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# Volume 2

# APPENDICES

# **City and County of Philadelphia**

# Act 537 Plan



BCM Engineers Inc. Engineers, Planners, Scientists, and Laboratory Services

#### **REPORT TO**

## CITY OF PHILADELPHIA PHILADELPHIA WATER DEPARTMENT PHILADELPHIA, PENNSYLVANIA

FOR

PHILADELPHIA ACT 537

#### MARCH 1993 REVISED MAY 1993

BCM PROJECT NO. 00-0740-0201



Engineers, Planners, Scientists and Laboratory Services 07400240.doc One Plymouth Meeting • Plymouth Meeting, PA 19462 • Phone: (215) 825-3800



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## **APPENDIX A**

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# Wastewater Control Regulations



#### CITY OF PHILADELPHIA

#### WATER DEPARTMENT

#### WASTEWATER CONTROL REGULATIONS

WHEREAS, the Philadelphia Home Rule Charter, Section 5-800 et seq mandates that the Philadelphia Water Department operate the City of Philadelphia water supply and wastewater collection systems; and

WHEREAS, the Philadelphia Water Department must insure sound and safe operation of the wastewater treatment plants and sewer collection system; and

WHEREAS, the federal Clean Water Act requires that the City prevent the introduction of pollutants into the City wastewater system which will interfer ( with the operation of the system or contaminate the resulting sludge; and

WHEREAS, the federal Clean Water Act requires that the City prevent the introduction of pollutants into the City wastewater system which will pass through the system, inadequately treated, into receiving waters or the diatmosphere or otherwise be incompatible with the system; and

WHEREAS an objective of the federal Clean Water Act is to improve the opportunity to recycle and reclaim wastewaters and sludges from the system.

NOW THEREFORE, the City of Philadelphia Water Department promulgates these Wastewater Control Regulations.

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#### SECTION 1 GENERAL PROVISIONS

#### 1.1 PURPOSE AND POLICY

The purposes of these regulations are:

- (a) To set forth uniform requirements for direct and indirect contributors to the wastewater collection and treatment system ("wastewater system") owned and operated by the City of Philadelphia ("City") and to enable the City to comply with all applicable state and federal laws required by the Clean Water Act of 1977 as amended and the General Pretreatment Regulations (40 CFR Part 403).
- (b) To prevent the introduction of pollutants into the City wastewater system which will:
  - (1) interfere with the operation of the system;
  - (2) contaminate the resulting sludge;
  - (3) cause the wastewater system to violate its NPDES discharge permit;
  - (4) pass through the system, inadequately treated, into receiving waters of the atmosphere;
  - (5) be otherwise incompatible with the system.
- (c) To improve the opportunity to recycle and reclaim wastewaters and sludges from the system.

These regulations provide for the regulation of direct and indirect contributo to the City wastewater system through the issuance of permits to certain nondomestic users.and Industrial Users and through enforcement of general require ments for the other Users; authorize monitoring and enforcement activities; require User reporting and compliance schedule submissions.

#### 1.2 DEFINITIONS

Unless the context specifically indicates otherwise, the following terms and phrases, as used in these regulations, shall have the following meanings:

- Act or "the Act". The Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. 1251, et seq.
- (2) <u>Approval Authority</u>. The Director in an NPDES state with an approved State Pretreatment: Programmand the Administrator of the EPA in a non-NPDES state or NPDES state without an Approved State Pretreatment Program.
- (3) Authorized Representative of Industrial User.

 In the case or a corporation, a president, secretary, treasurer or vice president of the corpration in charge of a principal business function;

(2) In the case of a partnership or proprietorship, a general partner or proprietor; and

(3) A duly authorized representative of the individual designated above if (a) such representative is responsible for the overall operation of the facilities from which the indirect discharge into the POTW originates; (b) the authorization is in writing; and (c) the written authorization is submitted to the POTW.

(4) Biochemical Oxygen Demand (BOD)<sub>5</sub>. The quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure for five (5) days at 20 degrees centigrade expressed in terms of weight and concentration (milligrams per liter (mg/l)).

- (5) <u>Building Sewer</u>. A private sewer conveying wastewater from the premise: of a User to the City wastewater system.
- (6) <u>Bypass</u>. The intentional diversion of wastestreams from any portion of an Industrial User's pretreatment facility.
- (7) <u>Categorical Standards</u>. National Categorical Pretreatment Standards or ~ Pretreatment Standard.
- (8) <u>City</u>. The City of Philadelphia.
- (9) Commissioner. Water Commissioner of the City of Philadelphia.
- (10) Commonwealth. The Commonwealth of Pennsylvania.
- (11) <u>Composite Sample</u>. A timed sequential collection of samples of equal volume or a collection of grab samples combined in a single reservoir to determine concentration(s) of pollutant(s).
- (12) <u>Cooling Water</u>. The water discharged from any use such as air conditioning, cooling or refrigeration, or to which the only pollutant added is heat and which does not contain a level of contaminants dete tably higher than that of the source of the water.
- (13) <u>Control Authority</u>. The term "control authority" shall refer to the City of Philadelphia Water Department and/or the City Water Commissioner.
- (14) <u>Daily Maximum</u>. The maximum allowable discharge of a pollutant during calendar day. Where maximum limitations are expressed in units of mass, the daily discharge is the total mass discharged over the course

of a day. Where daily maximum limitations are expressed in terms of concentration, the daily discharge is the arithmetic average measurement of the pollutant derived from all measurements taken that day.

(15) <u>Department</u>. Water Department of the City of Philadelphia.

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- (16) <u>Direct Discharge</u>. The discharge of treated or untreated wastewater directly to the waters of the Commonwealth of Pennsylvania which may occur through the City's stormwater conduits or combined sewer outfall structures.
- (17) <u>Environmental Protection Agency or EPA</u>. The United States Environmental Protection Agency, or where appropriate the term may also be used as a designation for the Administrator or other duly authorized official of said agency.
  - (18) <u>Flashpoint</u>. The temperature at which a liquid or volatile solid gives off vapor sufficient to form an ignitable mixture with the air near the surface of the liquid or within the test vessel. Flashpoint is determined by the tagliabue open cup method (American Society for testing Materials D1310-63), usually abbreviated TOC.
- (19) <u>Grab Sample</u>. A sample which is taken from a waste stream on a one-time basis with no regard to the flow in the waste stream and without consideration of time.
- (20) <u>Holding tank waste</u>. Any waste from holding tanks such as vessels, chemical toilets, campers, trailers, septic tanks, and vacuum-pump tank trucks.

- (21) <u>Indirect Discharge</u>. The discharge or the introduction of pollutants from any nondomestic source regulated under sections 307(b) or (c) of the Act, (33 U.S.C. 1317), into the POTW (including holding tank waste discharged into the system).
- (22) <u>Industrial User or User</u>. Any person that introduces an indirect discharge regulated under the Act, state or local law to the POTW.
- (23) <u>Interference</u>. The inhibition or disruption of the POTW treatment processes, operations, or maintenance activities alone or in conjunction with other discharges which contributes to a violation of any require ment of the City's NPDES Permit. The term includes prevention of sewage sludge use or disposal by the POTW in accordance with Section 405 of the Act (33 U.S.C. 1345) or any criteria, guidelines, or regulations developed pursuant to the Solid Waste Disposal Act (SWDA), the Clean Air Act, the Toxic Substances Control Act, or more stringent state criteria (including those contained in any State sludge management plan prepared pursuant to Title IV of SWDA) applicable to the method of disposal or use employed by the POTW.
- (24) <u>Monthly Average</u>. The arithmetic mean of the values for effluent samples collected over a calendar month.
- (25) <u>National Categorical Pretreatment Standard or Pretreatment Standard</u>. Any regulation containing pollutant discharge limits promulgated by t EPA in accordance with sections 307(b) and (c) of the Act (33 U.S.C. 1341) which applies to a specific category of Industrial Users and pretreatment standards as published in 40 CFR Chapter I, Sub Chapter Parts 401-471.

(26) <u>National Pollution Discharge Elimination System or NPDES Permit</u>. A permit issued pursuant to section 402 of the Act (33 U.S.C. 1342).

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- (27) <u>National Prohibitive Discharge Standard or Prohibitive Discharge</u> <u>Standard</u>. Any regulation developed under the authority of Section 307(b) of the Act and 40 CFR Section 403.5.
- (28) <u>New Source</u>. Any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced\_after the publication of proposed\_pretreatment:standards under 307(c) of the Act which will be applicable to such source if such Standards are thereafter promulgated in accordance with that section.
- (29) <u>Non-Domestic Users</u>. Commercial, industrial, municipal or other users whose discharge may have an effect on the wastewater system.
- (30) <u>Pass Through</u>. A discharge which exits the POTW to the receiving stream or its atmosphere in quantities or concentrations which alone or in conjunction with other discharges is a cause of a violation of any requirement of the POTW's NPDES permit or a violation of any air emission standard set by the Clean Air Act, State or local rules and regulations governing emissions to the air (including an increase in the magnitude or duration of a violation).
- (31) <u>Person</u>. Any individual, partnership, copartnership, firm, company, corporation, association, joint stock company, trust, estate, governmental entity or any other legal entity, or their legal representatives, agents or assigns. The masculine gender shall include the feminine, the singular shall include the plural where indicated by the context.

- (32) <u>pH</u>. The logarithm (base 10) of the reciprocal of the concentration of hydrogen ions expressed in grams per liter of solution.
- (33) <u>Pollution</u>. The man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water.
- (34) <u>Pollutant</u>. Any dredged spoil, solid waste, incinerator residue, sewage; garbage; sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discharged equipment, rock, sand, cellar dirt, industrial, municipal, and agricultural waste or any other contaminant discharged into water.
- (35) <u>Pretreatment or Treatment</u>. The reduction of the amount of pollutants the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater to a less harmful state prior to c in lieu of discharging or otherwise introducing such pollutants into r POTW. The reduction, elimination or alteration can be obtained by phy sical, chemical or biological processes, process changes, or other means, except as prohibited by 40 CFR Section 403.6(d).
- (36) <u>Process waste water.</u> Any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, bij product, or waste product.
- (37) <u>Pretreatment Requirements</u>. Any substantive or procedural requirement related to pretreatment, other than a National Pretreatment Standard imposed on an Industrial User.
- (38) <u>Publicly Owned Treatment Works (POTW)</u>. A treatment works as defined section 212 of the Act (33 U.S.C. 1292) which is owned by the City

including any devices and systems used in the storage, treatment, recycling or reclamation of municipal sewage and industrial waste. This definition includes any sewers that convey wastewater to the POTW treatment plant, but does not include pipes, sewers or other conveyances not connected to a facility providing treatment. For the purposes of this regulation, "POTW" shall also include any sewers that convey wastewaters to the POTW from persons outside the City who are, by contract or agreement with the City, users of the City's POTW.

- (39) <u>POTW Treatment Plant or Treatment Plant</u>. That portion of the POTW designed to provide treatment to wastewater.
- (40) <u>Shall</u> is mandatory; <u>May</u> is permissive.

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- (41) Significant Industrial User. Any Industrial User of the City's wastewater disposal system who (i) discharges an average of 25,000 gallons or more per day of process waste water or whose discharge contributes up to 5 percent or more of the average dry weather capacity of the POTW; or (ii) has in its wastes toxic pollutants as defined pursuant to Section 307 of the Act; or Pennsylvania Statutes and Rules or (iii) is found by the City, DER or EPA to have significant impact, either singly or in combination with other contributing users, on the wastewater treatment system, the quality of sludge, the system's effluent quality, or air emissions generated by or from the system, or (iv) is categorically regulated by the Act.
- (42) <u>State</u>. The Commonwealth of Pennsylvania.
- (43) <u>Standard Industrial Classification (SIC)</u>. A classification pursuant to the Standard Industrial Classification Manual issued by the Executive

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Office of the President, Office of Management and Budget, 1972, as amended.

- (44) <u>Storm Water</u>. Any flow occurring during or following any form of natural precipitation and resulting therefrom.
- (45) <u>Suspended Solids</u>. The total suspended matter that floats on the surface of, or is suspended in water, wastewater or other liquids, and which is removable by laboratory filtering expressed in terms of weigh and concentration (milligrams per liter (mg/l)).
- (46) <u>Toxic Pollutant</u>. Any pollutant or combination of pollutants listed as toxic pursuant to Pennsylvania Statues and Rules, Section 307(a) of th Act or other Federal statutes.
- (47) <u>Wastewater</u>. The liquid and water-carried industrial or domestic wastes from dwellings, commercial buildings, industrial facilities, and institutions, whether treated or untreated.
- (48) <u>Waters of the Commonwealth.</u> All streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, reservoirs, aquifers, irrigation systems, drainage systems and all other bodies or accumulations of water, surface or underground, natural or artificial, public or private, which are contained within, flow through, or border upon the Commonwealth or any portion thereof.
- (49) <u>Wastewater Discharge Permit</u>. As set forth in section 3.2 of these regulations.

1.3 ABBREVIATIONS

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|                         | The | follo | owing       | abbre      | eviations shall have the designated meanings:                 |
|-------------------------|-----|-------|-------------|------------|---------------------------------------------------------------|
|                         |     | •     | BOD         | -          | Biochemical Oxygen Demand.                                    |
|                         |     | •     | CERCL       | <u>A</u> - | Comprehensive Environmental Response and Clean Up Liabilities |
|                         |     |       |             |            | Act                                                           |
|                         |     | •     | CFR         | -          | Code of Federal Regulations.                                  |
|                         |     | •     | COD         | •          | Chemical Oxygen Demand.                                       |
| ~                       |     | •     | DER         | -          | Pennsylvania Department of Environmental Resources            |
|                         |     | •     | EPA         | -          | United States Environmental Protection Agency                 |
| •                       |     | ٠     | 1           | -          | Liter.                                                        |
|                         |     | •     | mg          | -          | Milligrams.                                                   |
|                         |     | •     | <u>mg/1</u> | -          | Milligrams per liter.                                         |
|                         |     | •     | NPDE        | 5 -        | National Pollutant Discharge Elimination System.              |
|                         |     |       | POTW        | -          | Publicly Gwned Treatment Works.                               |
|                         |     | •     | RCRA        | -          | Resource Conservation and Recovery Act                        |
|                         |     | •     | <u>sic</u>  | -          | Standard Industrial Classification.                           |
|                         |     | •     | <u>siu</u>  | -          | Significant Industrial User.                                  |
|                         |     | •     | SWDA        | -          | Solid Waste Disposal Act, 42 U.S.C. 6901, <u>et sec.</u>      |
|                         |     | •     | <u>tss</u>  | -          | Total Suspended Solids.                                       |
|                         |     | •     | <u>usp</u>  | -          | United States Code.                                           |
| SECTION 2 - REGULATIONS |     |       |             |            |                                                               |

## 2.1 GENERAL DISCHARGE PROHIBITIONS

a) No User shall contribute or cause to be contributed, directly or indirectly, to the POTW any pollutant or wastewater which will interfere with the opera-

receiving waters of the POTW, or may exceed the limitation set forth i a Categorical Pretreatment Standard or may violate the Clean Air Act. A toxic pollutant shall include but not be limited to any pollutant identified pursuant to Section 307(a) of the Act.

- 5) Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes are sufficient to create a public nuisance or hazard to life or are sufficient to prevent entry into the sewers or treatment plant facilities for maintenance and repair without respiratory protection or other personal safety equipment.
- 5) Any substance which may cause the POTW's effluent or any other product of the POTW such as residues, sludges, or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. 1 no case shall a substance discharged to the POTW cause the POTW to be in non-compliance with sludge use or disposal criteria, guidelines or regulations developed under Section 405 of the Act, nor any criteria, guidelines, or regulations affecting sludge use or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substances Control Act, or State criteria applicable to the sludge
- 7) Any substance which will cause the POTW to violate its NPDES and/or State Disposal System Permit or the receiving water quality standards.
- 8) Any wastewater with objectionable color not removed in the treatment a process, such as, but not limited to, dye wastes and vegetable tannin solutions.

- 9) Any wastewater having a temperature which will inhibit biological activity in the POTW treatment plant resulting in Interference, but in no case wastewater with a temperature at the introduction into the POTW which exceeds 60°C (140°F) or which shall cause the wastewater entering the POTW Treatment Plant to exceed 40°C (104°F).
- 10) Any pollutants, including oxygen demanding pollutants (BOD, etc.) and suspended solids released at a flow rate and/or pollutant concentration which a user knows or has reason to know will cause. Interference or Passthrough to the POTW. In no case shall a slug load have a flow rate or contain concentration or quantities of pollutants that exceed for any time period longer than fifteen (15) minutes more than five (5) times the average twenty-four (24) hour permitted concentration, quantities, or flow during normal operation.

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- 11) Any wastewater containing any radioactive wastes or isotopes of such half life or concentrations as may exceed limits established by the Commissioner in compliance with applicable State or Federal regulations.
- 12) Any wastewater which causes a hazard to human life or creates a public nuisance.
- 13) Any wastewater containing motor oils or lubricants removed from vehicles or other machinery.
- 14) Any wastewater containing substances which may solidify or become viscous at temperatures between 32° and 150°F.
- 15) Any sludges from septage or holding tanks without specific prior approval of the Department.

- 16) Any wastewater which because of its chemical nature or composition causes the sewer atmosphere to contain airborne chemical concentrations in exceedance of concentrations established by the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) under 29 CFR Section 1910, regardless of duration of exposure experienced by any individual, whether a Department or contractor's employee, unless specific authorization is granted by the Commissioner.
- 17) Any wastewater with a flashpoint less than 140°F.
- 18) Any wastewater where there is a significant likelihood of producing toxic effects to biota in the receiving water of the POTW or the POTW's effluent.

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In addition, the following activities are prohibited:

- 19) No person shall discharge wastewater into street inlets or through sewer manholes.
- 20) No person who generates wastewater at one property shall discharge it at another property without approval from the City.
- 21) No person shall discharge wastewater in quantities or at rates of flow which may have an adverse or harmful effect on or overload the Department's sewerage system or wastewater treatment plants or cause excessive or additional treatment costs.
- 22) No person shall discharge a wastewater flow contributing greater than 2,500.pounds per day of the five day biochemical oxygen demand, or contributing greater than 1,750 pounds per day of suspended solids or

having a volume in excess of three (3) million gallons per day without specific written approval of the City.

- 23) No person shall store or handle any material including hazardous substances defined by CERCLA, in any area draining to the city sewer system, because discharge or leakage from such storage or handling may create an explosion hazard in the sewer system or treatment plant or may constitute a hazard to human beings or animals or the receiving stream, or in any other way may have a deleterious effect upon the wastewater treatment facilities. Such storage or handling shall be subject to review by the City, and shall require a spill control plan with reasonable safeguards to prevent discharge or leakage of such materials into the sewers.
- c) When the Department determines that a User is contributing to the POTW amounts of wastewater described in paragraphs a) 1) through 18) or is involved in activities described in paragraphs 19) through 23) so as to Interfere or Passthrough with the operation of the POTW, the Department shall: 1) advise the User(s) of the impact of the contribution on the POTW; and 2) develop effluent limitation(s) for such user to correct the Interference or Passthrough with the POTW without the need to amend these regulations.

#### 2.2 FEDERAL CATEGORICAL PRETREATMENT STANDARDS

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Any Federal Categorical Pretreatment Standard published in 40 CFR Chapter I, Subchapter N, Parts 401-407, as amended, more stringent than limitations imposed under these regulations or by permit for sources in that category, shall supersede the limitations imposed under these Regulations.

#### 2.3 MODIFICATION OF FEDERAL CATEGORICAL PRETREATMENT STANDARDS

Where the City's wastewater treatment system achieves consistent removal of pollutants limited by Federal Pretreatment Standards, the City may apply to the Approval Authority for modification of specific limits in the Federal Pretreatment Standards of an Industrial User or a whole category.

#### 2.4 SPECIFIC POLLUTANT LIMITATIONS

a) No person shall discharge wastewater containing in excess of:.

|                | <u>Daily Maximum</u> | Monthly Average |     |
|----------------|----------------------|-----------------|-----|
| arsenic        | 0.01                 | mg/1 0.005      |     |
| cadmium        | 0.2                  | 0.1             |     |
| copper         | 4.5                  | 2.7             |     |
| lead           | 0.69                 | 0.43            |     |
| mercury        | 0.01                 | 0.005           |     |
| nickel         | 4.1                  | 2.6             |     |
| silver         | 0.43                 | 0.24            | :   |
| total chromium | 7.0                  | 4.0             |     |
| zinc           | 4.2                  | 2.6             |     |
| selenium       | 0.2                  | 0.1             |     |
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b) No person shall discharge wastewater containing any of the materials listed herein into the City sawer or shall have any connection to the City sawer without obtaining written permission from the City.

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Acrylonitrile Aldrin Alpha BHC Aluminum Barium Benzene Benzo (a) pyrene Benzotrichloride Beryllium Bis(2-ethylhexyl)phthalate (DEHP) Bromobenzene Bromodichloromethane Bromoform Carbon tetrachloride Chlordane Chlorobenzene Chlorodibromomethane Chloroethane

Chloroform Cumene -DDT/DDE/DDD Dibutylphthalate Dichloropromomethane Dichloroethyl ether (Bis(2-chloroeth Dieldrin diisobutylenes Dimethylnitrosamine Ethylbenzene Heptachlor Hexachlorobutadiene HexaChlorobenzene Iron Isopropylbenzene Lindane<sup>,</sup> • M-Dichlorobenzene Methyl chloride (Chloromethane) Molybdenium o,m,p-Xylenes o-Chlorotoluene o-Dichlorobenzene p-Chlorotoluene para-Dichlorobenzene PCB-1248 PCB-1260 Phenanthrene Phenols Pyrene Styrene Tetrachloroethylene (Perchloroethylene) Tin Titanium Toluene Toxaphene (chlorinated camphene) Trichloroethylene Vinyl chloride 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethlyene 1,1-Dichloropropene 1,2 trans,dichloroethylene 1,2,3-Trichloropropane 1,2-cis,dichloroethylene 1,2-Dibromo-3-Chloropropane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropene 1,4-Dichlorobenzene(p) 2-Chlorophenol 2,2-Dichloropropane 2,4-Dinitrophenol

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#### 2,4-Dinitrotoluene 3,3-Dichlorobenzidiene

The City reserves the right to modify this list of materials prohibited from entering the POTW as may become necessary by virtue of new state or federal regulations.

- c) <u>Chlorine and Ammonia</u>. The free chlorine and/or free ammonia content of the waste..shall be limited to 5 mg/l at any time as shown by grab sample. In particular instances where a mist-free atmosphere, as needed during inspection and maintenance of a sewer, or to protect the POTW, is otherwise not attainable, the Department may direct the User to further reduce its discharge of chlorine and ammonia, either on a temporary or permanent basis, so as to eliminate formation of mist, ir order to permit such inspection and maintenance and protect the POTW.
- d) <u>Hydrogen Sulfide</u>. The hydrogen sulfide content of the waste shall not exceed 2 mg/1 at any time as shown by grab sample.
- e) <u>Cyanide content</u>. The cyanide content of the waste shall not exceed 10 mg/l total cyanide and 2 mg/l of cyanide readily released at 150°F and pH 4.5. Cyanide content of wastewater must be measured by grab sample
- f) <u>Fats, Oils and Greases.</u> Wastewaters shall not contain in excess of I mg/l of fats, oils and greases of mineral or petroleum or unknown origin at any time as shown by grab sample.

Wastewaters shall not contain in excess of 300 mg/l for fats, oils and greases of animal or vegetable origin, at any time as shown by grab sample. The above concentrations may be reduced by the Department where it is demonstrated that the concentration is causing chronic or repeated adverse effects to the sewage system.

#### 2.5 STATE REQUIREMENTS

State requirements and limitations on discharges shall apply in any case where they are more stringent than Federal requirements and limitations or those in these regulations.

#### 2.6 CITY'S RIGHT OF REVISION

The City reserves the right to establish by regulation more stringent limitations or requirements on discharges to the wastewater disposal system if deemed necessary to comply with the objectives presented in Section 1.1 of these Regulations.

#### 2.7 EXCESSIVE DISCHARGE

No User shall ever increase the use of process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in the Federal Categorical Pretreatment Standards, or in any other pollutant-specific limitation developed by the City or State.

#### 2.8 ACCIDENTAL DISCHARGES

#### a) Soill Prevention Plan

Each User shall provide protection from accidental discharge of prohibited materials or other substances which may interfere with the POTW by developing a Spill Prevention Plan. Facilities to prevent accidental discharge of prohibited materials shall be provided and maintained at the owner or User's own cost and expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the

Department for review, and shall be approved by the Department before construction of the facility. All existing Users shall complete such a plan within 3 months of notice to do so by the Department. No User who commences a new discharge to the POTW after the effective date of these regulations shall be permitted to introduce pollutants into the system until accidental . discharge procedures have been approved by the City. Review and approval of such plans and operating procedures shall not relieve the Industrial User from the responsibility to modify the User's facility as necessary to meet the requirements of these regulations.

#### b) Notification

- (1) In the case of an accidental discharge, it is the responsibility of the User to immediately notify the Department of the incident by telephone The notification shall include date, time and location of discharge, type of waste including concentration and volume, duration of discharge, and any corrective actions taken by the User.
- (2) <u>Written Notice</u>: Within five (5) days following an accidental discharge the User shall submit to the Department a detailed written report describing the cause of the discharge and the measures that will be taken by the User to prevent similar future occurrences. Such notification shall not relieve the User of any expense, loss, damage, or other liability which may be incurred as a result of damage to the POTW, fish kills, or any other damage to person or property; nor shall such notification relieve the User of any fines, civil penalties, or other.liability which may be imposed by these regulations or other applicable law.

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#### c) Notice to Employees

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A notice shall be permanently posted on the User's bulletin board(s) or other prominent places advising employees whom to call in the event of a dangerous discharge. Employers shall advise all employees who may cause or be injured by such a discharge of the emergency notification procedure.

#### SECTION 3 - ADMINISTRATION"

#### 3.1 WASTEWATER DISCHARGERS

It shall be unlawful for any User to discharge without a City permit to sewer appurtenance outlet within the City, in any area under the jurisdiction of the City, and/or to the POTW any wastewater except as authorized by the City in accordance with the provisions of these regulations.

#### 3.2 WASTEWATER DISCHARGE PERMITS

#### 3.2.1 GENERAL PERMITS

All Significant Industrial Users proposing to connect to or contribute to the POTW shall obtain a wastewater discharge permit before connecting to or contributing to the POTW. All existing Significant Industrial Users connected to or contributing to the POTW shall obtain a wastewater discharge permit within 365 days after the effective date of these Regulations.

#### 3.2.2 PERMIT APPLICATION

Users required to obtain a Wastewater Discharge Permit shall complete and file with the City an application in the form prescribed by the City. Existing Users shall apply for a wastewater discharge permit within 30 days

after the effective date of these regulations, unless the City has previously issued such a permit which has not expired. New Users shall apply at least 90 days prior to connecting to or contributing to the POTW. The City may waive the requirement for filing an application. In support of the application, the User shall submit, in units and terms appropriate for evaluation, the following information:

- a) Name, address, and location (if different from the address);
- b) SIC number according to the Standard Industrial Classification Manual, Bureau of the Budget, 1972, as amended;
- c) Wastewater constituents and characteristics including but not limited to those mentioned in Section 2 of these regulations as determined by a reliable analytical laboratory; sampling and analysis shall be perform... in accordance with procedures established by the EPA pursuant to Section 304(g) of the Act and contained in 40 CFR Part 136, as amended;
- d) Time and duration of contribution; .
- Average daily and 30 minute peak wastewater flow rates, including daily, monthly and seasonal variations if any;
- f) Site plans, floor plans, mechanical and plumbing plans and details tr show all sewers, sewer connections, and appurtenances by the size, location and elevation:
- g) Description of activities, facilities and plant processes on the press ses including all materials which are or could be discharged;

- h) Where known, the nature and concentration of any pollutants in the discharge which are limited by any City, State, or Federal Pretreatment Standards, and a statement regarding whether or not the pretreatment standards are being met on a consistent basis, and if not, whether additional operation and maintenance (O&M) and/or additional pretreatment is required for the User to meet applicable Pretreatment Standards;
- i) Where additional pretreatment and/or O&M will be required to meet the Pretreatment Standards, the shortest schedule by which the User will provide such additional pretreatment. The completion date in this schedule shall not be later than the compliance date established for the applicable Pretreatment Standard.

The following conditions shall apply to this schedule:

(1) The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the User to meet the applicable Pretreatment Standards (e.g., completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction, etc.).

(2) No increment referred to in paragraph (1) shall exceed 9 months.

(3) Not later than 14 days following each date in the schedule and the final date for compliance, the User shall submit a progress report to the Department including, at a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date

on which it expects to comply with this increment of progress, the reason for delay, and the steps being taken by the User to return the construction to the schedule established. In no event shall more than nine (9) months elapse between such progress reports to the Department.

- j) Each product produced by type, amount, process or processes and rate of production;
- k) Type and amount of raw materials processed (average and maximum per day);
- Number and type of employees, hours of operation of plant and proposed or actual hours of operation of pretreatment system;
- m) Any other information as may be deemed by the City to be necessary to evaluate the permit application.

The City will evaluate the data furnished by the User and may require additional information. After evaluation and acceptance of the data furnished, the City may issue a wastewater discharge permit subject to terms and conditions provided herein.

#### 3.2.3 PERMIT MODIFICATIONS

Within 90 days of the promulgation of a National Categorical Pretreatment Standard, the wastewater discharge permit of Users subject to such standards shall be revised to require compliance with such standard within the time frame prescribed by such standard. Where a User, subject to a National Categorical Pretreatment Standard, has not previously submitted an application for a wastewater discharge permit as required by 3.2.2, the User shall

apply for a wastewater discharge permit within 180 days after the promulgation of the Applicable National Categorical Pretreatment Standard. In addition, the User with an existing wastewater discharge permit shall submit to the Department within 180 days after the promulgation of an applicable Federal Categorical Pretreatment Standard the information required by paragraphs (h) and (i) of Section 3.2.2.

#### 3.2.4 PERMIT CONDITIONS

Wastewater discharge permits shall be expressly subject to all provisions of these regulations and all other applicable regulations, User charges and fees established by the City. Permits may contain the following:

- a) Limits on the average and maximum wastewater constituents and characteristics;
- b) Limits on average and maximum rate and time of discharge or requirements for flow regulations and equalization;
- c) Requirements for installation and maintenance of inspection and sampling facilities;
- d) Specifications for monitoring programs which may include sampling locations, frequency of sampling, number, types and standards for tests and reporting schedule;
- e) Compliance schedules;
- f) Requirements for submission of technical reports or discharge reports (see Section 3.3);

- g) Requirements for maintaining and retaining plant records relating to wastewater discharge as specified by the City, and affording City access thereto;
- h) Requirements for notification of the City or any new introduction of wastewater constitutents or any substantial change in the volume or character of the wastewater constitutents being introduced into the wastewater treatment system;
- i) Requirements for notification of slug discharges;
- j) Other conditions as deemed appropriate by the Department to ensure compliance with these Regulations.

#### 3.2.5 PUBLIC NOTICE OF PERMIT ISSUANCE

- a) Public notice of every proposed wastewater discharge permit ("permit") shall be published by the Water Department in a newspaper of daily cir culation within the geographical area of the discharge. The notice shall include at least the following:
  - 1) Name and address of each permittee.
  - Each permittee's activity or operation which results in the discharge described in the wastewater discharge permit.
  - Address and phone number of premises where a copy of the propose permit may be requested.
  - 4) Notice of the 30-day comment period required by section 3.2.5(b)-
- b) There.shall be a 30-day period following publication of notice during which written comments may be submitted by the permittee or interestr

persons located within the Water Department's wastewater processing service area. The Commissioner will make his final determination on a proposed permit following the comment period. The period for comment may be extended at the discretion of the Commissioner for up to 30 additional days.

c) The Commissioner shall issue the permit as soon as is practicable and this shall be a final decision.

#### 3.2.6 PERMIT DURATION

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- a) Permits shall be issued for a specified time period, not to exceed five (5) years. A permit may be issued for a period less than a year or may be stated to expire on a specific date. The User shall apply for permit reissuance a minimum of 180 days prior to the expiration of the User's existing permit as set forth in Section 3.2.2. The terms and conditions of the permit may be subject to modification by the City during the term of the permit as limitations or requirements as identified in Section 2 are modified or other just cause exists. The User shall be informed of any proposed changes in his permit at least 30 days prior to the effective date of change. Any changes or new conditions in the permit shall include a reasonable time schedule for compliance.
- b) Where a permit has been appealed, appeal shall only stay the disputed provision not the entire permit. The remainder of the permit is enforceable.
- c) Where a permit has been issued under City of Philadelphia Wastewater Control Regulations, which became effective January 1, 1977, the per-

mit shall remain effective until the expiration date of the permit. The User shall apply for permit reissuance a minimum of 180 days prior to the expiration of the User's existing permit as set forth in Section 3.2.2.

#### 3.2.7 PERMIT TRANSFER

Wastewater discharge permits are issued to a specific User for a specific operation. A wastewater discharge permit shall not be reassigned or transferred or sold to a new owner, new User, different premises, or a new or changed operation without the approval of the City. The User must give the Department at least 30 days notice of a transfer of ownership. Any succeeding owner or User shall also comply with the terms and conditions of the existing permit until a new permit for the succeeding owner of User is issued by City.

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#### 3.2.8 EFFECTIVE DATE

The permit becomes effective when signed by the Commissioner or his designate.

#### 3.3 REPORTING REOUIREMENTS

#### 3.3.1 COMPLIANCE DATE REPORT

Within 90 days following the date for final compliance with applicable Pretreatment Standards or, in the case of a New Source, following commencement of the introduction of wastewater into the POTW, any User subject to Pretreatment Standards and Requirements shall submit to the Commissioner a. report indicating the nature and concentration of all pollutants in the
discharge from the regulated process which are limited by Pretreatment Standards and Requirements and the average and maximum daily flow for these process units in the User's facility which are limited by such Pretreatment Standards or Requirements. The report shall state whether the applicable Pretreatment Standards or Requirements are being met on a consistent basis and, if not, what additional O&M and/or pretreatment is necessary to bring the User into compliance with the applicable Pretreatment Standards or Requirements. This statement shall be signed by an authorized representative of the Industrial User.

# 3.3.2 PERIODIC COMPLIANCE REPORTS

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- (a) Any User subject to a Pretreatment Standard, shall submit to the Department during the months of June and December, unless required more frequently or in different months in the Pretreatment Standard or by the Water Department, a report indicating the nature and concentration of pollutants in the effluent which are limited by such Pretreatment Standards.
- (b) The Department may impose mass limitations on Users which are using. dilution to meet applicable Pretreatment Standards or Requirements, or in other cases where the imposition of mass limitations are appropriate. In such cases, the report required by subparagraph (1) of this paragraph shall indicate the mass of pollutants regulated by Pretreatment Standards in the effluent of the User. These reports shall contain the results of sampling and analysis of the discharge, including the flow and the nature and concentration, or production and mass where requested by the Department, of pollutants contained therein

which are limited by the applicable Pretreatment Standards. The frequency of monitoring shall be prescribed in the applicable Pretreatment. Standard by the Department. All analysis shall be performed in accordance with procedures established by the EPA pursuant to section 304(g)<sup>or</sup> of the Act and contained in 40 CFR, Part 136, and amendments thereto, or with any other test procedures approved by the EPA. Sampling shall be performed in accordance with the techniques approved by the EPA. Where 40 CFR, Part 136 does not include a sampling or analytical technique for the pollutant in question, sampling and analysis shall be performed in accordance with the procedures set forth in the EPA publication, Sampling and Analysis Procedures for Screening of Industrial Effluents for Priority Pollutants, April, 1977, and amendments thereto, or with any other sampling and analytical procedures approved by EPA.

### 3.4 MONITORING FACILITIES

- a) The City shall require to be provided and operated at the User's own expense, monitoring facilities to allow inspection, sampling, and flow measurement of the building sewer and/or internal drainage systems. The monitoring facility should normally be situated on the User's premises, bu' the City may, when such a location would be impractical or cause undue hardship on the User, allow the facility to be constructed in the public street or sidewalk area and located so that it will not be obstructed by landscaping or parked vehicles.
- b) There shall be ample room in or near such sampling manhole or facility to allow accurate sampling and preparation of samples for analysis. The faci

lity, sampling and measuring equipment shall be maintained at all times in a safe and proper operating condition at the expense of the User.

c) Whether constructed on public or private property, the sampling and monitoring facilities shall be provided in accordance with the City's requirements and all applicable local construction standards and specifications. Construction shall be completed within 90 days following written notification by the City.

#### 3.5 INSPECTION AND SAMPLING

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- a) The City shall inspect the facilities of any User to ascertain whether the purpose of these regulations are being met and all requirements are being complied with. Persons or occupants of premises where wastewater is created or discharged shall allow the City or their representative ready access at all reasonable times to all parts of the premises for the purposes of inspection, sampling, records examination, copying of records or for the performance of any of their duties.
- b) The City shall have the right to set up on the User's property such devices as are necessary to conduct sampling, inspection, compliance monitoring and/or metering operations.
- c) Where a User has security measures in force which would require proper identification and clearance before entry into their premises, the User shall make necessary arrangements with their security guards so that upon presentation of suitable identification, personnel from the City shall be permitted to enter, without delay, for the purposes of performing their specific responsibilities.

#### 3.6 PRETREATMENT

Users shall provide necessary wastewater treatment as required to comply with these regulations and shall achieve compliance with all Federal Categorical Pretreatment Standards within the time limitations as specified by the Federal Pretreatment Regulations. Any facilities required to pretreat wastewater to a level acceptable to the City shall be provided, operated, and maintained at the User's expense. Detailed plans showing the pretreatment facilities and operating procedures shall be submitted to the City. for review, and shall be acceptable to the City before construction of the facility. The review of such plans and operating procedures will in no way relieve the User from the responsibility of modifying the facility as necessary to produce an effluent acceptable to the City under the provisions of these regulations. User shall report to the City any changes in the pretreatment facilities, method of operation or nature or characteristics of the wastewater. City may deny or condition any changes i the nature or characteristics of the wastewater at least sixty (60) days prior to such changes.

All User records relating to compliance with Pretreatment Standards shall be made available to City for inspection and copying.

#### 3.7 CONFIDENTIAL INFORMATION

a) Information and data on a User obtained from reports, questionnaires, perm applications, permits and monitoring programs and from inspections shall be available to the public or other governmental agency without restriction unless the User specifically requests and is able to demonstrate to the satisfaction of the City that the release of such information would divulge information, processes or methods of production entitled to protection as trade secrets of the User.

b) When requested by the person furnishing a report, the portions of a report which might disclose trade secrets or secret processes shall not be made available for inspection by the public but shall be made available upon written request by governmental agencies for uses related to this regulation, the City's Nationa: Pollutant Discharge Elimination System (NPDES) Permit, State Disposal System permit and/or the Pretreatment Programs; provided, however, that such portions of a report shall be available for use by State and Federal government or any state or federal agency in judicial review or enforcement proceedings involving the person furnishing the report. Wastewater constituents and characteristics will not be recognized as confidential information.

#### 3.8 PUBLIC NOTIFICATION

The City shall publish, at least semi-annually in the daily newspaper with the largest circulation a list of the Users which were not in compliance with any Pretreatment Requirements or Standards during the six previous months. The notification may also summarize any enforcement actions taken against the User(s) during the same six months.

#### 3.9 CERTIFICATION REQUIREMENT

Baseline monitoring reports, reports on compliance with categorical pretreatment standards and periodic reports on continued compliance shall include the certification statement set forth in 40 CFR 403.6(a)(2)(ii).

# 3.10 SIGNATORY REQUIREMENT

Baseline monitoring reports, reports on compliance with categorical pretreatment standards and periodic reports on continued compliance shall be signed as specified in 40 CFR §403.12(1).

#### SECTION 4 - ENFORCEMENT

## 4.1 EMERGENCY SUSPENSIONS

- a) Notwithstanding any other provisions of these regulations, the City may suspend the wastewater treatment service and/or a wastewater discharge permit when such suspension is necessary, in the opinion of the City, in orderto stop an actual or threatened discharge which:
  - presents or may present an imminent or substantial endangerment to the health or welfare of persons; or
  - (2) presents or may present an imminent or substantial endangerment to the environment; or
  - (3) may cause or actually causes Interference to the POTW; or
  - (4) causes the City to violate any condition of its NPDES Permit.
- b) Any person notified of a suspension of the wastewater treatment service and/or the wastewater discharge permit shall immediately stop or eliminate all contributions.
- c) Should the person fail to immediately comply voluntarily with the suspension order, the City shall take such steps as deemed necessary, including but no limited to termination of water service, and/or immediate severance of the sewer connection, to prevent or minimize damage to the POTW system, its receiving stream or endangerment to any individuals.
- d) The City shall reinstate the wastewater discharge permit and/or the wastewater treatment service upon proof of the elimination of the noncomplying discharge.

e) A detailed written statement submitted by the User describing the causes of the harmful Contribution and the measures taken to prevent any future occurrence shall be submitted to the City within 15 days of the date of occurrence.

### 4.2 REVOCATION OF PERMIT

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Any User who violates these regulations, the Wastewater Discharge permit, or any applicable Federal, State or local law, is subject to having his wastewater discharge permit revoked in accordance with the procedures of Section 4.3 of these regulations. Revocation of a User's Permit requires the User to immediately cease all wastewater contributions.

# 4.3 PROCEDURE FOR REVOCATION OF PERMIT

- a) Whenever the City finds that any User has violated or is violating these regulations, the wastewater discharge permit, or any prohibition, limitation, or requirement contained herein, the City may serve by regular or certified mail upon such person a written notice stating the nature of the violation. Notice by regular mail alone shall be deemed sufficient notice.
- b) Within 30 days of the date of the notice of violation the User must respond in writing. The response must state why the violation occurred, the steps taken to prevent its reoccurrence, and whether the violation has been corrected. If the User is unable to correct the violation within thirty (30) days his response must include a plan for the satisfactory correction thereof.
- c) The Commissioner shall consider the User's response, if any, before rendering his final determination order. The Commissioner's final determination order may direct that:

- (1) the User's Permit be immediately revoked;
- (2) the User's Permit be revoked on a specified future date unless adequate treatment facilities, devices or other related appurtenance shall have been installed and existing treatment facilities, devices or other related appurtenances are properly operated; or
- (3) the User's Permit shall continue in effect.
- d) Further orders and directives as are necessary and appropriate may be issued.

# 4.4 ENFORCEMENT OF PERMIT REVOCATION

If the User fails to immediately cease all wastewater discharges upon the revocation of his wastewater discharge permit, the Commissioner may order any of the following actions to be taken:

- a) immediate termination of the User's water service;
- b) immediate severance of the User's sewer connection;
- c) any other action designed to immediately terminate the User's wastewater discharge.
- 4.5 REISSUANCE OF PERMIT AFTER REVOCATION
- a) Where an Industrial User has failed to comply with the provisions of these regulations or any order or previous permit issued hereunder, the City ma decline to reissue a Permit.
- b) A User must submit to the City a plan to comply with the provisions of these regulations or any order or previous permit issued hereunder. At t

very least the plan must outline (1) what will be done to comply; (2) what has been done to comply and (3) what time frame will be required to comply.

c) Prior to issuing a Permit the City may require the User to:

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- file with the City a performance bond payable to the City, in a sum not to exceed a value determined by the City to be necessary to achieve consistent compliance; or
- 2) submit proof that it has obtained liability insurance acceptable to the City, sufficient to restore or repair the POTW for damages that may be caused by the User's discharge.

# 4.6 ENFORCEMENT PROCEDURE AGAINST NON PERMITTED USERS

- a) Whenever the City finds that any User has violated or is violating these regulations, or any prohibition, limitation, or requirements contained herein, the City may serve by regular or certified mail upon such person a written notice stating the nature of the violation. Notice by regular mail shall be deemed sufficient notice.
- b) Within 30 days of the date of the notice of violation the User must respond in writing. If the User is unable to correct the violation within thirty (30) days his response should include a plan for the satisfactory correction thereof.
- c) The Commissioner shall consider the User's response, if any, before rendering his final determination order. The Commissioner's final determination order may direct that:
  - (1) the User immediately cease all wastewater contributions; or

- (2) the User be prohibited from contributing wastewater into the City's system unless adequate treatment facilities are installed and operating; or
- (3) the User may continue his wastewater contribution.
- d) Further orders and directives as are necessary and appropriate may be issue
- e) If a User fails to immediately comply with the Commissioner's final determination order the Commissioner may enforce his order by taking any or all of the actions stated in Section 4.4. In addition, the Commissioner may use any other administrative, legal, or equitable relief available.
- f) After termination, the User may apply to the Commissioner to once again contribute wastewater into the City's system. The Commissioner may accept, deny, or condition his acceptance of the application pursuant to Section 4.5.

# 4.7 LEGAL ACTION

If any person discharges sewage, industrial wastes, or other wastes into the City's wastewater disposal system or commits nondischarge violations including but not limited to failure to submit reports or allow onsite inspections contrary to the provisions of these regulations, Federal or State Pretreatment Requirements, the permit, or any order of the City, the City Solicitor may commence an action for appropriate legal and/or equitable relief in the appropria Court.

# 4.8 INJUNCTIVE RELIEF

Whenever an Industrial User has violated or continues to violate the provision of these regulations or permit or order issued hereunder, the City, through

counsel may petition the Court for the issuance of a temporary restraining order, a preliminary or permanent injunction (as may be appropriate) which restrains or compels the activities on the part of the Industrial User.

# 4.9 CEASE AND DESIST ORDERS

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When the City finds that an Industrial User has violated or continues to violate these Regulations or any permit or order issued hereunder, the City may issue an order to cease and desist all such violations and direct those persons in noncompliance to:

- a) Comply forthwith.
- b) Take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation, including halting operations and terminating the discharge.

## 4.10 WATER SUPPLY SEVERANCE

Whenever an Industrial User has violated or continues to violate the provisions of these regulations or an order or permit issued hereunder, water service to the Industrial User may be severed and service will only recommence, at the User's expense, after it has satisfactorily demonstrated its ability to comply.

## SECTION 5 - FEES

# 5.1 PURPOSE

It is the purpose of this section to provide for the recovery of costs from users of the City's wastewater disposal system for the implementation of the program established herein.

# 5.2 CHARGES AND FEES

- All industrial users applying for or issued a permit after the promulgation of these regulations shall pay a fee of \$500.00 per permit application.
- 2. The City may adopt charges and fees which may include:
  - a) fees for reimbursement of costs of setting up and operating the City's pretreatment Program;
  - b) fees for monitoring, inspections and surveillance procedures;
  - c) fees for reviewing accidental discharrge procedures and construction;
  - d) other fees as the City may deem necessary to carry out the requirements contained herein.

These fees relate solely to the matters covered by these regulations are are separate from all other fees chargeable by the City. The Department reserves the right to change the fees set forth herein.

# SECTION 6 - PENALTY: COSTS

#### 6.1 CIVIL PENALTIES

Any user who is found to have violated, continues to violate, or fails to complewith an Order of the Commissioner or any provision of these regulations, and the orders, rules, regulations and permits issued hereunder shall be liable to the City for a civil penalty of Three Hundred Dollars (\$300.00) or the maximum fine allowed by law for each offense plus actual damages incurred by the City per violation per day, for as long as the violation continues. Each day o which a violation shall occur or continue shall be deemed a separate and

distinct offense; each term, condition or parameter violated snall also be deemed a separate and distinct offense. In addition to the penalties and <u>damages</u> provided herein, the City may recover reasonable attorneys' fees, court costs, court reporters' fees and other expenses associated with the enforcement activities, including sampling and monitoring expenses, against the person found to have violated these regulations or the orders, rules, regulations, and permits issued hereunder.

# 6.2 FALSIFYING INFORMATION

Any person who knowingly makes any false statements, representation or certification in any application, record, report, plan or other document filed or required to be maintained pursuant to these regulations, or any wastewater discharge permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under these regulations shall, upon conviction, be punished by a fine of \$300 or the maximum fine allowed by law or by imprisonment for not more than six-(6) months, or by both.

#### SECTION 7 - SEVERABILITY

If any provision, paragraph, word, section or article of these Regulations is invalidated by any court of competent jurisdiction, the remaining provisions, paragraphs, words, sections; and chapter shall not be affected and shall continue in full force and effect.

#### SECTION 8 - CONFLICT

All other regulations and parts of other regulations inconsistent or conflicting with any part of these regulations are hereby repealed to the extent of such inconsistency or conflict.

# SECTION 9 - EFFECT OF REGULATIONS

These regulations shall apply to the City and to persons outside the City who are, by contract or agreement with the City, Users of the City's wastewater system.

# SECTION 10 - EFFECTIVE DATE OF REGULATIONS

These regulations shall be effective June 11, 1990

1990 Date:

JOHN PLONSKI Water Commissioner

Approved as to form:

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CAROL HORNE PENN Assistant City Solicitor

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# APPENDIX B

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# Sample Intermunicipal Agreements

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This Agreement, made this  $10^{-12}$  day of  $M_{2}$ , 1933, A.D. by and between the City of Philadelphia, party of the first part, hereinafter called "City" and the Township of Abington, Montgomery County, Pennsylvania, party of the second part, hereinafter called "Township."

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## WITNESSETH:

WHEREAS, The City owns and operates wastewater collection and treatment facilities which have a limited capacity to convey, scientifically treat and properly dispose of wastewater and its by-products collected from outlying municipalities in addition to wastewater originating within the City; and,

• WHEREAS, Expansion of the City's wastewater treatment facilities will en-

WHEREAS, It is necessary to comply with new higher standards and treatment methods for wastewater as set forth in Federal, State and local laws and regulations; and,

WHEREAS, There are resultant by-products in the form of sludge in connection with all methods of wastewater treatment which must be disposed of; and,

WHEREAS, the City is now expanding and improving its wastewater collection and treatment facilities in accordance with orders, guidelines and regulations of the the Delaware River Basin Commission, the Pennsylvania Department of Environmental Resources and the United States Environmental Protection Agency (hereinafter referred to as "EPA"); and,

WHEREAS, The City has entered into Federal Grant Agreements with the EPA under the Funding Arrangements provided in Federal Water Pollution Control Act Amendments of 1972 (P.L. 92-500) as amended by the Clean Water Act of 1977 (P.L. 95-217), for the purpose of partially funding the expansion, improvement and rehabilitation of the City's wastewater collection and treatment system; and,

WHEREAS, The City has grant applications pending and expects to apply to the EPA for additional grants in the future for the purpose of partially funding the expansion, upgrading and/or rehabilitation of the City's wastewater collection and treatment system; and,

WHEREAS, The City is required to adhere to and abide by all Federal, State and local laws and EPA Rules and Regulations in order to retain Federal grant funding; and,

WHEREAS, There are in existence an Agreement or Amendments (hereinafter referred to solely as "Agreements") by and between the City and Township through which the City has provided wastewater collection and treatment and sludge disposal services to Township; and,

WHEREAS, Said Federal Rules and Regulations apply to the entire Delaware and Schuylkill River tributary drainage areas which include the Township's area served by the City's wastewater collection and treatment system; and,

WHEREAS, In order to comply with Federal, State and local laws and regulations and EPA Rules and Regulations, the City and Township must conduct a sewer system evaluation survey and rehabilitation as required by EPA regulations and other applicable laws and also must implement a User Charge System and must coordinate with the City in their Pretreatment Program implementation of a Federal Facilities Cost Recovery Plan as required by EPA Regulations and Memoranda; and.

WHEREAS, When Township is in compliance as set forth above, it may be eligible for reimbursement under the City's existing and future Grant Agreements for certain authorized eligible costs incurred by it for the said compliance; and,

WHEREAS, The City and Township have now been charged by Federal and State mandates with the legal responsibility to restore and maintain the chemical, physical and biological integrity of our waters and water resources, and also to insure that to the fullest extent possible they prevent, reduce and eliminate pollution in said water resources, and to plan the development and use (including restoration, preservation and enhancement) of said waters and water resources, and to improve the purity of such waters; and,

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WHEREAS, The aforesaid conditions could not have been foreseen by the parties when the existing Agreements were originally executed and/or amended. Further, the aforesaid improvements and expansion of the City's present wastewater treatment facilities conditions are caused by Federal pollution control legislation, State and local government regulations and requirements. Further, changes in the population density, increases in the cost of money and increases in the cost of operating wastewater treatment plants have exacerbated this problem. The foregoing circumstances have caused extreme increases in the expense and changes in performance of Agreements by the City and have added restrictions and responsibilities upon both the City and Township in regard to methods of wastewater collection and treatment and sludge disposal; and,

WHEREAS, The provisions and conditions either stated or implied in the existing Agreements do not reflect the current fair share of costs which ought to be allocated to and borne by Township for the construction, operation and maintenance of the City's wastewater treatment facilities, which has caused the City to subsidize that portion of the deficit resulting from improved treatment of the wastewater collected from Township, and has caused unreasonable increases in rates upon other users; and,

WHEREAS, Performance of said existing Agreements is rendered impossible by the said laws and changes and it is necessary to empower the City to enter into

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new agreements to insure the proper restoration and efficient maintenance of the chemical, physical and biological integrity of our waters and waterways, and improve, restore, preserve and enhance the purity of such waters and waterways, and insure that applicable Federal, State and local laws and regulations, and EPA Rules and Regulations, are implemented in portions of any waterway tributary to the City's wastewater facilities, to determine fair and equitable cost and charge provisions to meet current and future conditions, and to supercede, repeal, revise and replace the above-mentioned existing Agreements in order to comply with present laws and regulations in this said new Agreement;

NOW, THEREFORE, It is mutually covenanted and agreed by and between the parties hereto as follows:

Except for services rendered and unpaid under existing Agreements, the City and Township hereby concurrently release one another from any and all rights, privileges, responsibilities or liabilities, either stated or implied in all Agreements by and between the City and Township for wastewater collection and treatment and sludge disposal, and hereby covenant and agree to enter into a new Agreement for wastewater collection and treatment and sludge disposal. Said Agreement shall be as follows:

#### ARTICLE 1

# GOVERNMENT GRANTS, SUBSIDIES, PERMITS AND

RELATED MATTERS

# 1.01. Applications

The City may make application in conjunction with the Township to the Commonwealth of Pennsylvania and to the United States of America and their

appropriate agencies for grants, subsidies or other payments, and for all we the permits and approvals with respect to the planning, design, acquisition, Grant approximation and maintenance of the expansion of the City's water pollution control facilities. Further, the City may receive the proportionate share of Township's grants, subsidies or other payments with respect to the construction, acquisition, operation and maintenance of the City's water pollution control plants and appurtenant facilities. The Township shall cooperate fully therein, to the extent of their respective interests in such individual projects.

# 1.02. Application of Grant Proceeds

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After receipt by the City, the City shall within thirty (30) days reimburse to Township the maximum allowable percentage of all authorized costs incurred by Township in compliance with the provisions of this Agreement as provided for under existing applicable laws and grant agreements and deemed eligible by EPA for reimbursement under such existing laws and grant agreements.

All funds received by Township from the City's existing and future Federal grant agreements are subject to Federal and City audit as to authenticity and eligibility of claims as required by laws and regulations.

Any action by the City that may jeopardize or delay the reimbursement by EPA of any grant proceeds attributable, in whole or in part, to costs incurred by the Township in compliance with the provisions of this Agreement shall be deemed a violation. This violation shall be rectified by the City within ninety (90) days. If after ninety (90) days, the City has not rectified the violation, the City shall pay the Township a penalty equal to one and one-quarter percent (1½) per month of the unpaid grant proceeds. Anything in this paragraph to the contrary notwithstanding, the City shall not be obligated to pay any penalty on

delayed reimbursement to the Township that results from any action taken by the City to determine its legal rights under federal or state water pollution laws.

# 1.03. Compliance with Laws and Regulations

The City and Township shall comply with all applicable Federal, State and local laws and regulations as well as all EPA Rules and Regulations either now in existence or as may be imposed in the future. Township further agrees to provide any reports, data, surveys or studies required by the City and/or appropriate Federal and State agencies. The City agrees to provide any existing reports, data, surveys or studies needed by the Township to fulfill the requirement of this Agreement. This may include, but not be limited to, data for construction grant requirements, National Pollutant Discharge Elimination System requirements. Sludge Disposal Permit requirements and industrial pretreatment requirements. The cost of such reports, data, surveys or studies is to be reimbursed to Township by the City to the extent of the funds obtained from Federal or State agencies for that purpose.

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# 1.04 Compliance with Regulations and Laws

In order to comply with Federal, State and local laws and regulations and EPA Regulations and other applicable law:

(a) The City shall establish a system of charges to be applied to
 quantity and quality of wastewater which represents Township's share of the
 costs of providing the wastewater collection and treatment, and sludge
 disposal services by the City to Township.

(b) In cooperation with the City, Township shall develop, adopt, implement and maintain a User Charge System which properly distributes the cost of serving each user or class of users in compliance with applicable

law and EPA Regulations. Township shall provide evidence as required by all Federal and State regulatory bodies of the timely development of its User Charge System. Upon initiation of the User Charge System, Township shall maintain such current records as are necessary to document continued user compliance. These records are to be available for periodic examination by the City by mutual arrangement.

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(c) If required by EPA, Township agrees to develop, adopt, and implement a system for the collection, metering, sampling, retention and payment of the Industrial Cost Recovery Charges in compliance with EPA Rules and Regulations and other applicable laws; and Township shall provide evidence as required by all regulatory bodies, as well as the City, of the timely development of its Industrial Cost Recovery System. Upon initiation of the Industrial Cost Recovery System, Township shall maintain such records as are necessary to demonstrate continued compliance. Such records are to be available for inspection by the City when requested.

(d) Township, shall conduct a Sewer System Evaluation Analysis and Rehabilitation Program in compliance with EPA Rules and Regulations.

(e) Township shall coordinate with the City the implementation of a Federal Facilities Cost Recovery Plan as required by EPA Regulations and Guidance Memoranda to recover those project costs allocated to the treatment of wastes from major activities of the Federal Government-within Township, where applicable.

(f) Failure by Township to comply with any of the terms and conditions of the above provisions which may jeopardize EPA's approval or continuation of an existing or future grant agreement between the City and EPA shall, at the discretion of the City Water Commissioner, be deemed a "" violation of the above provisions. The City retains the right to terminate

in part or in whole any or all wastewater services between Township and the City as a result of violations of the above provisions; provided, however, that the City shall first give Township ninety (90) days notice in writing, by certified mail, of the violation or violations. If the Township cures the violation(s) within the ninety (90) days notice period, the Agreement shall continue in affect.

(g) All costs or penalties incurred by the City because of termination and/or restoration of any and all wastewater services between the City and Township as a result of violations of the above provisions shall be payable to the City by Township within one hundred eighty (180) days of such billing by the City. Penalties shall be added to the unpaid balance thereafter at the rate of one and one-quarter percent  $(1\frac{1}{2}\frac{6}{7})$  per month.

#### ARTICLE 2

# WASTEWATER CHARGES AND PAYMENTS

# 2.01. Wastewater Service

(a) Township shall pay quarterly to the City a Wastewater Service Charge for the conveyance, treatment and disposal of its wastewater delivered to the City. The Wastewater Service Charge shall be determined in accordance with past and estimated future costs of conveying and treating wastewater and disposing of resultant sludge and shall include charges applicable in part to quantity and quality of the wastewater flow delivered by Township and in part to contractual capacities as set forth in Article 3, Section 3.02, as well as the attached Addendum. Said wastewater charges shall include but not be limited to: (1) depreciation and return on facilities; (2) costs of operation, maintenance, repairs, replacements and

removals of the City's conveyance and treatment facilities; and, (3) appropriate shares of employee benefits, departmental overhead and other non-direct expenses.

(b) Wastewater Service Charges by the City shall be reviewed no less frequently than biennially, and said Wastewater Service Charges may be increased or decreased, if necessary.

(c) The City will render billings to Township on a quarterly basis. Any lump sum charges shall be pro-rated over the four quarters of the year. These billings shall be based upon actual quantity and quality and/or contractual capacities or, when necessary, upon estimates thereof.

(d) Billings shall be payable to the City by Township within thirty
(30) days. Penalties shall be added to the unpaid balance thereafter, at a rate of one and one quarter percent (12%) per month.

(e) The City shall provide notice to Township of any change in rates at least ninety (90) days in advance of their becoming effective.

(f) City wastewater charges for the conveyance, treatment and disposal of wastewater received from Township shall become effective July 1,1981.

#### ARTICLE 3

CONSTRUCTION, OPERATION AND MAINTENACE

· OF TOWNSHIP'S CONVEYANCE SYSTEM

AND RELATED MATTERS

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Township shall design, construct, own, operate and repair at its sole cost and expense sanitary sewers and connections to the City system necessary to convey its wastewater to the City. The locations of approved points of connect-

ion and provisions concerning these connections are described in the Addendum attached hereto and made a part hereof.

No additional points of connection shall be made without prior written approval from the City Water Commissioner. If certain of Township's connections are determined by the City or any governmental regulatory agency to be maintenance problems or sources of unauthorized discharges caused by the Township or any of its users, the City shall have the right to notify Township that such connection must be disconnected and relocated and Township shall do so forthwith, at the sole expense of Township.

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# 3.02. Allowable Quantities

The City shall also have the right to establish quantities, qualities and flow rates of wastewater received from Township, specific details of which are included in the attached Addendum. In the event that Township exceeds the quantities, qualities or flow rates set forth in the attached Addendum, the City shall have the right to impose any sanctions as set forth in Sections 1.04(f) and (g) as well as any other provision of this Agreement pertaining to wastewater charges and penalties.

3.03. Metering and Sampling

Plans and specifications for a chamber or chambers for metering and sampling shall be submitted to the City by Township for approval. Upon approval by the City, such chamber or chambers may be placed at each point of connection to the City system.

(a) Chambers shall include approved meters for measurements of wastewater quantities, and telemetry equipment for transmitting flow data to a regional control center in the City. Chambers shall also be equipped with automatic sampling equipment.

(b) The City shall install all chambers and equipment at the sole cost of the Township.

(c) The City shall:

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 Record periodically the meter readings of watewater flowing through said meters;

2. Periodically take wastewater samples for analyses; and,

2. (a) The City shall notify the Township prior to sampling the Township's wastewater and reading the flow meters or measuring flow attributable to the Township. The Township shall have the option of accompanying the City and splitting samples. If the Township does not exercise this option, it shall be bound by the City's results.

3. Perform the analysis of samples according to standard methods as prescribed in the current edition of "Standard Methods for the Examination of Water and Wastewater," published by American Public Health Association, and subject to the provisions of this section, the City's findings in such analysis shall be binding on both parties to this Agreement.

(d) Send flow data utilized in the billing to Township with each ... billing.

The City will own all the aforesaid equipment, wherever located, and will inspect, calibrate, maintain and repair such meters and devices as part of its operating costs.

Subject to the provisions of this section, the City shall estimate flow and quality conditions when accurate records are unavailable for any reason whatsoever.

The City shall have the option of approving Township's schedule for the installation of such equipment. Township shall have a right to inspect meters and check calibration.

## ARTICLE 4

# EXPANSION, OPERATION AND MAINTENANCE

# OF CITY PLANTS AND RELATED MATTERS

4.01. Design, Construction, Operation and Maintenance of Water Pollution Control Plants

The City will plan, design, and construct the expansion of City water pollution control plants and appurtenances and will thereafter operate, maintain, repair and improve such expanded plants pursuant to the guidelines of, and with the cooperation of, the Delaware River Basin Commission, the Pennsylvania Department of Environmental Resources and the United States Environmental Protection Agency and other responsible governmental agencies.

# ARTICLE 5

# FUTURE SERVICE REQUIREMENTS, FUTURE

## EXPANSION AND RELATED MATTERS

5.01 Future Service Requirements and Related Matters

The City and Township shall, from time to time, review system performance and the City's and Township's current and future requirements, both in terms of additional future flows of wastewater and higher standards of wastewater treatment and disposal. Township shall:

(a) pay its proportionate share of the total project costs of such expansion; and,

(b) assist in the financing of such project costs.

#### ARTICLE 6

## WASTEWATER QUALITY RESTRICTIONS

6.01. Uniform Standards

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Township shall adopt rules, regulations and resolutions governing sewer connections and the admission of wastewater into the sewers of Township which shall bar from the sewers of Township such substances as are barred by the City from its sewers according to the Federal, State and local laws and regulations and EPA Rules and Regulations existent or adopted in the future.

Township agrees to submit documentation to demonstrate enforcement and compliance with all appropriate rules and regulations and resolutions to the City pursuant to the City's National Pollutant Discharge Elimination System Permits \_ and/or Sludge Disposal Permits.

6.02. Damages Due to Barred or Harmful Substances

Any costs or damages incurred by the City as a result of Township's facilities not complying with Article 6, Section 6.01 shall be billed to Township and shall be paid to the City by Township within thirty (30) days of such billing by the City. Penalties shall be added to the unpaid balance thereafter, at the rate of one and one-quarter percent  $(1\frac{1}{2}\%)$  per month.

## ARTICLE 7

#### SLUDGE DISPOSAL

7.01. Utilization of Wastewater Sludge Generated by City Facilities

Township recognizes the importance and urgent need to utilize sludge in a timely and proper manner. Township shall use its best efforts to cooperate fully with City in any environmentally sound sludge utilization program involving Abington's proportionate share of sewage sludge, which meets Federal and State standards within area served by Township.

# ARTICLE 8

#### MISCELLANEOUS

8.01. Inspection and Audit

Complete records and accounts relating to each party's responsibilities under this Agreement shall be kept. Each party shall at all times have the right to examine and inspect said records and accounts and their physical facilities.

If required by any law or regulation, Township shall make said records and accounts available to Federal and State grant auditors.

8.02. Arbitration of Dispute

If any dispute shall arise between the parties hereto, touching the terms, conditions and covenants of this Agreement, the same shall be submitted to a Board of Arbitration. The Board of Arbitration shall be composed of three (3) arbitrators, one appointed by the Water Commissioner, one by Township, and the third to be agreed upon jointly by the arbitrators selected by the Water Commissioner and Township.

The arbitrators representing Township and the City shall be named within five (5) days from the request for the appointment of such Board. If after a period of ten (10) days from the date of the appointment, the two (2) arbitrators appointed by the City and Township cannot agree on the third arbitrator, then either appointed arbitrator may request the American Arbitration Association or its successor in function to furnish a list of three (3) members of said Association who are residents of Pennsylvania from which the third arbitrator, shall be selected.

The arbitrator appointed by the Township shall then eliminate one (1) name from the list furnished by the American Arbitration Association within five (5) days after its publication, following which the arbitrator appointed by the City ;

shall eliminate one (1) name from the list within five (5) days thereafter. The individual whose name remains on the list shall be the third arbitrator and shall act as the Chairman of the Board of Arbitrators.

The Board of Arbitrators, thus established, shall commence the arbitration proceedings within ten (10) days after the third arbitrator is selected and shall make its determination within thirty (30) days after the appointment of the third arbitrator. The decision of such arbitrators shall be final and binding upon the parties.

8.03. Claims, Insurance and Related Matters

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1. Township agrees to defend and/or join in defending and also indemnify the City and save it harmless from and against all claims, actions, causes, suits, demands, losses, interest, penalties and liabilities pursuant to performance of this Agreement by reason of:

(a) The City's inability, due to causes beyond its control, to perform any of the provisions of this Agreement;

(b) Injury (including death) to persons and damages to property resulting from any operations under this Agreement, whether due to the negligence of the City, Township; its employees, servants or the inherent nature of said operations;

(c) EPA or Pennsylvania Department of Environmental Resources action of any kind whatsoever, direct or indirect, for any work undertaken by Township, its contractors or consultants, necessary and required by this Agreement due to rejection of said work by the EPA or Pennsylvania Department of Environmental Resources;

(d) Any grant fund, or any portion thereof, received by Township and later determined to be ineligible for reimbursement by the appropriate regulatory agency or grant auditors.

• 2. Nothing hereinabove set forth shall limit or debar the City from resorting to any appropriate remedy in law or equity, or any combination of remedies for non-compliance with Section 8.03 of this Agreement.

8.04. No Transfer of Rights

No provisions of this Agreement shall be deemed to:

1. Confer upon any third person any right against Township or the City or to authorize any such third person to institute any suit against Township or the City.

2. Permit or authorize Township to confer, transfer, convey, assign, or license any third party any rights obtained under this Agreement.

8.05. Term.

This Agreement shall become effective immediately and shall continue in force and effect for seven (7) years commencing on the date hereof and shall thereafter continue until termination by either of the parties hereto giving the other at least six (6) months written notice of its intention to do so.

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8.06. No Joint Ownership

No provision of the Agreement shall be construed to create any type of joint ownership of any property, any partnership or joint venture, or create any other rights or liabilities except as expressly set forth herein.

8.07. Severability

Should any provision hereof for any reason be held illegal or invalid, no other provision of this Agreement shall be affected; and this Agreement shall then continue in full force as if such illegal or invalid provision had not been contained herein.

8.08. Successors and Assigns

Except as set forth in Section 8.04, all the covenants contained in this Agreement shall extend to and bind the respective successors and assigns of the

parties hereto with the same effect as if the words "successors and assigns" had, in each case, been specifically mentioned.

8.09. Waiver

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The failure of a party hereto to insist upon strict performance of this Agreement or of any of the terms or conditions hereof shall not be construed as a waiver of any of its rights herein granted.

#### ARTICLE 9

9.01. Addendum

Notwithstanding anything herein contained to the contrary, it is further understood and agreed that Addendum No. 1 attached hereto is hereby incorporated by reference as though fully set forth herein.

IN WITNESS WHEREOF, The City of Philadelphia has caused this Agreement to be executed by its Water Commissioner pursuant to an Ordinance; and the appropriate officers of the Township of Abington have executed this Agreement on behalf of the Township, and have hereunto affixed the corporate seal of the said

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v.

Township duly attested by the appropriate officer thereof, the day and year first above written.

CITY OF PHILADELPHIA By: WILLIAM J. MARRAZZO Water Commissioner

Approved as to form: MARK A. ARONCHICK Acting City Solicitor

By: 12 PHILE MARTHA W. BUSH Deputy City Solicitor

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Attest:

May 10, 1983

#### ADDENDUM NO. 1.

# Township of Abington, County of Montgomery, Commonwealth of Pennsylvania

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Notwithstanding anything contained herein to the contrary, this Addendum is made part of this Agreement between the City of Philadelphia and the Township of Abington, County of Montgomery, Commonwealth of Pennsylvania.

1. Points of connection of the City Wastewater System and maximum flow capacities are shown on a plan titled "Comprehensive Plan for Sanitary Sewer System Abington Township, Montgomery County, Pa.," attached hereto and marked Exhibit 1.

2. The Township Engineer and the Water Commissioner shall jointly have the right to revise the above mentioned plan as to points of connection and quantity of wastewater at various points of connection. Provided, however, that the total maximum flow of nine and two hundred forty-seven thousandths cubic feet per second (9.247 cfs) and the total flow of four million four hundred fifty-three thousand gallons per twenty-four hour day (4.453 mgd) to be received by the City from the Township are not exceeded.

3. In accordance with item 2 above maximum flow capacity to be permitted at connection P-11 (Pine and Kingfield Roads) shall be revised to 0.602 cubic a feet per second.

4. The drainage area covered by this Agreement shall be from the area of the watershed of the Pennypack Creek in the Township of Abington, the Borough of Rockledge and a portion of the Tacony Creek watershed in the Borough of Rockledge, and the Abington portion of the Tacony Creek watershed adjoining the Borough of Rockledge.

5. Township's sanitary sewer in the Township in Fox Chase Road and Shady Lane extending approximately fifteen hundred feet to the Philadelphia-Montgomery County Line shall continue to convey wastewater from the City and retain a capacity not to exceed 0.185 cubic feet per second in said sewer as to convey wastewater from the City in the watershed draining to this sewer.

6. City's sanitary sewer in the Township beginning near the Philadelphia-Montgomery Line near Strahle Street and extending northwardly approximately one thousand feet generally parallel with the Philadelphia, Newtown and New York Railroad to a junction with Township's sanitary sewer in Shady Lane shall continue to convey wastewater from the City and retain a capacity not to exceed 0.185 cubic feet per second in said sewer as to convey wastewater from the City in the watershed draining this sewer.

7. The City shall indemnify and save harmless the Township from any and all claims by reason of the inability of the Township to receive and convey wastewater from the City. City further shall indemnify and save harmless the Township from any and all claims for injuries (including death) to persons or damage to property arising out of any sewer construction work undertaken by the City or its contractors within the limits of the Township.

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8. This Agreement shall be amended as to areas and quantities of wastewater as the need arises for serving additional areas of the Pennypack Creek watershed beyond the limits of the Township of Abington and the Borough of Rockledge.

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9. Provisions relating to connections to the City's wastewater system at Pine Road and Lee Lynn Lane and at Pine Road and Buckley Drive only.

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It is agreed that the terms of section 3.03 of the attached agreement shall be waived, except for subsection (c), to allow the Township to design, construct and maintain, subject to City approval, the chambers at Pine Road and Lee Lynn Lane and at Pine Road and Buckley Drive. In order to permit the billing of wastewater flows township shall supply to the City, each year during the first week in January, a listing of the number of houses and of apartment units in the area(s) contributing wastewater through the two above noted chambers. For houses, the City shall estimate wastewater flow by assuming three people per household and one hundred gallons usage per person daily. For apartment unit and one hundred gallons usage per person daily. City reserves the right to meter wastewater flows when it believes there is sufficient flow to warrant such metering. Township agrees that such wastewater flows, whether determined by metering or the above described estimation method, shall be used for purposes of billing Township.

10. In accordance with Sections 1.03 and 2.01 the wastewater service charges to Abington Township shall initially be as follows:

1) An annual lump sum charge; inclusive of depreciation expense, return on investment, sewer maintenance expenses and customer related costs of \$114,300 plus

2) A volume charge of \$0.2543 per each 1000 cubic feet (Ncf) of wastewater delivered plus

3) A capacity charge of \$2,807 per cubic foot per second (cfs) of contracted wastewater capacity. This capacity or capacities to be used for billing purposes shall be that expressed herein in terms of cubic feet per second (cfs) plus

4) A charge of \$66.35 for each 1000 pounds of suspended solids (S.S.) delivered plus

5) A charge of \$49.17 for each 1000 pounds of bio-chemical oxygen demand (BOD) delivered.

In addition to the above requirements the City, the Township of Abington, County of Montgomery, Commonwealth of Pennsylvania and the Township of Cheltenham, County of Montgomery, Commonwealth of Pennsylvania shall have the following provisions:

1. City shall receive wastewater from Abington at a gauging station, constructed and owned by the City at the intersection of Fillmore and Shelmire and convey wastewater from Abington at a maximum rate not to exceed 0.480 cubic feet
per second. Said wastewater shall originate within the Tacony Creek watershed in those portions of Abington and the Borough of Rockledge, which drains naturally to the above described intersection, and shall be conveyed through the sewers of the City to the gauging station at Orville Avenue and Cottman Street, and thence through the sewers of Cheltenham to the boundary line between the City and Cheltenham and into the sewers of the City.

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2. The above paragraph shall in no way serve to diminish the capacity reserved for the City in the Cheltenham sewers; and likewise shall in no way serve to increase the capacity allotted by the City to Cheltenham.

3. The quantity and quality of wastewater received by the City from Abington at the gauging station at Fillmore and Shelmire Streets, shall be reported to Cheltenham by the City, in order that Cheltenham may in turn bill Abington for conveyance through the sewers of Cheltenham, and for treatment and disposal of wastewater, and that quantity and quality so measured shall be deducted from the total quantity and quality measures and quality originating within the City and passing through the Orville Avenue gauging station.

4. Abington shall pay to Cheltenham, if and when Cheltenham is called upon to make payment of same, its proportion or proportions of the payment to be made by Cheltenham to the City under the Agreement between Cheltenham and the City for the conveyance treatment and disposal of wastewater by the City from Cheltenham.

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2) A volume charge of \$0.1491 per each 1000 cubic feet (Mcf) of wastewater delivered; plus,

3) A capacity charge of \$2,396 per cubic foot per second (cfs) of contracted wastewater capacity. This capacity or capacities to be used for billing purposes shall be that expressed herein in terms of cubic feet per second (cfs); plus,

4) A charge of \$24.74 for each 1000 pounds of suspended solids (S.S.) delivered; plus,

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5) A charge of \$37.59 for each 1000 pounds of bio-chemical oxygen demand (BOD) delivered.

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# Sample Long-Term Agreement

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#### AGREEMENT

This Agreement, made this 16<sup>th</sup> day of May, 1988 and effective as of April 1, 1988 by and between the City of Philadelphia, hereinafter called "City", and the Bensalem Township Authority, created pursuant to the Municipal Authorities Act of 1945, Act of May 2, 1945, P.L. 382 § 1, as amended 53 P.S. § 301, (hereinafter called "Authority").

#### WITNESSETH:

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WHEREAS, City owns and operates wastewater collection and treatment facilities to convey, treat and dispose of wastewater and its by-products, including sludge, collected from retail customers within the City and from outlying municipalities, townships, authorities and entities including Authority; and

WHEREAS, City desires to reserve wastewater treatment capacity for wholesale suburban customers at its Northeast Water Pollution Control Plant (the "Plant") on a long term basis to ensure the most efficient use of the City's resources and facilities, and to provide full and fair compensation to City; and

WHEREAS, the Council of the City of Philadelphia has by Ordinance, Bill No. 1129, approved by the Mayor on May 20, 1987,. authorized the Water Commissioner to enter into new agreements for the sale of wastewater treatment service to suburban communities; and

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WHEREAS, Authority desires to acquire wastewater treatment capacity from City at the Plant to ensure a sufficient wastewater treatment capacity for the communities it serves; and

WHEREAS, the Plant has limited capacity and City has other suburban customers who purchase wastewater treatment service from City; and

WHEREAS, Authority agrees to pay for its reserved wastewater treatment capacity in accordance with this Agreement;

NOW, THEREFORE, intending to be legally bound and in consideration of the mutual covenants contained in this Agreement, the parties agree as follows:

I. WASTEWATER QUANTITY AND QUALITY

A. <u>Reservation of Capacity</u> - City shall reserve wastewater treatment capacity for the Authority at the Plant as set forth in Exhibit "A" attached hereto and incorporated herein ("Flow and Loadings Limits").

B. <u>Capital Contribution</u> - Upon execution of this Agreement, in consideration of the reservation of capacity at the Plant, Authority shall pay FOUR MILLION AND FOUR HUNDRED THOUSAND DOLLARS (\$4,400,000.00) to City for net cost to City for wastewater conveyance and treatment facilities, systems and equipment completed prior to July 1, 1986 and allocated to the service of Authority under the terms and conditions stated herein plus ONE HUNDRED AND FIFTY THREE THOUSAND AND THREE HUNDRED TWENTY DOLLARS

-2-

(\$153,320.00) for wastewater conveyance and treatment facilities, systems and equipment allocated to the service of Authority as stated herein and completed as of March 31, 1988. These sums plus any additional sums paid to City by Authority for facilities, systems and equipment allocated to Authority under this Agreement shall be referred to as Authority's "Capital Contribution."

C. <u>Pro-rata Share of New Facilities and Renewal and</u> Replacement -

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(1) Authority agrees to pay to City its pro-rata share as calculated by City of capital costs for improvement to and/or renewal and/or replacement of facilities, and for new facilities, excepting however, new facilities which are intended solely to increase the marketable and marketed capacity of the Plant. The costs to be allocated shall be net of grants or other reimbursement from the federal or state government. City shall provide Authority with a Facilities Capital Budget not later than thirty (30) days before the beginning of City's Fiscal Year to notify Authority of its share of the cost of capital improvements and renewal and replacement.

(2) Authority agrees to pay actual costs of capital improvements or renewal and replacement within sixty (60) days of receipt of the bill. In the event that Authority does not pay the bill when due, late charges will accrue at the rate of one and one-quarter percent (1-%%) per month sim-

-3-

a) That upon written notice of exceedances from City, Authority shall develop and submit to City within one hundred and eighty (180) days of written notice a written report detailing a plan of action to eliminate the exceedances within five (5) years from the date of submission of the written report. City shall promptly approve or disapprove the plan. Approval of the plan outlined in the report will not be unreasonably withheld. City shall notify the Authority in writing within sixty (60) days of receipt of the plan of approval or disapproval, including reasons for disapproval.

b) If Authority fails to submit in good faith a report outlining a plan to eliminate exceedances, or if City cannot approve such a plan, Authority shall be liable to City for a penalty of One Thousand Dollars (\$1,000.00) per week until such time as Authority submits a plan which City approves.

**II. WASTEWATER TREATMENT CHARGE** 

A. <u>Wastewater Treatment Charges</u> - Authority agrees to pay wastewater treatment charges. The wastewater treatment charges shall consist of:

(1) An operation and maintenance charge based upon
 actual or estimated wastewater flows and actual or estimated
 BOD and SS Loadings of wastewater delivered to the Plant by'
 Authority. The operation and maintenance charge shall be;

-6-

based upon the cost (as defined below at Paragraph II.A. (3)) of conveying and treating wastewater delivered by the Authority. Such charges shall be based upon flow and loading rates of wastewater delivered as well as charges based upon billing, metering, sampling and other related fixed costs.

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(2) A management fee equal to ten percent (10%) of the charges set forth in paragraph (1).

(3) For the purpose of this Agreement the term "Cost" shall include all direct and indirect expenses, including but not limited to, labor, materials, equipment, power, chemicals, rentals, benefits and departmental overhead. Departmental overhead shall include, but not be limited to, administrative, financial, legal, accounting and engineering support.

(4) Authority shall have the right upon written request to review City's method of computing and allocating the cost of providing wastewater treatment service to Authority. "

# B. Billing and Penalties for Late Payment -

(1) City shall render bills to Authority on a quarterly basis for the charges set forth in this Agreement. City reserves the right to bill Authority on a more or less frequent basis in the future.

(2) Bills shall be payable to City by Authority within. thirty (30) days of receipt of bill by Authority. Authority shall notify City in writing of disputed charges prior to their due date. Authority may withhold payment of disputed y

-7-

charges, but in the event the dispute is resolved in favor of City, payment withheld shall be subject to late fees running from the original due date for said charges. In no event shall City be liable to Authority for payment of interest or late fees of any nature on disputed charges.

(3) Late fees at the rate of one and one-quarter percent (1-1/4%) per month simple interest shall be added to any balance unpaid thirty (30) days after billing.

(4) City, upon six (6) months prior written notice to Authority, may increase or decrease late fees to a level reflecting additional or decreased costs incurred by City.

C. <u>Notice of Changes in Rates</u> - City shall provide notice to Authority of any change in rates or billing practices at least ninety (90) days in advance of the effective date of such new rates or practices.

III. METERING, SAMPLING AND BILLING

A. <u>Actively Metered Connection Points</u> - City shall measure wastewater flow and loadings by metering and sampling at "Actively Metered Connection Points" as set forth in Exhibit C for so long as City, in the reasonable exercise of its sole. discretion, determines that this is necessary, practical and/or economical. City shall base its operation and maintenance charges on actual flow and loadings measures where these exist.

B. <u>Unmetered Connection Points</u> - City shall estimate wastewater flow and loadings for "Unmetered Connection Points."

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as currently set forth in Exhibit C and for such "Actively Metered Connection Points" as City may determine it is unnecessary, impractical and/or uneconomical to meter and/or sample wastewater flow and loadings pursuant to III.A. (collectively "All Unmetered Connection Points".) City shall base its operation and maintenance charges on estimates where no actual measures of flow and loadings exist.

Until April 30, 1989, City shall estimate flow and loadings at All Unmetered Connection Points using Current Estimated Data as set forth in Exhibit D; as soon thereafter as is practicable, City shall estimate flow and loadings at Unmetered Connection Points using Future Estimated Data as set forth in Exhibit E. City may confirm estimated data with portable temporary flow meters or through other available technology. Authority shall supply City with information on the dates set forth and as required in Exhibit E ("Required Information").

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# Additional Metered Connection Points -

(1) City may require Authority to meter all or some Unmetered Connection Points ("Additional Metered Connection Points") if, the City deems it necessary, practical or economical to measure rather than estimate wastewater flow. Prior. to requiring metering for these reasons, City shall serve Authority with a written notice of intent to require metering, and shall allow, within sixty (60) days, Authority

-9--



the opportunity to present written and/or oral comment as to whether metering is necessary, practical or economical. City shall retain the right to make the ultimate determination subject to the Authority's right to arbitrate as set forth at § VI.B. supra.

(2) If Authority fails timely to provide City with Required Information, City may, at its sole option, either continue to estimate wastewater flow and loadings using its best judgment or require Authority to add as "Additional Metered Connection Points" those Unmetered Connection Points for which it has failed to supply all Required Information. Prior to requiring metering, City shall serve Authority with a written demand for required information and shall allow Authority up to sixty (60) days to provide Required Information.

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D. <u>Additional Metered Connection Points - Metering and</u> <u>Maintenance Sampling</u> - Authority and City shall have the following rights and responsibilities as to any Additional Metered Connection Points required by City.

(1) Authority shall submit for approval by City, plans and specifications for the design and installation of equipment for metering and sampling wastewater and for telemetering the metered signal to City. Approval of said plans and specifications shall not be unreasonably withheld.

(2) Upon approval by City, said metering and
 telemetering equipment shall be installed by Authority to
 City's satisfaction.

-10-

(3) All purchase and installation costs for metering and telemetering equipment including equipment installed by City whether installed within or outside of the city limits shall be borne by Authority.

(4) Authority shall pay for and provide a dedicated, leased telephone line approved by City for the purpose of transmitting information from the meter to City. Authority shall also pay for and provide electrical power required to operate the telemetering equipment in Authority.

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(5) City shall have the right to enter the area served by Authority at any time upon reasonable advance telephone notice to read the meters installed by Authority, to record the quantity of wastewater flowing through said meters, to inspect metering and telemetering equipment and to maintain telemetering equipment. City may require Authority to certify accuracy of meters through state-approved third party on an annual basis.

(6) Authority shall own and maintain metering equipment and the electronics associated with the meter installed in area served by Authority. City shall own and maintain telemetering equipment installed in area served by Authority which shall consist of equipment which converts the signal produced by the meter into a signal which can be transmitted over telephone lines. City shall also own and maintain all equipment located in City necessary to receive and record telemetered information.

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E. <u>Sampling</u> - City shall have the right to enter the area served by Authority at any time upon reasonable advance telephone notice to sample Authority's wastewater. Upon Authority's request and if Authority's representative is present, City shall provide Authority with a portion of sample ("split sample").

F. <u>Billing Information</u> - Within sixty days of receipt of Authority's written request, City shall provide to Authority copies of wastewater flow and loadings data and computations utilized in billing Authority.

IV. WASTEWATER QUALITY RESTRICTIONS

A. <u>Interjurisdictional Pretreatment Agreement</u> - City and Authority shall enter into the contract attached hereto and incorporated herein as Exhibit "F" ("Interjurisdictional Pretreatment Agreement"). Authority agrees to comply with all of the provisions contained therein.

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# B. Sludge Utilization -.

(1) Authority recognizes the importance and urgent need to utilize sludge in a timely and proper manner. Immediately upon signing of this Agreement, Authority and City shall work to develop an environmentally sound sludge utilization program utilizing at least the Authority's pro rata share of sludge produced by the City and meeting federal and state standards within the area served by Authority. Authority shall propose a sludge utilization program which does not require a Pennsylvania Department of Environmental Resources

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permit by July 15, 1988 and thereafter shall continue to work with City to develop other applications for sludge utilization in the area served by Authority.

(2) Authority shall promote and support City's community education program for sludge by identifying community groups for City which have an interest in sludge utilization and aid in providing City with appropriate facilities in Bensalem Township at which City may conduct educational programs.
(3) City acknowledges that Authority has no direct authority or control over Bensalem Township and its sludge utilization program. Authority agrees to exert its best efforts to facilitate and achieve cooperation in sludge utilization program between City and Bensalem Township.

# V. PAYMENT OF MONIES DUE AND OWING

Upon execution, Authority and City agree to fulfill their respective financial obligations under a prior agreement of December 10, 1982 as modified herein. Authority shall pay a 10% management fee and City shall adjust the capital portion of the lump sum charge in consideration of the Capital Contribution made under this Agreement and effective retroactively as of July 1, 1986.

VI. MISCELLANEOUS

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A. <u>Inspection and Audit</u> - The parties agree that each shall keep complete records and accounts concerning their respon- , sibilities under this Agreement. Each party shall at all times

-13-

have the right to examine and inspect said records and accounts upon 30 days prior written notice. If required by any law or regulation, Authority shall make said records and accounts immediately available to federal and state auditors.

B. <u>Arbitration of Disputes</u> - If any dispute shall arise between the parties hereto, concerning terms, conditions and covenants of this Agreement or alleged violations thereof, the same shall be submitted to a Board of Arbitration. The Board of Arbitration shall be composed of three (3) arbitrators, one appointed by City, one by Authority, and the third to be agreed upon jointly by the arbitrators selected by City and Authority.

The arbitrators representing Authority and City shall be named within five (5) days from the request for the appointment of such Board. If after a period of ten (10) days from the date of the appointment, the two (2) arbitrators appointed by City and Authority cannot agree on the third arbitrator, then either appointed arbitrator may request the American Arbitration Association or its successor to furnish a list of three (3) members of said Association, who are not residents of either Philadelphia, Bucks Counties or Bensalem Township, from which the third arbitrator shall be selected.

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The arbitrator appointed by Authority shall then eliminate one (1) name from the list furnished by the American Arbitration Association within five (5) days after its publication, following which the arbitrator appointed by City

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shall eliminate one (1) name from the list within five (5) days thereafter. The individual whose name remains on the list shall be the third arbitrator and shall act as the Chairman of the Board of Arbitrators.

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Each party shall bear the costs of its own arbitrator and the parties shall equally divide the costs of the third arbitrator and all other common costs.

The Board of Arbitrators, thus established, shall commence the arbitration proceedings within ten (10) days after the third arbitrator is selected and shall make its determination within thirty (30) days after the appointment of the third arbitrator. The decision of such arbitrators shall be final and binding upon the parties, except in the case of fraud.

# C. Claims, Insurance and Related Matters -

(1) Authority agrees to defend, indemnify and save harmless City from and against all claims, actions, causes, suits, demands, losses, interest, penalties and liabilities arising from performance of the terms and conditions of this Agreement by reason of:

a) City's inability, due to causes beyond its
 control, to perform any of the provisions of this
 Agreement;

 b) Injury (including death) to persons and damages to property resulting from operations under this Agreement to convey Authority's wastewater to the Plant,

-15-

whether due to the negligence or gross negligence of City or Authority or their employees, servants or agents or the inherent nature of their operations;

c) EPA or Pennsylvania Department of Environmental Resources action of any kind whatsoever, whether direct or indirect, for any work undertaken by Authority, its contractors or consultants, necessary and required by this Agreement due to rejection of said work by the EPA or Pennsylvania Department of Environmental Resources;

d) Any grant fund, or any portion thereof, received by Authority and later determined to be ineligible for reimbursement by the appropriate regulatory agency or grant auditors.

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(2) City and Authority agree that in the event of EPA or Pennsylvania Department of Environmental Resources action or any other governmental regulatory action against City of any kind whatsoever, for activities carried out under this Agreement either by City or Authority or their employees, servants or agents, City and Authority shall equitably apportion responsibility for payment of any costs, fines, penalties or damages arising from such action.

(3) Anything in this Agreement to the contrary notwithstanding, Authority shall not be liable for injuries (including death) or property damage occurring during the course of treatment at the Plant, except, to the extent that such injuries and damages increase City's operating costs,

-16-

Authority shall be responsible for its proportionate share of those increased costs.

(4) Nothing set forth in this Agreement shall limit or debar City from resorting to any appropriate remedy in law or equity, or any combination of remedies for non-compliance with this section VI.C of this Agreement.

(5) Nothing contained in this Agreement shall be deemed to confer upon any third person any right against City or Authority or to vest in said third person any cause of action against City or Authority or to authorize any such person to institute any suit or suits against City or Authority.

(6) City shall have the right to approve counsel appointed on its behalf pursuant to this Agreement, unless appointed by Authority's insurer.

D. <u>No Transfer of Rights</u> - Authority shall not confer, transfer, convey, 'assign or license to any third party any rights obtained under this Agreement including but not limited to assignment of wastewater treatment capacity without the express prior written consent of the City. Such consent shall not be unreasonably withheld.

E. Term -

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(1) Except as set forth in Section V, this Agreement shall be effective as of April 1, 1988, and shall continue in force and effect until terminated as hereinafter set forth.

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(2) City shall have the right to terminate this Agreement for "cause" at any time, but only upon five (5).

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years' written notice. "Cause" shall mean:

a) continuing exceedances of the flow and loadings limits which are not corrected as required by this
Agreement and which impair the safe and efficient operation of the system or which cause City to be in violation of permits issued by PaDER or EPA; or
b) failure by Authority to meet its financial
obligations under this Agreement for a period of six
consecutive months; or

c) failure by Authority to comply with a decision or determination of a Board of Arbitration or court of competent jurisdiction rendered under this Agreement within three months of the date of the decision or determination unless otherwise specified by the Board of Arbitrators.

(3) In the event that City terminates this Agreement for cause, Authority shall forfeit its capital contribution.

(4) Authority or City may terminate this Agreement for any reason after it has been in effect for thirty-five (35) years, but only by giving written notice five (5) years before the effective date of termination.

(5) In the event this Agreement terminates for any reason, except for cause as set forth in subparagraph (2) of this Section VI. E., City shall pay to Authority an amount equal to the Authority's share of the then-remaining value of all systems, equipment and facilities used to convey and treat. Authority's wastewater under this Agreement (the

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"Assets"). The remaining value of the Assets shall be calculated as follows:

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a) The remaining useful life of each component of the Assets shall be separately calculated.

b) The original and all subsequent contributions by the Authority towards the cost of acquisition, renewal and replacement of each component of the Assets shall be multiplied by a fraction whose numerator is the remaining useful life of the component, and whose denominator is the sum of the years the component has been in service since April 1, 1988, plus the remaining useful life.

c) The amount thus calculated shall be paid to the Authority in cash on the effective date of termination.
d) The calculation required hereunder shall be made by an independent appraiser selected jointly by the City and the Authority. The expense of the appraisal shall be divided equally between the City and the Authority. If the City and the Authority cannot agree on an appraiser, then one shall be selected by the same method to be used to select a third arbitrator under Section VI.B. of this Agreement.

F. <u>Ownership</u>, <u>Management and Control of Plant Facilities</u> -. City retains sole ownership and control of the Plant and all other sewage treatment facilities in the City and agrees to operate, maintain, repair, and improve its facilities associated

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with service to Authority. City retains the sole and exclusive right to make all managerial and other decisions regarding its sewage treatment facilities, including but not limited to those decisions regarding maintenance, upkeep, expansion, or replacement of all or a portion of it sewage treatment facilities.

G. <u>Severability</u> - In the event any provision hereof is held illegal or invalid, no other provision of this Agreement shall be affected; and this Agreement shall then continue in full force as if such illegal or invalid provision had not been contained herein.

H. <u>Successors and Assigns</u> - All the covenants contained in this Agreement shall extend to and bind the respective successors and assigns of the parties hereto with the same effect as if the words "successors and assigns" had, in each case, been specifically mentioned.

I. <u>Waiver</u> - The failure of a party hereto to insist upon strict performance of this Agreement or of any of the terms or conditions hereof shall not be construed as a waiver of any of its rights herein granted.

J. <u>Notices</u> - All notices, payments and communications required to be given in writing under this Agreement shall be sent by United States mail, postage prepaid, or delivered by hand delivery with receipt obtained, to the addresses below or at such other addresses as City or Authority may designate in writing ' from time to time:

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If intended for City:

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Water Commissioner ARA Tower 1101 Market Street Philadelphia, Pennsylvania 19107 If intended for Authority: Executive Director

Bensalem Township Authority P.O. Box 846 3830 Hulmeville Road Bensalem, PA 19020

All notices shall be deemed received five (5) calendar days after mailing or upon actual receipt, whichever is earlier.

K. <u>Captions</u> - The captions in this Agreement are for convenience only and are not part of the Agreement. The captions do not in any way define, limit, describe or amplify the provisions of this Agreement or the scope or intent thereof.

L. <u>Entire Agreement</u> - This Agreement and its Exhibits and Addendums, incorporated herein, represent the entire agreement of the parties hereto and there are no collateral or oral agreements or understandings. This Agreement may be amended or modified only in writing signed by both City and Authority.

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IN WITNESS WHEREOF, The City of Philadelphia has caused this Agreement to be executed by its Water Commissioner; and the appropriate officer of the Bensalem Township has executed this Agreement on behalf of the Authority, and has hereunto affixed the corporate seal of the said Authority duly attested by the Appropriate officer thereof, the day and year first above written.

CITY OF PHILADELPHIA

By:

Approved as to form: ulana By: Solicitor

BENSALEM TOWNSHIP

By: FRANK J. HYNES General Manager

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Attest: Edward Rugolph



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#### BENSALEM

# EXCEEDANCE CHARGES ADDENDUM

- I. <u>Volume</u>: As of April 1, 1988, Authority shall be liable to City for the following exceedance charges when Authority exceeds the quantity flow limits set forth in the Flow Limits Addendum:
  - A. \$3,700.00 per unit of flow over the average daily limit during any consecutive 365 day period, such charge to be billed annually. The unit of flow used to determine exceedances shall be each hundred thousand gallons of wastewater flow per day.
- II. <u>Strengths</u>: As of April 1, 1988, Authority shall be liable to City for the following exceedance charges when Authority exceeds the quality flow limits set forth in the Flow Limits Addendum:
  - A. <u>Suspended Solids (SS)</u>: \$480.00 per thousand pounds over the limit;
  - B. <u>Biochemical Oxygen Demand (BOD)</u>: \$900.00 per thousand pounds over the limit.

# III. Charges for Years Subsequent to 1988

During January 1989 and during January of each calendar year thereafter, the exceedance charges stated above will be adjusted in accordance with the changes in the Consumer Price Index for the prior calendar year. The index to be used for this adjustment shall be the Consumer Price Index published by the U.S. Bureau of Labor Statistics for all urban consumers (CPI-U) for the Philadelphia SMSA, all items.

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# \*APPROVED CONNECTION POINTS TO CITY WASTEWATER SYSTEM

I. Actively Metered Connection Points

In the vicinity of:

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- 1. Grant Avenue and James Street
- 2. Townsend and Poquessing Creek

3. Gravel Pike

II. Unmetered Connection Points

In the vicinity of:

1. Kay Street and Poquessing Street

2. Evelyn and Emerson Avenues

3. Knights and Frankford Avenues

- 4. Dunks Ferry Road
- 5. Betz Laboratory
- 6. Doral Apartments

7. Bensalem Shopping Center

8. Colonial Creek Apartments

9. Elmwood Apartments

\*These connection points are billing or account connections which may represent more than one physical interceptor or connection to the sewer system.

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# CURRENT ESTIMATED WASTEWATER FLOW AND LOADINGS DATA

# FOR UNMETERED CONNECTION POINTS ("CURRENT ESTIMATED DATA")

| Billing Account                                                                            | Quarterly Flow<br>mg/qtr.                  | BOD<br>mg/l                     | S.S.<br>mg/1                    | Annual<br>BOD<br>#/yr                              | Loading<br>S.S.<br>#/yr.                          |
|--------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|---------------------------------|----------------------------------------------------|---------------------------------------------------|
| Elmwood Apts.<br>Colonial Creek Apts.<br>Doral Apts.<br>Betz Lab<br>Bensalem Shopping Ctr. | 21.1 mg<br>21.1 mg<br>21.1<br>3.4<br>19.71 | 656<br>537<br>296<br>245<br>269 | 511<br>205<br>314<br>188<br>125 | 461,800<br>378,040<br>203,360<br>27,920<br>176,880 | 359,720<br>144,320<br>221,040<br>21,440<br>82,200 |
| Sub-Total                                                                                  | 86.41 mg                                   |                                 |                                 | 1,248;000                                          | 828,720                                           |
| Gravel Pike<br>Townsend & Poquessing<br>Grant & James St.<br>Sub-Total                     | 64.696<br>79.335<br>27.291<br>171.322 mg   | 353<br>203<br>605               | 185<br>125<br>244               | 762,160<br>537,280<br>550,600<br>1,850,040         | 398,360<br>277,880<br>221,800<br>898,040          |
| Kay & Poquessing<br>Dunks Ferry Road<br>Knights & Frankford<br>Evelvn & Emerson            | 11.9.<br>18.3<br>10.7<br>7.424             | 158<br>137<br>207<br>207        | 126<br>123<br>198<br>198        | 62,720<br>83,640<br>73,880<br>51,280               | 50,000<br>75,080<br>70,680<br>49.040              |
| Sub-Total                                                                                  | 48.324                                     |                                 |                                 | 271,520                                            | 244,800                                           |
| Tota}                                                                                      | 306.056 mg/q                               |                                 |                                 | 3,369,560                                          | 1,971,560<br>#/yr                                 |
| Average Daily                                                                              | 3.35 MGD                                   |                                 |                                 | :                                                  |                                                   |
| Capacity                                                                                   | 6.133 MGD                                  | •                               |                                 | 5,340,000                                          | 3,734,000<br>#/vr                                 |

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# ESTIMATED WASTEWATER FLOW AND LOADINGS DATA FOR ALL UNMETERED CONNECTION POINTS AFTER APRIL 30, 1989 (."FUTURE ESTIMATED DATA")

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For all areas for which City shall estimate wastewater flow and loadings including All Unmetered Connection Points (see III.B. <u>supra</u>), Authority shall provide City with information as required in this exhibit ("Required Information"). As soon after receipt of Required Information as City deems practicable, City shall use Required Information to estimate wastewater flow and loadings. City may revise such estimates after receipt of updated information.

- 1. <u>Flow Data</u>. City shall determine estimated flows based on the following:
  - A. <u>Properties Metered For Potable Water</u> On or before April 30, 1989 and continuing on each anniversary thereof, 'Authority shall provide City, in writing, the addresses and names of each owner (except for names of owners of residential properties) of all properties whose wastewater is directed by Authority to City for processing and which are supplied by Authority with potable water and metered therefor. For each address, Authority shall indicate Connection Point through which

#### EXHIBIT E

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wastewater flows. Authority shall further provide City with all water billing information, including but not limited to total consumption, related thereto.

B. <u>Properties Not Metered For Potable Water</u> - On or before April 30, 1989 and continuing on each anniversary thereof, Authority shall provide City, in writing, with addresses and names of owners (except for names of owners of residential properties) of all properties whose wastewater is directed by Authority to City for processing and which are supplied by Authority with potable water but not metered therefor. For each address, Authority shall indicate Connection Point through which wastewater flows.

Authority shall characterize properties as single or multiple-unit residences (if multiple, number of units), or as commercial, industrial or miscellaneous properties. For residences, the City shall calculate consumption at the rate of 100 gallons per person per day and multiply by 3.6 persons per single family dwelling or 2.5 persons per apartment unit. For commercial, industrial, or miscellaneous properties, Authority in its annual written notice to City, shall provide a brief description of the property and its use including a description of how water is used, and the City shall in its sole discretion, reasonably exercised, calculate consumption. Authority shall supply City with addi-

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tional information regarding properties if requested by City, provided such information is reasonably available to Authority.

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- C. <u>Infiltration</u> By July 1, 1988, and annually by April 30 thereafter, Authority shall provide City in writing with the total sewer miles for each size diameter gravity sewer pipe in all areas served by All Unmetered Connection Points. City shall calculate the discharge into the City of groundwater infiltration into the Township sewers at the rate of 200 gallons per day per inch diameter of sewer pipe per mile.
- D. <u>Modification of Rates</u> Consumption rates, number of persons per household, and infiltration rates are based on guidelines set forth in the standard literature including that published by the Pennsylvania Department of Environmental Resources. City may modify consumption rates, number of persons per household, and/or inflow/infiltration rates at its sole discretion, reasonably exercised, to conform to revised accepted standards as set forth in the standard literature.

sampling program. Each year City shall sample at a standardized connection for no more than a week, City shall analyze the data and, in its sole discretion reasonably exercised, shall determine whether an intensive sampling should be conducted sooner than at five year intervals.

3. By July 1, 1988 and annually by April 30 thereafter, the Authority shall provide City in writing with a listing of any changes in connections of unmetered areas to metered areas or vice versa.

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## INTERJURISDICTIONAL PRETREATMENT AGREEMENT BETWEEN THE CITY OF PHILADELPHIA AND

### THE BENSALEM TOWNSHIP AUTHORITY

This Agreement is entered into this  $16^{th}$  day of  $M_{con}$ , 1988, between the City of Philadelphia ("City") and the Bensalem/Township Authority ("Authority").

#### RECITAL

Whereas, City owns and operates a wastewater treatment system; and

Whereas, Authority currently utilizes this wastewater treatment system pursuant to an agreement between City and Authority dated - (the "Service Agreement"); and

Whereas, City must develop and implement an industrial pretreatment program pursuant to conditions contained in its discharge permit (Permit # PA0026689) issued by the Pennsylvania Department of Environmental Resources; and

Whereas, Authority desires to continue to utilize the wastewater treatment system and recognizes its industrial waste control obligations under 40 CFR 403.

In consideration of the following terms and conditions City and Authority agree:

- Within <u>one year</u> of the adoption by the City of its new wastewater control regulations Authority shall adopt and diligently enforce rules and regulations (hereinafter "regulations") substantially identical to the regulations adopted by City.
- 2. Authority shall explicitly incorporate the following provisions into its regulations:
  - (a) a provision requiring any industrial user responsible for any accidental discharge to notify immediately both City and Authority;
  - (b) a prohibition on the use of dilution as a control technique for compliance with discharge limits, except as allowed by Federal. Pretreatment Standards;
  - (c) a grant of authority to impose mass discharge limits in lieu of, or in conjunction with, concentration discharge limits;
  - (d) a prohibition against and penalty for the knowing transmittal of false information by an industrial user to either City or Authority;

#### EXHIBIT F

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- (e) a grant of explicit authority to Authority to require the industrial user to install all monitoring and pretreatment facilities.
- 3. City and Authority shall periodically (at a minimum of every five years) review their respective regulations and jointly draft and adopt equivalent amendments where necessary to ensure the effective administration and operation of the pretreatment program. Whenever City becomes aware of a problem with the pretreatment program which can be mitigated by a change i: the ordinance, City may draft an amendment which Authority must adopt. If Authority has adopted regulations identical to City's regulations, then, whenever City amends its regulations, Authority shall adopt the identical amendment.
- Authority shall adopt, as part of its regulations, and enforce specific discharge limits at least as stringent as the specific discharge limits established in City regulations.
- 5. Authority regulations shall require that categorical pretreatment standards promulgated by the U.S. Environmental Protection Agency (EPA) by authority of the Clean Water Act Sections 307(b) and (c) be automatically incorporated by reference into Authority's regulations. These standards shall supercede any specific discharge limits in the ordinance which are less stringent than the categorical standards as they apply to the particular industrial subcategory. Authority shall notify all affected industrial users of pertinent categorical standards and monitoring and reporting requirements contained in 40 CFR 403.12 or included as part of the categorical standards.

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- 6. Authority shall adopt in its regulations definitions for "significant industrial user", "industrial user" and "nondomestic user" which are identical to the definitions adopted by City. City may make the final determination as to whether a particular industrial user is a significant industrial user, industrial user or nondomestic user based on information City may request from Authority. City shall control, through industrial discharge permits, industrial waste discharges from each significant industrial user, industrial user or nondomestic user discharging into the sewer.
- 7. If there exists any industrial user discharging to Authority sewer system but located outside the jurisdictional limits of Authority, then Authority shall within 30 days of this agreement notify such jurisdiction of this requirement and provide the City with copies of such notification. Authority shall negotiate and enter into an agreement with this outside jurisdiction. Such agreement shall be substantially equivalent to this Agreement, and shall be jointly executed by Authority, City and the outside jurisdiction. If the outside jurisdiction refuses to negotiate and execute an agreement, then City shall enter into a contract with the industrial user which contains terms and conditions substantially equivalent to City industrial discharge permits.
- 8. Authority shall file with City a certified copy of its ordinance and any amendments thereto, other interjurisdictional agreements, and any contract entered into for the purposes of industrial waste control. If

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Authority maintains, Authority shall provide City access to and copies of, if requested, all industrial monitoring reports including 40 CFR §403.12 compliance reports, self-monitoring reports, baseline reports, records of violations and actions taken, and any other monitoring or reporting requirements imposed by federal, state or local regulations. These records and other relevant information shall be maintained for at least six years.

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- 9. Any authorized officer or employee of City may enter and inspect at any reasonable time any part of the sewer system of Authority. The right of entry and inspection shall extend to public streets, easements, and property within which the system is located. Additionally, City shall be permitted, as appropriate, to enter onto private property to inspect industrial waste discharges. Authority shall provide complete sets of sewer plans and make all necessary legal and administrative arrangements for these inspections. The right of inspection shall include onsite inspection of pretreatment and sewer facilities, observation, measurement, sampling, testing, and access to (with the right to copy) all pertinent compliance records located on the premises of the industrial user or non-domestic dischargers.
- 10. Authority and City hereby agree that the City shall implement a pretreatment program within Authority and shall perform in connection therewith technical and administrative activities which may include: 1) updating the industrial waste survey; 2) providing technical services, such as sampling, process chemical analysis, and engineering advice; 3) permitting; 4) compliance monitoring; 5) enforcement support and 6) monitoring hazardous waste disposal practices. Authority may assume responsibility for conducting the pretreatment program implemented by City at any time upon 90 days advance written notice. To the extent Authority shall administer its own pretreatment program, it shall provide the City in writing a detailed outline of the program 90 days prior to initiating such a program and the City shall have the right to approve or disapprove the program. City may periodically review Authority pretreatment program activities and funding to ensure that Authority and any outside jurisdiction is adequately administering its pretreatment program in conformance with the Federal Pretreatment Regulations (40 CRF 403) and all City requirements.
- 11. City shall review Authority ordinance and amendments thereto, and any interjurisdictional agreements for conformance with 40 CRF part 403, and to ensure inclusion of all other legal provisions mandated by this Agreement. City shall periodically review the enforcement efforts of Authority and any other jurisdiction to ascertain whether pretreatment requirements are being diligently enforced.
- 12. If City determines that Authority has failed or has refused to fulfill any pretreatment obligations, City may develop and issue a remedial plan containing a description of the nature of the pretreatment deficiencies, an enumeration of steps to be taken by Authority, and a time schedule for attaining compliance with all pretreatment requirements. Such plans shall be specifically enforceable in a court r of competent jurisdiction. Where Authority fails to satisfy the terms of the remedial plan, City may, upon thirty days written notice, refuse to accept any industrial waste discharges from Authority.

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- 13. In the event that EPA or Pennsylvania Department of Environmental Resources action results in fines, penalties or costs being assessed against City because of industrial or non-domestic waste discharged from Authority, Authority and City shall equitably apportion responsibility for payment of such fines, penalties or costs. Authority shall fully indemnify, defend and hold harmless City for damages or costs arising from personal and property damage pursuant to the Service Agreement.
- 14. Where a discharge to the wastewater treatment system reasonably appears to present an imminent danger to the health and welfare of persons, or presents or may present an imminent danger to the environment, or threatens to interfere with the operation of the wastewater treatment system, City may immediately initiate steps to identify the source of the discharge, and to hold or prevent said discharge. City may seek injunctive relief against Authority or outside jurisdictions and/or any industrial or non-domestic user contributing to the emergency conditions, and/or may pursue other self-help remedies. Authority shall pay to City the cost of such steps taken to prevent, stop or ameliorate the effects of such discharge.
- 15. Any disputes arising out of this Agreement shall be submitted to binding arbitration performed in accordance with the procedures set forth in the Service Agreement between Authority and City dated
  <u>Moy 16, 1985</u>
- 16. The terms of this Agreement may be amended only by written agreement of the parties. In any event, this Agreement shall be reviewed and revised, as necessary, at least every five years.
- 17. This Agreement modifies only those provisions of the existing Service Agreement between the two parties which conflict with the terms of this Agreement.
- 18. This Agreement will remain in effect so long as the Service Agreement remains in effect. Termination of the Service Agreement shall also result in the termination of this Agreement.

The parties hereto have executed this Agreement on the date shown above.

WILLIAM J. MARRAZZQ, COMMISSIONER WATER OF PHILADELPHIA CITY RANK J. HYNES BENSALEM TOMESHIP ANTHORIT ATTEST

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# APPENDIX C

# List Of Industrial Dischargers And NPDES Permit Numbers

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| Establishment Name<br>Facility Name                                                                                                                                                                                                         | Permit #, Date                                                                                                                                       | Prog.                            | Degree/Treatment Process                              | Avg. Flow           | Max. Flow              | Discharge<br>Stream Name                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------|---------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ALLIED CHEMICAL<br>Allied Chem-Disch o Sewer                                                                                                                                                                                                | PA001201 940601                                                                                                                                      | IW                               |                                                       |                     |                        | FRANKFORD CREEK                                                                                                                   |
| AMERADA HESS<br>AMERADA HESS-DISCH 001<br>AMERADA HESS-OIL SEPARATO                                                                                                                                                                         | PA001142 940615<br>PA001142 940615                                                                                                                   | IW<br>IW                         | 7 / 1H                                                |                     |                        | SCHUYLKILL RVR                                                                                                                    |
| ATLANTIC RICHFIELD &<br>ARCO-API SEPARATOR & BASI<br>ARCO-BIO AERATION -SOUTH<br>ARCO-OUTFALL-NORTH YD SEP<br>ARCO-OUTFALL-NORTH YD SOU<br>ARCO-OUTFALL-WEST YARD OO<br>ARCO-SEPARATOR & SAND FIL<br>ARCO-SOUTH YARD DP 004                 | PA001262 900919<br>PA001262 900919<br>PA001262 900919<br>PA001262 900919<br>PA001262 900919<br>PA001262 900919<br>PA001262 900919                    | IW<br>IW<br>IW<br>IW<br>IW<br>IW | 7 / 1U,1H,2D,3A<br>7 / 1H,1U,2D,3H<br>7 / 1Y,1V       | 5,000,000<br>40,000 | 1,500,000<br>6,700,000 | SCHUYKILL RIVER<br>SCHUYLKILL RVR<br>SCHUYLKILL RVR<br>SCHUYKILL RIVER                                                            |
| B P OIL INC<br>BP OIL TERM-GROUND SURFAC<br>BP OIL TERM-LDG DOCK SEPA<br>BP OIL TERM-RUNOFF SEPARA<br>BP OIL TERM-STORM SEWER                                                                                                               | PA004099 940711<br>PA004099 940711<br>PA004099 940711<br>PA004099 940711                                                                             | IW<br>IW<br>IW<br>IW             | 9 /<br>/                                              |                     |                        | ground surface                                                                                                                    |
| BROUDY, NORMAN DR-ST<br>BROUDY,NORMAN DR-OUTFALL<br>BROUDY,NORMAN DR-STP                                                                                                                                                                    | PA005335 940407<br>PA005335 940407                                                                                                                   | SN<br>SN                         | 4 / 01,09,21,24                                       | 400                 | 400                    | SCHUYLKILL RIVR                                                                                                                   |
| BUDD COMPANY<br>BUDD CO-DISCHARGE 001<br>BUDD CO-DISCHARGE 002<br>BUDD CO-DISCHARGE 003<br>BUDD CO-DISCHARGE 004<br>BUDD CO-DISCHARGE 005<br>BUDD CO-DISCHARGE 006<br>BUDD CO-DISCHARGE 007<br>BUDD CO-DISCHARGE 008                        | PA001138 911107<br>PA001138 911107<br>PA001138 911107<br>PA001138 911107<br>PA001138 911107<br>PA001138 911107<br>PA001138 911107<br>PA001138 911107 | IW<br>IW<br>IW<br>IW<br>IW<br>IW |                                                       |                     |                        | SCHUYKILL RIVER<br>SCHUYKILL RIVER<br>SCHUYKILL RIVER<br>SCHUYKILL RIVER<br>SCHUYKILL RIVER<br>SCHUYKILL RIVER<br>SCHUYKILL RIVER |
| CONTAINER CORP OF AM<br>CONTAINER CORP-DISCH 008<br>CONTAINER CORP-DISCHARGE<br>CONTAINER CORP-DISCHARGE                                                                                                                                    | PA001257 930804<br>PA001257 930804<br>PA001257 930804                                                                                                | IW<br>IW<br>IW                   |                                                       |                     |                        | SCHUYLKILL RIVE<br>Schuykill River<br>Schuykill River                                                                             |
| DELAWARE RIVER PORT<br>HOG ISLAND MARINE TERM ST<br>HOG ISLAND-OUTFALL 007<br>MUN PIER #11 NORTH-STP<br>MUN PIER #12 NORTH-STP<br>MUN PIER #38 SOUTH-STP<br>MUN PIER #78-BLDG #3-STP<br>MUN PIER #98 SOUTH-STP<br>MUN PIER 11 N-OUTFALL 001 | PA002144 920318<br>PA002144 920318<br>PA002144 920318<br>PA002144 920318<br>PA002144 920318<br>PA002144 920318<br>PA002144 920318<br>PA002144 920318 | SN<br>SN<br>SN<br>SN<br>SN<br>SN | 4 /<br>7 / 1W<br>7 / 1W<br>7 / 1W<br>7 / 1W<br>7 / 1W | 1,900               |                        | DELAWARE RIVER<br>DELAWARE RIVER                                                                                                  |
| MUN PIER 12 N-OUTFALL 002<br>MUN PIER 19N-OUTFALL 003<br>MUN PIER 19N-STP<br>MUN PIER 38S-OUTFALL 004<br>MUN PIER 40S-OUTFALL 005<br>MUN PIER 40S-STP<br>MUN PIER 005-OUTFALL 006                                                           | PA002144 920318<br>PA002144 920318<br>PA002144 920318<br>PA002144 920318<br>PA002144 920318<br>PA002144 920318<br>PA002144 920318                    | SN<br>SN<br>SN<br>SN<br>SN<br>SN | / W<br>4 /                                            | 1,900               |                        | DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER                                                              |
| DUNKIN DONUTS<br>DUNKIN' DONUTS-AIR STRIPP<br>DUNKIN' DONUTS-STORM SEWE                                                                                                                                                                     | PA005325 940210<br>PA005325 940210                                                                                                                   | IW<br>IW                         | 6 / 1K                                                | 8,640               |                        | PENNYPACK CK                                                                                                                      |
| E I DU PONT DE NEMOU<br>DUPONT-OUTFALL 001<br>DUPONT-OUTFALL 002-OUT OF<br>DUPONT-OUTFALL 003                                                                                                                                               | PA001085 950321<br>PA001085 950321<br>PA001085 950321                                                                                                | IW<br>IW<br>IW                   |                                                       |                     |                        | SCHUYKILL RIVER<br>Schuykill River<br>Schuykill River                                                                             |
| EXXON CO U S A<br>EXXON-DISCH TO MINGO CREE<br>EXXON-DISCHARGE TO SCH RV<br>EXXON-LOWER YARD SEPARATO<br>EXXON-UPPER YARD SEPARATO                                                                                                          | PA001108 940601<br>PA001108 940601<br>PA001108 940601<br>PA001108 940601                                                                             | IW<br>IW<br>IW<br>IW             | 7 / 1H,1U<br>7 / 1H                                   |                     | ·                      | TRB MINGO CREEK<br>SCHUYLKILL RVR                                                                                                 |

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| Establishment Name<br>Facility Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Permit #, Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Prog.                                                                                                                                                                                                                                                     | Degree/Treatment Process                                                                                                                                     | Avg. Flow                                                                                      | Max. Flow                                                                 | Discharge<br>Stream Name                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JDM MATERIALS CO INC<br>J.D.M. TYSON-DISCHARGE O<br>J.D.M. TYSON-SETTLING BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PA005018 84092<br>PA005018 84092                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I IW<br>I IW                                                                                                                                                                                                                                              | 7 / 1U(2K-FUTURE)                                                                                                                                            | 3,000                                                                                          | 5,000                                                                     | DELAWARE RIVER                                                                                                                                                                                                                      |
| GETTY-OIL/WATER SEPERATOR<br>GETTY-OUTFALL 001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PA003685 94051<br>PA003685 94051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | P IW<br>IW                                                                                                                                                                                                                                                | 7 / IH                                                                                                                                                       |                                                                                                |                                                                           | SCHUYKILL RIVER                                                                                                                                                                                                                     |
| METAL BANK OF AMÉRIC<br>Metal Bank-landfill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NO PM RE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ) IW                                                                                                                                                                                                                                                      |                                                                                                                                                              |                                                                                                |                                                                           | DELAWARE RIVER                                                                                                                                                                                                                      |
| MORRISSEY, J D CO<br>J D MORRISSEY-DISCHARGE<br>MORRISSEY-PIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO PM RE<br>No PM RE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ) IW<br>) IW                                                                                                                                                                                                                                              | /                                                                                                                                                            |                                                                                                |                                                                           | PENNYPACK CR                                                                                                                                                                                                                        |
| NABISCO<br>NABISCO-STORM SEW OUTFALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PA004456 91010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | B IW                                                                                                                                                                                                                                                      |                                                                                                                                                              |                                                                                                |                                                                           | WALTON RUN                                                                                                                                                                                                                          |
| NAT'L MILLING & CHEM<br>NATL MILL-OUTFALL 001<br>NATL MILL-OUTFALL 001<br>NATL MILL-RIVER OUTFALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PA002811 91102<br>PA002811 91102<br>PA002811 91102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IW<br>IW<br>IW                                                                                                                                                                                                                                            |                                                                                                                                                              |                                                                                                |                                                                           | SCHUYKILL RIVER<br>SCHUYKILL RIVER<br>SCHUYKILL RIVER                                                                                                                                                                               |
| NAT'L RAIL PASSENGER<br>AMTRAK-DISCHARGE POINT 00<br>AMTRAK-OIL SEPARATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PA005050 84032<br>PA005050 84032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7 IW<br>7 IW                                                                                                                                                                                                                                              | 9 / 1Y                                                                                                                                                       | 180,000                                                                                        |                                                                           | SCHUYLKILL RIVE                                                                                                                                                                                                                     |
| PENNA TURNPIKE COMMI<br>GULF OIL SEPARATOR 4B<br>GULF OIL-DISCHARGE 002<br>GULF OIL-DP #004 ELLIOT C<br>GULF OIL-DP #011<br>GULF OIL-DP #013<br>GULF OIL-DP #015<br>GULF OIL-DP 009<br>GULF OIL-DP 009<br>GULF OIL-DP 010<br>GULF OIL-DP 010<br>GULF OIL-DP 012<br>GULF OIL-DP 005<br>GULF OIL-DP#007<br>GULF OIL-DP#007<br>GULF OIL-DP#007<br>GULF OIL-DP#007<br>GULF OIL-SEPARATOR #3<br>GULF OIL-SEPARATOR 2B<br>GULF OIL-SEPARATOR 4<br>GULF OIL-SEPARATOR 5<br>GULF OIL-SEPARATOR 5<br>GULF OIL-SEPARATOR 7<br>GULF OIL-SEPARATOR 7<br>GULF OIL-SEPARATOR 7<br>GULF OIL-SEPARATOR 7<br>GULF OIL-SEPARATOR 7<br>GULF OIL-SEPARATOR 8<br>GULF OIL-SEPARATOR 8<br>GULF OIL-WASTEWATER UNIT | PA001153   900913     PA001153 | 3 IW   3 IW | 7 / 1H<br>7 / 1H | 221,000<br>4,900,000<br>8,770,000<br>901,000<br>8,770,000<br>10,820,000<br>37,000<br>8,770,000 | 380,000<br>12,400,000<br>12,400,000<br>13,660,000<br>82,000<br>12,400,000 | SCHUYLKILL RVR<br>SCHUYLKILL RVR<br>SCHUYLKILL RVR<br>SCHUYLKILL RVR<br>SCHUYLKILL RVR<br>NINGO CREEK<br>SCHUYLKILL RIV<br>SCHUYLKILL RIV<br>SCHUYLKILL RIV<br>SCHUYLKILL RVR<br>SCHUYLKILL RVR<br>SCHUYLKILL RVR<br>SCHUYLKILL RVR |
| PHILA AIRPORT CARGO<br>PHIL CARGO CITY -OUTFALL<br>PHILA CARGO CITY -OIL SEP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PA002590 93072<br>PA002590 93072                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | P IW<br>P IW                                                                                                                                                                                                                                              | 9 / 1H                                                                                                                                                       |                                                                                                |                                                                           | DELAWARE RIVER                                                                                                                                                                                                                      |
| PHILA GAS WORKS<br>PHILA GAS PLT A-DISCHARGE<br>PHILA GAS PLT B-DISCHARGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PA004687 89101<br>PA001288 89101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 IW<br>3 IW                                                                                                                                                                                                                                              |                                                                                                                                                              |                                                                                                |                                                                           | SCHUYLKILL RIV<br>DELAWARE RIVER                                                                                                                                                                                                    |
| PHILADELPHIA CITY W<br>BAXTER-DP 001-TRAVELING S<br>BAXTER-LAGOONS/SED.BASINS<br>BAXTWER-DP 002(LAGOON EFF<br>PHILA NE-FRANKFORD GRIT C<br>PHILA NE-OUTFALL 001<br>PHILA NORTHEAST TP-SECOND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PA005214 96010<br>PA005214 96010<br>PA005214 96010<br>PA002668 91082<br>PA002668 91082<br>PA002668 91082                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S IW<br>S IW<br>S IW<br>S SP<br>S SP<br>S SP                                                                                                                                                                                                              | 6 / IU<br>4 / 1W<br>3 / 01,03,05,24,14                                                                                                                       | 337,000                                                                                        | 871,000                                                                   | DELAWARE RVR<br>Pennypack Ck<br>Delaware River                                                                                                                                                                                      |

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| Establishment Name<br>Facility Name                                                                                                                                                                                                                                                                               | Permit #, Date                                                                                                                                                                                                | Prog.                                        | Degree/Treatment Process                 | Avg. Flow                                 | Max. Flow | Discharge<br>Stream Name                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------|-------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHILA SE-OUTFALL 001<br>PHILA SE-PRIMARY<br>PHILA SOUTHWEST-OUTFALL 0<br>PHILA SW STP-SEC. PURE OX<br>PHILA WATER-LAGOON                                                                                                                                                                                          | PA002666 950529<br>PA002666 950529<br>PA002667 950507<br>PA002667 950507<br>NO PM RF 0                                                                                                                        | SP<br>SP<br>SP<br>SP                         | 2 / 01,03,24,28<br>4 / 01,03,05,11,16,28 |                                           |           | DELAWARE RIVER<br>DELAWARE RIVER                                                                                                                          |
| PHILA WATER-OUTFALL PIPE<br>PHILA WATER-SCREEN BACKWA                                                                                                                                                                                                                                                             | NO PM RE O<br>NO PM RE O                                                                                                                                                                                      | ÎŴ<br>IŴ                                     | ,                                        |                                           |           | PENNYPACK CREEK<br>DELAWARE RIVER                                                                                                                         |
| PHILADELPHIA COKE<br>PHILA COKE-48"PIPE<br>PHILA COKE-CW DISCH<br>PHILA COKE-SETTLING BASIN                                                                                                                                                                                                                       | NOPMRE O<br>Nopmre O<br>Nopmre O                                                                                                                                                                              | IW<br>IW<br>IW                               | 9 /                                      |                                           |           | DELAWARE RIVER<br>DELAWARE RIVER                                                                                                                          |
| PHILADELPHIA ELECTRI<br>COOLERS 002<br>HEATING DRIPS 010<br>PECO DELAWARE-DISCH 005<br>PECO DELAWARE-DP#003<br>PECO DELAWARE-DP#001 DISC<br>PECO DELAWARE-DP#004<br>PECO DELAWARE-DP#004<br>PECO DELAWARE-DP#006 COND<br>PECO DELAWARE-DP#007<br>PECO DELAWARE-DP#009<br>PECO DELAWARE-INTP<br>DECO DELAWARE-INTP | PA001164 900626<br>PA001162 900530<br>PA001162 900530<br>PA001162 900530<br>PA001162 900530<br>PA001162 900530<br>PA001162 900530<br>PA001162 900530<br>PA001162 900530<br>PA001162 900530<br>PA001162 900530 | IW<br>IW<br>IW<br>IW<br>IW<br>IW<br>IW<br>IW | 7 / 2K,1U,1V                             | -<br>181,000                              |           | DELAWARE RIVER<br>DELAWARE RVR<br>DELAWARE RVR<br>DELAWARE RVR<br>DELAWARE RVR<br>DELAWARE RVR<br>DELAWARE RVR<br>DELAWARE RVR<br>DELAWARE RVR            |
| PECO DELAWARE-INIP EFFL.<br>PECO DELAWARE-INIP EFFL.<br>PECO RICHMOND-DISCH 004<br>PECO RICHMOND-DP#001<br>PECO RICHMOND-OUTFALL 005<br>DECO DICHMOND-CTTILLO D                                                                                                                                                   | PA001162 900530<br>PA001162 900530<br>PA001164 900626<br>PA001164 900626<br>PA001164 900626                                                                                                                   | IW<br>IW<br>IW<br>IW                         | 7 / 1Y                                   | 144,000                                   |           | DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER                                                                                      |
| PECO SCUTHWARK DISCH #107<br>PECO SOUTHWARK DISCH #107<br>PECO SOUTHWARK DISCH #107<br>PECO SOUTHWARK DISCH #207<br>PECO SOUTHWARK-DISCH #014<br>PECO SOUTHWARK-DISCH #104<br>PECO SOUTHWARK-DP 010<br>PECO SOUTHWARK-DP 018<br>PECO SOUTHWARK-DP 108<br>PECO-CLEARWELL OVERFLOW 0                                | PA001165 920728<br>PA001166 931017<br>PA001166 931017<br>PA001166 931017<br>PA001166 931017<br>PA001166 931017<br>PA001166 931017<br>PA001166 931017<br>PA001166 931017<br>PA001166 931017                    | IW<br>IW<br>IW<br>IW<br>IW<br>IW<br>IW       | , , , , , , , , , , , , , , , , , , ,    | 372,000                                   |           | SCHUYLKILL RIVE<br>DELAWARE RVR<br>DELAWARE RVR<br>DELAWARE RVR<br>DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER |
| PECO-SCHUYLKILL-NEUTRAL T<br>SCREEN BACKWASH<br>SCREEN BACKWASH<br>SCREEN BACKWASH 003<br>VARIOUS COOLERS<br>YARD DRAIN 008                                                                                                                                                                                       | PA001165 920728<br>PA001165 920728<br>PA001162 900530<br>PA001164 900626<br>PA001164 900626<br>PA001162 900530                                                                                                | IW<br>IW<br>IW<br>IW<br>IW                   | 7 / 2C,2K<br>/ 1T<br>/ 1T<br>/ 1M        | 180,000<br>54,000<br>710,000<br>2,077,000 | 5,049,000 | DELAWARE RIVER                                                                                                                                            |
| PHILADELPHIA INTNL A<br>PHILA INTNL AIRPORT-DISCH<br>PHILA INTNL AIRPORT-DISCH<br>PHILA INTNL AIRPORT-DP<br>PHILA INTNL AIRPORT-DP #                                                                                                                                                                              | NO PM RE O<br>No PM RE O<br>No PM RE O<br>No PM RE O<br>No PM RE O                                                                                                                                            | IW<br>IW<br>IW<br>IW                         |                                          |                                           |           | SCHUYLKILL R<br>SCHUYLKILL R<br>SCHUYLKILL RIV<br>SCHUYLKILL RIVE                                                                                         |
| PUBLICKER DIST-DIV C<br>PUBLICKER-OUTFALL #101<br>PUBLICKER-OUTFALL #102<br>PUBLICKER-OUTFALL #103<br>PUBLICKER-OUTFALL #104                                                                                                                                                                                      | PA001331 0<br>PA001331 0<br>PA001331 0<br>PA001331 0<br>PA001331 0                                                                                                                                            | IW<br>IW<br>IW<br>IW                         |                                          |                                           |           | DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER                                                                                      |
| ROHM & HAAS<br>ROHM & HAAS BRIDESBGH-DP<br>ROHM & HAAS BRIDESBGH-DP#<br>ROHM & HAAS BRIDESBGH-PRE<br>ROHM & HAAS BRIDESBGH-PRE<br>ROHM & HAAS BRIDESBGH-PRE      | PA001277 960927<br>PA001277 960927<br>PA001277 960927<br>PA001277 960927<br>PA001277 960927<br>PA001277 960927<br>PA001277 960927<br>PA001277 960927<br>PA001277 960927<br>PA001277 960927                    | IW<br>IW<br>IW<br>IW<br>IW<br>IW<br>IW       | 7 / 2K<br>7 /                            |                                           |           | DELAWARE RIVER<br>DELAWARE RIVER<br>FRANKFORD INLET<br>FRANKFORD INLET<br>FRANKFORD INLET<br>FRANKFORD INLET<br>FRANKFORD INLET<br>DELAWARE RIVER         |

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| Establishment Name<br>Facility Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Permit #,                                                                                                                                                            | Date                                                                                                                                     | Prog.                                                    | Degree/Treatment Process Avg. Flow Max. Flow | Discharge<br>Stream Name                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ROYAL PETROLEUM<br>Royal Pet-dp 001<br>Royal Pet-Oil Separator                                                                                                                                                                                                                                                                                                                                                                                                                                     | PAD04171<br>PAD04171                                                                                                                                                 | 860424<br>860424                                                                                                                         | IW<br>IW                                                 | 9 / 1Y                                       | SCHUYLKILL RIVE                                                                                                                                                                                                           |
| UNITED STATES ENGINE<br>US ARMY ENG-OUTFALL<br>US ARMY ENG-STP<br>US CORP ENG-SETTLNG BASIN<br>US CORPS ENG-OUTFALL 001<br>US CORPS ENG-OUTFALL 002<br>US CORPS ENG-SETTLNG BASI                                                                                                                                                                                                                                                                                                                   | NO PM RE<br>NO PM RE<br>PA005031<br>PA005031<br>PA005031<br>PA005031                                                                                                 | 0<br>921014<br>921014<br>921014<br>921014<br>921014                                                                                      | Sn<br>Sn<br>Iw<br>Iw<br>Iw<br>Iw                         | 9 / 10<br>9 / 10                             | DELAWARE RIVER<br>DELAWARE RIVER<br>SCHUYKILL RIVER                                                                                                                                                                       |
| UNITED STATES NAVY S<br>NAVY SHIPYD ENG CTR-DISCH<br>NAVY SHIPYD ENG CTR-DISCH<br>NAVY SHIPYD ENG CTR-DISCH<br>NAVYYARD-BOILER HOUSE-DP<br>NAVYYARD-DRYDOCK #2-DP 00<br>NAVYYARD-DRYDOCK #3-DP 00<br>NAVYYARD-DRYDOCK 4&5-DP 0<br>NAVYYARD-FOUNDRY BLDG-DP<br>NAVYYARD-STORM SEWER-DP 0<br>NAVYYARD-STORM SEWER-DP 0 | PA003644<br>PA003645<br>PA003645<br>PA003645<br>PA003645<br>PA003645<br>PA003645<br>PA003645<br>PA003645<br>PA003645<br>PA003645<br>PA003645<br>PA003645<br>PA003645 | 941106<br>900627<br>900627<br>900627<br>900627<br>900627<br>900627<br>900627<br>900627<br>900627<br>900627<br>900627<br>900627<br>900627 | IW<br>IW<br>IW<br>IW<br>IW<br>IW<br>IW<br>IW<br>IW<br>IW | ·                                            | SCHUYKILL RIVR<br>SCHUYKILL RIVER<br>SCHUYKILL RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER<br>SCHUYKILL RIVER<br>SCHUYKILL RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER<br>DELAWARE RIVER<br>SCHUYKILL RIVER |

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# APPENDIX D

Documentation Of Population, Land Use And Housing Data By Census Tract, Planning Analysis Section And Treatment Plant Service Area For 1980,1990,1996.

### Polulation and Land Use Tables

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Population

- Summary by P.A.S. (1980-1990)
- Summary by P.A.S. (1990-1996)
- Breakdown by P.A.S. (1980-1990)
- Breakdown by P.A.S. (1990-1996)
- Breakdown by W.P.C.P. (1980-1990)
- Breakdown by W.P.C.P. (1990-1996)

# Housing

Summary by P.A.S. Breakdown by P.A.S. Breakdown by W.P.C.P.

#### Land Use

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Summary by P.A.S. Breakdown by P.A.S. Breakdown by W.P.C.P.

## Note: P.A.S - Planning Analysis Section W.P.C.P. - Water Pollution Control Plant

## City of Philadelphia 1980-1990 Census Data Comparison Summary Chart

# Population

| Planning<br>Analysis<br>Section | 1980<br>Total<br>Population | 1990<br>Total<br>Population | Percent<br>Change<br>80 - 90 | Total<br>Acreage | 1980<br>People<br>per acre | 1990<br>People<br>per Acre |
|---------------------------------|-----------------------------|-----------------------------|------------------------------|------------------|----------------------------|----------------------------|
| Α                               | 43,552                      | 45,645                      | 4.8                          | 1,594            | 27.3                       | 28.6                       |
| в                               | 188,318                     | 170,944                     | -9.2                         | 8,691            | 21.7                       | 19.7                       |
| с                               | 86,328                      | 81,885                      | -5.1                         | 7,023            | 12.3                       | 11.7                       |
| D                               | 232,979                     | 219,713                     | -5.7                         | 8,888            | 26.2                       | 24.7                       |
| Е                               | 170,611                     | 146,491                     | -14.1                        | 5,104            | 33.4                       | 28.7                       |
| F                               | 113,693                     | 106,045                     | -6.7                         | 3,827            | 29.7                       | 27.7                       |
| G                               | 100,865                     | 94,715                      | -6.1                         | 5,030            | 20.1                       | 18.8                       |
| н                               | 45,440                      | 42,525                      | -6.4                         | 4,002            | 11.4                       | 10.6                       |
| 1                               | 110,455                     | 103,266                     | -6.5                         | 8,367            | 13.2                       | 12.3                       |
| J                               | 184,039                     | 176,550                     | -4.1                         | 5,584            | 33.0                       | 31.6                       |
| к                               | 248,559                     | 237,251                     | -4.5                         | 11,352           | 21.9                       | 20.9                       |
| L                               | 163,371                     | 160,547                     | -1.7                         | 17,021           | 9.6                        | 9.4                        |
| Total:                          | 1,688,210                   | 1,585,577                   | -6.1                         | 86,483           | 19.5                       | 18.3                       |

|                                   | Housing                           |                              |                                           |                                           |
|-----------------------------------|-----------------------------------|------------------------------|-------------------------------------------|-------------------------------------------|
| 1980<br>Total<br>Housing<br>Units | 1990<br>Total<br>Housing<br>Units | Percent<br>Change<br>80 - 90 | 1980<br>Housing<br>Density<br>Persons/EDU | 1990<br>Housing<br>Density<br>Persons/EDU |
| 30,370                            | 33,816                            | 11.3                         | 1.4                                       | 1.3                                       |
| 78,522                            | 74,987                            | -4.5                         | 2.4                                       | 2.3                                       |
| 32,156                            | 31,433                            | -2.2                         | 2.7                                       | 2.6                                       |
| 94,526                            | 94,940                            | 0.4                          | 2.5                                       | 2.3                                       |
| 71,711                            | 65,770                            | -8.3                         | 2.4                                       | 2.2                                       |
| 43,855                            | 39,366                            | -10.2                        | 2.6                                       | 2.7                                       |
| 40,886                            | 39,587                            | -3.2                         | 2.5                                       | 2.4                                       |
| 18,247                            | 19,430                            | 6.5                          | 2.5                                       | 2.2                                       |
| 48,224                            | 46,851                            | -2.8                         | 2.3                                       | 2.2                                       |
| 68,024                            | 66,428                            | -2.3                         | 2.7                                       | 2.7                                       |
| 99,929                            | 100,289                           | 0.4                          | 2.5                                       | 2.4                                       |
| 55,981                            | 61,962                            | 10.7                         | 2.9                                       | 2.6                                       |
| 682,431                           | 674,859                           | -1.1                         | 2.5                                       | 2.3                                       |

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### City of Philadelphia 1990-1996 Census Data Comparison Summary Chart

# Population

| Planning<br>Analysis<br>Section | 1990<br>Total<br>Population | 1996<br>Projected<br>Population | Percent<br>Change<br>90 - 96 | Total<br>Acreage | 1990<br>People<br>per acre | 1996<br>People<br>per Acre |
|---------------------------------|-----------------------------|---------------------------------|------------------------------|------------------|----------------------------|----------------------------|
| A                               | 45,645                      | 47,334                          | 3.7                          | 1,594            | 28.6                       | 29.7                       |
| В                               | 170,944                     | 164,128                         | -4.0                         | 8,691            | 19.7                       | 18.9                       |
| с                               | 81,885                      | 80,440                          | -1.8                         | 7,023            | 11.7                       | 11.5                       |
| D                               | 219,713                     | 215,529                         | -1.9                         | 8,888            | 24.7                       | 24.3                       |
| E                               | 146,491                     | 135,721                         | -7.4                         | 5,104            | 28.7                       | 26.6                       |
| F                               | 106,045                     | 103,854                         | -2.1                         | 3,827            | 27.7                       | 27.1                       |
| G                               | 94,715                      | 92,652                          | -2.2                         | 5,030            | 18.8                       | 18.4                       |
| н                               | 42,525                      | 41,547                          | -2.3                         | 4,002            | 10.6                       | 10.4                       |
| 1                               | 103,266                     | 100,897                         | -2.3                         | 8,367            | 12.3                       | 12.1                       |
| J                               | 176,550                     | 174,758                         | -1.0                         | 5,584            | 31.6                       | 31.3                       |
| к                               | 237,251                     | 234,170                         | -1.3                         | 11,352           | 20.9                       | 20.6                       |
| L                               | 160,547                     | 160,158                         | -0.2                         | 17,021           | 9.4                        | 9.4                        |
| Total:                          | 1,585,577                   | 1,551,188                       | -2.2                         | 86,483           | 18.3                       | 17.9                       |

Projections obtained from National Planning Data Corporation (1991)

|                                   | Housing                           |                              |                                           |                                           |
|-----------------------------------|-----------------------------------|------------------------------|-------------------------------------------|-------------------------------------------|
| 1980<br>Total<br>Housing<br>Units | 1990<br>Total<br>Housing<br>Units | Percent<br>Change<br>80 - 90 | 1980<br>Housing<br>Density<br>Persons/EDU | 1990<br>Housing<br>Density<br>Persons/EDU |
| 30,370                            | 33,816                            | 11.3                         | 1.4                                       | 1.3                                       |
| 78,522                            | 74,987                            | -4.5                         | 2.4                                       | 2.3                                       |
| 32,156                            | 31,433                            | -2.2                         | 2.7                                       | 2.6                                       |
| 94,526                            | 94 <b>,94</b> 0                   | 0.4                          | 2.5                                       | 2.3                                       |
| 71,711                            | 65, <b>77</b> 0                   | -8.3                         | 2.4                                       | 2.2                                       |
| 43,855                            | 39,366                            | -10.2                        | 2.6                                       | 2.7                                       |
| 40,886                            | 39,587                            | -3.2                         | 2.5                                       | 2.4                                       |
| 18,247                            | 19,430                            | 6.5                          | 2.5                                       | 2.2                                       |
| 48,224                            | 46,851                            | -2.8                         | 2.3                                       | 2.2                                       |
| 68,024                            | 66,428                            | -2.3                         | 2.7                                       | 2.7                                       |
| 99,929                            | 100,289                           | 0.4                          | 2.5                                       | 2.4                                       |
| 55,981                            | 61,962                            | 10.7                         | 2.9                                       | 2.6                                       |
| 682,431                           | 674,859                           | -1.1                         | 2.5                                       | 2.3                                       |

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# City of Philadelphia 1980-1990 Census Data Comparison

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# Population

| Planning<br>Analysis | Tract      | 1980<br>Total | 1990<br>Total | Percent<br>Change | Tract<br>Area | 1980<br>People | 1990<br>People | WWTP<br>Service |
|----------------------|------------|---------------|---------------|-------------------|---------------|----------------|----------------|-----------------|
| Section              | <u>No.</u> | Population    | Population    | 80 - 90           | Acres         | per Acre       | per acre       | Area            |
| Α                    | 1          | 656           | 2 073         | 216.0             | 175.2         | 37             | 11.8           | SE              |
| Δ                    | 2          | 1 150         | 1 403         | 220.0             | 100.6         | 11 4           | 13.9           | SE              |
| A                    | 3          | 2 160         | 2 497         | 12.4              | 139.1         | 15.5           | 17.4           | SW              |
| Α                    | 4          | 4 533         | 3 206         | -29.3             | 129.2         | 35.1           | 24.8           | SE/SW           |
| A                    | 5          | 4,000         | 1.055         | 128.9             | 106.5         | 43             | 99             | SE              |
| A                    | õ          | 279           | 349           | 25.1              | 42.3          | 6.6            | 83             | SE              |
| A                    | 7          | 2448          | 3 069         | 25.4              | 62.0          | 39.5           | 49.5           | SE              |
| Ă                    | 8          | 8 110         | 7 637         | -5.8              | 99.1          | 81.8           | 77.1           | SE              |
| A                    | 9          | 4 230         | 4 234         | 0.1               | 64 7          | 65.4           | 65.4           | SF              |
| A                    | 10         | 5 213         | 5 715         | 96                | 174.2         | 29.9           | 32.8           | SE              |
| A                    | 11         | 5 993         | 5 594         | -67               | 91.9          | 65.2           | 60.9           | SE              |
| A                    | 12         | 8,319         | 8 452         | 16                | 158.6         | 52.5           | 53.3           | SE/SW           |
| A                    | 366        | 0,0.0         | 400           | 100.0             | 250.8         | 0.0            | 1.6            | SE              |
| A                    | 366.99 *   | 0             | 31            | 100.0             | N/A           | N/A            | N/A            | SE              |
| Subtotal:            |            | 43,552        | 45,645        | 4.8               | 1,594.2       | 27.3           | 28.6           |                 |
| в                    | 13         | 5,152         | 4,520         | -12.3             | 177.7         | 29.0           | 25.4           | sw              |
| В                    | 14         | 3,469         | 3,763         | 8.5               | 79.3          | 43.7           | 47.5           | SE/SW           |
| В                    | 15         | 2,512         | 2,537         | 1.0               | 58.6          | 42.9           | 43.3           | ŚE              |
| В                    | 16         | 1,837         | 1,943         | 5.8               | 49.4          | 37.2           | 39.3           | SE              |
| В                    | 17         | 2,149         | 2,493         | 16.0              | 50.7          | 42.4           | 49.2           | SE              |
| В                    | 18         | 3,625         | 3,247         | -10.4             | 59.3          | 61.1           | 54.8           | SE              |
| в                    | 19         | 3.788         | 2.419         | -36.1             | 81.5          | 46.5           | 29.7           | SE/SW           |

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| В | 20      | 2,681  | 2,516               | -6.2           | 71.9    | 37.3             | 35.0 | SW    |
|---|---------|--------|---------------------|----------------|---------|------------------|------|-------|
| В | 21      | 2,814  | 2,636               | -6.3           | 58.8    | 47. <del>9</del> | 44.8 | SE/SW |
| В | 22      | 2,262  | 2,195               | -3.0           | 59.1    | 38.3             | 37.1 | SE/SW |
| в | 23      | 2,908  | 2,529               | -13.0          | 52.6    | 55.3             | 48.1 | SE    |
| B | 24      | 4,760  | 4,311               | -9.4           | 132.0   | 36.1             | 32.7 | SE    |
| в | 25      | 4,960  | 3,435               | -30.7          | 98.6    | 50.3             | 34.8 | SE    |
| В | 26      | 0      | 0                   | 0.0            | 113.7   | 0.0              | 0.0  | SE    |
| в | 27      | 8,576  | 7,365               | -14.1          | 146.5   | 58.5             | 50.3 | SE    |
| В | 28      | 9,632  | 8,968               | -6.9           | 146.0   | 66.0             | 61.4 | SE    |
| в | 29      | 5,163  | 4,017               | -22.2          | 89.7    | 57.6             | 44.8 | SE    |
| в | 30      | 8,090  | 8,364               | 3.4            | 117.6   | 68.8             | 71.1 | SE/SW |
| В | 31      | 6,422  | 5,902               | -8.1           | 97.6    | 65.8             | 60.5 | SW    |
| В | 32      | 6,926  | 6,147               | -11.2          | 122.3   | 56.6             | 50.3 | SW    |
| B | 33      | 7,271  | 6,128               | -15.7          | 185.6   | 39.2             | 33.0 | SW    |
| В | 34      | 557    | 466                 | -16.3          | 146.5   | 3.8              | 3.2  | SW    |
| B | 35      | 123    | 95                  | -22.8          | 406.7   | 0.3              | 0.2  | SW    |
| B | 36      | 7,813  | 7,429               | -4.9           | 220.4   | 35.4             | 33.7 | SW    |
| В | 37      | 11,021 | 10,373              | -5.9           | 151.7   | 72.6             | 68.4 | SW    |
| в | 38.99   | 4,640  | 4,092               | -11.8          | 171.7   | 27.0             | 23.8 | SW    |
| В | 39      | 13,576 | 11,853              | -12.7          | 222.1   | 61.1             | 53.4 | SE/SW |
| В | 40      | 11,188 | 9,447               | -15.6          | 160.1   | 69.9             | 59.0 | SE    |
| В | 41      | 14,936 | 13,326              | -10.8          | 191.8   | 77.9             | 69.5 | SE    |
| в | 42      | 11,763 | <sup>.</sup> 11,081 | -5.8           | 198.4   | 59.3             | 55.9 | SE    |
| в | 43      | 0      | 46                  | 100.0          | 466.5   | 0.0              | 0.1  | SE    |
| в | 43.99 * | 58     | 0                   | -100.0         | N/A     | N/A              | N/A  | SE    |
| В | 44      | 1,253  | 1,078               | -14.0          | 142.6   | 8.8              | 7.6  | SE    |
| В | 45      | 3,609  | 3,255               | <b>-9.8</b>    | 123.3   | 29.3             | 26.4 | SE    |
| В | 46      | 3,072  | 2,391               | -22.2          | 923.4   | 3.3              | 2.6  | SE ·  |
| в | 47.98   | 4,663  | 4,370               | -6.3           | 205.6   | 22.7             | 21.3 | SE    |
| В | 48      | 584    | 526                 | -9.9           | 112.2   | 5.2              | 4.7  | SE    |
| В | 49      | 2      | 0                   | -100 <b>.0</b> | 1,092.9 | <b>0</b> .0      | 0.0  | SE    |
| в | 50      | 3,019  | 2,229               | -26.2          | 1,110.0 | 2.7              | 2.0  | SE/SW |
| в | 50.99 * | 852    | 2,287               | 168.4          | N/A     | N/A              | N/A  | SE/SW |
| в | 51      | 592    | 1,165               | 96.8           | 596.3   | 1.0              | 2.0  | SW    |

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| Subtotal: |    | 188,318 | 170,944 | -9.2  | 8,690.7 | 21.7 | 19.7        |    |
|-----------|----|---------|---------|-------|---------|------|-------------|----|
| С         | 52 | 31      | 53      | 71.0  | 2,140.7 | 0.0  | 0.0         | SW |
| С         | 54 | 935     | 1,271   | 35.9  | 436.6   | 2.1  | 2.9         | SW |
| С         | 55 | 6,274   | 6,293   | 0.3   | 296.5   | 21.2 | 21.2        | SW |
| С         | 56 | 1,259   | 1,217   | -3.3  | 207.6   | 6.1  | 5.9         | SW |
| С         | 57 | 81      | 3       | -96.3 | 318.5   | 0.3  | 0.0         | SW |
| С         | 58 | 0       | 32      | 100.0 | 838.9   | 0.0  | 0.0         | SW |
| С         | 59 | 0       | 0       | 0.0   | 96.4    | 0.0  | 0.0         | SW |
| С         | 60 | 6,848   | 6,554   | -4.3  | 268.6   | 25.5 | 24.4        | SW |
| С         | 61 | 3,548   | 3,146   | -11.3 | 132.0   | 26.9 | 23.8        | SW |
| С         | 62 | 4,292   | 4,038   | -5.9  | 124,8   | 34.4 | 32.4        | SW |
| С         | 63 | 4,468   | 4,709   | 5.4   | 137.1   | 32.6 | 34.3        | SW |
| C         | 64 | 4,861   | 4,512   | -7.2  | 163.8   | 29.7 | 27.5        | SW |
| С         | 65 | 6,716   | 6,283   | -6.4  | 286.4   | 23.4 | 21.9        | SW |
| С         | 66 | 4,253   | 4,218   | -0.8  | 162.1   | 26.2 | 26.0        | SW |
| С         | 67 | 7,118   | 6,431   | -9.7  | 248.3   | 28.7 | 25.9        | SW |
| С         | 68 | 0       | 0       | 0.0   | 225.4   | 0.0  | <b>0.</b> 0 | SW |
| С         | 69 | 2,974   | 2,520   | -15.3 | 150.2   | 19.8 | 16.8        | SW |
| С         | 70 | 5,633   | 5,374   | -4.6  | 115.9   | 48.6 | 46.4        | SW |
| С         | 71 | 10,371  | 9,952   | -4.0  | 165.6   | 62.6 | 60.1        | SW |
| С         | 72 | 6,476   | 6,112   | -5.6  | 120.8   | 53.6 | 50.6        | SW |
| С         | 73 | 4,227   | 3,722   | -11.9 | 96.6    | 43.8 | 38.5        | SW |
| С         | 74 | 5,963   | 5,445   | -8.7  | 167.0   | 35.7 | 32.6        | SW |
| С         | 75 | 0       | 0       | 0.0   | 123.1   | 0.0  | 0.0         | SW |
| Subtotal: |    | 86,328  | 81,885  | -5.1  | 7,022.9 | 12.3 | 11.7        |    |
| D         | 76 | 1,774   | 416     | -76.6 | 248.3   | 7.1  | 1.7         | SW |
| D         | 77 | 1,898   | 2,253   | 18.7  | 80.3    | 23.6 | 28.1        | SW |
| D         | 78 | 5,319   | 4,776   | -10.2 | 107.2   | 49.6 | 44.6        | SW |
| D         | 79 | 5,147   | 4,729   | -8.1  | 93.2    | 55.2 | 50.7        | SW |
| D         | 80 | 5,508   | 5,031   | -8.7  | 105.8   | 52.1 | 47.6        | SW |

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Page 3

| D | 81  | 10,325 | 9,314  | - <del>9</del> .8 | 152.0 | 67.9             | 61.3 | SW |
|---|-----|--------|--------|-------------------|-------|------------------|------|----|
| D | 82  | 9,140  | 8,020  | -12.3             | 206.1 | 44.3             | 38.9 | SW |
| D | 83  | 11,136 | 10,336 | -7.2              | 232.8 | 47.8             | 44.4 | SW |
| D | 84  | 5,624  | 5,286  | -6.0              | 122.8 | 45.8             | 43.0 | SW |
| D | 85  | 8,170  | 7,761  | -5.0              | 154.2 | 53.0             | 50.3 | SW |
| D | 86  | 6,559  | 6,685  | 1.9               | 154.9 | 42.3             | 43.2 | SW |
| D | 87  | 7,210  | 7,249  | 0.5               | 133.2 | 54.1             | 54.4 | SW |
| D | 88  | 8,440  | 9,190  | 8.9               | 140.6 | 60.0             | 65.4 | SW |
| D | 89  | 2,246  | 2,786  | 24.0              | 216.0 | 10.4             | 12.9 | SW |
| D | 90  | 3,805  | 4,473  | 17.6              | 110.2 | 34.5             | 40.6 | SW |
| D | 91  | 2,722  | 2,968  | 9.0               | 103.5 | 26.3             | 28.7 | SW |
| D | 92  | 3,440  | 3,197  | -7.1              | 127.3 | 27.0             | 25.1 | SW |
| D | 93  | 5,286  | 4,922  | -6.9              | 99.6  | 53.1             | 49.4 | SW |
| D | 94  | 4,235  | 4,226  | -0.2              | 92.2  | 45. <del>9</del> | 45.8 | SW |
| D | 95  | 4,214  | 3,877  | -8.0              | 80.1  | 52.6             | 48.4 | SW |
| D | 96  | 5,230  | 4,915  | -6.0              | 101.3 | 51.6             | 48,5 | SW |
| D | 97  | 42     | 89     | 111.9             | 527.1 | 0.1              | 0.2  | SW |
| D | 98  | 7,677  | 7,271  | -5.3              | 223.4 | 34.4             | 32.5 | SW |
| D | 99  | 380    | 366    | -3.7              | 50.9  | 7.5              | 7.2  | SW |
| D | 100 | 4,455  | 3,882  | -12.9             | 136.6 | 32.6             | 28.4 | SW |
| D | 101 | 6,867  | 6,389  | -7.0              | 149.0 | 46.1             | 42.9 | SW |
| D | 102 | 3,256  | 3,231  | -0.8              | 88.5  | 36.8             | 36.5 | SW |
| D | 103 | 3,168  | 2,933  | -7.4              | 71.2  | 44.5             | 41.2 | SW |
| D | 104 | 4,421  | 4,251  | -3.8              | 116.6 | 37.9             | 36.5 | SW |
| D | 105 | 5,297  | 4,535  | -14.4             | 165.1 | 32.1             | 27.5 | SW |
| D | 106 | 2,132  | 1,622  | -23.9             | 64.0  | 33.3             | 25.3 | SW |
| D | 107 | 4,718  | 4,166  | -11.7             | 114.4 | 41.2             | 36,4 | SW |
| D | 108 | 5,969  | 4,727  | -20.8             | 132.7 | 45.0             | 35.6 | SW |
| D | 109 | 3,143  | 2,503  | -20.4             | 63.8  | 49.3             | 39.2 | SW |
| D | 110 | 4,767  | 4,591  | -3.7              | 119.8 | 39.8             | 38.3 | SW |
| D | 111 | 5,727  | 5,333  | -6.9              | 325.9 | 17.6             | 16.4 | SW |
| D | 112 | 6,672  | 6,547  | -1. <del>9</del>  | 125.0 | 53.4             | 52.4 | SW |
| D | 113 | 3,802  | 3,545  | -6.8              | 85.3  | 44.6             | 41.6 | SW |
| D | 114 | 7,537  | 7,232  | -4.0              | 240.7 | 31.3             | 30.0 | SW |

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| · D       | 115 | 4,364   | 3,776   | -13.5 | 88.5    | 49.3 | 42.7 | SW    |  |
|-----------|-----|---------|---------|-------|---------|------|------|-------|--|
| D         | 116 | 3,433   | 2,997   | -12.7 | 185.1   | 18.5 | 16.2 | SW    |  |
| D         | 117 | 1,942   | 2,088   | 7.5   | 164.1   | 11.8 | 12.7 | SW    |  |
| D         | 118 | 7,529   | 7,059   | -6.2  | 232.3   | 32.4 | 30.4 | SW    |  |
| D         | 119 | 6,183   | 6,302   | 1.9   | 172.5   | 35.8 | 36.5 | SW    |  |
| D         | 120 | 1,747   | 1,781   | 1.9   | 148.0   | 11.8 | 12.0 | SW    |  |
| D         | 121 | 2,989   | 3,007   | 0.6   | 221.2   | 13.5 | 13.6 | SW    |  |
| D         | 122 | 7,249   | 6,955   | -4.1  | 353.4   | 20.5 | 19.7 | SW    |  |
| D         | 123 | 85      | 117     | 37.6  | 1,362.5 | 0.1  | 0.1  | SW    |  |
| D         | 124 | 0       | 8       | 100.0 | 298.7   | 0.0  | 0.0  | SW    |  |
| Subtotai: |     | 232,979 | 219,713 | -5.7  | 8,887.9 | 26.2 | 24.7 |       |  |
| ε         | 125 | 3,392   | 3,612   | 6.5   | 207.3   | 16.4 | 17.4 | SE/SW |  |
| E         | 126 | 409     | 635     | 55.3  | 90.7    | 4.5  | 7.0  | SE    |  |
| Ε         | 127 | 378     | 399     | 5.6   | 83.3    | 4.5  | 4.8  | SE    |  |
| E         | 128 | 71      | 163     | 129.6 | 63.5    | 1.1  | 2.6  | SE    |  |
| E         | 129 | 288     | 430     | 49.3  | 89.5    | 3.2  | 4.8  | SE    |  |
| E         | 130 | 878     | 1,009   | 14.9  | 51.4    | 17.1 | 19.6 | SE    |  |
| E         | 131 | 2,772   | 2,200   | -20.6 | 79.1    | 35.0 | 27.8 | SE    |  |
| E         | 132 | 4,722   | 4,166   | -11.8 | 107.0   | 44.1 | 38.9 | SE    |  |
| Ε         | 133 | 2,676   | 2,264   | -15.4 | 88.7    | 30.2 | 25.5 | SE    |  |
| E         | 134 | 5,694   | 5,401   | -5.1  | 105.8   | 53.8 | 51.0 | SE/SW |  |
| E         | 135 | 3,522   | 3,726   | 5.8   | 100.3   | 35.1 | 37.1 | SE/SW |  |
| E         | 136 | 6,532   | 5,882   | -10.0 | 99.8    | 65.5 | 58.9 | SE/SW |  |
| E         | 137 | 7,220   | 6,573   | -9.0  | 150.0   | 48.1 | 43.8 | SE/SW |  |
| E         | 138 | 3,728   | 2,941   | -21.1 | 87.0    | 42.9 | 33.8 | SE/SW |  |
| E         | 139 | 5,404   | 4,785   | -11.5 | 140.1   | 38.6 | 34.2 | SE ·  |  |
| ε         | 140 | 4,622   | 3,594   | -22.2 | 105.5   | 43.8 | 34.1 | SE    |  |
| E         | 141 | 3,536   | 2,768   | -21.7 | 141.3   | 25.0 | 19.6 | SE    |  |
| E         | 142 | 2,232   | 2,190   | -1.9  | 196.2   | 11.4 | 11.2 | SE    |  |
| E         | 144 | 3,362   | 3,331   | -0.9  | 154.2   | 21.8 | 21.6 | SE    |  |
| E         | 145 | 2,764   | 2,006   | -27.4 | 80.1    | 34.5 | 25.0 | SE    |  |
| E         | 146 | 3,086   | 3,322   | 7.6   | 112.7   | 27.4 | 29.5 | SE    |  |

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|---------------------------------------|-------------------------|----------------------|-------------|---------------------------------------------------------------------|----------------------|-------------------------------------|------------|----------------------------------------|---|---------|---------------------|------------------------------|
|                                       |                         |                      |             |                                                                     |                      |                                     |            |                                        |   |         |                     |                              |

| E         | 147         | 3,540   | 2,437   | -31.2 | 85.5    | 41.4         | 28.5 | SE       |
|-----------|-------------|---------|---------|-------|---------|--------------|------|----------|
| Е         | 148         | 1,738   | 1,278   | -26.5 | 47.2    | 36.8         | 27.1 | SE       |
| E         | 14 <b>9</b> | 6,853   | 5,834   | -14.9 | 110.0   | 62.3         | 53.0 | SE/SW    |
| E         | 150         | 10      | 97      | 870.0 | 588.8   | 0.0          | 0.2  | ŚW       |
| E         | 151         | 10,745  | 9,215   | -14.2 | 187.1   | 57.4         | 49.3 | SE/SW    |
| E         | 152         | 11,241  | 8,134   | -27.6 | 161.9   | 69.4         | 50.2 | SE       |
| E         | 153         | 5,308   | 3,621   | -31.8 | 113.7   | 46.7         | 31.8 | SE       |
| E         | 154         | 2,150   | 1,819   | -15.4 | 76.8    | 28.0         | 23.7 | SE       |
| E         | 155         | 4,565   | 3,413   | -25.2 | 104.0   | 43.9         | 32.8 | SE       |
| E         | 156         | 2,857   | 2,386   | -16.5 | 106.0   | 27.0         | 22.5 | SE       |
| E         | 157         | 2,628   | 2,764   | 5.2   | 122.3   | 21.5         | 22.6 | SE       |
| E         | 162         | 3,537   | 2,858   | -19.2 | 86.2    | 41.0         | 33.2 | SE       |
| E         | 163         | 4,229   | 4,147   | -1.9  | 139.6   | 30.3         | 29.7 | SE       |
| E         | 164         | 6,141   | 5,589   | -9.0  | 118.4   | 51 <b>.9</b> | 47.2 | SE/NE    |
| E         | 165         | 5,095   | 3,870   | -24.0 | 99.1    | 51.4         | 39.1 | SE       |
| E         | 166         | 1,788   | 1,475   | -17.5 | 63.3    | 28.2         | 23.3 | SE       |
| E         | 167         | 10,391  | 8,509   | -18.1 | 151.2   | 68.7         | 56.3 | SE       |
| E         | 168         | 5,903   | 5,370   | -9.0  | 142.8   | 41.3         | 37.6 | SE       |
| E         | 169         | 14,604  | 12,278  | -15.9 | 266.6   | 54.8         | 46.1 | SE/SW    |
| Subtotal: |             | 170,611 | 146,491 | -14.1 | 5,104.0 | 33.4         | 28.7 |          |
| F         | 170         | 4,532   | 3,927   | -13.3 | 392.4   | 11.5         | 10.0 | SE/SW    |
| F         | 171         | 6,076   | 5,276   | -13.2 | 282.9   | 21.5         | 18.6 | SE/SW/NE |
| F         | 172         | 11,316  | 9,976   | -11.8 | 138.4   | 81.8         | 72.1 | SE/SW    |
| F         | 173         | 3,993   | 3,815   | -4.5  | 217.0   | 18.4         | 17.6 | SE/SW/NE |
| F         | 174         | 3,780   | 3,406   | -9.9  | 86.0    | 44.0         | 39.6 | NE       |
| F         | 175         | 9,663   | 9,010   | -6.8  | 176.7   | 54.7         | 51.0 | SE/NE    |
| F         | 176         | 10,791  | 11,464  | 6.2   | 243.6   | 44.3         | 47.1 | SE       |
| F         | <b>19</b> 4 | 281     | 361     | 28.5  | 332.6   | 0.8          | 1.1  | NE       |
| F         | <b>19</b> 5 | 8,399   | 8,707   | 3.7   | 193.7   | 43.4         | 45.0 | SE/NE    |
| F         | 196         | 2,390   | 2,639   | 10.4  | 185.3   | 12.9         | 14.2 | SE/NE    |
| F         | 197         | 7,213   | 7,736   | 7.3   | 210.8   | 34.2         | 36.7 | NE       |
| F         | 198         | 7,486   | 6,966   | -6.9  | 133.4   | 56.1         | 52.2 | NE       |

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|-----------|----------|---------|-----------------|--------|---------|-------|------|-------|
| -         | 199      | 5,827   | 5,390           | -7.5   | 164.6   | 35.4  | 32.7 | SE/NE |
| F         | 200      | 2,536   | 2,176           | -14.2  | 79.6    | 31.9  | 27.3 | NE    |
| F         | 201      | 9,799   | 8,049           | -17.9  | 215.7   | 45.4  | 37.3 | NE    |
| F         | 202      | 7,359   | 6,102           | -17.1  | 188.8   | 39.0  | 32.3 | SE/NE |
| F         | 203      | 4,752   | 3,780           | -20.5  | 130.0   | 36.6  | 29.1 | NE    |
| F         | 204      | 4,217   | 3,805           | -9.8   | 101.8   | 41.4  | 37.4 | NE    |
| F         | 205      | 3,283   | 3,460           | 5.4    | 354.1   | 9.3   | 9.8  | SE/NE |
| Subtotal: |          | 113,693 | <b>106,0</b> 45 | -6.7   | 3,827.4 | 29.7  | 27.7 |       |
| G         | 143      | 1,488   | 1,470           | -1.2   | 136.9   | 10.9  | 10.7 | SE    |
| G         | 158      | 6,786   | 6,059           | -10.7  | 147.0   | 46.2  | 41.2 | SE    |
| G         | 159      | 1,926   | 1,765           | -8.4   | 171.5   | 11.2  | 10.3 | SE    |
| G         | 160      | 8,420   | 7,973           | -5.3   | 176.4   | 47.7  | 45.2 | SE    |
| G         | 161      | 6,546   | 6,034           | -7.8   | 172.0   | 38.1  | 35.1 | SE    |
| G         | 177      | 9,122   | 8,597           | -5.8   | 176.4   | 51.7  | 48.7 | SE/NE |
| G         | 178      | 6,881   | 6,252           | -9.1   | 167.5   | 41.1  | 37.3 | SE/NE |
| G         | 179      | 6,895   | 6,435           | -6.7   | 167.8   | 41.1  | 38.3 | NE    |
| G         | 180      | 8,699   | 8,419           | -3.2   | 201.1   | 43.3  | 41.9 | NE    |
| G         | 181      | 191     | 197             | 3.1    | 170.7   | 1.1   | 1.2  | NE    |
| G         | 182      | 382     | 375             | -1.8   | 581.7   | 0.7   | 0.6  | NE    |
| G         | 182.99 * | 43      | 0               | -100.0 | N/A     | N/A   | N/A  | NE    |
| G         | 183      | 4,501   | 4,225           | -6.1   | 520.6   | 8.6   | 8.1  | NE    |
| G         | 184      | 2,328   | 2,306           | -0.9   | 282.4   | 8.2   | 8.2  | NE    |
| G         | 185      | 147     | 134             | -8.8   | 163.6   | 0.9   | 0.8  | NE    |
| G         | 186      | 5,163   | 4,821           | -6.6   | 176.2   | 29.3  | 27.4 | NE    |
| G         | 187      | 1,834   | 1,773           | -3.3   | 198.9   | 9.2   | 8.9  | NE    |
| G         | 188      | 7,432   | 7,167           | -3.6   | 166.3   | 44.7  | 43.1 | NE    |
| G         | 189      | 1,077   | 1,013           | -5.9   | 252.5   | 4.3   | 4.0  | NE    |
| G         | 190      | 6,761   | 6,428           | -4.9   | 196.9   | 34.3  | 32.6 | NE    |
| G         | 191      | 6,748   | 6,060           | -10.2  | 359.5   | 18.8  | 16.9 | NE    |
| G         | 192      | 7,364   | 7,078           | -3.9   | 162.8   | 45.2  | 43.5 | NE    |
| G         | 193      | 131     | 134             | 2.3    | 280.7   | 0.5   | 0.5  | NE    |

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| Subtotal: |     | 100,865 | 94,715       | -6.1  | 5,029.4 | 20.1 | 18.8 |          |
|-----------|-----|---------|--------------|-------|---------|------|------|----------|
| н         | 209 | 3,473   | 3,080        | -11.3 | 131.5   | 26.4 | 23.4 | sw       |
| н         | 210 | 5,770   | 5,505        | -4.6  | 210.5   | 27.4 | 26.2 | SW       |
| Н         | 211 | 2,981   | 2,608        | -12.5 | 134.9   | 22,1 | 19.3 | SW       |
| Н         | 212 | 2,702   | 2,474        | -8.4  | 122.3   | 22,1 | 20.2 | SW       |
| н         | 213 | 4,148   | 3,830        | -7.7  | 134.4   | 30.9 | 28.5 | SW       |
| Н         | 214 | 4,417   | 3,867        | -12.5 | 157.2   | 28.1 | 24.6 | SW       |
| Н         | 215 | 3,924   | 3,542        | -9.7  | 270.1   | 14.5 | 13.1 | SW       |
| Н         | 216 | 1,479   | 1,464        | -1.0  | 432.9   | 3.4  | 3.4  | SW       |
| Н         | 217 | 7,158   | 6,376        | -10.9 | 388.7   | 18.4 | 16.4 | SW       |
| Н         | 218 | 4,267   | 4,053        | -5.0  | 250.8   | 17.0 | 16.2 | SW       |
| Н         | 219 | 1,494   | 1,404        | -6.0  | 382.3   | 3.9  | 3.7  | SW       |
| н         | 220 | 1,147   | 1,600        | 39.5  | 719.1   | 1.6  | 2.2  | SW       |
| н         | 221 | 1,265   | 1,167        | -7.7  | 161.9   | 7.8  | 7.2  | SW       |
| н         | 222 | 1,215   | 1,555        | 28.0  | 505.3   | 2.4  | 3.1  | SW       |
| Subtotal: |     | 45,440  | 42,525<br>04 | -6.4  | 4,001.9 | 11.4 | 10.6 | 05-      |
| 1         | 206 | 1,842   | 1,606        | -12.8 | 317.8   | 5.8  | 5.1  | SE/SW/NE |
| 1         | 207 | 6,638   | 6,793        | 2.3   | 352.4   | 18.8 | 19.3 | SE/SW    |
| I         | 208 | 2,095   | 1,513        | -27.8 | 221.7   | 9.4  | 6.8  | SE/SW    |
| I         | 223 | 68      | 374          | 450.0 | 1,372.4 | 0.0  | 0.3  | SE/SW    |
| 1         | 224 | 375     | 335          | -10.7 | 160.4   | 2.3  | 2.1  | SW       |
| E         | 225 | 765     | 506          | -33.9 | 221.7   | 3.5  | 2.3  | SW       |
| t         | 226 | 479     | 472          | -1.5  | 152.5   | 3.1  | 3.1  | SW       |
| I         | 227 | 1,307   | 1,423        | 8.9   | 141.6   | 9.2  | 10.0 | SW       |
| 1         | 228 | 1,573   | 1,447        | -8.0  | 174.2   | 9.0  | 8.3  | SW       |
| t         | 229 | 247     | 320          | 29.6  | 296.3   | 0.8  | 1.1  | SE/SW    |
| I         | 230 | 384     | 434          | 13.0  | 308.4   | 1.2  | 1.4  | SE       |
| I         | 231 | 1,347   | 1,293        | -4.0  | 210.0   | 6.4  | 6.2  | SE       |
| I         | 232 | 690     | 870          | 26.1  | 193.7   | 3.6  | 4.5  | SE       |
| 1         | 233 | 3,644   | 3,243        | -11.0 | 147.5   | 24.7 | 22.0 | SE       |
| I         | 234 | 631     | 574          | -9.0  | 200.2   | 3.2  | 2.9  | SE       |

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| I         | 235             | 1,367   | 1,182   | -13.5            | 196.4         | 7.0  | 6.0  | SE    |
|-----------|-----------------|---------|---------|------------------|---------------|------|------|-------|
| I         | 236             | 3,016   | 2,836   | -12.6            | 241.7         | 12.5 | 10.9 | SE    |
| 1         | 237             | 5,516   | 5,349   | -3.0             | 267.4         | 20.6 | 20.0 | SE/NE |
| I         | 238             | 4,941   | 4,650   | -5.9             | 195.0         | 25.3 | 23.8 | SE/NE |
| 1         | 23 <del>9</del> | 1,913   | 1,702   | -11.0            | 121.1         | 15.8 | 14.1 | SE    |
| I         | 240             | 4,075   | 4,193   | 2.9              | 153.0         | 26.6 | 27.4 | SE/NE |
| l         | 241             | 1,463   | 1,495   | 2.2              | 101.3         | 14.4 | 14.8 | SE/NE |
| I         | 242             | 4,807   | 4,312   | -10.3            | 132.7         | 36.2 | 32.5 | NE    |
| I         | 243             | 4,511   | 4,294   | -4.8             | 167.0         | 27.0 | 25.7 | NE    |
| 1         | 244             | 4,200   | 3,671   | -12.6            | 103.8         | 40.5 | 35.4 | NE    |
| I         | 245             | 4,598   | 4,527   | -1.5             | 199.4         | 23.1 | 22.7 | NE    |
| I         | 246             | 3,633   | 3,310   | -8. <del>9</del> | 153.2         | 23.7 | 21.6 | NE    |
| ľ         | 247             | 5,823   | 5,640   | -3.1             | 231.8         | 25.1 | 24.3 | NE    |
| 1         | 248             | 2,719   | 2,210   | -18.7            | 80.6          | 33.7 | 27.4 | NE    |
| 1         | 249             | 4,446   | 4,144   | -6.8             | 80.3          | 55.4 | 51.6 | NE    |
| 1         | 250             | 909     | 914     | 0.6              | 184.1         | 4.9  | 5.0  | NE    |
| 1         | 251             | 2,448   | 2,275   | -7.1             | 132.2         | 18.5 | 17.2 | NE    |
| I         | 252             | 8,268   | 7,379   | -10.8            | 233.5         | 35.4 | 31.6 | NE    |
| 1         | 253             | 4,911   | 4,315   | -12.1            | 141.3         | 34.8 | 30.5 | NE    |
| 1         | 254             | 4,977   | 4,548   | -8.6             | <b>191</b> .0 | 26.1 | 23.8 | NE    |
| I         | 255             | 3,067   | 2,898   | -5.5             | 191.8         | 16.0 | 15.1 | SE/NE |
| I         | 256             | 3,071   | 2,971   | -3.3             | 214.7         | 14.3 | 13.8 | SE/NE |
| I         | 257             | 3,691   | 3,448   | -6.6             | 183.4         | 20.1 | 18.8 | SE    |
| Subtotal: |                 | 110,455 | 103,266 | -6.5             | 8,367.5       | 13.2 | 12.3 |       |
| J         | 258             | 2,106   | 1,838   | -12.7            | 144.3         | 14.6 | 12.7 | SE/NE |
| J         | 259             | 5,862   | 5,511   | -6.0             | 135.2         | 43,4 | 40.8 | SE/NE |
| J         | 260             | 3,625   | 3,502   | -3.4             | 133.9         | 27.1 | 26.2 | NE    |
| J         | 261             | 3,798   | 3,625   | -4.6             | 164.3         | 23.1 | 22.1 | NE    |
| J         | 262             | 5,371   | 5,177   | -3.6             | 137.1         | 39.2 | 37.8 | NE    |
| J         | 263             | 11,474  | 11,011  | -4.0             | 272.8         | 42.1 | 40.4 | NE    |
| J         | 264             | 6,841   | 6,443   | -5.8             | 196.9         | 34.7 | 32.7 | NE    |
| J         | 265             | 5,798   | 5,367   | -7.4             | 136.4         | 42.5 | 39.3 | NE    |

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| յ         | 266   | 8,328   | 7,490          | -10.1 | 222.4   | 37.4         | 33.7 | NE |   |
|-----------|-------|---------|----------------|-------|---------|--------------|------|----|---|
| J         | 267   | 8,650   | 7,834          | -9.4  | 158.9   | 54.4         | 49.3 | NE |   |
| J         | 266   | 4,933   | 4,644          | -5.9  | 189.5   | 26.0         | 24.5 | NE |   |
| J         | 269   | 2,023   | 2,294          | 13.4  | 154.2   | 13.1         | 14.9 | NE |   |
| J         | 270   | 2,474   | 2,275          | -8.0  | 158.4   | 15.6         | 14.4 | NE |   |
| J         | 271   | 2,206   | 2,455          | 11.3  | 93.2    | 23.7         | 26.3 | NE |   |
| J         | 272   | 4,739   | 4,446          | -6.2  | 162.8   | 29.1         | 27.3 | NE |   |
| J         | 273   | 5,316   | 5,525          | 3.9   | 230.5   | 23.1         | 24.0 | NE |   |
| J         | 274   | 8,911   | 9,620          | 8.0   | 207.6   | 42.9         | 46.3 | NE |   |
| J         | 275   | 4,516   | 4,651          | 3.0   | 152.5   | 29.6         | 30.5 | NE |   |
| J         | 276   | 4,595   | 4,250          | -7.5  | 163.8   | 28.1         | 25.9 | NE |   |
| J         | . 277 | 5,984   | 5,358          | -10.5 | 135.7   | 44.1         | 39.5 | NE |   |
| J         | 278   | 6,005   | 5,262          | -12.4 | 180.4   | 33.3         | 29.2 | NE |   |
| J         | 279   | 8,549   | 7,901          | -7.6  | 319.5   | 26.8         | 24.7 | NE |   |
| J         | 280   | 5,463   | 5,219          | -4.5  | 176.7   | 30.9         | 29.5 | NE |   |
| J         | 281   | 4,581   | 4,377          | -4.5  | 125.3   | 36.6         | 34.9 | NE |   |
| J         | 282   | 6,034   | 6,016          | -0.3  | 213.5   | 28.3         | 28.2 | NE |   |
| J         | 283   | 9,895   | 8,746          | -11.6 | 167.8   | <b>59.</b> 0 | 52.1 | NE |   |
| J         | 284   | 6,881   | 5 <b>,86</b> 5 | -14.8 | 117.6   | 58.5         | 49.9 | NE |   |
| J         | 285   | 2,157   | 2,259          | 4.7   | 70.7    | 30.5         | 32.0 | NE |   |
| J         | 286   | 6,630   | 7,114          | 7.3   | 168.8   | 39.3         | 42.1 | NE |   |
| J         | 287   | 2,299   | 2,468          | 7.4   | 87.5    | 26.3         | 28.2 | NE |   |
| J         | 288   | 3,595   | 3,853          | 7.2   | 114.9   | 31.3         | 33.5 | NE |   |
| J         | 289   | 8,963   | 8,484          | -5.3  | 292.1   | 30.7         | 29.0 | NE |   |
| J         | 290   | 5,437   | 5,670          | 4.3   | 198.7   | 27.4         | 28.5 | NE |   |
| Subtotal: |       | 184,039 | 176,550        | -4.1  | 5,583.9 | 33.0         | 31.6 |    |   |
| к         | 291   | 4,263   | 4,461          | 4.6   | 334.8   | 12.7         | 13.3 | NE | 1 |
| К         | 292   | 4,015   | 3,965          | -1.2  | 421.1   | 9.5          | 9.4  | NE |   |
| K         | 293   | 3,039 ົ | 2,878          | -5.3  | 172.2   | 17.6         | 16.7 | NE |   |
| K         | 294   | 3,352   | 3,216          | -4.1  | 164.6   | 20.4         | 19.5 | NE |   |
| К         | 295   | 1,088   | 1,067          | -1.9  | 156.9   | 6.9          | 6.8  | NE |   |
| K         | 296   | 1,186   | 1,172          | -1.2  | 58.3    | 20.3         | 20.1 | NE |   |

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| к | 297             | 483    | 454     | -6.0  | 176.2 | 2.7  | 2.6  | NE |
|---|-----------------|--------|---------|-------|-------|------|------|----|
| к | 298             | 4,609  | 4,216   | -8.5  | 160.4 | 28.7 | 26.3 | NE |
| к | 29 <del>9</del> | 4,698  | 4,332   | -7.8  | 147.8 | 31.8 | 29.3 | NE |
| к | 300             | 6,937  | 6,867   | -1.0  | 225.4 | 30.8 | 30.5 | NE |
| К | 301             | 5,544  | 5,603   | 1.1   | 180.4 | 30.7 | 31.1 | NE |
| К | 302             | 6,616  | 6,514   | -1.5  | 220.9 | 30.0 | 29.5 | NE |
| К | 303             | 7,715  | 6,947   | -10.0 | 208.3 | 37.0 | 33.4 | NE |
| К | 304             | 508    | 631     | 24.2  | 307.4 | 1.7  | 2.1  | NE |
| К | 305             | 10,220 | 9,557   | -6.5  | 264.2 | 38.7 | 36.2 | NE |
| К | 306             | 6,526  | 6,518   | -0.1  | 247.1 | 26.4 | 26.4 | NE |
| К | 307             | 2,943  | 2,929   | -0.5  | 158.6 | 18.6 | 18.5 | NE |
| К | 308             | 4,410  | 4,403   | -0.2  | 195.2 | 22.6 | 22.6 | NE |
| К | 309             | 3,286  | 3,278   | -0.2  | 158.9 | 20.7 | 20.6 | NE |
| К | 310             | 5,774  | 5,636   | -2.4  | 266.4 | 21.7 | 21.2 | NE |
| К | 311             | 8,316  | 7,940   | -4.5  | 185.1 | 44.9 | 42.9 | NE |
| К | 312             | 3,982  | 3,857   | -3.1  | 102.3 | 38.9 | 37.7 | NE |
| К | 313             | 5,681  | 5,396   | -5.0  | 178.2 | 31.9 | 30.3 | NE |
| К | 314             | 10,137 | 9,575   | -5.5  | 280.5 | 36.1 | 34.1 | NE |
| К | 315             | 9,986  | 9,379   | -6.1  | 293.3 | 34.0 | 32.0 | NE |
| К | 316             | 6,023  | 5,530   | -8.2  | 180.9 | 33.3 | 30.6 | NE |
| К | 317             | 6,196  | 5,581   | -9.9  | 217.0 | 28.6 | 25.7 | NE |
| К | 318             | 3,591  | 3,456   | -3.8  | 117.9 | 30.5 | 29.3 | NE |
| К | 319             | 5,023  | 4,810   | -4.2  | 188.8 | 26.6 | 25.5 | NE |
| К | 320             | 7,056  | 6,449   | -8.6  | 171.0 | 41.3 | 37.7 | NE |
| К | 321             | 4,081  | 3,906   | -4.3  | 136.4 | 29.9 | 28.6 | NE |
| К | 322             | 225    | 179     | -20.4 | 138.4 | 1.6  | 1.3  | NE |
| К | 323             | 3,860  | 3,596   | -6.8  | 150.2 | 25.7 | 23.9 | NE |
| К | 324             | 14     | 15      | 7.1   | 168.3 | 0.1  | 0.1  | NE |
| К | 325             | 6,011  | 5,747   | -4.4  | 207.8 | 28.9 | 27.7 | NE |
| К | 326             | 7,195  | 6,733 . | -6.4  | 199.9 | 36.0 | 33.7 | NE |
| К | 327             | 284    | 307     | 8.1   | 340.8 | 0.8  | 0.9  | NE |
| К | 329             | 4,385  | 4,216   | -3.9  | 233.0 | 18.8 | 18.1 | NE |
| К | 330             | 8,122  | 7,408   | -8.8  | 184.1 | 44.1 | 40.2 | NE |
| К | 331             | 9,370  | 9,099   | -2.9  | 294.3 | 31.8 | 30.9 | NE |

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| 14. mars | for a set of an |         | en men en e | چ در ۱۹۹۹ و۹۵۰۰ و۱۰۰<br>۱۹۹۷ - ۲۰۰۶<br>۲۰۰۶ - ۲۰۰۹<br>۲۰۰۹ - ۲۰۰۹ (۱۹۹۹ - ۲۰۰۹) | na na sana na sa |       |               | ~ · · |              | n thm t − 1<br>V − 1<br>at hypt stormand v |
|----------|-----------------|---------|----------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|-------|---------------|-------|--------------|--------------------------------------------|
|          |                 |         |                                              |                                                                                 |                                                      |       |               |       |              |                                            |
|          |                 | к       | 332                                          | 2,824                                                                           | 2,594                                                | -8.1  | 207.1         | 13.6  | 12.5         | NE                                         |
|          |                 | К       | 333                                          | 3,842                                                                           | 4,025                                                | 4.8   | 257.2         | 14.9  | 15.6         | NE                                         |
|          |                 | К       | 334                                          | 4,812                                                                           | 4,456                                                | -7.4  | 291.1         | 16.5  | 15.3         | NE                                         |
|          |                 | К       | 335                                          | 3,481                                                                           | 3,400                                                | -2.3  | 226.6         | 15.4  | 15.0         | NE                                         |
|          |                 | К       | 336                                          | 6,751                                                                           | 6,148                                                | -8.9  | 279.5         | 24.2  | 22.0         | NE                                         |
|          |                 | К       | 337                                          | 9,671                                                                           | 9,025                                                | -6.7  | 504.3         | 19.2  | 17.9         | NE                                         |
|          |                 | К       | 338                                          | 5,655                                                                           | 5,461                                                | -3.4  | 344.5         | 16.4  | 15.9         | NE                                         |
|          |                 | K       | 339                                          | 3,044                                                                           | 2,862                                                | -6.0  | 281.7         | 10.8  | 10.2         | NE                                         |
|          |                 | К       | 340                                          | 2,820                                                                           | 2,518                                                | -10.7 | 187.1         | 15.1  | 13.5         | NE                                         |
|          |                 | К       | 341                                          | 5,775                                                                           | 5,567                                                | -3.6  | 333.8         | 17.3  | 16.7         | NE                                         |
|          |                 | к       | 342                                          | 3,134                                                                           | 3,369                                                | 7.5   | 245.1         | 12.8  | 13.7         | NE                                         |
|          |                 | К       | 367 \$                                       | 0                                                                               | 3                                                    | 0.0   | N/A           | N/A   | N/A          | NE                                         |
|          |                 | Subtota | al:                                          | 248,559                                                                         | 237,251                                              | -4.5  | 11,351.3      | 21.9  | 20.9         |                                            |
|          |                 | L       | 328                                          | 2,671                                                                           | 5,371                                                | 101.1 | 662.2         | 4.0   | 8.1          | NE                                         |
|          |                 | L       | 343                                          | 171                                                                             | 168                                                  | -1.8  | 1,336.3       | 0.1   | 0.1          | NE                                         |
|          |                 | L       | 344                                          | 8,641                                                                           | 7,792                                                | -9.8  | 852.0         | 10.1  | 9.1          | NE                                         |
|          |                 | L       | 345                                          | 5, <b>8</b> 52                                                                  | 7,947                                                | 35.8  | 355.6         | 16.5  | <b>2</b> 2.3 | NE                                         |
|          |                 | L       | 346                                          | 1,456                                                                           | 1,397                                                | -4.1  | 453.7         | 3.2   | 3.1          | NE                                         |
|          |                 | L       | 347                                          | 11,864                                                                          | 10,557                                               | -11.0 | 530. <b>8</b> | 22.4  | 19.9         | NE                                         |
|          |                 | L       | 348                                          | 15,947                                                                          | 14,902                                               | -6.6  | 967.7         | 16.5  | 15.4         | NE                                         |
|          |                 | L       | 349                                          | 7,583                                                                           | 7,002                                                | -7.7  | 483.3         | 15.7  | 14.5         | NE                                         |
|          |                 | L       | 351                                          | 2,650                                                                           | 3,808                                                | 43.7  | 243.6         | 10.9  | 15.6         | NE                                         |
|          |                 | L       | 352                                          | 4,896                                                                           | 4,580                                                | -6.5  | 461.8         | 10.6  | 9.9          | NE                                         |
|          |                 | L       | 353                                          | 11,617                                                                          | 10,742                                               | -7.5  | 757.1         | 15.3  | 14.2         | NE                                         |
|          |                 | L       | 354                                          | 5                                                                               | 31                                                   | 520.0 | 1,889.9       | 0.0   | 0.0          | NE                                         |
|          |                 | L       | 355                                          | 8,243                                                                           | 6,953                                                | -15.6 | 576.0         | 14.3  | 12.1         | NE                                         |
|          |                 | L       | 356                                          | 7,691                                                                           | 8,376                                                | 8.9   | 850.0         | 9.0   | 9.9          | NE                                         |
|          |                 | Ĺ       | 357                                          | 8,763                                                                           | 8,670                                                | -1.1  | 530.3         | 16.5  | 16.3         | NE                                         |
|          |                 | L       | 358                                          | 7,172                                                                           | 6,113                                                | -14.8 | 434.7         | 16.5  | 14.1         | NE                                         |
|          |                 | L       | 359                                          | 4,298                                                                           | 5,454                                                | 26.9  | 558.5         | 7.7   | 9.8          | NE                                         |
|          |                 | L       | 360                                          | 2,787                                                                           | 3,061                                                | 9.8   | 575.3         | 4.8   | 5.3          | NE                                         |
|          |                 | L       | 361                                          | 4,764                                                                           | 4,046                                                | -15.1 | 300 <b>.0</b> | 15.9  | 13.5         | NE                                         |

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| Total:    |     | 1,688,210 | 1,585,577 | -6.1  | 86,482.3         | 19.5 | 18.3 |    |
|-----------|-----|-----------|-----------|-------|------------------|------|------|----|
| Subtotal: |     | 163,371   | 160,547   | -1.7  | 17,021. <b>2</b> | 9.6  | 9.4  |    |
| L         | 365 | 7,476     | 9,336     | 24.9  | 888.3            | 8.4  | 10.5 | NE |
| L         | 364 | 1,261     | 547       | -56.6 | 1,072.7          | 1.2  | 0.5  | NE |
| L         | 363 | 17,998    | 15,723    | -12.6 | 1,336.8          | 13.5 | 11.8 | NE |
| L         | 362 | 19,565    | 17,971    | -8.1  | 904.6            | 21.6 | 19.9 | NE |

\* Population living on boats, adjacent to tract\$ One house, minimal acerage

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# City of Philadelphia 1990 - 1996 Census Data Comparison

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# Population

| Planning  |          | 1990       | 1996       | Percent | Tract   | 1990     | 1996     | WWTP    |
|-----------|----------|------------|------------|---------|---------|----------|----------|---------|
| Analysis  | Tract    | Total      | Projected  | Change  | Area    | People   | People   | Service |
| Section   | No.      | Population | Population | 90 - 96 | Acres   | per Acre | per acre | Area    |
| А         | 1        | 2.073      | 2.951      | 42.4    | 175.2   | 11.8     | 16.8     | SE      |
| А         | 2        | 1,403      | 1.480      | 5.5     | 100.6   | 13.9     | 14.7     | SE      |
| A         | 3        | 2.427      | 2.635      | 8.6     | 139.1   | 17.4     | 18.9     | SW      |
| А         | 4        | 3,206      | 2,672      | -16.7   | 129.2   | 24.8     | 20.7     | SE/SW   |
| А         | 5        | 1,055      | 1,406      | 33.3    | 106.5   | 9.9      | 13.2     | ŚE      |
| Α         | 6        | 349        | 342        | -2.0    | 42.3    | 8.3      | 8.1      | SE      |
| А         | 7        | 3,069      | 3,415      | 11.3    | 62.0    | 49.5     | 55.1     | SE      |
| Α         | 8        | 7,637      | 7,414      | -2.9    | 99.1    | 77.1     | 74.8     | SE      |
| А         | 9        | 4,234      | 4,434      | 4.7     | 64.7    | 65.4     | 68.5     | SE      |
| А         | 10       | 5,715      | 6,158      | 7.8     | 174.2   | 32.8     | 35.4     | SE      |
| А         | 11       | 5,594      | 5,376      | -3.9    | , 91.9  | 60.9     | 58.5     | SE      |
| А         | 12       | 8,452      | 8,620      | 2.0     | 158.6   | 53.3     | 54.4     | SE/SW   |
| Α         | 366      | 400        | 400        | 0.0     | 250.8   | 1.6      | 1.6      | SE      |
| А         | 366.99 * | 31         | 31         | 0.0     | N/A     | N/A      | N/A      | SE      |
| Subtotal: |          | 45,645     | 47,334     | 3.7     | 1,594.2 | 28.6     | 29.7     |         |
| в         | 13       | 4.520      | 4,243      | -6.1    | 177.7   | 25.4     | 23.9     | sw      |
| в         | 14       | 3.763      | 3,941      | 4.7     | 79.3    | 47.5     | 49.7     | SE/SW   |
| в         | 15       | 2,537      | 2,568      | 1.2     | 58.6    | 43.3     | 43.8     | ŚE      |
| в         | 16       | 1,943      | 2,430      | 25.1    | 49.4    | 39.3     | 49.2     | SE      |
| В         | 17       | 2,493      | 2,951      | 18.4    | 50.7    | 49.2     | 58.2     | SE      |
| В         | 18       | 3,247      | 3,089      | -4.9    | 59.3    | 54.8     | 52.1     | SE      |
| в         | 19       | 2.419      | 1,902      | -21.4   | 81.5    | 29.7     | 23.3     | SE/SW   |

| в | 20               | 2,516  | 2,459  | -2.3         | 71.9         | 35.0          | 34.2 | SW    |
|---|------------------|--------|--------|--------------|--------------|---------------|------|-------|
| B | 21               | 2,636  | 2,577  | -2.2         | 58.8         | 44.8          | 43.8 | SE/SW |
| в | 22               | 2,195  | 2,163  | -1.5         | 59.1         | 37.1          | 36.6 | SE/SW |
| В | 23               | 2,529  | 2,375  | -6.1         | 52.6         | 48.1          | 45.2 | SE    |
| в | 24               | 4,311  | 4,125  | -4.3         | 132.0        | 32.7          | 31.3 | SE    |
| В | 25               | 3,435  | 2,849  | -17.1        | 98.6         | 34.8          | 28.9 | SE    |
| в | 26               | 0      | 0      | 0.0          | 113.7        | 0.0           | 0.0  | SE    |
| в | 27               | 7,365  | 6,825  | -7.3         | 146.5        | 50.3          | 46.6 | SE    |
| в | 28               | 8,968  | 8,714  | -2.8         | 146.0        | 61.4          | 59.7 | SE    |
| в | 29               | 4,017  | 3,535  | -12.0        | 89.7         | 44.8          | 39.4 | SE    |
| в | 30               | 8,364  | 8,660  | 3.5          | 117.6        | 71.1          | 73.6 | SE/SW |
| в | 31               | 5,902  | 5,701  | -3.4         | 97.6         | 60.5          | 58.4 | SW    |
| в | 32               | 6,147  | 5,814  | -5.4         | 122.3        | 50. <b>3</b>  | 47.5 | SW    |
| В | 33               | 6,128  | 5,647  | -7.8         | 185.6        | 33.0          | 30.4 | SW    |
| в | 34               | 466    | 428    | -8.2         | 146.5        | 3.2           | 2.9  | SW    |
| в | 35               | 95     | 83     | -12.6        | 406.7        | 0.2           | 0.2  | SW    |
| в | 36               | 7,429  | 7,330  | -1.3         | 220.4        | 33.7          | 33.3 | SW    |
| в | 37               | 10,373 | 10,163 | -2.0         | 151.7        | 68.4          | 67.0 | SW    |
| в | 38.99            | 4,092  | 3,861  | -5.6         | 171.7        | 23.8          | 22.5 | SW    |
| в | 39               | 11,853 | 11,159 | -5.9         | 222.1        | 53.4          | 50.2 | SE/SW |
| в | 40               | 9,447  | 8,723  | -7.7         | 160.1        | 5 <b>9</b> .0 | 54.5 | SE    |
| в | 41               | 13,326 | 12,621 | -5.3         | <b>191.8</b> | 69.5          | 65.8 | SE    |
| в | 42               | 11,081 | 10,791 | -2.6         | 198.4        | 55. <b>9</b>  | 54.4 | SE    |
| в | 43               | 46     | 75     | <b>6</b> 3.0 | 466.5        | 0.1           | 0.2  | SE    |
| в | 43.99 *          | 0      | 0      | 0.0          | N/A          | N/A           | N/A  | SE    |
| в | 44               | 1,078  | 1,003  | -7.0         | 142.6        | 7.6           | 7.0  | SE    |
| в | 45               | 3,255  | 3,111  | -4.4         | 123.3        | 26.4          | 25.2 | SE    |
| В | 46               | 2,391  | 2,112  | -11.7        | 923.4        | 2.6           | 2.3  | SE ·  |
| в | 47.98            | 4,370  | 4,285  | -1.9         | 205.6        | 21.3          | 20.8 | SE    |
| в | 48               | 526    | 477    | -9.3         | 112.2        | 4.7           | 4.3  | SE    |
| в | 49               | 0      | 0      | 0.0          | 1,092.9      | 0.0           | 0.0  | SE    |
| в | 50               | 2,229  | 1,927  | -13.5        | 1,110.0      | 2.0           | 1.7  | SE/SW |
| в | 50. <b>9</b> 9 * | 2,287  | 2,141  | -6.4         | N/A          | N/A           | N/A  | SE/SW |
| в | 51               | 1,165  | 1,270  | 9.0          | 596.3        | 2.0           | 2.1  | SW    |

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| Subtotal: |    | 170,944 | 164,128 | -4.0   | 8,690.7 | 19.7 | 18.9 |    |
|-----------|----|---------|---------|--------|---------|------|------|----|
| С         | 52 | 53      | 67      | 26.4   | 2,140.7 | 0.0  | 0.0  | sw |
| С         | 54 | 1,271   | 1,493   | 17.5   | 436.6   | 2.9  | 3.4  | SW |
| С         | 55 | 6,293   | 6,397   | 1.7    | 296.5   | 21.2 | 21.6 | SW |
| С         | 56 | 1,217   | 1,209   | -0.7   | 207.6   | 5.9  | 5.8  | SW |
| С         | 57 | 3       | 0       | -100.0 | 318.5   | 0.0  | 0.0  | SW |
| С         | 58 | 32      | 52      | 62.5   | 838.9   | 0.0  | 0.1  | SW |
| С         | 59 | 0       | 0       | 0.0    | 96.4    | 0.0  | 0.0  | SW |
| С         | 60 | 6,554   | 6,480   | -1.1   | 268.6   | 24.4 | 24.1 | SW |
| С         | 61 | 3,146   | 2,978   | -5.3   | 132.0   | 23.8 | 22.6 | SW |
| С         | 62 | 4,038   | 3,953   | -2.1   | 124.8   | 32.4 | 31.7 | SW |
| С         | 63 | 4,709   | 4,730   | 0.4    | 137.1   | 34.3 | 34.5 | SW |
| С         | 64 | 4,512   | 4,374   | -3.1   | 163.8   | 27.5 | 26.7 | SW |
| С         | 65 | 6,283   | 6,137   | -2.3   | 286.4   | 21.9 | 21.4 | SW |
| С         | 66 | 4,218   | 4,251   | 0.8    | 162.1   | 26.0 | 26.2 | SW |
| С         | 67 | 6,431   | 6,159   | -4.2   | 248.3   | 25.9 | 24.8 | SW |
| С         | 68 | 0       | 0       | 0.0    | 225.4   | 0.0  | 0.0  | SW |
| С         | 69 | 2,520   | 2,324   | -7.8   | 150.2   | 16.8 | 15.5 | SW |
| С         | 70 | 5,374   | 5,275   | -1.8   | 115.9   | 46.4 | 45.5 | SW |
| С         | 71 | 9,952   | 9,859   | -0.9   | 165.6   | 60.1 | 59.5 | SW |
| С         | 72 | 6,112   | 5,963   | -2.4   | 120.8   | 50.6 | 49.4 | SW |
| С         | 73 | 3,722   | 3,506   | -5.8   | 96.6    | 38.5 | 36.3 | SW |
| С         | 74 | 5,445   | 5,233   | -3.9   | 167.0   | 32.6 | 31.3 | SW |
| С         | 75 | 0       | 0       | 0.0    | 123.1   | 0.0  | 0.0  | SW |
| Subtotal: |    | 81,885  | 80,440  | -1.8   | 7,022.9 | 11.7 | 11.5 |    |
| D         | 76 | 416     | 389     | -6.5   | 248.3   | 1.7  | 1.6  | sw |
| D         | 77 | 2,253   | 2,236   | -0.8   | 80.3    | 28.1 | 27.8 | SW |
| D         | 78 | 4,776   | 4,498   | -5.8   | 107.2   | 44.6 | 42.0 | SW |
| D         | 79 | 4,729   | 4,565   | -3.5   | 93.2    | 50.7 | 49.0 | SW |
| D         | 80 | 5,031   | 4,746   | -5.7   | 105.8   | 47.6 | 44.9 | SW |

| D | 81         | 9,314              | 8,902              | -4.4  | 152.0         | 61.3         | 58.6             | SW |
|---|------------|--------------------|--------------------|-------|---------------|--------------|------------------|----|
| D | 82         | 8,020              | 7,527              | -6.1  | 206.1         | 38.9         | <b>36.5</b>      | SW |
| D | 83         | 10,33 <del>6</del> | 10,02 <del>9</del> | -3.0  | 232.8         | <b>44</b> .4 | 43.1             | SW |
| D | 84         | . 5,286            | 5,161              | -2.4  | 122.8         | 43.0         | 42.0             | SW |
| D | 85         | 7,761              | 7,623              | -1.8  | 154.2         | 50.3         | 49.4             | SW |
| D | <b>8</b> 6 | 6 <b>,685</b>      | 6, <b>837</b>      | 2.3   | 154.9         | 43.2         | 44.1             | SW |
| D | 87         | 7,249              | 7,410              | 2.2   | 133.2         | 54.4         | 55. <b>6</b>     | SW |
| D | 88         | 9,190              | 9,600              | 4.5   | 140.6         | 65.4         | 68.3             | SW |
| D | 89         | 2,786              | 2,904              | 4.2   | 216.0         | 12.9         | 13.4             | SW |
| D | 90         | 4,473              | 5,070              | 13.3  | 110.2         | 40.6         | 46.0             | SW |
| D | 91         | 2,968              | 3,125              | 5.3   | 103.5         | 28.7         | 30.2             | SW |
| D | 92         | 3,197              | 3,098              | -3.1  | 127.3         | 25.1         | 24.3             | SW |
| D | 93         | 4,922              | 4,784              | -2.8  | 99.6          | 49.4         | 48.0             | SW |
| D | 94         | 4,226              | 4,255              | 0.7   | 92.2          | 45.8         | 46.1             | SW |
| D | 95         | 3,877              | 3,745              | -3.4  | 80.1          | 48.4         | 46.8             | SW |
| D | 96         | 4,915              | 4,798              | -2,4  | 101.3         | 48.5         | 47.4             | SW |
| D | 97         | 89                 | 118                | 32.6  | 527.1         | 0.2          | 0.2              | SW |
| D | 98         | 7,271              | 7,146              | -1.7  | 223.4         | 32.5         | 32.0             | SW |
| D | 99         | 366                | 364                | -0.5  | 50.9          | 7.2          | 7.2              | SW |
| D | 100        | 3,882              | 3,599              | -7.3  | 136, <b>6</b> | 28.4         | 26.3             | SW |
| D | 101        | 6,389              | 6,192              | -3.1  | 149.0         | 42.9         | 41.6             | SŴ |
| D | 102        | 3,231              | 3,262              | 1.0   | 88.5          | 36.5         | 36.9             | SW |
| D | 103        | 2,933              | 2,843              | -3.1  | 71.2          | 41.2         | 39.9             | SW |
| D | 104        | 4,251              | 4,171              | -1.9  | 116.6         | 36.5         | 35.8             | SW |
| D | 105        | 4,535              | 4,213              | -7.1  | 165.1         | 27.5         | 25.5             | SW |
| D | 106        | 1,622              | 1,467              | -9.6  | 64.0          | 25.3         | 22.9             | SW |
| D | 107        | 4,166              | 3,946              | -5.3  | 114.4         | 36.4         | 34.5             | SW |
| D | 108        | 4,727              | 4,183              | -11.5 | 132.7         | 35.6         | 31.5             | SW |
| D | 109        | 2,503              | 2,242              | -10.4 | 63.8          | 39.2         | 35.1             | SW |
| D | 110        | 4,591              | 4,534              | -1.2  | 119.8         | 38.3         | 37.8             | SW |
| D | 111        | 5,333              | 5,190              | -2.7  | 325.9         | 16.4         | 15. <del>9</del> | SW |
| D | 112        | 6,547              | 6,580              | 0.5   | 125.0         | 52.4         | 52.6             | SW |
| D | 113        | 3,545              | 3,446              | -2.8  | 85.3          | 41.6         | 40.4             | SW |
| D | 114        | 7,232              | 7,168              | -0.9  | 240.7         | 30.0         | 29.8             | SW |

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| D         | 115 | 3,776   | 3,525   | -6.6  | 88.5            | 42.7 | 39.8 | SW    |
|-----------|-----|---------|---------|-------|-----------------|------|------|-------|
| D         | 116 | 2,997   | 2,882   | -3.8  | 185.1           | 16.2 | 15.6 | SW    |
| D         | 117 | 2,088   | 1,763   | -15.6 | 164.1           | 12.7 | 10.7 | SW    |
| D         | 118 | 7,059   | 6,919   | -2.0  | 232.3           | 30.4 | 29.8 | SW    |
| D         | 119 | 6,302   | 6,478   | 2.8   | 172.5           | 36.5 | 37.6 | SW    |
| D         | 120 | 1,781   | 1,832   | 2.9   | 148.0           | 12.0 | 12.4 | SW    |
| D         | 121 | 3,007   | 3,037   | 1.0   | 221.2           | 13.6 | 13.7 | SW    |
| D         | 122 | 6,955   | 7,001   | 0.7   | 353.4           | 19.7 | 19.8 | SW    |
| D         | 123 | 117     | 119     | 1.7   | 1,362.5         | 0.1  | 0.1  | SW    |
| D         | 124 | 8       | 7       | -12.5 | 298.7           | 0.0  | 0.0  | SW    |
| Subtotal: |     | 219,713 | 215,529 | -1.9  | 8,887 <b>.9</b> | 24.7 | 24.2 |       |
| Е         | 125 | 3,612   | 3,697   | 2.4   | 207.3           | 17.4 | 17.8 | SE/SW |
| Е         | 126 | 635     | 784     | 23.5  | 90,7            | 7.0  | 8.6  | ŚE    |
| Е         | 127 | 399     | 416     | 4.3   | 83.3            | 4.8  | 5.0  | SE    |
| Е         | 128 | 163     | 220     | 35.0  | 63.5            | 2.6  | 3.5  | SE    |
| Е         | 129 | 430     | 552     | 28.4  | 89.5            | 4.8  | 6.2  | SE    |
| Е         | 130 | 1,009   | 1,117   | 10.7  | 51.4            | 19.6 | 21.7 | SE    |
| Е         | 131 | 2,200   | 1,988   | -9.6  | 79.1            | 27.8 | 25.1 | SE    |
| Е         | 132 | 4,166   | 3,604   | -13.5 | 107.0           | 38.9 | 33.7 | SE    |
| Е         | 133 | 2,264   | 1,990   | -12.1 | 88.7            | 25.5 | 22.4 | SE    |
| Е         | 134 | 5,401   | 5,295   | -2.0  | 105.8           | 51.0 | 50.0 | SE/SW |
| Е         | 135 | 3,726   | 3,844   | 3.2   | 100.3           | 37.1 | 38.3 | SE/SW |
| Е         | 136 | 5,882   | 5,604   | -4.7  | 99.8            | 58.9 | 56.2 | SE/SW |
| Е         | 137 | 6,573   | 6,237   | -5.1  | 150.0           | 43.8 | 41.6 | SE/SW |
| Ε         | 138 | 2,941   | 2,597   | -11.7 | 87.0            | 33.8 | 29.9 | SE/SW |
| Е         | 139 | 4,785   | 4,298   | -10.2 | 140.1           | 34.2 | 30.7 | SE    |
| Е         | 140 | 3,594   | 3,122   | -13.1 | 105.5           | 34.1 | 29.6 | SE    |
| Е         | 141 | 2,788   | 2,434   | -12.1 | 141.3           | 19.6 | 17.2 | SE    |
| Е         | 142 | 2,190   | 2,191   | 0.0   | 196.2           | 11.2 | 11.2 | SE    |
| Ε         | 144 | 3,331   | 3,369   | 1.1   | 154.2           | 21.6 | 21.8 | SE    |
| Е         | 145 | 2,006   | 1,708   | -14.9 | 80.1            | 25.0 | 21.3 | SE    |
| E         | 146 | 3,322   | 3,081   | -7.3  | 112.7           | 29.5 | 27.3 | SE    |

| E         | 147 | 2,437   | 1,895   | -22.2         | 85. <del>5</del> | 28.5 | 22.2              | SE       |
|-----------|-----|---------|---------|---------------|------------------|------|-------------------|----------|
| E         | 148 | 1,278   | 1,058   | -17.2         | 47.2             | 27.1 | 22.4              | SE       |
| E         | 149 | 5,834   | 5,397   | -7.5          | 110.0            | 53.0 | 4 <del>9</del> .1 | SE/SW    |
| Е         | 150 | 97      | 152     | 56.7          | 588.8            | 0.2  | 0.3               | SW       |
| E         | 151 | 9,215   | 8,543   | -7.3          | 187.1            | 49.3 | 45.7              | SE/SW    |
| E         | 152 | 8,134   | 6,827   | -16.1         | 161.9            | 50.2 | 42,2              | SE       |
| E         | 153 | 3,621   | 2,970   | -18.0         | 113.7            | 31.8 | 26.1              | SE       |
| Е         | 154 | 1,819   | 1,851   | 1.8           | 76.8             | 23.7 | 24.1              | SE       |
| E         | 155 | 3,413   | 2,951   | -13.5         | 104.0            | 32.8 | 28.4              | SE       |
| Е         | 156 | 2,386   | 2,192   | -8.1          | 106.0            | 22.5 | 20.7              | SE       |
| E         | 157 | 2,764   | 2,893   | 4.7           | 122.3            | 22.6 | 23.7              | SE       |
| Е         | 162 | 2,858   | 2,554   | -10.6         | 86.2             | 33.2 | 29.6              | SE       |
| E         | 163 | 4,147   | 4,168   | 0.5           | 139.6            | 29.7 | 29.9              | SE       |
| E         | 164 | 5,589   | 5,374   | -3.8          | 118.4            | 47.2 | 45.4              | SE/NE    |
| E         | 165 | 3,870   | 3,323   | -14.1         | <b>99.1</b>      | 39.1 | 33.5              | SE       |
| E .       | 166 | 1,475   | 1,332   | -9.7          | 63.3             | 23.3 | 21.0              | SE       |
| E         | 167 | 8,509   | 7,670   | -9.9          | 151.2            | 56.3 | 50.7              | SE       |
| E         | 168 | 5,370   | 5,155   | -4.0          | 142.8            | 37.6 | 36.1              | SE       |
| E         | 169 | 12,278  | 11,268  | -8.2          | 266.6            | 46.1 | 42.3              | SE/SW    |
| Subtotal: |     | 146,491 | 135,721 | -7.4          | 5,104.0          | 28.7 | 26.6              |          |
| F         | 170 | 3,927   | 3,702   | -5.7          | 392.4            | 10.0 | 9.4               | SE/SW    |
| F         | 171 | 5,276   | 4,954   | -6.1          | 282.9            | 18.6 | 17.5              | SE/SW/NE |
| F         | 172 | 9,976   | 9,426   | -5.5          | 138.4            | 72.1 | 68.1              | SE/SW    |
| F         | 173 | 3,815   | 3,768   | -1.2          | 217.0            | 17.6 | 17.4              | SE/SW/NE |
| F         | 174 | 3,406   | 3,252   | -4.5          | 86.0             | 39.6 | 37.8              | NE       |
| F         | 175 | 9,010   | 8,779   | -2.6          | 176.7            | 51.0 | 49.7              | SE/NE    |
| F         | 176 | 11,464  | 12,055  | 5.2           | 243.6            | 47.1 | 49.5              | SE       |
| F         | 194 | 361     | 417     | 1 <b>5</b> .5 | 332.6            | 1.1  | 1.3               | NE       |
| F         | 195 | 8,707   | 9,029   | 3.7           | 193.7            | 45.0 | 46.6              | SE/NE    |
| F         | 196 | 2,639   | 2,828   | 7.2           | 185.3            | 14.2 | 15.3              | SE/NE    |
| F         | 197 | 7,736   | 8,186   | 5.8           | 210.8            | 36.7 | 38.8              | NE       |
| F         | 198 | 6,966   | 6,778   | -2.7          | 133.4            | 52.2 | 50.8              | NE       |

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| F         | 199      | 5,390   | 5,207   | -3.4         | 164.6   | 32.7 | 31.6         | SE/NE |
|-----------|----------|---------|---------|--------------|---------|------|--------------|-------|
| F         | 200      | 2,176   | 1,971   | -9.4         | 79.6    | 27.3 | 24.8         | NE    |
| F         | 201      | 8,049   | 7,329   | -8.9         | 215.7   | 37.3 | 34.0         | NE    |
| F         | 202      | 6,102   | 5,596   | -8.3         | 188.8   | 32.3 | 29.6         | SE/NE |
| F         | 203      | 3,780   | 3,334   | -11.8        | 130.0   | 29.1 | 25.6         | NE    |
| F         | 204      | 3,805   | 3,643   | -4.3         | 101.8   | 37.4 | 35.8         | NE    |
| F         | 205      | 3,460   | 3,600   | 4.0          | 354.1   | 9.8  | 10.2         | SE/NE |
| Subtotal: |          | 106,045 | 103,854 | <b>-2.</b> 1 | 3,827.4 | 27.7 | <b>27.</b> 1 |       |
| G         | 143      | 1,470   | 1,445   | -1.7         | 136.9   | 10.7 | 10.6         | SE    |
| G         | 158      | 6,059   | 5,748   | -5.1         | 147.0   | 41.2 | 39.1         | SE    |
| G         | 159      | 1,765   | 1,701   | -3.6         | 171.5   | 10.3 | 9.9          | SE    |
| G         | 160      | 7,973   | 7,841   | -1.7         | 176.4   | 45.2 | 44.5         | SE    |
| G         | 161      | 6,034   | 5,834   | -3.3         | 172.0   | 35.1 | 33,9         | SE    |
| G         | 177      | 8,597   | 8,414   | -2.1         | 176.4   | 48.7 | 47.7         | SE/NE |
| G         | 178      | 6,252   | 5,991   | -4.2         | 167.5   | 37.3 | 35.8         | SE/NE |
| G         | 179      | 6,435   | 6,233   | -3.1         | 167.8   | 38.3 | 37.1         | NE    |
| G         | 180      | 8,419   | 8,388   | -0.4         | 201.1   | 41.9 | 41.7         | NE    |
| G         | 181      | 197     | 203     | 3.0          | 170.7   | 1.2  | 1.2          | NE    |
| G         | 182      | 375     | 376     | 0.3          | 581.7   | 0.6  | 0.6          | NE    |
| G         | 182.99 * | 0       | 0       | 0.0          | N/A     | N/A  | N/A          | NE    |
| G         | 183      | 4,225   | 4,136   | -2.1         | 520.6   | 8.1  | 7.9          | NE    |
| G         | 184      | 2,306   | 2,325   | 0.8          | 282.4   | 8.2  | 8.2          | NE    |
| G         | 185      | 134     | 129     | -3.7         | 163.6   | 0.8  | 0.8          | NE    |
| G         | 186      | 4,821   | 4,711   | -2.3         | 176.2   | 27.4 | 26.7         | NE    |
| G         | 187      | 1,773   | 1,804   | 1.7          | 198.9   | 8.9  | 9.1          | NE    |
| G         | 188      | 7,167   | 7,113   | -0.8         | 166.3   | 43.1 | 42.8         | NE    |
| G         | 189      | 1,013   | 1,014   | 0.1          | 252.5   | 4.0  | 4.0          | NE    |
| G         | 190      | 6,428   | 6,326   | -1.6         | 196.9   | 32.6 | 32.1         | NE    |
| G         | 191      | 6,060   | 5,774   | -4.7         | 359.5   | 16.9 | 16.1         | NE    |
| G         | 192      | 7,078   | 7,008   | -1.0         | 162.8   | 43.5 | 43.0         | NE    |
| G         | 193      | 134     | 138     | 3.0          | 280.7   | 0.5  | 0.5          | NE    |

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| Subtotal: |     | 94,715        | 92,652         | -2,2 | 5,029.4 | 18.8         | 18,4 |          |
|-----------|-----|---------------|----------------|------|---------|--------------|------|----------|
| н         | 209 | 3,080         | 2,899          | -5.9 | 131.5   | 23.4         | 22.0 | SW       |
| н         | 210 | 5,505         | 5,417          | -1.6 | 210.5   | 26.2         | 25.7 | SW       |
| н         | 211 | 2,608         | 2,462          | -5.6 | 134.9   | 19.3         | 18.3 | SW       |
| н         | 212 | 2,474         | 2,380          | -3.8 | 122.3   | 20.2         | 19.5 | SW       |
| н         | 213 | 3,830         | 3,673          | -4.1 | 134.4   | 28.5         | 27.3 | SW       |
| н         | 214 | 3,867         | 3,629          | -6.2 | 157.2   | 24.6         | 23.1 | SW       |
| н         | 215 | 3,542         | 3,390          | -4.3 | 270.1   | 13.1         | 12.6 | SW       |
| Н         | 216 | 1,464         | 1,476          | 0.8  | 432.9   | 3.4          | 3.4  | SW       |
| н         | 217 | 6,37 <b>6</b> | 6,098          | -4.4 | 388.7   | 16.4         | 15,7 | SW       |
| Н         | 218 | 4,053         | 3,983          | -1.7 | 250.8   | 16.2         | 15.9 | SW       |
| н         | 219 | 1,404         | 1,373          | -2.2 | 382.3   | 3.7          | 3.6  | SW       |
| н         | 220 | 1,600         | 1,845          | 15.3 | 719.1   | 2.2          | 2.6  | SW       |
| н         | 221 | 1,167         | 1,135          | -2.7 | 161.9   | 7.2          | 7.0  | SW       |
| Н         | 222 | 1,555         | 1,787          | 14.9 | 505.3   | 3.1          | 3.5  | SW       |
| Subtotal: |     | 42,525        | 4 <b>1,547</b> | -2.3 | 4,001.9 | 10.6         | 10.4 |          |
| I         | 206 | 1,606         | 1,501          | -6.5 | 317.8   | 5.1          | 4.7  | SE/SW/NE |
| 1         | 207 | 6,793         | 6,964          | 2.5  | 352.4   | <b>19</b> .3 | 19.8 | SE/SW    |
| I         | 208 | 1,513         | 1,385          | -8.5 | 221.7   | 6.8          | 6.2  | SE/SW    |
| ł         | 223 | 374           | 361            | -3.5 | 1,372.4 | 0.3          | 0.3  | SE/SW    |
| 1         | 224 | 335           | 321            | -4.2 | 160.4   | 2.1          | 2.0  | SW       |
| I         | 225 | 506           | 536            | 5.9  | 221.7   | 2.3          | 2,4  | SW       |
| I         | 226 | 472           | 452            | -4.2 | 152.5   | 3.1          | 3.0  | SW       |
| ł         | 227 | 1,423         | 1,514          | 6,4  | 141.6   | 10.0         | 10.7 | SW       |
| I         | 228 | 1,447         | 1,400          | -3.2 | 174.2   | 8.3          | 8.0  | SW       |
| I         | 229 | 320           | 370            | 15.6 | 296.3   | 1,1          | 1.2  | SE/SW    |
| ł         | 230 | 434           | 393            | -9.4 | 308.4   | 1.4          | 1.3  | SE       |
| 1         | 231 | 1,293         | 1,280          | -1.0 | 210.0   | 6.2          | 6.1  | SE       |
| I         | 232 | 870           | 993            | 14.1 | 193.7   | 4.5          | 5.1  | SE       |
| 1         | 233 | 3,243         | 3,076          | -5.1 | 147.5   | 22.0         | 20.9 | SE       |
| I         | 234 | 574           | 552            | -3.8 | 200.2   | 2.9          | 2.8  | SE       |

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|-----|-----|-------------|---|---|----------|-------|------|---|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------|----------|------|----------------------------------------|
|     | · · | ·           | L | · | <br>in i | <br>· | ئے خ | · | ليسب          | in the second se |   | ليسم   | <u> </u> | <br> | ······································ |

|           | 235   | 1,182   | 1,101         | -6.9  | 196.4   | 6.0          | 5.6          | SE    |
|-----------|-------|---------|---------------|-------|---------|--------------|--------------|-------|
| I         | 236   | 2,636   | 2,511         | -4.7  | 241.7   | 10.9         | 10.4         | SE    |
| 1         | 237   | 5,349   | 5,141         | -3.9  | 267.4   | 20.0         | 19.2         | SE/NE |
| 1         | 238   | 4,650   | 4,518         | -2.8  | 195.0   | 23.8         | 23.2         | SE/NE |
| 1         | 239   | 1,702   | 1,608         | -5.5  | 121.1   | 14.1         | 13.3         | SE    |
| 1         | 240   | 4,193   | 4,293         | 2.4   | 153.0   | 27.4         | 28.1         | SE/NE |
| 1         | 241   | 1,495   | 1,575         | 5.4   | 101.3   | 14.8         | 15.5         | SE/NE |
| 1         | 242   | 4,312   | 4,093         | -5.1  | 132.7   | 32.5         | 30.8         | NE    |
| 1         | 243   | 4,294   | 4,228         | -1.5  | 167.0   | 25.7         | 25.3         | NE    |
| F         | 244   | 3,671   | 3,456         | -5.9  | 103.8   | 35.4         | 33.3         | NE    |
| ł         | 245   | 4,527   | 4,591         | 1.4   | 199.4   | 22.7         | 23.0         | NE    |
| I         | 246   | 3,310   | 3,194         | -3.5  | 153.2   | 21.6         | 20.8         | NE    |
| I         | 247   | 5,640   | 5,615         | -0.4  | 231.8   | <b>2</b> 4.3 | 24.2         | NE    |
| 1         | 248   | 2,210   | 1,978         | -10.5 | 80.6    | 27.4         | 24.5         | NE    |
| 4         | 249   | 4,144   | 4,038         | -2.6  | 80.3    | 51.6         | 50.3         | NE    |
| 1         | 250   | 914     | 857           | -6.2  | 184.1   | 5.0          | 4.7          | NE    |
| 1         | 251   | 2,275   | 2,210         | -2.9  | 132.2   | 17.2         | 16.7         | NE    |
| 1         | 252   | 7,379   | 7,088         | -3.9  | 233.5   | 31.6         | 30.4         | NE    |
| 1         | 253   | 4,315   | 4,061         | -5.9  | 141.3   | 30.5         | 28.7         | NE    |
| I         | 254   | 4,548   | 4,375         | -3.8  | 191.0   | 23.8         | 22.9         | NE    |
| l         | 255   | 2,898   | 2,851         | -1.6  | 191.8   | 15.1         | 14.9         | SE/NE |
| I         | 256   | 2,971   | <b>3,0</b> 08 | 1.2   | 214.7   | 13.8         | 14.0         | SE/NE |
| I         | 257   | 3,448   | 3,409         | -1.1  | 183.4   | 18.8         | 18 <b>.6</b> | SE    |
| Subtotal: |       | 103,266 | 100,897       | -2.3  | 8,367.5 | 12.3         | 12.1         |       |
| J         | 258   | 1,838   | 1,724         | -6.2  | 144.3   | 12.7         | 11.9         | SE/NE |
| J         | . 259 | 5,511   | 5,391         | -2.2  | 135.2   | 40.8         | 39.9         | SE/NE |
| J         | 260   | 3,502   | 3,482         | -0.6  | 133.9   | 26.2         | 26.0         | NE    |
| J         | 261   | 3,625   | 3,577         | -1.3  | 164.3   | 22.1         | 21.8         | NE    |
| J         | 262   | 5,177   | 5,141         | -0.7  | 137.1   | 37.8         | 37.5         | NE    |
| J         | 263   | 11,011  | 10,912        | -0.9  | 272.8   | 40.4         | 40.0         | NE    |
| J         | 264   | 6,443   | 6,313         | -2.0  | 196.9   | 32.7         | 32.1         | NE    |
| J         | 265   | 5,367   | 5,205         | -3.0  | 136.4   | 39.3         | 38.2         | NE    |
|           |       |         |               |       |         |              |              |       |

| J         | 266 | 7,490   | 7,148   | -4.6             | 222.4   | 33.7 | 32.1 | NE |
|-----------|-----|---------|---------|------------------|---------|------|------|----|
| J         | 267 | 7,834   | 7,511   | -4.1             | 158.9   | 49.3 | 47.3 | NE |
| J         | 268 | 4,644   | 4,447   | -4.2             | 189.5   | 24.5 | 23.5 | NE |
| J         | 269 | 2,294   | 2,334   | 1.7              | 154.2   | 14.9 | 15.1 | NE |
| J         | 270 | 2,275   | 2,203   | -3.2             | 158.4   | 14.4 | 13.9 | NE |
| J         | 271 | 2,455   | 2,642   | 7.6              | 93.2    | 26.3 | 28.3 | NE |
| J         | 272 | 4,446   | 4,345   | -2.3             | 162.8   | 27.3 | 26.7 | NE |
| J         | 273 | 5,525   | 5,733   | 3.8              | 230.5   | 24.0 | 24.9 | NE |
| J         | 274 | 9,620   | 10,189  | 5.9              | 207.6   | 46.3 | 49.1 | NE |
| J         | 275 | 4,651   | 4,801   | 3.2              | 152.5   | 30.5 | 31.5 | NE |
| J         | 276 | 4,250   | 4,220   | -0.7             | 163.8   | 25.9 | 25.8 | NE |
| J         | 277 | 5,358   | 5,106   | -4.7             | 135.7   | 39.5 | 37.6 | NE |
| J         | 278 | 5,262   | 4,908   | -6.7             | 180.4   | 29.2 | 27.2 | NE |
| J         | 279 | 7,901   | 7,564   | -4.3             | 319.5   | 24.7 | 23.7 | NE |
| J         | 280 | 5,219   | 5,157   | -1.2             | 176.7   | 29.5 | 29.2 | NE |
| J         | 281 | 4,377   | 4,321   | -1.3             | 125.3   | 34.9 | 34.5 | NE |
| J         | 282 | 6,016   | 5,915   | -1.7             | 213.5   | 28.2 | 27.7 | NE |
| J         | 283 | 8,746   | 8,262   | <del>-</del> 5.5 | 167.8   | 52.1 | 49.2 | NE |
| J         | 284 | 5,865   | 5,435   | -7.3             | 117.6   | 49.9 | 46.2 | NE |
| J         | 285 | 2,259   | 2,355   | 4.2              | 70.7    | 32.0 | 33.3 | NE |
| J         | 286 | 7,114   | 7,499   | 5.4              | 168.8   | 42.1 | 44.4 | NE |
| J         | 287 | 2,468   | 2,606   | 5.6              | 87.5    | 28.2 | 29.8 | NE |
| J         | 288 | 3,853   | 4,072   | 5.7              | 114.9   | 33.5 | 35.4 | NE |
| J         | 289 | 8,484   | 8,335   | -1.8             | 292.1   | 29.0 | 28.5 | NE |
| J         | 290 | 5,670   | 5,905   | 4.1              | 198.7   | 28.5 | 29.7 | NE |
| Subtotal: |     | 176,550 | 174,758 | -1.0             | 5,583.9 | 31.6 | 31.3 |    |
| к         | 291 | 4,461   | 4,647   | 4.2              | 334.8   | 13.3 | 13.9 | NE |
| К         | 292 | 3,965   | 3,989   | 0.6              | 421.1   | 9.4  | 9.5  | NE |
| к         | 293 | 2,878   | 2,833   | -1.6             | 172.2   | 16.7 | 16.5 | NE |
| к         | 294 | 3,216   | 3,183   | -1.0             | 164.6   | 19.5 | 19.3 | NE |
| к         | 295 | 1,067   | 1,070   | 0.3              | 156.9   | 6.8  | 6.8  | NE |
| К         | 296 | 1,172   | 1,181   | 0.8              | 58.3    | 20.1 | 20.3 | NE |

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| F         | 199      | 5,390   | 5,207   | -3.4  | 164.6   | 32.7 | 31.6 | SE/NE |
|-----------|----------|---------|---------|-------|---------|------|------|-------|
| F         | 200      | 2,176   | 1,971   | -9.4  | 79.6    | 27.3 | 24.8 | NE    |
| F         | 201      | 8,049   | 7,329   | -8.9  | 215.7   | 37.3 | 34.0 | NE    |
| F         | 202      | 6,102   | 5,596   | -8.3  | 188.8   | 32.3 | 29.6 | SE/NE |
| F         | 203      | 3,780   | 3,334   | -11.8 | 130.0   | 29.1 | 25.6 | ŇE    |
| F         | 204      | 3,805   | 3,643   | -4.3  | 101.8   | 37.4 | 35.8 | NE    |
| F         | 205      | 3,460   | 3,600   | 4.0   | 354.1   | 9.8  | 10.2 | SE/NE |
| Subtotal: |          | 106,045 | 103,854 | -2.1  | 3,827.4 | 27.7 | 27.1 |       |
| G         | 143      | 1,470   | 1,445   | -1.7  | 136.9   | 10.7 | 10.6 | SE    |
| G         | 158      | 6,059   | 5,748   | -5.1  | 147.0   | 41.2 | 39.1 | SE    |
| G         | 159      | 1,765   | 1,701   | -3.6  | 171.5   | 10.3 | 9.9  | SE    |
| G         | 160      | 7,973   | 7,841   | -1.7  | 176.4   | 45.2 | 44.5 | SE    |
| G         | 161      | 6,034   | 5,834   | -3.3  | 172.0   | 35.1 | 33.9 | SE    |
| G         | 177      | 8,597   | 8,414   | -2.1  | 176.4   | 48.7 | 47.7 | SE/NE |
| G         | 178      | 6,252   | 5,991   | -4.2  | 167.5   | 37.3 | 35.8 | SE/NE |
| G         | 179      | 6,435   | 6,233   | -3.1  | 167.8   | 38.3 | 37.1 | NE    |
| G         | 180      | 8,419   | 8,388   | -0.4  | 201.1   | 41.9 | 41.7 | NE    |
| G         | 181      | 197     | 203     | 3.0   | 170.7   | 1.2  | 1.2  | NE    |
| G         | 182      | 375     | 376     | 0.3   | 581.7   | 0.6  | 0.6  | NE    |
| G         | 182.99 * | 0       | 0       | 0.0   | N/A     | N/A  | N/A  | NE    |
| G         | 183      | 4,225   | 4,136   | -2.1  | 520.6   | 8.1  | 7.9  | NE    |
| G         | 184      | 2,306   | 2,325   | 0.8   | 282.4   | 8.2  | 8.2  | NE    |
| G         | 185      | 134     | 129     | -3.7  | 163.6   | 0.8  | 0.8  | NE    |
| G         | 186      | 4,821   | 4,711   | -2.3  | 176.2   | 27.4 | 26.7 | NE    |
| G         | 187      | 1,773   | 1,804   | 1.7   | 198.9   | 8.9  | 9.1  | NE    |
| G         | 188      | 7,167   | 7,113   | -0.8  | 166.3   | 43.1 | 42.8 | NE    |
| G         | 189      | 1,013   | 1,014   | 0.1   | 252.5   | 4.0  | 4.0  | NE    |
| G         | 190      | 6,428   | 6,326   | -1.6  | 196.9   | 32.6 | 32.1 | NE    |
| G         | 191      | 6,060   | 5,774   | -4.7  | 359.5   | 16.9 | 16.1 | NE    |
| G         | 192      | 7,078   | 7,008   | -1.0  | 162.8   | 43.5 | 43.0 | NE    |
| G         | 193      | 134     | 138     | 3.0   | 280.7   | 0.5  | 0.5  | NE    |

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| Subtotal: |     | 94,715 | 92,652 | -2.2 | 5,029.4 | 18.8 | 18.4 |          |
|-----------|-----|--------|--------|------|---------|------|------|----------|
| н         | 209 | 3,080  | 2,899  | -5.9 | 131.5   | 23.4 | 22.0 | sw       |
| Н         | 210 | 5,505  | 5,417  | -1.6 | 210.5   | 26.2 | 25.7 | SW       |
| н         | 211 | 2,608  | 2,462  | -5.6 | 134.9   | 19.3 | 18.3 | sw       |
| н         | 212 | 2,474  | 2,380  | -3.8 | 122.3   | 20.2 | 19.5 | SW       |
| н         | 213 | 3,830  | 3,673  | -4.1 | 134,4   | 28.5 | 27.3 | SW       |
| Н         | 214 | 3,867  | 3,629  | -6.2 | 157.2   | 24.6 | 23.1 | SW       |
| н         | 215 | 3,542  | 3,390  | -4.3 | 270.1   | 13.1 | 12.6 | SW       |
| Н         | 216 | 1,464  | 1,476  | 0.8  | 432.9   | 3.4  | 3.4  | SW       |
| н         | 217 | 6,376  | 6,098  | -4.4 | 388.7   | 16.4 | 15.7 | SW       |
| н         | 218 | 4.053  | 3.983  | -1.7 | 250,8   | 16.2 | 15.9 | SW       |
| н         | 219 | 1,404  | 1,373  | -2.2 | 382.3   | 3.7  | 3.6  | SW       |
| н         | 220 | 1,600  | 1,845  | 15.3 | 719.1   | 2.2  | 2.6  | SW       |
| н         | 221 | 1,167  | 1,135  | -2.7 | 161.9   | 7.2  | 7.0  | SW       |
| Н         | 222 | 1,555  | 1,787  | 14.9 | 505.3   | 3.1  | 3.5  | SW       |
| Subtotal: |     | 42,525 | 41,547 | -2.3 | 4,001.9 | 10.6 | 10.4 |          |
| I         | 206 | 1,606  | 1,501  | -6.5 | 317.8   | 5.1  | 4.7  | SE/SW/NE |
| 1         | 207 | 6,793  | 6,964  | 2.5  | 352.4   | 19.3 | 19.8 | SE/SW    |
| l         | 208 | 1,513  | 1,385  | -8.5 | 221.7   | 6.8  | 6.2  | SE/SW    |
| 1         | 223 | 374    | 361    | -3.5 | 1,372.4 | 0.3  | 0.3  | SE/SW    |
| 1         | 224 | 335    | 321    | -4.2 | 160.4   | 2.1  | 2.0  | ŚW       |
| 1         | 225 | 506    | 536    | 5.9  | 221.7   | 2.3  | 2.4  | SW       |
| 1         | 226 | 472    | 452    | -4.2 | 152.5   | 3.1  | 3.0  | SW       |
| t         | 227 | 1,423  | 1,514  | 6.4  | 141.6   | 10.0 | 10.7 | SW       |
| 1         | 228 | 1,447  | 1,400  | -3.2 | 174.2   | 8.3  | 8.0  | SW       |
| 1         | 229 | 320    | 370    | 15.6 | 296.3   | 1.1  | 1.2  | SE/SW    |
| 1         | 230 | 434    | 393    | -9.4 | 308.4   | 1.4  | 1.3  | SE       |
| t         | 231 | 1,293  | 1,280  | -1.0 | 210.0   | 6.2  | 6.1  | SE       |
| I         | 232 | 870    | 993    | 14.1 | 193.7   | 4.5  | 5.1  | SE       |
| 1         | 233 | 3,243  | 3,076  | -5.1 | 147.5   | 22.0 | 20.9 | SE       |
| t         | 234 | 574    | 552    | -3.8 | 200.2   | 2.9  | 2.8  | SE       |

| I         | 235 | 1,182         | 1,101   | -6.9  | 196.4          | 6.0          | 5.6           | SE    |
|-----------|-----|---------------|---------|-------|----------------|--------------|---------------|-------|
| I.        | 236 | 2,636         | 2,511   | -4.7  | 241.7          | 10. <b>9</b> | 10.4          | SE    |
| 1         | 237 | 5,34 <b>9</b> | 5,141   | -3.9  | 267.4          | 20.0         | 1 <b>9</b> .2 | SE/NE |
| I         | 238 | 4,650         | 4,518   | -2.8  | 195.0          | 23.8         | 23.2          | SE/NE |
| 1         | 239 | 1,702         | 1,608   | -5.5  | 121.1          | 14.1         | 13.3          | SE    |
| I         | 240 | 4,193         | 4,293   | 2.4   | 153.0          | 27.4         | 28.1          | SE/NE |
| I         | 241 | 1,495         | 1,575   | 5.4   | 101.3          | 14.8         | 15.5          | SE/NE |
| I         | 242 | 4,312         | 4,093   | -5.1  | 132.7          | 32.5         | 30.8          | NE    |
| 1         | 243 | 4,294         | 4,228   | -1.5  | 167.0          | 25.7         | 25.3          | NE    |
| 1         | 244 | 3,671         | 3,456   | -5.9  | 103.8          | 35.4         | 33.3          | NE    |
| I.        | 245 | 4,527         | 4,591   | 1.4   | 199.4          | 22.7         | 23.0          | NE    |
| 1         | 246 | 3,310         | 3,194   | -3.5  | 153.2          | 21.6         | 20.8          | NE    |
| L         | 247 | 5,640         | 5,615   | -0.4  | 231.8          | 24.3         | 24.2          | NE    |
| t         | 248 | 2,210         | 1,978   | -10.5 | 80.6           | 27.4         | 24.5          | NE    |
| 1         | 249 | 4,144         | 4,038   | -2.6  | 80.3           | 51.6         | 50.3          | NE    |
| I.        | 250 | 914           | 857     | -6.2  | 184.1          | 5.0          | 4.7           | NE    |
| t         | 251 | 2,275         | 2,210   | -2.9  | 132.2          | 17.2         | 16.7          | NE    |
| I         | 252 | 7,379         | 7,088   | -3.9  | 233.5          | 31.6         | 30.4          | NE    |
| I         | 253 | 4,315         | 4,061   | -5.9  | 141.3          | 30.5         | 28.7          | NE    |
| 1         | 254 | 4,548         | 4,375   | -3.8  | 191.0          | 23.8         | 22.9          | NE    |
| l         | 255 | 2,898         | 2,851   | -1.6  | 1 <b>9</b> 1.8 | 15.1         | 14.9          | SE/NE |
| I         | 256 | 2,971         | 3,008   | 1.2   | 214.7          | 13.8         | 14.0          | SE/NE |
| I         | 257 | 3,448         | 3,409   | -1.1  | 183.4          | 18.8         | 18.6          | SE    |
| Subtotal: |     | 103,266       | 100,897 | -2.3  | 8,367.5        | 12.3         | 12.1          |       |
| L         | 258 | 1,838         | 1,724   | -6.2  | 144.3          | 12.7         | 11.9          | SE/NE |
| J         | 259 | 5,511         | 5,391   | -2.2  | 135.2          | 40.8         | <b>39</b> .9  | SE/NE |
| J         | 260 | 3,502         | 3,482   | -0.6  | 133. <b>9</b>  | 26.2         | 26.0          | NE    |
| J         | 261 | 3,625         | 3,577   | -1.3  | 164.3          | 22.1         | 21.8          | NE    |
| J         | 262 | 5,177         | 5,141   | -0.7  | 137.1          | 37.8         | 37.5          | NE    |
| J         | 263 | 11,011        | 10,912  | -0.9  | 272.8          | 40.4         | 40.0          | NE    |
| J         | 264 | 6,443         | 6,313   | -2.0  | 1 <b>96</b> .9 | 32.7         | 32.1          | NE    |
| J         | 265 | 5,367         | 5,205   | -3.0  | 136.4          | 39.3         | 38.2          | NE    |

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| J         | 266 | 7,490   | 7,148   | -4.6 | 222.4   | 33.7 | 32.1 | NE |
|-----------|-----|---------|---------|------|---------|------|------|----|
| J         | 267 | 7,834   | 7,511   | -4.1 | 158.9   | 49.3 | 47.3 | NE |
| J         | 268 | 4,644   | 4,447   | -4.2 | 189.5   | 24.5 | 23.5 | NE |
| J         | 269 | 2,294   | 2,334   | 1.7  | 154.2   | 14.9 | 15.1 | NE |
| J         | 270 | 2,275   | 2,203   | -3.2 | 158.4   | 14.4 | 13.9 | NE |
| J         | 271 | 2,455   | 2,642   | 7.6  | 93.2    | 26.3 | 28.3 | NE |
| J         | 272 | 4,446   | 4,345   | -2.3 | 162.8   | 27.3 | 26.7 | NE |
| J         | 273 | 5,525   | 5,733   | 3.8  | 230.5   | 24.0 | 24.9 | NE |
| J         | 274 | 9,620   | 10,189  | 5.9  | 207.6   | 46.3 | 49.1 | NE |
| J         | 275 | 4,651   | 4,801   | 3.2  | 152.5   | 30.5 | 31.5 | NE |
| J         | 276 | 4,250   | 4,220   | -0.7 | 163.8   | 25.9 | 25.8 | NE |
| J         | 277 | 5,358   | 5,106   | -4.7 | 135.7   | 39.5 | 37.6 | NE |
| J         | 278 | 5,262   | 4,908   | -6.7 | 180.4   | 29.2 | 27.2 | NE |
| J         | 279 | 7,901   | 7,564   | -4.3 | 319.5   | 24.7 | 23.7 | NE |
| J         | 280 | 5,219   | 5,157   | -1.2 | 176.7   | 29.5 | 29.2 | NE |
| J         | 281 | 4,377   | 4,321   | -1.3 | 125.3   | 34.9 | 34.5 | NE |
| J         | 282 | 6,016   | 5,915   | -1.7 | 213.5   | 28.2 | 27.7 | NE |
| J         | 283 | 8,746   | 8,262   | -5.5 | 167.8   | 52.1 | 49.2 | NE |
| J         | 284 | 5,865   | 5,435   | -7.3 | 117.6   | 49.9 | 46.2 | NE |
| J         | 285 | 2,259   | 2,355   | 4.2  | 70.7    | 32.0 | 33.3 | NE |
| J         | 286 | 7,114   | 7,499   | 5.4  | 168.8   | 42.1 | 44.4 | NE |
| J         | 287 | 2,468   | 2,606   | 5.6  | 87.5    | 28.2 | 29.8 | NE |
| J         | 288 | 3,853   | 4,072   | 5.7  | 114.9   | 33.5 | 35.4 | NE |
| J         | 289 | 8,484   | 8,335   | -1.8 | 292.1   | 29.0 | 28.5 | NE |
| J         | 290 | 5,670   | 5,905   | 4.1  | 198.7   | 28.5 | 29.7 | NE |
| Subtotal: |     | 176,550 | 174,758 | -1.0 | 5,583.9 | 31.6 | 31.3 |    |
| к         | 291 | 4,461   | 4,647   | 4.2  | 334.8   | 13.3 | 13.9 | NE |
| к         | 292 | 3,965   | 3,989   | 0.6  | 421.1   | 9.4  | 9.5  | NE |
| к         | 293 | 2,878   | 2,833   | -1.6 | 172.2   | 16.7 | 16.5 | NE |
| к         | 294 | 3,216   | 3,183   | -1.0 | 164.6   | 19.5 | 19.3 | NE |
| к         | 295 | 1,067   | 1,070   | 0.3  | 156.9   | 6.8  | 6.8  | NE |
| к         | 296 | 1,172   | 1,181   | 0.8  | 58.3    | 20.1 | 20.3 | NE |

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| К | 297 | 454   | 461   | 1.5   | 176.2   | 2.6  | 2.6  | NE |
|---|-----|-------|-------|-------|---------|------|------|----|
| к | 298 | 4,216 | 4,052 | -3.9  | 160.4   | 26.3 | 25.3 | NE |
| к | 299 | 4,332 | 4,202 | -3.0  | 147.8   | 29.3 | 28.4 | NE |
| К | 300 | 6,867 | 6,919 | 0.8   | 225.4   | 30.5 | 30.7 | NE |
| к | 301 | 5,603 | 5,696 | 1.7   | 180.4   | 31.1 | 31.6 | NE |
| к | 302 | 6,514 | 6,552 | 0.6   | 220.9   | 29.5 | 29.7 | NE |
| К | 303 | 6,947 | 6,617 | -4.8  | 208.3   | 33.4 | 31.8 | NE |
| К | 304 | 631   | 715   | 13.3  | 307.4   | 2.1  | 2.3  | NE |
| к | 305 | 9,557 | 9,324 | -2.4  | 264.2   | 36.2 | 35.3 | NE |
| к | 306 | 6,518 | 6,668 | 2.3   | 247.1   | 26.4 | 27.0 | NE |
| К | 307 | 2,929 | 2,938 | 0.3   | 158.6   | 18.5 | 18.5 | NE |
| к | 308 | 4,403 | 4,465 | 1.4   | 195.2   | 22.6 | 22.9 | NE |
| к | 309 | 3,278 | 3,320 | 1.3   | 158.9   | 20.6 | 20.9 | NE |
| К | 310 | 5,636 | 5,638 | 0.0   | 266.4   | 21.2 | 21.2 | NE |
| К | 311 | 7,940 | 7,839 | -1.3  | 185.1   | 42.9 | 42.4 | NE |
| к | 312 | 3,857 | 3,841 | -0.4  | 102.3   | 37.7 | 37.5 | NE |
| к | 313 | 5,396 | 5,320 | -1.4  | 178.2   | 30.3 | 29.9 | NE |
| к | 314 | 9,575 | 9,396 | -1.9  | 280.5   | 34.1 | 33.5 | NE |
| к | 315 | 9,379 | 9,175 | -2.2  | 293.3   | 32.0 | 31.3 | NE |
| К | 316 | 5,530 | 5,338 | -3.5  | 180.9   | 30.6 | 29.5 | NE |
| к | 317 | 5,581 | 5,327 | -4.6  | 217.0   | 25.7 | 24.5 | NE |
| К | 318 | 3,456 | 3,427 | -0.8  | 117.9   | 29.3 | 29.1 | NE |
| К | 319 | 4,810 | 4,758 | -1.1  | 188.8   | 25.5 | 25.2 | NE |
| к | 320 | 6,449 | 6,209 | -3.7  | 171.0   | 37.7 | 36.3 | NE |
| к | 321 | 3,906 | 3,862 | -1.1  | 136.4   | 28.6 | 28.3 | NE |
| К | 322 | 179   | 159   | -11.2 | 138.4 · | 1.3  | 1.1  | NE |
| К | 323 | 3,596 | 3,499 | -2.7  | 150.2   | 23.9 | 23.3 | NE |
| К | 324 | 15    | 16    | 6.7   | 168.3   | 0.1  | 0.1  | NE |
| К | 325 | 5,747 | 5,673 | -1.3  | 207.8   | 27.7 | 27.3 | NE |
| К | 326 | 6,733 | 6,571 | -2.4  | 199.9   | 33.7 | 32.9 | NE |
| К | 327 | 307   | 268   | -12.7 | 340.8   | 0.9  | 0.8  | NE |
| к | 329 | 4,216 | 4,178 | -0.9  | 233.0   | 18.1 | 17.9 | NE |
| к | 330 | 7,408 | 7,137 | -3.7  | 184.1   | 40.2 | 38.8 | NE |
| к | 331 | 9,099 | 9,077 | -0.2  | 294.3   | 30.9 | 30.8 | NE |

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| К<br>К    | 332         | 2,594          | 2.505   | .2.4        | 207 1                 | 10 5              | 10.1 |     |
|-----------|-------------|----------------|---------|-------------|-----------------------|-------------------|------|-----|
| к         | 200         |                | -,000   | -0.4        | 207.1                 | 12.5              | 12.1 | NE  |
| 13        | 333         | 4,025          | 4,024   | 0.0         | 257.2                 | 15.6              | 15.6 | NE  |
| к         | 334         | 4,456          | 4,291   | -3.7        | 291.1                 | 15.3              | 14.7 | NE  |
| К         | 335         | 3,400          | 3,394   | -0.2        | 226.6                 | 15.0              | 15.0 | NE  |
| к         | 336         | 6,148          | 5,903   | -4.0        | 279.5                 | 22.0              | 21.1 | NE  |
| к         | 337         | 9,025          | 8,808   | -2,4        | 504.3                 | 17.9              | 17.5 | NE  |
| к         | 338         | 5,461          | 5,426   | -0.6        | 344.5                 | 15.9              | 15.8 | ·NE |
| к         | 339         | 2,862          | 2,837   | -0.9        | 281.7                 | 10.2              | 10.1 | NE  |
| к         | 340         | 2,518          | 2,388   | -5.2        | 187.1                 | 13.5              | 12.8 | NE  |
| к         | 341         | 5,567          | 5,522   | -0.8        | 333.8                 | 16.7              | 16.5 | NE  |
| к         | 342         | 3,369          | 3,529   | 4.7         | 245.1                 | 13.7              | 14.4 | NE  |
| к         | 367 \$      | 3              | 3       | <b>0</b> .0 | - <del>N/A-</del> 1.2 | N/A               | N/A  | NE  |
| Subtotal: |             | 237,251        | 234,170 | -1.3        | 11,351.3              | 20.9              | 20.6 |     |
| L         | 328         | 5,371          | 5,026   | -6.4        | 662.2                 | 8.1               | 7.6  | NE  |
| L         | 343         | 168            | 168     | 0.0         | 1,336.3               | 0.1               | 0.1  | NE  |
| L         | 344         | 7,792          | 7,378   | -5.3        | 852.0                 | 9.1               | 8.7  | NE  |
| L         | 345         | 7,947          | 9,333   | 17.4        | 355.6                 | 22.3              | 26.2 | NE  |
| L         | 346         | 1,397          | 1,380   | -1.2        | 453.7                 | 3.1               | 3.0  | NE  |
| L         | 347         | 10,5 <b>57</b> | 9,980   | -5.5        | 530.8                 | 19.9              | 18.8 | NE  |
| L         | 348         | 14,902         | 14,541  | -2.4        | 967.7                 | 15.4              | 15.0 | NE  |
| L         | 349         | 7,002          | 6,781   | -3.2        | 483.3                 | 14.5              | 14.0 | NE  |
| L         | 351         | 3,808          | 4,515   | 18.6        | 243.6                 | 15.6              | 18.5 | NE  |
| L         | 352         | 4,580          | 4,481   | -2.2        | 461.8                 | 9.9               | 9.7  | NE  |
| L         | 353         | 10,742         | 10,412  | -3.1        | 757.1                 | 14.2              | 13.8 | NE  |
| L         | 354         | 31             | 31      | 0.0         | 1,889.9               | <b>0</b> .0       | 0.0  | NE  |
| L         | 355         | 6,953          | 6,402   | -7.9        | 576.0                 | 12.1              | 11.1 | NE  |
| L         | 356         | 8,376          | 8,874   | 5.9         | 850.0                 | 9.9               | 10.4 | NE  |
| L         | 357         | 8,670          | 8,740   | 0.8         | 530.3                 | 1 <del>6</del> .3 | 16.5 | NE  |
| L         | 358         | 6,113          | 5,664   | -7.3        | 434.7                 | 14.1              | 13.0 | NE  |
| L         | 35 <b>9</b> | 5,454          | 6,241   | 14.4        | 558.5                 | 9.8               | 11.2 | NE  |
| L         | 360         | 3,061          | 3,219   | 5.2         | 575.3                 | 5.3               | 5.6  | NE  |
| L         | 361         | 4,046          | 3,742   | -7.5        | 300.0                 | 13.5              | 12.5 | NE  |

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| L         | 362 | 17,971    | 17,385    | -3.3 | 904.6    | 19.9 | 19.2 | NE |
|-----------|-----|-----------|-----------|------|----------|------|------|----|
| L         | 363 | 15,723    | 14,767    | -6.1 | 1,336.8  | 11.8 | 11.0 | NE |
| L         | 364 | 547       | 522       | -4.6 | 1,072.7  | 0,5  | 0.5  | NE |
| L         | 365 | 9,336     | 10,576    | 13.3 | 888.3    | 10.5 | 11.9 | NE |
| Subtotal: |     | 160,547   | 160,158   | -0.2 | 17,021.2 | 9.4  | 9.4  |    |
| Total:    |     | 1,585,577 | 1,551,188 | -2.2 | 86,482.3 | 18.3 | 17.9 |    |

\* Population living on boats, adjacent to tract

\$ One house, minimal acerage

Projections obtained from National Planning Data Corporation (1991)

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# City of Philadelphia 1980-1990 Census Data Comparison

cenpi80.xls

# Population

| Planning |            | 1980       | 1990       | Percent | Tract         | 1980              | 1990     | WWTP    |
|----------|------------|------------|------------|---------|---------------|-------------------|----------|---------|
| Analysis | Tract      | Total      | Total      | Change  | Area          | People            | People   | Service |
| Section  | <u>No.</u> | Population | Population | 80 - 90 | Acres         | per Acre          | per acre | Area    |
| Е        | 164 (5%)   | 307        | 279        | -9.1    | 5.9           | 51. <del>9</del>  | 47.1     | NE      |
| F        | 171 (5%)   | 304        | 264        | -13,2   | 14.1          | 21.5              | 18.7     | NE      |
| F        | 173        | 3.993      | 3.815      | -4,5    | 217.0         | 18.4              | 17.6     | NE      |
| F        | 174        | 3,780      | 3,406      | -9.9    | 86.0          | 44.0              | 39.6     | NE      |
| F        | 175 (45%)  | 4,348      | 4,055      | -6.7    | 79.5          | 54.7              | 51.0     | NE      |
| F        | 194        | 281        | 361        | 28.5    | 332.6         | 0.8               | 1.1      | NE      |
| F        | 195 (60%)  | 5,039      | 5,224      | 3.7     | 116.2         | 43.4              | 45.0     | NE      |
| F        | 196        | 2,390      | 2,639      | 10.4    | 185.3         | 12.9              | 14.2     | NE      |
| F        | 197        | 7,213      | 7,736      | 7.3     | 210.8         | 34.2              | 36.7     | NE      |
| F        | 198        | 7,486      | 6,966      | -6.9    | 133.4         | 5 <del>6</del> .1 | 52.2     | NE      |
| F        | 199        | 5,827      | 5,390      | -7.5    | 164. <b>6</b> | 35.4              | 32.7     | NE      |
| F        | 200        | 2,536      | 2,176      | -14.2   | 79.6          | 31.9              | 27.3     | NE      |
| F        | 201        | 9,799      | 8,049      | -17.9   | 215.7         | 45.4              | 37.3     | NE      |
| F        | 202( 70%)  | 5,151      | 4,271      | -17.1   | 132.2         | 39.0              | 32.3     | NE      |
| F        | 203        | 4,752      | 3,780      | -20.5   | 130.0         | 36. <b>6</b>      | 29.1     | NE      |
| F        | 204        | 4,217      | 3,805      | -9,8    | 101.8         | 41.4              | 37.4     | NE      |
| F        | 205 (85%)  | 2,790      | 2,941      | 5.4     | 301.0         | 9.3               | 9.8      | NE      |
| G        | 177 (20%)  | 1,824      | 1,719      | -5.8    | 35.3          | 51.7              | 48.7     | NE      |
| G        | 178 (75%)  | 5,161      | 4,689      | -9.1    | 125.6         | 41.1              | 37.3     | NE      |
| G        | 179        | 6,895      | 6,435      | -6.7    | 167. <b>8</b> | 41.1              | 38.3     | NE      |
| G        | 180        | 8,699      | 8,419      | -3.2    | 201.1         | 43.3              | 41.9     | NE      |
| G        | 181        | 191        | 197        | 3.1     | 170.7         | 1.1               | 1.2      | NE      |
| G        | 182        | 382        | 375        | -1.8    | 581.7         | 0.7               | 0.6      | NE      |
| G        | 182.99*    | 43         | 0          | -100.0  | N/A           | N/A               | N/A      | NE      |

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| G   | 183               | 4,501 | 4,225 | -6.1  | 520,6 | 8.6  | 8.1  | NE |
|-----|-------------------|-------|-------|-------|-------|------|------|----|
| G   | 184               | 2,328 | 2,306 | -0.9  | 282.4 | 8.2  | 8.2  | NE |
| G   | 185               | 147   | 134   | -8.8  | 163.6 | 0.9  | 0.8  | NE |
| G   | 186               | 5,163 | 4,821 | -6.6  | 176.2 | 29.3 | 27.4 | NE |
| G   | 187               | 1,834 | 1,773 | -3.3  | 198.9 | 9.2  | 8.9  | NE |
| G   | 188               | 7,432 | 7,167 | -3.6  | 166.3 | 44.7 | 43.1 | NE |
| G   | 189               | 1,077 | 1,013 | -5.9  | 252.5 | 4.3  | 4.0  | NE |
| G   | 190               | 6,761 | 6,428 | -4.9  | 196.9 | 34.3 | 32.6 | NE |
| G   | 191               | 6,748 | 6,060 | -10.2 | 359.5 | 18.8 | 16.9 | NE |
| G   | 192               | 7,364 | 7,078 | -3.9  | 162.8 | 45.2 | 43.5 | NE |
| G   | 193               | 131   | 134   | 2.3   | 280.7 | 0.5  | 0.5  | NE |
| 1   | 206 (10%)         | 184   | 161   | -12.5 | 31.8  | 5.8  | 5.1  | NE |
| 1   | 237 (40%)         | 2,206 | 2,140 | -3.0  | 107.0 | 20.6 | 20.0 | NE |
| 1   | 238 (25%)         | 1,235 | 1,163 | -5.8  | 48.8  | 25.3 | 23.8 | NE |
| 1   | 240 <b>(30%)</b>  | 1,223 | 1,258 | 2.9   | 45.9  | 26.6 | 27.4 | NE |
| 1   | 241 (75%)         | 1,097 | 1,121 | 2.2   | 76.0  | 14.4 | 14.8 | NE |
| I   | 242               | 4,807 | 4,312 | -10.3 | 132.7 | 36.2 | 32.5 | NE |
| I   | 243               | 4,511 | 4,294 | -4.8  | 167.0 | 27.0 | 25.7 | NE |
| I   | 244               | 4,200 | 3,671 | -12.6 | 103.8 | 40.5 | 35.4 | NE |
| 1   | 245               | 4,598 | 4,527 | -1.5  | 199.4 | 23.1 | 22.7 | NE |
| I   | 246               | 3,633 | 3,310 | -8.9  | 153.2 | 23.7 | 21.6 | NE |
| 1   | 247               | 5,823 | 5,640 | -3.1  | 231.8 | 25.1 | 24.3 | NE |
| I   | 248               | 2,719 | 2,210 | -18.7 | 80.6  | 33.7 | 27.4 | NE |
| 1   | 249               | 4,446 | 4,144 | 0.0   | 80.3  | 55.4 | 51.6 | NE |
| 1   | 250               | 909   | 914   | 0.6   | 184.1 | 4.9  | 5.0  | NE |
| L   | 251               | 2,448 | 2,275 | -7.1  | 132.2 | 18.5 | 17.2 | NE |
| I   | 252               | 8,268 | 7,379 | -10.8 | 233.5 | 35.4 | 31.6 | NE |
| I - | 253               | 4,911 | 4,315 | -12.1 | 141.3 | 34.8 | 30.5 | NE |
| 1   | 254               | 4,977 | 4,548 | -8.6  | 191.0 | 26.1 | 23.8 | NE |
| I.  | 255 (95%)         | 2,914 | 2,753 | -5.5  | 182.2 | 16.0 | 15.1 | NE |
| 1   | 256 (20%)         | 614   | 594   | -3.3  | 42.9  | 14.3 | 13.8 | NE |
| J   | 258 <b>(</b> 55%) | 1,158 | 1,011 | -12.7 | 79.4  | 14.6 | 12.7 | NE |
| J   | 259 (65%)         | 3,810 | 3,582 | -6.0  | 87.9  | 43.3 | 40.8 | NE |
| J   | 260               | 3,625 | 3,502 | -3.4  | 133.9 | 27.1 | 26.2 | NE |

| J | 261 | 3,798         | 3,625         | -4.6         | 164.3 | 23.1         | 22.1 | NE |
|---|-----|---------------|---------------|--------------|-------|--------------|------|----|
| J | 262 | 5,371         | 5,177         | -3.6         | 137.1 | 39.2         | 37.8 | NE |
| J | 263 | 11,474        | 11,011        | -4.0         | 272.8 | 42.1         | 40.4 | NE |
| J | 264 | 6,841         | 6,443         | -5.8         | 196.9 | 34.7         | 32.7 | NE |
| J | 265 | 5,798         | 5 <b>,367</b> | -7.4         | 136.4 | 42.5         | 39.3 | NE |
| J | 266 | 8,328         | 7,490         | -10.1        | 222.4 | 37.4         | 33.7 | NE |
| J | 267 | 8,650         | 7,834         | 100.0        | 158.9 | 54.4         | 49.3 | NE |
| J | 268 | 4,933         | 4,644         | -5. <b>9</b> | 189.5 | 26.0         | 24.5 | NE |
| J | 269 | 2,023         | 2,294         | 13.4         | 154.2 | 13.1         | 14.9 | NE |
| J | 270 | 2,474         | 2,275         | -8.0         | 158.4 | 15.6         | 14.4 | NE |
| J | 271 | 2,206         | 2,455         | 11.3         | 93.2  | 23.7         | 26.3 | NE |
| J | 272 | 4,739         | 4,446         | -6.2         | 162.8 | 29.1         | 27.3 | NE |
| J | 273 | 5,316         | 5,525         | 3.9          | 230.5 | 23.1         | 24.0 | NE |
| J | 274 | 8,911         | 9,620         | 8.0          | 207.6 | 42.9         | 46.3 | NE |
| J | 275 | 4,516         | 4,651         | 3.0          | 152.5 | 29.6         | 30.5 | NE |
| J | 276 | 4,595         | 4,250         | -7.5         | 163.8 | 28.1         | 25.9 | NE |
| J | 277 | 5,984         | 5,358         | -10.5        | 135.7 | 44.1         | 39.5 | NE |
| J | 278 | 6,005         | 5 <b>,262</b> | -12.4        | 180.4 | 33.3         | 29.2 | NE |
| J | 279 | 8,549         | 7,901         | -7.6         | 319.5 | 26.8         | 24.7 | NE |
| J | 280 | 5,4 <b>63</b> | 5,219         | -4.5         | 176.7 | 30.9         | 29.5 | NE |
| J | 281 | 4,581         | 4,377         | -4.5         | 125.3 | 36.6         | 34.9 | NE |
| J | 282 | 6,034         | 6,016         | -0.3         | 213.5 | 28.3         | 28.2 | NE |
| J | 283 | 9,895         | 8,746         | -11.6        | 167.8 | 5 <b>9.0</b> | 52.1 | NE |
| J | 284 | 6,881         | <b>5,86</b> 5 | -14.8        | 117.6 | 58. <b>5</b> | 49.9 | NE |
| J | 285 | 2,157         | 2,259         | 4.7          | 70.7  | 30.5         | 32.0 | NE |
| J | 286 | 6,630         | 7,114         | 7.3          | 168.8 | 39.3         | 42.1 | NE |
| J | 287 | 2,299         | 2,468         | 7.4          | 87.5  | 26.3         | 28.2 | NE |
| J | 288 | 3,595         | 3,853         | 7,2          | 114.9 | 31.3         | 33.5 | NE |
| J | 289 | 8,963         | 8,484         | -5.3         | 292.1 | 30.7         | 29.0 | NE |
| J | 290 | 5,437         | 5,670         | 4.3          | 198.7 | 27.4         | 28.5 | NE |
| к | 291 | 4,263         | 4,461         | 4.6          | 334.8 | 12.7         | 13.3 | NE |
| к | 292 | 4,015         | <b>3,96</b> 5 | -1.2         | 421.1 | 9.5          | 9.4  | NE |
| к | 293 | 3,039         | 2,878         | -5.3         | 172.2 | 17.6         | 16.7 | NE |
| к | 294 | 3,352         | 3,216         | -4.1         | 164.6 | 20.4         | 19.5 | NE |
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| к | 295   | 1,088  | 1,067 | -1.9  | 156.9 | 6.9          | 6.8  | NE |
|---|-------|--------|-------|-------|-------|--------------|------|----|
| К | 296   | 1,186  | 1,172 | -1.2  | 58.3  | 20.3         | 20.1 | NE |
| К | 297   | 483    | 454   | -6.0  | 176.2 | 2.7          | 2.6  | NE |
| К | 298   | 4,609  | 4,216 | -8.5  | 160.4 | 28.7         | 26.3 | NE |
| К | 299   | 4,698  | 4,332 | -7.8  | 147.8 | 31.8         | 29.3 | NE |
| К | 300   | 6,937  | 6,867 | -1.0  | 225.4 | 30.8         | 30.5 | NE |
| К | 301   | 5,544  | 5,603 | 1.1   | 180.4 | 30.7         | 31.1 | NE |
| К | 302   | 6,616  | 6,514 | -1.5  | 220.9 | 30.0         | 29.5 | NE |
| К | 303   | 7,715  | 6,947 | -10.0 | 208.3 | 37.0         | 33.4 | NE |
| К | 304 🔪 | 508    | 631   | 24.2  | 307.4 | 1.7          | 2.1  | NE |
| К | 305   | 10,220 | 9,557 | -6.5  | 264.2 | 38.7         | 36.2 | NE |
| К | 306   | 6,526  | 6,518 | -0.1  | 247.1 | 26.4         | 26.4 | NE |
| К | 307   | 2,943  | 2,929 | -0.5  | 158.6 | 18.6         | 18.5 | NE |
| К | 308   | 4,410  | 4,403 | -0.2  | 195.2 | 22.6         | 22.6 | NE |
| К | 309   | 3,286  | 3,278 | -0.2  | 158.9 | 20.7         | 20.6 | NE |
| К | 310   | 5,774  | 5,636 | -2.4  | 266.4 | 21.7         | 21.2 | NE |
| К | 311   | 8,316  | 7,940 | -4.5  | 185.1 | 44.9         | 42.9 | NE |
| К | 312   | 3,982  | 3,857 | -3.1  | 102.3 | 38.9         | 37.7 | NE |
| К | 313   | 5,681  | 5,396 | -5.0  | 178.2 | 31.9         | 30.3 | NE |
| К | 314   | 10,137 | 9,575 | -5.5  | 280.5 | 36.1         | 34.1 | NE |
| К | 315   | 9,986  | 9,379 | -6.1  | 293.3 | 34.0         | 32.0 | NE |
| К | 316   | 6,023  | 5,530 | -8.2  | 180.9 | 33.3         | 30.6 | NE |
| К | 317   | 6,196  | 5,581 | -9.9  | 217.0 | 28.6         | 25.7 | NE |
| К | 318   | 3,591  | 3,456 | -3.8  | 117.9 | 30.5         | 29.3 | NE |
| К | 319   | 5,023  | 4,810 | -4.2  | 188.8 | 26.6         | 25.5 | NE |
| К | 320   | 7,056  | 6,449 | -8.6  | 171.0 | 41.3         | 37.7 | NE |
| К | 321   | 4,081  | 3,906 | -4.3  | 136.4 | 29. <b>9</b> | 28.6 | NE |
| К | 322   | 225    | 179   | -20.4 | 138.4 | 1.6          | 1.3  | NE |
| К | 323   | 3,860  | 3,596 | -6.8  | 150.2 | 25.7         | 23.9 | NE |
| К | 324   | 14     | 15    | 7.1   | 168.3 | 0.1          | 0.1  | NE |
| к | 325   | 6,011  | 5,747 | -4.4  | 207.8 | 28.9         | 27.7 | NE |
| К | 326   | 7,195  | 6,733 | -6.4  | 199.9 | 36.0         | 33.7 | NE |
| к | 327   | 284    | 307   | 8.1   | 340.8 | 0.8          | 0.9  | NE |
| К | 329   | 4,385  | 4,216 | -3.9  | 233.0 | 18.8         | 18.1 | NE |

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| К | 330 | 8,122  | 7,408         | -8.8          | 184.1         | 44.1         | 40.2             | NE |
|---|-----|--------|---------------|---------------|---------------|--------------|------------------|----|
| К | 331 | 9,370  | 9,099         | -2.9          | 294.3         | 31.8         | 30. <b>9</b>     | NE |
| К | 332 | 2,824  | 2,594         | -8.1          | 207.1         | 13.6         | 12.5             | NE |
| К | 333 | 3,842  | 4,025         | 4.8           | 257.2         | 14.9         | 15. <del>6</del> | NE |
| К | 334 | 4,812  | 4,456         | -7.4          | 291.1         | 16.5         | 15.3             | NE |
| к | 335 | 3,481  | 3,400         | -2.3          | 226.6         | 15.4         | 15.0             | NE |
| К | 336 | 6,751  | 6,148         | -8.9          | 279.5         | 24.2         | 22.0             | NE |
| К | 337 | 9,671  | 9,025         | -6.7          | 504.3         | 19.2         | 17.9             | NE |
| К | 338 | 5,655  | 5,461         | -3.4          | 344.5         | 16.4         | 15 <b>.9</b>     | NE |
| К | 339 | 3,044  | 2,862         | -6.0          | 281.7         | 10.8         | 10.2             | NE |
| К | 340 | 2,820  | 2,518         | -10.7         | 187.1         | 15.1         | 13.5             | NE |
| К | 341 | 5,775  | 5,5 <b>67</b> | -3.6          | 333.8         | 17.3         | 16.7             | NE |
| К | 342 | 3,134  | 3,369         | 7.5           | 245.1         | 12.8         | 13.7             | NE |
| К | 367 | 0      | 3             | 100.0         | 1.2           | N/A          | . N/A            | NE |
| L | 328 | 2,671  | 5,371         | 101.1         | 662.2         | 4.0          | 8.1              | NE |
| L | 343 | 171    | 168           | -1.8          | 1,336.3       | 0.1          | 0.1              | NE |
| L | 344 | 8,641  | 7,792         | -9.8          | 852.0         | 10.1         | 9.1 <sup>°</sup> | NE |
| L | 345 | 5,852  | 7,947         | 35.8          | 355. <b>6</b> | 16.5         | 22.3             | NE |
| L | 346 | 1,456  | 1,397         | -4.1          | 453.7         | 3.2          | 3.1              | NE |
| L | 347 | 11,864 | 10,557        | -11.0         | 530.8         | 22.4         | 19.9             | NE |
| L | 348 | 15,947 | 14,902        | -6. <b>6</b>  | 967.7         | 16.5         | 15.4             | NE |
| L | 349 | 7,583  | 7,002         | -7.7          | 483.3         | 15.7         | 14.5             | NE |
| L | 351 | 2,650  | 3,808         | 43.7          | 243.6         | 10. <b>9</b> | 15 <b>.6</b>     | NE |
| L | 352 | 4,896  | 4,580         | -6.5          | 461.8         | 10.6         | 9.9              | NE |
| L | 353 | 11,617 | 10,742        | -7.5          | 757.1         | 15.3         | 14.2             | NE |
| L | 354 | 5      | 31            | 520.0         | 1,889.9       | 0.0          | 0.0              | NE |
| L | 355 | 8,243  | <b>6,9</b> 53 | -15 <b>.6</b> | 5 <b>76.0</b> | 14.3         | 12.1             | NE |
| L | 356 | 7,691  | 8,376         | 8.9           | 850.0         | 9.0          | 9.9              | NE |
| L | 357 | 8,763  | 8, <b>670</b> | -1.1          | 530.3         | 16.5         | 16.3             | NE |
| L | 358 | 7,172  | 6,113         | -14.8         | 434.7         | 16.5         | 14.1             | NE |
| L | 359 | 4,298  | 5,454         | 26.9          | 558.5         | 7.7          | 9.8              | NE |
| L | 360 | 2,787  | 3,061         | 9.8           | 575.3         | 4.8          | 5.3              | NE |
| L | 361 | 4,764  | 4,046         | -15.1         | 30 <b>0.0</b> | 15. <b>9</b> | 13.5             | NE |
| L | 362 | 19,565 | 17,971        | -8.1          | 904.6         | 21.6         | 19. <del>9</del> | NE |

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|                  |                 |                |                    |                |               |                |            |    |        |
| L                | 363             | 17,998         | 15,723             | -12.6          | 1,336.8       | 13.5           | 11.8       | NE |        |
| L                | 364             | 1,261          | 547                | - <b>5</b> 6.6 | 1,072.7       | 1.2            | 0.5        | NE |        |
| L                | 365             | 7,476          | 9,336              | 24.9           | 888.3         | 8.4            | 10.5       | NE |        |
| Subtotal:        |                 | 795,586        | 760,451            | -4.4           | 42,959.3      | 18.5           | 17.7       |    |        |
| А                | 1               | 656            | 2,073              | 216.0          | 175.2         | 3.7            | 11.8       | SE |        |
| Α                | 2               | 1,150          | 1,403              | 22.0           | 100.6         | 11.4           | 13.9       | SE |        |
| Α                | 4 (35%)         | 1,587          | 1,122              | -29.3          | 45.2          | 35.1           | 24.8       | SE |        |
| Α                | 5               | 461            | 1,055              | 128.9          | 106.5         | 4.3            | 9.9        | SE |        |
| А                | 6               | 279            | 349                | 25.1           | 42.3          | 6.6            | 8.3        | SE |        |
| Α                | 7 (50%)         | 1,224          | 1,535              | 25.4           | 31.0          | 39.5           | 49.5       | SE |        |
| Α                | <b>8 (5</b> 0%) | 4,055          | 3,819              | -5.8           | 49.6          | 81.8           | 77.0       | SE |        |
| Α                | 9               | 4,230          | 4,234              | 0.1            | 64.7          | 65.4           | 65.4       | SE |        |
| Α                | 10              | 5,213          | 5,715              | 9.6            | 174.2         | 29.9           | 32.8       | SE |        |
| Α                | 11              | 5,993          | 5,594              | -6.7           | 91.9          | 65.2           | 60.9       | SE |        |
| Α                | 12 (45%)        | 3,744          | 3,803              | 1.6            | 71.4          | 52.4           | 53.3       | SE |        |
| Α                | 366             | 0              | 400                | 100.0          | 250.8         | 0.0            | 1.6        | SE |        |
| Α                | 366.99 *        | 0              | 31                 | 100.0          | N/A           | N/A            | N/A        | SE |        |
| В                | 14 (30%)        | 1,041          | 1,129              | 8.5            | 23.8          | 43.7           | 47.4       | SE |        |
| В                | 15              | 2,512          | 2,537              | 1.0            | 58.6          | 42.9           | 43.3       | SE |        |
| В                | 16              | 1,837          | 1, <del>9</del> 43 | 5.8            | 49.4          | 37.2           | 39.3       | SE |        |
| В                | 17              | 2,149          | 2,493              | 16.0           | 50.7          | 42.4           | 49.2       | SE |        |
| В                | 18              | 3,625          | 3,247              | -10.4          | 59.3          | 61.1           | 54.8       | SE |        |
| В                | 19 (35%)        | 1,326          | 847                | -36.1          | 28.5          | 46.5           | 29.7       | SE |        |
| В                | 21 (80%)        | 2,251          | 2,109              | -6.3           | 47.Ô          | 47.9           | 44,9       | SE |        |
| В                | 22 (90%)        | 2,036          | 1,976              | -2.9           | 53.2          | 38.3           | 37.1       | SE |        |
| В                | 23              | 2,908          | 2,529              | -13.0          | 52.6          | 55.3           | 48.1       | SE | ι.     |
| В                | 24              | 4,760          | 4,311              | -9.4           | 132.0         | 36.1           | 32.7       | SE |        |
| В                | 25              | 4,960          | 3,435              | -30.7          | 98.6          | 50.3           | 34.8       | SE |        |
| В                | 26              | 0              | 0                  | 0.0            | 113. <b>7</b> | 0.0            | 0.0        | SE |        |
| В                | 27              | 8,5 <b>7</b> 6 | 7,365              | -14.1          | 146.5         | 58.5           | 50.3       | SE |        |
| В                | 28              | 9,632          | 8,968              | -6,9           | 146.0         | 66.0           | 61.4       | SE |        |
| В                | 29              | 5.163          | 4.017              | -22.2          | 89.7          | 57.6           | 44.8       | SE |        |

| В | 30 (40%)          | 3,236           | 3,346  | 3.4          | 47.0    | 68.9        | 71.2         | SE |
|---|-------------------|-----------------|--------|--------------|---------|-------------|--------------|----|
| В | 39 (5%)           | 67 <del>9</del> | 593    | -12.7        | 11.1    | 61.2        | 53.4         | SE |
| в | 40                | 11,188          | 9,447  | -15.6        | 160.1   | 69.9        | <b>59</b> .0 | SE |
| В | 41                | 14,936          | 13,326 | -10.8        | 191.8   | 77.9        | 69.5         | SE |
| В | 42                | 11,763          | 11,081 | -5.8         | 198.4   | 59.3        | 55.9         | SE |
| в | 43                | 0               | 46     | 100.0        | 466.5   | 0.0         | 0.1          | SE |
| в | 43.99*            | 58              | 0      | -100.0       | N/A     | N/A         | N/A          | SE |
| В | 44                | 1,253           | 1,078  | -14.0        | 142.6   | 8.8         | 7.6          | SE |
| в | 45                | 3,609           | 3,255  | -9.8         | 123.3   | 29.3        | 26.4         | SE |
| В | 48                | 584             | 526    | -9. <b>9</b> | 112.2   | 5.2         | 4.7          | SE |
| В | 49                | 2               | 0      | -100.0       | 1,092.9 | 0.0         | 0.0          | SE |
| В | 50 <b>(</b> 60%)  | 1,811           | 1,337  | -26.2        | 666.0   | 2.7         | 2.0          | SE |
| в | 50.99(60%)*       | 511             | 1,372  | 168.5        | N/A     | N/A         | N/A          | SE |
| Ε | 125 (40%)         | 1,357           | 1,445  | 6.5          | 82.9    | 16.4        | 17.4         | SE |
| Ε | 126               | 409             | 635    | 55.3         | 90.7    | 4.5         | 7.0          | SE |
| Ε | 127               | 378             | 399    | 5.6          | 83.3    | 4.5         | 4.8          | SE |
| Ε | 128               | 71              | 163    | 129.6        | 63.5    | 1.1         | 2.6          | SE |
| Ε | 129               | 288             | 430    | 49.3         | 89.5    | 3.2         | 4.8          | SE |
| Ε | 130               | 878             | 1,009  | 14.9         | 51.4    | 17.1        | 19.6         | SE |
| Ε | 131               | 2,772           | 2,200  | -20.6        | 79.1    | 35.0        | 27.8         | SE |
| Ε | 132               | 4,722           | 4,166  | -11.8        | 107.0   | 44.1        | 38.9         | SE |
| E | 133               | 2,676           | 2,264  | -15.4        | 88.7    | 30.2        | 25.5         | SE |
| Ε | 134 (50%)         | 2,847           | 2,701  | -5.1         | 52.9    | 53.8        | 51.1         | SE |
| Ε | 135 (95%)         | 3,346           | 3,540  | 5.8          | 95.3    | 35.1        | 37.1         | SE |
| Ε | 136 (10%)         | 653             | 588    | -10.0        | 10.0    | 65.3        | 58.8         | SE |
| Е | 137(50%)          | 3,610           | 3,287  | -8.9         | 75.0    | 48.1        | 43.8         | SE |
| Ε | 138 <b>(</b> 90%) | 3,355           | 2,647  | -21.1        | 78.3    | 42.8        | 33.8         | SE |
| Ε | 139               | 5,404           | 4,785  | -11.5        | 140.1   | 38.6        | 34.2         | SE |
| Ε | 140               | 4,622           | 3,594  | -22.2        | 105.5   | 43.8        | 34.1         | SE |
| Ε | 141               | 3,536           | 2,768  | -21.7        | 141.3   | <b>25.0</b> | 19.6         | SE |
| Ε | 142               | 2,232           | 2,190  | -1.9         | 196.2   | 11.4        | 11.2         | SE |
| Ε | 144               | 3,362           | 3,331  | -0.9         | 154.2   | 21.8        | 21.6         | SE |
| Е | 145               | 2,764           | 2,006  | -27.4        | 80.1    | 34.5        | 25.0         | SE |
| E | 146               | 3,086           | 3,322  | 7.6          | 112.7   | 27.4        | 29.5         | SE |

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| E   | 147                | 3,540  | 2,437  | -31.2 | 85.5  | 41.4 | 28.5 | SE |
|-----|--------------------|--------|--------|-------|-------|------|------|----|
| E   | 148                | 1,738  | 1,278  | -26.5 | 47.2  | 36.8 | 27.1 | SE |
| E   | 149                | 6,853  | 5,834  | -14.9 | 110.0 | 62.3 | 53.0 | SE |
| Е   | 151 (75%)          | 8,059  | 6,911  | -14.2 | 140.3 | 57.4 | 49.3 | SE |
| Е   | 152                | 11,241 | 8,134  | -27.6 | 161.9 | 69.4 | 50.2 | SE |
| Е   | 153                | 5,308  | 3,621  | -31.8 | 113.7 | 46.7 | 31.8 | SE |
| Е   | 154                | 2,150  | 1,819  | -15.4 | 76.8  | 28.0 | 23.7 | SE |
| E   | 155                | 4,565  | 3,413  | -25.2 | 104.0 | 43.9 | 32.8 | SE |
| E   | 156                | 2,857  | 2,386  | -16.5 | 106.0 | 27.0 | 22.5 | SE |
| Е   | 157                | 2,628  | 2,764  | 5.2   | 122.3 | 21.5 | 22.6 | SE |
| E   | 162                | 3,537  | 2,858  | -19.2 | 86.2  | 41.0 | 33.2 | SE |
| Е   | 163                | 4,229  | 4,147  | -1.9  | 139.6 | 30.3 | 29.7 | SE |
| E   | 164 (95%)          | 5,834  | 5,310  | -9.0  | 112.5 | 51.9 | 47.2 | SE |
| Е   | 165                | 5,095  | 3,870  | -24.0 | 99.1  | 51.4 | 39.1 | SE |
| Е   | 166                | 1,788  | 1,475  | -17.5 | 63.3  | 28.2 | 23.3 | SE |
| E   | 167                | 10,391 | 8,509  | -18.1 | 151.2 | 68.7 | 56.3 | SE |
| Е   | 168                | 5,903  | 5,370  | -9.0  | 142.8 | 41.3 | 37.6 | SE |
| Е   | 169 (40%)          | 5,842  | 4,911  | -15.9 | 106.6 | 54.8 | 46.1 | SE |
| F   | 170 (45%)          | 2,039  | 1,767  | -13.3 | 176.6 | 11.5 | 10.0 | SE |
| F   | 171 (20%)          | 1,215  | 1,055  | -13.2 | 56.6  | 21.5 | 18.6 | SE |
| F   | 172 (30%)          | 3,395  | 2,993  | -11.8 | 41.5  | 81.8 | 72.1 | SE |
| F   | 175 (55%)          | 5,315  | 4,955  | -6.8  | 97.2  | 54.7 | 51.0 | SE |
| , F | 176                | 10,791 | 11,464 | 6.2   | 243.6 | 44.3 | 47.1 | SE |
| F   | 195 (40%)          | 3,360  | 3,483  | 3.7   | 77.5  | 43.4 | 44.9 | SE |
| F   | 202 (2 <b>0</b> %) | 1,472  | 1,220  | -17.1 | 37.8  | 38.9 | 32.3 | SE |
| F   | 205 (15%)          | 493    | 519    | 5.3   | 53.1  | 9.3  | 9.8  | SE |
| G   | 143                | 1,488  | 1,470  | -1.2  | 136.9 | 10.9 | 10.7 | SE |
| G   | 158                | 6,786  | 6,059  | -10.7 | 147.0 | 46.2 | 41.2 | SE |
| G   | 159                | 1,926  | 1,765  | -8.4  | 171.5 | 11.2 | 10.3 | SE |
| G   | 160                | 8,420  | 7,973  | -5.3  | 176.4 | 47.7 | 45.2 | SE |
| G   | 161                | 6,546  | 6,034  | -7.8  | 172.0 | 38.1 | 35.1 | SE |
| G   | 177 (80%)          | 7,298  | 6,878  | -5.8  | 141.1 | 51.7 | 48.7 | SE |
| G   | 178 (25%)          | 1,720  | 1,563  | -9.1  | 41.9  | 41.1 | 37.3 | SE |
| i   | 206 (70%)          | 1,289  | 1,124  | -12.8 | 222.5 | 5.8  | 5.1  | SE |
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| ł         | 207 (10%) | 664               | 679     | 2.3   | 35.2              | 18.9 | 19.3 | SE |
|-----------|-----------|-------------------|---------|-------|-------------------|------|------|----|
| ł         | 208 (40%) | 838               | 605     | -27.8 | 88.7              | 9.4  | 6.8  | SE |
| l         | 223 (55%) | 37                | 206     | 456.8 | 754.8             | 0.0  | 0.3  | SE |
| . 1       | 228 (10%) | 157               | 145     | -7.6  | 17.4              | 9.0  | 8.3  | SE |
| t         | 229 (90%) | 222               | 288     | 29.7  | 266.7             | 0.8  | 1.1  | SE |
| 1         | 230       | 384               | 434     | 13.0  | 308.4             | 1.2  | 1.4  | SE |
| ł         | 231       | 1,347             | 1,293   | -4.0  | 210.0             | 6.4  | 6.2  | SE |
| l         | 232       | 690               | 870     | 26.1  | 193.7             | 3.6  | 4.5  | SE |
| ļ         | 233       | 3,644             | 3,243   | -11.0 | 147.5             | 24.7 | 22.0 | SE |
| 1         | 234       | 631               | 574     | -9.0  | 200.2             | 3.2  | 2.9  | SE |
| I         | 235       | 1,367             | 1,182   | -13.5 | 196.4             | 7.0  | 6.0  | SE |
| 1         | 236       | 3,01 <del>6</del> | 2,636   | -12.6 | 241.7             | 12.5 | 10.9 | SE |
| 1         | 237 (60%) | 3,310             | 3,209   | -3.1  | 160.4             | 20.6 | 20.0 | SE |
| 1         | 238 (75%) | 3,706             | 3,487   | -5.9  | 146.2             | 25.3 | 23.9 | SE |
| 1         | 239       | 1,913             | 1,702   | -11.0 | 121.1             | 15.8 | 14.1 | SE |
| 1         | 240 (70%) | 2,852             | 2,935   | 2.9   | 107.1             | 26.6 | 27.4 | SE |
|           | 241 (25%) | 366               | 374     | 2.2   | 25.3              | 14.5 | 14.8 | SE |
| 1         | 255 (5%)  | 153               | 145     | -5.2  | 9.6               | 15.9 | 15.1 | SE |
| 1         | 256 (80%) | 2,457             | 2,377   | -3.3  | 171.8             | 14.3 | 13.8 | SE |
| 1         | 257       | 3,691             | 3,448   | -6.6  | 183.4             | 20.1 | 18.8 | SE |
| J         | 258 (45%) | 948               | 827     | -12.8 | 64.9              | 14.6 | 12.7 | SE |
| J         | 259 (35%) | 2,052             | 1,929   | -6.0  | 47.3              | 43.4 | 40.8 | SE |
| Subtotal: |           | 372,922           | 338,873 | -9.1  | 1 <b>5,202.</b> 6 | 24.5 | 22.3 |    |
| А         | 3         | 2,160             | 2,427   | 12.4  | 139.1             | 15.5 | 17.4 | sw |
| А         | 4 (65%)   | 2,946             | 2,084   | -29.3 | 84.0              | 35.1 | 24.8 | SW |
| Α         | 7 (50%)   | 1,224             | 1,534   | 25.3  | 31.0              | 39.5 | 49.5 | SW |
| Α         | 8 (50%)   | 4,055             | 3,818   | -5.8  | 49.5              | 81.9 | 77.1 | SW |
| А         | 12 (55%)  | 4,575             | 4,649   | 1.6   | 87.2              | 52.5 | 53.3 | SW |
| В         | 13        | 5,152             | 4,520   | -12.3 | 177.7             | 29.0 | 25.4 | SW |
| В         | 14 (70%)  | 2,428             | 2,634   | 8.5   | 55.5              | 43.7 | 47.5 | SW |
| В         | 19 (65%)  | 2,462             | 1,572   | -36.1 | 53.0              | 46.5 | 29.7 | SW |
| В         | 20        | 2,681             | 2,516   | -6.2  | 71.9              | 37.3 | 35.0 | SW |

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| 8 | 21 (20%)    | 563    | 527    | -6.4  | 11.8    | 47.7 | 44.7          | SW |
|---|-------------|--------|--------|-------|---------|------|---------------|----|
| 8 | 22 (10%)    | 226    | 219    | -3.1  | 5.9     | 38.3 | 37.1          | SW |
| 8 | 30 (60%)    | 4,854  | 5,018  | 3.4   | 70.6    | 68.8 | · <b>71.1</b> | SW |
| В | 31          | 6,422  | 5,902  | -8.1  | 97.6    | 65.8 | 60.5          | SW |
| B | 32          | 6,926  | 6,147  | -11.2 | 122.3   | 56.6 | 50.3          | SW |
| 8 | 33          | 7,271  | 6,128  | -15.7 | 185.6   | 39.2 | 33.0          | SW |
| 8 | 34          | 557    | 466    | -16.3 | 146.5   | 3.8  | 3.2           | SW |
| 8 | 35          | 123    | 95     | -22.8 | 406.7   | 0.3  | 0.2           | SW |
| 8 | 36          | 7,813  | 7,429  | -4.9  | 220.4   | 35.4 | 33.7          | SW |
| 8 | 37          | 11,021 | 10,373 | -5.9  | 151.7   | 72.6 | 68.4          | SW |
| 8 | 38.99       | 4,640  | 4,092  | -11.8 | 171.7   | 27.0 | 23.8          | SW |
| 8 | 39 (95%)    | 12,897 | 11,260 | -12.7 | 211.0   | 61.1 | 53.4          | SW |
| 8 | 46          | 3,072  | 2,391  | -22.2 | 923.4   | 3.3  | 2.6           | SW |
| 8 | 47.98       | 4,663  | 4,370  | -6.3  | 205.6   | 22.7 | 21.3          | SW |
| 8 | 50 (40%)    | 1,208  | 892    | -26.2 | 444.0   | 2.7  | 2.0           | SW |
| 8 | 50.99(40%)* | 341    | 915    | 168.3 | N/A     | N/A  | N/A           | SW |
| 8 | 51          | 592    | 1,165  | 96.8  | 596.3   | 1.0  | 2.0           | SW |
| С | 52          | 31     | 53     | 71.0  | 2,140.7 | 0.0  | 0.0           | SW |
| С | 54          | 935    | 1,271  | 35.9  | 436.6   | 2.1  | 2.9           | SW |
| С | 55          | 6,274  | 6,293  | 0.3   | 296.5   | 21.2 | 21.2          | SW |
| С | 56          | 1,259  | 1,217  | -3.3  | 207.6   | 6.1  | 5.9           | SW |
| С | 57          | 81     | 3      | -96.3 | 318.5   | 0.3  | 0.0           | SW |
| С | 58          | 0      | 32     | 100.0 | 838.9   | 0.0  | 0.0           | SW |
| С | 59          | 0      | 0      | 0.0   | 96.4    | 0.0  | 0.0           | SW |
| С | 60          | 6,848  | 6,554  | -4.3  | 268.6   | 25.5 | 24.4          | SW |
| С | 61          | 3,548  | 3,146  | -11.3 | 132.0   | 26.9 | 23.8          | SW |
| С | 62          | 4,292  | 4,038  | -5.9  | 124.8   | 34.4 | 32.4          | SW |
| С | 63          | 4,468  | 4,709  | 5.4   | 137.1   | 32.6 | 34.3          | SW |
| С | 64          | 4,861  | 4,512  | -7.2  | 163.8   | 29.7 | 27.5          | SW |
| С | 65          | 6,716  | 6,283  | -6.4  | 286.4   | 23.4 | 21.9          | SW |
| С | 66          | 4,253  | 4,218  | -0.8  | 162.1   | 26.2 | 26.0          | SW |
| С | 67          | 7,118  | 6,431  | -9.7  | 248.3   | 28.7 | 25.9          | SW |
| С | 68          | 0      | 0      | 0.0   | 225.4   | 0.0  | 0.0           | SW |
| С | 69          | 2,974  | 2,520  | -15.3 | 150.2   | 19.8 | 16.8          | SW |

| С | 70        | 5,633  | 5,374  | -4.6  | 115.9        | 48.6             | 46.4 | SW |
|---|-----------|--------|--------|-------|--------------|------------------|------|----|
| С | 71        | 10,371 | 9,952  | -4.0  | 165.6        | 62.6             | 60.1 | SW |
| С | 72        | 6,476  | 6,112  | -5.6  | 120.8        | 53.6             | 50.6 | SW |
| С | 73        | 4,227  | 3,722  | -11.9 | 96.6         | 43.8             | 38.5 | SW |
| С | 74        | 5,963  | 5,445  | -8.7  | 167.0        | 35.7             | 32.6 | SW |
| С | 75        | 0      | 0      | 0.0   | 123.1        | 0.0              | 0.0  | SW |
| D | 76        | 1,774  | 416    | -76.6 | 248,3        | 7.1              | 1.7  | SW |
| D | 77        | 1,898  | 2,253  | 18.7  | 80.3         | 23.6             | 28.1 | SW |
| D | 78        | 5,319  | 4,776  | -10.2 | 107.2        | 49.6             | 44.6 | SW |
| D | <b>79</b> | 5,147  | 4,729  | -8.1  | 93.2         | 55.2             | 50.7 | SW |
| D | 80        | 5,508  | 5,031  | -8.7  | 105.8        | 52.1             | 47.6 | SW |
| D | 81        | 10,325 | 9,314  | -9.8  | 152.0        | 67.9             | 61.3 | SW |
| D | 82        | 9,140  | 8,020  | -12.3 | 206.1        | 44.3             | 38.9 | SW |
| D | 83        | 11,136 | 10,336 | -7.2  | 232.8        | 47.8             | 44.4 | SW |
| D | 84        | 5,624  | 5,286  | -6.0  | 122.8        | 45.8             | 43.0 | SW |
| D | 85        | 8,170  | 7,761  | -5.0  | 154.2        | 53.0             | 50.3 | SW |
| D | 86        | 6,559  | 6,685  | 1.9   | 154.9        | 42.3             | 43.2 | SW |
| D | 87        | 7,210  | 7,249  | 0.5   | 133.2        | 54.1             | 54.4 | SW |
| D | 88        | 8,440  | 9,190  | 8.9   | 140.6        | 60.0             | 65.4 | SW |
| D | 89        | 2,246  | 2,786  | 24.0  | 216.0        | 10.4             | 12.9 | SW |
| D | 90        | 3,805  | 4,473  | 17.6  | 110.2        | 34.5             | 40.6 | SW |
| D | 91        | 2,722  | 2,968  | 9.0   | 103.5        | 26.3             | 28.7 | SW |
| D | 92        | 3,440  | 3,197  | -7.1  | 127.3        | 27.0             | 25.1 | SW |
| D | 93        | 5,286  | 4,922  | -6.9  | 99.6         | 53.1             | 49.4 | SW |
| D | 94        | 4,235  | 4,226  | -0.2  | 92.2         | 45. <del>9</del> | 45.8 | SW |
| D | 95        | 4,214  | 3,877  | -8.0  | 80.1         | 52.6             | 48.4 | SW |
| D | 96        | 5,230  | 4,915  | -6.0  | 101.3        | 51.6             | 48.5 | SW |
| D | 97        | 42     | 89     | 111.9 | 527.1        | 0.1              | 0.2  | SW |
| D | 98        | 7,677  | 7,271  | -5.3  | 223.4        | 34.4             | 32.5 | SW |
| D | 99        | 380    | 366    | -3.7  | 50. <b>9</b> | 7.5              | 7.2  | SW |
| D | 100       | 4,455  | 3,882  | -12.9 | 136.6        | 32.6             | 28.4 | SW |
| D | 101       | 6,867  | 6,389  | -7.0  | 149.0        | 46.1             | 42.9 | SW |
| D | 102       | 3,256  | 3,231  | -0.8  | 88.5         | 36.8             | 36.5 | SW |
| D | 103       | 3,168  | 2,933  | -7.4  | 71.2         | 44.5             | 41.2 | SW |

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| D | 104       | 4,421 | 4,251 | -3.8  | 116.6   | 37.9 | 36.5 | SW |
|---|-----------|-------|-------|-------|---------|------|------|----|
| D | 105       | 5,297 | 4,535 | -14.4 | 165.1   | 32.1 | 27.5 | SW |
| D | 106       | 2,132 | 1,622 | -23.9 | 64.0    | 33.3 | 25.3 | SW |
| D | 107       | 4,718 | 4,166 | -11.7 | 114.4   | 41.2 | 36.4 | SW |
| D | 108       | 5,969 | 4,727 | -20.8 | 132.7   | 45.0 | 35.6 | SW |
| D | 109       | 3,143 | 2,503 | -20.4 | 63.8    | 49.3 | 39.2 | SW |
| D | 110       | 4,767 | 4,591 | -3.7  | 119.8   | 39.8 | 38.3 | SW |
| D | 111       | 5,727 | 5,333 | -6.9  | 325.9   | 17.6 | 16.4 | SW |
| D | 112       | 6,672 | 6,547 | -1.9  | 125.0   | 53.4 | 52.4 | SW |
| D | 113       | 3,802 | 3,545 | -6.8  | 85.3    | 44.6 | 41.6 | SW |
| D | 114       | 7,537 | 7,232 | -4.0  | 240.7   | 31.3 | 30.0 | SW |
| D | 115       | 4,364 | 3,776 | -13.5 | 88.5    | 49.3 | 42.7 | SW |
| D | 116       | 3,433 | 2,997 | -12.7 | 185.1   | 18.5 | 16.2 | SW |
| D | 117       | 1,942 | 2,088 | 7.5   | 164.1   | 11.8 | 12.7 | SW |
| D | 118       | 7,529 | 7,059 | -6.2  | 232.3   | 32.4 | 30.4 | SW |
| D | 1 19      | 6,183 | 6,302 | 1.9   | 172.5   | 35.8 | 36.5 | SW |
| D | 120       | 1,747 | 1,781 | 1.9   | 148.0   | 11.8 | 12.0 | SW |
| D | 121       | 2,989 | 3,007 | 0.6   | 221.2   | 13.5 | 13.6 | SW |
| D | 122       | 7,249 | 6,955 | -4.1  | 353.4   | 20.5 | 19.7 | SW |
| D | 123       | 85    | 117   | 37.6  | 1,362.5 | 0.1  | 0.1  | SW |
| D | 124       | 0     | 8     | 100.0 | 298.7   | 0.0  | 0.0  | SW |
| E | 125 (60%) | 2,035 | 2,167 | 6.5   | 124.4   | 16.4 | 17.4 | SW |
| E | 134 (50%) | 2,847 | 2,700 | -5.2  | 52.9    | 53.8 | 51.0 | SW |
| E | 135 (5%)  | 176   | 186   | 5.7   | 5.0     | 35.2 | 37.2 | SW |
| E | 136 (90%) | 5,879 | 5,294 | -10.0 | 89.8    | 65.5 | 59.0 | SW |
| E | 137 (50%) | 3,610 | 3,286 | -9.0  | 75.0    | 48.1 | 43.8 | SW |
| E | 138 (10%) | 373   | 294   | -21.2 | 8.7     | 42.9 | 33.8 | SW |
| E | 150       | 10    | 97    | 870.0 | 588.8   | 0.0  | 0.2  | SW |
| E | 151 (25%) | 2,686 | 2,304 | -14.2 | 46.8    | 57.4 | 49.2 | SW |
| E | 169 (60%) | 8,762 | 7,367 | -15.9 | 160.0   | 54.8 | 46.0 | SW |
| F | 170 (55%) | 2,493 | 2,160 | -13.4 | 215.8   | 11.6 | 10.0 | SW |
| F | 171 (75%) | 4,557 | 3,957 | -13.2 | 212.3   | 21.5 | 18.6 | SW |
| F | 172 (70%) | 7,921 | 6,983 | -11.8 | 96.9    | 81.7 | 72.1 | SW |
| F | 202 (10%) | 736   | 611   | -17.0 | 18.8    | 39.1 | 32.5 | SW |

| Total:    |           | 1,688,210 | 1,585,577      | -6.1  | 86,483.7 | 19.5 | 18.3 |    |
|-----------|-----------|-----------|----------------|-------|----------|------|------|----|
| Subtotal: |           | 519,702   | <b>486,253</b> | -6.4  | 28,321.8 | 18.3 | 17.2 | -  |
| I         | 229 (10%) | 25        | 32             | 28.0  | 29.6     | 0.8  | 1.1  | SW |
| l         | 228 (90%) | 1,416     | 1,302          | -8.1  | 156.8    | 9.0  | 8.3  | SW |
| l         | 227       | 1,307     | 1,423          | 8.9   | 141.6    | 9.2  | 10.0 | SW |
| 1         | 226       | 479       | 472            | -1.5  | 152.5    | 3.1  | 3.1  | SW |
| ł         | 225       | 765       | 506            | -33.9 | 221.7    | 3.5  | 2.3  | SW |
| 1         | 224       | 375       | 335            | -10.7 | 160.4    | 2.3  | 2.1  | SW |
| ł         | 223 (45%) | 31        | 168            | 441.9 | 617.6    | 0.1  | 0.3  | SW |
| 1         | 208 (60%) | 1,257     | 908            | -27.8 | 133.0    | 9.5  | 6.8  | SW |
| 1         | 207 (90%) | 5,974     | 6,114          | 2.3   | 317.2    | 18.8 | 19.3 | sw |
| l         | 206 (20%) | 369       | 321            | -13.0 | 63.5     | 5.8  | 5.1  | SW |
| Н         | 222       | 1,215     | 1,555          | 28.0  | 505.3    | 2.4  | 3.1  | SW |
| Н         | 221       | 1,265     | 1,167          | -7.7  | 161.9    | 7.8  | 7.2  | SW |
| н         | 220       | 1,147     | 1,600          | 39.5  | 719.1    | 1.6  | 2.2  | SW |
| Н         | 219       | 1,494     | 1,404          | -6.0  | 382.3    | 3.9  | 3.7  | SW |
| н         | 218       | 4.267     | 4.053          | -5.0  | 250.8    | 17.0 | 16.2 | SW |
| Н         | 217       | 7,158     | 6,376          | -10.9 | 388.7    | 18.4 | 16,4 | SW |
| Н         | 216       | 1,479     | 1,464          | -1.0  | 432.9    | 3.4  | 3.4  | SW |
| H         | 215       | 3,924     | 3.542          | -9.7  | 270.1    | 14.5 | 13.1 | SW |
| H         | 214       | 4,417     | 3.867          | -12.5 | 157.2    | 28.1 | 24.6 | SW |
| H         | 213       | 4,148     | 3,830          | -7.7  | 134.4    | 30.9 | 28.5 | SW |
| н         | 212       | 2,702     | 2,474          | -8.4  | 122.3    | 22.1 | 20.2 | SW |
| н         | 211       | 2,981     | 2,608          | -12.5 | 134.9    | 22.1 | 19.3 | SW |
| н         | 210       | 5,770     | 5,505          | -4.6  | 210.5    | 27.4 | 26.2 | SW |
| Н         | 209       | 3,473     | 3,080          | -11.3 | 131,5    | 26.4 | 23.4 | sw |

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\* Population living on boats, adjacent to tract.\$ One house, minimal acerage

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 $f = -\frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} \right) \left( \frac{1}{2} - \frac{$ 

## City of Philadelphia 1990-1996 Census Data Comparison

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### Population

| Planning |           | 1990       | 1996       | Percent | Tract | 1990     | 1996     | WWTP    |
|----------|-----------|------------|------------|---------|-------|----------|----------|---------|
| Analysis | Tract     | Total      | Projected  | Change  | Area  | People   | People   | Service |
| Section  | No.       | Population | Population | 90 - 96 | Acres | per Acre | per acre | Area    |
| F        | 104 (50/) |            | 000        | 0.0     | 5.0   | A77 4    | 45.4     | NIC     |
| с<br>г   | 104 (5%)  | 2/9        | 269        | -3.0    | 5,9   | 47.1     | 45.4     | NE      |
| F        | 171 (5%)  | 264        | 247        | -6.4    | 14.1  | 18.7     | 17.5     | NE      |
| F        | 173       | 3,815      | 3,768      | -1.2    | 217.0 | 17.6     | 17.4     | NE      |
| F        | 174       | 3,406      | 3,252      | -4.5    | 86.0  | 39.6     | 37.8     | NE      |
| F        | 175 (45%) | 4,055      | 3,951      | -2.6    | 79.5  | 51.0     | 49.7     | NE      |
| F        | 194       | 361        | 417        | 15.5    | 332.6 | 1.1      | 1.3      | NE      |
| F        | 195 (60%) | 5,224      | 5,417      | 3.7     | 116.2 | 45.0     | 46.6     | NE      |
| F        | 196       | 2,639      | 2,828      | 7.2     | 185.3 | 14.2     | 15.3     | NE      |
| F        | 197       | 7,736      | 8,186      | 5.8     | 210.8 | 36.7     | 38.8     | NE      |
| F        | 198       | 6,966      | 6,778      | -2.7    | 133.4 | 52.2     | 50.8     | NE      |
| F        | 199       | 5,390      | 5,207      | -3.4    | 164.6 | 32.7     | 31.6     | NE      |
| F        | 200       | 2,176      | 1,971      | -9.4    | 79.6  | 27.3     | 24.8     | NE      |
| F        | 201       | 8,049      | 7,329      | -8.9    | 215.7 | 37.3     | 34.0     | NE      |
| F        | 202( 70%) | 4,271      | 3,917      | -8.3    | 132.2 | 32.3     | 29.6     | NE      |
| F        | 203       | 3,780      | 3,334      | -11.8   | 130.0 | 29.1     | 25.6     | · NE    |
| F        | 204       | 3,805      | 3,643      | -4.3    | 101.8 | 37.4     | 35.8     | NE      |
| F        | 205 (85%) | 2,941      | 3,060      | 4.0     | 301.0 | 9.8      | 10.2     | NE      |
| G        | 177 (20%) | 1,719      | 1,683      | -2.1    | 35.3  | 48.7     | 47.7     | NE      |
| G        | 178 (75%) | 4,689      | 4,493      | -4.2    | 125.6 | 37.3     | 35.8     | NE      |
| G        | 179       | 6,435      | 6,233      | -3.1    | 167.8 | 38.3     | 37.1     | NE      |
| G        | 180       | 8,419      | 8,388      | -0.4    | 201.1 | 41.9     | 41.7     | NE      |
| G        | 181       | 197        | 203        | 3.0     | 170.7 | 1.2      | 1.2      | NE      |
| G        | 182       | 375        | 376        | 0.3     | 581.7 | 0.6      | 0.6      | NE      |
| G        | 182.99*   | 0          | 0          | N/A     | N/A   | N/A      | N/A      | NE      |

| G   | 183       | 4,225 | 4,136 | -2.1  | 520.6 | 8.1  | 7.9  | NE |
|-----|-----------|-------|-------|-------|-------|------|------|----|
| G   | 184       | 2,306 | 2,325 | 0.8   | 282.4 | 8.2  | 8.2  | NE |
| G   | 185       | 134   | 129   | -3.7  | 163.6 | 0.8  | 0.8  | NE |
| G   | 186       | 4,821 | 4,711 | -2.3  | 176.2 | 27.4 | 26.7 | NE |
| G   | 187       | 1,773 | 1,804 | 1.7   | 198.9 | 8.9  | 9.1  | NE |
| G   | 188       | 7,167 | 7,113 | -0.8  | 166.3 | 43.1 | 42.8 | NE |
| G   | 189       | 1,013 | 1,014 | 0.1   | 252.5 | 4.0  | 4.0  | NE |
| G   | 190       | 6,428 | 6,326 | -1.6  | 196.9 | 32.6 | 32.1 | NE |
| G   | 191       | 6,060 | 5,774 | -4.7  | 359.5 | 16.9 | 16.1 | NE |
| G   | 192       | 7,078 | 7,008 | -1.0  | 162.8 | 43.5 | 43.0 | NE |
| G   | 193       | 134   | 138   | 3.0   | 280.7 | 0.5  | 0.5  | NE |
| 1   | 206 (10%) | 161   | 150   | -6.8  | 31.8  | 5.1  | 4.7  | NE |
| I   | 237 (40%) | 2,140 | 2,056 | -3.9  | 107.0 | 20.0 | 19.2 | NE |
| I I | 238 (25%) | 1,163 | 1,130 | -2.8  | 48.8  | 23.8 | 23.2 | NE |
| I I | 240 (30%) | 1,258 | 1,288 | 2.4   | 45.9  | 27.4 | 28.1 | NE |
| I I | 241 (75%) | 1,121 | 1,182 | 5.4   | 76.0  | 14.8 | 15.6 | NE |
| I I | 242       | 4,312 | 4,093 | -5.1  | 132.7 | 32.5 | 30.8 | NE |
| I I | 243       | 4,294 | 4,228 | -1.5  | 167.0 | 25.7 | 25.3 | NE |
| I   | 244       | 3,671 | 3,456 | -5.9  | 103.8 | 35.4 | 33.3 | NE |
| I I | 245       | 4,527 | 4,591 | 1.4   | 199.4 | 22.7 | 23.0 | NE |
| I   | 246       | 3,310 | 3,194 | -3.5  | 153.2 | 21.6 | 20.8 | NE |
| I I | 247       | 5,640 | 5,615 | -0.4  | 231.8 | 24.3 | 24.2 | NE |
| I   | 248       | 2,210 | 1,978 | -10.5 | 80.6  | 27.4 | 24.5 | NE |
| I.  | 249       | 4,144 | 4,038 | 0.0   | 80.3  | 51.6 | 50.3 | NE |
| I   | 250       | 914   | 857   | -6.2  | 184.1 | 5.0  | 4.7  | NE |
| I I | 251       | 2,275 | 2,210 | -2.9  | 132.2 | 17.2 | 16.7 | NE |
| I   | 252       | 7,379 | 7,088 | -3.9  | 233.5 | 31.6 | 30.4 | NE |
| I I | 253       | 4,315 | 4,061 | -5.9  | 141.3 | 30.5 | 28.7 | NE |
| I   | 254       | 4,548 | 4,375 | -3.8  | 191.0 | 23.8 | 22.9 | NE |
| I   | 255 (95%) | 2,753 | 2,708 | -1.6  | 182.2 | 15.1 | 14.9 | NE |
| 1   | 256 (20%) | 594   | 602   | 1.3   | 42.9  | 13.8 | 14.0 | NE |
| J   | 258 (55%) | 1,011 | 948   | -6.2  | 79.4  | 12.7 | 11.9 | NE |
| J   | 259 (65%) | 3,582 | 3,504 | -2.2  | 87.9  | 40.8 | 39.9 | NE |
| J   | 260       | 3,502 | 3,482 | -0.6  | 133.9 | 26.2 | 26.0 | NE |

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| J | 261 | 3,625  | 3,577  | -1.3  | 164.3 | 22.1 | 21.8 | NE |
|---|-----|--------|--------|-------|-------|------|------|----|
| J | 262 | 5,177  | 5,141  | -0.7  | 137.1 | 37.8 | 37.5 | NE |
| J | 263 | 11,011 | 10,912 | -0.9  | 272.8 | 40.4 | 40.0 | NE |
| J | 264 | 6,443  | 6,313  | -2.0  | 196.9 | 32.7 | 32.1 | NE |
| J | 265 | 5,367  | 5,205  | -3.0  | 136.4 | 39.3 | 38.2 | NE |
| J | 266 | 7,490  | 7,148  | -4.6  | 222.4 | 33.7 | 32.1 | NE |
| J | 267 | 7,834  | 7,511  | 100.0 | 158.9 | 49.3 | 47.3 | NE |
| J | 268 | 4,644  | 4,447  | -4.2  | 189.5 | 24.5 | 23.5 | NE |
| J | 269 | 2,294  | 2,334  | 1.7   | 154.2 | 14.9 | 15.1 | NE |
| J | 270 | 2,275  | 2,203  | -3.2  | 158.4 | 14.4 | 13.9 | NE |
| J | 271 | 2,455  | 2,642  | 7.6   | 93.2  | 26.3 | 28.3 | NE |
| J | 272 | 4,446  | 4,345  | -2.3  | 162.8 | 27.3 | 26.7 | NE |
| J | 273 | 5,525  | 5,733  | 3.8   | 230.5 | 24.0 | 24.9 | NE |
| J | 274 | 9,620  | 10,189 | 5.9   | 207.6 | 46.3 | 49.1 | NE |
| J | 275 | 4,651  | 4,801  | 3.2   | 152.5 | 30.5 | 31.5 | NE |
| J | 276 | 4,250  | 4,220  | -0.7  | 163.8 | 25.9 | 25.8 | NE |
| J | 277 | 5,358  | 5,106  | -4.7  | 135.7 | 39.5 | 37.6 | NE |
| J | 278 | 5,262  | 4,908  | -6.7  | 180.4 | 29.2 | 27.2 | NE |
| J | 279 | 7,901  | 7,564  | -4.3  | 319.5 | 24.7 | 23.7 | NE |
| J | 280 | 5,219  | 5,157  | -1.2  | 176.7 | 29.5 | 29.2 | NE |
| J | 281 | 4,377  | 4,321  | -1.3  | 125.3 | 34.9 | 34.5 | NE |
| J | 282 | 6,016  | 5,915  | -1.7  | 213.5 | 28.2 | 27.7 | NE |
| J | 283 | 8,746  | 8,262  | -5.5  | 167.8 | 52.1 | 49.2 | NE |
| J | 284 | 5,865  | 5,435  | -7.3  | 117.6 | 49.9 | 46.2 | NE |
| J | 285 | 2,259  | 2,355  | 4.2   | 70.7  | 32.0 | 33.3 | NE |
| J | 286 | 7,114  | 7,499  | 5.4   | 168:8 | 42.1 | 44.4 | NE |
| J | 287 | 2,468  | 2,606  | 5.6   | 87.5  | 28.2 | 29.8 | NE |
| J | 288 | 3,853  | 4,072  | 5.7   | 114.9 | 33.5 | 35.4 | NE |
| J | 289 | 8,484  | 8,335  | -1.8  | 292.1 | 29.0 | 28.5 | NE |
| J | 290 | 5,670  | 5,905  | 4.1   | 198.7 | 28.5 | 29.7 | NE |
| К | 291 | 4,461  | 4,647  | 4.2   | 334.8 | 13.3 | 13.9 | NE |
| К | 292 | 3,965  | 3,989  | 0.6   | 421.1 | 9.4  | 9.5  | NE |
| K | 293 | 2,878  | 2,833  | -1.6  | 172.2 | 16.7 | 16.5 | NE |
| ĸ | 294 | 3,216  | 3,183  | -1.0  | 164.6 | 19.5 | 19.3 | NE |

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| к      | 205  | 1.067   | 1 070 | 0.3   | 156.0 | 69           | 69   |           |
|--------|------|---------|-------|-------|-------|--------------|------|-----------|
| ĸ      | 2006 | 1 1 7 0 | 1,070 | 0.0   | 50.9  | 0.0          | 0.0  |           |
|        | 230  | 1,172   | 1,101 | 0.0   | 176.0 | 20.1         | 20.3 | INE<br>NE |
| r<br>k | 297  | 404     | 401   | 1.5   | 170.2 | 2.0          | 2.0  | INE       |
| n<br>K | 298  | 4,216   | 4,052 | -3.9  | 160.4 | 26.3         | 25.3 | NE        |
| K<br>K | 299  | 4,332   | 4,202 | -3.0  | 147.8 | 29.3         | 28.4 | NE        |
| ĸ      | 300  | 6,867   | 6,919 | 0.8   | 225.4 | 30.5         | 30.7 | NE        |
| K      | 301  | 5,603   | 5,696 | 1.7   | 180.4 | 31.1         | 31.6 | NE        |
| K      | 302  | 6,514   | 6,552 | 0.6   | 220.9 | 29.5         | 29.7 | NE        |
| K      | 303  | 6,947   | 6,617 | -4.8  | 208.3 | 33.4         | 31.8 | NE        |
| K      | 304  | 631     | 715   | 13.3  | 307.4 | 2.1          | 2.3  | NE        |
| K      | 305  | 9,557   | 9,324 | -2.4  | 264.2 | 36.2         | 35.3 | NE        |
| K      | 306  | 6,518   | 6,668 | 2.3   | 247.1 | 26.4         | 27.0 | NE        |
| К      | 307  | 2,929   | 2,938 | 0.3   | 158.6 | 18.5         | 18.5 | NE        |
| К      | 308  | 4,403   | 4,465 | 1.4   | 195.2 | <b>22</b> .6 | 22.9 | NE        |
| К      | 309  | 3,278   | 3,320 | 1.3   | 158.9 | 20.6         | 20.9 | NE        |
| К      | 310  | 5,636   | 5,638 | 0.0   | 266.4 | 21.2         | 21.2 | NE        |
| K      | 311  | 7,940   | 7,839 | -1.3  | 185.1 | 42.9         | 42.4 | NE        |
| К      | 312  | 3,857   | 3,841 | -0.4  | 102.3 | 37.7         | 37.5 | NE        |
| K      | 313  | 5,396   | 5,320 | -1.4  | 178.2 | 30.3         | 29.9 | NE        |
| К      | 314  | 9,575   | 9,396 | -1.9  | 280.5 | 34.1         | 33.5 | NE        |
| К      | 315  | 9,379   | 9,175 | -2.2  | 293.3 | 32.0         | 31.3 | NE        |
| К      | 316  | 5,530   | 5,338 | -3.5  | 180.9 | 30.6         | 29.5 | NE        |
| К      | 317  | 5,581   | 5,327 | -4.6  | 217.0 | 25.7         | 24.5 | NE        |
| ĸ      | 318  | 3,456   | 3,427 | -0.8  | 117.9 | 29.3         | 29.1 | NE        |
| К      | 319  | 4,810   | 4,758 | -1.1  | 188.8 | 25.5         | 25.2 | NE        |
| к      | 320  | 6,449   | 6,209 | -3.7  | 171.0 | 37.7         | 36.3 | NE        |
| К      | 321  | 3,906   | 3,862 | -1.1  | 136.4 | 28.6         | 28.3 | NE        |
| К      | 322  | 179     | 159   | -11.2 | 138.4 | 1.3          | 1.1  | NE        |
| К      | 323  | 3,596   | 3,499 | -2.7  | 150.2 | 23.9         | 23.3 | NE        |
| к      | 324  | 15      | 16    | 6.7   | 168.3 | 0.1          | 0.1  | NE        |
| к      | 325  | 5,747   | 5.673 | -1.3  | 207.8 | 27.7         | 27.3 | NE        |
| к      | 326  | 6,733   | 6.571 | -2.4  | 199.9 | 33.7         | 32.9 | NE        |
| к      | 327  | 307     | 268   | -12.7 | 340.8 | 0.9          | 0.8  | NE        |
| к      | 329  | 4,216   | 4.178 | -0.9  | 233.0 | 18.1         | 17.9 | NE        |
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| К | 330   | 7,408  | 7,137  | -3.7 | 184.1   | 40.2 | 38.8 | NE   |
|---|-------|--------|--------|------|---------|------|------|------|
| К | 331   | 9,099  | 9,077  | -0.2 | 294.3   | 30.9 | 30.8 | NE   |
| К | 332   | 2,594  | 2,505  | -3.4 | 207.1   | 12.5 | 12.1 | NE   |
| К | 333   | 4,025  | 4,024  | 0.0  | 257.2   | 15.6 | 15.6 | NE   |
| К | 334   | 4,456  | 4,291  | -3.7 | 291.1   | 15.3 | 14.7 | NE   |
| К | 335   | 3,400  | 3,394  | -0.2 | 226.6   | 15.0 | 15.0 | NE   |
| К | 336   | 6,148  | 5,903  | -4.0 | 279.5   | 22.0 | 21.1 | NE   |
| К | 337   | 9,025  | 8,808  | -2.4 | 504.3   | 17.9 | 17.5 | NE   |
| К | 338   | 5,461  | 5,426  | -0.6 | 344.5   | 15.9 | 15.8 | NE   |
| К | 339   | 2,862  | 2,837  | -0.9 | 281.7   | 10.2 | 10.1 | NE   |
| К | 340   | 2,518  | 2,388  | -5.2 | 187.1   | 13.5 | 12.8 | NE   |
| К | 341   | 5,567  | 5,522  | -0.8 | 333.8   | 16.7 | 16.5 | NE   |
| К | 342   | 3,369  | 3,529  | 4.7  | 245.1   | 13.7 | 14.4 | NE   |
| К | 367\$ | 3      | 3      | 0.0  | 1.2     | N/A  | N/A  |      |
| L | 328   | 5,371  | 5,026  | -6.4 | 662.2   | 8.1  | 7.6  | NE   |
| L | 343   | 168    | 168    | 0.0  | 1,336.3 | 0.1  | 0.1  | NE   |
| L | 344   | 7,792  | 7,378  | -5.3 | 852.0   | 9.1  | 8.7  | NE   |
| L | 345   | 7,947  | 9,333  | 17.4 | 355.6   | 22.3 | 26.2 | NE   |
| L | 346   | 1,397  | 1,380  | -1.2 | 453.7   | 3.1  | 3.0  | NE   |
| L | 347   | 10,557 | 9,980  | -5.5 | 530.8   | 19.9 | 18.8 | NE   |
| L | 348   | 14,902 | 14,541 | -2.4 | 967.7   | 15.4 | 15.0 | NE   |
| L | 349   | 7,002  | 6,781  | -3.2 | 483.3   | 14.5 | 14.0 | NE   |
| L | 351   | 3,808  | 4,515  | 18.6 | 243.6   | 15.6 | 18.5 | NE   |
| L | 352   | 4,580  | 4,481  | -2.2 | 461.8   | 9,9  | 9.7  | NE   |
| L | 353   | 10,742 | 10,412 | -3.1 | 757.1   | 14.2 | 13.8 | NE   |
| L | 354   | 31     | 31     | 0.0  | 1,889.9 | 0.0  | 0.0  | NE   |
| L | 355   | 6,953  | 6,402  | -7.9 | 576.0   | 12.1 | 11.1 | NE   |
| L | 356   | 8,376  | 8,874  | 5.9  | 850.0   | 9.9  | 10.4 | NE - |
| L | 357   | 8,670  | 8,740  | 0.8  | 530.3   | 16.3 | 16.5 | NE   |
| L | 358   | 6,113  | 5,664  | -7.3 | 434.7   | 14.1 | 13.0 | NE   |
| L | 359   | 5,454  | 6,241  | 14.4 | 558.5   | 9.8  | 11.2 | NE   |
| L | 360   | 3,061  | 3,219  | 5.2  | 575.3   | 5.3  | 5.6  | NE   |
| L | 361   | 4,046  | 3,742  | -7.5 | 300.0   | 13.5 | 12.5 | NE   |
| L | 362   | 17,971 | 17,385 | -3.3 | 904.6   | 19.9 | 19.2 | NE   |
|   |       |        |        |      |         |      |      |      |

| L         | 363      | 15,723  | 14,767  | -6.1        | 1,336.8               | 11.8         | 11.0          | NE |
|-----------|----------|---------|---------|-------------|-----------------------|--------------|---------------|----|
| L         | 364      | 547     | 522     | -4.6        | 1,072.7               | 0.5          | 0.5           | NE |
| L         | 365      | 9,336   | 10,576  | 13.3        | 888.3                 | 10.5         | 11.9          | NE |
| Subtotal: |          | 760,451 | 750,751 | -1.3        | 42,959.3              | 17.7         | 17.5          |    |
| Α         | 1        | 2,073   | 2,951   | 42.4        | 175.2                 | 11.8         | 16.8          | SE |
| Α         | 2        | 1,403   | 1,480   | 5.5         | 100.6                 | 13.9         | 14.7          | SE |
| Α         | 4 (35%)  | 1,122   | 936     | -16.6       | 45.2                  | 24.8         | 20.7          | SE |
| Α         | 5        | 1,055   | 1,406   | 33.3        | 106.5                 | 9.9          | 13.2          | SE |
| Α         | 6        | 349     | 342     | -2.0        | 42.3                  | 8.3          | 8.1           | SE |
| Α         | 7 (50%)  | 1,535   | 1,708   | 11.3        | 31.0                  | 49.5         | <b>5</b> 5.1  | SE |
| Α         | 8 (50%)  | 3,819   | 3,707   | -2.9        | 49.6                  | 77.0         | 74.7          | SE |
| Α         | 9        | 4,234   | 4,434   | 4.7         | 64.7                  | 65.4         | 68.5          | SE |
| Α         | 10       | 5,715   | 6,158   | 7.8         | 174.2                 | 32.8         | 35.4          | SE |
| Α         | 11       | 5,594   | 5,376   | -3.9        | 91.9                  | 60.9         | 5 <b>8</b> .5 | SE |
| Α         | 12 (45%) | 3,803   | 3,879   | 2.0         | 71.4                  | 53.3         | 54.3          | SE |
| Α         | 366      | 400     | 400     | 0. <b>0</b> | <b>2</b> 50. <b>8</b> | 1.6          | 1.6           |    |
| Α         | 366.99*  | 31      | 31      | 0.0         | N/A                   | N/A          | N/A           |    |
| В         | 14 (30%) | 1,129   | 1,182   | 4.7         | 23.8                  | 47.4         | 49.7          | SE |
| В         | 15       | 2,537   | 2,568   | 1.2         | 58.6                  | 43.3         | <b>43.8</b>   | SE |
| в         | 16       | 1,943   | 2,430   | 25.1        | 49.4                  | 39.3         | 49.2          | SE |
| В         | 17       | 2,493   | 2,951   | 18.4        | 50.7                  | 49.2         | 58.2          | SE |
| В         | 18       | 3,247   | 3,089   | -4.9        | 59.3                  | 54. <b>8</b> | 52.1          | SE |
| В         | 19 (35%) | 847     | 666     | -21.4       | 28.5                  | 29.7         | 23.4          | SE |
| В         | 21 (80%) | 2,109   | 2,062   | -2.2        | 47.0                  | 44.9         | 43.9          | SE |
| В         | 22 (90%) | 1,976   | 1,947   | -1,5        | 53.2                  | 37.1         | 36.6          | SE |
| В         | 23       | 2,529   | 2,375   | -6.1        | 52.6                  | 48.1         | 45.2          | SE |
| В         | 24       | 4,311   | 4,125   | -4.3        | 132.0                 | 32.7         | 31.3          | SE |
| В         | 25       | 3,435   | 2,849   | -17.1       | 98.6                  | 34.8         | 28.9          | SE |
| В         | 26       | 0       | 0       | 0.0         | 113.7                 | 0.0          | 0.0           | SE |
| В         | 27       | 7,365   | 6,825   | -7.3        | <b>146</b> .5         | 50.3         | 46.6          | SE |
| В         | 28       | 8,968   | 8,714   | -2.8        | 146.0                 | 61.4         | 59. <b>7</b>  | SE |
| В         | 29       | 4,017   | 3,535   | -12.0       | 89.7                  | 44.8         | 39.4          | SE |

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| в | 30 (40%)           | 3,346  | 3,464  | 3.5   | 47,0         | 71.2         | 73.7         | SE |
|---|--------------------|--------|--------|-------|--------------|--------------|--------------|----|
| В | 39 (5%)            | 593    | 558    | -5.9  | 11.1         | 53.4         | 50.3         | SE |
| В | 40                 | 9,447  | 8,723  | -7.7  | 160.1        | <b>59</b> .0 | 54.5         | SE |
| В | 41                 | 13,326 | 12,621 | -5.3  | 191.8        | 69.5         | 65.8         | SE |
| В | 42                 | 11,081 | 10,791 | -2.6  | 198.4        | 55.9         | 54.4         | SE |
| В | 43                 | 46     | 75     | 100.0 | 466.5        | 0.1          | 0.2          | SE |
| В | 43.99 *            | 0      | 0      | 0.0   | N/A          | N/A          | N/A          | SE |
| В | 44                 | 1,078  | 1,003  | -7.0  | 142.6        | 7.6          | 7.0          | SE |
| В | 45                 | 3,255  | 3,111  | -4.4  | 123.3        | 26.4         | 25.2         | SE |
| В | 48                 | 526    | 477    | -9.3  | 112.2        | 4.7          | 4.3          | SE |
| В | 49                 | 0      | 0      | 0.0   | 1,092.9      | 0.0          | 0.0          | SE |
| В | 50 (60%)           | 1,337  | 1,285  | -3.9  | 666.0        | 2.0          | 1.9          | SE |
| В | 50.99(60%)*        | 1,372  | 1,156  | -15.7 | N/A          | N/A          | N/A          | SE |
| Е | 125 (40%)          | 1,445  | 1,479  | 2.4   | <b>8</b> 2.9 | 17.4         | 17.8         | SE |
| Е | 126                | 635    | 784    | 23.5  | 90.7         | 7.0          | <b>8</b> .6  | SE |
| Е | 127                | 399    | 416    | 4.3   | 83.3         | 4.8          | 5.0          | SE |
| Е | 128                | 163    | 220    | 35.0  | 63.5         | 2.6          | 3.5          | SE |
| Е | 129                | 430    | 552    | 28.4  | 89.5         | 4.8          | 6.2          | SE |
| Е | 130                | 1,009  | 1,117  | 10.7  | 51.4         | 19.6         | 21.7         | SE |
| Е | 131                | 2,200  | 1,988  | -9.6  | 79.1         | 27.8         | 25.1         | SE |
| Е | 132                | 4,166  | 3,604  | -13.5 | 107.0        | 38.9         | 33.7         | SE |
| Е | 133                | 2,264  | 1,990  | -12.1 | 88.7         | 25.5         | 22.4         | SE |
| Е | 134 (50%)          | 2,701  | 2,648  | -2.0  | 52.9         | 51.1         | 50.1         | SE |
| Е | 135 (95%)          | 3,540  | 3,652  | 3.2   | 95.3         | 37.1         | 38.3         | SE |
| Е | 1 <b>36 (</b> 10%) | 588    | 560    | -4.8  | 10.0         | <b>58.8</b>  | <b>56</b> .0 | SE |
| Е | 137(50%)           | 3,287  | 3,119  | -5.1  | 75:0         | 43.8         | 41.6         | SE |
| Ε | 138 (90%)          | 2,647  | 2,337  | -11.7 | 78.3         | 33.8         | 29.8         | SE |
| Е | 139                | 4,785  | 4,298  | -10.2 | 140.1        | 34.2         | 30.7         | SE |
| E | 140                | 3,594  | 3,122  | -13.1 | 105.5        | 34.1         | 29.6         | SE |
| Ε | 141                | 2,768  | 2,434  | -12.1 | 141.3        | 19.6         | 17.2         | SE |
| Е | 142                | 2,190  | 2,191  | 0.0   | 196.2        | 11.2         | 11.2         | SE |
| Е | 144                | 3,331  | 3,369  | 1.1   | 154.2        | 21.6         | 21.8         | SE |
| Е | 145                | 2,006  | 1,708  | -14.9 | 80.1         | 25.0         | 21.3         | SE |
| Е | 146                | 3,322  | 3,081  | -7.3  | 112.7        | 29.5         | 27.3         | SE |

| Е | 147       | 2,437  | 1,895  | -22.2 | 85.5  | 28.5 | 22.2 | SE |
|---|-----------|--------|--------|-------|-------|------|------|----|
| Ε | 148       | 1,278  | 1,058  | -17.2 | 47.2  | 27.1 | 22.4 | SE |
| Е | 149       | 5,834  | 5,397  | -7.5  | 110.0 | 53.0 | 49.1 | SE |
| Ε | 151 (75%) | 6,911  | 6,407  | -7.3  | 140.3 | 49.3 | 45.7 | SE |
| Ε | 152       | 8,134  | 6,827  | -16.1 | 161.9 | 50.2 | 42.2 | SE |
| Е | 153       | 3,621  | 2,970  | -18.0 | 113.7 | 31.8 | 26.1 | SE |
| Ε | 154       | 1,819  | 1,851  | 1.8   | 76.8  | 23.7 | 24.1 | SE |
| Ε | 155       | 3,413  | 2,951  | -13.5 | 104.0 | 32.8 | 28.4 | SE |
| Е | 156       | 2,386  | 2,192  | -8.1  | 106.0 | 22.5 | 20.7 | SE |
| Е | 157       | 2,764  | 2,893  | 4.7   | 122.3 | 22.6 | 23.7 | SE |
| Ε | 162       | 2,858  | 2,554  | -10.6 | 86.2  | 33.2 | 29.6 | SE |
| Ε | 163       | 4,147  | 4,168  | 0.5   | 139.6 | 29.7 | 29.9 | SE |
| Е | 164 (95%) | 5,310  | 5,105  | -3.9  | 112.5 | 47.2 | 45.4 | SE |
| Ε | 165       | 3,870  | 3,323  | -14.1 | 99.1  | 39.1 | 33.5 | SE |
| Ε | 166       | 1,475  | 1,332  | -9.7  | 63.3  | 23.3 | 21.0 | SE |
| Ε | 167       | 8,509  | 7,670  | -9.9  | 151.2 | 56.3 | 50.7 | SE |
| Ε | 168       | 5,370  | 5,155  | -4.0  | 142.8 | 37.6 | 36.1 | SE |
| Ε | 169 (40%) | 4,911  | 4,507  | -8.2  | 106.6 | 46.1 | 42.3 | SE |
| F | 170 (45%) | 1,767  | 1,666  | -5.7  | 176.6 | 10.0 | 9.4  | SE |
| F | 171 (20%) | 1,055  | 991    | -6.1  | 56.6  | 18.6 | 17.5 | SE |
| F | 172 (30%) | 2,993  | 2,828  | -5.5  | 41.5  | 72.1 | 68.1 | SE |
| F | 175 (55%) | 4,955  | 4,828  | -2.6  | 97.2  | 51.0 | 49.7 | SE |
| F | 176       | 11,464 | 12,055 | 5.2   | 243.6 | 47.1 | 49.5 | SE |
| F | 195 (40%) | 3,483  | 3,612  | 3.7   | 77.5  | 44.9 | 46.6 | SE |
| F | 202 (20%) | 1,220  | 1,119  | -8.3  | 37.8  | 32.3 | 29.6 | SE |
| F | 205 (15%) | 519    | 540    | 4.0   | 53.1  | 9.8  | 10.2 | SE |
| G | 143       | 1,470  | 1,445  | -1.7  | 136.9 | 10.7 | 10.6 | SE |
| G | 158       | 6,059  | 5,748  | -5.1  | 147.0 | 41.2 | 39.1 | SE |
| G | 159       | 1,765  | 1,701  | -3.6  | 171.5 | 10.3 | 9.9  | SE |
| G | 160       | 7,973  | 7,841  | -1.7  | 176.4 | 45.2 | 44.5 | SE |
| G | 161       | 6,034  | 5,834  | -3.3  | 172.0 | 35.1 | 33.9 | SE |
| G | 177 (80%) | 6,878  | 6,731  | -2.1  | 141.1 | 48.7 | 47.7 | SE |
| G | 178 (25%) | 1,563  | 1,498  | -4.2  | 41.9  | 37.3 | 35.8 | SE |
| 1 | 206 (70%) | 1,124  | 1,051  | -6.5  | 222.5 | 5.1  | 4.7  | SE |

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| 1         | 207 (10%)        | 679     | 696     | 2.5   | 35.2              | 19.3         | 19.8         | SE |
|-----------|------------------|---------|---------|-------|-------------------|--------------|--------------|----|
| l I       | 208 (40%)        | 605     | 554     | -8.4  | 88.7              | 6.8          | 6.2          | SE |
| 1         | 223 (55%)        | 206     | 199     | -3.4  | 754.8             | 0.3          | 0.3          | SE |
| L         | 228 (10%)        | 145     | 140     | -3.4  | 17.4              | 8.3          | 8.0          | SE |
| L         | 229 (90%)        | 288     | 333     | 15.6  | 266.7             | 1.1          | 1.2          | SE |
| I         | 230              | 434     | 393     | -9.4  | 308.4             | 1.4          | 1.3          | SE |
| I         | 231              | 1,293   | 1,280   | -1.0  | 210.0             | 6.2          | 6.1          | SE |
| I         | 232              | 870     | 993     | 14.1  | 193.7             | 4.5          | 5.1          | SE |
| I         | 233              | 3,243   | 3,076   | -5.1  | 147.5             | 22.0         | 20.9         | SE |
| I         | 234              | 574     | 552     | -3.8  | 200.2             | 2.9          | 2.8          | SE |
| F         | 235              | 1,182   | 1,101   | -6.9  | 196.4             | 6.0          | 5.6          | SE |
| I         | 236              | 2,636   | 2,511   | -4.7  | 241.7             | 10.9         | 10.4         | SE |
| 1         | 237 (60%)        | 3,209   | 3,085   | -3.9  | 160.4             | 20.0         | 19.2         | SE |
| I         | 238 (75%)        | 3,487   | 3,388   | -2.8  | 146.2             | 23.9         | 23.2         | SE |
| 1         | 239              | 1,702   | 1,608   | -5.5  | 121.1             | 14.1         | 13.3         | SE |
| l I       | 240 (70%)        | 2,935   | 3,005   | 2.4   | 107.1             | 27.4         | 28.1         | SE |
| 1         | 241 (25%)        | 374     | 393     | 5.1   | 25.3              | 14.8         | 15.5         | SE |
| I         | 255 (5%)         | 145     | 143     | -1.4  | 9.6               | 15.1         | 14.9         | SE |
| 1         | 256 (80%)        | 2,377   | 2,406   | 1.2   | 171.8             | 13.8         | 14.0         | SE |
| 1         | 257              | 3,448   | 3,409   | -1.1  | 183.4             | 18.8         | 18.6         | SE |
| J         | <b>258 (45%)</b> | 827     | 776     | -6.2  | 64.9              | 12.7         | 12.0         | SE |
| J         | 259 (35%)        | 1,929   | 1,887   | -2.2  | 47.3              | 40.8         | 39.9         | SE |
| Subtotal: |                  | 338,873 | 325,730 | -3.9  | 1 <b>5,202.</b> 6 | 22.3         | <b>21.</b> 4 |    |
| Α         | 3                | 2,427   | 2,635   | 8.6   | 139:1             | 17.4         | 18.9         | sw |
| Α         | 4 (65%)          | 2,084   | 1,736   | -16.7 | 84.0              | 24.8         | 20.7         | SW |
| Α         | 7 (50%)          | 1,534   | 1,707   | 11.3  | 31.0              | 49.5         | 55.1         | SW |
| Α         | 8 (50%)          | 3,818   | 3,707   | -2.9  | 49.5              | 77.1         | 74.9         | SW |
| Α         | 12 (55%)         | 4,649   | 4,741   | 2.0   | 87.2              | 53 <b>.3</b> | 54.4         | SW |
| В         | 13               | 4,520   | 4,243   | -6.1  | 177.7             | 25.4         | 23.9         | SW |
| В         | 14 (70%)         | 2,634   | 2,759   | 4.7   | 55.5              | 47.5         | 49.7         | SW |
| В         | 19 (65%)         | 1,572   | 1,236   | -21.4 | 63.0              | 29.7         | 23.3         | SW |
| В         | 20               | 2,516   | 2,459   | -2.3  | 71.9              | 35.0         | 34.2         | SW |

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| В | 21 (20%)        | 52 <b>7</b> | 515    | -2.3   | 11,8    | 44.7 | 43.6 | SW |
|---|-----------------|-------------|--------|--------|---------|------|------|----|
| В | 22 (10%)        | 219         | 216    | -1.4   | 5.9     | 37.1 | 36.6 | SW |
| В | <b>30 (60%)</b> | 5,018       | 5,196  | 3.5    | 70.6    | 71.1 | 73.6 | SW |
| В | 31              | 5,902       | 5,701  | -3.4   | 97.6    | 60.5 | 58.4 | SW |
| В | 32              | 6,147       | 5,814  | -5.4   | 122.3   | 50.3 | 47.5 | SW |
| В | 33              | 6,128       | 5,647  | -7.8   | 185.6   | 33.0 | 30.4 | SW |
| В | 34              | 466         | 428    | -8.2   | 146.5   | 3.2  | 2.9  | SW |
| В | 35              | 95          | 83     | -12.6  | 406.7   | 0.2  | 0.2  | SW |
| В | 36              | 7,429       | 7,330  | -1.3   | 220.4   | 33.7 | 33.3 | SW |
| В | 37              | 10,373      | 10,163 | -2.0   | 151.7   | 68.4 | 67.0 | SW |
| В | 38.99           | 4,092       | 3,861  | -5.6   | 171.7   | 23.8 | 22.5 | SW |
| В | 39 (95%)        | 11,260      | 10,601 | -5.9   | 211.0   | 53.4 | 50.2 | SW |
| В | 46              | 2,391       | 2,112  | -11.7  | 923.4   | 2.6  | 2.3  | SW |
| В | 47.98           | 4,370       | 4,285  | -1.9   | 205.6   | 21.3 | 20.8 | SW |
| В | 50 (40%)        | 892         | 856    | -4.0   | 444.0   | 2.0  | 1.9  | SW |
| В | 50.99(40%)*     | 915         | 771    | -15,7  | N/A     | N/A  | N/A  | SW |
| В | 51              | 1,165       | 1,270  | 9.0    | 596.3   | 2.0  | 2.1  | SW |
| С | 52              | 53          | 67     | 26.4   | 2,140.7 | 0.0  | 0.0  | SW |
| С | 54              | 1,271       | 1,493  | 17.5   | 436.6   | 2.9  | 3.4  | SW |
| C | 55              | 6,293       | 6,397  | 1.7    | 296.5   | 21.2 | 21.6 | SW |
| С | 56              | 1,217       | 1,209  | -0.7   | 207.6   | 5.9  | 5.8  | SW |
| С | 57              | 3           | 0      | -100.0 | 318.5   | 0.0  | 0.0  | SW |
| С | 58              | 32          | 52     | 100.0  | 838.9   | 0.0  | 0.1  | SW |
| С | 59              | 0           | 0      | 0.0    | 96.4    | 0.0  | 0.0  | SW |
| С | 60              | 6,554       | 6,480  | -1.1   | 268.6   | 24.4 | 24.1 | SW |
| С | 61              | 3,146       | 2,978  | -5.3   | 132.0   | 23.8 | 22.6 | SW |
| С | 62              | 4,038       | 3,953  | -2.1   | 124.8   | 32.4 | 31.7 | SW |
| С | 63              | 4,709       | 4,730  | 0.4    | 137.1   | 34.3 | 34.5 | SW |
| С | 64 ·            | 4,512       | 4,374  | -3.1   | 163.8   | 27.5 | 26.7 | SW |
| С | 65              | 6,283       | 6,137  | -2.3   | 286.4   | 21.9 | 21.4 | SW |
| С | 66              | 4,218       | 4,251  | 0.8    | 162.1   | 26.0 | 26.2 | SW |
| С | 67              | 6,431       | 6,159  | -4.2   | 248.3   | 25.9 | 24.8 | SW |
| С | 68              | 0           | 0      | 0.0    | 225.4   | 0.0  | 0.0  | SW |
| С | 69              | 2,520       | 2,324  | -7.8   | 150.2   | 16.8 | 15.5 | SW |

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| C | 70  | 5,374  | 5,275  | <b>-1.8</b> | 115.9 | 46.4 | 45.5 | SW |
|---|-----|--------|--------|-------------|-------|------|------|----|
| С | 71  | 9,952  | 9,859  | -0.9        | 165.6 | 60.1 | 59.5 | SW |
| С | 72  | 6,112  | 5,963  | -2.4        | 120.8 | 50.6 | 49.4 | SW |
| С | 73  | 3,722  | 3,506  | -5.8        | 96.6  | 38.5 | 36.3 | SW |
| С | 74  | 5,445  | 5,233  | -3.9        | 167.0 | 32.6 | 31.3 | SW |
| С | 75  | 0      | 0      | 0.0         | 123.1 | 0.0  | 0.0  | SW |
| D | 76  | 416    | 389    | -6.5        | 248.3 | 1.7  | 1.6  | SW |
| D | 77  | 2,253  | 2,236  | -0.8        | 80.3  | 28.1 | 27.8 | SW |
| D | 78  | 4,776  | 4,498  | -5.8        | 107.2 | 44.6 | 42.0 | SW |
| D | 79  | 4,729  | 4,565  | -3.5        | 93.2  | 50.7 | 49.0 | SW |
| D | 80  | 5,031  | 4,746  | -5.7        | 105.8 | 47.6 | 44.9 | SW |
| D | 81  | 9,314  | 8,902  | -4.4        | 152.0 | 61.3 | 58.6 | SW |
| D | 82  | 8,020  | 7,527  | -6.1        | 206.1 | 38.9 | 36.5 | SW |
| D | 83  | 10,336 | 10,029 | -3.0        | 232.8 | 44.4 | 43.1 | SW |
| D | 84  | 5,286  | 5,161  | -2.4        | 122.8 | 43.0 | 42.0 | SW |
| D | 85  | 7,761  | 7,623  | -1.8        | 154.2 | 50.3 | 49.4 | SW |
| D | 86  | 6,685  | 6,837  | 2.3         | 154.9 | 43.2 | 44.1 | SW |
| D | 87  | 7,249  | 7,410  | 2.2         | 133.2 | 54.4 | 55.6 | SW |
| D | 88  | 9,190  | 9,600  | 4.5         | 140.6 | 65.4 | 68.3 | SW |
| D | 89  | 2,786  | 2,904  | 4.2         | 216.0 | 12.9 | 13.4 | SW |
| D | 90  | 4,473  | 5,070  | 13.3        | 110.2 | 40.6 | 46.0 | SW |
| D | 91  | 2,968  | 3,125  | 5.3         | 103.5 | 28.7 | 30.2 | SW |
| D | 92  | 3,197  | 3,098  | -3.1        | 127.3 | 25.1 | 24.3 | SW |
| D | 93  | 4,922  | 4,784  | -2.8        | 99.6  | 49.4 | 48.0 | SW |
| D | 94  | 4,226  | 4,255  | 0.7         | 92.2  | 45.8 | 46.1 | SW |
| D | 95  | 3,877  | 3,745  | -3.4        | 80:1  | 48.4 | 46.8 | SW |
| D | 96  | 4,915  | 4,798  | -2.4        | 101.3 | 48.5 | 47.4 | SW |
| D | 97  | 89     | 118    | 32.6        | 527.1 | 0.2  | 0.2  | SW |
| D | 98  | 7,271  | 7,146  | -1.7        | 223.4 | 32.5 | 32.0 | SW |
| D | 99  | 366    | 364    | -0.5        | 50.9  | 7.2  | 7.2  | SW |
| D | 100 | 3,882  | 3,599  | -7.3        | 136.6 | 28.4 | 26.3 | SW |
| D | 101 | 6,389  | 6,192  | -3.1        | 149.0 | 42.9 | 41.6 | SW |
| D | 102 | 3,231  | 3,262  | 1.0         | 88.5  | 36.5 | 36.9 | SW |
| D | 103 | 2,933  | 2,843  | -3.1        | 71.2  | 41.2 | 39.9 | SW |
|   |     |        |        |             |       |      |      |    |

| D | 104       | 4,251 | 4,171 | -1.9  | 116.6   | 36.5             | 35.8 | SW |  |
|---|-----------|-------|-------|-------|---------|------------------|------|----|--|
| D | 105       | 4,535 | 4,213 | -7.1  | 165.1   | 27.5             | 25.5 | SW |  |
| D | 106       | 1,622 | 1,467 | -9.6  | 64.0    | 25.3             | 22,9 | ŚW |  |
| D | 107       | 4,166 | 3,946 | -5,3  | 114,4   | 36.4             | 34,5 | SW |  |
| D | 108       | 4,727 | 4,183 | -11.5 | 132.7   | 35.6             | 31.5 | SW |  |
| D | 109       | 2,503 | 2,242 | -10.4 | 63.8    | 39.2             | 35.1 | SW |  |
| D | 110       | 4,591 | 4,534 | -1,2  | 119.8   | 38.3             | 37.8 | SW |  |
| D | 111       | 5,333 | 5,190 | -2,7  | 325.9   | 16.4             | 15.9 | SW |  |
| D | 112       | 6,547 | 6,580 | 0,5   | 125.0   | 52.4             | 52.6 | SW |  |
| D | 113       | 3,545 | 3,446 | -2,8  | 85.3    | 41.6             | 40.4 | SW |  |
| D | 114       | 7,232 | 7,168 | -0.9  | 240.7   | 30.0             | 29.8 | SW |  |
| D | 115       | 3,776 | 3,525 | -6.6  | 88.5    | 42.7             | 39.8 | SW |  |
| D | 116       | 2,997 | 2,882 | -3.8  | 185.1   | 16.2             | 15.6 | SW |  |
| D | 117       | 2,088 | 1,763 | -15.6 | 164.1   | 12.7             | 10.7 | SW |  |
| D | 118       | 7,059 | 6,919 | -2.0  | 232.3   | 30.4             | 29.8 | SW |  |
| D | 119       | 6,302 | 6,478 | 2.8   | 172.5   | 36.5             | 37.6 | SW |  |
| D | 120       | 1,781 | 1,832 | 2,9   | 148.0   | 12.0             | 12,4 | SW |  |
| D | 121       | 3,007 | 3,037 | 1.0   | 221,2   | 13.6             | 13.7 | SW |  |
| D | 122       | 6,955 | 7,001 | 0.7   | 353.4   | 19.7             | 19.8 | SW |  |
| D | 123       | 117   | 119   | 1.7   | 1,362.5 | 0,1              | 0.1  | SW |  |
| D | 124       | 8     | 7     | 100.0 | 298.7   | 0.0              | 0.0  | SW |  |
| Ε | 125 (60%) | 2,167 | 2,218 | 2.4   | 124.4   | 17.4             | 17.8 | SW |  |
| Е | 134 (50%) | 2,700 | 2,647 | -2.0  | 52.9    | 51.0             | 50.0 | SW |  |
| Ε | 135 (5%)  | 186   | 192   | 3.2   | 5.0     | 37.2             | 38.4 | SW |  |
| Е | 136 (90%) | 5,294 | 5,044 | -4.7  | 89.8    | 59.0             | 56.2 | SW |  |
| Ε | 137 (50%) | 3,286 | 3,118 | -5,1  | 75.0    | 43.8             | 41.6 | SW |  |
| Е | 138 (10%) | 294   | 260   | -11.6 | 8.7     | 33.8             | 29.9 | SW |  |
| Ε | 150       | 97    | 152   | 56.7  | 588.8   | 0.2              | 0.3  | SW |  |
| Е | 151 (25%) | 2,304 | 2,136 | -7.3  | 46.8    | 49.2             | 45,6 | SW |  |
| E | 169 (60%) | 7,367 | 6,761 | -8.2  | 160.0   | 46.0             | 42.3 | SW |  |
| F | 170 (55%) | 2,160 | 2,036 | -5.7  | 215.8   | 10. <del>0</del> | 9.4  | SW |  |
| F | 171 (75%) | 3,957 | 3,716 | -6.1  | 212.3   | 18.6             | 17.5 | SW |  |
| F | 172 (70%) | 6,983 | 6,598 | -5.5  | 96.9    | 72.1             | 68.1 | SW |  |
| F | 202 (10%) | 611   | 560   | -8.3  | 18.8    | 32.5             | 29.8 | SW |  |

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| Total:    |           | 1,585,577 | 1,551,188 | -2.2         | 86,483.7      | 18.3         | 17.9         |    |
|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|----|
| Subtotal: |           | 486,253   | 474,707   | -2.4         | 28,321.8      | 17.2         | 16.8         |    |
| 1         | 229 (10%) | 32        | 37        | 15.6         | 29.6          | 1.1          | 1.3          | SW |
| I         | 228 (90%) | 1,302     | 1,260     | -3.2         | 156.8         | 8.3          | 8.0          | SW |
| 1         | 227       | 1,423     | 1,514     | 6.4          | . 141.6       | 10.0         | 10.7         | SW |
| 1         | 226       | 472       | 452       | -4.2         | 152.5         | 3.1          | 3.0          | SW |
| 1         | 225       | 506       | 536       | 5.9          | 221.7         | 2.3          | 2.4          | SW |
| I         | 224       | 335       | 321       | -4.2         | 160.4         | 2.1          | 2.0          | SW |
| I         | 223 (45%) | 168       | 162       | -3.6         | 617.6         | 0.3          | 0.3          | SW |
| ł         | 208 (60%) | 908       | 831       | -8.5         | 133.0         | 6.8          | 6.2          | SW |
| 1         | 207 (90%) | 6,114     | 6,268     | 2.5          | 317.2         | 19.3         | <b>19</b> .8 | SW |
| 1         | 206 (20%) | 321       | 300       | -6.5         | <b>63</b> .5  | 5.1          | 4.7          | SW |
| Н         | 222       | 1,555     | 1,787     | 14.9         | 505.3         | 3.1          | 3.5          | SW |
| Н         | 221       | 1,167     | 1,135     | -2.7         | 161.9         | 7.2          | 7.0          | SW |
| Н         | 220       | 1,600     | 1,845     | 15.3         | 719.1         | 2.2          | 2.6          | SW |
| Н         | 219       | 1,404     | 1,373     | -2.2         | 382.3         | 3.7          | 3.6          | SW |
| Н         | 218       | 4,053     | 3,983     | -1.7         | 250.8         | 16.2         | <b>15.9</b>  | SW |
| Н         | 217       | 6,376     | 6,098     | -4.4         | 388.7         | 16.4         | 15.7         | SW |
| Н         | 216       | 1,464     | 1,476     | 0.8          | 432.9         | 3.4          | 3.4          | SW |
| Н         | 215       | 3,542     | 3,390     | -4.3         | 270.1         | 13.1         | 12.6         | SW |
| Н         | 214       | 3,867     | 3,629     | -6.2         | 157.2         | 24.6         | 23.1         | SW |
| Н         | 213       | 3,830     | 3,673     | -4.1         | 134.4         | 28.5         | 27.3         | SW |
| Н         | 212       | 2,474     | 2,380     | -3.8         | 122.3         | 20.2         | 19.5         | SW |
| Н         | 211       | 2,608     | 2,462     | -5. <b>6</b> | 134 <b>.9</b> | <b>19.</b> 3 | 18.3         | SW |
| Н         | 210       | 5,505     | 5,417     | -1.6         | 210.5         | 26.2         | 25.7         | SW |
| н         | 209       | 3,080     | 2,899     | -5 <b>.9</b> | 131.5         | 23.4         | 22.0         | SW |

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\* Population living on boats, adjacent to tract

\$ One house, minimal acerage

Projections obtained from National Planning Data Corporation (1991)

#### City of Philadelphia 1980-1990 Census Data Comparison Summary Chart

|                                 |                             | Population                  |                              |                  |                                   |                                   | Housing                      |                                               |                                               |
|---------------------------------|-----------------------------|-----------------------------|------------------------------|------------------|-----------------------------------|-----------------------------------|------------------------------|-----------------------------------------------|-----------------------------------------------|
| Planning<br>Analysis<br>Section | 1980<br>Total<br>Population | 1990<br>Total<br>Population | Percent<br>Change<br>80 - 90 | Totál<br>Acreage | 1980<br>Total<br>Housing<br>Units | 1990<br>Total<br>Housing<br>Units | Percent<br>Change<br>80 - 90 | 1980<br>Housing<br>Density<br>Persons/<br>EDU | 1990<br>Housing<br>Density<br>Persons/<br>EDU |
| Α                               | 43,552                      | 45,645                      | 4.8                          | 1,594            | 30,370                            | 33,816                            | 11.3                         | 1.4                                           | 1.3                                           |
| 8                               | 188,318                     | 170,944                     | -9.2                         | 8,691            | 78,522                            | 74,987                            | -4.5                         | 2.4                                           | 2.3                                           |
| С                               | 86,328                      | 81,885                      | -5.1                         | 7,023            | 32,156                            | 31,433                            | -2.2                         | 2.7                                           | 2.6                                           |
| D                               | 232,979                     | 219,713                     | -5.7                         | 8,888            | 97,226                            | 94,940                            | -2.4                         | 2.4                                           | 2.3                                           |
| Ē                               | 170,611                     | 146,491                     | -14.1                        | 5,104            | 71,711                            | 65,770                            | -8.3                         | 2.4                                           | 2.2                                           |
| F                               | 113,693                     | 106,045                     | -6.7                         | 3,827            | 43,855                            | 39,406                            | -10.1                        | 2.6                                           | 2.7                                           |
| G                               | 100,865                     | 94,715                      | -6.1                         | 5,030            | 40,886                            | 39,587                            | -3.2                         | 2.5                                           | 2.4                                           |
| Н                               | 45,440                      | 42,525                      | -6.4                         | 4,002            | 18,247                            | 19,430                            | 6.5                          | 2.5                                           | 2.2                                           |
| I                               | 110,455                     | 103,266                     | -6.5                         | 8,367            | 48,224                            | 46,851                            | -2.8                         | 2.3                                           | 2.2                                           |
| ł                               | 184,039                     | 176,550                     | -4.1                         | 5,584            | 68,024                            | 66,428                            | -2.3                         | 2.7                                           | 2.7                                           |
| к                               | 248,559                     | 237,251                     | -4.5                         | 11,352           | 99,929                            | 100,289                           | 0.4                          | 2.5                                           | 2.4                                           |
| L                               | 163,371                     | 160,547                     | -1.7                         | 17,021           | 55,981                            | 61,962                            | 10.7                         | 2.9                                           | 2.6                                           |
| Total:                          | 1,688,210                   | 1,585,577                   | -6.1                         | 86,483           | 685,131                           | 674,899                           | 2.5                          | 2.3                                           | 2,3                                           |

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> City of Philadelphia 1980-1990 Census Data Comparison

Housing Population 1980 1990 1980 1990 Housing Housing WWTP Planning Total 1980 1990 Percent Total Percent Density Density Analysis Tract Total Total Change Housing Change Persons Service Housing Person Acres Section Population EDU No. Population 80 - 90 Units Units 80 - 90 EDU Area Α 656 2,073 216.0 425 291.8 1.2 175.2 SE 1 1,665 1.5 SE 1.403 22.0 522 -16.3 3.2 А 2 1,150 437 2.2 100.6 SW 12.4 18.0 1.6 3 2,160 2,427 1,388 1.5 А 1.638 139.1 А 4 4,533 3,206 -29.3 -19.0 1.3 1.2 129.2 SE/SW 3,365 2,726 SE 1.055 128.9 1.3 A 5 461 432 806 86.6 1.1 106.5 SE 349 25,1 14.6 6 279 199 228 1.5 42.3 А 1.4 SE А 7 2,448 3,069 25.4 1,910 2,334 22.2 1.3 1.3 62.0 SE 8 8,110 7,637 -5.8 6,167 6,410 3.9 1.3 1.2 Α 99.1 SE 4,234 3,078 3,529 1.2 9 4,230 14.7 1.4 64.7 Α 0.1 SE Α 10 5,213 5,715 9.6 3,183 3,786 18.9 1.6 1.5 174.2 SE 5,993 5,594 -3.8 91.9 Α 11 -6.7 4,275 4,113 1.4 1.4 SE/SW 8,319 5,789 12 1.6 6.7 1.5 1.5 158.6 Α 8.452 5,426 SE Α 366 0 400 100.0 0 355 100.0 0.0 1.1 250.8 SE 100.0 N/A N/A N/A N/A N/A N/A А 366.99 \* 0 31 Subtotal: 43,552 30,370 33,816 11,3 1.3 1.594.2 45,645 4.8 1.4 SW В 4,520 -12.3 2,701 -12.5 177.7 13 5,152 2,363 1.9 1.9 В 3,469 3,763 8.5 2,148 -4.1 1.5 1.8 79.3 SE/SW 14 2,241 SE В 1.0 1,472 15 2,512 2,537 1,300 13.2 1.9 1.7 58.6 SE В 1,837 1,209 1,196 16 1,943 5.8 -1.1 1.5 1.6 49.4 SE В 17 2,149 2,493 1,236 1,522 23.1 1.6 50.7 16.0 1.7 SE В 3,625 1,704 18 3,247 -10.4 1,698 0.4 2.1 1.9 59.3

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| В   | 19      | 3,788  | 2,419  | -36.1  | 2,177          | 1,284 | -41.0            | 1.7 | 1.9 | 81.5          | SE/SW |
|-----|---------|--------|--------|--------|----------------|-------|------------------|-----|-----|---------------|-------|
| В   | 20      | 2,681  | 2,516  | -6.2   | 1,265          | 1,105 | -12.6            | 2.1 | 2.3 | 71.9          | ŚW    |
| В   | 21      | 2,814  | 2,636  | -6.3   | 1,356          | 1,205 | -11.1            | 2.1 | 2.2 | 58.8          | SE/SW |
| В   | 22      | 2,262  | 2,195  | -3.0   | 1,138          | 1,099 | -3.4             | 2.0 | 2.0 | 59.1          | SE/SW |
| В   | 23      | 2,908  | 2,529  | -13.0  | 1,330          | 1,237 | -7.0             | 2.2 | 2.0 | 52.6          | SE    |
| В   | 24      | 4,760  | 4,311  | -9.4   | 2,119          | 2,173 | 2.5              | 2.2 | 2.0 | 132.0         | SE    |
| В   | 25      | 4,960  | 3,435  | -30.7  | 2,058          | 2,033 | -1.2             | 2.4 | 1.7 | 98.6          | SE    |
| В   | 26      | 0      | 0      | 0.0    | 0              | 0     | 0.0              | 0.0 | 0.0 | 113.7         | SE    |
| В   | 27      | 8,576  | 7,365  | -14.1  | 3,705          | 3,328 | -10.2            | 2.3 | 2.2 | 146.5         | SE    |
| В   | 28      | 9,632  | 8,968  | -6.9   | 3,986          | 4,022 | 0.9              | 2.4 | 2.2 | 146.0         | SE    |
| В   | 29      | 5,163  | 4,017  | -22.2  | 2 <b>,2</b> 50 | 2,041 | -9.3             | 2.3 | 2.0 | 89.7          | SE    |
| В   | 30      | 8,090  | 8,364  | 3.4    | 3,444          | 3,403 | -1.2             | 2.3 | 2.5 | 117.6         | SE/SW |
| В   | 31      | 6,422  | 5,902  | -8.1   | 3,007          | 2,712 | -9.8             | 2.1 | 2.2 | 97.6          | ŚW    |
| В   | 32      | 6,926  | 6,147  | -11.2  | 2,672          | 2,403 | -10.1            | 2.6 | 2.6 | 122.3         | SW    |
| ́ В | 33      | 7,271  | 6,128  | -15.7  | 2,770          | 2,521 | -9.0             | 2.6 | 2.4 | 185.6         | SW    |
| В   | 34      | 557    | 466    | -16.3  | 246            | 200   | -18.7            | 2.3 | 2.3 | 146.5         | SW    |
| В   | 35      | 123    | 95     | -22.8  | 67             | 58    | -13.4            | 1.8 | 1.6 | 406.7         | SW    |
| В   | 36      | 7,813  | 7,429  | -4.9   | 3,248          | 3,057 | -5.9             | 2.4 | 2.4 | 220.4         | SW    |
| В   | 37      | 11,021 | 10,373 | -5.9   | 4,218          | 4,253 | 0.8              | 2.6 | 2.4 | 151.7         | SW    |
| В   | 38.99   | 4,640  | 4,092  | -11.8  | 1,753          | 1,707 | -2.6             | 2.6 | 2.4 | 171.7         | SW    |
| B   | 39      | 13,576 | 11,853 | -12.7  | 5,418          | 5,438 | 0.4              | 2.5 | 2.2 | 222.1         | SE/SW |
| В   | 40      | 11,188 | 9,447  | -15.6  | 4,427          | 4,365 | -1.4             | 2.5 | 2.2 | 160.1         | SE    |
| B   | 41      | 14,936 | 13,326 | -10.8  | 5,787          | 5,357 | -7.4             | 2.6 | 2.5 | 191.8         | SE    |
| В   | 42      | 11,763 | 11,081 | -5.8   | 4,191          | 4,211 | 0.5              | 2.8 | 2.6 | 198.4         | SE    |
| В   | 43      | 0      | 46     | 100.0  | 0              | 24    | 100.0            | 0.0 | 1.9 | 466.5         | SE    |
| В   | 43.99 * | 58     | 0      | -100.0 | N/A            | N/A   | N/A <sup>1</sup> | N/A | N/A | N/A           | SE    |
| B   | 44      | 1,253  | 1,078  | -14.0  | 479            | 443   | -7.5             | 2.6 | 2.4 | 142.6         | SE    |
| Β.  | 45      | 3,609  | 3,255  | -9.8   | 1,399          | 1,411 | 0.9              | 2.6 | 2.3 | 123.3         | SE    |
| В   | 46      | 3,072  | 2,391  | -22.2  | 1,014          | 799   | -21.2            | 3.0 | 3.0 | 923.4         | SE    |
| В   | 47.98   | 4,663  | 4,370  | -6.3   | 1,473          | 1,458 | -1.0             | 3.2 | 3.0 | 205.6         | SE    |
| В   | 48      | 584    | 526    | -9.9   | 220            | 216   | -1.8             | 2.7 | 2.4 | 112 <b>.2</b> | SE    |
| В   | 49      | 2      | 0      | -100.0 | 1              | 0     | -100.0           | 2.0 | 0.0 | 1,092.9       | SE    |
| В   | 50      | 3,019  | 2,229  | -26.2  | 522            | 464   | -11.1            | 5.8 | 4.8 | 1,110.0       | SE/SW |
| В   | 50.99 * | 852    | 2,287  | 168.4  | N/A            | N/A   | N/A              | N/A | N/A | N/A           | SE/SW |

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| В         | 51 | 592     | 1,165           | 96.8          | 397    | 555    | 39.8        | 1.5         | 2.1         | 596.3           | sw |
|-----------|----|---------|-----------------|---------------|--------|--------|-------------|-------------|-------------|-----------------|----|
|           |    |         |                 |               |        |        |             | 0.0         |             |                 |    |
| Subtotal: |    | 188,318 | 170 <b>,944</b> | -9.2          | 78,522 | 74,987 | -4.5        | 2.4         | 2.3         | <b>8,69</b> 0.7 |    |
|           |    |         |                 |               |        |        |             | 0.0         |             |                 |    |
| С         | 52 | 31      | 53              | 71.0          | 13     | 24     | 84.6        | 2.4         | 2.2         | 2,140.7         | SW |
| С         | 54 | 935     | 1,271           | 35.9          | 598    | 707    | 18.2        | 1.6         | 1.8         | 436.6           | SW |
| С         | 55 | 6,274   | 6,293           | 0.3           | 2,384  | 2,565  | 7.6         | 2.6         | 2.5         | 296.5           | SW |
| С         | 56 | 1,259   | 1,217           | -3.3          | 572    | 553    | -3.3        | 2.2         | 2.2         | 207.6           | SW |
| С         | 57 | 81      | 3               | -96.3         | 32     | 4      | -87.5       | 2.5         | 0.8         | 318.5           | SW |
| С         | 58 | 0       | 32              | 100 <b>.0</b> | 0      | 37     | 100.0       | <b>0.</b> 0 | 0.9         | 838.9           | SW |
| С         | 59 | 0       | 0               | 0.0           | 0      | 0      | 0.0         | 0.0         | 0.0         | 96.4            | SW |
| С         | 60 | 6,848   | 6,554           | -4.3          | 2,660  | 2,768  | 4.1         | 2.6         | 2.4         | 268.6           | SW |
| С         | 61 | 3,548   | 3,146           | -11.3         | 1,220  | 1,193  | -2.2        | 2.9         | 2.6         | 132.0           | sw |
| С         | 62 | 4,292   | 4,038           | -5.9          | 1,608  | 1,581  | -1.7        | 2.7         | 2.6         | 124.8           | SW |
| С         | 63 | 4,468   | 4,709           | 5.4           | 1,847  | 1,775  | -3.9        | 2.4         | 2.7         | 137.1           | SW |
| С         | 64 | 4,861   | 4,512           | -7.2          | 1,737  | 1,680  | -3.3        | 2.8         | 2.7         | 163.8           | SW |
| С         | 65 | 6,716   | 6,283           | -6.4          | 2,433  | 2,295  | -5.7        | 2.8         | 2.7         | 286.4           | SW |
| С         | 66 | 4,253   | 4,218           | -0.8          | 1,605  | 1,574  | -1.9        | 2.6         | 2.7         | 162.1           | SW |
| С         | 67 | 7,118   | 6,431           | -9.7          | 2,808  | 2,743  | -2.3        | 2.5         | 2.3         | 248.3           | SW |
| С         | 68 | 0       | 0               | 0.0           | 0      | 0      | <b>0</b> .0 | 0.0         | 0.0         | 225.4           | SW |
| С         | 69 | 2,974   | 2,520           | -15.3         | 1,130  | 1,092  | -3.4        | 2.6         | 2.3         | 150.2           | SW |
| С         | 70 | 5,633   | 5,374           | -4.6          | 2,005  | 1,924  | -4.0        | 2.8         | 2.8         | 115.9           | sw |
| С         | 71 | 10,371  | 9,952           | -4.0          | 3,495  | 3,317  | -5.1        | 3.0         | 3.0         | 165.6           | SW |
| С         | 72 | 6,476   | 6,112           | -5.6          | 2,244  | 2,093  | -6,7        | 2.9         | 2.9         | 120.8           | SW |
| С         | 73 | 4,227   | 3,722           | -11.9         | 1,478  | 1,355  | -8.3        | 2.9         | 2.7         | 96.6            | SW |
| С         | 74 | 5,963   | 5,445           | -8.7          | 2,287  | 2,153  | -5.9        | 2.6         | 2.5         | 167.0           | sw |
| С         | 75 | 0       | 0               | 0.0           | 0      | 0      | 0 <b>.0</b> | 0.0         | <b>0</b> .0 | 123.1           | SW |
| Subtotal: |    | 86,328  | 81,885          | -5.1          | 32,156 | 31,433 | -2.2        | 2.7         | 2.6         | 7,022.9         | J  |
| D         | 76 | 1,774   | 416             | -76.6         | 2      | 0      | -100.0      | 887.0       | ID          | 248.3           | sw |
| D         | 77 | 1.898   | 2.253           | 18.7          | 1.023  | 931    | -9.0        | 1.9         | 2.4         | 80.3            | SW |
| D         | 78 | 5,319   | 4,776           | -10.2         | 2,870  | 2,448  | -14.7       | 1.9         | 2.0         | 107.2           | SW |
| D         | 79 | 5,147   | 4,729           | -8.1          | 2,398  | 2,427  | 1.2         | 2.1         | 1.9         | 93.2            | SW |

| D          | 80  | 5,508  | 5,031         | -8.7  | 2,118         | 1,934          | -8.7   | 2.6 | 2.6              | 105.8        | SW |
|------------|-----|--------|---------------|-------|---------------|----------------|--------|-----|------------------|--------------|----|
| D          | 81  | 10,325 | 9,314         | -9.8  | 3,459         | 3,334          | -3.6   | 3.0 | 2.8              | 152.0        | SW |
| D          | 82  | 9,140  | 8,020         | -12.3 | 3,067         | 2,962          | -3.4   | 3.0 | 2.7              | 206.1        | SW |
| D          | 83  | 11,136 | 10,336        | -7.2  | 4,303         | 4,433          | 3.0    | 2.6 | 2.3              | 232.8        | SW |
| D          | 84  | 5,624  | 5,286         | -6.0  | <b>2,16</b> 5 | 2,080          | -3.9   | 2.6 | . 2.5            | 122.8        | SW |
| D          | 85  | 8,170  | 7,761         | -5.0  | 3,632         | 3,332          | -8.3   | 2.2 | 2.3              | 154.2        | SW |
| D          | 86  | 6,559  | 6,685         | 1.9   | 3,476         | 3,186          | -8.3   | 1.9 | 2.1              | 154.9        | SW |
| D          | 87  | 7,210  | 7,249         | 0.5   | 4,087         | 4,273          | 4.6    | 1.8 | 1.7              | 133.2        | SW |
| D          | 88  | 8,440  | 9,190         | 8.9   | 2,296         | 2,600          | 13.2   | 3.7 | 3.5              | 140.6        | SW |
| D          | 89  | 2,246  | 2,786         | 24.0  | 366           | 702            | 91.8   | 6.1 | 4.0              | 216.0        | SW |
| D          | 90  | 3,805  | 4,473         | 17.6  | 1,396         | 1,774          | 27.1   | 2.7 | 2.5              | 110.0        | sw |
| D          | 91  | 2,722  | 2,968         | 9.0   | 1,769         | 1,935          | 9.4    | 1.5 | 1.5              | 103.5        | sw |
| D          | 92  | 3,440  | 3,197         | -7.1  | 1,640         | 1,458          | -11.1  | 2.1 | 2.2              | 127.3        | SW |
| D          | 93  | 5,286  | 4,922         | -6.9  | 2,453         | 2,436          | -0.7   | 2.2 | 2.0              | 99.6         | SW |
| D          | 94  | 4,235  | 4,226         | -0.2  | 1,754         | 1,929          | 10.0   | 2.4 | 2.2              | 92.2         | SW |
| D          | 95  | 4,214  | 3,877         | -8.0  | 1,826         | 1,743          | -4.5   | 2.3 | 2.2              | 80.1         | SW |
| D          | 96  | 5,230  | 4,915         | -6.0  | 2,198         | 2,111          | -4.0   | 2.4 | 2.3              | 101.3        | SW |
| D          | 97  | 42     | 89            | 111.9 | 19            | 46             | 142.1  | 2.2 | <sup>·</sup> 1.9 | 527.1        | SW |
| D          | 98  | 7,677  | 7,271         | -5.3  | 3,241         | 3,269          | 0.9    | 2.4 | 2.2              | 223.4        | SW |
| D          | 99  | 380    | 366           | -3.7  | 134           | 139            | 3.7    | 2.8 | 2.6              | 50.9         | sW |
| D          | 100 | 4,455  | 3,882         | -12.9 | 1,747         | 1,686          | -3.5   | 2.6 | 2.3              | 136.6        | SW |
| D          | 101 | 6,867  | 6,389         | -7.0  | 2,778         | 2,659          | -4.3   | 2.5 | 2.4              | 149.0        | SW |
| D          | 102 | 3,256  | 3,231         | -0.8  | 1,514         | 1,433          | -5.4   | 2.2 | 2.3              | 88.5         | SW |
| D          | 103 | 3,168  | 2,933         | -7.4  | 1,382         | 1,239          | -10.3  | 2.3 | 2.4              | 71.2         | SW |
| D          | 104 | 4,421  | 4,251         | -3.8  | 1,601         | 1,606          | 0.3    | 2.8 | 2.6              | 116.6        | SW |
| D          | 105 | 5,297  | 4,535         | -14.4 | 2,015         | 1,796          | -10.9` | 2.6 | 2.5              | 165.1        | SW |
| D          | 106 | 2,132  | 1,622         | -23.9 | 1,071         | 950            | -11.3  | 2.0 | 1.7              | 64.0         | sW |
| <b>D</b> . | 107 | 4,718  | 4,166         | -11.7 | 2,186         | 1,857          | -15.1  | 2.2 | 2.2              | 114.4        | SW |
| D          | 108 | 5,969  | 4,727         | -20.8 | 2,601         | 1, <b>92</b> 5 | -26.0  | 2.3 | 2.5              | 132.7        | SW |
| D          | 109 | 3,143  | 2,503         | -20.4 | 1,289         | 1,157          | -10.2  | 2.4 | 2.2              | 63.8         | sw |
| D          | 110 | 4,767  | 4,591         | -3.7  | 2,366         | 2,162          | -8.6   | 2.0 | 2.1              | 119.8        | SW |
| D          | 111 | 5,727  | 5,333         | -6.9  | 2,390         | 2,321          | -2.9   | 2.4 | 2.3              | <b>325.9</b> | sw |
| D          | 112 | 6,672  | 6,547         | -1.9  | 2,663         | 2,542          | -4.5   | 2.5 | 2.6              | 125.0        | SW |
| D          | 113 | 3,802  | 3,54 <b>5</b> | -6.8  | 1,545         | 1,413          | -8.5   | 2.5 | 2.5              | 85.3         | SW |
|            |     |        |               |       |               |                | •      |     |                  |              |    |

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| p<br>Variante |  |  | Ç |  |  | <u> </u> | جم<br>م | <u>( 1</u> ) | بەرمەسىيە مە<br>قىرىيىسىنىيە | Contract - 1 | منعن مرينيو<br>من | ،<br>میں |  |
|---------------|--|--|---|--|--|----------|---------|--------------|------------------------------|--------------|-------------------|----------|--|
|               |  |  |   |  |  |          |         |              |                              |              |                   |          |  |

| D         | 114 | 7,537   | 7,232   | -4.0  | 2,999  | 3,029  | 1.0   | 2.5 | 2.4         | 24 <b>0.7</b> | SW    |
|-----------|-----|---------|---------|-------|--------|--------|-------|-----|-------------|---------------|-------|
| D         | 115 | 4,364   | 3,776   | -13.5 | 1,717  | 1,682  | -2.0  | 2.5 | 2.2         | 88.5          | SW    |
| D         | 116 | 3,433   | 2,997   | -12.7 | 1,491  | 1,442  | -3.3  | 2.3 | <u>2.</u> 1 | 185.1         | SW    |
| D         | 117 | 1,942   | 2,088   | 7,5   | 420    | 404    | -3.8  | 4.6 | 5.2         | 164.1         | SW    |
| D         | 118 | 7,529   | 7,059   | -6.2  | 2,388  | 2,330  | -2.4  | 3.2 | 3.0         | 232.3         | SW    |
| D         | 119 | 6,183   | 6,302   | 1.9   | 2,532  | 2,488  | -1.7  | 2.4 | 2.5         | 172.5         | SW    |
| D         | 120 | 1,747   | 1,781   | 1.9   | 838    | 783    | -6.6  | 2.1 | 2.3         | 148.0         | SW    |
| D         | 121 | 2,989   | 3,007   | 0.6   | 1,262  | 1,283  | 1.7   | 2.4 | 2.3         | 221.2         | SW    |
| D         | 122 | 7,249   | 6,955   | -4.1  | 4,713  | 5,219  | 10.7  | 1.5 | 1.3         | 353.4         | SW    |
| D         | 123 | 85      | 117     | 37.6  | 26     | 52     | 100.0 | 3.3 | 2.3         | 1,362.5       | SW    |
| D         | 124 | 0       | 8       | 100.0 | 0      | 0      | 0.0   | 0.0 | ID          | 298.7         | SW    |
| Subtotal: |     | 232,979 | 219,713 | -5.7  | 97,226 | 94,940 | -2.4  | 2.4 | 2.3         | 8,887.7       |       |
| E         | 125 | 3,392   | 3,612   | 6.5   | 2,393  | 3,025  | 26.4  | 1.4 | 1.2         | 207.3         | SE/SW |
| Е         | 126 | 409     | 635     | 55.3  | 246    | 386    | 56.9  | 1,7 | 1.6         | 90.7          | ŚE    |
| Е         | 127 | 378     | 399     | 5.6   | 186    | 207    | 11.3  | 2.0 | 1.9         | 83.3          | SE    |
| Е         | 128 | 71      | 163     | 129.6 | 61     | 117    | 91.8  | 1.2 | 1.4         | 63.5          | SE    |
| Е         | 129 | 288     | 430     | 49.3  | 287    | 299    | 4.2   | 1.0 | 1.4         | 89.5          | SE    |
| Е         | 130 | 878     | 1,009   | 14.9  | 383    | 487    | 27.2  | 2.3 | 2.1         | 51.4          | SE    |
| Е         | 131 | 2,772   | 2,200   | -20.6 | 1,000  | 990    | -1.0  | 2.8 | 2.2         | 79.1          | SE    |
| Е         | 132 | 4,722   | 4,166   | -11.8 | 1,867  | 1,594  | -14.6 | 2.5 | 2.6         | 107.0         | SE    |
| Е         | 133 | 2,676   | 2,264   | -15.4 | 1,415  | 1,380  | -2.5  | 1.9 | 1.6         | 88.7          | SE    |
| E         | 134 | 5,694   | 5,401   | -5.1  | 3,227  | 3,352  | 3.9   | 1.8 | 1.6         | 105.8         | SE/SW |
| Е         | 135 | 3,522   | 3,726   | 5.8   | 1,579  | 1,553  | -1.6  | 2.2 | 2.4         | 100.3         | SE/SW |
| E         | 136 | 6,532   | 5,882   | -10.0 | 3,172  | 3,493  | 10.1  | 2.1 | 1.7         | <b>99.8</b>   | SE/SW |
| Е         | 137 | 7,220   | 6,573   | -9.0  | 2,953  | 2,762  | -6.5  | 2.4 | 2.4         | 150.0         | SE/SW |
| Ε.        | 138 | 3,728   | 2,941   | -21.1 | 1,624  | 1,443  | -11.1 | 2.3 | 2.0         | 87.0          | SE/SW |
| Ε         | 139 | 5,404   | 4,785   | -11.5 | 1,964  | 1,819  | -7.4  | 2.8 | 2.6         | 140.1         | SE    |
| Е         | 140 | 4,622   | 3,594   | -22.2 | 2,407  | 2,018  | -16.2 | 1.9 | 1.8         | 105.5         | SE    |
| E         | 141 | 3,536   | 2,768   | -21.7 | 1,447  | 1,204  | -16.8 | 2.4 | 2.3         | 141.3         | SE    |
| E         | 142 | 2,232   | 2,190   | -1.9  | 1,236  | 1,111  | -10.1 | 1.8 | 2.0         | 196.2         | SE    |
| Е         | 144 | 3,362   | 3,331   | -0.9  | 1,434  | 1,365  | -4.8  | 2.3 | 2.4         | 154.2         | SE    |
| Е         | 145 | 2,764   | 2,006   | -27.4 | 903    | 743    | -17.7 | 3.1 | 2.7         | 80.1          | SE    |
| Е         | 146 | 3,086                    | 3,322           | 7.6         | 1,170          | 1,021  | -12.7          | 2.6 | 3.3 | 112.7   | SE       |
|-----------|-----|--------------------------|-----------------|-------------|----------------|--------|----------------|-----|-----|---------|----------|
| E         | 147 | 3,540                    | 2,437           | -31.2       | 1,825          | 1,710  | -6.3           | 1.9 | 1.4 | 85.5    | SE       |
| Е         | 148 | 1,738                    | 1,278           | -26.5       | 821            | 740    | -9.9           | 2.1 | 1.7 | 47.2    | SE       |
| Е         | 149 | 6,853                    | 5,834           | -14.9       | 2,717          | 2,696  | -0.8           | 2.5 | 2.2 | 110.0   | SE/SW    |
| Е         | 150 | 10                       | 97              | 870.0       | 4              | 41     | 925.0          | 2.5 | 2.4 | 586.8   | SW       |
| Е         | 151 | 10,745                   | 9,215           | -14.2       | 3,996          | 3,929  | -1.7           | 2.7 | 2.3 | 187.1   | SE/SW    |
| Е         | 152 | 11,241                   | 8,134           | -27.6       | 3, <b>92</b> 3 | 3,484  | -11.2          | 2.9 | 2.3 | 161.9   | SE       |
| Е         | 153 | 5,308                    | 3,621           | -31.8       | 2,718          | 1,950  | -28.3          | 2.0 | 1.9 | 113.7   | SE       |
| Е         | 154 | 2,150                    | 1,819           | -15.4       | 221            | 290    | 31.2           | 9.7 | 6.3 | 76.8    | SE       |
| Е         | 155 | 4,565                    | 3,413           | -25.2       | 1,571          | 1,140  | -27.4          | 2.9 | 3.0 | 104.0   | SE       |
| Е         | 156 | 2,857                    | 2,386           | -16.5       | 1,060          | 756    | -28.7          | 2.7 | 3.2 | 106.0   | SE       |
| E         | 157 | 2,628                    | 2,764           | 5.2         | 1,254          | 1,001  | -20.2          | 2.1 | 2.8 | 122.3   | SE       |
| Е         | 162 | 3,537                    | 2,85 <b>8</b>   | -19.2       | 1,188          | 949    | -20.1          | 3.0 | 3.0 | 86.2    | SE       |
| Е         | 163 | 4,229                    | 4,147           | -1.9        | 1,578          | 1,281  | -18.8          | 2.7 | 3.2 | 139.6   | SE       |
| Е         | 164 | 6,141                    | 5,589           | -9.0        | 2,139          | 1,751  | -18.1          | 2.9 | 3.2 | 118.4   | SE/NE    |
| Ε         | 165 | 5,095                    | 3,870           | -24.0       | 1,926          | 1,674  | -13.1          | 2.6 | 2.3 | 99.1    | SE       |
| Ε         | 166 | 1,788                    | 1,475           | -17.5       | 852            | 715    | -16.1          | 2.1 | 2.1 | 63.3    | SE       |
| Ε         | 167 | 10,391                   | 8,509           | -18.1       | 4,280          | 3,726  | -12.9          | 2.4 | 2.3 | 151.2   | SE       |
| Е         | 168 | 5,903                    | 5,370           | -9.0        | 2,598          | 2,238  | -13.9          | 2.3 | 2.4 | 142.8   | SE       |
| E         | 169 | 14,604                   | 12, <b>27</b> 8 | -15.9       | 6,086          | 5,330  | -12.4          | 2.4 | 2.3 | 266.6   | SE/SW    |
| Subtotal: |     | 17 <b>0,</b> 61 <b>1</b> | 146,491         | -14.1       | 71,711         | 65,770 | -8.3           | 2.4 | 2.2 | 5,104.0 |          |
| F         | 170 | 4,532                    | 3,927           | -13.3       | 1,512          | 1,471  | -2.7           | 3.0 | 2.7 | 392.4   | SE/SW    |
| F         | 171 | 6,076                    | 5,276           | -13.2       | 1,944          | 1,900  | -2.3           | 3.1 | 2.8 | 282.9   | SE/SW/NE |
| F         | 172 | 11,316                   | 9,976           | -11.8       | 3,914          | 3,766  | -3. <b>8</b> ` | 2.9 | 2.6 | 138.4   | SE/SW    |
| F         | 173 | 3,993                    | 3,815           | -4.5        | 1,615          | 1,662  | 2.9            | 2.5 | 2.4 | 217.0   | SE/SW/NE |
| F.        | 174 | 3,780                    | 3,406           | -9.9        | 1,667          | 1,269  | -23.9          | 2.3 | 2.7 | 86.0    | NE       |
| F         | 175 | 9,663                    | 9,010           | <b>-6.8</b> | 3,382          | 3,066  | -9.3           | 2,9 | 2.9 | 176.7   | SE/NE    |
| F         | 176 | 10,791                   | 11,464          | 6.2         | 4,104          | 3,814  | -7.1           | 2.6 | 3.0 | 243.6   | SE       |
| F         | 194 | 281                      | 361             | 28.5        | 124            | 138    | 11.3           | 2.3 | 2.6 | 332.6   | NE       |
| F         | 195 | 8,399                    | 8,707           | 3.7         | 3,182          | 2,969  | -6.7           | 2.6 | 2.9 | 193.7   | SE/NE    |
| F         | 196 | 2,390                    | 2,639           | 10.4        | 968            | 945    | -2.4           | 2.5 | 2.8 | 185.3   | SE/NE    |
| F         | 197 | 7,213                    | 7,736           | 7.3         | 2,379          | 2,427  | 2.0            | 3.0 | 3.2 | 210.8   | ŇE       |

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| F        | 198          | 7,486         | 6,966   | -6.9   | 2,344  | 2,232  | -4.8          | 3.2 | 3.1 | 133.4   | NE    |
|----------|--------------|---------------|---------|--------|--------|--------|---------------|-----|-----|---------|-------|
| F        | 199          | 5,827         | 5,390   | -7.5   | 2,031  | 1,683  | -17.1         | 2.9 | 3.2 | 164.6   | SE/NE |
| F        | 200          | 2,536         | 2,176   | -14.2  | 983    | 881    | -10.4         | 2,6 | 2.5 | 79.6    | NE    |
| F        | 201          | 9,799         | 8,049   | -17.9  | 5,488  | 3,851  | -29. <b>8</b> | 1.8 | 2.1 | 215.7   | NE    |
| F        | 202          | 7,359         | 6,102   | -17.1  | 3,358  | 2,729  | -18.7         | 2,2 | 2,2 | 188,8   | SE/NE |
| . F      | 203          | 4,752         | 3,780   | -20.5  | 1,902  | 1,611  | -15.3         | 2.5 | 2.3 | 130.0   | NE    |
| F        | 204          | 4,217         | 3,805   | -9.8   | 1,557  | 1,426  | -8.4          | 2.7 | 2.7 | 101.8   | NE    |
| F        | 205          | 3,283         | 3,460   | 5.4    | 1,401  | 1,566  | 11.8          | 2.3 | 2.2 | 354.1   | SE/NE |
| Subtotal | l:           | 113,693       | 106,045 | -6.7   | 43,855 | 39,406 | -10.1         | 2.6 | 2.7 | 3,827.4 |       |
| G        | 143          | 1,488         | 1,470   | -1.2   | 704    | 703    | -0.1          | 2.1 | 2,1 | 136.9   | SE    |
| G        | 158          | 6,786         | 6,059   | -10.7  | 2,664  | 2,568  | -3.6          | 2.5 | 2.4 | 147.0   | SE    |
| G        | 159          | 1,926         | 1,765   | -8.4   | 860    | 824    | -4.2          | 2,2 | 2.1 | 171.5   | SE    |
| G        | 160          | 8,420         | 7,973   | -5.3   | 3,234  | 3,156  | -2.4          | 2.6 | 2.5 | 176.4   | SE    |
| G        | 161          | 6,546         | 6,034   | -7.8   | 2,858  | 2,416  | -15.5         | 2.3 | 2.5 | 172.0   | SE    |
| G        | 177          | 9,122         | 8,597   | -5.8   | 3,746  | 3,411  | -8.9          | 2.4 | 2.5 | 176.4   | SE/NE |
| G        | 178          | 6,881         | 6,252   | -9.1   | 3,007  | 2,812  | -6.5          | 2.3 | 2.2 | 167.5   | SE/NE |
| G        | 179          | 6,895         | 6,435   | -6.7   | 2,690  | 2,610  | -3.0          | 2.6 | 2.5 | 167.8   | NE    |
| G        | 180          | 8,699         | 8,419   | -3.2   | 3,696  | 3,755  | 1.6           | 2.4 | 2.2 | 201.1   | NE    |
| G        | 181          | 191           | 197     | 3.1    | 106    | 103    | -2.8          | 1.8 | 1.9 | 170,7   | NE    |
| G        | 182          | 382           | 375     | -1.8   | 179    | 179    | 0.0           | 2.1 | 2.1 | 581.7   | NE    |
| G        | 182.99 *     | 43            | 0       | -100.0 | N/A    | N/A    | N/A           | N/A | N/A | N/A     | NE    |
| G        | 183          | 4,501         | 4,225   | -6.1   | 1,702  | 1,708  | 0.4           | 2.6 | 2.5 | 520.6   | NE    |
| G        | 184          | 2,328         | 2,306   | -0.9   | 875    | 885    | 1.1           | 2.7 | 2.6 | 282.4   | NE    |
| G        | 185          | 147           | 134     | -8.8   | 67     | 69     | <b>3.0</b>    | 2,2 | 1.9 | 163.6   | NE    |
| G        | 186          | 5,163         | 4,821   | -6.6   | 2,128  | 2,168  | 1.9           | 2.4 | 2.2 | 176.2   | NE    |
| G.       | 187          | 1,834         | 1,773   | -3.3   | 709    | 727    | 2.5           | 2.6 | 2.4 | 198.9   | · NE  |
| G        | 188          | 7,432         | 7,167   | -3.6   | 2,946  | 2,923  | -0.8          | 2.5 | 2.5 | 166.3   | NE    |
| G        | 189          | 1,077         | 1,013   | -5.9   | 389    | 386    | -0.8          | 2.8 | 2.6 | 252.5   | NE    |
| G        | <b>190</b> . | 6,761         | 6,428   | -4.9   | 2,649  | 2,624  | -0.9          | 2.6 | 2.4 | 196.9   | NE    |
| G        | 191          | 6 <b>,748</b> | 6,060   | -10.2  | 2,795  | 2,747  | -1.7          | 2.4 | 2.2 | 359.5   | NE    |
| G        | 192          | 7,364         | 7,078   | -3.9   | 2,832  | 2,769  | -2.2          | 2.6 | 2.6 | 162.8   | NE    |
| G        | 193          | 131           | 134     | 2.3    | 50     | 44     | -12.0         | 2.6 | 3.0 | 280.7   | NE    |

| Subtotal: |                 | 1 <b>00,8</b> 6 <b>5</b> | 94,715 | -6.1         | 40,886 | 39,587          | -3.2                      | 2.5         | 2.4         | 5,029.4 |          |
|-----------|-----------------|--------------------------|--------|--------------|--------|-----------------|---------------------------|-------------|-------------|---------|----------|
| н         | 209             | 3,473                    | 3,080  | -11.3        | 1,402  | 1,391           | -0.8                      | 2.5         | 2.2         | 131.5   | SW       |
| н         | 210             | 5,770                    | 5,505  | -4.6         | 2,270  | 2,272           | 0.1                       | 2.5         | 2.4         | 210.5   | SW       |
| Н         | 211             | 2,981                    | 2,608  | -12.5        | 1,232  | 1,199           | -2.7                      | 2.4         | 2.2         | 134.9   | SW       |
| Н         | 212             | 2,702                    | 2,474  | -8.4         | 1,134  | 1,098           | -3.2                      | 2.4         | 2.3         | 122.3   | SW       |
| Н         | 213             | 4,148                    | 3,830  | -7.7         | 1,590  | 1,622           | <b>2</b> .0               | 2.6         | 2.4         | 134.4   | SW       |
| Н         | 214             | 4,417                    | 3,867  | -12.5        | 1,756  | 1,865           | 6.2                       | 2.5         | 2.1         | 157.2   | SW       |
| Н         | 215             | 3,924                    | 3,542  | -9.7         | 1,485  | 1,613           | 8.6                       | 2.6         | 2.2         | 270.1   | SW       |
| н         | 216             | 1,479                    | 1,464  | -1.0         | 656    | 747             | 13. <del>9</del>          | 2.3         | 2.0         | 432.9   | SW       |
| Н         | 217             | 7,158                    | 6,376  | -10.9        | 2,498  | 2,629           | 5.2                       | 2.9         | 2.4         | 388.7   | SW       |
| Н         | 218             | 4,267                    | 4,053  | -5.0         | 2,202  | 2,476           | 12.4                      | 1.9         | 1.6         | 250.8   | SW       |
| Н         | 219             | 1,494                    | 1,404  | -6.0         | 628    | 706             | 12.4                      | 2.4         | 2.0         | 382.3   | SW       |
| Н         | <b>22</b> 0     | 1,147                    | 1,600  | <b>39</b> .5 | 553    | 820             | <b>48.3</b>               | 2.1         | 2.0         | 719.1   | SW       |
| Н         | 221             | 1,265                    | 1,167  | -7.7         | 478    | 475             | -0.6                      | 2.6         | 2.5         | 161.9   | SW       |
| н         | 222             | 1,215                    | 1,555  | 28.0         | 363    | 517             | 42.4                      | 3.3         | 3.0         | 505.3   | SW       |
| Subtotal: |                 | 45,440                   | 42,525 | -6.4         | 18,247 | 19 <b>,</b> 430 | 6.5                       | 2.5         | 2.2         | 4,001.9 |          |
| 1         | 206             | 1,842                    | 1,606  | -12.8        | 1,105  | 1,100           | -0.5                      | 1.7         | 1.5         | 317.8   | SE/SW/NE |
| 1         | 207             | 6,638                    | 6,793  | 2.3          | 3,091  | 2,700           | -12.6                     | 2.1         | 2.5         | 352.4   | SE/SW    |
| l I       | 208             | 2,095                    | 1,513  | -27.8        | 1,265  | 1,248           | -1.3                      | 1.7         | 1.2         | 221.7   | SE/SW    |
| 1         | 223             | 68                       | 374    | 450.0        | 26     | 144             | 453.8                     | 2.6         | 2.6         | 1,372.4 | SE/SW    |
| I         | 224             | 375                      | 335    | -10.7        | 129    | 121             | -6.2                      | 2.9         | 2.8         | 160.4   | ŚW       |
| F         | 225             | 765                      | 506    | -33.9        | 84     | 104             | <b>23</b> .8 <sup>.</sup> | 9.1         | 4.9         | 221.7   | SW       |
| l         | 226             | 479                      | 472    | -1.5         | 107    | 103             | -3.7                      | 4.5         | 4.6         | 152.5   | SW       |
| 1.        | 227             | 1,307                    | 1,423  | 8.9          | 530    | 728             | 37.4                      | <b>2</b> .5 | <b>2</b> .0 | 141.6   | s SW     |
| 1         | 228             | 1,573                    | 1,447  | -8.0         | 811    | 199             | -75.5                     | 1.9         | 7.3         | 174.2   | SW       |
| 1         | 22 <del>9</del> | 247                      | 320    | 29.6         | 88     | 719             | 717.0                     | 2.8         | 2.7         | 296.3   | SE/SW    |
| F         | 230             | 384                      | 434    | 13.0         | 223    | 244             | 9.4                       | 1.7         | 1.8         | 308.4   | SE       |
| F         | 231             | 1,347                    | 1,293  | -4.0         | 566    | 556             | -1.8                      | 2.4         | 2.3         | 210.0   | SE       |
| 1         | 232             | 690                      | 870    | 26.1         | 316    | 343             | 8.5                       | 2.2         | 2.5         | 193.7   | SE       |
| I         | 233             | 3,644                    | 3,243  | -11.0        | 1,512  | 1,443           | -4.6                      | 2.4         | 2.2         | 147.5   | SE       |

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| I         | 234         | 631            | 574     | -9.0  | 221    | 221    | 0.0            | 2,9 | 2.6 | 200.2         | SE    |
|-----------|-------------|----------------|---------|-------|--------|--------|----------------|-----|-----|---------------|-------|
| 1         | 235         | 1,367          | 1,182   | -13.5 | 603    | 498    | -17.4          | 2.3 | 2.4 | 196.4         | SE    |
| I         | 236         | 3,016          | 2,636   | -12.6 | 1,390  | 1,362  | -2.0           | 2,2 | 1.9 | 241.7         | SE    |
| 1         | 237         | 5,5 <b>16</b>  | 5,349   | -3.0  | 2,457  | 2,443  | -0.6           | 2.2 | 2.2 | 267.4         | SE/NE |
| I         | 238         | 4,941          | 4,650   | -5.9  | 2,502  | 2,463  | -1.6           | 2.0 | 1,9 | 195.0         | SE/NE |
| I         | 239         | 1,913          | 1,702   | -11.0 | 1,369  | 1,345  | -1.8           | 1.4 | 1,3 | 121.1         | SE    |
| I         | 240         | 4,075          | 4,193   | 2.9   | 2,253  | 2,319  | 2.9            | 1.8 | 1.8 | 153.0         | SE/NE |
| l         | 241         | 1,463          | 1,495   | 2.2   | 846    | 730    | -13.7          | 1.7 | 2.0 | 101.3         | SE/NE |
| 1         | 242         | 4,807          | 4,312   | -10.3 | 2,074  | 1,889  | -8.9           | 2.3 | 2,3 | 132.7         | ŇE    |
| 1         | 243         | 4,511          | 4,294   | -4.8  | 1,971  | 2,015  | 2.2            | 2.3 | 2.1 | 167.0         | NE    |
| I         | 244         | 4,200          | 3,671   | -12.6 | 1,639  | 1,399  | -14.6          | 2.6 | 2,6 | 103.8         | NE    |
| ŀ         | 245         | 4,598          | 4,527   | -1.5  | 1,925  | 1,797  | -6.6           | 2.4 | 2.5 | 199.4         | NE    |
| I         | 246         | 3,633          | 3,310   | -8.9  | 1,415  | 1,342  | -5.2           | 2,6 | 2,5 | 153.2         | . NE  |
| I         | 247         | 5,823          | 5,640   | -3.1  | 2,273  | 2,107  | -7.3           | 2.6 | 2.7 | 231.8         | NE    |
| I         | 248         | 2,719          | 2,210   | -18.7 | 906    | 829    | -8.5           | 3.0 | 2.7 | 80.6          | NE    |
| I         | 249         | 4,446          | 4,144   | -6.8  | 1,461  | 1,453  | -0.5           | 3.0 | 2.9 | 80.3          | NE    |
| I         | 250         | 909            | 914     | 0.6   | 349    | 334    | -4.3           | 2.6 | 2.7 | 184.1         | NE    |
| 1         | 251         | 2,448          | 2,275   | -7.1  | 965    | 1,001  | 3.7            | 2.5 | 2.3 | 132.2         | NE    |
| I         | 252         | 8,268          | 7,379   | -10.8 | 3,318  | 3,077  | -7.3           | 2.5 | 2.4 | 233.5         | NE    |
| I         | 253         | 4,911          | 4,315   | -12.1 | 2,027  | 1,923  | -5.1           | 2.4 | 2.2 | 141.3         | NE    |
| 1         | 254         | 4,977          | 4,548   | -8.6  | 2,078  | 2,057  | -1.0           | 2.4 | 2.2 | <b>191.</b> 0 | NE    |
| l         | 25 <b>5</b> | . 3,067        | 2,898   | -5.5  | 1,215  | 1,326  | 9.1            | 2.5 | 2.2 | 191.8         | SE/NE |
| 1         | 256         | 3,071          | 2,971   | -3.3  | 1,193  | 1,260  | 5.6            | 2.6 | 2.4 | 214.7         | SE/NE |
| I         | 257         | 3,691          | 3,448   | -6.6  | 1,921  | 1,909  | -0.6           | 1.9 | 1.8 | 183.4         | SE    |
| Subtotal: |             | 110,455        | 103,266 | -6.5  | 48,224 | 46,851 | - <b>2.8</b> · | 2.3 | 2.2 | 8,367.5       |       |
| J_        | 258         | 2,106          | 1,838   | -12.7 | 761    | 778    | 2.2            | 2.8 | 2.4 | 144.3         | SE/NE |
| J         | 259         | 5 <b>,862</b>  | 5,511   | -6.0  | 2,223  | 2,144  | -3.6           | 2.6 | 2.6 | 135.2         | SE/NE |
| J         | 260         | 3,625          | 3,502   | -3.4  | 1,247  | 1,259  | 1.0            | 2.9 | 2.8 | 133.9         | ŇE    |
| J         | 261         | 3,798          | 3,625   | -4.6  | 1,464  | 1,447  | -1.2           | 2.6 | 2.5 | 164.3         | NE    |
| J         | 262         | 5, <b>37</b> 1 | 5,177   | -3.6  | 1,838  | 1,843  | 0.3            | 2.9 | 2.8 | 137.1         | NE    |
| J         | 263         | 11,474         | 11,011  | -4.0  | 3,853  | 3,829  | -0.6           | 3.0 | 2.9 | 272.8         | NE    |
| J         | <b>2</b> 64 | 6,841          | 6,443   | -5.8  | 2,255  | 2,288  | 1.5            | 3.0 | 2.8 | <b>196</b> .9 | NE    |

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| J         | 265 | 5, <b>798</b> | 5,367         | -7.4          | 1,905       | 1,875  | -1.6              | 3.0 | 2.9 | 136.4   | NE |
|-----------|-----|---------------|---------------|---------------|-------------|--------|-------------------|-----|-----|---------|----|
| J         | 266 | 8,328         | 7,490         | -10.1         | 2,666       | 2,641  | -0.9              | 3.1 | 2.8 | 222.4   | NE |
| J         | 267 | 8,650         | 7,834         | -9.4          | 2,816       | 2,742  | -2.6              | 3.1 | 2,9 | 158.9   | NE |
| J         | 268 | 4,933         | 4,644         | -5.9          | 2,192       | 2,014  | -8.1              | 2.3 | 2.3 | 189.5   | NE |
| J         | 269 | 2,023         | 2,294         | 13.4          | 808         | 728    | -9.9              | 2.5 | 3.2 | 154.2   | NE |
| J         | 270 | 2,474         | 2,275         | ~ <b>8</b> .0 | <b>9</b> 95 | 956    | -3.9              | 2.5 | 2.4 | 158.4   | NE |
| J         | 271 | 2,206         | 2,455         | 11.3          | 974         | 1,107  | 13.7              | 2.3 | 2.2 | 93.2    | NE |
| J         | 272 | 4,739         | 4,446         | -6.2          | 1,938       | 1,990  | 2.7               | 2.4 | 2.2 | 162.8   | NE |
| J         | 273 | 5,316         | 5,525         | 3.9           | 2,154       | 2,131  | -1.1              | 2.5 | 2.6 | 230.5   | NE |
| J         | 274 | 8,911         | 9,620         | 8.0           | 3,714       | 3,637  | -2.1 <sup>°</sup> | 2.4 | 2.6 | 207.6   | NE |
| J         | 275 | 4,516         | 4,651         | 3.0           | 1,823       | 1,709  | -6.3              | 2.5 | 2.7 | 152.5   | NE |
| J         | 276 | 4,595         | 4,250         | -7.5          | 1,740       | 1,814  | 4.3               | 2.6 | 2.3 | 163.8   | NE |
| J         | 277 | 5,984         | 5,358         | -10.5         | 2,332       | 2,253  | -3.4              | 2.6 | 2,4 | 135.7   | NE |
| J         | 278 | 6,005         | 5 <b>,262</b> | -12.4         | 2,578       | 2,576  | -0.1              | 2.3 | 2.0 | 180.4   | NE |
| J         | 279 | 8,54 <b>9</b> | 7,901         | -7.6          | 2,927       | 2,869  | -2.0              | 2.9 | 2.8 | 319.5   | NE |
| J         | 280 | 5,463         | 5,219         | -4.5          | 1,745       | 1,925  | 10.3              | 3.1 | 2.7 | 176.7   | NE |
| J         | 281 | 4,581         | 4,377         | -4.5          | 1,591       | 1,476  | -7.2              | 2.9 | 3.0 | 125.3   | NE |
| J         | 282 | 6,034         | 6,016         | -0.3          | 2,352       | 2,176  | -7.5              | 2.6 | 2.8 | 213.5   | NE |
| J         | 283 | 9,895         | 8,746         | -11.6         | 3,637       | 3,228  | -11.2             | 2.7 | 2.7 | 167.8   | NE |
| J         | 284 | 6,881         | 5,865         | -14.8         | 2,236       | 2,148  | -3.9              | 3.1 | 2.7 | 117.6   | NE |
| J         | 285 | 2,157         | 2,259         | 4.7           | 889         | 846    | -4.8              | 2.4 | 2.7 | 70.7    | NE |
| J         | 286 | 6,630         | 7,114         | 7.3           | 2,513       | 2,338  | -7,0              | 2.6 | 3.0 | 168.8   | NE |
| J         | 287 | 2,299         | 2,468         | 7.4           | 916         | 893    | -2.5              | 2.5 | 2.8 | 87.5    | NE |
| J         | 288 | 3,595         | 3,853         | 7.2           | 1,516       | 1,432  | -5.5              | 2.4 | 2.7 | 114.9   | NE |
| J         | 289 | 8,963         | 8,484         | -5.3          | 3,271       | 3,202  | -2.1              | 2.7 | 2.6 | 292.1   | NE |
| J         | 290 | 5,437         | 5,670         | 4.3           | 2,155       | 2,134  | <b>-1.0</b>       | 2.5 | 2.7 | 198.7   | NE |
| Subtotal: |     | 184,039       | 176,550       | -4.1          | 68,024      | 66,428 | -2.3              | 2.7 | 2.7 | 5,583.9 | t  |
| к         | 291 | 4,263         | 4,461         | 4.6           | 1,692       | 1,673  | -1.1              | 2.5 | 2.7 | 334.8   | NE |
| к         | 292 | 4,015         | 3,965         | -1.2          | 1,398       | 1,407  | 0.6               | 2.9 | 2.8 | 421.1   | NE |
| К         | 293 | 3,039         | 2,878         | -5.3          | 1,270       | 1,228  | -3.3              | 2.4 | 2.3 | 172.2   | NE |
| К         | 294 | 3,352         | 3,216         | -4.1          | 1,492       | 1,288  | -13.7             | 2.2 | 2.5 | 164.6   | NE |
| к         | 295 | 1,088         | 1,067         | -1.9          | 448         | 427    | -4.7              | 2,4 | 2.5 | 156.9   | NE |

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| К  | 296 | 1,186  | 1,172 | -1.2  | 515   | 509   | -1.2  | 2,3 | 2.3 | 58.3  | NE   |
|----|-----|--------|-------|-------|-------|-------|-------|-----|-----|-------|------|
| K  | 297 | 483    | 454   | -6.0  | 180   | 186   | 3.3   | 2.7 | 2.4 | 176.2 | NE   |
| K  | 298 | 4,609  | 4,216 | -8.5  | 1,928 | 1,920 | -0.4  | 2,4 | 2.2 | 160.4 | NE   |
| K  | 299 | 4,698  | 4,332 | -7.8  | 1,826 | 1,717 | -6.0  | 2.6 | 2.5 | 147.8 | NE   |
| К  | 300 | 6,937  | 6,867 | -1.0  | 3,060 | 2,976 | -2,7  | 2.3 | 2.3 | 225.4 | NE   |
| K  | 301 | 5,544  | 5,603 | 1.1   | 2,564 | 2,542 | -0.9  | 2,2 | 2.2 | 180.4 | NE   |
| К  | 302 | 6,616  | 6,514 | -1.5  | 2,583 | 2,604 | 0.8   | 2.6 | 2.5 | 220.9 | NE   |
| К  | 303 | 7,715  | 6,947 | -10.0 | 2,671 | 2,621 | -1.9  | 2.9 | 2.7 | 208.3 | NE   |
| K  | 304 | 508    | 631   | 24.2  | 216   | 272   | 25.9  | 2.4 | 2.3 | 307.4 | NE   |
| K  | 305 | 10,220 | 9,557 | -6.5  | 4,009 | 4,006 | -0.1  | 2.5 | 2.4 | 264.2 | NE   |
| K  | 306 | 6,526  | 6,518 | -0.1  | 2,625 | 2,832 | 7.9   | 2.5 | 2.3 | 247.1 | NE   |
| K  | 307 | 2,943  | 2,929 | -0.5  | 1,388 | 1,439 | 3.7   | 2.1 | 2.0 | 158.6 | NE   |
| K  | 308 | 4,410  | 4,403 | -0.2  | 1,716 | 1,742 | 1.5   | 2.6 | 2.5 | 195.2 | NE   |
| К  | 309 | 3,286  | 3,278 | -0.2  | 1,418 | 1,463 | 3.2   | 2.3 | 2.2 | 158.9 | NE   |
| K  | 310 | 5,774  | 5,636 | -2.4  | 2,286 | 2,249 | -1.6  | 2.5 | 2.5 | 266.4 | NE   |
| K  | 311 | 8,316  | 7,940 | -4.5  | 3,182 | 3,155 | -0.8  | 2.6 | 2.5 | 185.1 | NE   |
| K  | 312 | 3,982  | 3,857 | -3.1  | 1,652 | 1,665 | 0.8   | 2.4 | 2.3 | 102.3 | NE   |
| K  | 313 | 5,881  | 5,396 | -5.0  | 2,376 | 2,360 | -0.7  | 2.4 | 2.3 | 178.2 | NE   |
| К  | 314 | 10,137 | 9,575 | -5.5  | 4,120 | 4,099 | -0.5  | 2.5 | 2.3 | 280.5 | NE   |
| K  | 315 | 9,986  | 9,379 | -6.1  | 4,026 | 4,012 | -0.3  | 2.5 | 2.3 | 293.3 | NE   |
| К  | 316 | 6,023  | 5,530 | -8.2  | 2,271 | 2,252 | -0.8  | 2.7 | 2.5 | 180.9 | NE   |
| К  | 317 | 6,196  | 5,581 | -9.9  | 2,340 | 2,376 | 1.5   | 2.6 | 2.3 | 217.0 | NE   |
| K  | 318 | 3,591  | 3,456 | -3.8  | 1,519 | 1,515 | -0.3  | 2.4 | 2.3 | 117.9 | NE   |
| К  | 319 | 5,023  | 4,810 | -4.2  | 1,870 | 1,883 | 0.7   | 2.7 | 2.6 | 188.8 | NE   |
| К  | 320 | 7,056  | 6,449 | -8.6  | 2,663 | 2,653 | -0.4  | 2.6 | 2.4 | 171.0 | NE   |
| К  | 321 | 4,081  | 3,906 | -4.3  | 1,614 | 1,558 | -3.5  | 2.5 | 2.5 | 136.4 | NE   |
| К  | 322 | 225    | 179   | -20.4 | 73    | 75    | 2.7   | 3.1 | 2.4 | 138.4 | NE   |
| Κ. | 323 | 3,860  | 3,596 | -6.8  | 1,560 | 1,572 | 0.8   | 2,5 | 2.3 | 150.2 | · NE |
| К  | 324 | 14     | 15    | 7,1   | 7     | 9     | 28.6  | 2.0 | 1.7 | 168.3 | NE   |
| K  | 325 | 6,011  | 5,747 | -4.4  | 2,445 | 2,404 | -1.7  | 2.5 | 2.4 | 207.8 | NE   |
| Κ  | 326 | 7,195  | 6,733 | -6.4  | 2,666 | 2,615 | -1.9  | 2.7 | 2.6 | 199.9 | NE   |
| К  | 327 | 284    | 307   | 8.1   | 104   | 86    | -17.3 | 2.7 | 3.6 | 340.8 | NE   |
| K  | 329 | 4,385  | 4,216 | -3.9  | 1,819 | 1,876 | 3.1   | 2.4 | 2.2 | 233.0 | NE   |
| K  | 330 | 8,122  | 7,408 | -8.8  | 2,890 | 2,896 | 0.2   | 2.8 | 2.6 | 184.1 | NE   |

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| к         | 331            | 9,370   | 9,099   | -2.9  | 3,718  | 3,729   | 0.3    | 2.5    | 2.4 | 294.3    | NE   |
|-----------|----------------|---------|---------|-------|--------|---------|--------|--------|-----|----------|------|
| К         | 332            | 2,824   | 2,594   | -8.1  | 1,018  | 1,032   | 1.4    | 2.8    | 2.5 | 207.1    | NE   |
| К         | 333            | 3,842   | 4,025   | 4.8   | 1,530  | 1,620   | 5.9    | 2.5    | 2,5 | 257.2    | NE   |
| К         | 334            | 4,812   | 4,456   | -7.4  | 2,076  | 2,104   | 1.3    | 2.3    | 2.1 | 291.1    | NE   |
| К         | 335            | 3,481   | 3,400   | -2.3  | 1,411  | 1,554   | 10.1   | 2.5    | 2.2 | 226.6    | NE   |
| К         | 336            | 6,751   | 6,148   | -8.9  | 3,028  | 2,870   | -5.2   | 2.2    | 2.1 | 279.5    | NE   |
| К         | 337            | 9,671   | 9,025   | -6.7  | 4,265  | 4,424   | 3.7    | 2.3    | 2.0 | 504.3    | NE   |
| К         | 338            | 5,655   | 5,461   | -3.4  | 2,391  | 2,401   | 0.4    | 2.4    | 2.3 | 344.5    | NE   |
| К         | 339            | 3,044   | 2,862   | -6.0  | 1,310  | 1,319   | 0.7    | 2.3    | 2.2 | 281.7    | NE   |
| К         | 340            | - 2,820 | 2,518   | -10.7 | 994    | 1,022   | 2.8    | 2.8    | 2.5 | 187.1    | NE   |
| K         | 341            | 5,775   | 5,567   | -3.6  | 2,591  | 2,601   | 0.4    | 2.2    | 2.1 | 333.8    | NE   |
| К         | 342            | 3,134   | 3,369   | 7.5   | 1,115  | 1,450   | 30.0   | 2.8    | 2.3 | 245.1    | NE   |
| к         | <u>3</u> 67 \$ | 0       | 3       | 100.0 | 0      | 1       | 100.0  | 0.0    | 3.0 | 1.2      | NE   |
| Subtotal: |                | 248,559 | 237,251 | -4.5  | 99,929 | 100,289 | 0.4    | 2.5    | 2.4 | 11,352.5 |      |
| ۰L        | 328            | 2,671   | 5,371   | 101.1 | 1      | 0       | -100.0 | 2671.0 | ID  | 662.2    | NE   |
| L         | 343            | 171     | 168     | -1.8  | 54     | 58      | 7.4    | 3.2    | 2.9 | 1,336.3  | NE   |
| L         | 344            | 8,641   | 7,792   | -9.8  | 2,802  | 2,822   | 0.7    | 3.1    | 2.8 | 852.0    | NE   |
| L         | 345            | 5,852   | 7,947   | 35.8  | 3,150  | 4,381   | 39.1   | 1.9    | 1.8 | 355.6    | NE   |
| L         | 346            | 1,456   | 1,397   | -4.1  | 911    | 949     | 4.2    | 1.6    | 1.5 | 453.7    | NE   |
| L         | 347            | 11,864  | 10,557  | -11.0 | 4,043  | 4,028   | -0.4   | 2.9    | 2.6 | 530.8    | NE   |
| L         | 348            | 15,947  | 14,902  | -6.6  | 5,853  | 6,052   | 3.4    | 2.7    | 2.5 | 967.7    | NE   |
| L         | 349            | 7,583   | 7,002   | -7.7  | 2,682  | 2,676   | -0.2   | 2.8    | 2.6 | 483.3    | NE   |
| L         | 351            | 2,650   | 3,808   | 43.7  | 1,256  | 2,279   | 81.4   | 2.1    | 1.7 | 243.6    | NE   |
| L         | 352            | 4,896   | 4,580   | -6.5  | 1,683  | 1,714   | 1.8`   | 2.9    | 2.7 | 461.8    | NE   |
| L         | 353            | 11,617  | 10,742  | -7.5  | 3,825  | 4,004   | 4.7    | 3.0    | 2.7 | 757.1    | NE   |
| L.        | 354            | 5       | 31      | 520.0 | 2      | 4       | 100.0  | 2.5    | 7.8 | 1,889.9  | - NE |
| L         | 355            | 8,243   | 6,953   | -15.6 | 3,368  | 3,006   | -10.7  | 2.4    | 2.3 | 576.0    | NE   |
| L         | 356            | 7,691   | 8,376   | 8.9   | 2,540  | 3,573   | 40.7   | 3.0    | 2.3 | 850.0    | NE   |
| L         | 357            | 8,763   | 8,670   | -1.1  | 3,742  | 3,869   | 3.4    | 2.3    | 2.2 | 530.0    | NE   |
| L         | 358            | 7,172   | 6,113   | -14.8 | 2,368  | 2,344   | -1.0   | 3.0    | 2.6 | 434.7    | NE   |
| L         | 359            | 4,298   | 5,454   | 26.9  | 1,442  | 2,235   | 55.0   | 3.0    | 2.4 | 558.5    | NE   |
| L         | 360            | 2,787   | 3,061   | 9.8   | 829    | 991     | 19.5   | 3.4    | 3.1 | 575.3    | NE   |
|           |                |         |         |       |        |         |        |        |     |          |      |

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| 1<br>1927-19-05 | <u> </u>    |           | ées eu    |       |         | en a prising  | fairen y fair . | and the second | ( )   |          | 23 |
|-----------------|-------------|-----------|-----------|-------|---------|---------------|-----------------|----------------|-------|----------|----|
|                 |             |           |           |       |         |               |                 |                |       |          |    |
| L               | 361         | 4,764     | 4,046     | -15.1 | 1,569   | 1,650         | 5.2             | 3.0            | 2.5   | 300.0    | NE |
| L               | 362         | 19,565    | 17,971    | -8.1  | 6,118   | 6,484         | 6.0             | 3.2            | 2.8   | 904.6    | NE |
| L               | 363         | 17,998    | 15,723    | -12.6 | 5,096   | 5, <b>157</b> | 1.2             | 3.5            | 3.0   | 1,336.8  | NE |
| L               | <b>3</b> 64 | 1,261     | 547       | -56.6 | 3       | 2             | -33,3           | 420.3          | 273.5 | 1,072.7  | NE |
| L               | 365         | 7,476     | 9,336     | 24.9  | 2,644   | 3,684         | 39.3            | 2.8            | 2.5   | 888.3    | NE |
| Subtotal        |             | 163,371   | 160,547   | -1.7  | 55,981  | 61,962        | 10.7            | 2.9            | 2.6   | 17,020.9 |    |
| Total:          |             | 1,688,210 | 1,585,577 | -6.1  | 685,131 | 674,899       | -1.5            | 2,5            | 2.3   | 86,483.0 |    |

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\* Population living on boats, adjacent to tract \$ One house, minimal acerage

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## City of Philadelphia 1980-1990 Census Data Comparison

|                                 |              |                             | Population                  |                              |                        |                                   |                                   | Housing                      |                                               |                                               |                         |
|---------------------------------|--------------|-----------------------------|-----------------------------|------------------------------|------------------------|-----------------------------------|-----------------------------------|------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------|
| Planning<br>Analysis<br>Section | Tract<br>No. | 1980<br>Total<br>Population | 1990<br>Total<br>Population | Percent<br>Change<br>80 - 90 | Tract<br>Area<br>Acres | 1980<br>Total<br>Housing<br>Units | 1990<br>Total<br>Housing<br>Units | Percent<br>Change<br>80 - 90 | 1980<br>Housing<br>Density<br>Persons/<br>EDU | 1990<br>Housing<br>Density<br>Persons/<br>EDU | WWTP<br>Service<br>Area |
| E                               | 164 (5%)     | 307                         | 279                         | -9.1                         | 5.9                    | 107                               | 88                                | -17.8                        | 2.9                                           | 3.2                                           | NE                      |
| F                               | 171 (5%)     | 304                         | 264                         | -13.2                        | 14.1                   | 97                                | 95                                | -2.1                         | 3.1                                           | 2.8                                           | NE                      |
| F                               | 173          | 3,993                       | 3.815                       | -4.5                         | 217.0                  | 1.615                             | 1.662                             | 2.9                          | 2.5                                           | 2.3                                           | NE                      |
| F                               | 174          | 3,780                       | 3,406                       | -9.9                         | 86.0                   | 1,667                             | 1,269                             | -23.9                        | 2.3                                           | 2.7                                           | NE                      |
| F                               | 175 (45%)    | 4.348                       | 4.055                       | -6.7                         | 79.5                   | 1.522                             | 1.380                             | -9.3                         | 2.9                                           | 2.9                                           | NE                      |
| F                               | 194          | 281                         | 361                         | 28.5                         | 332.6                  | 124                               | 138                               | 11.3                         | 2.3                                           | 2.6                                           | NE                      |
| F                               | 195 (60%)    | 5.039                       | 5.224                       | 3.7                          | 116.2                  | 1.909                             | 1.781                             | -6.7                         | 2.6                                           | 2.9                                           | NE                      |
| F                               | 196          | 2,390                       | 2.639                       | 10.4                         | 185.3                  | 968                               | 945                               | -2,4                         | 2.5                                           | 2.8                                           | NE                      |
| F                               | 197          | 7.213                       | 7,736                       | 7.3                          | 210.8                  | 2.379                             | 2.427                             | 2.0                          | 3.0                                           | 3.2                                           | NE                      |
| F                               | 198          | 7,486                       | 6,966                       | -6.9                         | 133.4                  | 2,344                             | 2,232                             | -4.8                         | 3.2                                           | 3.1                                           | NE                      |
| F                               | 199          | 5,827                       | 5,390                       | -7.5                         | 164.6                  | 2,031                             | 1,683                             | -17.1                        | 2.9                                           | 3.2                                           | NE                      |
| F                               | 200          | 2,536                       | 2,176                       | -14.2                        | 79.6                   | 983                               | 881                               | -10.4                        | 2.6                                           | 2.5                                           | NE                      |
| F                               | 201          | 9,799                       | 8,049                       | -17.9                        | 215.7                  | 5,488                             | 3,851                             | -29.8                        | 1.8                                           | 2.1                                           | NE                      |
| F                               | 202( 70%)    | 5,151                       | 4,271                       | -17.1                        | 132.2                  | 2,351                             | 1,910                             | -18.8                        | 2.2                                           | 2.2                                           | NE                      |
| F                               | 203          | 4,752                       | 3,780                       | -20.5                        | 130.0                  | 1,902                             | 1,611                             | -15.3                        | 2.5                                           | 2.3                                           | NE                      |
| F                               | 204          | 4,217                       | 3,805                       | -9.8                         | 101.8                  | 1,557                             | 1,426                             | -8.4                         | 2.7                                           | 2.7                                           | NE                      |
| F                               | 205 (85%)    | 2,791                       | 2,941                       | 5.4                          | 301.0                  | 1,191                             | 1,331                             | 11.8                         | 2.3                                           | 2.2                                           | NE                      |
| G,                              | 177 (20%)    | 1,824                       | 1,719                       | -5.8                         | 35.3                   | 749                               | 682                               | -8.9                         | 2.4                                           | 2.5                                           | NE                      |
| G                               | 178 (75%)    | 5,161                       | 4,689                       | -9.1                         | 125.6                  | 2,255                             | 2,109                             | -6.5                         | 2.3                                           | 2.2                                           | NE                      |
| G                               | 179          | 6,895                       | 6,435                       | -6.7                         | 167.8                  | 2,690                             | 2,610                             | ~3.0                         | 2.6                                           | 2.5                                           | NE                      |
| G                               | 180          | 8,699                       | 8,419                       | -3.2                         | 201.1                  | 3,696                             | 3,755                             | 1.6                          | 2.4                                           | 2.2                                           | NE                      |
| G                               | 181          | 191                         | 197                         | 3.1                          | 170.7                  | 106                               | 103                               | -2.8                         | 1.8                                           | 1.9                                           | NE                      |
| G                               | 182          | 382                         | 375                         | -1.8                         | 581.7                  | 179                               | 179                               | 0.0                          | 2.1                                           | 2.1                                           | NE                      |
| G                               | 182.99 *     | 43                          | 0                           | -100.0                       | N/A                    | N/A                               | N/A                               | N/A                          | N/A                                           | N/A                                           | NE                      |

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| G  | 183                | 4,501         | 4,225         | -6.1  | 520.6 | 1,702       | 1,708 | 0.4   | 2.6 | 2.5 | NE   |
|----|--------------------|---------------|---------------|-------|-------|-------------|-------|-------|-----|-----|------|
| G  | 184                | 2,328         | 2,306         | -0.9  | 282.4 | <b>87</b> 5 | 885   | 1.1   | 2.7 | 2.6 | NE   |
| G  | 185                | 147           | 134           | -8,8  | 163.6 | 67          | 69    | 3.0   | 2.2 | 1.9 | NE   |
| G  | 1 <b>86</b>        | 5,163         | 4,821         | -6.6  | 176.2 | 2,128       | 2,168 | 1.9   | 2.4 | 2.2 | NE   |
| G  | 187                | 1,834         | 1,773         | -3.3  | 198.9 | 709         | 727   | 2.5   | 2.6 | 2.4 | NE   |
| G  | 188                | 7,432         | 7,167         | -3.6  | 166.3 | 2,946       | 2,923 | -0.8  | 2,5 | 2.5 | NE   |
| G  | 189                | 1,077         | 1,013         | -5.9  | 252.5 | 389         | 386   | -0.8  | 2.8 | 2.6 | NE   |
| G  | 190                | 6,761         | 6,428         | -4.9  | 196.9 | 2,649       | 2,624 | -0.9  | 2.6 | 2.4 | NE   |
| G  | 191                | 6 <b>,748</b> | 6,060         | -10.2 | 359.5 | 2,795       | 2,747 | -1.7  | 2.4 | 2.2 | NE   |
| G  | 192                | 7,364         | 7,0 <b>78</b> | -3.9  | 162.8 | 2,832       | 2,769 | -2.2  | 2.6 | 2.6 | NE   |
| G  | 193                | 131           | 134           | 2.3   | 280.7 | 50          | 44    | -12.0 | 2.6 | 3.0 | NE   |
| I  | 206 (10%)          | 184           | 161           | -12.5 | 31.8  | 111         | 110   | -0.9  | 1.7 | 1.5 | NE   |
| I  | 237 (40%)          | 2,206         | 2,140         | -3.0  | 107.0 | 983         | 977   | -0.6  | 2.2 | 2.2 | NE   |
| F  | 238 (25%)          | 1,235         | 1,163         | -5.8  | 48.8  | 626         | 616   | -1.6  | 2.0 | 1.9 | NE   |
| I. | 2 <b>4</b> 0 (30%) | 1,223         | 1,258         | 2.9   | 45.9  | 676         | 696   | 3.0   | 1.8 | 1.8 | NE   |
| I  | 241 <b>(</b> 75%)  | 1,097         | 1,121         | 2.2   | 76.0  | 635 ·       | 548   | -13.7 | 1.7 | 2.0 | NE   |
| I  | 242                | 4,807         | 4,312         | -10.3 | 132.7 | 2,074       | 1,889 | -8.9  | 2.3 | 2.3 | NE   |
| I  | 243                | 4,511         | 4,294         | -4.8  | 167.0 | 1,971       | 2,015 | 2.2   | 2.3 | 2.1 | NE   |
| I  | 244                | 4,200         | 3,671         | -12.6 | 103.8 | 1,639       | 1,399 | -14.6 | 2.6 | 2.6 | NE   |
| Ι  | 245                | 4,598         | 4,527         | -1.5  | 199.4 | 1,925       | 1,797 | -6.6  | 2.4 | 2.5 | NE   |
| 1  | 246                | 3,633         | 3,310         | -8.9  | 153.2 | 1,415       | 1,342 | -5.2  | 2.6 | 2.5 | NE   |
| I  | <b>247</b> ·       | 5,823         | 5,640         | -3.1  | 231.8 | 2,273       | 2,107 | -7.3  | 2.6 | 2.7 | NE   |
| 1  | 248                | 2,719         | 2,210         | -18.7 | 80.6  | 906         | 829   | -8.5  | 3.0 | 2.7 | NE   |
| I. | 249                | 4,446         | 4,144         | 0.0   | 80.3  | 1,461       | 1,453 | -0.5  | 3.0 | 2.9 | NE   |
| I  | 250                | 909           | 914           | 0.6   | 184.1 | 349         | 334   | -4.3  | 2.6 | 2.7 | NE   |
| I  | 251                | 2,448         | 2,275         | -7.1  | 132.2 | 965         | 1,001 | 3.7   | 2.5 | 2.3 | NE   |
| 1  | 252                | 8,268         | 7,379         | -10.8 | 233.5 | 3,318       | 3,077 | -7.3  | 2.5 | 2.4 | NE   |
| E. | 253                | 4,911         | 4,315         | -12.1 | 141.3 | 2,027       | 1,923 | -5.1  | 2.4 | 2.2 | · NE |
| 1  | 254                | 4,977         | 4,548         | -8.6  | 191.0 | 2,078       | 2,057 | -1.0  | 2.4 | 2.2 | NE   |
| I  | 255 (95%)          | 2,914         | 2,753         | -5.5  | 182.2 | 1,154       | 1,260 | 9.2   | 2.5 | 2,2 | NE   |
| 1  | 256 (20%)          | 614           | 594           | -3.3  | 42.9  | 239         | 252   | 5.4   | 2.6 | 2.4 | NE   |
| J  | 258 (55%)          | 1,158         | 1,011         | -12.7 | 79.4  | 419         | 428   | 2.1   | 2.8 | 2.4 | NE   |
| J  | 259 (65%)          | 3,810         | 3,582         | -6.0  | 87.9  | 1,445       | 1,394 | -3.5  | 2.6 | 2.6 | NE   |
| J  | 260                | 3,625         | 3,502         | -3.4  | 133.9 | 1,247       | 1,259 | 1.0   | 2.9 | 2.8 | NE   |
|    |                    |               |               |       |       |             |       |       |     |     |      |

| .1      | 261 | 3 798          | 3 625          | -46   | 164.3 | 1 464  | 1 447          | -12   | 26         | 25  | NE |
|---------|-----|----------------|----------------|-------|-------|--------|----------------|-------|------------|-----|----|
| J       | 262 | · 5371         | 5 177          | -3.6  | 137 1 | 1 838  | 1,943          | 0.3   | 29         | 2.8 | NE |
| J       | 263 | 11,474         | 11 011         | -4.0  | 272.8 | 3,853  | 3 829          | -0.6  | 3.0        | 2.9 | NE |
| J       | 264 | 6.841          | 6 443          | -5.8  | 196.9 | 2 255  | 2 288          | 1.5   | 3.0        | 2.8 | NF |
|         | 265 | 5,798          | 5,367          | -74   | 136.4 | 1 905  | 1 875          | -1.6  | 3.0        | 2.0 | NE |
| J       | 266 | 8,328          | 7,490          | -10.1 | 222 4 | 2 666  | 2 641          | -0.9  | 3.1        | 2.8 | NE |
| .1      | 267 | 8,650          | 7 834          | 100.0 | 158.9 | 2,800  | 2 742          | -2.6  | 3.1        | 29  | NE |
| .1      | 268 | 4 933          | 4 644          | -59   | 189.5 | 2,010  | 2 014          | -8.1  | 23         | 23  | NE |
| J       | 269 | 2.023          | 2,294          | 13.4  | 154.2 | 808    | 728            | -9.9  | 2.5        | 3.2 | NF |
| J       | 270 | 2 474          | 2 275          | -80   | 158.4 | 995    | 956            | -3.9  | 2.5        | 24  | NE |
| .1      | 271 | 2 206          | 2,210          | 11.3  | 93.2  | 974    | 1 107          | 13.7  | 2.3        | 2.1 | NE |
| .1      | 272 | 4 739          | 4 446          | -6.2  | 162.8 | 1 938  | 1 990          | 27    | 2.0        | 2.2 | NE |
| .1      | 273 | 5.316          | 5 525          | 39    | 230.5 | 2 154  | 2 131          | 1 1   | 25         | 26  | NE |
|         | 274 | 8 911          | 9,620          | 80    | 200.0 | 3 714  | 3 637          | -2.1  | 2.0        | 2.0 | NE |
|         | 275 | 4 516          | 4 651          | 3.0   | 152 5 | 1 823  | 1 709          | -63   | 25         | 2.0 | NE |
| Л       | 276 | 4,505          | 4 250          | -7.5  | 163.8 | 1,020  | 1,700          | 4.3   | 2.6        | 2.7 | NE |
| .1      | 270 | 5 994          | 5 358          | -10.5 | 135.7 | 2 332  | 2 253          | -3.4  | 2.0        | 2.0 | NE |
| .1      | 278 | 6,005          | 5 262          | -12.4 | 180.4 | 2,002  | 2,200          | -0.1  | 23         | 2.7 | NE |
| .1      | 270 | 8 549          | 7 901          | -76   | 319.5 | 2,070  | 2,010          | -2.1  | 2.0        | 2.0 | NE |
| .1      | 280 | 5 /63          | 5 210          | -7.0  | 176 7 | 1 7/5  | 1 025          | 10.3  | -2.5       | 2.0 | NE |
| .1      | 281 | 4 581          | 4 377          | -4.5  | 125.3 | 1,7 40 | 1,323          | -7.2  | 20         | 2.7 | NE |
| .1      | 282 | 6 034          | -,077<br>6.016 | -4,5  | 213.5 | 2 352  | 2 176          | -7.5  | 2.5        | 28  | NE |
| .1      | 283 | 0,004          | 8 746          | -0.0  | 167.9 | 2,002  | 2,170          | -11.2 | 2.0        | 2.0 | NE |
| .1      | 284 | 6 991          | 5 965          | -14.9 | 1176  | 2 236  | 0,220          | -11.2 | 2.7        | 2.1 | NE |
| 1       | 285 | 2 167          | 2,000          | -14.0 | 70.7  | 2,200  | 2,140          | -0.9  | 0.1<br>0.1 | 2.7 |    |
| 1       | 200 | 2,107<br>6,690 | 7 114          | 73    | 160.9 | 2 512  | 040<br>2 2 2 0 | -4.0  | 2.4        | 2.7 |    |
| 1       | 200 | 2 200          | 7,114          | 7.3   | 97.5  | 2,313  | 2,000          | -7.0  | 2.0        | 0.0 |    |
| 3       | 201 | 2,233          | 2,400          | 7.4   | 114.0 | 1 516  | 1 420          | -2.0  | 2.0        | 2.0 |    |
| J.<br>1 | 200 | 3,090          | 0,000          | 1.2   | 114.9 | 1,010  | 1,402          | -5.5  | 2.4        | 2.7 |    |
| J       | 209 | 0,900          | 0,404<br>5,670 | -5.3  | 292.1 | 3,271  | 3,202          | -2.1  | 2.1        | 2.0 |    |
| J       | 290 | 5,437          | 5,670          | 4.3   | 198.7 | 2,155  | 2,134          | -1.0  | 2.5        | 2.7 |    |
| к<br>И  | 291 | 4,203          | 4,401          | 4.0   | 334.8 | 1,092  | 1,673          | -1.1  | 2.5        | 2.7 |    |
| к<br>И  | 292 | 4,015          | 3,900          | -1.2  | 421.1 | 1,398  | 1,407          | 0.0   | 2.9        | 2.8 |    |
| К<br>И  | 293 | 3,039          | 2,878          | -5,3  | 1/2.2 | 1,270  | 1,228          | -3.3  | 2.4        | 2,3 | NE |
| ĸ       | 294 | 3,352          | 3,216          | -4,1  | 104.6 | 1,492  | 1,288          | -13.7 | 2.2        | 2.5 | NE |

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