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SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS

12 Months Ended September 30, 1963

Sales of pest control products in the period ending September 30, 1963 as reported by Canadian registrants were valued at \$36,416,622 an increase of 1.7 per cent over the \$35,802,533 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 \$13,470,319 (\$13,117,140); Livestock treatments, \$2,503,341 (\$3,382,014); Herbicides \$12,736,335 (\$11,333,397); Household and Industrial insecticides \$6,295,415 (\$6,783,549); Rodenticides \$556,633 (\$481,739) and unspecified \$854,579 (\$704,694).

- Notes: 1. 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.
2. All registrants, totalling 435 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 132 firms in all, and it is estimated that this group accounted for at least 95 per cent 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".

Industry Division

March 1964
6522-830

TABLE 1. Sales of Pest Control Products by Canadian Registrants

Item	Twelve months ended September 30, 1963	
	Quantity	Value \$
<u>(A) Agriculture</u>		
A - Arsenicals:		
1. Arsenate of lead	lb. 690,513	182,855
2. Arsenic dusts (without copper) ...	" 2,867,650	144,677
3. Calcium arsenate	" 91,793	9,571
4. Paris green	" 11,357	7,808
B - Botanicals:		
1. Rotenone dusts (not more than 1 per cent rotenone)	" 439,260	123,601
2. Other botanicals (ryania dusts, etc.)	" 35,961	7,073
C - Synthetic organics:		
1. Aldrin - Dusts (including granular dusts)	lb. aldrin 163,340	208,431
Emulsions	" 179,383	264,241
Wettable powders	" 12,860	37,978
2. B.H.C. and lindane, dusts emul- sions and wettable powders	lb. gamma 24,764	76,368
3. Chlordane - Dusts	lb. chlordane 20,119	30,240
Emulsions and wettable powders	" 16,200	33,224
4. Dieldrin - Dusts (including granu- lar dusts)	lb. dieldrin 47,032	94,010
Emulsions	" 171,648	490,391
Wettable powders	" 7,843	17,673
5. Dinitro compounds (phenols and cresols)	lb. 44,403	26,141
6. DDT - Dusts (including granular dusts)	lb. DDT 245,722	78,796
Emulsions	" 459,721	276,307
Wettable powders	" 691,755	289,127
7. Endrin - Dusts	lb. endrin 26,075	14,647
Emulsions and wettable powders	" 165,322	570,786
8. Malathion - Dusts	lb. malathion 10,703	21,257
Emulsions	" 98,229	140,202
Wettable powders	" 49,191	66,191
9. Methoxychlor (all formulations) ..	lb. methoxychlor 62,354	43,887
10. Parathion - Parathion bombs .....	...	(1)
Dusts .....	...	(1)
Emulsions	lb. parathion 18,444	34,224
Wettable powders	" 27,619	34,500
11. Soil fumigants	lb. 310,112	60,113

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

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

Item	Twelve months ended September 30, 1963	
	Quantity	Value
		\$
<u>(A) Agriculture - Continued</u>		
12. Specific Acaracides (including Aramite, chlorfenson, Fenson, Kelthane, ovex, sulphenon, Tedion, etc.) .....	...	402,325
13. TEPP and HETP (all forms) .....	...	6,865
14. Toxaphene emulsions	lb. toxaphene 29,913	22,486
15. Other synthetic organics:		
Chlorinated hydrocarbons, n.e.s. ....	...	277,534
Phosphates, n.e.s. ....	...	2,826,389
Other, n.e.s. ....	...	722,241
D - Copper compounds (with and without insecticide):		
1. Copper sulphate	lb. 1,758,507	186,719
2. Fixed copper spray materials	" 206,008	85,707
3. Fixed copper spray materials with insecticide	" 73,557	29,666
4. Fixed copper dusts with insecticide	" 789,394	127,267
5. Other copper compounds (including copper lime dusts, dry Bordeaux mixture, etc.)	" 59,082	13,022
E - Other than copper fungicides:		
1. Captan (all forms)	lb. captan 446,822	443,973
2. Dithiocarbamates - Ferbam	lb. ferbam 138,175	81,993
Nabam	lb. nabam 523,205	249,220
Thiram .....	...	(2)
Zineb	lb. zineb 71,788	40,698
Other (maneb, ziram, etc.) .....	...	773,709
3. Dithiocarbamates (with insecticide)	lb. 283,259	53,295
4. Dusting sulphurs	" 23,550	1,563
5. Liquid Lime-sulphur	Imp. gal. 282,063	89,133
6. Wettable sulphurs - Without insecticide	lb. 324,704	40,558
With insecticide	" 54,073	31,617
7. Other sulphurs (including dry lime-sulphur)	" 108,646	9,737
8. Mercurial fungicides (except seed treatments)	" 13,661	34,786
9. Other fungicides, not seed treatments (including dichlones, glyodin, etc.) .....	...	763,635

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

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

Item	Twelve months ended September 30, 1963	
	Quantity	Value
		\$
<u>(A) Agriculture - Continued</u>		
F - Seed Treatments:		
1. Fungicidal:		
Chlorobenzenes	lb.	32,234 16,477
Organic mercurials - Liquid ...	Imp. gal.	68,903 466,176
Powders ..	lb.	81,192 76,346
2. Fungicide - Insecticide combina- tions:		
Organic mercurials plus insecti- cide - Liquid	Imp. gal.	139,900 1,085,985
Powders	lb.	131,670 228,508
Other fungicide plus insecti- cide - Liquid	Imp. gal.	28,303 224,154
Powder	lb.	86,518 96,957
3. Other seed treatments	"	83,295 195,666
G - Miscellaneous:		
1. Mineral oils for dormant or foliage spraying	Imp. gal.	396,498 195,424
2. Nicotine liquids	"	5,774 35,997
3. Other agricultural dusts and sprays including hydrated lime .....		... 150,172
Total agricultural dusts and sprays .....		... 13,470,319
H - Livestock treatments (including poultry):		
Wormers:		
1. Coccidiosis treatments (except medicated feeds)	lb.	273,718 503,877
2. Phenothiazine	lb. phenothiazine	27,820 39,862
3. Piperazine	lb. piperazine	59,558 106,023
4. Other wormers .....		... 59,254
Other livestock treatments:		
1. Animal insect powders (except warble powders)	lb.	606,689 166,165
2. Barn sprays for residual effects	Imp. gal.	33,593 123,451
3. Blackhead treatments .....		... 417,310
4. Livestock sprays	Imp. gal.	196,487 356,611
5. Self-propelled livestock sprays	No.	16,799 19,813
6. Warble powders and washes	lb. rotenone	34,454 69,208
7. Other livestock treatments ....		... 641,767
Total livestock treatments ..		... 2,503,341

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

Item	Twelve months ended September 30, 1963	
	Quantity	Value
		\$
<u>(A) Agriculture - Concluded</u>		
I - Herbicides:		
1. Arsenicals	Imp. gal. 66,080	132,827
2. Borates, chlorates and borate-chlorate mixtures	lb. 3,197,821	298,049
3. Borate-chlorate-monuron mixtures	" 597,965	198,124
4. Butyric and propionic formulations (including 2,4-DB, MCPB, mecoprop, silvix, erbon, etc.) .....	...	(3)
5. Carbamates (including CDAA, CDEC, CIPC, IPC, etc.)	lb. 237,116	766,318
6. Cyanamides & potassium cyanates	" 153,083	27,553
7. Dalapon and mixtures including dalapon	" 166,455	145,597
8. Dinitros .....	...	192,436
9. MCPA - Amine	lb. acid 814,395	869,849
Ester	" 597,104	599,433
Other MCPA formulations	" 48,732	57,404
10. TCA	" 206,772	89,421
11. Triazines and substituted ureas, n.e.s.	1,250,098	1,885,365
12. 2, 4-D formulations:		
Amine liquid	lb. acid 1,329,548	883,037
Ester dust	" 24,793	39,512
Ester liquid	" 7,276,705	4,818,552
Other 2, 4-D formulations	" ...	(3)
13. 2, 4, 5-T formulations - Amine	" ...	(3)
- Ester	" 80,582	147,838
14. 2, 4-D, 2, 4, 5-T mixtures .....	...	607,349
2, 4-D portion of item 14	lb. acid 290,956	...
2, 4, 5-T portion of item 14	" 270,294	...
15. Other herbicides (excluding soil fumigants) .....	...	977,671
Total herbicides .....	...	12,736,335

(B) Household and industrial insecticides

A - Fumigants (excluding soil fumigants):

1. Naphthalene .....	...	(4)
2. Paradichlorobenzene	lb. 2,928,500	1,011,292
3. Other (except soil fumigants) but including carbon tetrachloride, ethylene dichloride etc.) .....	...	402,084

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

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

Note: MCPA data for 1962 revised. See Table 2, page 7 for details.

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

Item	Twelve months ended September 30, 1963	
	Quantity	Value
		\$
<u>(B) Household and Industrial</u> <u>Insecticides - Concluded</u>		
B - Powders and Dusts:		
1. Ant traps	lb.	498,671 75,627
2. Chlordane insect powders	"	25,987 4,137
3. DDT insect powders (including those with pyrethrum)	"	47,590 17,793
4. Fly baits	"	238,925 125,832
5. Insect powders (without DDT)	"	251,896 37,266
6. Lindane (for vaporizers and fumigators)	lb. lindane	4,556 20,513
7. Lindane dispensers:		
Continuous vaporization type	No.	102 ...
Non-continuous fumigation type	"	- ...
8. Other powders and dusts (including insect smokes) .....		... 19,225
C - Sprays and aerosol bombs:		
1. Mill and warehouse sprays (pyrethrum type etc.)	Imp. gal.	49,652 285,648
2. Residual sprays:		
With DDT	"	45,887 72,931
Chlorinated hydrocarbons, other than DDT	"	26,234 103,458
3. Self-propelled insecticides:		
Residual type:		
For fabric protection	No.	331,413 294,014
Other	"	133,116 93,152
Space spray type:		
For use on foliage	"	1,872,308 1,739,931
Not for use on foliage	"	943,864 716,324
4. Space or air sprays:		
Chlorinated hydrocarbon type (e.g. DDT, methoxychlor etc.)	Imp. gal.	3,276 35,200
Other	"	62,821 150,799
D - Mosquito and fly repellants:		
1. Dimethyl phthalate, indalone, ethyl hexandiol, toluamide, etc.:		
Liquids .....		... 297,374
Pressurized	No.	675,098 536,504
Other (including creams and sticks) .....		... 168,638
E - Other Household and industrial insecticides		
		... 87,673
Total household and industrial insecticides .....		... 6,295,415

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

Item	Twelve months ended September 30, 1963	
	Quantity	Value
		\$
<u>(C) Rodenticides</u>		
A - Mouse and rat poisons:		
1. Warfarin and pival type - 0.5%	lb. 95,881	74,301
0.025%	" 721,598	298,174
2. Other mouse and rat poisons	" 159,793	121,548
B - Other rodenticides (mole killers, gopher poisons, etc.) .....	...	62,610
Total rodenticides .....	...	556,633
Total pest control products specified in detail .....	...	35,562,043
Total pest control products not specified in detail .....	...	854,579
Grand total all pest control products .....	...	36,416,622

(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.:

TABLE 2. Revised Sales of MCPA, Twelve Months Ended September 1962

Item	Quantity	Value
		\$
MCPA - Amine	lb. acid 739,338	816,895
Ester	" 406,776	502,035
Other MCPA formulations	" 64,359	74,439

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