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## SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS 12 Months Ended September 30, 1962

Sales of pest control products in the period ending September 30, 1962 as reported by Canadian registrants were valued at \$35,802,533 an increase of 6.2% over the \$33,702,037 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 \$13,117,140 (\$12,328,834); Livestock treatments, \$3,382,014 (\$2,-420,324); Herbicides \$11,333,397 (\$10,294,639); Household and Industrial insecticides \$6,783,549 (\$7,426,130); Rodenticides \$481,739 (\$561,110) and unspecified \$704,694 (\$671,000).

Several changes in concept affecting the method or 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

January 1963  
6523-578

TABLE 1. Sales of Pest Control Products by Canadian Registrants

Item		12 months ended September 30, 1962	
		Quantity	Value \$
<u>(A) Agriculture</u>			
A - Arsenicals:			
1. Arsenate of lead .....	lb.	771,867	201,418
2. Arsenic dusts (without copper) ..	"	3,555,605	176,698
3. Calcium arsenate .....	"	161,622	15,898
4. Paris green .....	"	17,328	7,414
B - Botanicals:			
1. Rotenone dusts (not more than 1% rotenone) .....	"	489,171	138,471
2. Other botanicals (ryanina dusts, etc.) .....	"	56,951	10,457
C - Synthetic organics:			
1. Aldrin - Dusts (including granular dusts) .....	lb. aldrin	160,075	211,589
Emulsions .....	"	424,111	420,423
Wettable powders .....	"	31,406	78,472
2. B.H.C. and lindane, dusts emulsions and wettable powders	lb. gamma	30,402	61,500
3. Chlordane - Dusts .....	lb. chlordane	18,367	35,479
Emulsions and wettable powders ..	"	17,109	25,969
4. Dieldrin - Dusts (incl. granular dusts) .....	lb. dieldrin	46,030	193,213
Emulsions .....	"	519,562	1,279,915
Wettable powders .....	"	8,706	19,646
5. Dinitro compounds (phenols and cresols) .....	lb.	16,404	27,965
6. DDT - Dusts (including granular dusts) .....	lb. DDT	86,635	80,082
Emulsions .....	"	344,318	251,627
Wettable powders .....	"	797,890	347,956
7. Endrin - Dusts .....	lb. endrin	136,843	402,941
Emulsions and wettable powders .....	"	122,748	425,282
8. Malathion - Dusts .....	lb. malathion	9,747	23,602
Emulsions .....	"	365,609	686,768
Wettable powders ....	"	76,895	169,289
9. Methoxychlor (all formulations)	lb. methoxychlor	82,626	56,726
10. Parathion - Parathion bombs .....		...	(1)
Dusts .....		...	(1)
Emulsions .....	lb. parathion	10,471	25,184
Wettable powders ....	"	32,682	39,554
11. Soil fumigants .....	lb.	139,857	42,749
12. Specific Acaracides (including Aramite, chlorfenson, fenson, Kelthane, ovex, Sulphenon, Tedion, etc.) .....		...	362,228
13. TEPP and HETP (all forms) .....		...	9,561
14. Toxaphene emulsions .....	lb. toxaphene	72,606	45,357

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

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

Item	12 months ended September 30, 1962	
	Quantity	Value \$
<u>(A) Agriculture - Continued</u>		
15. Other synthetic organics:		
Chlorinated hydrocarbons, n.e.s. ..	...	318,657
Phosphates, n.e.s. ....	...	733,953
Other, n.e.s. ....	...	752,722
D - Copper compounds (with and without insecticide):		
1. Copper sulphate .....	lb. 2,456,396	239,646
2. Fixed copper spray materials .....	" 293,272	121,998
3. Fixed copper spray materials with insecticide .....	" 75,069	32,241
4. Fixed copper dusts with insecticide .....	" 1,042,683	149,757
5. Other copper compounds (including copper lime dusts, dry Bordeaux mixture, etc.) .....	" 124,566	24,327
E - Other than copper fungicides:		
1. Captan (all forms) .....	lb. captan 427,923	409,913
2. Dithiocarbamates - Ferbam .....	lb. ferbam 158,356	91,270
Nabam .....	lb. nabam 505,249	260,008
Thiram .....	... (2)	
Zineb .....	lb. zineb 48,047	33,719
Other (maneb, ziram, etc.) ....	... 665,000	
3. Dithiocarbamates (with insecticide) .....	lb. 348,792	64,401
4. Dusting sulphurs .....	" 56,661	3,407
5. Liquid Lime-sulphur .....	Imp. gal. 304,627	92,319
6. Wettable sulphurs - Without insecticide ....	lb. 461,917	42,113
With insecticide ....	" 74,559	42,420
7. Other sulphurs (including dry lime-sulphur) .....	" 110,298	8,515
8. Mercurial fungicides (except seed treatments) .....	" 17,610	40,629
9. Other fungicides, not seed treatments (including dichlones, glyodin, etc.) .....	... 847,179	
F - Seed treatments:		
1. Fungicidal:		
Chlorobenzenes .....	lb. 21,605	17,164
Organic mercurials - Liquid .....	Imp. gal. 42,687	323,552
Powders .....	lb. 84,805	76,969

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



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

Item	12 months ended September 30, 1962	
	Quantity	Value \$
<u>(A) Agriculture - Continued</u>		
F - Seed Treatments - Continued:		
2. Fungicide - Insecticide combinations:		
Organic mercurials plus		
insecticide - Liquid .....	Imp. gal. 12,368	777,328
Powders .....	lb. 185,452	290,854
Other fungicide plus		
insecticide - Liquid .....	Imp. gal. 28,849	155,206
Powder .....	lb. 28,127	50,761
3. Other seed treatments .....	" 207,549	233,704
G - Miscellaneous:		
1. Mineral oils for dormant or		
foliage spraying .....	Imp. gal. 309,458	123,147
2. Nicotig liquids .....	" 2,679	29,522
3. Other agricultural dusts and sprays		
including hydrated lime .....	...	191,306
Total agricultural dusts and sprays	...	13,117,140
H - Livestock treatments (including poultry):		
Wormers:		
1. Coccidiosis treatments (except		
medicated feeds) .....	lb. 617,367	1,193,757
2. Phenothiazine .....	lb. phenothiazine 22,698	30,579
3. Piperazine .....	lb. piperazine 91,460	146,854
4. Other wormers .....	...	56,189
Other livestock treatments:		
1. Animal insect powders (except		
warble powders) .....	lb. 623,741	190,142
2. Barn sprays for residual effects .....	Imp. gal 31,836	103,371
3. Blackhead treatments .....	...	498,495
4. Livestock sprays .....	Imp. gal 171,672	386,408
5. Self-propelled livestock sprays .....	No. 23,377	21,046
6. Warble powders and washes .....	lb. rotenone 47,348	83,712
7. Other livestock treatments .....	...	671,461
Total livestock treatments .....	...	3,382,014
I - Herbicides:		
1. Arsenicals .....	Imp. gal 68,134	118,958
2. Borates, chlorates and borate-		
chlorate mixtures .....	lb. 2,698,647	221,537
3. Borate-chlorate-monuron mixtures .....	" 782,940	198,375
4. Butyric and propionic formulations		
(including 2,4-DB, MCPB, mecoprop,		
silvex, erbon, etc.) .....	9,441	75,232
5. Carbamates (including CDAA, CDEC,		
CIPC, IPC, etc.) .....	lb. 209,871	797,778
6. Cyanamides & potassium cyanates .....	" 25,048	27,991

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

Item	12 months ended September 30, 1962	
	Quantity	Value \$
<u>(A) Agriculture - Concluded</u>		
I - Herbicides - Continued:		
7. Dalapon and mixtures including dalapon .....	lb.	172,033 134,247
8. Dinitros .....		... 199,830
9. MCPA - Amine .....	lb. acid	465,487 514,482
Ester .....	"	296,709 366,196
Other MCPA formulations .....	"	72,523 85,231
10. TCA .....	"	377,966 117,653
11. Triazines and subsituted ureas, n.e.s. ....		746,245 1,092,490
12. 2, 4-D formulations:		
Amine liquid .....	lb. acid	1,172,109 869,883
Ester dust .....	"	136,744 167,059
Ester liquid .....	"	7,523,932 4,918,168
Other 2, 4-D formulations .....	"	... (3)
13. 2, 4, 5-T formulations - Amine .....	"	... (3)
- Ester .....	"	135,976 206,200
14. 2, 4-D, 2, 4, 5-T mixtures .....		... 683,895
2, 4-D portion of item 14 .....	lb. acid	373,636 ...
2, 4, 5-T portion of item 14 .....	"	345,872 ...
15. Other herbicides (excluding soil fumigants) .....		... 538,192
Total herbicides .....		... 11,333,397

(B) Household and Industrial Insecticides

A - Fumigants (excluding soil fumigants):

1. Naphthalene .....		... (3)
2. Paradichlorobenzene .....	lb.	2,641,313 988,714
3. Other (except soil fumigants) but including carbon tetrachloride, ethylene dichloride etc.) .....		... 580,037

B - Powders and Dusts:

1. Ant traps .....	lb.	379,387 54,152
2. Chlordane insect powders .....	"	24,212 3,604
3. DDT insect powders (including those with pyrethrum) .....	"	33,037 15,104
4. Fly baits .....	"	260,331 139,233
5. Insect powders (without DDT) .....	"	285,191 40,651
6. Lindane (for vaporizers and fumigators) .....	lb. lindane	30,393 64,193
7. Lindane dispensers:		
Continuous vaporization type .....	No.	102 ...
Non-continuous fumigation type .....	"	- ...
8. Other powders and dusts (including insect smokes) .....		... 26,584

(3) Included with "item 15, other herbicides".

(4) Included with "Item 3, other fumigants".

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

Item	12 months ended September 30, 1962	
	Quantity	Value \$
<u>(B) Household and Industrial Insecticides - Concluded</u>		
C - Sprays and aerosol bombs:		
1. Mill and warehouse sprays (pyrethrum type etc.) .....	Imp. gal.	52,454 300,095
2. Residual sprays:		
With DDT .....	"	40,935 94,025
Chlorinated hydrocarbons, other than DDT .....	"	34,888 136,062
3. Self-propelled insecticides:		
Residual type - For fabric protection .....	No.	404,387 358,989
Other .....	"	162,128 115,927
Space spray type - For use on foliage .....	"	1,907,534 1,646,925
Not for use on foliage ..	"	1,192,624 883,090
4. Space or air sprays - Chlorinated hydrocarbon type (e.g. DDT, methoxychlor etc.) .....	Imp. gal.	8,126 108,896
Other .....	"	65,250 166,056
D - Mosquito and fly repellants:		
1. Dimethyl phthalate, indalone, ethyl hexandiol, toluamide, etc.)		
Liquids .....		... 282,484
Pressurized .....	No.	640,353 465,583
Other (including creams and sticks) .....		... 159,962
E - Other Household and industrial insecticides .....		
		... 153,183
Total household and industrial insecticides .....		
		... 6,783,549

### (C) Rodenticides

A - Mouse and rat poisons:				
(1) Warfarin and pival type - 0.5% ....	1b.	102,144	83,663	
- 0.025% ..	"	486,597	238,170	
(2) Other mouse and rat poisons .....	"	146,876	113,621	
B - Other rodenticides (mole killers,				
gopher poisons, etc.) .....		...	46,285	
Total rodenticides .....		...	481,739	

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

Item	12 months ended September 30, 1962	
	Quantity	Value \$
Total pest control products specified in detail .....	...	35,097,839
Total pest control products not specified in detail .....	...	704,694
Grand total all pest control products	...	35,802,533

(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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