2008 RETAIL PESTICIDE SALES REPORT

Non-domestic and Domestic

Pesticide Regulatory Program

Department of Environment, Energy and Forestry
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As a requirement under the *Pesticides Control Act* and Regulations, the P.E.I. Department of Environment, Energy and Forestry collects and compiles information regarding the volume of both non-domestic, and controlled-purchase domestic, pesticide sales conducted by licensed pesticide vendors. The 2008 report is based on sales that occurred during the 2008 calender year. Sales figures have been sorted on the basis of three principal pesticide types (herbicides, insecticides, and fungicides) (Tables 1 and 5), and on specific active ingredients.

Non-domestic Pesticides

Table 1. SALES REPORTED BY PESTICIDE TYPE

PESTICIDE TYPE	AMOUNT SOLD IN 2008
Herbicides	96,003 Kg of Active Ingredient*
Insecticides	27,779 Kg of Active Ingredient*
Fungicides	556,769 Kg of Active Ingredient*
TOTAL	680,552 Kg of Active Ingredient*

* Does not include mineral oil formulations

During the 2008 crop year, herbicide sales, as recorded in Table 2, increased substantially from 2007 levels. Herbicide actives account for almost 50% of the pesticide active ingredients sold in the province.

Continuing the previous downward movement of insecticide volumes, the sale of these products in 2008 decreased again (9.2%) from 2007. On a more significant note, the sale of insecticides in Prince Edward Island remains down by 74.7% from 1993 levels.

Reversing the 2002 to 2006 downward movement, fungicide sales increased slightly in 2008. The total of 556,769 kg of active ingredient sold in 2008 represents a 7.7% increase over the 517,158 kg of active ingredient sold in 2007. Compared with 1993 data, fungicide sales in 2008 are 42.7% higher (Table 3).

The total pesticide sales volume for 2008 increased slightly (8.0%) from 2007 levels. Currently, total 2008 figures remain some 13.0% higher than 1993 levels. Three fungicide active ingredients accounted for 77.8 % (529,493 kg) of the year's total pesticide sales.

Table 2. PERCENT CHANGE IN PESTICIDE SALES FROM 2007 TO 2008

	2008 (kg of A.I.)	2007 (kg of A.I.)	% Change
Herbicides	96,003	82, 515	16.3
Insecticides	27,779	30, 609	- 9.2
Fungicides	556,769	517, 158	7.7
TOTAL	680,552	630, 282	8.0

Table 3. PERCENT CHANGE IN PESTICIDE SALES FROM 1993 TO 2008

	2008 (kg of A.I.)	1993 (kg of A.I.)	% Change
Herbicides	96,003	104, 000	- 7.7
Insecticides	27,779	108, 000	-74.3
Fungicides	556,769	390, 000	42.7
TOTAL	680,552	602, 000	13.0

Table 4. CROP ACRES IN PEI

	2008	2007	2002
Potato	92,500	96,000	107,000
Wheat	42,000	27,000	28,000
Oats	12,000	12,000	11,000
Barley	77,000	85,000	90,000
Mixed Grain	8,000	10,000	17,000
Soybeans	18,000	11,000	7,000
Tame Hay	145,000	156,000	143,000
Apples†	100	100	90
Blueberries†	10,000	9500	8,000
Cranberries†	N/A	75	91
Strawberries†	225	250	280
Cabbage†	200	215	185
Carrots†	795	925	665
Rutabagas and Turnips†	500	490	450
TOTAL ACRES	406,320	408,555	412,761

† data supplied by the PEI Department of Agriculture
X confidential data
r revised from last publication

SALES REPORTED BY ACTIVE INGREDIENT

Note: Active ingredients within each class are reported in alphabetical order, not by sales volume.

Group A: (sales of each active ingredient greater than 50,000 kg)

- Chlorothalonil (TET) (fungicide)
- Mancozeb (MCZ) (fungicide)
- Metiram (MTR) (fungicide)

Group B: (sales of each active ingredient between 10,001 and 50,000 kg)

- Diquat (DIQ) (herbicide)
- MCPA present as amine salts (MAB) (herbicide)
- Phorate (PHR) (insecticide)
- Hexazinone (VPR) (herbicide)

Group C: (sales of each active ingredient between 1,000 and 10,000 kg)

- S-Metolachlor (AME) (herbicide)
- Atrazine (ATR) (herbicide)
- Metribuzin (BAX) (herbicide)
- Carbofuran (CAF) (insecticide)
- Captan (CAP) (fungicide)
- Clethodim (CLE) (herbicide)
- Copper, present as cupric hydroxide (CUZ) (fungicide)
- Cymoxanil (CYO) (fungicide)
- Dimethoate (DIM) (insecticide)
- Chlorpyrifos (DUB) (insecticide)
- 2,4-D present as amine salts (DXB) (herbicide)
- Fludioxonil (FLD) (fungicide)
- Fluazifop-p-butyl (FZA) (herbicide)
- Glyphosate present as the isopropylamine salt (GPI) (herbicide)
- Glyphosate (GPT) (herbicide)
- Imidacloprid (IMI) (insecticide)
- Propyzamide (KRB) (herbicide)
- Linuron (LUN) (herbicide)
- MCPA present as potassium salt or as sodium salt (MAS) (herbicide)
- Metalaxyl-M (MFN) (fungicide)
- Methamidophos (MOM) (insecticide)
- Propiconazole (PON) (fungicide)
- Terbacil (TER) (herbicide)
- Thiophanate-methyl (TPM) (fungicide)
- Trifluralin (TRF) (herbicide)

Domestic Pesticides

The data presented in Table 5 represents only the sale of (higher risk) controlled-purchase domestic pesticides. Sales data for (lower-risk) self-select pesticides is not collected. Sales data for combination products (fertilizer–herbicide blends) registered under the *Fertilizers Act* (Canada) is reported in Table 6.

Table 5. SALES REPORTED BY PESTICIDE TYPE

PESTICIDE TYPE	AMOUNT SOLD IN 2008
Herbicides	887 Kg of Active Ingredient
Insecticides	2,775 Kg of Active Ingredient
Fungicides	82 Kg of Active Ingredient
Molluskicides	141 Kg of Active Ingredient
TOTAL	3,885 Kg of Active Ingredient

Table 6. SALES OF COMBINATION (FERTILIZER–HERBICIDE) PRODUCTS

Dry formulation products	25,000 Kg
Liquid formulation products	1,500 L

NOTE: Due to the wide variance in properties among pesticides, the amount of active ingredient is only one factor of many that needs to be considered when assessing risk. Other factors, such as the product toxicity, exposure patterns, exposure amounts, chemical family, and individual susceptibility, must also be considered. It is important to remember that all pesticides must undergo a thorough scientific review prior to being registered by Health Canada for use in Canada.