

46-212

D.B.S. MEMORANDUM

Dominion Bureau of Statistics, Ottawa, Canada

Price 15 cents

SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS, 1951

Sales of pest control products in 1951 as reported by Canadian registrants were valued at \$15,801,002, a gain of 2.4 per cent over the 1950 total of \$15,427,717; however, the total shown for 1951 is not exactly comparable with previous years, as sales of disinfectants were not covered. Regulations requiring disinfectants to be registered under the Pest Control Act were lifted in 1951 and for this line will no longer be available.

Four of the five groups covered in this survey reported a substantial increase in sales in 1951 as compared with 1950. Sales of rodenticides at \$319,067 showed the largest gain, advancing 91 per cent over the total for the previous year. The other groups registering gains were livestock treatments at \$1,182,285, up 89.7 per cent; household and industrial insecticides at \$2,872,066, up 22.6 per cent, and weedicides at \$6,926,160, up 20.2 per cent. Agricultural dusts and sprays was the only group showing a decline, total sales at \$4,501,424, being 3.4 per cent lower than in the previous year.

The present report is the fifth issued by the Bureau in conjunction with the Department of Agriculture. It gives final statistics for 1951 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 1950 and data on exports.

About 410 out of a total of 457 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, 1950 and 1951

Commodity	Unit of measure	1950		1951	
		Quantity	Value	Quantity	Value
(A) <u>Agriculture</u>					
<u>Crop and Seed Treatment</u>					
<u>Agricultural dusts and sprays:</u>					
For use on field, garden, greenhouse and orchard crops; on seeds; but <u>not</u> preparations for use on livestock, and <u>not</u> weedicides:					
<u>Adjuvants -</u>					
Soaps, blood albumen, casein, oil spreaders, etc.					
	2,853	...	5,480

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1950 and 1951 (Continued)

Commodity	Unit of measure	1950		1951	
		Quantity	Value	Quantity	Value
(A) <u>Agriculture</u> (Continued)					
<u>Crop and Seed Treatment</u> (Continued) -					
<u>Agricultural dusts and sprays:</u>					
(Con					
<u>Arsenicals</u> -					
Arsenate of lead	lb.	1,331,240	328,171	1,333,657	382,543
Calcium arsenate	lb.	752,727	78,259	596,480	63,895
2% arsenic dusts (without copper)	lb.	5,343,120	195,538	5,945,220	216,575
Paris green	lb.	150,901	61,672	123,396	53,264
<u>Fluorides</u> -					
Cryolite	lb.	22,360	.301	4,050	408
Sodium fluosilicate	lb.	3,500	525	...	...
<u>Botanicals</u> -					
Rotenone dusts (containing not more than 1% rotenone)	lb.	674,087	136,370	378,824	87,579
Ryania dusts .....	...	...	(1)	...	(1)
Other botanicals .....	...	...	15,278	...	12,320
<u>Synthetic Organics</u> -					
Aldrin: Dusts	lb.(of aldrin)	7,121	25,636	14,010	16,518
Emulsions (2)	lb.(of aldrin)	339,316	508,248	36,417	90,328
B.H.C.: 6% gamma and under	lb.	212,536	33,370	265,909	34,573
Over 6% gamma (except B.H.C. as lindane) ...	lb.	8,119	30,513	600	202
B.H.C. (as lindane, emulsions and wetable powders) ....	...	...	11,772	...	126,722
Chlordane: Dusts	lb.	32,241	6,897	48,621	5,516
Emulsions	Imp. gal.	9,189	92,733	2,892	22,903
Wetable powders ...	lb.	2,492	2,145	4,854	3,068
Dinitro compounds (phenol and cresol)	lb.	70,422	42,662	44,387	26,654
DDT: Dusts	lb.	2,344,093	174,173	1,942,084	164,664
25% emulsifiable solutions.	Imp. gal.	65,609	196,528	34,542	152,627
50% wettable powders	lb.	1,377,100	409,581	1,244,378	465,210
Methoxychlor .....	...	...	(3)	...	(3)
Parathion: Parathion bombs	number	1,232	7,225	1,389	8,085
15% wettable powders.	lb.	163,658	105,205	262,825	164,013
T.E.P.P. and H.E.T.P. (bombs, dusts and sprays) ....	...	...	17,427	...	19,970
T.D.E. or D.D.D. ....	...	...	(3)	...	...
Toxaphene emulsions .....	...	...	(3)	...	(3)
Soil fumigants	lb.	22,931	7,428	24,614	7,646
Other synthetic organics .....	...	...	95,906	...	73,589

(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."

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1950 and 1951 (Continued)

Commodity	Unit of measure	1950		1951	
		Quantity	Value	Quantity	Value
			\$		\$
(A) Agriculture (Continued)					
Agricultural dusts and sprays (Concluded)					
Copper Compounds (with and without an insecticide) -					
Copper sulphate	lb.	4,872,906	383,425	4,614,442	488,788
Copper sulphate with arsenic	lb.	...	(4)	...	(4)
Monohydrated copper sulphate	lb.	...	(4)	22,200	4,415
Copper lime dusts	lb.	230,675	17,095	126,925	12,261
Fixed copper spray materials	lb.	714,100	146,515	739,598	175,688
Fixed copper spray materials with DDT	lb.	205,400	64,187	123,490	42,709
Fixed copper dusts with DDT or arsenic or both	lb.	3,287,832	323,994	1,855,826	218,870
Copper compounds with other insecticides	lb.	10,713	3,745	620,115	56,977
Dry Bordeaux mixture	lb.	73,801	12,904	60,336	12,030
Other than Copper Fungicides -					
Dry lime-sulphur	lb.	87,369	15,192	35,909	11,114
Liquid lime-sulphur	Imp.gal.	355,490	75,175	258,542	53,985
Dusting sulphurs	lb.	153,601	10,570	227,663	15,603
Wettable sulphurs	lb.	2,705,506	216,820	2,778,241	250,959
Dithiocarbamates:					
Without an insecticide	lb.)	524,327	108,353	262,770	99,647
With an insecticide	lb.)	...	...	387,450	45,917
Other fungicides	lb.	19,160	11,380	88,804	58,808
Seed Treatments -					
Organic mercurials	lb.	506,824	285,071	572,746	322,381
Copper compounds	lb.	...	(5)	...	(5)
Formaldehyde	lb.	...	(5)	...	(5)
Hexachlorobenzene .....	...	...	(5)	...	(5)
Thiocarbamates .....	...	...	(5)	...	(5)
Other seed treatments .....	...	...	115,529	...	212,691
Nicotine -					
Nicotine sulphate	lb.	55,532	86,339	70,168	87,052
Nicotine dusts and fixed nicotines ..	lb.	38,944	14,452	38,207	16,817
Miscellaneous -					
Zinc compounds, including zinc "safeners," e.g., zinc sulphate ...	lb.	176,438	23,933	137,096	23,674
Vine killers (potato top killers) ..	lb.	43,485	14,219	23,230	4,472
Hormones (for delaying fruit drop) ..	fl.oz.	9,850	487	14,400	744
Mineral oils for dormant or foliage spraying	Imp.gal.	48,760	22,705	112,205	34,083
Other agricultural dusts and sprays but excluding hydrated lime .....	...	...	119,910	...	46,887
Total Dusts and Sprays .....	...	...	4,661,416	...	4,501,424

(4) Included with "other agricultural dusts and sprays."

(5) Included with "other seed treatments."

Pest Control Products

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Table 1 - Sales of Pest Control Products by Canadian Registrants, 1950 and 1951 (Continued)

Commodity	Unit of measure	1950		1951	
		Quantity	Value	Quantity	Value
			\$		\$
(A) <u>Agriculture (Concluded)</u>					
<u>Livestock Treatments (including poultry) -</u>					
<u>Wormers -</u>					
Coccidiosis treatments:					
Medicated feeds ..	ton	54	5,070	1,796	214,792
Other	lb.	85,396	87,352	163,770	230,724
Phenothiazene	lb.	46,085	68,170	59,931	93,169
Other wormers .....	...	...	109,971	...	137,350
<u>Other Livestock Treatments -</u>					
Anti-insect powders (except next item)	lb.	235,167	44,889	273,631	60,544
Warble powders and washes	lb.	100,557	43,819	113,746	49,264
Barn sprays for residual effects	Imp.gal.	95,478	120,860	49,964	105,070
Livestock sprays	Imp.gal.	97,930	131,820	119,412	169,503
Other livestock treatments ...	...	...	11,675	...	121,869
Total Livestock Treatments .	...	...	623,626	...	1,182,285
<u>Weedicides -</u>					
Chlorates .....	...	...	(6)	...	(6)
Borax .....	...	...	(6)	...	(6)
DN compounds .....	...	...	(6)	...	(6)
Mineral oils	Imp.gal.	236,909	67,398	...	(6)
Non-selective weedicides (mixtures of 2,4-D, 2,4,5-T, oil, etc.) ..	Imp.gal.	9,636	66,080	27,787	188,100
2,4-D formulations (7):					
Dusts	lb.(of acid)	185,936	356,872	289,331	715,505
Solutions - Amine	lb.(of acid)	800,904	697,581	317,196	391,912
Ester	lb.(of acid)	2,818,909	3,619,931	3,075,393	3,874,346
Sodium salt ...	lb.(of acid)	7,883	10,844	3,060	11,438
Other weedicides .....	...	...	943,963	...	1,744,859
Total Weedicides .....	...	...	5,762,669	...	6,926,160

(B) Household and Industrial Insecticides

Fumigants (excluding soil fumigants) -

Cyanide compounds .....	...	...	(8)	...	(8)
Chloropicrin .....	...	...	(8)	...	(8)
Carbon tetrachloride	Imp.gal.	...	(8)	1,218	2,669
Ethylene dichloride	Imp.gal.	2,045	5,234	...	(8)
Methyl bromide .....	...	...	(8)	...	(8)
Naphthalene	lb.	268,005	62,848	623,534	123,986
Paradichlorobenzene	lb.	2,575,358	995,927	2,459,096	1,048,202
Other fumigants .....	...	...	130,745	...	116,224

(6) Included with "other weedicides."

(7) 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.

(8) Included with "other fumigants."

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1950 and 1951 (Concluded)

Commodity	Unit of measure	1950		1951	
		Quantity	Value	Quantity	Value
			\$		\$
(E) Household and Industrial Insecticides					
(Concluded)					
Powders and Dusts -					
10% DDT insect powders	lb.	13,040	6,790	18,644	8,990
10% DDT insect powders with pyrethrum.	lb.	17,687	14,669	14,340	11,507
Sodium fluoride powders	lb.	76,252	21,093	33,904	21,830
Pyrethrum powders	lb.	1,450	2,112	8,244	3,537
Thiocyanate powders	lb.	272	308	223	510
Chlordane insect powders	lb.	9,273	1,432	4,185	1,348
Other powders and dusts .....	...	...	4,962	...	16,822
Sprays and Aerosol Bombs -					
Space or air sprays without DDT	Imp.gal.	46,095	113,967	19,187	67,138
Space or air sprays with DDT	Imp.gal.	28,915	78,276	55,581	165,836
Residual sprays with 5% DDT	Imp.gal.	130,228	267,628	99,903	184,765
Residual sprays with other than DDT .	Imp.gal.	52,679	165,739	48,556	152,455
Mill and warehouse sprays, e.g., of pyrethrum type, etc.	Imp.gal.	55,410	96,807	15,110	65,928
Aerosol bombs (insecticide only)	number	212,530	186,297	452,912	398,699
Mosquito and Fly Repellents -					
Citronella type	lb.	1,581	2,429	...	1,644
Dimethyl phthalate, indalone, ethyl hexandiol, dimethyl carbate, etc. ...	lb.	46,896	91,915	...	78,618
Other household and industrial insecticides .....	...	...	93,419	...	401,358
Total Insecticides .....	...	...	2,342,597	...	2,872,066
(C) Disinfectants					
Chlorine .....	...	...	1,028,039		
Pine oil	Imp.gal.	20,015	49,897		
Quaternary ammonium and similar cationic compounds .....	...	...	84,958	(9)	
Coal tar disinfectants	Imp.gal.	146,107	451,642		
Other types, including formaldehyde solutions and others not reported above .....	...	...	255,440		
Total Disinfectants .....	...	...	1,869,976		
(D) Rodenticides					
Mouse and rat poisons:					
Warfarin type - 0.5% .....	...)			...	95,154
0.025% .....	...)	...	100,095	...	67,252
Other mouse and rat poisons .....	...)			...	119,710
Gopher poisons	lb.	120,534	65,455	...	30,552
Other rodenticides (mole killers, etc.).	...	...	1,883	...	6,399
Total Rodenticides .....	...	...	167,433	...	319,067
GRAND TOTAL .....	...	...	15,427,717	...	15,801,002 ⁽¹⁰⁾

(9) Regulations requiring disinfectants to be registered under the Pest Control Act were lifted in 1951; accordingly, data for these lines will no longer be available.

(10) Excluding "disinfectants" - see note (9).



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Table 2 - Canadian Exports of Pest Control Products by Registrants, 1950 and 1951

Commodity	1950	1951
	Value	Value
	\$	\$
Agricultural dusts and sprays	184,884	249,803
Livestock treatments	75	...
Weedicides .....	...	...
Household and industrial insecticides .	...	...
Disinfectants .....	...	...
Rodenticides	86	...
Total Exports	185,045	249,803