New York State Department of Environmental Conservation



Division of Materials Management

FINAL ANNUAL REPORT FOR NEW YORK STATE PESTICIDE SALES AND APPLICATIONS 2006

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Executive Summary

The New York State Department of Environmental Conservation (Department), in conjunction with Cornell University, presents this report on the final 2006 pesticides sales and application data submitted under Environmental Conservation Law Article 33, Title 12, known as the Pesticide Reporting Law (PRL). The finalized data have been incorporated into a master database maintained by Cornell University. This database is accessible by the public and is an information source for health researchers or other users of the data.

The final data show there were just under 6 million "records" of applications and sales reported for 2006, totaling over 496 million keystrokes of data. The total amount of pesticides reported as applied by commercial applicators in 2006 was 3,116,212 gallons and 22,261,956 pounds. This compares to 2,818,640 gallons and 17,560,974 pounds in 2005.

Please note: Although the Department and Cornell University have gone to great lengths to assure the quality of the data, there are still significant concerns regarding the validity of the data received from the regulated community. Users of this data are strongly cautioned about limitations of the data. Users of the data are advised to go to the PRL Annual Reports page to review information regarding data quality limitations (http://www.dec.ny.gov/chemical/97535.html).

For the 2006 report year, the total number of applicators, technicians and permittees reporting was:

16,438 Commercial Applicators and Technicians

272 Commercial Permittees (Sales)

These figures indicate 94 percent of the 17,483 certified applicators and technicians, and 86 percent of the 317 commercial permittees reported for 2006. The Department will continue to provide outreach and education to the regulated community in an attempt to achieve maximum compliance with the reporting requirement.

The Department, in conjunction with Cornell, continues to operate a website for regulated entities to report their sales and applications data. The electronic reporting programs enable users to keep their pesticide records on a computer and to report their sales and applications to the Department. The data can be submitted to the Department via e-mail, floppy disk, zip disk, CD ROM, or FTP (File Transfer Protocol). This user-friendly approach to submission improves the quality of the data received. It is also a

more cost effective method of reporting for both the regulated community and the Department.

Electronic submissions of PRL sales and applications reports for 2006 increased by 0.5%, compared with 2005. These submissions contained data for 8,793 applicators/technicians and 155 commercial permit holders, compared to 8,740 applicators/technicians and 161 commercial permit holders in 2005. The total number of 2006 records was 3,865,774 compared to 3,897,655 records in 2005, a 0.8% decrease.

As part of our standard quality assurance processes, the Department and Cornell identified reports that contained quantities that appeared to fall outside of accepted parameters. Staff reviewed reports containing these "out-of-range" quantities and the responsible applicators and businesses were contacted. Reporting errors were corrected by staff with the approval of the applicator or business. The corrected data were forwarded to Cornell to supercede the original reports in the database.

The Department's long-term goal is to continually improve the reporting rate and data quality by raising the threshold for report acceptance each year. The Department continues to refine its front-line quality control program where Department staff evaluate incoming reports to ensure basic criteria were met. The criteria were established to maximize the volume of data that would be transferrable into Cornell's master database. If a report did not meet these criteria, Department staff sought to correct the report with the person filing the report. If the errors were too numerous, the report was rejected and returned to the business or applicator to be corrected and resubmitted.

The above procedures helped eliminate some of the constraints on data quality identified in previous annual reports; however, some constraints remain. The Department intends to eliminate as many constraints as possible by expanding the list of acceptance criteria. In this way, the acceptance threshold will rise continuously but gradually, paralleling the learning curve for the regulated community, the Department and Cornell. The goal is to maximize the quantity and quality of data available to health researchers and other users of the data.

The Department took enforcement actions against those entities who failed to report for the year 2006. An Order on Consent was sent to approximately 1,090 certified commercial pesticide applicators and technicians and commercial permit holders who did not report for the year 2006. As a result of this action, many of those entities were assessed a civil penalty. Many other applicators and technicians elected to voluntarily surrender their certification instead of paying a penalty. The result of this surrender is they are no longer certified to make commercial pesticide applications. Those entities who did not settle the violation will not be granted renewal privileges until their violation is resolved.

To make the information presented more easily understood and in response to recommendations, the Department is moving toward translating the volume (gallons) of pesticides reported into pounds. In order to convert the volume of a liquid into pounds,

the specific gravity of the liquid must be known. The Department changed its product registration practices to capture the specific gravity of each liquid pesticide product as it is registered for sale or use in New York State. There are currently 13,793 registered products in New York State. Of these, approximately 6,173 are liquid formulations. To date, the specific gravity data for most of those products has been obtained. We expect to complete this transition within the coming months and at that point, will be able to provide the information as pounds only.

The following totals are those most frequently requested:

Total amount of pesticides applied by commercial applicators in New York State in 2006:

- 3,116,212 Gallons
- 22,261,956 Pounds

The three largest total amounts of pesticide products applied by commercial applicators, by weight, were:

- Lesco Pre-M Plus Fertilizer Insecticide (EPA Registration No. 10404-82) *
- Lesco Merit Plus Turf Fertilizer (EPA Registration No. 432-1349-10404) *
- Andersons Fertilizer with Barricade Herbicide (EPA Registration No. 9198-123) *

*This product contains small amounts of pesticides combined with large amounts of fertilizer and other ingredients. The weight reported here is the weight of all ingredients, not the weight of pesticides alone.

The three largest total amounts of pesticide products applied by commercial applicators, by volume, were:

- Sur-Shock/Surchlor Plus Disinfectant (EPA Registration No. 9359-2)
- Superchlor Disinfectant (EPA Registration No. 59074-20001)
- Omni Supreme Spray (EPA Registration No. 5905-368)

Total amount of pesticides sold to private applicators for agricultural use in New York State in 2006:

- 777,184 Gallons
- 5,421,896 Pounds

The three largest total amounts of pesticide products sold to private applicators, by weight, were:

- Force 3G Insecticide (EPA Registration No. 100-1075)
- Penncozeb 75 DF Fungicide (EPA Registration No. 4581-370)

 Signature Dimension 0.10 Plus Fertilizer (EPA Registration No. 62719-486-65783)

The three largest total amounts of pesticide products sold to private applicators, by volume, were:

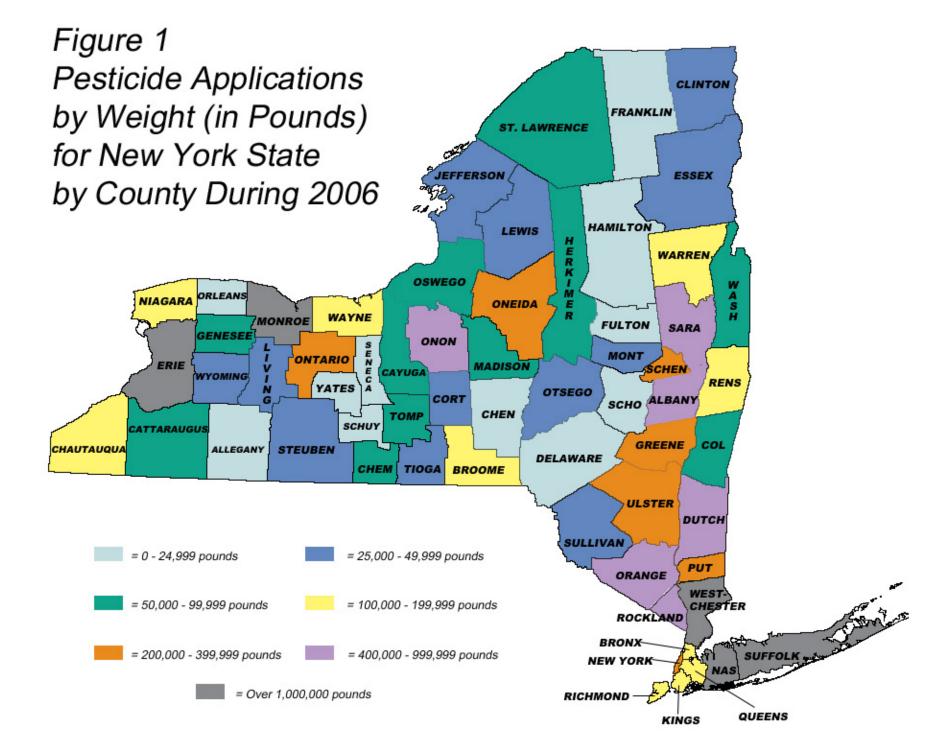
- Lumax Selective Herbicide (EPA Registration No. 100-1152)
- Credit 41 Non-Selective Herbicide (EPA Registration No. 71368-20)
- Roundup Original Max Herbicide (EPA Registration No. 524-539)

Total amount of pesticides sold to distributors for resale in New York State in 2006 was:

- 456,511 Gallons
- 4,865,925 Pounds

Total amount of pesticides sold to applicators for end use in New York State in 2006 was:

- 113,283 Gallons
- 1,184,359 Pounds

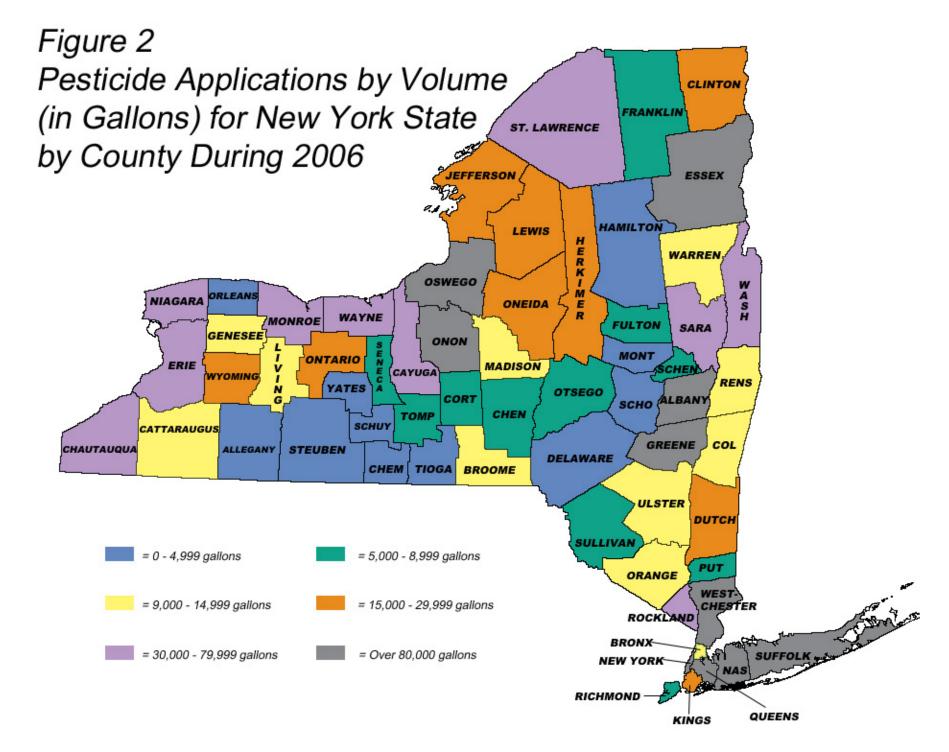


2006 Figure 1 Text

Pesticide Applications by Weight (in Pounds) for New York State by County During 2006

| County | Amount* |
|-------------|-----------|
| Albany | 926,717 |
| Allegany | 16,196 |
| Bronx | 140,989 |
| Broome | 151,481 |
| Cattaraugus | 51,185 |
| Cayuga | 79,320 |
| Chautauqua | 153,326 |
| Chemung | 66,472 |
| Chenango | 16,008 |
| Clinton | 26,843 |
| Columbia | 68,134 |
| Cortland | 42,238 |
| Delaware | 22,822 |
| Dutchess | 544,656 |
| Erie | 1,860,402 |
| Essex | 28,698 |
| Franklin | 24,103 |
| Fulton | 19,921 |
| Genesee | 62,084 |
| Greene | 348,977 |
| Hamilton | 19,924 |
| Herkimer | 52,428 |
| Jefferson | 49,241 |
| Kings | 169,535 |
| Lewis | 28,524 |
| Livingston | 40,437 |
| Madison | 82,539 |
| Monroe | 2,311,953 |
| Montgomery | 41,527 |
| Nassau | 1,943,997 |
| New York | 310,087 |
| Niagara | 198,898 |
| Oneida | 265,119 |
| Onondaga | 804,406 |
| Ontario | 261,908 |
| Orange | 612,650 |

| County | Amount* | |
|--------------|-----------|--|
| Orleans | 16,741 | |
| Oswego | 54,131 | |
| Otsego | 34,089 | |
| Putnam | 218,219 | |
| Queens | 184,405 | |
| Rensselaer | 148,076 | |
| Richmond | 168,843 | |
| Rockland | 905,386 | |
| St. Lawrence | 60,273 | |
| Saratoga | 657,527 | |
| Schenectady | 416,867 | |
| Schoharie | 7,423 | |
| Schuyler | 3,380 | |
| Seneca | 17,557 | |
| Steuben | 47,210 | |
| Suffolk | 3,871,713 | |
| Sullivan | 32,097 | |
| Tioga | 33,376 | |
| Tompkins | 68,233 | |
| Ulster | 346,205 | |
| Warren | 182,536 | |
| Washington | 55,058 | |
| Wayne | 137,868 | |
| Westchester | 2,634,225 | |
| Wyoming | 44,896 | |
| Yates | 5,482 | |

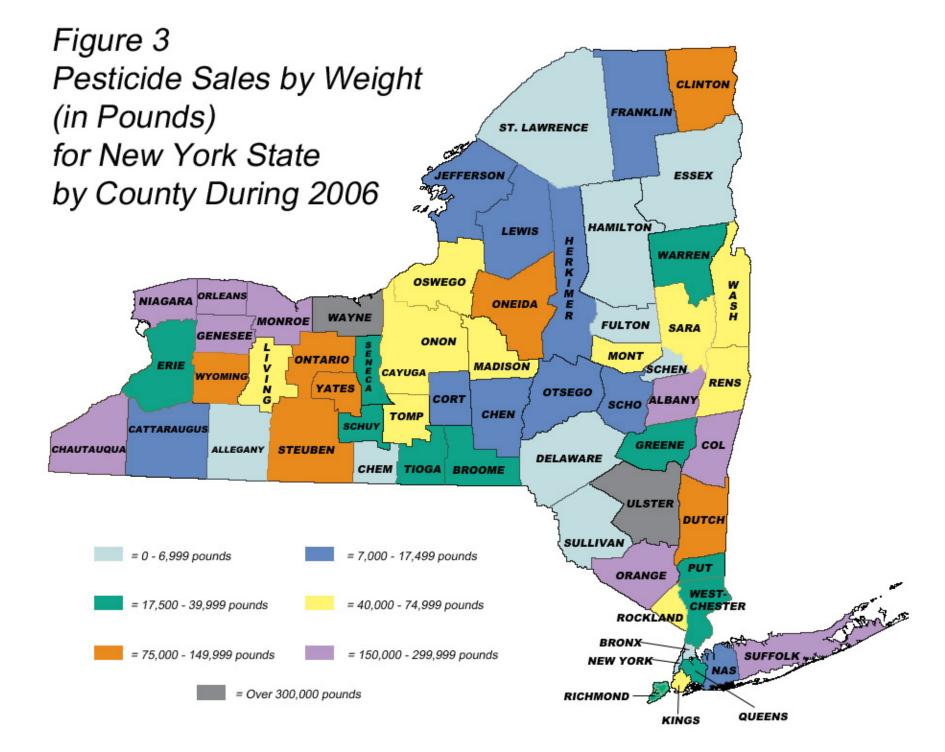


2006 Figure 2 Text

Pesticide Applications by Volume (in Gallons) for New York State by County During 2006

| County | Amount* |
|-------------|---------|
| Albany | 120,637 |
| Allegany | 4,739 |
| Bronx | 11,006 |
| Broome | 11,933 |
| Cattaraugus | 10,088 |
| Cayuga | 57,070 |
| Chautauqua | 31,101 |
| Chemung | 2,758 |
| Chenango | 5,571 |
| Clinton | 21,925 |
| Columbia | 11,452 |
| Cortland | 7,218 |
| Delaware | 4,506 |
| Dutchess | 26,383 |
| Erie | 69,651 |
| Essex | 324,222 |
| Franklin | 8,635 |
| Fulton | 6,878 |
| Genesee | 13,144 |
| Greene | 137,023 |
| Hamilton | 287 |
| Herkimer | 21,759 |
| Jefferson | 28,493 |
| Kings | 19,511 |
| Lewis | 15,352 |
| Livingston | 11,244 |
| Madison | 9,307 |
| Monroe | 49,428 |
| Montgomery | 4,406 |
| Nassau | 150,399 |
| New York | 108,728 |
| Niagara | 59,651 |
| Oneida | 16,195 |
| Onondaga | 90,643 |
| Ontario | 18,486 |
| Orange | 14,670 |

| County | Amount* |
|--------------|---------|
| Orleans | 3,365 |
| Oswego | 214,483 |
| Otsego | 6,141 |
| Putnam | 7,256 |
| Queens | 92,224 |
| Rensselaer | 14,192 |
| Richmond | 8,473 |
| Rockland | 36,802 |
| St. Lawrence | 34,634 |
| Saratoga | 69,966 |
| Schenectady | 8,242 |
| Schoharie | 3,204 |
| Schuyler | 1,327 |
| Seneca | 8,691 |
| Steuben | 4,601 |
| Suffolk | 271,450 |
| Sullivan | 8,425 |
| Tioga | 2,050 |
| Tompkins | 7,096 |
| Ulster | 9,842 |
| Warren | 10,364 |
| Washington | 34,767 |
| Wayne | 74,696 |
| Westchester | 650,392 |
| Wyoming | 23,860 |
| Yates | 1,063 |



2006 Figure 3 Text

Pesticide Sales by Weight (in Pounds) for New York State by County During 2006

| County | Amount* |
|-------------|---------|
| Albany | 230,047 |
| Allegany | 6,434 |
| Bronx | 144 |
| Broome | 27,785 |
| Cattaraugus | 16,339 |
| Cayuga | 64,225 |
| Chautauqua | 166,988 |
| Chemung | 4,762 |
| Chenango | 12,143 |
| Clinton | 108,790 |
| Columbia | 156,845 |
| Cortland | 10,523 |
| Delaware | 1,649 |
| Dutchess | 126,215 |
| Erie | 36,279 |
| Essex | 2,557 |
| Franklin | 10,814 |
| Fulton | 5,668 |
| Genesee | 224,322 |
| Greene | 18,423 |
| Hamilton | |
| Herkimer | 7,403 |
| Jefferson | 16,430 |
| Kings | 43,713 |
| Lewis | 16,979 |
| Livingston | 46,983 |
| Madison | 40,995 |
| Monroe | 188,687 |
| Montgomery | 40,992 |
| Nassau | 16,186 |
| New York | 711 |
| Niagara | 179,577 |
| Oneida | 102,889 |
| Onondaga | 73,553 |
| Ontario | 122,515 |

| County | Amount* |
|--------------|-----------|
| Orange | 174,178 |
| Orleans | 272,224 |
| Oswego | 72,396 |
| Otsego | 11,941 |
| Putnam | 31,612 |
| Queens | 21,155 |
| Rensselaer | 48,249 |
| Richmond | 39,171 |
| Rockland | 40,569 |
| St. Lawrence | 6,579 |
| Saratoga | 49,108 |
| Schenectady | 6,851 |
| Schoharie | 9,273 |
| Schuyler | 23,510 |
| Seneca | 35,589 |
| Steuben | 137,379 |
| Suffolk | 156,555 |
| Sullivan | 1,202 |
| Tioga | 36,820 |
| Tompkins | 43,590 |
| Ulster | 619,765 |
| Warren | 25,913 |
| Washington | 50,448 |
| Wayne | 1,121,578 |
| Westchester | 22,504 |
| Wyoming | 130,847 |
| Yates | 103,871 |



2006 Figure 4 Text

Pesticide Sales by Volume (in Gallons) for New York State by County During 2006

| County | Amount* |
|-------------|---------|
| Albany | 5,467 |
| Allegany | 2,426 |
| Bronx | 0 |
| Broome | 1,055 |
| Cattaraugus | 6,106 |
| Cayuga | 23,190 |
| Chautauqua | 30,318 |
| Chemung | 2,175 |
| Chenango | 3,264 |
| Clinton | 9,022 |
| Columbia | 14,969 |
| Cortland | 1,885 |
| Delaware | 708 |
| Dutchess | 18,244 |
| Erie | 14,923 |
| Essex | 387 |
| Franklin | 2,541 |
| Fulton | 1,761 |
| Genesee | 61,850 |
| Greene | 7,533 |
| Hamilton | |
| Herkimer | 3,562 |
| Jefferson | 7,277 |
| Kings | 12,053 |
| Lewis | 7,080 |
| Livingston | 32,591 |
| Madison | 10,021 |
| Monroe | 24,944 |
| Montgomery | 8,579 |
| Nassau | 5,138 |
| New York | 285 |
| Niagara | 23,572 |
| Oneida | 17,393 |
| Onondaga | 10,758 |
| Ontario | 21,566 |

| County | Amount* |
|--------------|---------|
| Orange | 33,889 |
| Orleans | 55,098 |
| Oswego | 22,162 |
| Otsego | 2,379 |
| Putnam | 8,470 |
| Queens | 9,883 |
| Rensselaer | 9,773 |
| Richmond | 2,716 |
| Rockland | 1,481 |
| St. Lawrence | 6,258 |
| Saratoga | 7,392 |
| Schenectady | 1,830 |
| Schoharie | 2,509 |
| Schuyler | 2,274 |
| Seneca | 11,025 |
| Steuben | 27,814 |
| Suffolk | 12,305 |
| Sullivan | 971 |
| Tioga | 6,853 |
| Tompkins | 5,363 |
| Ulster | 38,400 |
| Warren | 34 |
| Washington | 4,436 |
| Wayne | 66,857 |
| Westchester | 1,385 |
| Wyoming | 26,339 |
| Yates | 14,077 |

Final 2006 PRL Annual Report - Figure 5

Relative Use (Pounds) of Reported Top Ten Pesticide Products Applied by Certified Commercial Applicators during 2006*

| EPA Registration Number <u>‡</u> | Weight Quantity (pounds) ^{***} | Percentage of All Products | Active Ingredients |
|--|---|----------------------------------|--|
| <u>10404-82</u> | 1,967,200.88 | 8.837% | PENDIMETHALIN |
| <u>432-1349-10404</u> | 1,878,552.30 | 8.438% | IMIDACLOPRID |
| <u>9198-123</u> | 1,645,835.64 | 7.393% | TOLUENE-2,4-DIAMINE, ALPHA,ALPHA,ALPHA- TRIFLUORO-3,5-DINITRO-N4,N4-DIPROPYL- |
| <u>228-281-10404</u> | 1,265,109.39 | 5.683% | DIMETHYLAMINE 2-(2-METHYL-4- CHLOROPHENOXY)PROPIONATE DIMETHYLAMINE 2-(2,4- DICHLOROPHENOXY)PROPIONATE ACETIC ACID, (2,4- DICHLOROPHENOXY)-, COMPD. WITH N-METHYLMETHANAMINE (1:1) |
| <u>10404-85</u> | 1,207,055.18 | 5.422% | DITHIOPYR |
| <u>279-3216-10404</u> | 746,697.46 | 3.354% | BIFENTHRIN |
| <u>9198-173</u> | 700,517.76 | 3.147% | PENDIMETHALIN |
| <u>279-3168</u> | 555,734.49 | 2.496% | BIFENTHRIN |
| <u>3125-474-10404</u> | 508,955.23 | 2.286% | IMIDACLOPRID |
| <u>8378-39</u> | 383,098.25 | 1.721% | TOLUENE-2,4-DIAMINE, ALPHA,ALPHA,ALPHA- TRIFLUORO-3,5-DINITRO-N4,N4-DIPROPYL- |
| Top 10 Products - Total Quantity (pounds) Used: | 13,388,975.36 | | |
| All Products - Total Quantity (pounds) Used: | 22,261,956.13 | | |
| Top 10 Products as a Percentage of Total Quantity (pounds): | | 60.14% | |

* Excluding Illegible, Invalid, Irregular, and Unreported Categories.

** Product quantities may be initially reported in weight-based or volume-based units of measurement. The total quantity for the product is the sum of the weight and volume totals. If no quantity is specified for a product, this indicates that the product was applied, but the reported unit of measure was invalid, or that the reported quantity was negligible (less than 0.01).

Final 2006 PRL Annual Report – Figure 6

Relative Use (Gallons) of Reported Top Ten Pesticide Products Applied by Certified Commercial Applicators during 2006*

| EPA Registration Number <u>‡</u> | Volume Quantity (gallons) | Percentage of All Products | Active Ingredients |
|---|---|----------------------------------|--|
| <u>9359-2</u> | 416,039.72 | 13.351% | SODIUM HYPOCHLORITE |
| <u>59074-20001</u> | 191,787.27 | 6.154% | SODIUM HYPOCHLORITE |
| <u>5905-368</u> | 152,610.52 | 4.897% | ALIPHATIC PETROLEUM HYDROCARBONS |
| <u>75506-4</u> | 131,313.00 | 4.214% | 1H-1,2,4-TRIAZOLE-1-ETHANOL, .ALPHA(2-(4- CHLOROPHENYL)ETHYL)ALPHA (1,1-DIMETHYLETHYL)-, (+-), BORIC ACID COPPER CARBONATE |
| <u>69526-5</u> | 118,726.57 | 3.810% | ALIPHATIC PETROLEUM HYDROCARBONS |
| <u>100-1152</u> | 87,256.05 | 2.800% | MESOTRIONE ATRAZINE S-METOLACHLOR |
| <u>9613-20001</u> | 72,240.36 | 2.318% | SODIUM HYPOCHLORITE |
| <u>52483-1</u> | 50,886.00 | 1.633% | SODIUM HYPOCHLORITE |
| <u>19713-123</u> | 45,397.07 | 1.457% | ALIPHATIC PETROLEUM HYDROCARBONS |
| <u>73049-46</u> | 41,280.00 | 1.325% | BACTUR |
| Top 10 Products - Total Quantity (gallons) Used: | 1,744,674.66 | | |
| All Products - Total Quantity (gallons) Used: | 3,116,212.22 | | |
| Top 10 Products as a Percentage of Total Quantity (gallons): | | 55.99% | |

* Excluding Illegible, Invalid, Irregular, and Unreported Categories.

** Product quantities may be initially reported in weight-based or volume-based units of measurement. The total quantity for the product is the sum of the weight and volume totals. If no quantity is specified for a product, this indicates that the product was applied, but the reported unit of measure was invalid, or that the reported quantity was negligible (less than 0.01).

Final 2006 PRL Annual Report – Figure 7

Relative Amount (Pounds) of Reported Top Ten Restricted and General Use Agricultural Pesticide Products Sold by Commercial Permit Holders to Certified Private Applicators during 2006*

| EPA Registration Number | Weight Quantity (pounds) | Percentage of All Products | Active Ingredients |
|--|---|-------------------------------|-----------------------|
| <u>100-1075</u> | 338,219.90 | 6.238% | TEFLUTHRIN |
| <u>4581-370</u> | 334,483.00 | 6.169% | MANCOZEB |
| <u>62719-486-65783</u> | 222,115.00 | 4.097% | DITHIOPYR |
| <u>62719-34</u> | 205,911.00 | 3.798% | CHLORPYRIFOS |
| <u>432-1349-65783</u> | 200,900.00 | 3.705% | IMIDACLOPRID |
| <u>51036-166</u> | 166,850.00 | 3.077% | CAPTAN |
| <u>66222-58-51036</u> | 162,598.75 | 2.999% | CAPTAN |
| <u>62719-402</u> | 155,572.00 | 2.869% | MANCOZEB |
| <u>6325-13</u> | 153,390.00 | 2.829% | SULFUR |
| <u>7969-105-34704</u> | 145,407.64 | 2.682% | METIRAM |
| Top 10 Products - Total Quantity (pounds) Sold: | 2,085,447.29 | | |
| All Products - Total Quantity (pounds) Sold: | 5,421,896.81 | | |
| Top 10 Products as a Percentage of Total Quantity (pounds): | | 38.46% | |

*Excluding Illegible, Invalid, Irregular, and Unreported Categories.

** Product quantities may be initially reported in weight-based or volume-based units of measurement. The total quantity for the product is the sum of the weight and volume totals. If no quantity is specified for a product, this indicates that the product was applied, but the reported unit of measure was invalid, or that the reported quantity was negligible (less than 0.01).

Final 2006 PRL Annual Report – Figure 8

Relative Amount (Gallons) of Reported Top Ten Restricted and General Use Agricultural Pesticide Products Sold by Commercial Permit Holders to Certified Private Applicators during 2006*

| EPA Registration Number <u>‡</u> | Volume Quantity (gallons) | Percentage of All Products | Active Ingredients |
|--|---|-------------------------------|---|
| <u>100-1152</u> | 77,263.05 | 9.941% | MESOTRIONE ATRAZINE S-METOLACHLOR |
| <u>71368-20</u> | 28,926.89 | 3.722% | GLYPHOSATE- ISOPROPYLAMMONIUM |
| <u>524-539</u> | 27,693.61 | 3.563% | GLYCINE, N- (PHOSPHONOMETHYL)- POTASSIUM SALT |
| <u>1812-416</u> | 21,195.70 | 2.727% | MANCOZEB |
| <u>69526-1</u> | 20,344.00 | 2.618% | MINERAL OIL - INCLUDES PARAFFIN OIL FROM 063503 |
| <u>19713-123</u> | 19,177.10 | 2.468% | ALIPHATIC PETROLEUM HYDROCARBONS |
| <u>50534-188-100</u> | 18,740.50 | 2.411% | CHLOROTHALONIL |
| <u>241-337</u> | 16,757.10 | 2.156% | PENDIMETHALIN |
| <u>34704-868</u> | 14,243.06 | 1.833% | PENDIMETHALIN |
| <u>524-344</u> | 13,950.98 | 1.795% | ALACHLOR |
| Top 10 Products - Total Quantity (gallons) Sold: | 412,818.09 | | |
| All Products - Total Quantity (gallons) Sold: | 777,184.15 | | |
| Top 10 Products as a Percentage of Total Quantity (gallons): | | 53.12% | |

*Excluding Illegible, Invalid, Irregular, and Unreported Categories.

** Product quantities may be initially reported in weight-based or volume-based units of measurement. The total quantity for the product is the sum of the weight and volume totals. If no quantity is specified for a product, this indicates that the product was applied, but the reported unit of measure was invalid, or that the reported quantity was negligible (less than 0.01).