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## SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS

12 Months Ended September 30, 1961

Sales of pest control products in the period ending September 30, 1961 as reported by Canadian registrants were valued at \$33,702,037 an increase of 24.7% over the \$27,032,451 reported for the same period the previous year. A breakdown of these totals by group with the previous year shown in brackets is; Agricultural dusts and sprays \$12,328,834 (\$9,871,727); Livestock treatments, \$2,420,324 (\$1,888,894); Herbicides \$10,294,639 (\$8,396,160); Household and Industrial insecticides \$7,426,130 (\$5,785,146); Rodenticides \$561,110 (\$510,599) and unspecified \$671,000 (\$580,000).

Several changes in concept affecting the method of reporting to this survey were introduced for the 1957 period. Under the circumstances set out in detail below data presented in this report for the period under review are not exactly comparable with those presented previous to 1957. The first one involved a change in the reporting period; the second concerned P.C.P. registration of certain products which were discontinued; while the third concerned the cut-off point for small firms. These three changes are reviewed in the footnotes which follow.

1. In order to make the data presented in this report available at an earlier date than formerly possible when the reporting period was on a calendar-year basis the reporting period was changed to cover the twelve-month period ending September 30, in 1957.
2. Details presented in this survey refer only to the sale of products registered with the Department of Agriculture as required under the terms of the Pest Control Products Act. From time to time the requirements in force affecting certain products are changed so that the registration of a product may be discontinued. For example, the registration of certain classes of disinfectants was discontinued in 1950. A similar situation obtained in 1956 when the registration of medicated feeds was discontinued. In each case, of course, the figure representing total sales was affected.
3. All registrants, totalling 500 firms in number were circularized in connection with this survey for the period under review, however, only those reports filed by firms which showed sales in excess of \$10,000 were actually used in developing the details presented in this report. Previous to 1957 the cut-off was \$500. The former group (firms showing sales in excess of \$10,000) included 150 firms in all, and it is estimated that this group accounted for at least 95% of the total sales of pest control products in Canada. The total reported by the remaining group of firms (under \$10,000) is shown under the heading of "Products not specified in detail".

Prepared in the Industry and Merchandising Division

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ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa, 1962



TABLE 1. Sales of Pest Control Products by Canadian Registrants

Item	12 months ended September 30, 1961	
	Quantity	Value
(A) <u>Agriculture</u>		
\$		
(A) - Arsenicals:		
1. Arsenate of lead .....	lb.	761,915 215,862
2. Arsenic dusts (without copper) ..	"	3,426,955 171,822
3. Calcium arsenate .....	"	165,156 13,533
4. Paris green .....	"	24,189 12,197
(B) - Botanicals:		
1. Rotenone dusts (not more than 1% rotenone) .....	"	513,012 139,477
2. Other botanicals (ryania dusts, etc.) .....	"	527 608
(C) - Synthetic organics:		
1. Aldrin - Dusts (including granular dusts) .....	lb. aldrin	216,832 272,018
Emulsions .....	"	461,384 459,436
Wettable powders .....	"	36,540 54,222
2. B.H.C. and lindane, dusts emulsions and wettable powders .	lb. gamma	22,015 30,547
3. Chlordane - Dusts .....	lb. chlordane	19,406 33,033
Emulsions and wettable powders ...	"	92,452 86,333
4. Dieldrin - Dusts (incl. granular dusts) .....	lb. dieldrin	7,844 20,449
Emulsions .....	"	941,301 2,179,109
Wettable powders .....	"	13,645 29,919
5. Dinitro compounds (phenols and cresols) .....	lb.	87,032 24,110
6. DDT - Dusts (including granular dusts) .....	lb. DDT	91,981 74,699
Emulsions .....	"	363,826 286,134
Wettable powders .....	"	886,091 370,824
7. Endrin - Dusts .....	lb. endrin	4,641 21,534
Emulsions and wettable powders .....	"	104,634 401,198
8. Malathion - Dusts .....	lb. malathion	13,282 19,012
Emulsions .....	"	114,646 229,238
Wettable powders ....	"	93,793 207,846
9. Methoxychlor (all formulations) .	lb. methoxychlor	52,882 50,377
10. Parathion - Parathion bombs .....		... (1)
Dusts .....		... (1)
Emulsions .....	lb. parathion	16,095 37,277
Wettable powders ....	"	42,512 44,136
11. Soil fumigants .....	lb.	253,637 57,771
12. Specific Acaracides (including Aramite, chlorfenson, fenson, Kelthane, ovex, Sulphenon, Tedion, etc.) .....		... 274,771
13. TEPP and HETP (all forms) .....		... 11,482
14. Toxaphene emulsions .....	lb. toxaphene	76,536 46,811

( Included with 15 "Other synthetic organics - Other, n.e.e." )





TABLE 1. Sales of Pest Control Products by Canadian Registrants - Continued

Item	12 months ended September 30, 1961	
	Quantity	Value \$
(A) <u>Agriculture - Continued</u>		
15. Other synthetic organics:		
Chlorinated hydrocarbons, n.e.s. ....	...	237,489
Phosphates, n.e.s. ....	...	840,599
Other, n.e.s. ....	...	314,486
(D) - Copper compounds (with and without insecticide):		
1. Copper sulphate .....	lb. 869,995	93,556
2. Fixed copper spray materials .....	" 321,958	137,373
3. Fixed copper spray materials with insecticide .....	" 76,218	31,916
4. Fixed copper dusts with insecticide .....	" 1,167,636	174,492
5. Other copper compounds (including copper lime dusts, dry Bordeaux mixture, etc.) .....	" 182,451	38,077
(E) - Other than copper fungicides:		
1. Captan (all forms) .....	lb. captan 466,208	454,631
2. Dithiocarbamates - Ferbam .....	lb. ferbam 140,480	83,448
Nabam .....	lb. nabam 613,686	251,177
Thiram .....	...	(2)
Zineb .....	lb. zineb 44,605	33,689
Other (maneb, ziram, etc.) ...	...	727,744
3. Dithiocarbamates (with insecticide) ..	lb. 269,018	78,434
4. Dusting sulphurs .....	" 45,280	2,694
5. Liquid Lime-sulphur .....	Imp. gal. 266,052	81,143
6. Wettable sulphurs - Without insecticide ...	lb. 591,591	53,805
With insecticide ...	" 85,226	48,243
7. Other sulphurs (including dry lime-sulphur) .....	" 175,691	12,972
8. Mercurial fungicides (except seed treatments) .....	" 20,911	42,755
9. Other fungicides, not seed treatments (including dichlones, glyodin, etc.) .....	...	758,307
(F) - Seed treatments:		
1. Fungicidal:		
- Chlorobenzenes .....	lb. 35,945	23,344
Organic mercurials - Liquid .....	Imp. gal. 56,897	592,315
Powders .....	lb. 73,451	79,783

(2) Included with "Other (maneb, ziram, etc.)".



TABLE 1. Sales of Pest Control Products by Canadian Registrants - Continued

Item	12 months ended September 30, 1961	
	Quantity	Value \$
(A) <u>Agriculture - Continued</u>		
(F) - Seed Treatments - Continued:		
2. Fungicide - Insecticide combinations:		
- Organic mercurials plus insecticide - Liquid .....	Imp. gal. <del>45,385</del> 8,339	<del>143,618</del> 534,507
Powders .....	lb. <del>132,814</del> 157,287	<del>290,531</del> 320,400
Other fungicide plus insecticide - Liquid .....	Imp. gal. <del>6,571</del> 40,911	<del>106,599</del> 22,767
Powder .....	lb. <del>37,667</del> 113,314	<del>153,198</del> 143,320
3. Other seed treatments .....	" 173,470	191,144
(G) - Miscellaneous:		
1. Mineral oils for dormant or foliage spraying .....	Imp. gal. 324,578	127,993
2. Nicoting liquids .....	" 1,884	21,830
3. Other agricultural dusts and sprays including hydrated lime .....	...	225,664
Total agricultural dusts and sprays ....	...	12,328,834
(H) - Livestock treatments (including poultry):		
Wormers:		
1. Coccidiosis treatments (except medicated feeds) .....	lb. 254,159	405,560
2. Phenothiazine .....	lb. phenothiazine 30,931	41,651
3. Piperazine .....	lb. piperazine 74,870	90,742
4. Other wormers .....	...	64,419
Other livestock treatments:		
1. Animal insect powders (except warble powders) .....	lb. 544,935	165,317
2. Barn sprays for residual effects ....	Imp. gal 29,752	109,878
3. Blackhead treatments .....	...	473,211
4. Livestock sprays .....	Imp. gal 196,941	404,158
5. Self-propelled livestock sprays ....	No. 22,849	22,951
6. Warble powders and washes .....	lb. rotenone 47,892	77,768
7. Other livestock treatments .....	...	564,669
Total livestock treatments .....	...	2,420,324
(I) - Herbicides:		
1. Arsenicals .....	Imp. gal. 34,915	109,508
2. Borates, chlorates and borate-chlorate mixtures .....	lb. 3,178,036	251,997
3. Borate-chlorate-monuron mixtures ...	" 720,930	178,516
4. Butyric and propionic formulations (including 2,4-DB, MCPB, mecoprop, silvex, erbon, etc.) .....	...	3,603 35,662
5. Carbamates (including CDAA, CDEC, ClPC, IPC, etc.) .....	lb. 320,227	904,023
6. Cyanamides & potassium cyanates ....	" 32,913	26,323







TABLE 1. Sales of Pest Control Products by Canadian Registrants - Continued

Item	12 months ended September 30, 1961	
	Quantity	Value
(A) <u>Agriculture - concluded</u>		
(I) - Herbicides - Continued:		
7. Dalapon and mixtures including dalapon .....	lb.	112,160
8. Dinitros .....		97,123
9. MCPA - Amine .....	lb. acid	83,077
Ester .....	"	525,757
Other MCPA formulations ....	"	249,732
10. TCA .....	"	65,496
11. Triazines and substituted ureas, n.e.s. ....		90,429
12. 2, 4-D formulations:		247,332
Amine liquid .....	lb. acid	392,105
Ester dust .....	"	715,783
Ester liquid .....	"	885,500
Other 2, 4-D formulations ....	"	63,197
13. 2, 4, 5-T formulations - Amine ....	"	6,126,641
- Ester ....	"	4,578,773
14. 2, 4-D, 2, 4, 5-T mixtures .....		122,449
2, 4-D portion of item 14 .....	lb. acid	102,276
2, 4, 5-T portion of item 14 ...	"	1,107
15. Other herbicides (excluding soil fumigants) .....		119,161
		200,348
		470,348
		198,456
		155,040
		491,362
Total herbicides .....		10,294,639

(B) Household and Industrial Insecticides

(A) - Fumigants (excluding soil fumigants):

1. Naphthalene .....		...	(3)
2. Paradichlorobenzene .....	lb.	4,317,353	1,262,634
3. Other (except soil fumigants) but including carbon tetrachloride, ethylene dichloride etc.) .....		...	1,440,682

(B) - Powders and Dusts:

1. Ant traps .....	lb.	206,462	27,417
2. Chlordane insect powders .....	"	3,000	1,000
3. DDT insect powders (including those with pyrethrum) .....	"	29,251	15,260
4. Fly baits .....	"	261,884	146,282
5. Insect powders (without DDT) .....	"	293,137	54,593
6. Lindane (for vaporizers and fumigators) .....	lb. lindane	30,779	89,764
7. Lindane dispensers:			
Continuous vaporization type ....	No.	3,290	...
Non-continuous fumigation type ..	"	800	...
8. Other powders and dusts (including insect smokes) .....		...	19,337

(3) Included with "item 3, other fumigants".



TABLE 1. Sales of Pest Control Products by Canadian Registrants - Continued

Item	12 months ended September 30, 1961	
	Quantity	Value \$
(B) <u>Household and Industrial Insecticides - Concluded</u>		
(C) - Sprays and aerosol bombs:		
1. Mill and warehouse sprays (pyrethrum type etc.) .....	Imp. gal. 45,067	241,500
2. Residual sprays:		
With DDT .....	" 80,755	121,279
Chlorinated hydrocarbons, other than DDT .....	" 35,044	158,214
3. Self propelled insecticides:		
Residual type - For fabric protection .....	No. 458,267	366,518
Other .....	" 161,653	115,679
Space spray type - For use on foliage .....	" 1,658,889	1,443,668
Not for use on foliage ...	" 1,293,013	921,970
4. Space or air sprays - Chlorinated hydrocarbon type (e.g. DDT, methoxychlor etc.) .....	Imp. gal. 21,095	56,831
Other .....	" 71,426	173,870
(D) - Mosquito and fly repellants:		
1. Dimethyl phthalate, indalone, ethyl hexandiol, toluamide, etc.)		
Liquids .....	... ..	157,730
Pressurized .....	No. 551,442	415,876
Other (including creams and sticks) .....	... ..	63,924
(E) - Other Household and industrial insecticides .....	... ..	132,102
Total household and industrial insecticides .....	... ..	7,426,130

(C) Rodenticides

(A) - Mouse and rat poisons:		
(1) Warfarin and pival type - 0.5% ....	lb. 150,734	69,733
- 0.025% ..	" 669,520	337,220
(2) Other mouse and rat poisons .....	" 151,084	106,652
(B) - Other rodenticides (mole killers, gopher poisons, etc.) .....	... ..	47,505
Total rodenticides .....	... ..	561,110





TABLE 1. Sales of Pest Control Products by Canadian Registrants - Concluded

Item	12 months ended September 30, 1961	
	Quantity	Value
		\$
Total pest control products specified in detail .....	...	33,031,037
Total pest control products not specified in detail .....	...	671,000
Grand total all pest control products .....	...	33,702,037

(a) 10,000 gallons of a 64 oz. ester would be recorded as 40,000 pounds.

(b) 100,000 pounds of 2, 4-D dust (5%) would be recorded as 5,000 pounds.

(c) 5,000 gallons of an 80 oz. amine would be recorded as 25,000 pounds.

... Figures not appropriate or not applicable.

Note: Firms reporting MCPA., 2, 4, 5-T and 2, 4-D sales were asked to record their sales on a basis of acid equivalent, i.e.:

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