
NG Gilbert	5	Line Contractor
Penn Line	6	Line Contractor
Thompson Electric	12	Line Contractor
<b>Subtotal</b>	<b>39</b>	<b>Line Contractor</b>
Asplundh	139	Forestry Contractor
Davey Tree	8	Forestry Contractor
Pennline	108	Forestry Contractor
Townsend	13	Forestry Contractor
<b>Subtotal</b>	<b>268</b>	<b>Forestry Contractor</b>
West Penn Power	29	Hazard Responders
FirstEnergy Service Co.	35	Hazard Responders
<b>Subtotal</b>	<b>64</b>	<b>Hazard Responders</b>
West Penn Power	145	Supporting Roles
FirstEnergy Service Co.	100	Supporting Roles
Contractors (Various)	3	Supporting Roles
<b>Subtotal</b>	<b>248</b>	<b>Supporting Roles</b>
<b>Grand Total</b>	<b>822</b>	

- (i) The date and time of the first information of a service interruption: December 23, 2022 at 0515.

- (j) The date and time that repair crews were assembled: December 23, 2022 at 0600.
- (k) The actual time that service was restored to the last affected customer: December 27, 2022 at 0924.
- (l) A general description of the physical damage sustained by the utility facilities as a result of the interruption/outage:

<b>Equipment</b>	<b>Number</b>
Crossarms Replaced	83
Cutouts Replaced	93
Poles Replaced	26
Transformers Replaced	71
Wire & Cable Replaced (feet)	47,688

- (m) If the interruption/outage event was weather-related, the utility's weather reports, outlooks, or scenarios for the day before and the day of the interruption/outage event:

See Attachment E for the weather forecast reports.

- (n) If the interruption/outage event caused approximate outages that exceed 10% or more of the number of customers in the utility's entire service territory, rank the event in terms of the number and duration of outages and provide 2 comparable events, including the number and duration of outages for those comparable events.

The outages that were a result of this event did not exceed 10% or more of customers in the utility's entire service territory.

Remarks: The storm statistics contained in this report are preliminary. The review and approval of the storm statistics were still in progress as of the time this report was filed.

**Attachment A: A listing of each outage case exceeding six or more hours in duration, including the following information<sup>1</sup>:**

<b>Order #</b>	<b>Approximate Location (County)</b>	<b>Total Number of Customers Affected</b>	<b>Duration of the Outage (minutes)</b>	<b>Initial Date and Time of the Outage</b>	<b>Restoration Date and Time</b>
121463	Armstrong	2	5,607	12/23/2022 1157	12/27/2022 0924
112932	Bedford	1	4,636	12/23/2022 1339	12/26/2022 1855
105919	Washington	1	3,576	12/23/2022 0649	12/25/2022 1825
105505	Westmoreland	2	3,571	12/23/2022 0617	12/25/2022 1748
115183	Armstrong	4	3,428	12/23/2022 0727	12/25/2022 1635
114207	Westmoreland	2	3,384	12/23/2022 0636	12/25/2022 1500
106781	Armstrong	1	3,340	12/23/2022 0748	12/25/2022 1528
105656	Armstrong	3	3,325	12/23/2022 0625	12/25/2022 1350
108881	Washington	14	3,319	12/23/2022 0956	12/25/2022 1715
105798	Washington	1	3,302	12/23/2022 0639	12/25/2022 1341
106347	Westmoreland	4	3,285	12/23/2022 0715	12/25/2022 1400
105962	Butler	1	3,280	12/23/2022 0652	12/25/2022 1332
110383	Allegheny	1	3,275	12/23/2022 0627	12/25/2022 1302
120256	Washington	1	3,262	12/24/2022 0738	12/26/2022 1400
107665	Centre	2	3,245	12/23/2022 0839	12/25/2022 1444
113328	Bedford	8	3,244	12/23/2022 0956	12/25/2022 1600
110042	Fulton	1	3,179	12/23/2022 1048	12/25/2022 1547
109846	Bedford	1	3,174	12/23/2022 1041	12/25/2022 1535
107532	Armstrong	1	3,136	12/23/2022 0832	12/25/2022 1248
106549	Westmoreland	12	3,126	12/23/2022 0727	12/25/2022 1133
109964	Adams	1	3,090	12/23/2022 1043	12/25/2022 1413
120816	Westmoreland	21	3,075	12/23/2022 0754	12/25/2022 1109
113524	Armstrong	1	3,041	12/23/2022 1426	12/25/2022 1707
113731	Centre	1	3,005	12/23/2022 0928	12/25/2022 1133
112081	Armstrong	3	2,997	12/23/2022 0900	12/25/2022 1057
110267	Fayette	2	2,992	12/23/2022 0606	12/25/2022 0758
112054	Allegheny	5	2,988	12/23/2022 1241	12/25/2022 1429
123154	Centre	5	2,968	12/23/2022 0900	12/25/2022 1028
116515	Armstrong	1	2,958	12/23/2022 0812	12/25/2022 0930
108131	Fulton	2	2,929	12/23/2022 0911	12/25/2022 1000
119515	Allegheny	3	2,922	12/23/2022 1635	12/25/2022 1717

<sup>1</sup> When applicable, the individual restoration steps for an order are provided for those customers that were out of service for 6 hours or more.

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Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
113436	Allegheny	1	2,904	12/23/2022 1418	12/25/2022 1442
106543	Butler	3	2,898	12/23/2022 0727	12/25/2022 0745
124120	Washington	3	2,889	12/23/2022 1006	12/25/2022 1015
113428	Clarion	1	2,878	12/23/2022 0836	12/25/2022 0834
110169	Franklin	1	2,867	12/23/2022 1056	12/25/2022 1043
108226	Centre	5	2,863	12/23/2022 0917	12/25/2022 0900
112112	Washington	12	2,840	12/23/2022 1244	12/25/2022 1204
110823	Washington	4	2,811	12/23/2022 1134	12/25/2022 1025
117668	Franklin	4	2,778	12/23/2022 2042	12/25/2022 1900
108864	Westmoreland	4	2,775	12/23/2022 0655	12/25/2022 0510
114430	Washington	2	2,749	12/23/2022 1541	12/25/2022 1330
116613	Armstrong	1	2,688	12/23/2022 1850	12/25/2022 1538
111884	Westmoreland	1	2,623	12/23/2022 0742	12/25/2022 0325
116966	Armstrong	1	2,555	12/23/2022 1930	12/25/2022 1405
118304	Washington	4	2,547	12/23/2022 2213	12/25/2022 1640
114787	Franklin	1	2,479	12/23/2022 1610	12/25/2022 0929
112567	Westmoreland	1	2,457	12/23/2022 1803	12/25/2022 1100
112913	Butler	4	2,378	12/23/2022 1338	12/25/2022 0516
114063	Allegheny	9	2,332	12/23/2022 0643	12/24/2022 2135
119275	Westmoreland	1	2,326	12/24/2022 0334	12/25/2022 1820
120916	Franklin	1	2,296	12/23/2022 2220	12/25/2022 1236
122881	Armstrong	3	2,268	12/23/2022 0942	12/24/2022 2330
122889	Armstrong	27	2,234	12/23/2022 0656	12/24/2022 2010
114898	Washington	5	2,214	12/23/2022 0516	12/24/2022 1810
116376	Butler	11	2,186	12/23/2022 1329	12/25/2022 0155
118173	Washington	1	2,182	12/23/2022 1202	12/25/2022 0024
106110	Westmoreland	3	2,152	12/23/2022 0703	12/24/2022 1855
107790	Fulton	8	2,148	12/23/2022 0847	12/24/2022 2035
108292	Adams	2	2,148	12/23/2022 0920	12/24/2022 2108
105853	Butler	2	2,143	12/23/2022 0643	12/24/2022 1826
105844	Washington	2	2,133	12/23/2022 0642	12/24/2022 1815
122315	Butler	7	2,129	12/23/2022 0726	12/24/2022 1855
115561	Armstrong	4	2,125	12/23/2022 0635	12/24/2022 1800
122745	Westmoreland	1	2,106	12/23/2022 0800	12/24/2022 1906
119145	Westmoreland	1	2,097	12/23/2022 0653	12/24/2022 1750
119147	Westmoreland	1	2,096	12/23/2022 0653	12/24/2022 1749
112681	Washington	4	2,093	12/23/2022 0700	12/24/2022 1753

## West Penn Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
105725	Westmoreland	31	2,092	12/23/2022 0633	12/24/2022 1725
119142	Westmoreland	1	2,087	12/23/2022 0653	12/24/2022 1740
113568	Westmoreland	2	2,084	12/23/2022 0651	12/24/2022 1735
111839	Washington	3	2,078	12/23/2022 1250	12/24/2022 2328
113272	Armstrong	10	2,045	12/23/2022 0635	12/24/2022 1640
107324	Butler	3	2,006	12/23/2022 0619	12/24/2022 1545
120898	Centre	7	1,986	12/23/2022 0914	12/24/2022 1820
120262	Centre	3	1,985	12/23/2022 0940	12/24/2022 1845
108044	Washington	5	1,981	12/23/2022 0909	12/24/2022 1810
116522	Butler	3	1,976	12/23/2022 1839	12/25/2022 0335
116191	Butler	7	1,967	12/23/2022 0548	12/24/2022 1435
114546	Franklin	8	1,960	12/23/2022 1049	12/24/2022 1929
106170	Westmoreland	6	1,951	12/23/2022 0706	12/24/2022 1537
121089	Westmoreland	2	1,945	12/23/2022 0929	12/24/2022 1754
106560	Washington	1	1,941	12/23/2022 0729	12/24/2022 1550
119243	Allegheny	2	1,940	12/24/2022 0308	12/25/2022 1128
106773	Westmoreland	1	1,940	12/23/2022 0747	12/24/2022 1607
112786	Westmoreland	5	1,936	12/23/2022 1329	12/24/2022 2145
105394	Westmoreland	1	1,928	12/23/2022 0607	12/24/2022 1415
109520	Franklin	2	1,917	12/23/2022 1028	12/24/2022 1825
109188	Butler	29	1,913	12/23/2022 1007	12/24/2022 1800
109289	Butler	8	1,874	12/23/2022 0716	12/24/2022 1430
105199	Westmoreland	3	1,859	12/23/2022 0550	12/24/2022 1249
112384	Franklin	19	1,856	12/23/2022 0950	12/24/2022 1646
120896	Armstrong	2	1,856	12/24/2022 0919	12/25/2022 1615
105764	Allegheny	44	1,854	12/23/2022 0636	12/24/2022 1330
110113	Adams	2	1,847	12/23/2022 1053	12/24/2022 1740
106588	Westmoreland	1	1,830	12/23/2022 0730	12/24/2022 1400
123547	Franklin	2	1,819	12/24/2022 1921	12/26/2022 0140
122034	Franklin	20	1,817	12/23/2022 0953	12/24/2022 1610
105422	Allegheny	9	1,816	12/23/2022 0610	12/24/2022 1226
106757	Franklin	5	1,813	12/23/2022 0730	12/24/2022 1343
114401	Franklin	2	1,812	12/23/2022 1038	12/24/2022 1650
108007	Armstrong	2	1,801	12/23/2022 0903	12/24/2022 1504
105735	Westmoreland	3	1,796	12/23/2022 0634	12/24/2022 1230
106353	Westmoreland	3	1,784	12/23/2022 0716	12/24/2022 1300
122608	Allegheny	1	1,780	12/23/2022 1005	12/24/2022 1545

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Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
123434	Fulton	4	1,775	12/23/2022 1234	12/24/2022 1809
110074	Fulton	4	1,775	12/23/2022 1234	12/24/2022 1809
107656	Westmoreland	5	1,760	12/23/2022 0605	12/24/2022 1125
119730	Franklin	1	1,758	12/24/2022 0612	12/25/2022 1130
106622	Butler	5	1,757	12/23/2022 0733	12/24/2022 1250
111906	Westmoreland	1	1,755	12/23/2022 1230	12/24/2022 1745
114284	Westmoreland	1	1,741	12/23/2022 1529	12/24/2022 2030
114237	Westmoreland	11	1,734	12/23/2022 0706	12/24/2022 1200
108465	Adams	1	1,726	12/23/2022 0931	12/24/2022 1417
124540	Armstrong	1	1,711	12/24/2022 1259	12/25/2022 1730
121248	Butler	15	1,704	12/23/2022 0717	12/24/2022 1141
111975	Westmoreland	2	1,694	12/23/2022 1236	12/24/2022 1650
113232	Fayette	5	1,694	12/23/2022 1031	12/24/2022 1445
109326	Butler	6	1,692	12/23/2022 1018	12/24/2022 1430
113539	Westmoreland	3	1,682	12/23/2022 1428	12/24/2022 1830
112429	Franklin	5	1,672	12/23/2022 0908	12/24/2022 1300
115302	Clarion	141	1,659	12/23/2022 1655	12/24/2022 2034
113185	Allegheny	1	1,652	12/23/2022 1353	12/24/2022 1725
106315	Westmoreland	14	1,637	12/23/2022 0713	12/24/2022 1030
118456	Westmoreland	1	1,637	12/24/2022 0853	12/25/2022 1210
112246	Washington	24	1,636	12/23/2022 1028	12/24/2022 1344
105555	Allegheny	2	1,623	12/23/2022 0619	12/24/2022 0922
105301	Westmoreland	8	1,622	12/23/2022 0558	12/24/2022 0900
108622	Butler	22	1,617	12/23/2022 0938	12/24/2022 1235
106508	Clarion	25	1,617	12/23/2022 0725	12/24/2022 1022
122421	Westmoreland	2	1,612	12/24/2022 1338	12/25/2022 1630
107912	Centre	4	1,594	12/23/2022 0856	12/24/2022 1130
111654	Washington	6	1,588	12/23/2022 1212	12/24/2022 1440
108837	Franklin	5	1,586	12/23/2022 0953	12/24/2022 1219
113935	Adams	4	1,584	12/23/2022 1504	12/24/2022 1728
121079	Westmoreland	1	1,583	12/24/2022 0951	12/25/2022 1214
120300	Cameron	3	1,583	12/23/2022 0902	12/24/2022 1125
106013	Westmoreland	4	1,578	12/23/2022 0655	12/24/2022 0913
113788	Butler	1	1,578	12/23/2022 1452	12/24/2022 1710
110153	Westmoreland	13	1,575	12/23/2022 1055	12/24/2022 1310
106184	Butler	41	1,568	12/23/2022 0706	12/24/2022 0914
107000	Lycoming	1	1,566	12/23/2022 0804	12/24/2022 1010

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Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
113907	Westmoreland	3	1,557	12/23/2022 1503	12/24/2022 1700
106081	Westmoreland	2	1,552	12/23/2022 0653	12/24/2022 0845
107700	Centre	9	1,549	12/23/2022 0841	12/24/2022 1030
113472	Washington	7	1,548	12/23/2022 1422	12/24/2022 1610
121448	Armstrong	18	1,544	12/23/2022 1046	12/24/2022 1230
112944	Allegheny	15	1,528	12/23/2022 0752	12/24/2022 0920
106854	Westmoreland	3	1,507	12/23/2022 0755	12/24/2022 0902
116963	Adams	1	1,488	12/23/2022 1930	12/24/2022 2018
109237	Armstrong	46	1,478	12/23/2022 1010	12/24/2022 1048
112325	Butler	81	1,473	12/23/2022 1257	12/24/2022 1330
112728	Centre	6	1,467	12/23/2022 1325	12/24/2022 1352
108879	Westmoreland	1	1,454	12/23/2022 0956	12/24/2022 1010
122235	Westmoreland	2	1,444	12/23/2022 1256	12/24/2022 1300
105525	Westmoreland	33	1,443	12/23/2022 0618	12/24/2022 0621
108391	Fayette	2	1,440	12/23/2022 0926	12/24/2022 0926
124364	Allegheny	2	1,435	12/24/2022 1140	12/25/2022 1135
121695	Franklin	3	1,426	12/24/2022 1134	12/25/2022 1120
112750	Washington	40	1,426	12/23/2022 1326	12/24/2022 1312
111199	Adams	1	1,420	12/23/2022 1150	12/24/2022 1130
120768	Allegheny	3	1,412	12/23/2022 1317	12/24/2022 1249
112882	Washington	5	1,405	12/23/2022 1335	12/24/2022 1300
113675	Franklin	60	1,392	12/23/2022 0908	12/24/2022 0820
122986	Washington	5	1,373	12/23/2022 1905	12/24/2022 1758
117484	Bedford	624	1,345	12/23/2022 2025	12/24/2022 1850
107951	Armstrong	10	1,326	12/23/2022 0729	12/24/2022 0535
111482	Westmoreland	7	1,311	12/23/2022 1205	12/24/2022 0956
121516	Franklin	145	1,310	12/23/2022 1255	12/24/2022 1045
109358	Franklin	19	1,304	12/23/2022 1020	12/24/2022 0804
122629	Armstrong	9	1,302	12/23/2022 1653	12/24/2022 1435
124581	Washington	1	1,273	12/25/2022 1400	12/26/2022 1113
112324	Franklin	13	1,263	12/23/2022 1257	12/24/2022 1000
116300	Franklin	4	1,262	12/23/2022 1818	12/24/2022 1520
117210	Westmoreland	1	1,260	12/23/2022 1945	12/24/2022 1645
117208	Westmoreland	7	1,260	12/23/2022 1945	12/24/2022 1645
123073	Greene	6	1,242	12/23/2022 2036	12/24/2022 1718
114715	Fayette	4	1,241	12/23/2022 1603	12/24/2022 1244
115123	Allegheny	10	1,239	12/23/2022 1635	12/24/2022 1314

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Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
124101	Butler	3	1,229	12/24/2022 1333	12/25/2022 1002
106380	Butler	1	1,226	12/23/2022 1351	12/24/2022 1017
124488	Washington	5	1,221	12/25/2022 1255	12/26/2022 0916
116680	Greene	1	1,218	12/23/2022 1857	12/24/2022 1515
116725	Washington	6	1,218	12/23/2022 1902	12/24/2022 1520
123305	Westmoreland	2	1,199	12/24/2022 1706	12/25/2022 1305
123232	Centre	1	1,197	12/24/2022 1633	12/25/2022 1230
117364	Greene	2	1,193	12/23/2022 2012	12/24/2022 1605
115449	Washington	3	1,190	12/23/2022 1710	12/24/2022 1300
116425	Franklin	3	1,190	12/23/2022 1830	12/24/2022 1420
124152	Allegheny	17	1,187	12/24/2022 1558	12/25/2022 1145
120584	Butler	5	1,182	12/23/2022 1324	12/24/2022 0906
122925	Butler	2	1,171	12/24/2022 1019	12/25/2022 0550
114694	Armstrong	53	1,170	12/23/2022 1600	12/24/2022 1130
119083	Armstrong	8	1,167	12/24/2022 0133	12/24/2022 2100
121382	Greene	71	1,166	12/23/2022 1514	12/24/2022 1040
112969	Washington	4	1,157	12/23/2022 1343	12/24/2022 0900
122671	Clarion	4	1,148	12/24/2022 1426	12/25/2022 0934
114480	Westmoreland	10	1,147	12/23/2022 0653	12/24/2022 0200
105640	Westmoreland	64	1,146	12/23/2022 0624	12/24/2022 0130
114541	Centre	2	1,135	12/23/2022 1550	12/24/2022 1045
120932	Washington	7	1,133	12/23/2022 1957	12/24/2022 1450
115915	Westmoreland	3	1,132	12/23/2022 1743	12/24/2022 1235
114482	Westmoreland	23	1,119	12/23/2022 1544	12/24/2022 1023
118198	Washington	481	1,109	12/23/2022 0723	12/24/2022 0152
105741	Westmoreland	8	1,108	12/23/2022 0634	12/24/2022 0102
107014	Butler	26	1,102	12/23/2022 0755	12/24/2022 0217
117789	Franklin	5	1,082	12/23/2022 2056	12/24/2022 1458
115262	Fayette	1	1,072	12/23/2022 1649	12/24/2022 1041
119233	Westmoreland	3	1,069	12/24/2022 0249	12/24/2022 2038
124253	Washington	2	1,066	12/24/2022 1908	12/25/2022 1254
124676	Greene	1	1,062	12/25/2022 1522	12/26/2022 0904
115038	Greene	12	1,061	12/23/2022 1609	12/24/2022 0950
123014	Westmoreland	5	1,055	12/24/2022 1536	12/25/2022 0911
114258	Franklin	9	1,046	12/23/2022 1524	12/24/2022 0850
125254	Centre	108	1,043	12/26/2022 0857	12/27/2022 0220
120508	Washington	49	1,037	12/23/2022 1829	12/24/2022 1146

West Penn Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
126068	Clinton	295	1,033	12/26/2022 0857	12/27/2022 0210
123107	Allegheny	5	1,020	12/24/2022 1600	12/25/2022 0900
125254	Centre	480	1,017	12/26/2022 0857	12/27/2022 0154
126068	Clinton	473	1,016	12/26/2022 0857	12/27/2022 0153
118066	Centre	6	1,005	12/23/2022 2130	12/24/2022 1415
123396	Armstrong	3	1,001	12/24/2022 1751	12/25/2022 1032
121668	Washington	11	995	12/23/2022 1935	12/24/2022 1210
114651	Centre	36	978	12/23/2022 0936	12/24/2022 0154
112916	Westmoreland	12	965	12/23/2022 1055	12/24/2022 0300
118140	Armstrong	12	960	12/23/2022 2137	12/24/2022 1337
121417	Washington	21	955	12/23/2022 1935	12/24/2022 1130
105494	Westmoreland	11	924	12/23/2022 0616	12/23/2022 2140
117391	Franklin	37	922	12/23/2022 1738	12/24/2022 0900
121152	Washington	20	895	12/23/2022 1935	12/24/2022 1030
115663	Centre	1	894	12/23/2022 1726	12/24/2022 0820
121098	Washington	15	888	12/23/2022 1957	12/24/2022 1045
108474	Washington	15	872	12/23/2022 0555	12/23/2022 2027
116748	Armstrong	46	850	12/23/2022 1905	12/24/2022 0915
123795	Westmoreland	1	849	12/24/2022 2236	12/25/2022 1245
115610	Westmoreland	59	848	12/23/2022 1054	12/24/2022 0102
120590	Washington	5	842	12/23/2022 1935	12/24/2022 0937
120844	Washington	4	837	12/23/2022 1957	12/24/2022 0954
121097	Washington	23	833	12/23/2022 1957	12/24/2022 0950
116421	Washington	33	826	12/23/2022 1830	12/24/2022 0816
115422	Washington	8	810	12/23/2022 1704	12/24/2022 0634
125123	Washington	7	810	12/25/2022 1933	12/26/2022 0903
112598	Westmoreland	1	810	12/23/2022 1316	12/24/2022 0246
105877	Butler	7	810	12/23/2022 0645	12/23/2022 2015
105909	Butler	5	807	12/23/2022 0648	12/23/2022 2015
122154	Westmoreland	1	806	12/24/2022 0154	12/24/2022 1520
105739	Westmoreland	12	806	12/23/2022 0634	12/23/2022 2000
118334	Greene	18	804	12/23/2022 2222	12/24/2022 1146
120591	Washington	52	798	12/23/2022 1935	12/24/2022 0853
122067	Washington	5	793	12/24/2022 1225	12/25/2022 0138
118040	Westmoreland	23	791	12/23/2022 2124	12/24/2022 1035
117022	Washington	33	773	12/23/2022 1935	12/24/2022 0828
117207	Washington	44	768	12/23/2022 1957	12/24/2022 0845

West Penn Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
105586	Westmoreland	1	759	12/23/2022 0621	12/23/2022 1900
119330	Butler	3	757	12/24/2022 0410	12/24/2022 1647
116903	Westmoreland	20	756	12/23/2022 1924	12/24/2022 0800
110906	Washington	7	743	12/23/2022 0515	12/23/2022 1738
106606	Westmoreland	11	738	12/23/2022 0732	12/23/2022 1950
118255	McKean	3	720	12/23/2022 2207	12/24/2022 1007
117856	Westmoreland	58	713	12/23/2022 2106	12/24/2022 0859
105182	Butler	286	710	12/23/2022 0548	12/23/2022 1738
105336	Greene	289	700	12/23/2022 0602	12/23/2022 1742
110264	Armstrong	299	694	12/23/2022 1103	12/23/2022 2237
118889	Westmoreland	9	691	12/24/2022 0009	12/24/2022 1140
109317	Westmoreland	7	689	12/23/2022 0731	12/23/2022 1900
114045	Centre	72	681	12/23/2022 0819	12/23/2022 1940
105867	Allegheny	21	676	12/23/2022 0644	12/23/2022 1800
105362	Allegheny	32	675	12/23/2022 0604	12/23/2022 1719
106892	Fayette	16	673	12/23/2022 0757	12/23/2022 1910
109329	Allegheny	125	668	12/23/2022 0610	12/23/2022 1718
115172	Westmoreland	13	668	12/23/2022 0645	12/23/2022 1753
105894	Armstrong	341	658	12/23/2022 0647	12/23/2022 1745
106119	Westmoreland	21	657	12/23/2022 0703	12/23/2022 1800
114892	Westmoreland	13	651	12/23/2022 0641	12/23/2022 1732
119116	Westmoreland	4	648	12/24/2022 0154	12/24/2022 1242
105870	Westmoreland	71	646	12/23/2022 0644	12/23/2022 1730
106569	Washington	1	646	12/23/2022 0729	12/23/2022 1815
116879	Westmoreland	20	646	12/23/2022 0644	12/23/2022 1730
105032	Washington	15	629	12/23/2022 0516	12/23/2022 1545
112982	Washington	71	624	12/23/2022 0611	12/23/2022 1635
107121	Armstrong	9	623	12/23/2022 0812	12/23/2022 1835
105707	Westmoreland	13	622	12/23/2022 0630	12/23/2022 1652
118282	Butler	25	619	12/23/2022 2210	12/24/2022 0829
118844	Washington	38	617	12/24/2022 0509	12/24/2022 1526
107663	Allegheny	25	591	12/23/2022 0839	12/23/2022 1830
107200	Westmoreland	11	572	12/23/2022 0625	12/23/2022 1557
112751	Westmoreland	34	571	12/23/2022 0731	12/23/2022 1702
108012	Elk	1	570	12/23/2022 0904	12/23/2022 1834
125897	Franklin	1	568	12/26/2022 0804	12/26/2022 1732
123757	Butler	2	567	12/24/2022 2220	12/25/2022 0747

West Penn Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
105836	Westmoreland	21	566	12/23/2022 0642	12/23/2022 1608
105622	Westmoreland	17	562	12/23/2022 0623	12/23/2022 1545
113419	Westmoreland	122	555	12/23/2022 0615	12/23/2022 1530
108084	Armstrong	94	554	12/23/2022 0901	12/23/2022 1815
105615	Washington	93	548	12/23/2022 0622	12/23/2022 1530
111925	Franklin	4	541	12/23/2022 1011	12/23/2022 1912
105266	Washington	37	538	12/23/2022 0556	12/23/2022 1454
118172	Washington	60	536	12/23/2022 1202	12/23/2022 2058
110486	Greene	256	534	12/23/2022 0651	12/23/2022 1545
111371	Washington	1	534	12/23/2022 1202	12/23/2022 2056
105970	Westmoreland	49	533	12/23/2022 0653	12/23/2022 1546
105689	Armstrong	27	532	12/23/2022 0628	12/23/2022 1520
106209	Westmoreland	31	528	12/23/2022 0708	12/23/2022 1556
106313	Westmoreland	16	528	12/23/2022 0712	12/23/2022 1600
106443	Westmoreland	8	519	12/23/2022 0721	12/23/2022 1600
105767	Westmoreland	159	519	12/23/2022 0636	12/23/2022 1515
105497	Armstrong	8	506	12/23/2022 0616	12/23/2022 1442
122423	Westmoreland	1	505	12/24/2022 1339	12/24/2022 2204
117358	Washington	1	500	12/24/2022 1024	12/24/2022 1844
119122	Westmoreland	2	497	12/23/2022 2313	12/24/2022 0730
107832	Westmoreland	9	495	12/23/2022 0850	12/23/2022 1705
107185	Clarion	13	495	12/23/2022 0816	12/23/2022 1631
108157	Clarion	22	492	12/23/2022 0913	12/23/2022 1725
111934	Franklin	19	492	12/23/2022 1011	12/23/2022 1823
125138	Allegheny	27	491	12/26/2022 0215	12/26/2022 1026
105940	Butler	9	485	12/23/2022 0650	12/23/2022 1455
111175	Westmoreland	39	481	12/23/2022 0615	12/23/2022 1416
105514	Westmoreland	238	467	12/23/2022 0618	12/23/2022 1405
106235	Clarion	27	466	12/23/2022 0709	12/23/2022 1455
113755	Adams	15	464	12/23/2022 1026	12/23/2022 1810
106958	Fayette	13	463	12/23/2022 0737	12/23/2022 1520
107732	Franklin	74	462	12/23/2022 0843	12/23/2022 1625
117054	Fayette	146	461	12/23/2022 1424	12/23/2022 2205
105159	Washington	530	459	12/23/2022 0541	12/23/2022 1320
114725	Westmoreland	3	456	12/23/2022 1604	12/23/2022 2340
119888	Washington	8	453	12/24/2022 0647	12/24/2022 1420
105824	Washington	36	451	12/23/2022 0641	12/23/2022 1412

West Penn Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
106063	Westmoreland	418	449	12/23/2022 0700	12/23/2022 1429
105947	Westmoreland	2	449	12/23/2022 0651	12/23/2022 1420
120755	Fayette	1	440	12/24/2022 0853	12/24/2022 1613
105143	Fayette	3	437	12/23/2022 0540	12/23/2022 1257
125148	Westmoreland	5	436	12/26/2022 0522	12/26/2022 1238
124097	Allegheny	2	430	12/25/2022 0826	12/25/2022 1536
112270	Armstrong	39	429	12/23/2022 0635	12/23/2022 1344
120785	Westmoreland	1	429	12/24/2022 0900	12/24/2022 1609
112481	Bedford	9	428	12/23/2022 1305	12/23/2022 2013
113429	Greene	71	427	12/23/2022 0703	12/23/2022 1410
113620	Butler	11	426	12/23/2022 0736	12/23/2022 1442
106483	Westmoreland	124	411	12/23/2022 0724	12/23/2022 1415
112625	Allegheny	28	407	12/23/2022 1317	12/23/2022 2004
107679	Armstrong	4	406	12/23/2022 0839	12/23/2022 1525
121952	Allegheny	2	399	12/24/2022 1207	12/24/2022 1846
117723	Clarion	141	399	12/23/2022 1655	12/23/2022 2334
106096	Greene	44	399	12/23/2022 0706	12/23/2022 1345
106392	Armstrong	106	398	12/23/2022 0717	12/23/2022 1355
117384	Westmoreland	5	389	12/23/2022 2014	12/24/2022 0243
109948	Bedford	11	389	12/23/2022 1042	12/23/2022 1711
121126	Clarion	48	386	12/24/2022 0959	12/24/2022 1625
107438	Allegheny	368	383	12/23/2022 1030	12/23/2022 1653
113399	Franklin	10	381	12/23/2022 1414	12/23/2022 2035
107240	Centre	1,365	378	12/23/2022 0819	12/23/2022 1437
107258	Centre	426	378	12/23/2022 0819	12/23/2022 1437
122585	Butler	7	377	12/24/2022 1115	12/24/2022 1732
105230	Washington	69	376	12/23/2022 0554	12/23/2022 1210
117544	Clarion	5	375	12/23/2022 2030	12/24/2022 0245
105026	Washington	41	375	12/23/2022 0515	12/23/2022 1130
114238	Washington	27	374	12/23/2022 0916	12/23/2022 1530
125095	Armstrong	5	374	12/26/2022 0816	12/26/2022 1430
111976	Adams	21	374	12/23/2022 1236	12/23/2022 1850
124443	Westmoreland	3	369	12/25/2022 1216	12/25/2022 1825
120768	Allegheny	12	368	12/23/2022 1317	12/23/2022 1925
108552	Centre	45	364	12/23/2022 0936	12/23/2022 1540
105816	Westmoreland	4	364	12/23/2022 0641	12/23/2022 1245
105274	Westmoreland	15	364	12/23/2022 0556	12/23/2022 1200

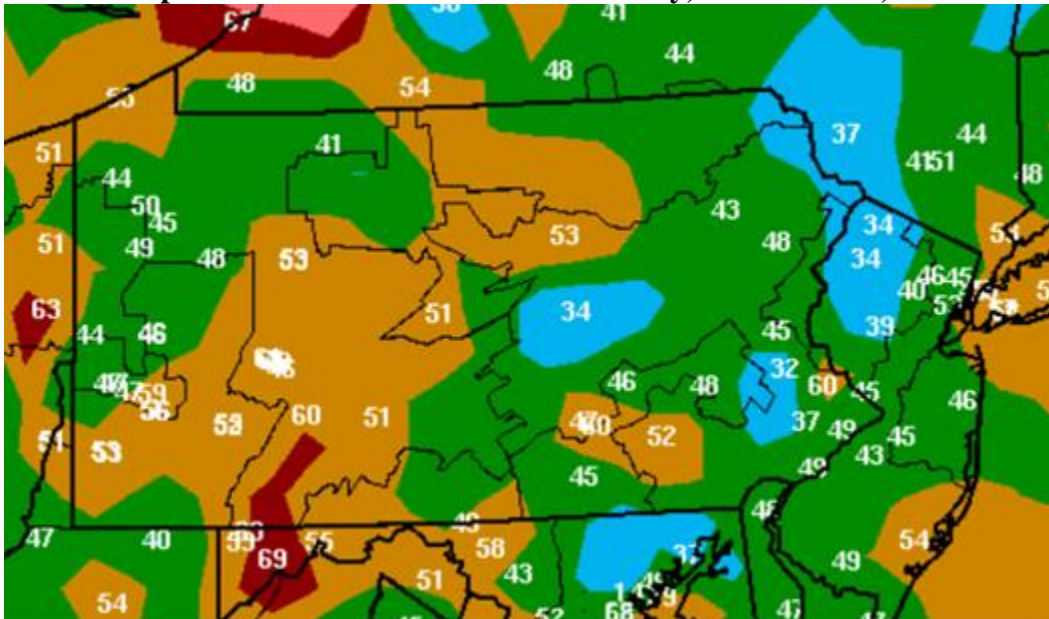
West Penn Storm Report

<b>Order #</b>	<b>Approximate Location (County)</b>	<b>Total Number of Customers Affected</b>	<b>Duration of the Outage (minutes)</b>	<b>Initial Date and Time of the Outage</b>	<b>Restoration Date and Time</b>
108039	Elk	9	362	12/23/2022 0905	12/23/2022 1507
125877	Centre	10	360	12/26/2022 1705	12/26/2022 2305

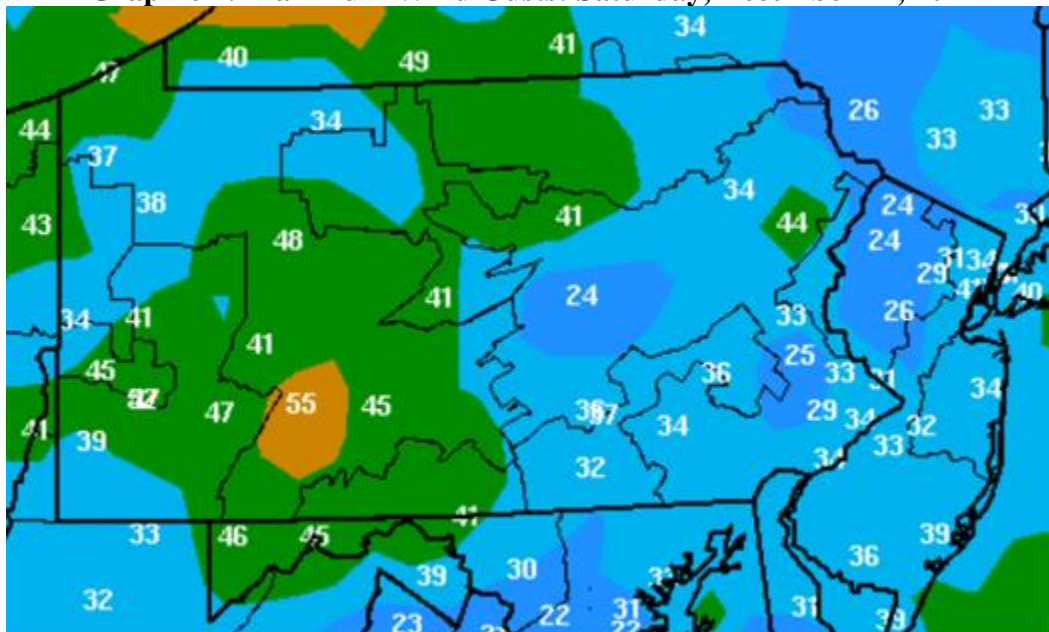
**Attachment B: Wind, Precipitation & Temperature Reports**

**Wind, Precipitation & Temperature Reports:** Graphics 1 and 2 illustrates the maximum wind gusts in the West Penn service territory on December 23 and 24, 2022. Graphics 3 and 4 illustrates the 24-Hour Total Precipitation in the West Penn service territory on December 22 and 23, 2022. Graphics 5 and 6 illustrates the maximum and minimum temperatures in the West Penn service territory on December 23 and 24, 2022. The graphics are from the National Oceanic and Atmospheric Administration (“NOAA”).

**Graphic 1: Maximum Wind Gusts: Friday, December 23, 2022**

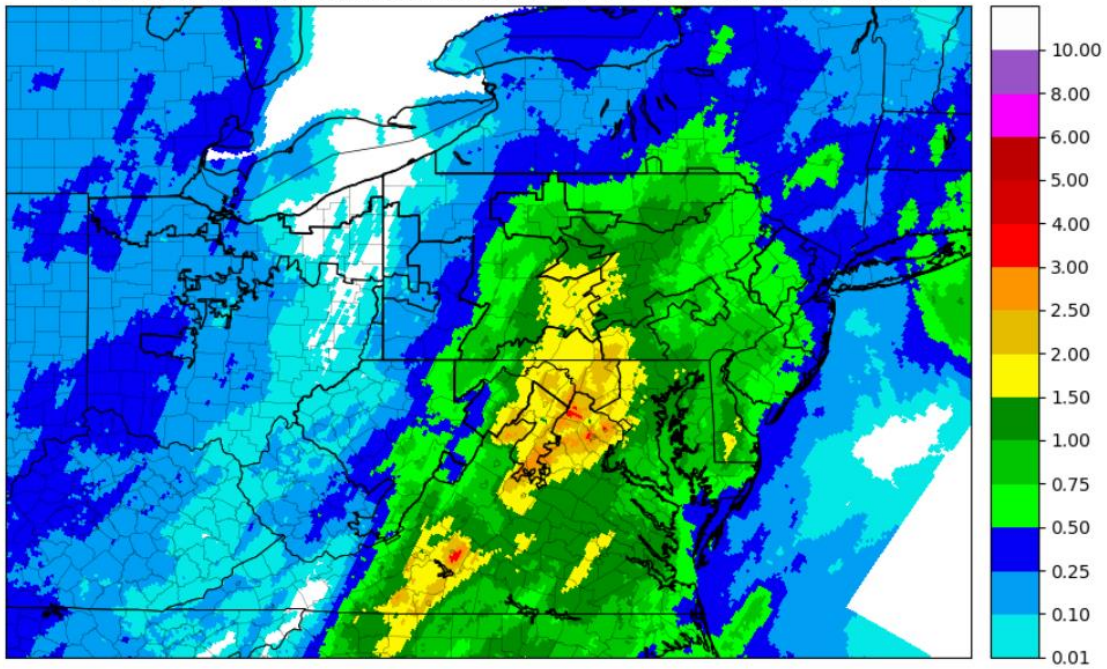


**Graphic 2: Maximum Wind Gusts: Saturday, December 24, 2022**



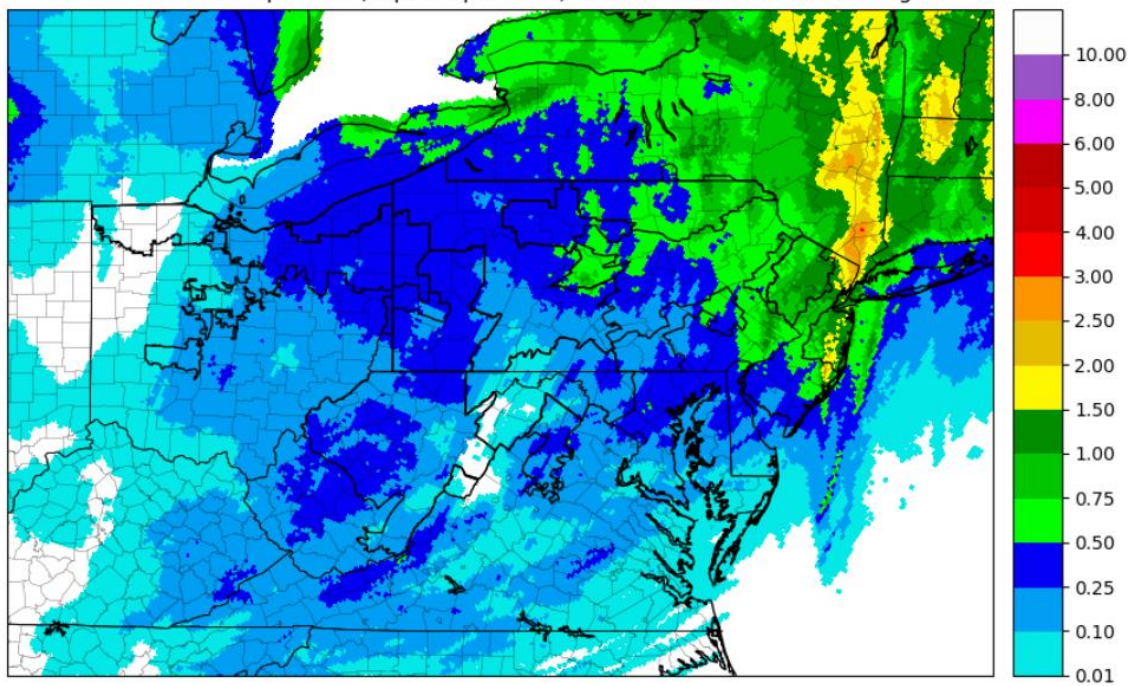
### Graphic 3: 24-Hour Total Precipitation: Thursday, December 22, 2022

24 Hour Total Precipitation (Liquid Equivalent) for 22 Dec 22 from NOAA Stage 4



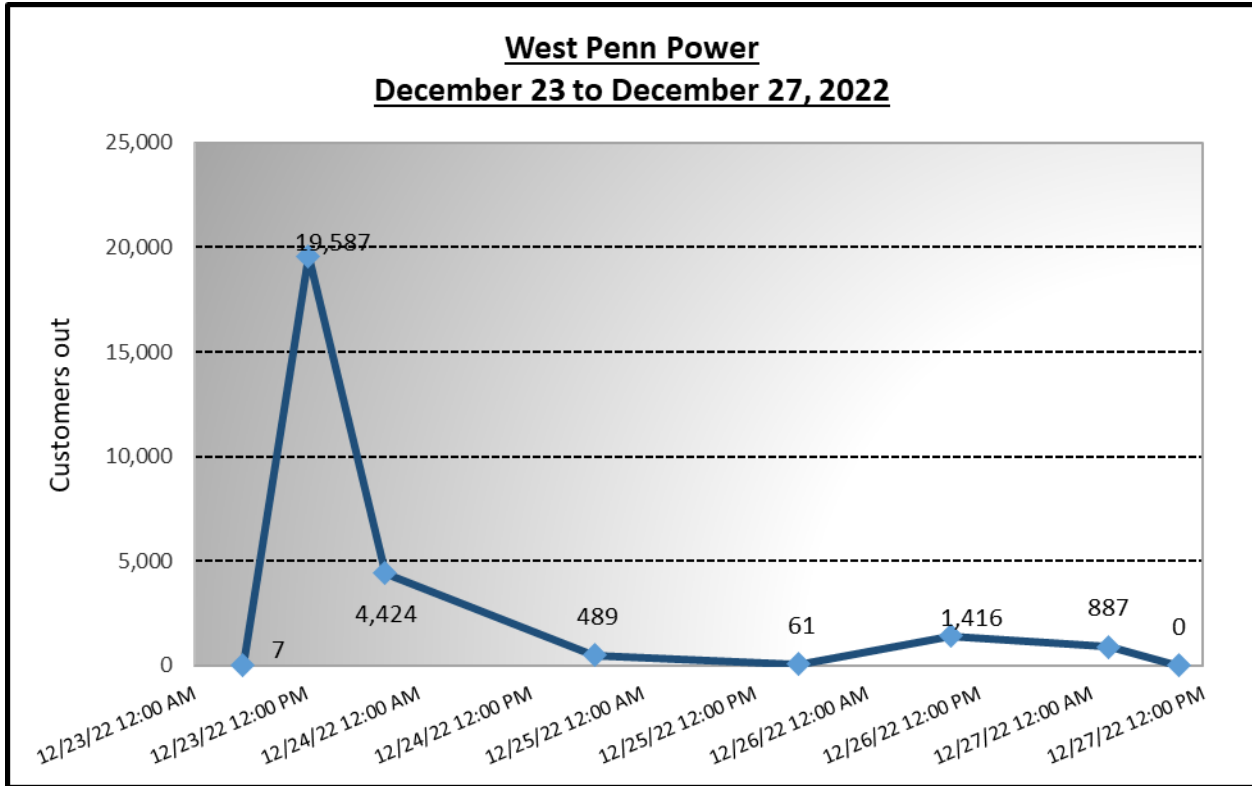
### Graphic 4: 24-Hour Total Precipitation: Friday, December 23, 2022

24 Hour Total Precipitation (Liquid Equivalent) for 23 Dec 22 from NOAA Stage 4

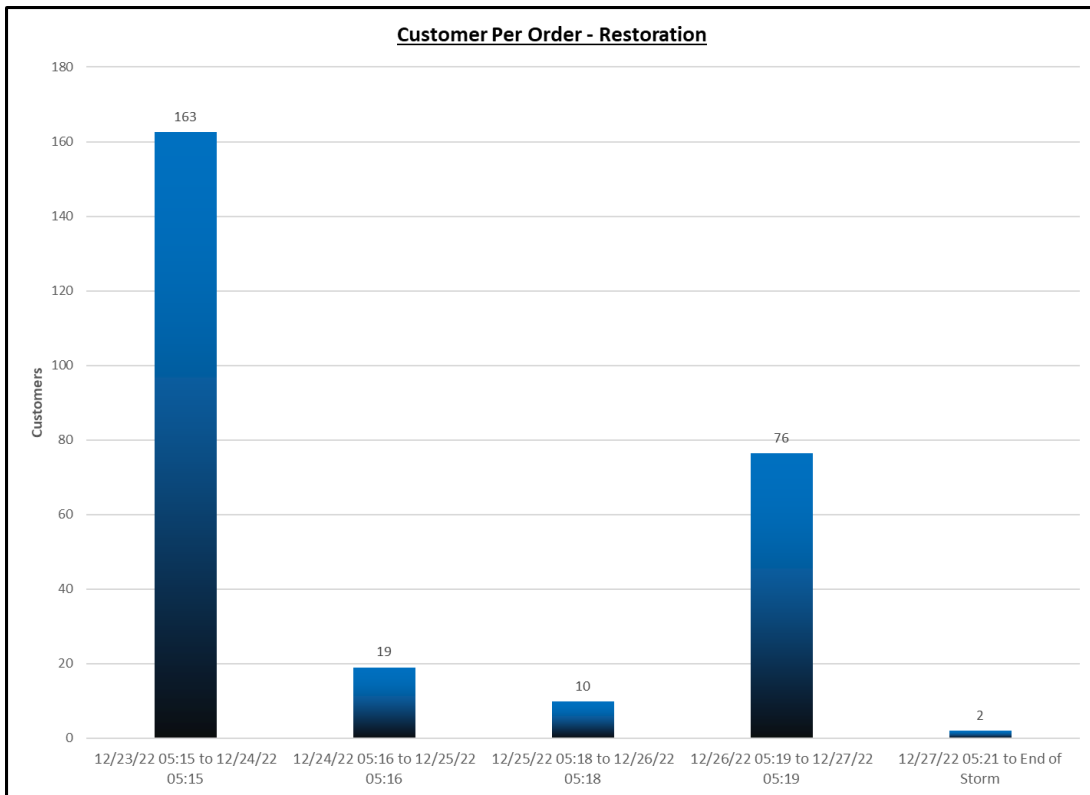
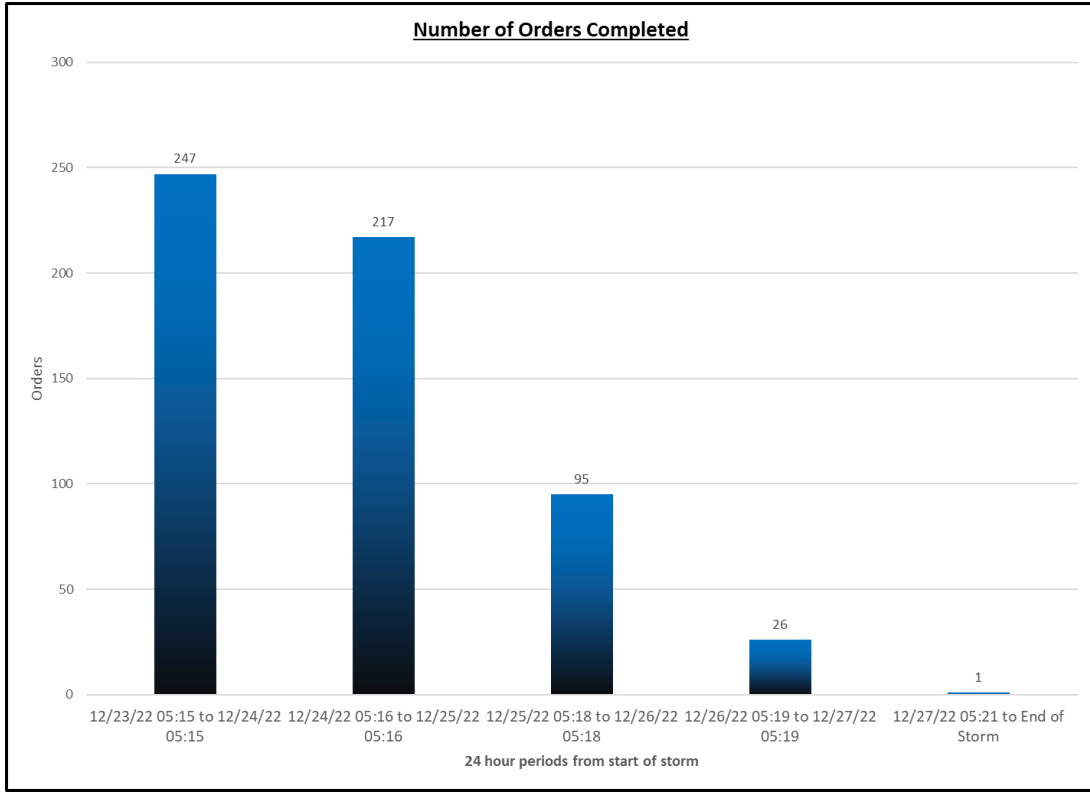




Attachment C: Restoration Curve



**Attachment D: Order Restoration Graphs**



**Attachment E: Meteorologist Reports**

**Sunday December 18, 2022 @ 0833**

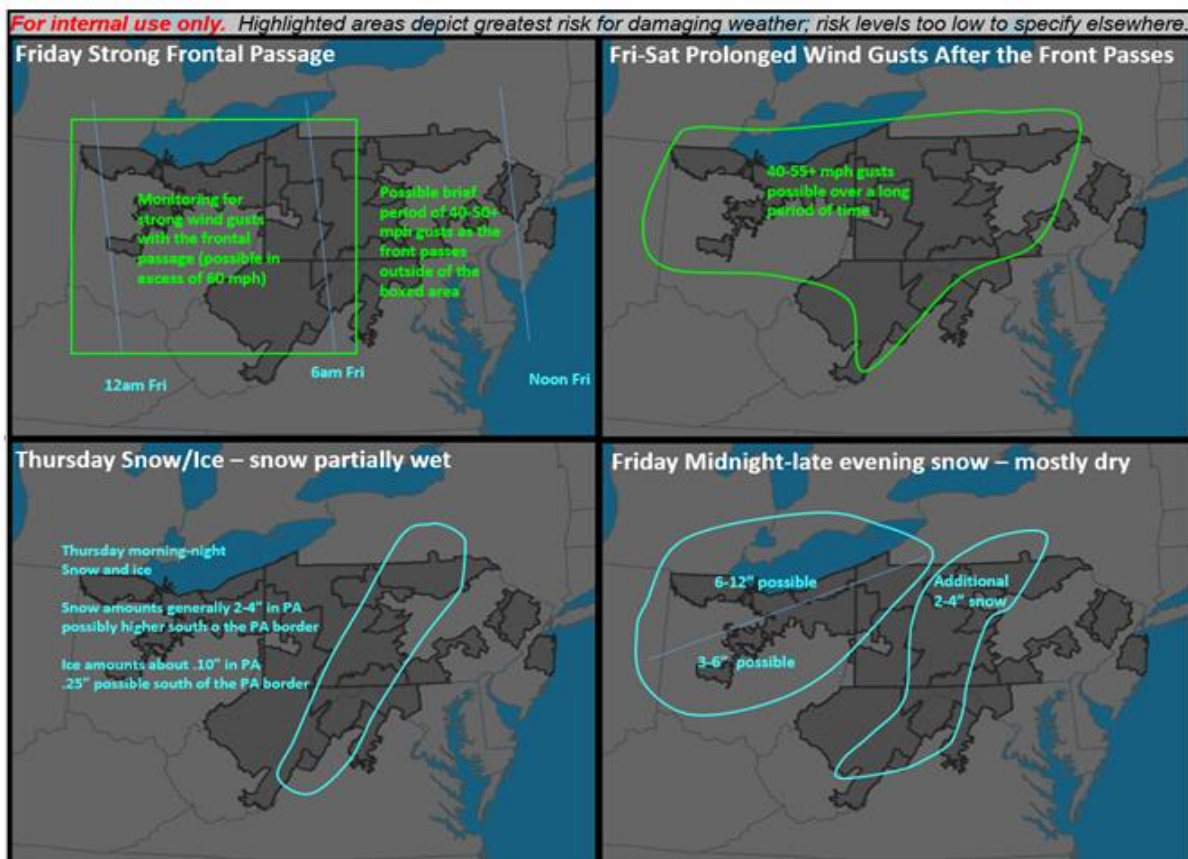
**New Issuance:** Preliminary outlook for a strong weather event Thu evening through Sat morning in most of FE.

In outlined areas...

1. Moderate confidence in wind forecast – regardless of the strength of the winds with the frontal passage itself (which might be quite powerful in the west half of FE), a prolonged day-long+ duration of strong wind gusts is highly likely after the front passes. The timing of the frontal passage is still in question (may be delayed 12 hours of that depicted)
2. Low confidence in snow/ice forecast - precise path of system may shift east/west by a good 75 miles and shift heavy snow area in FE West accordingly -- and influence amounts of snow/ice in the elevations of WV/MD/southwest PA. Timing of the start/end times of the winter precipitation are not etched in stone.

Two additional post-event concerns heading into Christmas weekend

1. Extreme cold for this time of year - daytime highs in the teens and twenties with over night lows in some cases near or slightly below zero. Wind chill factors in the west half of FE easily in the 10-20 BELOW zero range
2. Persistent light snow in FE West and the typical terrain areas is possible after the main event concludes with no possible melting

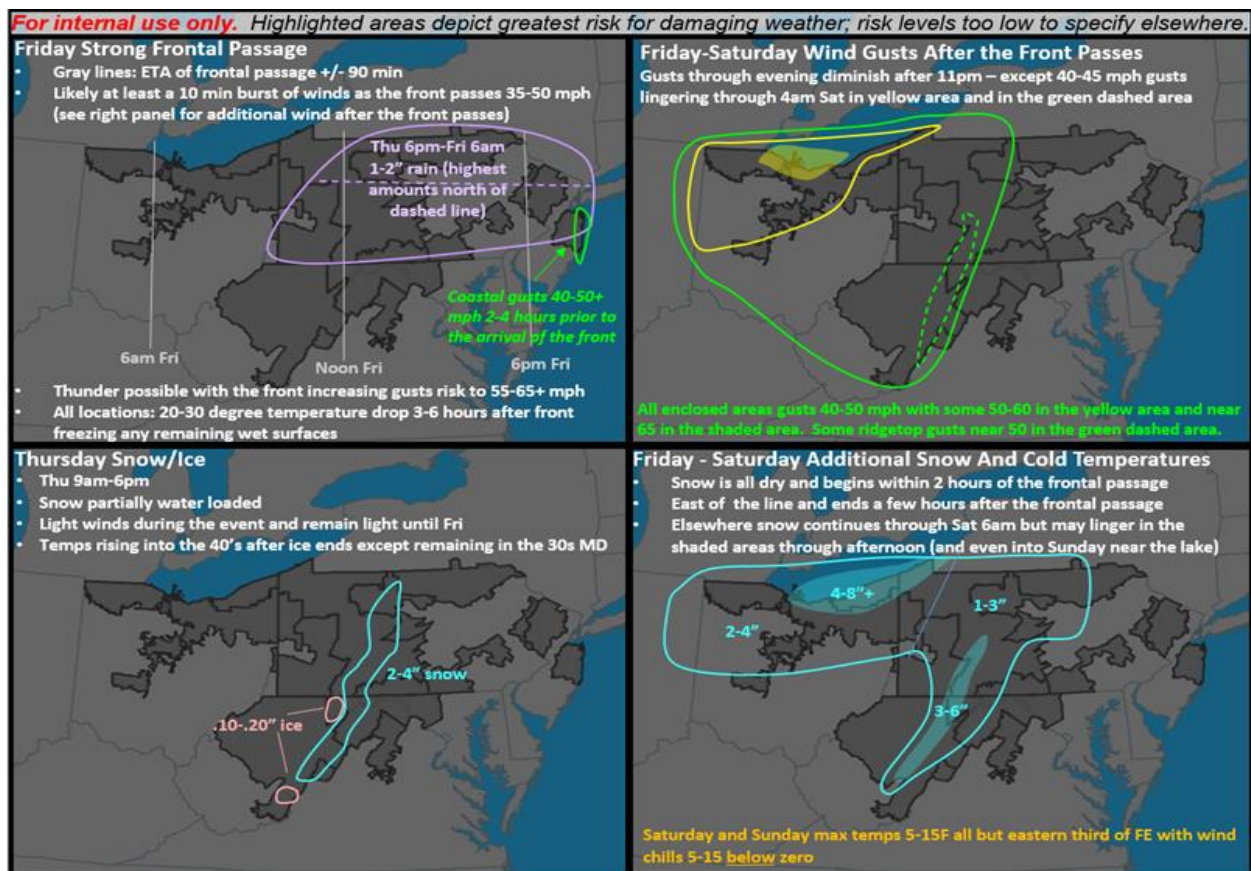


**Monday December 19, 2022 @ 1037**

**Changes** - added preliminary details of timing and magnitude to all threats including cold temperatures.

**Confidence details**

1. Wind gusts
  - a. With the front Friday – confidence is slightly below normal with strength of gusts as the front passes (monitoring for the potential of 60+ mph)
  - b. After the front passes Friday into Saturday – confidence is slightly below with the extent of yellow area (monitoring for potential to extend into east OH)
2. Snow/ice amounts
  - a. Thursday – confidence is slightly below normal with these amounts as the quick-hitting nature of the event may further limit accumulations of both snow and ice
  - b. Friday through Saturday – confidence is below normal with amounts outside of the shaded areas (cold air may lead to more effective accumulations and increase the amounts 1.5-2x that depicted)
3. Temperatures – confidence is high with the strength of the cold air after the front
  - a. Reference temperature forecasts [here](#) and wind chill charts [here](#) to see how quickly exposed skin is prone to frostbite



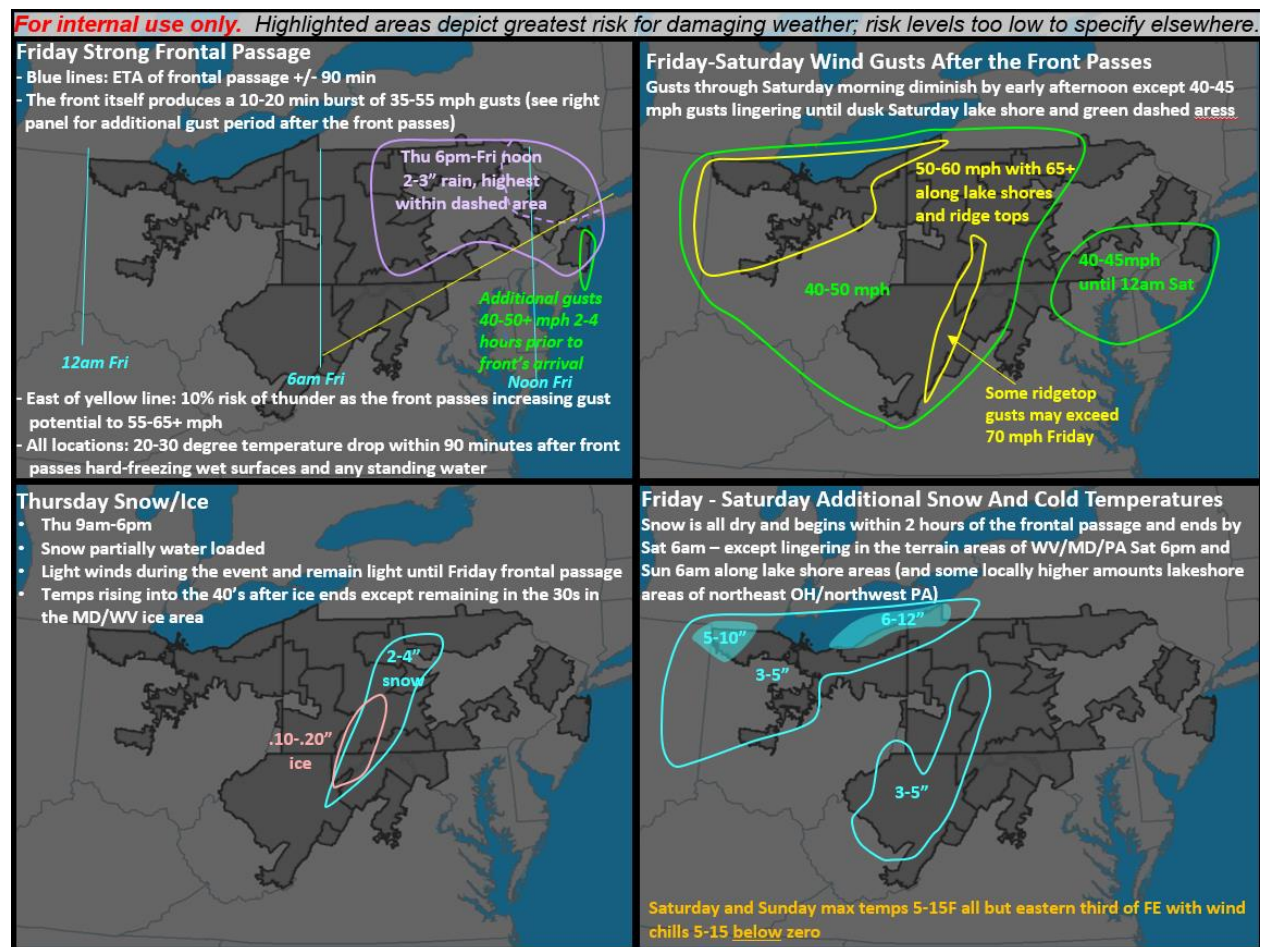
**Tuesday December 20, 2022 @ 1109**

**Changes**

1. Frontal passage – made ETA earlier by 6 hours, increased gust threat with frontal passage, added thunder threat area, added details of how quickly temperatures will drop after the front passes, increased rain amounts ahead of front in PA/NJ ahead of the front
2. Snow/Ice
  - a. Thu - increased snow/ice area
  - b. Fri/Sat – shrunk areas but increased amounts in northwest OH and lakeshore areas of northeast OH/northwest PA, refined timing
3. Wind gusts – refined gust area and magnitudes and also added gust area in southeast PA and NJ

Confidence is normal for all aspects of the graphic except the following

- Snow/ice amounts Thu in WV/MD/PA - below normal for snow amounts (might be lower)
- Thunder risk on Fri – below normal (weak signal, but worth mentioning in the forecast)

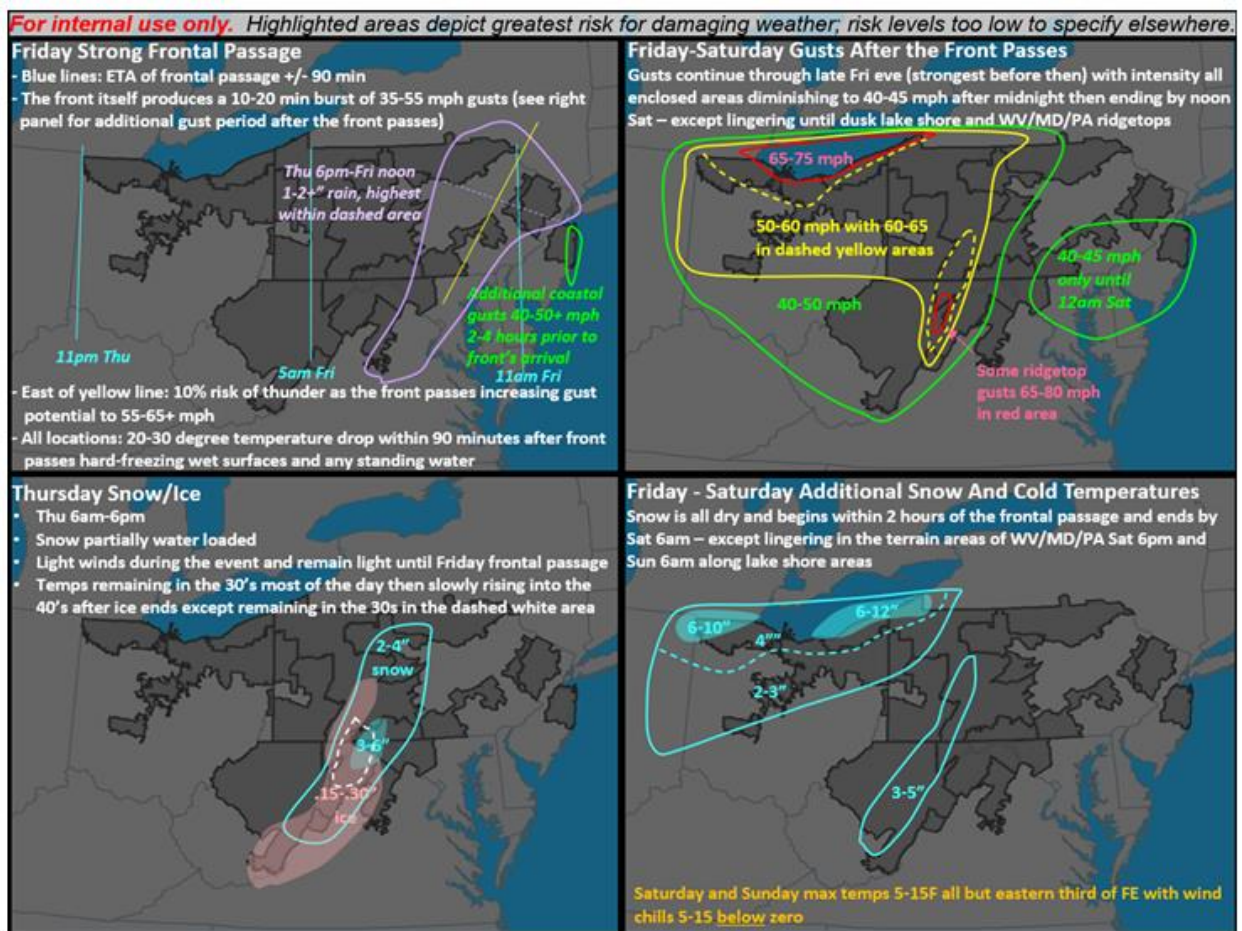


**Wednesday December 21, 2022 @ 0920**

**Changes. Clarification - there are two drivers to the wind: the frontal passage itself (represents a 10-20 min burst of winds as it passes – see top left panel) then an additional long-duration period of gusts developing after the front passes (see top right panel).**

1. Frontal passage: Made ETA earlier by 1 hour, fine-tuned thunder threat area, decreased rain amounts ahead of front in PA/NJ
2. Wind gusts: Refined gust area and increased magnitudes
3. Snow/Ice: Thu – extended south snow/ice area, Fri/Sat – refined areas and limited 4”+ snow

Confidence is normal for all aspects of the graphic except for snow/ice/rain amounts Thu and thunder risk on Fri.

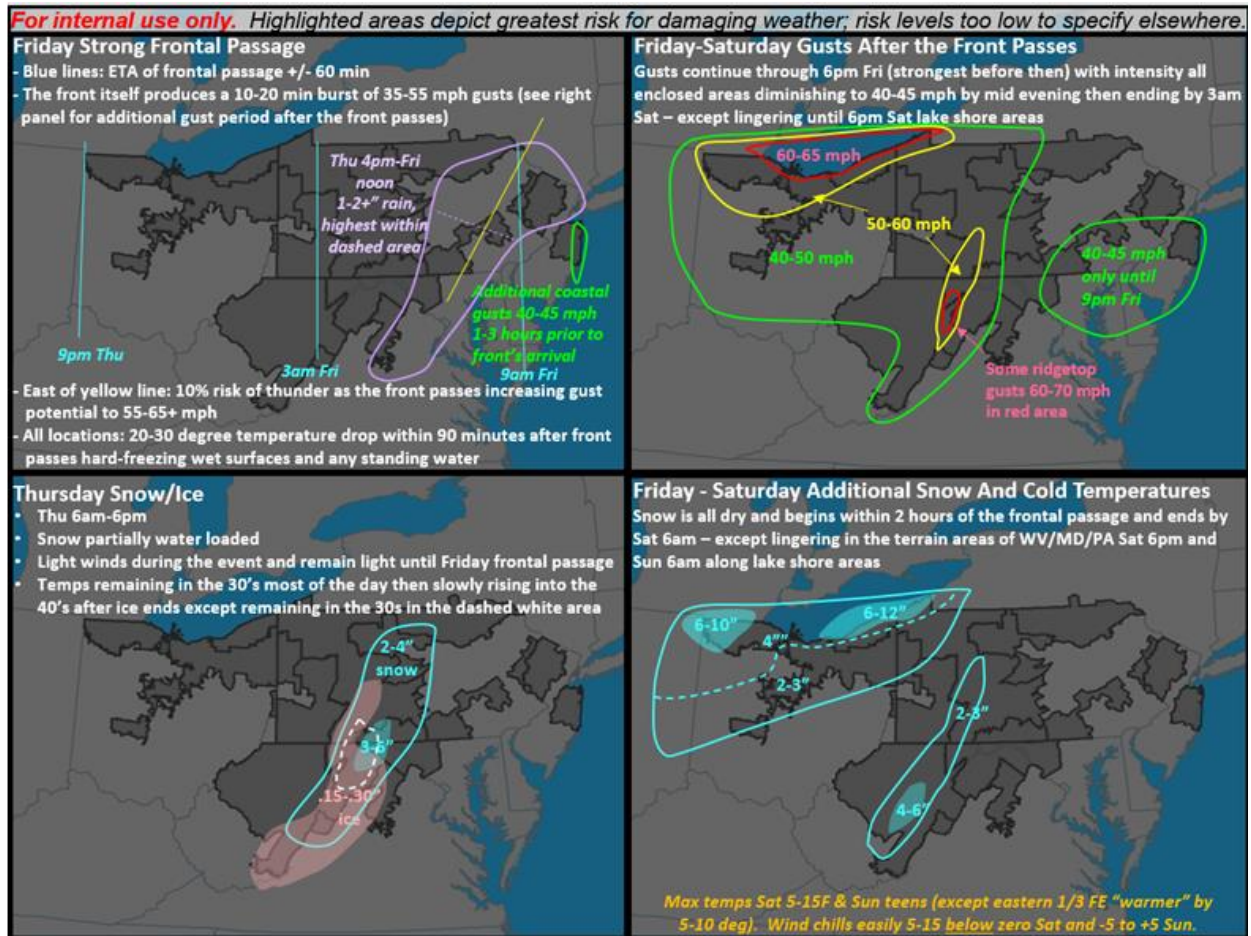


**Wednesday December 21, 2022 @ 1421**

**Changes**

1. Wind gusts intensity: Toned down intensity of gusts by 10 mph after the front passes and decreased duration of wind event by 3-6 hours
2. Frontal passage timing: Made ETA earlier by 2 hours, fine-tuned rain area
3. Snow/Ice Amounts: Fri/Sat small changes to fine tune amounts

Confidence is normal for all aspects of the graphic except for snow/ice/rain amounts Thu and thunder risk on Fri.



**Thursday December 22, 2022 @ 0835**

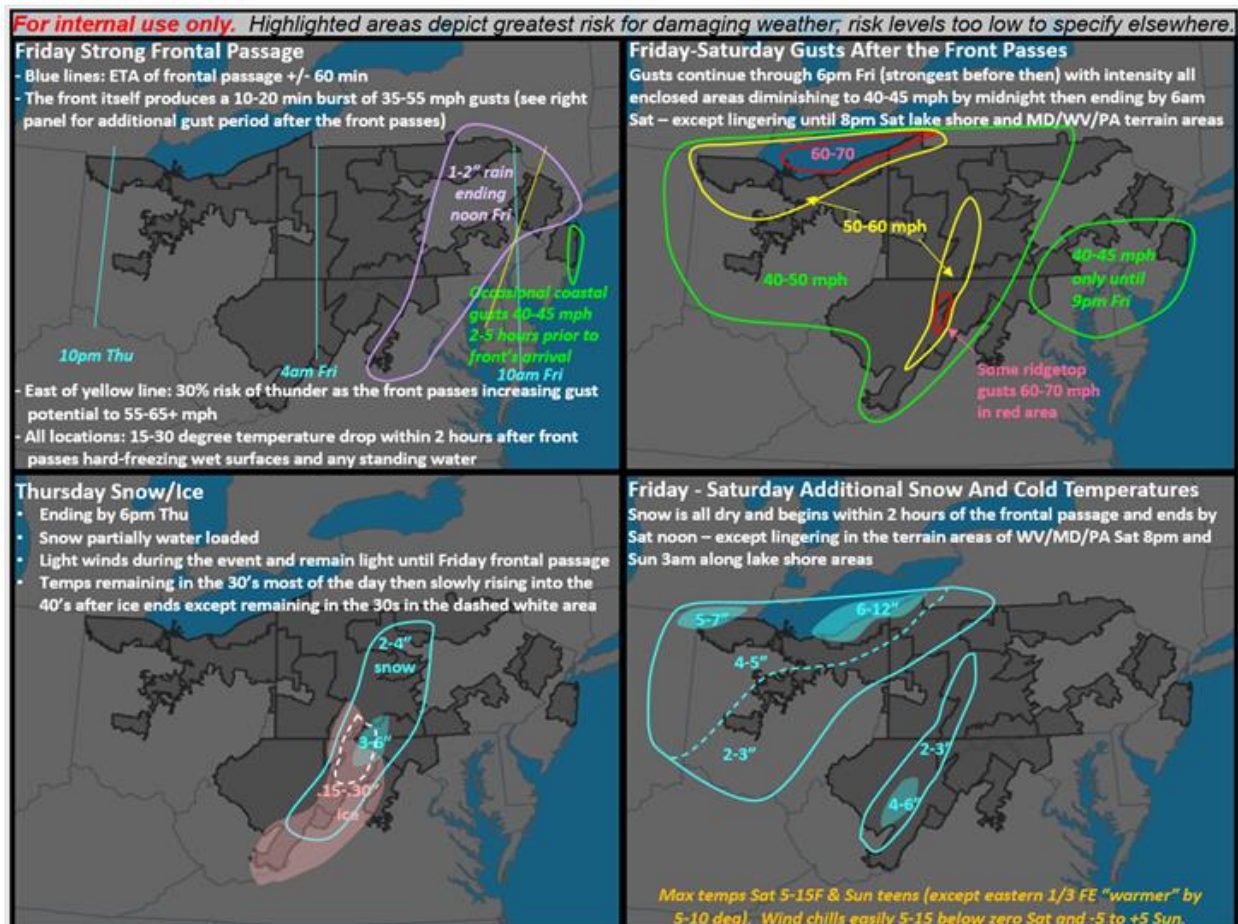
**Changes (fine-tunings)**

1. Wind gusts intensity: Expansion of general gust area and fine-tuned duration
2. Frontal passage timing: Made ETA earlier by 1 hour, fine-tuned rain area
3. Snow/Ice Amounts: Thu trimmed north extend of ice area, Fri/Sat increased general extent of snow area.
4. Thunder: Increased risk for embedded thunder in NJ

Confidence is above normal for all aspects of the graphics.

As a final warning

- Friday many roads across FE will experience spotty flash freezes within 2 hours of the frontal passage -- which will be exacerbated in areas expecting snow with reduced visibilities due to wind gusts.
- Wind chills through the weekend will be well below zero. Friday frostbite potential is the highest with cold temperatures and high winds (exposed skin will experience frostbite within 30 minutes - reference temperature forecasts [here](#) and wind chill charts [here](#))

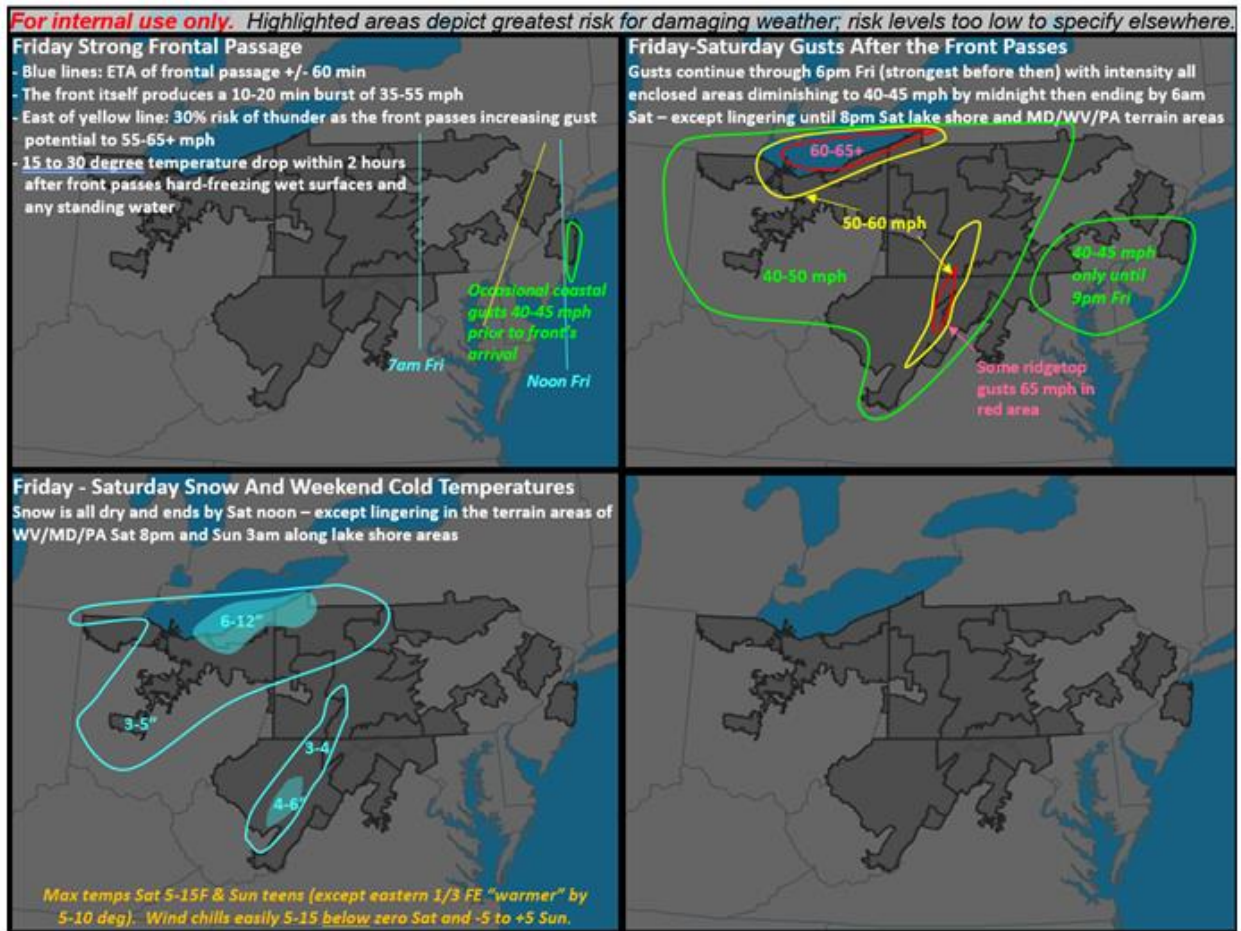


**Friday December 23, 2022 @ 0814**

**Changes (fine-tunings)**

1. Wind gusts intensity: Decrease in max areas by 5 mph
2. Snow Amounts: Removed significant snow amounts in extreme west OH and fine-tuned areas

Confidence is above normal for all aspects of the graphics.

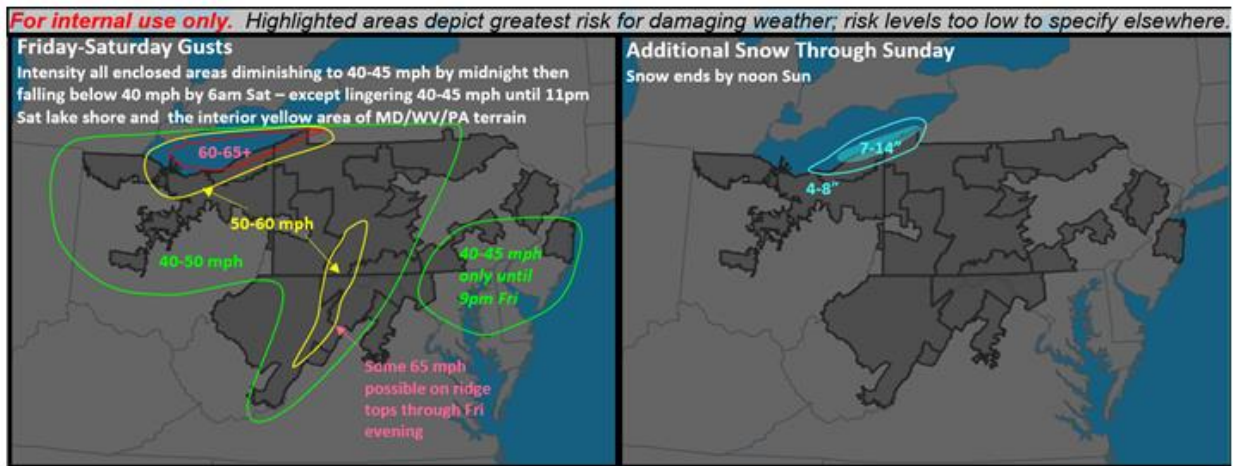


**Friday December 23, 2022 @ 1125**

Updated to show remainder of event starting noon Fri (some areas have seen most of the snow anticipated and also some of the higher gusts associated with the frontal passage have already occurred).

Confidence is normal for all aspects of the graphics.

Temperature forecast [here](#) compared to the wind chill chart [here](#) shows exposed skin in areas with -5F to +5F temperatures and gusts 35-50 mph will experience frostbite in about 20 minutes.



**Saturday December 24, 2022 @ 0754**

Final updated to show remainder of threats and timing. Confidence is normal for all aspects of the graphics.

1. Today temperatures will rise no higher than 10F except into the teens NJ, east PA, east MD, extreme northwest OH, and west WV
  - a. Wind chills will still be dangerous today. Temperature forecast [here](#) compared to the wind chill chart [here](#) shows exposed skin in areas with 5F to 15F temperatures and gusts 35-45 mph will experience frostbite in about 30 minutes
  - b. This issue is largely alleviated tomorrow as temperatures will be about 10 degrees warmer with lighter winds in all locations
2. Also and not depicted, a final round of light snow may produce a coating in the entire west half of FE Monday between noon and dusk – although not expected to exceed an inch may cause slippery driving conditions that afternoon

