

CATALOGUE No.

46-212

ANNUAL

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce

Price: 25 cents

SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS

12 Months Ended September 30, 1964

DOMINION BUREAU
OF STATISTICS

MAR 3 1965

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Sales of pest control products in the period ending September 30, 1964 as reported by Canadian registrants were valued at \$36,520,327 an increase of .6 per cent over the 36,295,899 reported for the same period the previous year. A breakdown of these totals by group with the previous year shown in brackets is: Agricultural dusts and sprays \$10,285,406 (\$13,400,001); Livestock treatments, \$2,369,587 (\$2,503,341); Herbicides \$14,561,201 (\$12,672,782); Household and Industrial insecticides \$6,696,571 (\$6,303,028); Rodenticides \$579,126 (\$556,633) and unspecified \$2,028,436 (\$860,114).

- Notes:
1. Details presented in this survey refer only to the sale of products registered with the Department of Agriculture as required under the terms of the Pest Control Products Act. From time to time the requirements in force affecting certain products are changed so that the registration of a product may be discontinued. For example, the registration of certain classes of disinfectants was discontinued in 1950. A similar situation obtained in 1956 when the registration of medicated feeds was discontinued. In each case, of course, the figure representing total sales was affected.
 2. All registrants, totalling 304 firms in number was circularized in connection with this survey for the period under review, however, only those reports filed by firms which showed sales in excess of \$10,000 were actually used in developing the details presented in this report. Previous to 1957 the cut-off was \$500. The former group (firms showing sales in excess of \$10,000) included 165 firms in all, and it is estimated that this group accounted for at least 95 per cent of the total sales of pest control products in Canada. The total reported by the remaining group of firms (under \$10,000) is shown under the heading of "Products not specified in detail".

Industry Division

February 1965
6522-830

TABLE 1. Sales of Pest Control Products by Canadian Registrants

Item	Twelve months ended September 30, 1964	
	Quantity	Value
\$		
<u>(A) Agriculture</u>		
A - Arsenicals:		
1. Arsenate of lead	1b.	585,668 154,250
2. Arsenic dusts (without copper) ...	"	2,333,740 120,542
3. Calcium arsenate	"	147,620 11,544
4. Paris green	"	11,500 7,058
B - Botanicals:		
1. Rotenone dusts (not more than 1 per cent rotenone)	"	428,282 119,963
2. Other botanicals (ryania dusts, etc.)	"	37,847 8,022
C - Synthetic organics:		
1. Aldrin - Dusts (including granular dusts)	1b. aldrin	258,920 187,740
Emulsions	"	157,894 244,779
Wettable powders	"	5,915 19,274
2. B.H.C. and lindane, dusts emul- sions and wettable powders	1b. gamma	11,969 46,085
3. Chlordane - Dusts	1b. chlordane	5,924 31,208
Emulsions and wettable powders	"	17,267 36,082
4. Dieldrin - Dusts (including granu- lar dusts)	1b. dieldrin	1,648 11,401
Emulsions	"	36,181 105,310
Wettable powders	"	4,052 9,754
5. Dinitro compounds (phenols and cresols)	1b.	63,868 29,218
6. DDT - Dusts (including granular dusts)	1b. DDT	224,111 101,914
Emulsions	"	472,652 260,328
Wettable powders	"	499,066 220,408
7. Endrin - Dusts	1b. endrin	26,676 20,614
Emulsions and wettable powders	"	49,708 202,583
8. Malathion - Dusts	1b. malathion	8,196 16,715
Emulsions	"	101,471 151,565
Wettable powders	"	43,288 59,101
9. Methoxychlor (all formulations) ..	1b. methoxychlor	90,157 71,155
10. Parathion - Parathion bombs .....		... (1)
Dusts .....		... (1)
Emulsions	1b. parathion	11,406 27,232
Wettable powders	"	25,180 26,676
11. Soil fumigants	1b.	184,618 38,972

(1) Included with 15. "Other synthetic organics - Other, n.e.s."

TABLE 1. Sales of Pest Control Products by Canadian Registrants - Continued

Item	Twelve months ended September 30, 1964	
	Quantity	Value
\$		
<u>(A) Agriculture - Continued</u>		
12. Specific Acaracides (including Aramite, chlorfenson, Fenson, Kelthane, ovex, sulphenon, Tedion, etc.) .....	...	485,601
13. TEPP and HETP (all forms) .....	...	8,829
14. Toxaphene emulsions	1b. toxaphene 16,013	15,700
15. Other synthetic organics:		
Chlorinated hydrocarbons, n.e.s. ..	...	258,947
Phosphates, n.e.s. ....	...	1,797,514
Other, n.e.s. ....	...	448,792
D - Copper compounds (with and without insecticide):		
1. Copper sulphate	1b. 1,576,000	168,992
2. Fixed copper spray materials	" 194,170	87,901
3. Fixed copper spray materials with insecticide	" 100,857	30,929
4. Fixed copper dusts with insecticide ..	" 704,757	112,360
5. Other copper compounds (including copper lime dusts, dry Bordeaux mixture, etc.)	" 90,371	14,277
E - Other than copper fungicides:		
1. Captan (all forms)	1b. captan 231,814	247,414
2. Dithiocarbamates - Ferbam	1b. ferbam 106,982	64,955
Nabam	1b. nabam 411,196	275,306
Thiram .....	...	(2)
Zineb	1b. zineb 57,228	35,411
Other (maneb, ziram, etc.) ..	...	675,455
3. Dithiocarbamates (with insecticide) ..	1b. 251,588	51,314
4. Dusting sulphurs	" 4,940	441
5. Liquid lime-sulphur	Imp. gal. 235,656	75,759
6. Wettable sulphurs - Without insec- ticide	1b. 341,873	33,967
With insec- ticide	" 33,816	19,582
7. Other sulphurs (including dry lime- sulphur)	" 67,254	5,309
8. Mercurial fungicides (except seed treatments)	" 19,832	43,725
9. Other fungicides, not seed treatments (including dichlones, glyodin, etc.) .....	...	819,132

(2) Included with "Other (maneb, ziram, etc.)".

TABLE 1. Sales of Pest Control Products by Canadian Registrants - Continued

Item	Twelve months ended September 30, 1964	
	Quantity	Value
		\$
<u>(A) Agriculture - Continued</u>		
F - Seed treatments:		
1. Fungicidal:		
Chlorobenzenes	lb.	17,316 \ 10,108
Organic mercurials - Liquid ...	Imp. gal.	132,014 747,651
Powders ..	lb.	376,670 \ 385,940
2. Fungicide - Insecticide combina- tions:		
Organic mercurials plus insecti- cide - Liquid	Imp. gal.	25,251 299,573
Powder	lb.	96,505 \ 147,584
Other fungicide plus insecti- cide - Liquid	Imp. gal.	15,723 134,073
Powder	lb.	80,261 \ 92,350
3. Other seed treatments	"	67,209 \ 101,668
G - Miscellaneous:		
1. Mineral oils for dormant or foliage spraying	Imp. gal.	337,737 147,573
2. Nicotine liquids	"	3,512 36,021
3. Other agricultural dusts and sprays including hydrated lime .....		... 65,760
Total agricultural dusts and sprays .....		... 10,285,406
H - Livestock treatments (including poultry):		
Wormers:		
1. Coccidiosis treatments (except medicated feeds)	lb.	159,782 \ 329,482
2. Phenothiazine	lb. phenothiazine	27,639 38,013
3. Piperazine	lb. piperazine	69,740 119,749
4. Other wormers .....		... 112,181
Other livestock treatments:		
1. Animal insect powders (except warble powders)	lb.	600,213 \ 191,055
2. Barn sprays for residual effects	Imp. gal.	31,241 133,173
3. Blackhead treatments .....		... 597,205
4. Livestock sprays	Imp. gal.	150,104 313,802
5. Self-propelled livestock sprays	No.	64,174 58,117
6. Warble powders and washes	lb. rotenone	37,447 56,792
7. Other livestock treatments .....		... 420,018
Total livestock treatments ..		... 2,369,587

TABLE 1. Sales of Pest Control Products by Canadian Registrants - Continued

Item	Twelve months ended September 30, 1964	
	Quantity	Value
		\$
<u>(A) Agriculture - Concluded</u>		
I - Herbicides:		
1. Arsenicals	Imp. gal.	72,161 139,875
2. Borates, chlorates and borate-chlorate mixtures	lb.	2,311,358 291,208
3. Borate-chlorate-monuron mixtures	"	384,785 113,380
4. Butyric and propionic formulations (including 2,4-DB, MCPB, mecoprop, silvix, erbon, etc.) .....		... (3)
5. Carbamates (including CDAA, CDEC, CIPC, IPC, etc.)	lb.	265,676 976,005
6. Cyanamides & potassium cyanates	"	168,263 28,013
7. Dalapon and mixtures including dalapon	"	261,426 205,482
8. Dinitros .....		... 210,153
9. MCPA - Amine	lb. acid	1,014,903 1,053,742
Ester	"	643,070 656,165
Other MCPA formulations	"	75,556 99,557
10. TCA	"	579,976 152,295
11. Triazines	lb. product	1,938,336 2,473,985
12. Substituted ureas, n.e.s.	"	138,028 212,521
13. 2, 4-D formulations:		
Amine liquid	lb. acid	1,419,739 943,866
Ester dust	"	17,836 27,735
Ester liquid	"	5,926,871 4,619,664
Other 2, 4-D formulations	"	... (3)
14. 2, 4, 5-T formulations - Amine	"	... (3)
- Ester	"	343,911 434,334
15. 2, 4-D, 2, 4, 5-T mixtures .....		... 684,070
2, 4-D portion of item 15	lb. acid	489,699 ...
2, 4, 5-T portion of item 15	"	418,071 ...
16. Other herbicides (excluding soil fumigants) .....		... 1,239,151
Total herbicides .....		... 14,561,201

(B) Household and industrial insecticides

A - Fumigants (excluding soil fumigants):

1. Naphthalene .....		... (4)
2. Paradichlorobenzene	lb.	2,722,221 905,041
3. Other (except soil fumigants) but including carbon tetrachloride, ethylene dichloride etc.) .....		... 509,613

(3) Included with "item 16, other herbicides".

(4) Included with "item 3, other fumigants".

Note: MCPA data for 1962 revised. See Table 2, page 7 for details.

TABLE 1. Sales of Pest Control Products by Canadian Registrants - Continued

Item	Twelve months ended September 30, 1964	
	Quantity	Value
		\$
<u>(B) Household and industrial insecticides - Concluded</u>		
B - Powders and dusts:		
1. Ant traps	lb. 461,941	69,706
2. Chlordane insect powders	" 25,372	4,277
3. DDT insect powders (including those with pyrethrum)	" 55,185	27,736
4. Fly baits	" 258,100	134,080
5. Insect powders (without DDT)	" 207,880	35,013
6. Lindane (for vaporizers and fumigators)	lb. lindane 5,882	23,707
7. Lindane dispensers:		
Continuous vaporization type	No. 102	...
Non-continuous fumigation type	" -	-
8. Other powders and dusts (including insect smokes) .....	...	24,431
C - Sprays and aerosol bombs:		
1. Mill and warehouse sprays (pyrethrum type etc.)	Imp. gal. 108,732	329,797
2. Residual sprays:		
With DDT	" 63,414	85,010
Chlorinated hydrocarbons, other than DDT	" 23,046	96,979
3. Self-propelled insecticides:		
Residual type:		
For fabric protection	No. 250,372	205,077
Other	" 240,480	150,505
Space spray type:		
For use on foliage	" 2,035,792	1,858,892
Not for use on foliage	" 963,745	764,931
4. Space or air sprays:		
Chlorinated hydrocarbon type (e.g. DDT, methoxychlor etc.)	Imp. gal. 4,097	33,238
Other	" 71,154	167,264
D - Mosquito and fly repellants:		
1. Dimethyl phthalate, indalone, ethyl hexandiol, toluamide, etc.:		
Liquids .....	...	319,074
Pressurized	No. 978,664	698,681
Other (including creams and sticks)	...	156,339
E - Other household and industrial insecticides		
	...	97,180
Total household and industrial insecticides .....	...	6,696,571

TABLE 1. Sales of Pest Control Products by Canadian Registrants - Concluded

Item	Twelve months ended September 30, 1964	
	Quantity	Value
(C) Rodenticides		\$
A - Mouse and rat poisons:		
1. Warfarin and pival type - 0.5% lb.	91,318	72,801
0.025% "	781,866	361,407
2. Other mouse and rat poisons "	166,569	108,449
B - Other rodenticides (mole killers, gopher poisons, etc.) .....	...	36,469
Total rodenticides .....	...	579,126
Total pest control products specified in detail .....	...	34,491,891
Total pest control products not specified in detail .....	...	2,028,436
Grand total all pest control products .....	...	36,520,327

(a) 10,000 gallons of a 64 oz. ester would be recorded as 40,000 pounds.

(b) 100,000 pounds of 2, 4-D dust (5%) would be recorded as 5,000 pounds.

(c) 5,000 gallons of an 80 oz. amine would be recorded as 25,000 pounds.

... Figures not appropriate or not applicable

Note: Firms reporting MCPA., 2, 4, 5-T and 2, 4-D sales were asked to record their sales on a basis of acid equivalent, i.e.:

(a) 10,000 gallons of a 64 oz. ester to be recorded as 40,000 lb.

(b) 100,000 lb. of a 2, 4-D dust (5%) to be recorded as 5,000 lb.

(c) 5,000 gallons of an 80 oz. amine to be recorded as 25,000 lb.

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