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SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS

12 Months Ended September 30, 1967

Sales of pest control products in the period ended September 30, 1967, as reported by Canadian registrants were valued at \$59,581,359 an increase of 20.3 per cent over the \$49,534,864 reported for 1966.

- 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.
 2. All registrants, totalling 478 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. Those showing sales in excess of \$10,000 included 173 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 totals reported by the remaining group of firms (under \$10,000) are included under the various "other products" headings.

Manufacturing and Primary Industries Division

May 1968
6506-730

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1967

Commodity	Quantity	Value
		dollars
<u>Agriculture</u>		
<u>Crop treatments</u>		
Includes agricultural dusts and sprays for use on field, vegetable and orchard crops and in greenhouses. DOES NOT INCLUDE preparations for use on or around livestock, for weed control (herbicides) or home and garden or industrial pesticides.		
<u>Insecticides</u>		
1. <u>Arsenicals</u> (without fungicide)		
(a) Arsenate of lead:		
Wettable powders pound of product	378,222	116,004
Dusts "	(1)	(1)
(b) Calcium arsenate:		
Wettable powders "	57,146	4,628
Dusts "	(1)	(1)
(c) Other (includes paris green, white arsenic, basic copper arsenate, etc.)	"	(1)
		(1)
2. <u>Botanicals</u> (without fungicide)		
(a) Rotenone dusts (not more than 1% rotenone)	"	193,721
		44,297
(b) Nicotine (alkaloids or sulphate) liquids	Imperial gallon	(1)
		(1)
(c) Other botanicals (all formulations excluding aerosols, e.g. pyrethrum, ryania, etc.)	pound of product	(1)
		(1)
3. <u>Synthetic organics</u> (does not include seed treatments)		
(a) Aldrin (without fungicide):		
Wettable powders pound of	52,844	63,676
Liquids " aldrin	68,719	116,343
Granular " aldrin	226,591	130,671
Dusts " aldrin	84,654	22,749
(b) Benzene hexachloride (BHC) and gamma isomer of BHC (lindane) (without fungicide):		
Wettable powders pound of	14,141	21,282
Liquids " gamma	65,631	98,302
Dusts " isomer	(1)	(1)
(c) Chlordane (without fungicide):		
Wettable powders pound of	(1)	(1)
Liquids " chlordane	10,827	12,061
Dusts " chlordane	9,193	9,494
(d) Dieldrin (without fungicide):		
Wettable powders pound of	3,725	7,905
Liquids " dieldrin	5,396	15,070
Dusts " dieldrin	-	-
Granular " dieldrin	(1)	(1)
(e) Dinitro insecticide-miticide:		
Powders pound of product	(1)	(1)
Liquids Imperial gallon	(1)	(1)
(f) DDT (without fungicide):		
Wettable powders pound of	681,015	269,747
Liquids " technical	860,649	462,002
Dusts " DDT	134,661	41,537
Granular " DDT	8,175	5,501
(g) Endrin (without fungicide):		
Wettable powders pound of	(1)	(1)
Liquid " endrin	40,888	139,123
Dusts " endrin	24,622	4,308
Granular " endrin	-	-

See footnotes on page 10.

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Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1967 - Continued

Commodity	Quantity	Value
		dollars
Insecticides - Concluded		
3. Synthetic organics (does not include seed treatments) - Generalized		
(a) Malathion (without fungicide):		
Wettable powders	pound of technical malathion	33,693 45,901
Liquids	"	51,806 101,294
Dusts	"	2,851 8,306
(b) Methoxychlor (without fungicide):		
Wettable powders	pound of technical methoxychlor	50,586 45,143
Liquids	"	895 3,109
Dusts	"	(1) (1)
(c) Parathion (without fungicide):		
Wettable powders	pound of technical parathion	13,832 26,233
Liquids	"	20,498 34,372
Dusts	"	- -
Granular	"	- -
(d) Toxaphene (without fungicides):		
Wettable powders	pound of product	(1) (1)
Liquids	Imperial gallon	15,461 35,162
4. Other synthetic organics		
(a) Chlorinated hydrocarbons N.E.S. (without fungicide; include DDD, dilan, heptachlor, perthane, thiodan, etc.):		
Wettable powders	pound of product	76,952 147,753
Liquids	Imperial gallon	31,261 213,943
Dusts	pound of product	(1) (1)
Granular	"	(1) (1)
(b) Phosphates N.E.S. (without fungicide; include chlorothion, dylox, dipterex, diazinon, dimethoate, disyston, EPN, ethion, guthion, methyl parathion, metoxysatox, phosphamidon, parathion, phosdrin, satox, trithion, thimet, TEPP, VC - 13, etc.):		
Wettable powders	"	633,549 952,849
Liquids	Imperial gallon	28,242 382,564
Dusts	pound of product	(1) (1)
Granular	"	828,806 224,125
5. Soil fumigants (include allyl alcohol, DD, telone, dowfume W - 85, nemex, dowfume MC - 2, mylone, pestmaster, vapam, verlex, etc.)		
Wettable powders	"	11,541 19,760
Liquids	Imperial gallon	(1) (1)
6. Generic mixtures (include aramite, chlorfenson, fenson, genite, kelthane, ovex, sulphenone, tedion, morocide, morestan, mitox, etc.)		
Wettable powders	pound of product	369,025 474,312
Liquids	Imperial gallon	(1) (1)
7. Other N.E.S. - Individual or mixtures of insecticides (without fungicides; include sevin, thuricide, biotrol, aldrin-heptachlor mixtures, etc.)	pound of product	638,253 396,853
8. Insecticide-fungicide mixtures (include ethion-thiram, W - 13 - thiram, cucurbit dusts, fungicides plus arsenicals, DDT, endrin, thiodan, sevin, etc.)		
Wettable powders	"	69,864 37,354
Dusts	"	526,364 80,771
Granular	"	(1) (1)
Liquids	Imperial gallon	(1) (1)

1967

Sales of Pest Control Products by Canadian Registrants, Year ended September 30, 1967 - Continued

Commodity	Quantity	Value
		dollars
<u>Agricultural fungicides</u>		
9. Copper compounds (does not include copper + insecticide)		
(a) Copper sulphate	pound of product	(1)
(b) Fixed copper spray materials:		
Wettable powders	"	178,458
Dusts	"	181,965
(c) Other copper compounds (copper-lime dusts, dry bordeaux mixture)	"	65,102
		7,713
10. Fungicides other than copper (does not include seed protectants or home and garden products)		
(a) Captan and phaltan (without insecticide):		
Wettable powders	pound of captan	(1)
Dusts	or phaltan	11,237
(b) Ferbam (without insecticide):		
Wettable powders	pound of ferbam	66,292
Dusts	"	(1)
(c) Nabam (without insecticide):		
Wettable powders	pound of product	307,337
Liquids	Imperial gallon	312,449
(d) Thiram (without insecticide):		
Wettable powders	pound of thiram	3,611
Dusts	"	-
(e) Zineb (without insecticide):		
Wettable powders	pound of zineb	(1)
Dusts	"	(1)
(f) Other Dithiocarbamates (without insecticides; include maneb, dithana M - 45, manzate D, polyram, ziram, etc.):		
Wettable powders	pound of product	1,011,597
Dusts	"	(1)
(g) Mercurial fungicides (not seed protectants; include formulations of TAG, puratized agricultural spray, etc., etc.):		
Powders	"	(1)
Liquids	Imperial gallon	(1)
(h) Sulphurs (without insecticide):		
Wettable sulphurs	pound of product	451,858
Dusting sulphurs	"	40,628
Liquid lime sulphur	Imperial gallon	(1)
Others (including dry lime sulphur)	pound of product	(1)
(i) Other fungicides (not seed protectants; include cyprex, dyrene, glyodin, glydox, phygon, etc.):		
Wettable powders	"	612,028
Dusts	"	(1)
Liquids	Imperial gallon	(1)
11. Seed treatments (include liquid and powder seed protectants or seed dressings for use on agricultural crops)		
Seed treatments (seed dressings, seed protectants, etc.):		
(a) Fungicide only:		
(i) Chlorobenzenes (includes PCNB, rhodan nitrobenzene, HCB, tetrachlorobenzoquinones):		
Powders	Pound of product	(1)
(ii) Organic mercurials:		
Powders	"	55,380
Drill box	"	170,797
Liquids	Imperial gallon	110,312
		694,962

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1967 - Continued

Commodity	Quantity	Value
		dollars
<u>Agricultural fungicides - Concluded</u>		
11. <u>Seed treatments</u> (include liquid and powder seed protectants or seed dressings for use on agricultural crops) - Concluded		
Seed treatments (seed dressings, seed protectants, etc.):		
(a) Fungicide only:		
(iii) Organic fungicides (non-mercurials; e.g. captan, thiram, etc.):		
Powders pound of product	16,961	36,199
Drill box "	(1)	(1)
(iv) Other fungicides (alone or in fungicide mixtures; e.g. dixon, dexam - PCNB, formaldehyde, copper oxalate, etc.):		
Powders "	(1)	(1)
Drill box "	-	-
Liquids Imperial gallon	(1)	(1)
(b) Insecticide only (alone or in mixtures with other insecticides; e.g. lindane, aldrin, heptachlor, dieldrin, diazinon, aldrin-heptachlor mixtures, etc.):		
Powders pound of product	(1)	(1)
Drill box "	(1)	(1)
Liquids Imperial gallon	7,571	66,466
(c) Fungicide-insecticide combinations:		
(i) Organic mercurials plus insecticide:		
Powders pound of product	25,394	48,272
Drill box "	142,109	149,141
Liquids Imperial gallon	20,107	239,786
(ii) Organic fungicides plus insecticide:		
Powders pound of product	16,867	34,633
Drill box "	(1)	(1)
Liquids Imperial gallon	(1)	(1)
(iii) Other (not included in 11a, b or c):		
Powders pound of product	(1)	(1)
Drill box "	(1)	(1)
Liquids Imperial gallon	(1)	(1)
12. <u>Miscellaneous</u>		
(a) Petroleum oils:		
(i) Petroleum oils for dormant or foliage spraying ... Imperial gallon	186,977	166,785
(ii) Petroleum oils used as herbicides or in combination with herbicides (include stoddard solvent, carrot-oil, atro-oil, etc.) "	362,125	173,665
(b) Other agricultural dusts and sprays, excluding fertilizer, (include hydrated lime, zinc sulphate, MH - 30, tobacco sucker oils, stop scald, apple thinning agent, growth hormones, etc.):		
Powders pound of product	(1)	(1)
Liquids Imperial gallon	(1)	(1)
<u>Agricultural livestock treatments</u>		
13. <u>Livestock treatments</u>		
(a) Blackhead treatments:		
Powders pound of product	71,147	217,504
Liquids Imperial gallon	-	-
(b) Coccidiosis medications (including sales to feed manufacturers):		
Preventives (used in feeds) .....	...	2,847,547
Treatments .....	...	281,599

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1967 - Continued

Commodity	Quantity	Value
		dollars
<u>Agricultural livestock treatments - Concluded</u>		
13. <u>Livestock treatments</u> - Concluded		
(c) Wormers:		
(i) Phenothiazine	actual pounds	16,375 ✓
(ii) Piperazine:		
Powders	pound of product	78,387 ✓
Liquids (other concentrations)	Imperial gallon	8,931
(iii) Mixtures of piperazine and other wormers:		
Powders	pound of product	(1)
Liquids	Imperial gallon	-
(iv) Other wormers:		
Powders	pound of product	37,647 ✓
Liquids	Imperial gallon	(1)
(d) Products for controlling ectoparasites (lice, ticks, hornflies, stable flies, face flies, warble grubs and flies, etc.):		
(i) Livestock sprays for dairy use	"	186,837
(ii) Livestock sprays-pressurized	number of units	28,222
(iii) Products for use in back rubbers and as residual livestock sprays and dips:		
Ready to use	Imperial gallon	45,606
Concentrates	"	8,462
(iv) Animal insect powders and dusts (excluding warble powders and products for home owner use):		
Powders and dusts	pound of product	579,697 ✓
(v) Warble powder and washes (rotenone only):		
5% Rotenone	"	135,981 ✓
Other	"	6,648 ✓
(vi) Other products (include carbamates, systemic insecticides, etc.):		
Dusts	"	(1)
Wettable powders	"	(1)
Other	"	(1)
(e) Products for controlling flies in livestock quarters:		
(i) Residual barn sprays:		
Ready to use	Imperial gallon	(1)
Concentrates	"	7,041
(ii) Fly baits	pound of product	220,379 ✓
(iii) Others (including space sprays and vaporizer products, impregnated strings, etc.) .....		...
		(1)
<u>Agricultural herbicides</u>		
14. <u>Herbicides</u> (does not include herbicidal oil)		
✓ (a) Arsenicals (sodium arsenite as potato top killer only):		
Liquids	Imperial gallon	99,503
✓ (b) Borates, chlorates, borate-chlorate formulations (excluding item 14C below):		
Powders	pound of product	2,110,591 ✓
✓ (c) Borate-chlorate mixtures with other herbicides (include mixtures with ureas and triazines, etc.):		
Powders	"	(1)
✓ (d) 2, 4-D formulations:		
Amine liquid	pound of	2,126,053
Ester liquid	acid	7,618,861
Other 2, 4-D formulations	equivalent	79,168
✓ (e) 2, 4, 5-T formulations:		
Amine liquid	pound of	(1)
Ester liquid	acid equivalent	93,219
		(1)
		112,317

See footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1967 - Continued

Commodity		Quantity	Value
<u>Agricultural herbicides - Concluded</u>			dollars
14. Herbicides (does not include herbicidal oil) - Concluded			
(f) 2, 4-D & 2, 4, 5-T mixtures:			
2, 4-D portion	pound of	405,501	429,036
2, 4, 5-T portion	acid equivalent	369,582	427,052
(g) MCPA formulations:			
Amine liquid	pound	1,687,517	1,802,666
Ester liquid	of	817,664	765,069
Sodium salt liquid	acid	113,929	117,786
Other MCPA liquid	equivalent	(1)	(1)
(h) 2, 4-DB formulations:			
Liquid	pound of acid	(1)	(1)
Others	"	(1)	(1)
(i) MCPB formulations:			
Liquid	"	(1)	(1)
Other (include MCPB-MCPA mixtures)	"	(1)	(1)
(j) Agricultural propionic formulations (include macoprop, silvex, erbon, etc., but not formulations for garden and home use):			
Liquid	"	(1)	(1)
Other	"		
(k) Carbamate herbicides (include avadex, avadex BW, CIPC, eptam, IPC, tillam, vegedex):			
Wettable powders	pound of product	(1)	(1)
Granular	"	(1)	(1)
Liquid	Imperial gallon	506,312	5,356,427
(l) Cyanamides and potassium cyanate	pound of product	(1)	(1)
(m) Dalapon and mixtures including dalapon	"	573,662	410,483
(n) Dinitros (products containing DINOSEB for herbicidal use only):			
Granular	pound of product	(1)	(1)
Liquid	Imperial gallon	(1)	(1)
(o) TCA and its formulations	pound of product	1,293,251	321,050
(p) Triazines (include atrazine, prometrone, simazine, etc.)	"	(1)	(1)
(q) Urea herbicides (include monuron, diuron, linuron, etc.)	"	318,844	609,134
(r) Other herbicides (excluding soil fumigants) .....		...	(1)
(i) General vegetation killers (include ammate, amino triazole, bromacil, tridex, urox, dybar, pentachlorophenol, trichlorbenzoic acid, tordon, banvel D, etc.):			
Wettable powders	"	(1)	(1)
Granular	"	98,670	64,690
Others	"	(1)	(1)
Liquids	Imperial gallon	85,384	1,148,158
(ii) For crop use (includes carbine, dacthal, sesone, diquat, paraquat, stam F - 34, solan, alanap, endothal, pyramin, randox, randox - T, trifluralin, etc.):			
Wettable powders	pound of product	84,521	244,440
Granular	"	(1)	(1)
Others	"	(1)	(1)
Liquids	Imperial gallon	86,132	1,530,317
(iii) Herbicides mixtures (not previously specified; e.g. alanap-CIPC, dicamba-phenoxy mixtures, etc.):			
Powders	pound of product	(1)	(1)
Liquids	Imperial gallon	(1)	(1)
15. All other agricultural and livestock products .....		...	12,463,646
Totals .....		...	45,580,964

see footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1967 - Continued

Commodity	Quantity	Value
		dollars
<u>Rodenticides (agricultural use only)</u>		
16. <u>Mouse and rat poisons:</u>		
(a) Warfarin and pival type:		
0.5%	pound of product	64,868 ' 34,552
0.025%	"	409,450 ' 153,245
(b) Warfarin plus prolin	"	194,862 ' 94,529
(c) Other mouse and/or rat poisons	"	288,910 ' 124,817
17. <u>Other rodenticides</u> (mole killers, gopher poisons, etc.)	"	93,203 ' 83,750
Totals .....	...	490,893
<u>Home and garden sales</u> (not industrial or agricultural; include all products purchased by home owners for use in and around the home)		
18. <u>Fumigants</u> (excluding soil fumigants)		
(a) Naphthalene	pound of product	1,625,952 ' 359,134
(b) Paradichlorobenzene	"	3,850,836 ' 1,387,237
(c) Others (except soil fumigants)	"	... (2)
19. <u>Wormers</u> and similar products for small animals .....	...	(2)
20. <u>Insecticides</u> (excluding aerosols and fungicide-insecticide mixtures)		
(a) For use on gardens, lawns, shrubs, etc.:		
Liquids	Imperial gallon	38,928 310,807
Wettable powders	pound of product	11,092 ' 10,916
Granular	"	154,579 ' 62,824
Dusts	"	376,989 ' 158,591
(b) For use on small animals:		
Dusts	"	17,633 ' 32,432
Repellents	"	(2) (2)
Others	"	(2) (2)
21. <u>Fungicides</u> (excluding aerosols and insecticide-fungicide mixtures)		
Dusts	"	(2) (2)
Wettable powders	"	7,107 ' 6,917
Liquids	Imperial gallon	(2) (2)
22. <u>Fungicide-insecticide mixtures</u> (include mixtures with miticides)		
Dusts	pound of product	302,965 ' 171,706
Wettable powders	"	17,003 ' 19,837
Liquids	Imperial gallon	(2) (2)
23. <u>Herbicides</u>		
(a) Arsenicals (disodium methyl arsonate, octyle ammonium methyl arsonate, dodecyl ammonium methyl arsenate, sodium arsenite):		
Powders (include dust and granules)	pound of product	(2) (2)
Liquid	Imperial gallon	14,806 45,534

~~See continuation on page 10.~~

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1967 - Continued

Commodity	Quantity	Value
		dollars
<u>Rodenticides (agricultural use only)</u>		
23. <u>Herbicides</u> - Concluded		
(b) Hormone type (2, 4-D, silvex, 2, 4, 5-T, mecoprop, etc., alone or in mixtures with any other herbicide, e.g. 2, 4-D, 2, 4, 5-T, monuron mixtures):		
Liquid	Imperial gallon	(2)
Granular	pound of product	(2)
Powders	"	(2)
(c) Herbicide-fertilizer mixtures (include fertilizer + dacthal, zytron, trifluralin, etc.):		
Liquid	Imperial gallon	-
Powders	pound of product	-
Granular	"	(2)
(d) Other (dacthal, zytron, trifluralin, moss killers):		
Powders	"	(2)
Granular	"	(2)
Liquid	Imperial gallon	-
24. <u>Aerosols</u> (not industrial, for use in and around the home or garden)		
(i) Space spray or residual type containing, pyrethrums or allethrins + synergist:		
Alone	number of units	(2)
With DDT	"	20,037
With more than two insecticides	"	260,350
Insecticide-fungicide combinations	"	59,887
(ii) Herbicide aerosols	"	(2)
(iii) Aerosols for fabric protection	"	259,311
		226,408
25. <u>Baits, traps, repellents, etc.</u> (specifically for home use)		
(a) Ant traps	"	469,876
(b) Slug baits	pound of product	62,952
(c) Rat and mouse baits	"	129,407
(d) Repellents (mosquito, flies, and rabbits; include products containing dimethyl phthalate, indalone, ethyl hexandiol, thiram, etc.):		
Liquids	number of pints	62,898
Pressurized	number of units	1,967,656
Other (including creams and sticks)	"	207,699
26. <u>Miscellaneous</u> (not insecticide or fungicide; include leaf polish formulations, hormone sprays and other specialty items)		
Liquids	number of pints	(2)
Powders	pound of product	(2)
Aerosols	number of units	10,044
27. <u>All other garden and home products</u>	***	6,588,619
Totals	***	12,138,969
<u>Industrial insecticides</u> (include materials used by industrial plants, warehouses, etc. not materials used by home owners)		
28. <u>Fumigants</u>		
(a) Chloropicrin	Imperial gallon	(3)
(b) Methyl bromide alone	"	(3)

See footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1967 - Concluded

Commodity	Quantity	Value
		dollars
<u>Industrial insecticides</u> (include materials used by industrial plants, warehouses, etc. not materials used by home owners) - Concluded		
28. <u>Fumigants</u> - Concluded		
(c) Carbon tetrachloride, carbon bisulphide, ethylene dichloride, ethylene dibromide alone or mixtures of them (including methyl bromide)	Imperial gallon	(3)
(d) Other fumigants (for insect control in stored products) "		...
29. <u>Powders and dusts</u> (for industrial use only)		
(a) Chlordane insect powders	pound of product	(3)
(b) DDT insect powders (including those with pyrethrum)	"	(3)
(c) Insect powders (without DDT)	"	(3)
(d) Lindane (for vaporizers and fumigators)	pound of lindane	(3)
(e) Lindane dispensers:		
Continuous vaporization type	number of units	-
Non-continuous	"	-
Fumigation type	"	(3)
(f) Other powders and dusts (including insect smokes) .....		...
30. <u>Mill and industrial sprays</u>		
(i) Mill and industrial sprays (exclude aerosols):		
Space	Imperial gallon	37,377
Residual	"	2,947
(ii) Mill and industrial aerosols:		
Chlorinated hydrocarbon type (DDT, methoxychlor, etc.)	number of units	3,343
Other	"	18,820
31. <u>Other industrial pesticides</u>		
Liquids .....		...
Powders .....		...
32. <u>All other industrial products</u>		
Totals .....		...
Total all pest control products		59,581,359

(1) Confidential - Included with item 15 "All other Agricultural and Livestock Products".

(2) Confidential - Included with item 27 "All other Garden and Home Products".

(3) Confidential - Included with item 32 "All other Industrial Products".

... Figures not appropriate or not applicable.

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