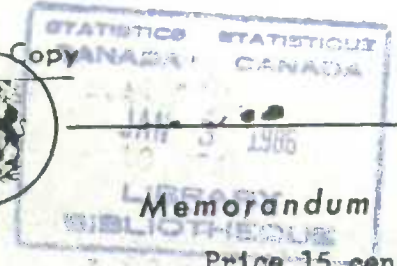


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DOMINION BUREAU OF STATISTICS

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SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS, 1953

Sales of pest control products in 1953, as reported by Canadian registrants, were valued at \$17,686,899, an increase of 9.2 per cent over the 1952 total of \$16,200,047. The advance was a continuation of the trend which has been steadily upward since 1947 when sales were first compiled. Totals on a comparable basis, that is, excluding disinfectants which have not been registered since 1950, are as follows: 1947, \$7,200,484; 1948, \$10,315,754; 1949, \$12,159,844; 1950, \$13,557,741; 1951, \$15,801,002; and 1952, \$16,200,047.

Three of the five groups covered in this survey reported substantial increases in sales in 1953 as compared with 1952. Sales of livestock treatments at \$1,586,810 showed the largest gain, advancing 26.2 per cent over the total for the previous year. The other groups registering gains were household and industrial insecticides at \$3,794,652, up 25.1 per cent, and agricultural dusts and sprays at \$6,291,721, up 20.9 per cent. Totals and percentage losses for those groups showing a decline in sales in 1953 were as follows: herbicides at \$5,699,566, down 8.8 per cent, and rodenticides at \$314,150, down 31.5 per cent.

The present report is the seventh issued by the Bureau in conjunction with the Department of Agriculture. It gives final statistics for 1953 on the sales of all pest control products by establishments, including foreign firms registered with the Department of Agriculture to sell such products in Canada. Also included are comparable figures for 1952 and data on exports.

About 443 out of a total of 506 registrants furnished reports in this survey, and it is estimated that this group accounted for at least 95 per cent of the total sales of pest control products in Canada. In order to avoid duplication, a special procedure was followed whereby only the sales of pest control products actually registered with the Department of Agriculture under the registrants' own number were reported. At the same time, sales of these products in bulk, for repackaging or reprocessing, were completely omitted, as such were eventually reported by the purchasing registrant. In the case of export sales, however, all pest control products, whether registered by the reporting firms or their suppliers, were supposed to be reported.

Prepared in the Metal and Chemical Products Section, Industry and Merchandising Division.

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Table 1 - Sales of Pest Control Products by Canadian Registrants, 1952 and 1953

Commodity	Unit of measure	1952		1953	
		Quantity	Value \$	Quantity	Value \$
(A) <u>Agriculture</u>					
<u>Adjuvants -</u>					
Soaps, blood albumen, casein, oil spreaders, etc. ....	...	...	5,103	...	15,798
<u>Crop and seed treatment -</u>					
<u>Agricultural dusts and sprays (for use on field, garden, greenhouse and orchard crops; on seeds; but not preparations for use on live- stock, and not weedicides):</u>					
<u>Arsenicals -</u>					
Arsenate of lead	lb.	920,138	271,831	1,114,252	283,873
Calcium arsenate	lb.	469,665	51,600	608,566	63,591
2% arsenic dusts (without copper)	lb.	4,354,990	176,262	4,880,430	214,519
Paris green	lb.	68,996	32,930	47,632	22,125
<u>Fluorides -</u>					
Cryolite	lb.	2,440	242	310	62
Sodium fluosilicate	lb.	...	...	350	770
<u>Botanicals -</u>					
Rotenone dusts (containing not more than 1% rotenone)	lb.	514,803	124,913	535,881	148,836
Ryania dusts	lb.	...	(1)	1,470	152
Other botanicals	lb.	...	18,287	40,449	15,914
<u>Synthetic organics -</u>					
<u>Aldrin:</u>					
Dusts	lb.(of aldrin)	142	242	3,967	13,818
Emulsions and wettable powders(2)	lb.(of aldrin)	9,323	29,820	23,863	67,049
B.H.C.: 6% gamma and under	lb.	67,330	14,554	81,181	9,568
Over 6% gamma (except B.H.C., as lindane)	lb.	3,260	1,359	8,215	3,891
<u>B.H.C. (as lindane):</u>					
Emulsions	Imp. gal.	1,799	14,381	2,956	22,454
Wettable powders	lb.	40,964	156,454	62,398	139,479
<u>Chlordane:</u>					
Dusts	lb.	68,786	9,490	300,242	38,209
Emulsions	Imp. gal.	1,591	16,483	2,495	22,267
Wettable powders ...	lb.	2,344	1,647	13,900	5,500
<u>Dieldrin:</u>					
Dusts	lb.	...	(9)	...	...
Emulsions	Imp. gal.	...	(9)	262	2,600
Wettable powders ...	lb.	...	(9)	3,500	4,354
<u>Dinitro compounds (phenol and cresol)</u>					
...	lb.	114,841	27,529	36,953	15,533
<u>DDT:</u>					
Dusts	lb.	2,028,403	169,956	2,333,293	186,570
25% emulsifiable solutions.	Imp. gal.	41,739	144,704	57,612	161,557
50% wettable powders	lb.	1,052,585	387,975	1,200,368	327,278
<u>Malathion:</u>					
Dusts	lb.	...	(9)	...	...
Emulsions	Imp. gal.	...	(9)	1,025	11,473
Wettable powders ...	lb.	...	(9)	8,044	6,300
<u>Methoxychlor</u>					
...	lb.	...	(3)	42,268	29,620

See footnotes at end of table.



Table 1 - Sales of Pest Control Products by Canadian Registrants, 1952 and 1953 (Continued)

Commodity	Unit of measure	1952		1953	
		Quantity	Value	Quantity	Value
			\$		\$
(A) <u>Agriculture</u> (continued)					
<u>Agricultural dusts and sprays</u> (continued):					
<u>Synthetic organics</u> (concluded) -					
Parathion: 15% wettable powders ..	lb.	198,183	117,157	225,371	127,431
All other forms .....	...	...	9,329	...	11,023
T.E.P.P. and H.E.T.P. (all forms) .	...	...	18,135	...	22,003
T.D.E. or D.D.D. ....	...	...	10,847	...	23,751
Toxaphene emulsions .....	...	...	(3)	...	2,805
Soil fumigants	lb.	14,961	3,777	23,704	13,556
Other synthetic organics .....	...	...	65,741	...	88,640
<u>Copper compounds</u> (with and without an insecticide) -					
Copper sulphate	lb.	3,727,650	449,331	2,718,088	294,336
Copper-lime dusts	lb.	117,600	12,809	195,010	22,444
Fixed copper spray materials	lb.	734,086	165,841	601,655	182,814
Fixed copper spray materials with DDT	lb.	666,801	95,950	159,992	55,393
Fixed copper dusts with DDT or arsenic, or both	lb.	2,153,673	245,646	1,993,011	245,717
Copper compounds with other insecticides	lb.	49,166	6,356	84,311	10,499
Dry Bordeaux mixture	lb.	143,395	33,435	85,915	18,534
Other copper compounds .....	...	...	16,460	...	28,691
<u>Other than copper fungicides</u> -					
Dry lime-sulphur	lb.	22,116	9,517	30,367	11,847
Liquid lime-sulphur	Imp. gal.	427,213	112,161	287,222	69,664
Dusting sulphurs: Without insecticide	lb.	61,254	3,342	71,420	3,991
With insecticide	lb.	10,710	953	12,245	1,387
Wettable sulphurs: Without insecticide	lb.	2,205,894	190,313	2,570,142	205,550
With insecticide	lb.	315,531	45,465	233,666	37,943
<u>Dithiocarbamates</u> :					
Without an insecticide	lb.	1,013,153	256,877	1,088,967	358,847
With an insecticide	lb.	768,108	95,964	953,672	113,778
Mercurial fungicides (except seed treatments)	lb.	4,311	6,937	48,773	75,591
Other fungicides (not seed treatments)	lb.	892,157	163,008	1,100,336	307,183
<u>Seed treatments</u> -					
Organic mercurials .....	...	...	682,063	...	760,549
Chlorobenzene	lb.	155,630	92,702	155,208	88,992
Fungicide-insecticide combination treatments	lb.	...	(4)	198,830	898,086
Other seed treatments	lb.	...	419,108	174,903	60,443
<u>Nicotine</u> -					
Nicotine sulphate	lb.	80,252	100,363	79,520	92,035
Other nicotine preparations	lb.	29,794	15,526	21,335	11,408

See footnotes at end of table.

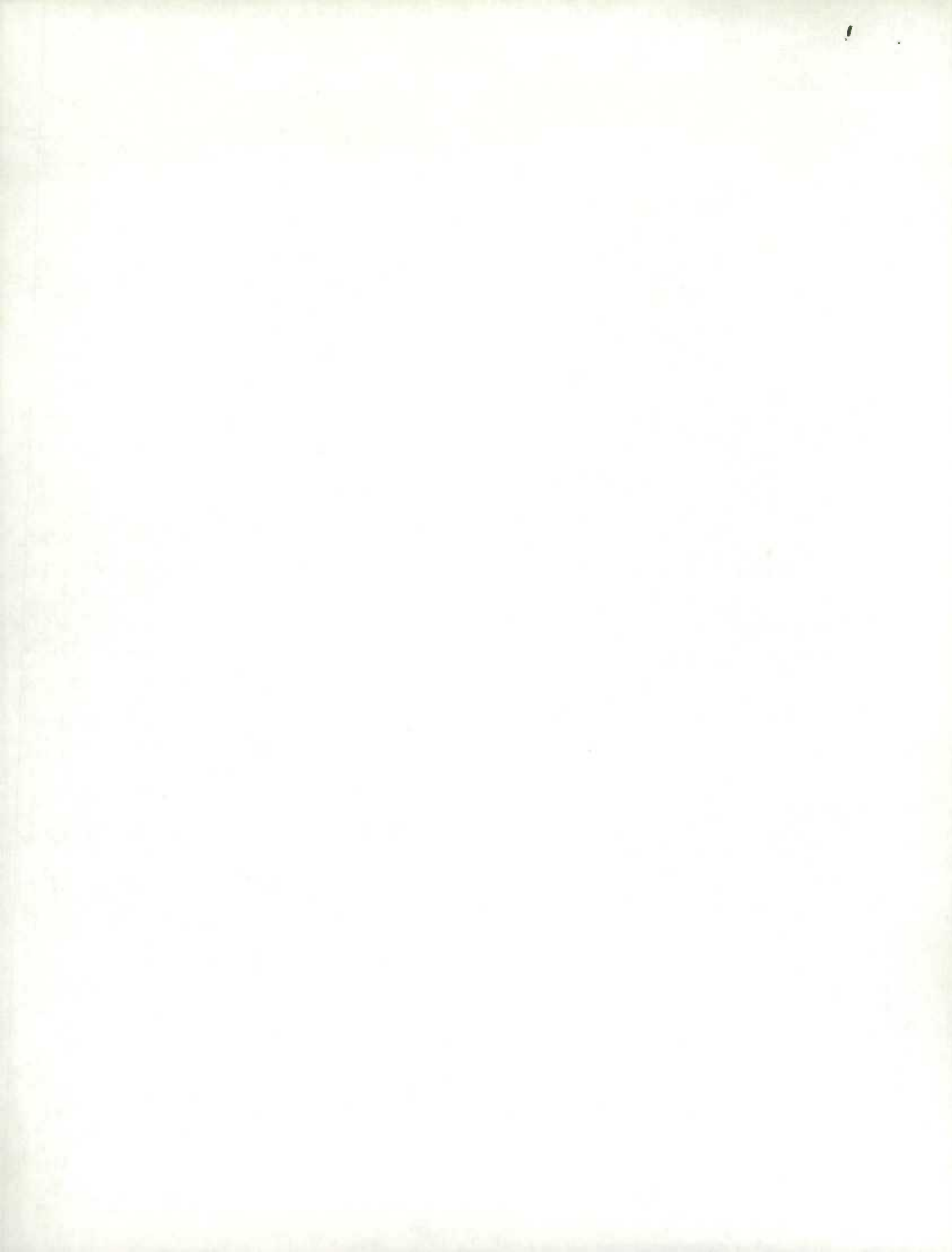


Table 1 - Sales of Pest Control Products by Canadian Registrants, 1952 and 1953 (Continued)

Commodity	Unit of measure	1952		1953	
		Quantity	Value \$	Quantity	Value \$
(A) <u>Agriculture</u> (continued)					
<u>Agricultural dusts and sprays</u> (concluded):					
<u>Miscellaneous</u> -					
Zinc compounds, including zinc					
"safeners," e.g., zinc sulphate ..	lb.	46,510	5,581	78,921	9,441
Vine killers (potato top killers).	lb.	35,580	4,613	42,916	8,427
Mineral oils for dormant or foliage					
spraying	Imp. gal.	151,148	57,364	151,887	56,315
Other agricultural dusts and					
sprays, but excluding hydrated					
lime .....	...	...	35,532	...	139,447
Total dusts and sprays .....	...	...	5,203,965	...	6,291,721
<u>Livestock treatments</u> (including					
poultry)-					
<u>Wormers</u> -					
Coccidiosis treatments:					
Medicated feeds	ton	3,365	424,442	4,399	560,274
Other	lb.	49,130	88,252	174,412	198,681
Phenothiazene	lb.	30,544	62,229	69,914	85,452
Other wormers .....	...	...	99,373	...	138,140
<u>Other livestock treatments</u> -					
Blackhead treatments .....	...	...	27,638	...	45,106
Animal insect powders (except					
next item)	lb.	185,820	56,770	226,316	70,579
Warble powders and washes	lb.	128,272	64,786	187,263	82,555
Barn sprays for residual effects.	Imp. gal.	57,495	138,268	57,555	128,037
Livestock sprays	Imp. gal.	105,189	195,035	130,958	214,205
Other livestock treatments .....	...	...	100,591	...	63,781
Total livestock treatments .	...	...	1,257,384	...	1,586,810
<u>Herbicides</u> -					
Arsenicals	Imp. gal.	...	(9)	1,829	2,786
Borates, chlorates and borate-					
chlorate mixtures	lb.	...	(5)	...	(5)
Cyanamides and cyanates	lb.	...	(5)	...	(5)
Dinitros	lb.	...	(9)	147,517	37,233
I.P.C.	lb.	...	(9)	1,397	2,021
Mineral oils	Imp. gal.	...	(5)	...	(5)
P.M.A.	lb.(of acid)	...	(9)	210	4,065
T.C.A.	lb.(of acid)	...	(9)	136,467	55,884
M.C.P. (6)	lb.(of acid)	...	(9)	28,798	47,652
2,4,5-T formulations (6):					
Ester	lb.(of acid)	...	(9)	47,985	73,381
Amine	lb.(of acid)	...	(9)	1,381	2,696
2,4-D formulations (6):					
Ester dust	lb.(of acid)	361,478	532,775	160,229	230,204
Ester liquid	lb.(of acid)	2,570,940	3,130,188	2,572,926	2,717,067
Amine liquid	lb.(of acid)	309,335	355,749	294,159	261,706
Other 2,4-D formulations .	...	...	5,557	...	7,406

See footnotes at end of table.

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1952 and 1953 (Continued)

Commodity	Unit of measure	1952		1953	
		Quantity	Value	Quantity	Value
			\$		\$
(A) Agriculture (concluded)					
Herbicides (concluded) -					
2,4-D, 2,4,5-T mixtures (value only)	...	...	418,287	...	505,244
2,4-D portion of mixture	lb.(of acid)	...	(9)	158,015	...
2,4,5-T portion of mixture	lb.(of acid)	...	(9)	158,015	...
Other herbicides	...	...	1,804,263	...	1,752,221
Total herbicides	...	...	6,246,819	...	5,699,566
(B) Household and Industrial					
Insecticides					
Fumigants (excluding soil fumigants) -					
Carbon tetrachloride	Imp. gal.	1,085	4,042	2,258	5,167
Ethylene dichloride	...	...	(7)	...	(7)
Naphthalene	lb.	1,437,166	258,877	1,062,423	135,205
Paradichlorobenzene	lb.	1,824,792	742,381	2,253,946	1,060,240
Other fumigants	...	...	152,558	...	163,157
Powders and dusts -					
DDT insect powders	lb.	12,618	6,242	11,200	4,040
DDT insect powders with pyrethrum	lb.	25,686	15,570	29,240	15,434
Insect powders (without DDT)	lb.	6,791	4,451	23,463	11,421
Insect smokes	...	...	...	...	10,794
Lindane (for vaporizers)	lb.	2,580	25,367	12,697	192,758
Lindane vaporizers:					
Continuous type	No.	...	(9)	12,323	126,455
Non-continuous type	No.	...	(9)	94,850	82,409
Chlordane insect powders	lb.	...	(8)	3,800	2,900
Other powders and dusts	...	...	23,895	...	8,899
Sprays and aerosol bombs -					
Space or air sprays without DDT	Imp. gal.	18,099	63,849	22,928	102,082
Space or air sprays with DDT	Imp. gal.	47,638	174,320	81,567	243,901
Residual sprays with 5% DDT	Imp. gal.	74,716	190,526	68,401	151,042
Residual sprays with other than DDT	Imp. gal.	49,512	161,294	44,023	169,432
Mill and warehouse sprays, e.g., of pyrethrum type, etc.	Imp. gal.	9,949	53,230	30,005	166,405
Self-propelled insecticides	No.	882,908	784,593	1,193,078	847,518
Mosquito and fly repellents -					
Citronella type	...	...	968	...	218
Dimethyl phthalate, indalone, ethyl hexandiol, dimethyl carbate, etc..	...	...	184,300	...	171,396
Other household and industrial insecticides	...	...	186,670	...	123,779
Total insecticides	...	...	3,033,133	...	3,794,652

See footnotes at end of table.

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1952 and 1953 (Concluded)

Commodity	Unit of measure	1952		1953	
		Quantity	Value	Quantity	Value
			\$		\$
(C) <u>Rodenticides</u>					
Mouse and rat poisons:					
Warfarin type - 0.5% .....	... )	...	288,104	15,126	49,161
0.025% .....	... )	...	...	255,595	127,668
Other mouse and rat poisons	lb.	113,494	129,044	97,623	110,088
Gopher poisons	lb.	47,838	40,279	22,661	19,973
Other rodenticides (mole killers, etc.) .....	...	...	1,319	...	7,260
Total rodenticides .....	...	...	458,746	...	314,150
GRAND TOTAL .....	...	...	16,200,047	...	17,686,899

- (1) Included with "Other botanicals."
- (2) The aldrin under this heading has reference to a 60% grade which was used in formulating the bulk of the total reported.
- (3) Included with "Other synthetic organics."
- (4) Included with "Other seed treatments."
- (5) Included with "Other herbicides."
- (6) 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.
- (7) Included with "Other fumigants."
- (8) Included with "Other powders and dusts."
- (9) Not classified separately.

Table 2 - Canadian Exports of Pest Control Products by Registrants, 1952 and 1953

Commodity	1952	1953
	Value	Value
	\$	\$
Agricultural dusts and sprays	325,996	4,743
Livestock treatments .....	...	...
Herbicides	742	9,238
Household and industrial insecticides	269
Rodenticides
Total exports	326,738	14,250

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