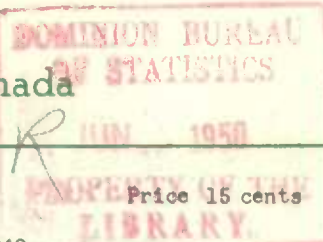


46-212

D.B.S. MEMORANDUM

Dominion Bureau of Statistics, Ottawa, Canada



A 9

SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS, 1949

Sales of pest control products in 1949 as reported by Canadian registrants were valued at \$14,202,290, an advance from the 1948 and 1947 totals of \$11,990,920 and \$9,749,772. It should be noted, however, that the figures are not exactly comparable as in 1949 registrants reporting to the survey used the "invoice" value of their sales, while in 1948 the "dealer" value and in 1947 the "wholesale" value were used.

Agricultural dusts and sprays with sales valued at \$4,946,010 continued to lead all groups, although weedicides at \$4,676,403 followed closely behind. Disinfectants at \$2,042,446, household and industrial insecticides at \$1,824,897, livestock treatments at \$535,437, and rodenticides at \$177,097 accounted for the remainder of the total.

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

Several changes were made in the form used in the 1949 survey. For example, registrants were asked to record all 2,4-D sales in pounds of acid equivalent. At the same time, other sections were developed to permit more accurate reporting. In addition, registrants were asked to use the "invoice" value in reporting sales. These changes are reflected in the present report, making a detailed comparison with other years for individual items rather difficult. For this reason, only the figures relating to the 1949 survey are carried in this report.

About 440 out of a total of 570 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

Commodity	Unit of measure	Quantity	Value \$
(A) AGRICULTURE			
Crop and Seed Treatment -			
(a) 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:			
Arsenicals -			
Arsenate of lead	lb.	2,401,943	614,814
Calcium arsenate	lb.	1,865,920	165,443
2% arsenic dusts (without copper)	lb.	5,660,760	186,884
Paris green	lb.	146,394	53,687
Fluorides -			
Cryolite	lb.	35,162	4,924
Sodium fluosilicate	lb.	...	...

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

Table 1 - SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS, 1949 (Continued)

Commodity	Unit of measure	Quantity	Value
(A) AGRICULTURE (Continued)			
Crop and Seed Treatment (Continued) -			
(a) Agricultural dusts and sprays (Continued) -			
Botanicals -			
Rotenone dusts (containing not more than 1% rotenone)	lb.	684,512	130,299
Pyrethrum dusts (containing not more than 1% pyrethrum) .....	...	(*)	...
Ryania dusts .....	...	...	...
Other botanicals, including item marked (*) which was reported by less than 3 firms .....	...	...	17,218
Synthetic Organics -			
Benzene hexachloride: 6% gamma and under	lb.	207,580	24,106
Over 6% gamma .....	...	(*)	...
Chlordane: 5% dusts	lb.	42,503	6,553
40%-50% wettable powder	lb.	3,857	3,147
40%-50% emulsions	Imp.gal.	1,997	11,706
Other, including 10% dusts and 75.5% emulsions .....	...	...	480,398
Dinitro compounds (phenol and cresol)	lb.	68,465	16,565
DDT: 10% dusts and under	lb.	2,142,292	152,681
25% emulsifiable solutions	Imp.gal.	39,696	147,221
50% wettable powders	lb.	1,275,088	426,687
Parathion: Parathion bombs .....	...	(*)	...
15% wettable powder	lb.	118,035	99,991
Tetra ethyl pyrophosphate: Bombs .....	...	(*)	...
Sprays	Imp.gal.	1,187	12,979
Thiocyanates	Imp.gal.	10,114	19,772
Toxaphene emulsions .....	...	(*)	...
Soil fumigants	lb.	16,099	4,945
Total organics marked (*) which were reported by less than 3 firms .....	...	...	89,179
Copper Compounds (with and without an insecticide) -			
Copper sulphate	lb.	4,316,579	348,728
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
Fixed copper spray materials	lb.	1,362,419	228,110
Fixed copper spray materials with DDT	lb.	1,430,807	193,640
Fixed copper dusts with DDT or arsenic or both.	lb.	2,180,208	218,576
Copper compounds with dithiocarbamates	lb.	...	...
Copper compounds with other insecticides	lb.	700	62
Dry Bordeaux mixture	lb.	105,185	16,666
Other than Copper Fungicides -			
Dry lime-sulphur	lb.	14,208	4,177
Liquid lime-sulphur	Imp.gal.	569,712	115,610
Dusting sulphurs	lb.	122,477	8,660
Wettable sulphurs	lb.	2,666,956	213,247
Dithiocarbamates	lb.	804,877	218,681
Other fungicides	lb.	2,779	4,644
Seed Treatments -			
Organic mercurials	lb.	548,400	307,386
Copper compounds	lb.	5,725	973
Formaldehyde	lb.	272,739	50,581
Thiocarbamates .....	...	(*)	...
Other seed treatments, including item marked (*) which was reported by less than 3 firms..	...	...	33,714

Table 1 - SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS, 1949 (Continued)

Commodity	Unit of measure	Quantity	Value
			\$
(A) <u>AGRICULTURE</u> (Concluded)			
<u>Crop and Seed Treatment</u> (Concluded) -			
(a) <u>Agricultural dusts and sprays</u> (Concluded) -			
<u>Nicotine</u> -			
Nicotine sulphate	lb.	89,021	103,361
Nicotine dusts	lb.	60,167	14,818
Fixed nicotines	lb.	4,303	2,329
<u>Miscellaneous</u> -			
Zinc compounds, including zinc "safeners", e.g., zinc sulphate	lb.	208,198	31,492
Paradichlorobenzene	lb.	3,500	1,360
Vine killers (potato top killers)	lb.	41,757	9,786
Hormones (for delaying fruit drop)	fl.oz.	12,705	680
Mineral oils for dormant or foliage spraying ..	Imp.gal.	164,676	69,077
(b) <u>Adjuvants</u> -			
Soaps, blood albumen, casein, oil spreaders, etc. ..	...	...	7,735
Other agricultural dusts and sprays (but excluding hydrated lime) .....	...	...	18,518
TOTAL DUSTS AND SPRAYS .....	...	...	4,946,010
<u>Livestock Treatments</u> (including poultry) -			
<u>Louse and other insect powders, including:</u>			
Animal insect powders of all kinds	lb.	143,222	49,288
Barn sprays for residual effects	Imp.gal.	28,100	44,808
Livestock sprays	Imp.gal.	100,311	123,443
<u>Warble powders and washes</u> -			
Coccidiosis (treatments)	lb.	310,104	89,722
Phenothiazene .....	...	...	41,279
Other .....	...	...	54,497
Other livestock treatments .....	...	...	132,400
TOTAL LIVESTOCK TREATMENTS .....	...	...	535,437
<u>Weedicides</u> -			
Arsenicals .....	...	(#)	...
Chlorates .....	...	(#)	...
Borax .....	...	...	...
DN compounds .....	...	...	...
Mineral oils	Imp.gal.	145,992	43,066
2,4-D formulations: Dusts	lb.(of acid)	239,066	690,039
Amine	lb.(of acid)	664,267	938,643
Ester	lb.(of acid)	712,092	1,802,919
Sodium salt	lb.(of acid)	20,611	26,747
Other weedicides, including items marked (*) which were reported by less than 3 firms .....	...	...	1,174,989
TOTAL WEEDICIDES .....	...	...	4,676,403

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.



1010650337

Pest Control

- 4 -

Table 1 - SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS, 1949 (Concluded)

Commodity	Unit of measure	Quantity	Value
<u>(B) HOUSEHOLD AND INDUSTRIAL INSECTICIDES</u>			
<u>Fumigants (excluding soil fumigants) -</u>			
Acrylonitrile .....	...	...	...
Carbon bisulphide .....	...	...	...
Cyanide compounds .....	...	(*)	...
Chloropicrin .....	...	(*)	...
Ethylene dibromide .....	...	...	...
Carbon tetrachloride	Imp.gal.	41	98
Ethylene dichloride .....	...	(*)	...
Ethylene oxide .....	...	...	...
Methyl bromide .....	...	(*)	...
Methyl formate .....	...	...	...
Naththalene	lb.	781,005	106,629
Paradichlorobenzene	lb.	1,643,743	679,981
Combinations of the above, including items marked (*)	...	...	...
which were reported by less than 3 firms .....	...	...	53,350
<u>Powders and Dusts -</u>			
10% DDT insect powders	lb.	25,992	13,039
10% DDT insect powders with pyrethrum	lb.	23,220	14,014
Sodium fluoride powders	lb.	52,834	19,402
Pyrethrum powders	lb.	2,266	2,050
Thiocyanate powders	lb.	915	307
Chlordane insect powders	lb.	1,274	1,069
Combinations of the above .....	...	...	6,053
<u>Sprays and Aerosol Bombs -</u>			
Space or air sprays without DDT	Imp.gal.	3,622	10,044
Space or air sprays with DDT	Imp.gal.	38,647	100,457
Residual sprays with 5% DDT	Imp.gal.	157,387	349,680
Residual sprays with other than DDT	Imp.gal.	2,057	6,391
Mill and warehouse sprays, e.g., of pyrethrum type, etc.	Imp.gal.	20,904	105,287
Aerosol bombs (insecticide only)	No.	145,952	167,799
<u>Mosquito and Fly Repellents -</u>			
Citronella type	lb.	1,233	1,437
Dimethyl phthalate, indalone, ethyl hexandiol, dimethyl carbate, etc.	lb.	42,379	68,068
Other household and industrial insecticides .....	...	...	119,742
TOTAL INSECTICIDES .....	...	...	1,824,897
<u>(C) DISINFECTANTS</u>			
Chlorine .....	...	...	1,138,995
Pine oil	Imp.gal.	16,049	41,859
Quaternary ammonium and similar cationic compounds .....	...	...	75,861
Coal tar disinfectants	Imp.gal.	152,926	583,327
Other types, including formaldehyde solutions and others not reported above .....	...	...	202,404
TOTAL DISINFECTANTS .....	...	...	2,042,446
<u>(D) RODENTICIDES</u>			
Mouse and ratpoisons of all kinds	lb.	108,913	123,948
Gopher poisons	lb.	101,156	53,149
TOTAL RODENTICIDES .....	...	...	177,097
GRAND TOTAL .....	...	...	14,202,290

Table 2 - CANADIAN EXPORTS OF PEST CONTROL PRODUCTS BY REGISTRANTS, 1949

Commodity	Value
Agricultural dusts and sprays	184,411
Livestock treatments	116
Weedicides .....	...
Household and industrial insecticides	8
Disinfectants .....	...
Rodenticides	15
TOTAL EXPORTS	184,550