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SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS

12 Months Ended September 30, 1960

Sales of pest control products in the period ending September 30, 1960 as reported by Canadian registrants were valued at \$27,032,451 an increase of 6.3% over the \$25,322,972 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 \$9,871,727 (\$9,630,141); Livestock treatments, \$1,888,894 (\$1,747,858); Herbicides \$8,396,160 (\$7,608,144); Household and Industrial insecticides \$5,785,146 (\$5,404,943); Rodenticides \$510,599 (\$446,886) and unspecified \$580,000 (\$485,000).

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 \$5,000 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 \$5,000) 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 \$5,000) is shown under the heading of "Products not specified in detail".

Prepared in the Industry and Merchandising Division

6523-578-90

Table 1 - Sales of Pest Control Products by Canadian Registrants

Table 1 - Sales of Pest Control Products by Canadian Registrants			
Item	Unit of measure	12 months ended September 30, 1960	
		Quantity	Value \$
(A) <u>Agriculture</u>			
(A) - Arsenicals:			
1. Arsenate of lead	1b.	657,100	180,855
2. Arsenic dusts (without copper) ...	1b.	2,920,075	117,726
3. Calcium arsenate	1b.	159,554	13,075
4. Paris green	1b.	23,566	11,736
(B) - Botanicals:			
1. Rotenone dusts (not more than 1% rotenone)	1b.	499,432	142,983
2. Other botanicals (ryania dusts, etc.)	1b.	670	604
(C) - Synthetic organics:			
1. Aldrin - Dusts (including granular dusts)	1b. aldrin	134,489	192,097
- Emulsions	1b. aldrin	298,264	452,785
- Wettable powders	1b. aldrin	48,509	68,376
2. B.H.C. and lindane, dusts emulsions and wettable powders .	1b. gamma	18,005	38,940
3. Chlordane - Dusts	1b. chlordane	11,134	37,005
- Emulsions and wetable powders ...	1b. chlordane	19,726	39,537
4. Dieldrin - Dusts (incl. granular dusts)	1b. dieldrin	32,444	59,335
- Emulsions	1b. dieldrin	138,194	348,585
- Wettable powders	1b. dieldrin	38,991	86,269
5. Dinitro compounds (phenols and cresols)	1b.	46,476	16,813
6. DDT - Dusts (including granular dusts)	1b. DDT	39,138	65,700
- Emulsions	1b. DDT	234,928	286,081
- Wettable powders	1b. DDT	723,335	344,416
7. Endrin - Dusts	1b. endrin	5,942	32,720
- Emulsions and wettable powders	1b. endrin	32,148	161,002
8. Malathion - Dusts	1b. malathion	44,566	109,495
- Emulsions	1b. malathion	103,184	213,901
- Wettable powders	1b. malathion	87,046	120,819
9. Methoxychlor (all formulations) .	1b. methoxychlor	92,150	60,604
10. Parathion - Parathion bombs .....	...	xxxxx	(1)
- Dusts .....	...	xxxxx	(1)
- Emulsions*	1b. parathion	24,758	38,377
- Wettable powders	1b. parathion	65,963	63,344
11. Soil fumigants	1b.	106,950	47,009
12. Specific Acaracides (including Aramite, chlorfenson, fenson, Kelthane, ovex, Sulphenon, Tedion, etc.) .....	...	xxxxx	198,951
13. TEPP and HETP (all forms) .....	...	xxxxx	9,381
14. Toxaphene emulsions	1b. toxaphene	167,245	83,565

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

Table 1 - Sales of Pest Control Products by Canadian Registrants (continued)

Item	Unit of measure	12 months ended September 30, 1960	
		Quantity	Value \$
(A) <u>Agriculture</u> (continued)			
15. Other synthetic organics:			
Chlorinated hydrocarbons, n.e.s. ....	...	xxxx	210,959
Phosphates, n.e.s. ....	...	xxxx	375,864
Other, n.e.s. ....	...	xxxx	135,363
(D) - Copper compounds (with and without insecticide):			
1. Copper sulphate	lb.	1,781,737	196,986
2. Fixed copper spray materials	lb.	323,870	127,993
3. Fixed copper spray materials with insecticide	lb.	67,332	27,358
4. Fixed copper dusts with insecticide	lb.	1,168,234	184,708
5. Other copper compounds (including copper lime dusts, dry Bordeaux mixture, etc.)	lb.	161,011	25,419
(E) - Other than copper fungicides:			
1. Captan (all forms)	lb. captan	375,633	293,012
2. Dithiocarbamates - Ferbam	lb. ferbam	250,561	120,932
- Nabam	lb. nabam	546,801	239,135
- Thiram .....	...	xxxx	(1)
- Zineb	lb. zineb	90,508	61,377
- Other (maneb, ziram, etc.) .	...	xxx	640,281
3. Dithiocarbamates (with insecticide)	lb.	402,228	80,894
4. Dusting sulphurs	lb.	38,925	2,390
5. Liquid Lime-sulphur	Imp. gal.	275,332	92,660
6. Wettable sulphurs - Without insecticide .	lb.	707,193	63,990
- With insecticide .	lb.	89,262	48,540
7. Other sulphurs (including dry lime-sulphur)	lb.	214,432	15,174
8. Mercurial fungicides (except seed treatments)	lb.	44,020	76,013
9. Other fungicides, not seed treatments (including dichlones, glyodin, etc.) .....	...	xxxx	502,738
(F) - Seed treatments:			
1. Chlorobenzenes	lb.	46,424	29,444
2. Fungicide - insecticide combination treatments:			
Aldrin plus fungicide	lb.	129,801	194,533
Other insecticides plus fungicide	lb.	366,216	573,098

(1) Included with -"Other (maneb, ziram, etc.) "

Table 1 - Sales of Pest Control Products by Canadian Registrants (continued)

Item	Unit of measure	12 months ended September 30, 1960	
		Quantity	Value
(A) Agriculture (Continued)			
\$			
(F) - Seed Treatments (Continued)			
3. Organic mercurials - Liquids .....	...	xxxx	784,275
- Powders .....	...	xxxx	211,485
4. Other seed treatments	lb.	472,758	529,229
(G) - Miscellaneous:			
1. Mineral oils for dormant or foliage spraying	Imp. gal.	277,382	161,727
2. Nicotine liquids	Imp. gal.	3,690	21,344
3. Other agricultural dusts and sprays including hydrated lime ..	...	xxxx	202,720
TOTAL AGRICULTURAL DUSTS AND SPRAYS ..		xxxx	9,871,727
(H) - Livestock treatments (including poultry):			
Wormers:			
1. Coccidiosis treatments (except medicated feeds)	lb.	211,083	306,277
2. Phenothiazine	lb. phenothiazine	21,131	23,858
3. Piperazine	lb. piperazine	90,455	100,826
4. Other wormers .....	...	xxxx	54,048
Other livestock treatments:			
1. Animal insect powders (except warble powders)	lb.	557,110	153,531
2. Barn sprays for residual effects .	Imp. gal.	20,027	87,256
3. Blackhead treatments .....	...	xxxx	326,932
4. Livestock sprays	Imp. gal.	233,186	432,680
5. Self-propelled livestock sprays ..	Number	18,752	18,470
6. Warble powders and washes (rotenone only)	lb. rotenone	26,792	85,047
7. Other livestock treatments (including systemic insecticides) ...	...	xxxx	299,894
TOTAL LIVESTOCK TREATMENTS		xxxx	1,888,819
(I) - Herbicides:			
1. Arsenicals	Imp. gal.	16,635	97,167
2. Borates, chlorates and borate- chlorate mixtures, excluding next item	lb.	3,877,072	489,764
3. Borate-chlorate-monuron mixtures, excluding preceding item	lb.	421,486	113,955
4. Butyric and propionic formulations (including 2,4-DB, MCPB, mecoprop, silvex, erbon, etc.) .....	...	xxxx	(1)
5. Carbamates (including CDAA, CDEC, CIPC, IPC, etc.)	lb.	58,005	31,675
6. Cyanamides and potassium cyanates	lb.	113,741	29,973

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

Table 1 - Sales of Pest Control Products by Canadian Registrants (continued)

Item	Unit of measure	12 months ended September 30, 1960	
		Quantity	Value \$
(A) <u>Agriculture</u> (concluded)			
(I) - Herbicides (Continued)			
7. Dalapon and mixtures including dalapon	lb.	121,647	93,888
8. Dinitros .....	...	xxxx	(1)
9. MCPA - Amine	lb. acid	393,792	501,240
- Ester	lb. acid	309,184	437,566
- Other MCPA formulations ..	lb. acid	69,904	68,967
10. TCA	lb. acid	265,735	91,677
11. Triazines and substituted ureas, n.e.s. ....	...	xxxx	(1)
12. 2, 4-D formulations:			
Amine liquid	lb. acid	903,499	796,666
Ester dust	lb. acid	100,278	148,532
Ester liquid	lb. acid	4,942,376	3,803,006
Other 2, 4-D formulations	lb. acid	2,040	99,436
13. 2, 4, 5-T formulations - Amine ..	lb. acid	1,201	975
- Ester ..	lb. acid	133,503	183,469
14. 2, 4-D, 2, 4, 5-T mixtures .....	...	xxxx	498,088
2, 4-D portion of item 14	lb. acid	177,162	xxxx
2, 4, 5-T portion of item 14 .	lb. acid	163,720	xxxx
15. Other herbicides (excluding soil fumigants) .....	...	xxxx	910,116
TOTAL HERBICIDES .....	...	xxxx	8,396,160
(B) <u>Household and Industrial Insecticides</u>			
(A) - Fumigants (Excluding soil fumigants):			
1. Napthalene	lb.	172,501	306,442
2. Paradichlorobenzene	lb.	2,698,600	1,089,573
3. Other (except soil fumigants) but including carbon tetrachloride, ethylene dichloride etc.) .....	...	xxxx	87,049
(B) - Powders and Dusts:			
1. Ant traps	lb.	186,434	27,064
2. Chlordane insect powders	lb.	24,412	4,190
3. DDT insect powders (including those with pyrethrum)	lb.	51,685	22,587
4. Fly baits	lb.	283,675	135,235
5. Insect powders (without DDT)	lb.	160,892	18,643
6. Lindane (for vaporizers and fumigators)	lb. lindane	48,188	106,973
7. Lindane dispensers:			
Continuous vaporization type ..	...	-	xxxx
Non-continuous fumigation type.	Number	4,500	xxxx
8. Other powders and dusts (including insect smokes) .....	...	xxxx	13,801

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

Table 1 - Sales of Pest Control Products by Canadian Registrants (continued)

Item	Unit of measure	12 months ended September 30, 1960	
		Quantity	Value
(B) <u>Household and Industrial Insecticides</u>			
			\$
(C) - Sprays and Aerosol bombs:			
1. Mill and warehouse sprays (pyrethrum type etc.)	Imp. gal.	33,359	170,059
2. Residual sprays:			
With DDT	Imp. gal.	89,398	116,938
Chlorinated hydrocarbons, other than DDT	Imp. gal.	37,551	152,672
3. Self propelled insecticides:			
Residual type - for fabric protection ...	Number	202,280	173,910
- Other	Number	83,842	63,826
Space spray type - for use on foliage ...	Number	1,560,242	1,309,783
- not for use on foliage.	Number	1,365,936	817,977
4. Space or air sprays - Chlorinated hydrocarbon type (e.g. DDT, methoxychlor etc.)	Imp. gal.	5,957	48,240
Other	Imp. gal.	37,650	85,967
(D) - Mosquito and Fly repellants:			
1. Dimethyl phthalate, inialone, ethyl hexandiol, toluamide, etc.)			
Liquids .....	...	xxxx	306,968
Pressurized	Number	674,443	488,990
Other (including creams and sticks) .....	...	xxxx	144,316
(E) - Other Household and industrial insecticides			
		xxxx	93,943
TOTAL HOUSEHOLD AND INDUSTRIAL INSECTICIDES		xxxx	5,785,146
(C) <u>Rodenticides</u>			
(A) - Mouse and rat poisons:			
(1) Warfarin and pival type - 0.5% ..	lb.	87,174	124,371
(- 0.025% ..	lb.	534,186	242,202
(2) Other mouse and rat poisons	lb.	114,372	111,139
(B) - Other rodenticides (mole killers, gopher poisons, etc.)			
		xxxx	32,887
TOTAL RODENTICIDES		xxxx	510,599

Table 1 - Sales of Pest Control Products by Canadian Registrants (concluded)

Item	Unit of measure	12 months ended September 30, 1960	
		Quantity	Value
			\$
TOTAL PEST CONTROL PRODUCTS SPECIFIED IN DETAIL		xxxx	26,452,451
TOTAL PEST CONTROL PRODUCTS NOT SPECIFIED IN DETAIL		xxxx	580,000
GRAND TOTAL ALL PEST CONTROL PRODUCTS		xxxx	27,032,451

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.:

- (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.

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