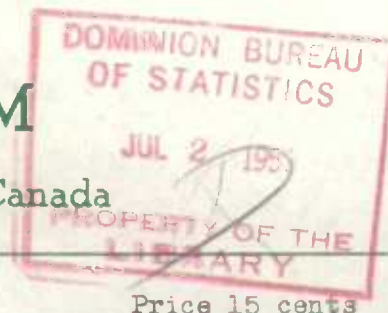


46-212

D.B.S. MEMORANDUM

Dominion Bureau of Statistics, Ottawa, Canada



SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS, 1952

Sales of pest control products in 1952 as reported by Canadian registrants were valued at \$16,002,047, an increase of 1.3 per cent over the 1951 total of \$15,801,002. A drop in weedicide sales amounting to 12.7 per cent slowed up but did not completely reverse a 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; and 1951, \$15,801,002.

The other four groups covered in this survey reported an increase in sales in 1952 as compared with 1951. Sales of rodenticides at \$458,746 once more showed the largest gain, advancing 43.8 per cent over the total for the previous year. Agricultural dusts and sprays after showing a decline in 1951 rallied in 1952 to register a total of \$5,203,965, a good gain of 15.6 per cent. Moderate increases were posted by livestock treatments at \$1,257,384, up 6.3 per cent and household and industrial insecticides at \$3,033,133, up 5.6 per cent. Weedicide sales were definitely off as compared with the previous year, the total of \$6,048,819 being 12.7 per cent lower than in 1951.

The present report is the sixth issued by the Bureau in conjunction with the Department of Agriculture. It gives final statistics for 1952 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 1951 and data on exports.

About 407 out of a total of 449 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.

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1951 and 1952

Commodity	Unit of measure	1951		1952	
		Quantity	Value	Quantity	Value

(A) Agriculture

Adjuvants -

Soaps, blood albumen, casein,					
oil spreaders, etc. ....	...	...	5,480	...	5,103

Crop and Seed Treatment

Agricultural dusts and sprays:

For use on field, garden, green-house and orchard crops; on seeds; but not preparations for use on livestock, and not weedicides:

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1951 and 1952 (Continued)

Commodity	Unit of measure	1951		1952	
		Quantity	Value	Quantity	Value
			\$		\$
(A) Agriculture (Continued)					
Crop and Seed Treatment (Continued) -					
Agricultural dusts and sprays: (Continued)					
Arsenicals -					
Arsenate of lead	lb.	1,333,657	382,543	920,138	271,831
Calcium arsenate	lb.	596,480	63,895	469,665	51,600
2% arsenic dusts (without copper)	lb.	5,945,220	216,575	4,354,990	176,262
Paris green	lb.	123,396	53,264	68,996	32,930
Fluorides -					
Cryolite	lb.	4,050	408	2,440	242
Sodium fluosilicate	lb.	...	...	...	...
Botanicals -					
Rotenone dusts (containing not more than 1% rotenone)	lb.	378,824	87,579	514,803	124,913
Ryania dusts .....	...	...	(1)	...	(1)
Other botanicals .....	...	...	12,320	...	18,287
Synthetic Organics -					
Aldrin:					
Dusts	lb.(of aldrin)	14,010	16,518	142	242
Emulsions and wettable powders	lb.(of aldrin)	36,417 (2)	90,828	9,323 (2)	29,820
B.H.C.: 6% gamma and under	lb.	265,909	34,573	67,330	14,554
Over 6% gamma (except B.H.C. as lindane)	lb.	600	202	3,260	1,359
B.H.C. (as lindane): Emulsions	Imp.gal.)	...	126,722	1,799	14,381
Wettable powders	lb.)	...	...	40,964	156,454
Chlordane: Dusts	lb.	48,621	5,516	68,786	9,490
Emulsions	Imp.gal.	2,892	22,903	1,591	16,483
Wettable powders	lb.	4,854	3,068	2,344	1,647
Dinitro compounds (phenol and cresol)	lb.	44,387	26,654	114,841	27,529
DDT: Dusts	lb.	1,942,084	164,664	2,028,403	169,956
25% emulsifiable solutions	Imp.gal.	34,542	152,627	41,739	144,704
50% wettable powders	lb.	1,244,378	465,210	1,052,585	387,975
Methoxychlor .....	...	...	(3)	...	(3)
Parathion: 15% wettable powders	lb.	262,825	164,013	198,183	117,157
All other forms .....	...	...	8,085	...	9,329
T.E.P.P. and H.E.T.P. (all forms) .....	...	...	19,970	...	18,135
T.D.E. or D.D.D.	lb.(T.D.E.)	...	...	16,843	10,847
Toxaphene emulsions .....	...	...	(3)	...	(3)
Soil fumigants	lb.	24,614	7,646	14,961	3,777
Other synthetic organics .....	...	...	73,589	...	65,741

(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".

Commodity	Unit of measure	1951		1952	
		Quantity	Value \$	Quantity	Value \$
(A) Agriculture (Continued)					
Agricultural dusts and sprays (Concluded)					
Copper Compounds (with and without an insecticide) -					
Copper sulphate	lb.	4,614,442	488,788	3,727,650	449,331
Copper lime dusts	lb.	126,925	12,261	117,600	12,809
Fixed copper spray materials	lb.	739,598	175,688	734,086	165,841
Fixed copper spray materials with DDT	lb.	123,490	42,709	666,801	95,950
Fixed copper dusts with DDT or arsenic or both	lb.	1,855,826	218,870	2,153,673	245,646
Copper compounds with other insecticides	lb.	620,115	56,977	49,166	6,356
Dry Bordeaux mixture	lb.	60,336	12,030	143,395	33,435
Other copper compounds .....	...	...	4,433	...	16,460
Other than Copper Fungicides -					
Dry lime-sulphur	lb.	35,909	11,114	22,116	9,517
Liquid lime-sulphur	Imp. gal.	258,542	53,985	427,213	112,161
Dusting sulphurs: without insecticide	lb.)	227,663	15,603	61,254	3,342
with insecticide ...	lb.)			10,710	953
Wettable sulphurs: without insecticide	lb.)	2,778,241	250,959	2,205,894	190,313
with insecticide ..	lb.)			315,531	45,465
Dithiocarbamates:					
Without an insecticide	lb.	262,770	99,647	1,013,153	256,877
With an insecticide	lb.	387,450	45,917	768,108	95,964
Mercurial fungicides (except seed treatments) ..	lb.	Not classified separately		4,311	6,937
Other fungicides (not seed treatments)	lb.	88,804	58,808	892,157	163,008
Seed Treatments -					
Organic mercurials	lb.	572,746	322,381	990,094	682,063
Copper compounds	lb.	...	(4)	Not classified	
Formaldehyde	lb.	...	(4)	separately	
Hexachlorobenzene .....	...	...	(4)	155,630	92,702
Thiocarbamates .....	...	...	(4)	...	(4)
Other seed treatments .....	...	...	212,691	...	419,108
Nicotine -					
Nicotine sulphate	lb.	70,168	87,052	80,252	100,363
Other nicotine preparations	lb.	38,207	16,817	29,794	15,526
Miscellaneous -					
Zinc compounds, including zinc "safeners," e.g., zinc sulphate	lb.	137,096	23,674	46,510	5,581
Vine killers (potato top killers) ...	lb.	23,230	4,472	35,580	4,613
Mineral oils for dormant or foliage spraying	Imp. gal.	112,205	34,083	151,148	57,364
Other agricultural dusts and sprays but excluding hydrated lime .....	...	...	47,631	...	35,532
Total Dusts and Sprays .....	...	...	4,501,424	...	5,203,965

(4) Included with "other seed treatments"

Pest Control Products

- 4 -

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1951 and 1952 (Continued)

Commodity	Unit of measure	1951		1952	
		Quantity	Value	Quantity	Value
			\$		\$
(A) <u>Agriculture</u> (Concluded)					
<u>Livestock Treatments</u> (including poultry) -					
<u>Wormers</u> -					
Coccidiosis treatments:					
Medicated feeds	ton	1,796	214,792	3,365	424,442
Other	lb.	163,770	230,724	49,130	88,252
Phenothiazene	lb.	59,931	93,169	30,544	62,229
Other wormers .....	...	...	137,350	...	99,373
<u>Other Livestock Treatments</u> -					
Blackhead treatments .....	...	Not available		...	27,638
Animal insect powders (except next item)	lb.	273,631	60,544	185,820	56,770
Warble powders and washes	lb.	113,746	49,264	128,272	64,786
Barn sprays for residual effects	Imp.gal.	49,964	105,070	57,495	138,268
Livestock sprays	Imp.gal.	119,412	169,503	105,189	195,035
Other livestock treatments .....	...	...	121,869	...	100,591
Total Livestock Treatments .....	...	...	1,182,285	...	1,257,384
<u>Weedicides</u> -					
Mineral oils	Imp.gal.	...	(5)	...	(5)
Liquid non-selective weedicides (mixtures of 2, 4-D, 2,4,5-T, oil, etc., but excluding chlorate solutions)	Imp.gal.	27,787	188,100	61,657	418,287
Dry non-selective weedicides (e.g., borax, chlorates, etc.)	lb.	...	(5)	...	(5)
Selective weedicides (not 2,4-D) ..	...	...	(5)	...	21,526
2,4-D formulations (6):					
Dusts	lb.(of acid)	289,331	715,505	291,478	497,775
Solutions - Amine	lb.(of acid)	317,196	391,912	299,335	342,749
Ester	lb.(of acid)	3,075,393	3,874,346	2,450,940	2,980,188
Sodium salt	lb.(of acid)	3,060	11,438	1,815	5,557
Other weedicides .....	...	...	1,744,859	...	1,782,737
Total Weedicides .....	...	...	6,926,160	...	6,048,819
(B) <u>Household and Industrial Insecticides</u>					
<u>Fumigants</u> (excluding soil fumigants) -					
Carbon tetrachloride	Imp.gal.	1,218	2,669	1,085	4,042
Ethylene dichloride	Imp.gal.	...	(7)	...	(7)
Naphthalene	lb.	623,534	123,986	1,437,166	258,877
Paradichlorobenzene	lb.	2,459,096	1,048,202	1,824,792	742,381
Other fumigants .....	...	...	116,224	...	152,558

(5) Included with "other weedicides".

(6) Firms reporting 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".

Pest Control Products

- 5 -

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1951 and 1952 (Concluded)

Commodity	Unit of measure	1951		1952	
		Quantity	Value	Quantity	Value
			\$		\$
(B) <u>Household and Industrial Insecticides</u>					
(Concluded)					
<u>Powders and Dusts -</u>					
10% DDT insect powders	lb.	18,644	8,990	12,618	6,242
10% DDT insect powders with pyrethrum	lb.	14,340	11,507	25,686	15,570
Insect powders (without DDT)	lb.	Not classified		6,791	4,451
Lindane (for vaporizers)	lb.	separately		2,580	25,367
Sodium fluoride powders	lb.	33,904	21,830	Not classified	
Pyrethrum powders	lb.	8,244	3,537	separately (8)	
Thiocyanate powders	lb.	223	510		
Chlordane insect powders	lb.	4,185	1,348		
Other powders and dusts .....	...	...	16,822	...	23,895
<u>Sprays and Aerosol Bombs -</u>					
Space or air sprays without DDT	Imp.gal.	19,187	67,138	18,099	63,849
Space or air sprays with DDT	Imp.gal.	55,581	165,836	47,638	174,320
Residual sprays with 5% DDT	Imp.gal.	99,903	184,765	74,716	190,526
Residual sprays with other than DDT .	Imp.gal.	48,556	152,455	49,512	161,294
Mill and warehouse sprays, e.g., of pyrethrum type, etc.	Imp.gal.	15,110	65,928	9,949	53,230
Self-propelled insecticides	number	452,912	398,699	882,908	784,593
<u>Mosquito and Fly Repellents -</u>					
Citronella type .....	...	...	1,644	...	968
Dimethyl phthalate, indalone, ethyl hexandiol, dimethyl carbate, etc. ..	...	...	78,618	...	184,300
Other household and industrial in- secticides .....	...	...	401,358	...	186,670
Total Insecticides .....	...	...	2,872,066	...	3,033,133
(C) <u>Rodenticides</u>					
Mouse and rat poisons:					
Warfarin type - 0.5%	lb.	...	95,154	99,480	155,783
0.025%	lb.	...	67,252	274,910	132,321
Other mouse and rat poisons	lb.	...	119,710	113,494	129,044
Gopher poisons	lb.	...	30,552	47,838	40,279
Other rodenticides (mole killers, etc.)	...	...	6,399	...	1,319
Total Rodenticides .....	...	...	319,067	...	458,746
GRAND TOTAL .....	...	...	15,801,002	...	16,002,047

Table 2 - Canadian Exports of Pest Control Products by Registrants, 1951 and 1952

Commodity	1951	1952
	Value	Value
	\$	\$
Agricultural dusts and sprays	249,803	325,996
Livestock treatments .....	...	...
Weedicides .....	...	742
Household and industrial insecticides ...	...	...
Disinfectants .....	...	...
Rodenticides
Total Exports	249,803	326,738

(8) Included with "other powders and dusts".

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