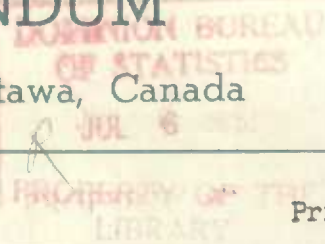


46-212

D.B.S. MEMORANDUM

Dominion Bureau of Statistics, Ottawa, Canada



Price 25 cents

SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS, 1950

Sales of pest control products in 1950 as reported by Canadian registrants were valued at \$15,427,717, a gain of 8.5 per cent over the 1949 total of \$14,202,290.

Three of the six groups covered in this survey reported a substantial increase in sales in 1950 as compared with 1949. Sales of household and industrial insecticides at \$2,342,597 showed the largest gain, advancing 28.4 per cent over the total for the previous year. The other groups registering gains were weedicides at \$5,762,669, up 23.2 per cent and livestock treatments at \$623,626, up 16.5 per cent. Totals and percentage losses for those groups showing a decline in sales in 1950 were as follows: disinfectants at \$1,869,976, down 9.2 per cent; agricultural dusts and sprays at \$4,661,416, down 5.8 per cent; and rodenticides at \$167,433, down 5.5 per cent.

The present report is the fourth issued by the Bureau in conjunction with the Department of Agriculture. It gives final statistics for 1950 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 1949 and data on exports.

About 468 out of a total of 578 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, 1949 and 1950

Commodity	Unit of measure	1949		1950	
		Quantity	Value	Quantity	Value
			\$		\$

(A) AgricultureCrop and Seed Treatment -

Agricultural dusts and sprays:
for use on field, garden,
greenhouse and orchard crops;
on seeds; but not preparations
for use on livestock, and not
weedicides:

Adjuvants -

Soaps, blood albumen, casein,
oil spreaders, etc.

...

...

7,735

...

2,853

Note: This report was prepared in the Mining, Metallurgical and Chemical Section.

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1949 and 1950 (Continued)

Commodity	Unit of measure	1949		1950	
		Quantity	Value	Quantity	Value
			\$		\$
(A) Agriculture (Continued)					
Crop and Seed Treatment (Continued) -					
Agricultural dusts and sprays:					
(Concluded)					
Arsenicals -					
Arsenate of lead	lb.	2,401,943	614,814	1,331,240	328,171
Calcium arsenate	lb.	1,865,920	165,443	752,727	78,259
2% arsenic dusts (without copper)	lb.	5,660,760	186,884	5,343,120	195,538
Paris green	lb.	146,394	53,687	150,901	61,672
Fluorides -					
Cryolite	lb.	35,162	4,924	22,360	3,301
Sodium fluosilicate	lb.	...	...	3,500	525
Botanicals -					
Rotenone dusts (containing not more than 1% rotenone)	lb.	684,512	130,299	674,087	136,370
Pyrethrum dusts (containing not more than 1% pyrethrins)	lb.	(*)		...	...
Ryania dusts	lb.	...	...	(*)	...
Other botanicals, including items marked (*) which were reported by less than 3 firms .....	...	...	17,218	...	15,278
Synthetic Organics -					
Aldrin: Dusts	lb.(of aldrin)	(a)		7,121	25,636
Emulsions (x)	lb.(of aldrin)	(a)		339,316	508,248
B.H.C.: 6% gamma and under	lb.	207,580	24,106	212,536	33,370
Over 6% gamma (except B.H.C. as lindane)	lb.	(*)		8,119	30,513
B.H.C. (as lindane, emulsions and wettable powders) .....	...	(a)		...	11,772
Chlordane: Dusts	lb.	96,103	15,665	32,241	6,897
Emulsions	Imp.gal.	51,469	482,992	9,189	92,733
Wettable powders	lb.	3,857	3,147	2,492	2,145
Dinitro compounds (phenol and cresol)	lb.	68,465	16,565	70,422	42,662
DDT: Dusts	lb.	2,142,292	152,681	2,344,093	174,173
25% emulsifiable solutions .	Imp.gal.	39,696	147,221	65,609	196,528
50% wettable powders	lb.	1,275,088	426,687	1,377,100	409,581
Methoxychlor	lb.	(a)		(*)	
Parathion: Parathion bombs	number	(*)		1,232	7,225
15% wettable powder .	lb.	118,035	99,991	163,658	105,205
T.E.P.P. and H.E.T.P. (bombs, dusts and sprays) ..	...	...	20,075	...	17,427
T.D.E. or D.D.D.	lb.	(a)		(*)	
Toxaphene emulsions	Imp.gal.	(*)		(*)	
Soil fumigants	lb.	16,099	4,945	22,931	7,428
Other synthetic organics, including items marked (*) which were reported by less than 3 firms .....	...	...	101,855	...	95,906

(x) The aldrin under this heading has reference to a 60% grade which was used in formulating the bulk of the total reported.

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1949 and 1950 (Continued)

Commodity	Unit of measure	1 9 4 9		1 9 5 0	
		Quantity	Value	Quantity	Value
			\$		\$
(A) Agriculture (Continued)					
Crop and Seed Treatment (Concluded) -					
Copper Compounds (with and without an insecticide) -					
Copper sulphate	lb.	4,316,579	348,728	4,872,906	383,425
Copper sulphate with arsenic ...	lb.	33,730	3,021	(*)	
Monohydrated copper sulphate ...	lb.	121,502	27,525	(*)	
Copper lime dusts	lb.	362,837	23,654	230,675	17,095
Fixed copper spray materials ...	lb.	1,362,419	228,110	714,100	146,515
Fixed copper spray materials with DDT	lb.	1,430,807	193,640	205,400	64,187
Fixed copper dusts with DDT or arsenic or both	lb.	2,180,208	218,576	3,287,832	323,994
Copper compounds with other insecticides	lb.	700	62	10,713	3,745
Dry Bordeaux mixture	lb.	105,185	16,666	73,801	12,904
Other than Copper Fungicides -					
Dry lime-sulphur	lb.	14,208	4,177	87,369	15,192
Liquid lime-sulphur	Imp.gal.	569,712	115,610	355,490	75,175
Dusting sulphurs	lb.	122,477	8,660	153,601	10,570
Wettable sulphurs	lb.	2,666,956	213,247	2,705,506	216,820
Dithiocarbamates (with or without an insecticide)	lb.	804,877	218,681	524,327	108,353
Other fungicides	lb.	2,779	4,644	19,160	11,380
Seed Treatments -					
Organic mercurials	lb.	548,400	307,386	506,824	285,071
Copper compounds	lb.	5,725	973	(*)	
Formaldehyde	lb.	272,739	50,581	(*)	
Hexachlorobenzene	lb.	(a)		(*)	
Thiocarbamates	lb.	(*)		(*)	
Other seed treatments, including items marked (*) which were reported by less than 3 firms ..	...	...	33,714	...	115,529
Nicotine -					
Nicotine sulphate	lb.	89,021	103,361	55,532	86,339
Nicotine dusts and fixed nicotines	lb.	64,470	17,147	38,944	14,452
Miscellaneous -					
Zinc compounds, including zinc "safeners," e.g., zinc sulphate.	lb.	208,198	31,492	176,438	23,933
Paradichlorobenzene	lb.	3,500	1,360	...	...
Vine killers (potato top killers)	lb.	41,757	9,786	43,485	14,219
Hormones (for delaying fruit drop)	fl.oz.	12,705	680	9,850	487
Mineral oils for dormant or foliage spraying	Imp.gal.	164,676	69,077	48,760	22,705
Other agricultural dusts and sprays, including copper com- pounds marked (*) which were reported by less than 3 firms but excluding hydrated lime ...	...	...	18,518	...	119,910
Total Dusts and Sprays .....	...	...	4,946,010	...	4,661,416

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1949 and 1950 (Continued)

Commodity	Unit of measure	1949		1950	
		Quantity	Value	Quantity	Value
			\$		\$
(A) Agriculture (Continued)					
Livestock Treatments (including poultry) -					
Wormers -					
Coccidiosis treatments:					
Medicated feeds	ton	(a)		54	5,070
Other	lb.	310,104	89,722	85,396	87,352
Phenothiazene	lb.	...	41,279	46,085	68,170
Other wormers .....	...	(a)		...	109,971
Other Livestock Treatments -					
Animal insect powders (except next item)	lb.	143,222	49,288	235,167	44,889
Warble powders and washes	lb.	...	54,497	100,557	43,819
Barn sprays for residual effects	Imp.gal.	28,100	44,808	95,478	120,860
Livestock sprays	Imp.gal.	100,311	123,443	97,930	131,820
Other livestock treatments .....	...	...	132,400	...	11,675
Total Livestock Treatments	...	...	535,437	...	623,626
Weedicides -					
Chlorates	lb.	(*)		(*)	
Borax	lb.	...	...	(*)
DN compounds	lb.	...	...	(*)
Mineral oils	Imp.gal.	145,992	43,066	236,909	67,398
Non-selective weedicides (mixtures of 2,4-D, 2,4,5-T, oil, etc. ...)	Imp.gal.	(a)		9,636	66,080
2,4-D formulations: (See note below)					
Dusts	lb.(of acid)	239,066	690,039	185,936	356,872
Solutions - Amine	lb.(of acid)	664,267	938,643	800,904	697,581
Ester	lb.(of acid)	712,092	1,802,919	2,818,909	3,619,931
Sodium salt	lb.(of acid)	20,611	26,747	7,883	10,844
Other weedicides, including items marked (*) which were reported by less than 3 firms .....	...	...	1,174,989	...	943,963
Total Weedicides .....	...	...	4,676,403	...	5,762,669
NOTE: 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.					
(B) Household and Industrial Insecticides					
Fumigants (excluding soil fumigants)-					
Cyanide compounds	lb.	(*)		(*)	
Chloropicrin	lb.	(*)		(*)	
Carbon tetrachloride	Imp.gal.	41	98	(*)	
Ethylene dichloride	Imp.gal.	(*)		2,045	5,234
Methyl bromide	lb.	(*)		(*)	
Naphthalene	lb.	781,005	106,629	268,005	62,848
Paradichlorobenzene	lb.	1,643,743	679,981	2,575,358	995,927
Other fumigants, including items marked (*) which were reported by less than 3 firms .....	...	...	53,350	...	130,745

Table 1 - Sales of Pest Control Products by Canadian Registrants, 1949 and 1950 (Concluded)

Commodity	Unit of measure	1949		1950	
		Quantity	Value	Quantity	Value
			\$		\$
(B) Household and Industrial Insecticides (Concluded)					
<u>Powders and Dusts -</u>					
10% DDT insect powders	lb.	25,992	13,039	13,040	6,790
10% DDT insect powders with pyrethrum	lb.	23,220	14,014	17,987	14,669
Sodium fluoride powders	lb.	52,834	19,402	76,252	21,093
Pyrethrum powders	lb.	2,266	2,050	1,450	2,112
Thiocyanate powders	lb.	915	307	272	308
Chlordane insect powders	lb.	1,274	1,069	9,273	1,432
Other powders and dusts .....	...	...	6,053	...	4,962
<u>Sprays and Aerosol Bombs -</u>					
Space or air sprays without DDT	Imp.gal.	3,622	10,044	46,095	113,967
Space or air sprays with DDT	Imp.gal.	38,647	100,457	28,915	78,276
Residual sprays with 5% DDT	Imp.gal.	157,387	349,680	130,228	267,628
Residual sprays with other than DDT .	Imp.gal.	2,057	6,391	52,679	165,739
Mill and warehouse sprays, e.g., of pyrethrum type, etc.	Imp.gal.	20,904	105,287	55,410	96,807
Aerosol bombs (insecticide only) ...	number	145,952	167,799	212,530	186,297
<u>Mosquito and Fly Repellents -</u>					
Citronella type	lb.	1,233	1,437	1,581	2,429
Dimethyl phthalate, indalone, ethyl hexandiol, dimethyl carbate, etc. .	lb.	42,379	68,068	46,896	91,915
Other household and industrial insecticides .....	...	...	119,742	...	93,419
Total Insecticides .....	...	...	1,824,897	...	2,342,597
(C) <u>Disinfectants</u>					
Chlorine .....	...	...	1,138,995	...	1,028,039
Pine oil	Imp.gal.	16,049	41,859	20,015	49,897
Quaternary ammonium and similar cationic compounds .....	...	...	75,861	...	84,958
Coal tar disinfectants	Imp.gal.	152,926	583,327	146,107	451,642
Other types, including formaldehyde solutions and others not reported above	...	...	202,404	...	255,440
Total Disinfectants .....	...	...	2,042,446	...	1,869,976
(D) <u>Rodenticides</u>					
Mouse and rat poisons of all kinds	lb.	108,913	123,948	78,011	100,095
Gopher poisons	lb.	101,156	53,149	120,534	65,455
Other rodenticides (mole killers, etc.).	...	...	(a)	...	1,883
Total Rodenticides .....	...	...	177,097	...	167,433
GRAND TOTAL	14,202,290	...	15,427,717

(a) Data for these items not collected separately in 1949.



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Table 2 - Canadian Exports of Pest Control Products by Registrants, 1949 and 1950

Commodity	Unit of measure	1949 Value	1950 Value
		\$	\$
Agricultural dusts and sprays .....	...	184,411	184,884
Livestock treatments .....	...	116	75
Weedicides	lb.	...	...
Household and industrial insecticides ....	...	8	...
Disinfectants .....	...	...	...
Rodenticides	lb.	15	86
Total Exports .....	...	184,550	185,045