



*Environment, Water and Climate Change*

# PEI RETAIL PESTICIDE SALES REPORT

2015-2016



Prince Edward Island 2015-2016 Retail Pesticide Sales Report

PEI Department of Environment,  
Water and Climate Change

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For further information:  
Pesticide Management Program/Agriculture Outreach  
(902) 368-5599

# **Prince Edward Island 2015-2016 Retail Pesticide Sales Report**

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## Introduction

Each year, retail stores must report sales of both domestic (controlled-purchase only) and non-domestic pesticides to the Department of Environment, Water, and Climate Change. The following information is based on sales that occurred during the 2015 and 2016 calendar year. Sales from 2014 are included for comparison.

## Domestic Pesticides

Domestic pesticides are intended for use by the public in or around their home. They are packaged in small containers. They are intended for a single application or a single-use season. Domestic pesticides pose little risk to users or the environment when the directions on the label are followed.

There are two kinds of domestic pesticides sold in Prince Edward Island. Self-select pesticides can be purchased off the shelf at retail stores. Controlled-purchase pesticides are kept behind the counter. They are often sold in larger packages or have active ingredients that require more care and consideration for use. Only the sale of controlled-purchase domestic pesticides are required to be reported by retailers.

The following table lists the total amount of domestic pesticides sold in the years 2014-2016, categorized by the type of pesticide.

<b>Retail Sales of Controlled Purchase Domestic Pesticides</b>			
<b>Pesticide Type</b>	<b>Amount Sold (kilogram of active ingredient)</b>		
	<b>2014</b>	<b>2015</b>	<b>2016</b>
Herbicide	32	48	11
Insecticide	337	179	140
Fungicide	17	7	6
Other <sup>1</sup>	596	264	321
<b>Total</b>	<b>982</b>	<b>498</b>	<b>478</b>

<sup>1</sup> this includes combination products (i.e. insecticide / fungicide), rodenticides, animal repellents, disinfectants, and preservatives

## Non-Domestic Pesticides

Non-domestic includes all types of pesticides, except domestic pesticides. This includes commercial, restricted, and manufacturing pesticides. Non-domestic pesticides are used in agriculture, forestry, industry and other commercial operations (e.g. lawn/landscape applications by licenced commercial companies).

Non-domestic pesticides can pose a greater risk to the user and the environment due to the type of active ingredient, its concentration, or other factors. As a result, non-domestic pesticides can only be applied by a certified applicator.

The following table lists the total amount of non-domestic pesticides sold in the years 2014-2016, categorized by the type of pesticide.

<b>Retail Sales of Non-Domestic Pesticides</b>			
<b>Pesticide Type</b>	<b>Amount Sold (kilogram of active ingredient)</b>		
	<b>2014</b>	<b>2015</b>	<b>2016</b>
Herbicide	161,536	153,426	154,700
Insecticide	190,376	150,803	190,045
Fungicide	647,627	631,419	640,156
Other <sup>2</sup>	19,758	20,275	16,373
<b>Total</b>	<b>1,019,297</b>	<b>955,923</b>	<b>1,001,274</b>

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<sup>2</sup> this includes combination products (i.e. insecticide / fungicide), rodenticides, animal repellents, disinfectant, and preservatives

## Non-Domestic Pesticide Active Ingredients

The following table lists the total amount of non-domestic pesticides sold in the years 2014-2016, categorized by the active ingredients.

Retail Sales of Non-Domestic Pesticides by Active Ingredient <sup>3</sup>			
Active Ingredient	Amount Sold (kilogram)		
	2014	2015	2016
2,4-D (present as amine salts)	1,824	3,993	5,400
2,4-DB	939	1,356	2,475
aluminum silicate	416	1,224	344
atrazine	2,870	2,674	3,586
azoxystrobin	1,952	2,944	2,026
bentazone-sodium	470	1,262	3,022
boscalid	1,771	2,920	2,889
captan	1,040	1,128	1,268
carbathiin	2,319	1,065	5
chlorantraniliprole	1,382	965	1,050
chlorothalonil	140,491	125,703	135,462
chlorpropham	1,028	1,193	1,706
chlorpyrifos	741	261	1,017
clethodim	834	75	720
clothianidin	1,322	1,565	3,092
copper hydroxide	1,423	2,188	2,712
cymoxanil	536	1,639	4
diazinon	247	351	211
dimethoate	2,376	1,114	926
diquat	22,409	15,547	14,900
fenamidone	816	666	534
flonicamid	1,138	9,681	4,783
fluazifop-p-butyl	711	848	736
fluazinam	1,596	1,058	1,063
fludioxonil	693	410	504
glufosinate-ammonium	588	2,721	4,746
glyphosate (present as potassium salt)	51,372	47,175	49,787
hexazinone	7,627	13,092	
linuron	27,528	27,623	29,725
maleic hydrazide	3,700	5,042	
mancozeb	303,957	333,046	337,494
mandipropamid	1,380	715	789

<sup>3</sup> Active ingredients with sales less than 1,000 kg are not included

Active Ingredient	Amount Sold (kilogram)		
	2014	2015	2016
MCPA (present as potassium salt or as sodium salt)	6,743	10,815	10,173
metalaxyl-M and S-isomer	1,982	1,048	821
metiram	39,535	44,621	51,057
metribuzin	9,528	6,622	6,507
mineral oil	140,961	96,442	141,139
mono- and di-basic sodium, potassium, and ammonium phosphites	7,749	5,450	5,503
mono- and di-potassium phosphite	124,733	94,232	80,191
phorate	27,557	30,849	23,744
phosmet	6,796	3,896	5,233
propiconazole	1,591	204	2,728
propyzamide	1,673	1,296	690
prothioconazole	958	2,247	2,267
pyraclostrobin	1,981	2,908	3,761
rimsulfuron	276	184	218
s-metolachlor	2,249	302	1,695
surfactant blend	12,617	10,894	12,547
terbacil	2,025	1,485	2,890
thiabendazole	604	648	430
thiophanate-methyl	5,988	4,310	3,825
thiram	2,060	944	160
tribenuron-methyl	42	111	136
trifuralin	944	840	826
all other active ingredients	14,283	14,205	20,954
<b>TOTAL</b>	<b>1,019,297</b>	<b>955,923</b>	<b>1,001,274</b>

**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.