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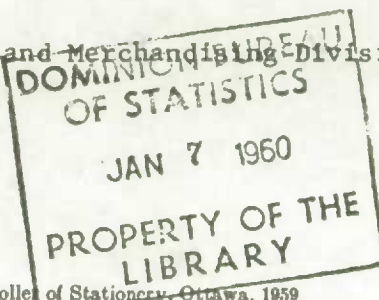
SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS
12 Months Ended September 30, 1959

Sales of pest control products in the period ending September 30, 1959 as reported by Canadian registrants were valued at \$24,837,972. A breakdown of this total by group shows sales of agricultural dusts and sprays at \$9,630,141; livestock treatments at \$1,747,858; herbicides at \$7,608,144; household and industrial insecticides at \$5,404,943, and rodenticides at \$446,886. Sales of products for which details are not available totalled \$485,000 - see footnote 3.

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 \$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.



6523-578-99

Table 1 - Sales of Pest Control Products by Canadian Registrants

	Unit of measure	12 months ended September 30, 1959 Quantity	Value \$
(A) <u>Agriculture</u>			
<u>Adjuvants -</u>			
Soaps, blood albumen, casein, oil spreaders, stickers, etc. ....	...	xxx	3,785
<u>Crop and seed treatment - agricultural dusts and sprays -</u>			
<u>Arsenicals -</u>			
Arsenate of lead	lb.	774,952	213,270
Calcium arsenate	lb.	215,290	17,734
2% arsenic dusts (without copper)	lb.	2,929,337	106,142
Paris green	lb.	28,553	24,558
<u>Botanicals -</u>			
Rotenone dusts (containing not more than 1% rotenone)	lb.	534,137	158,259
Other botanicals (including ryania dusts, etc.)	lb.	32,176	15,527
<u>Synthetic organics -</u>			
Aldrin - Dusts .....	...	xxx	215,847
- Emulsions and wettable powders. ....	...	xx	346,899
B.H.C. and lindane - Emulsions	lb. of gamma	5,839	14,098
- Wettable powders and dusts	lb. of gamma	21,569	33,869
Chlordane - Dusts	lb.	142,808	29,483
- Emulsions	Imp. gal.	3,509	24,530
- Wettable powders	lb.	5,000	3,000
Dieldrin - Dusts	lb.	83,347	31,727
- Emulsions	Imp. gal.	238,935	1,051,088
- Wettable powders	lb.	21,631	26,324
Dinitro compounds (phenol and cresol) ..	lb.	32,083	12,535
DDT - Dusts	lb.	859,572	64,681
- 25% emulsifiable solutions	Imp. gal.	112,033	263,455
- 50% wettable powders	lb.	1,502,386	386,924
Endrin - Dusts	lb.	364,375	34,304
- Emulsions	lb. of endrin	49,228	204,730
Malathion - Dusts	lb.	728,155	106,305
- Emulsions	Imp. gal.	14,292	171,328
- Wettable powders	lb.	373,609	177,944
Methoxychlor	lb.	89,567	55,599
Parathion - Parathion bombs	No.	883	3,873
- Dusts	lb.	28,940	6,825
- 15% wettable powder	lb.	230,349	88,150
- Emulsions	lb. parathion	1,295	12,218
T.E.P.P. and H.E.T.P. (all forms) .....	...	xxx	10,163
Toxaphene emulsions .....	...	xxx	71,089
Soil fumigants	lb.	112,599	43,943
<u>Specific Acaracides (Including Dimite, Sulphenone, Tedion, Neotran, Merfesco, Ovex and Ovotran, Ardmite, Kelthane, Fensome, Elimate, etc.)</u>			
	lb.	168,609	141,045
Other synthetic organics .....	...	xxx	574,970

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

	Unit of measure	12 months ended September 30, 1959	
		Quantity	Value
(A) <u>Agriculture</u> (continued)			
\$			
<u>Crop and seed treatment - agricultural dusts and sprays - (concluded)</u>			
<u>Copper compounds</u> (with and without an insecticide) -			
Copper sulphate	lb.	2,516,648	271,319
Fixed copper spray materials	lb.	352,107	92,241
Fixed copper spray materials with DDT ..	lb.	105,344	36,105
Fixed copper dusts with DDT or arsenic or both	lb.	1,235,455	174,866
Other copper compounds (Including copper lime dusts, dry Bordeaux mixture, etc.)	...	xxx	22,098
<u>Other than copper fungicides -</u>			
Liquid lime-sulphur	Imp. gal.	240,681	79,794
Dusting sulphurs	lb.	21,583	1,209
Wettable sulphurs - without insecticide.	lb.	579,554	58,882
- with insecticide ...	lb.	124,069	59,566
Other sulphurs (including dry lime-sulphur)	lb.	446,027	31,294
Captan (all forms)	lb. of captan	364,418	360,485
Dithiocarbamates - Nabam	lb. of nabam	684,652	171,418
- Other dithiocarbamates:			
- without insecticide	lb.	1,504,032	797,958
- with insecticide ..	lb.	729,013	90,900
Mercurial fungicides (except seed treatments)	lb.	38,681	68,824
Other fungicides not seed treatments (including Crag, Glyodin, etc.)	lb.	701,243	601,657
<u>Seed treatments -</u>			
Organic mercurials - Liquid mixtures ...	...	xxx	521,382
- Dry mixtures .....	...	xxx	193,596
Chlorobenzene	lb.	56,114	36,741
Fungicide insecticide combination treatments:			
Aldrin plus fungicide	lb.	138,354	218,734
"Other" insecticides plus fungicide (including lindane plus fungicide) ..	lb.	374,688	398,447
Other seed treatments	lb.	220,855	239,891
<u>Nicotine -</u>			
Nicotine sulphate	lb.	29,924	28,038
Other nicotine preparations	lb.	44	25
<u>Miscellaneous -</u>			
Mineral oils for dormant or foliage spraying	Imp. gal.	94,235	54,194
Other agricultural dusts and sprays, including hydrated lime .....	...	xxx	274,256
TOTAL AGRICULTURAL DUSTS AND SPRAYS .....	...	xxx	9,630,141

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

	Unit of measure	12 months ended September 30, 1959	
		Quantity	Value
(A) Agriculture (concluded)			
			\$
<u>Livestock treatments (including poultry) -</u>			
<u>Wormers -</u>			
Coccidiosis treatments (except medicated feeds)	lb.	182,295	306,697
Phenothiazene	lb.	27,656	33,488
Piperazine	lb.	533,590	113,368
Other wormers .....	...	xxx	70,010
<u>Other livestock treatments -</u>			
Blackhead treatments .....	...	xxx	(1)
Animal insect powder (except next item) ..	lb.	487,843	135,290
Warble powders and washes (rotenone only) ..	lb.	216,850	113,581
Barn sprays for residual effects	Imp. gal.	16,821	72,331
Livestock sprays	Imp. gal.	175,615	327,448
Self-propelled livestock sprays	No.	21,746	19,273
Other livestock treatments .....	...	xxx	556,372
TOTAL LIVESTOCK TREATMENTS .....	...	xxx	1,747,858
<u>Herbicides (3)</u>			
Arsenicals	Imp. gal.	27,465	56,583
Borates, chlorates and borate-chlorate mixtures	lb.	6,954,103	592,712
Cyanamides and cyanates	lb.	297,687	44,581
Dinitros	lb.	112,855	64,897
I.P.C. and C.I.P.C.	lb.	42,072	50,588
Mineral oils .....	...	xxx	(2)
T.C.A.	lb. of acid	336,924	160,491
M.C.P.A. (3) - Ester	lb. of acid	205,561	282,715 ✓
- Amine	lb. of acid	261,091	341,667 ✓
- Other M.C.P.A. formulations.	lb. of acid	38,736	46,464
2, 4, 5 - T formulations (3) - Ester	lb. of acid	349,123	394,417
- Amine	lb. of acid	21,081	15,582
2, 4 - D formulations (3) - Ester dust	lb. of acid	90,916	111,420
- Ester liquid ..	lb. of acid	3,518,715	2,878,037 ✓
- Amine liquid ..	lb. of acid	668,414	587,650 ✓
- Other 2, 4-D formulations .	...	xxx	128,683
2, 4 - D, 2, 4, 5 - T mixtures .....	...	xxx	574,433
- 2, 4-D portion ..	lb. of acid	222,792	xxx
- 2, 4, 5-T portion ..	lb. of acid	212,012	xxx
Soil sterilants n.e.s. (including CMU, Erban, Monuron, Simazon, dalapon, creosote, etc. and mixtures of same) ....	...	xxx	966,047 ✓
Other herbicides .....	...	xxx	311,177
TOTAL HERBICIDES .....	...	xxx	7,608,144
<u>(B) Household and Industrial Insecticides</u>			
<u>Fumigants - (excluding soil fumigants)</u>			
Napthalene	lb.	1,256,812	201,672 ✓
Paradichlorobenzene	lb.	3,383,892	1,124,981 ✓
Other fumigants (except soil fumigants) ..	...	xxx	151,728

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

	Unit of measure	12 months ended September 30, 1959 Quantity	Value
(B) <u>Household and Industrial</u> <u>Insecticides</u> (concluded)			\$
<u>Powders and dusts -</u>			
DDT insect powders	lb.	16,518	7,850
DDT insect powders with pyrethrum	lb.	13,762	12,701 ✓
Insect powders (without DDT)	lb.	158,865	21,419
Lindane (for vaporizers)	lb.	10,606	64,973
Lindane vaporizers - Continuous type	No.	3,606	43,450
- Non-continuous type ...	No.	4,193	9,696
Chlordane insect powders	lb.	21,464	5,892
Other powders and dusts (including insect smokes) .....	...	xxx	33,206
Fly baits	lb.	228,101	93,818
<u>Sprays and aerosol bombs -</u>			
Space or air sprays without DDT	Imp. gal.	25,908	192,214
Space or air sprays with DDT	Imp. gal.	36,356	113,634
Residual sprays with 5% DDT	Imp. gal.	34,836	86,061
Residual sprays with other than DDT	Imp. gal.	35,583	146,255
Mill and warehouse sprays, (pyrethrum type etc.)	Imp. gal.	27,096	147,425
Self-propelled insecticides (e.g. aerosols):			
Space spray type	No.	2,797,523	2,115,700 ✓
Residual type	No.	225,705	206,642 ✓
<u>Mosquito and fly repellents -</u>			
Dimethyl phthalate, indalone, ethyl hexandiol, toluamide, etc. ....	...	xxx	443,504 ✓
Other household and industrial insecticides. ....	...	xxx	182,122 ✓
TOTAL HOUSEHOLD AND INDUSTRIAL INSECTICIDES ..	...	xxx	5,404,943
(C) <u>Rodenticides</u>			
<u>Mouse and rat poisons -</u>			
Warfarin and pival type - 0.5%	lb.	34,260	53,087
- 0.025%	lb.	616,983	254,014
Other mouse and rat poisons	lb.	123,973	120,142
Other rodenticides (mole killers, gopher poisons, etc.) .....	...	xxx	19,643
TOTAL RODENTICIDES .....	...	xxx	446,886
TOTAL PEST CONTROL PRODUCTS SPECIFIED			
IN DETAIL .....	...	xxx	24,837,972
TOTAL PEST CONTROL PRODUCTS NOT SPECIFIED			
IN DETAIL .....	...	xxx	485,000
GRAND TOTAL ALL PEST CONTROL PRODUCTS .....	...	xxx	25,322,972
(1) Included with "other livestock treatments".			
(2) Included with "other herbicides".			
(3) Firms reporting M.C.P.; 2,4,5-T and 2,4-D were asked to record their sales on a basis of acid equivalent, i.e.:			
(a) 10,000 gallons of a 64 oz. ester were to be recorded as 40,000 lb.			
(b) 100,000 lb. of a 2,4-D dust (5%) were to be recorded as 5,000 lb.			
(c) 5,000 gallons of an 80 oz. amine were to be recorded as 25,000 lb.			

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