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SALES OF PEST CONTROL PRODUCTS BY CANADIAN REGISTRANTS

12 Months Ended September 30, 1968

Sales of pest control products in the period ended September 30, 1968, as reported by Canadian registrants were valued at $65,689,759 an increase of 10.3 per cent over the $59,581,359 reported for 1967.

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 481 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 151 firms in all; and it is estimated that this group accounted for at least 98 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

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6506-730

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Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1968

Commodity		Quantity	Value
			dollars
Agriculture			
Crop treatments 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.			
Insecticides			
1. Arsenicals (without fungicide)			
(a) Arsenate of lead:			
Wettable powders	pound of product	438,894	155,061
Dusts	"	(1)	(1)
(b) Calcium arsenate:			
Wettable powders	"	62,366	7,099
Dusts	"	(1)	(1)
(c) Other (includes paris green, white arsenic, basic copper arsenate, etc.)	"	(1)	(1)
2. Botanicals (without fungicide)			
(a) Rotenone dusts (not more than 1% rotenone)	"	191,027	46,197
(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. Synthetic organics (does not include seed treatments)			
(a) Aldrin (without fungicide):			
Wettable powders	pound	(1)	(1)
Liquids	of	73,559	117,361
Granular	technical	109,498	145,075
Dusts	aldrin	(1)	(1)
(b) Benzene hexachloride (BHC) and gamma isomer of BHC (lindane) (without fungicide):			
Wettable powders	pound of	7,075	19,086
Liquids	gamma	27,545	72,477
Dusts	isomer	(1)	(1)
(c) Chlordane (without fungicide):			
Wettable powders	pound of	(1)	(1)
Liquids	technical	22,613	29,509
Dusts	chlordane	(1)	(1)
(d) Dieldrin (without fungicide):			
Wettable powders	pound	(1)	(1)
Liquids	of	6,032	17,131
Dusts	technical	(1)	(1)
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	680,968	231,892
Liquids	of	1,107,438	539,186
Dusts	technical	44,583	52,322
Granular	DDT	(1)	(1)
(g) Endrin (without fungicide):			
Wettable powders	pound	(1)	(1)
Liquid	of	40,286	147,759
Dusts	technical	(1)	(1)
Granular	endrin	-	-

See footnotes on page 13.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1968 - Continued

Commodity		Quantity	Value
			dollars
Insecticides - Concluded			
3. Synthetic organics (does not include seed treatments) - Concluded			
(h) Malathion (without fungicide):			
Wettable powders	pound of	21,501	45,451
Liquid	technical	224,743	280,297
Dusts	malathion	4,312	11,561
(i) Methoxychlor (without fungicide):			
Wettable powders	pound of	7,249	11,099
Liquids	technical	(1)	(1)
Dusts	methoxychlor	(1)	(1)
(j) Parathion (without fungicide):			
Wettable powders	pound	27,354	41,446
Liquids	of	15,352	31,568
Dusts	technical	-	-
Granular	parathion	-	-
(k) Toxaphene (without fungicides):			
Wettable powders	pound of product	(1)	(1)
Liquids	Imperial gallon	6,255	20,740
4. Other synthetic organics			
(a) Chlorinated hydrocarbons N.E.S. (without fungicide; include DDD, dilan, heptachlor, perthane, thiodan, etc.):			
Wettable powders	pound of product	83,576	152,685
Liquids	Imperial gallon	33,705	297,246
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, meta systox, phosphamidon, parathion, phosdrin, systox, trithion, thimet, TEPP, VC - 13, etc.):			
Wettable powders	"	1,019,761	1,472,247
Liquids	Imperial gallon	23,876	475,724
Dusts	pound of product	(1)	(1)
Granular	"	697,436	184,131
5. Soil fumigants (include allyl alcohol, DD, telone, dowfume W - 85, nemex, dowfume MC - 2, mylone, pestmaster, vapam, vorlex, etc.)			
Powders	"	(1)	(1)
Liquids	Imperial gallon	(1)	(1)
6. Specific miticides (include aramite, chlorfenson, fenson, genite, kelthane, ovex, sulphenone, tedion, morocide, morestan, mitox, etc.)			
Wettable powders	pound of product	259,857	386,937
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	804,483	521,969
8. Insecticide-fungicide mixtures (include ethion-thiram, VC - 13 - thiram, cucurbit dusts, fungicides plus arsenicals, DDT, endrin, thiodan, sevin, etc.)			
Wettable powders	"	50,188	37,067
Dusts	"	585,701	96,331
Granular	"	(1)	(1)
Liquids	Imperial gallon	(1)	(1)
9. All other agricultural insecticides		...	1,401,304
Total insecticides		...	7,047,958

See footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1968 - Continued

Commodity		Quantity	Value
			dollars
Agricultural fungicides			
10. Copper compounds (does not include copper + insecticide)			
(a) Copper sulphate	pound of product	(2)	(2)
(b) Fixed copper spray materials:			
Wettable powders	"	161,431	90,187
Dusts	"	(2)	(2)
(c) Other copper compounds (copper-lime dusts, dry bordeaux mixture)	"	14,767	2,562
11. 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	(2)	(2)
Dusts	or phaltan	10,568	12,119
(b) Ferbam (without insecticide):			
Wettable powders	pound of ferbam	87,288	58,230
Dusts	"	(2)	(2)
(c) Nabam (without insecticide):			
Wettable powders	pound of product	-	-
Liquids	Imperial gallon	241,255	317,764
(d) Thiram (without insecticide):			
Wettable powders	pound of thiram	6,640	9,861
Dusts	"	(2)	(2)
(e) Zineb (without insecticide):			
Wettable powders	pound of zineb	50,938	34,334
Dusts	"	(2)	(2)
(f) Other Dithiocarbamates (without insecticides: include maneb, dithana M - 45, manzate D, polyram, ziram, etc.):			
Wettable powders	pound of product	1,123,467	866,417
Dusts	"	(2)	(2)
(g) Mercurial fungicides (not seed protectants; include formulations of TAG, puratized agricultural spray, erad, MCO, etc.):			
Powders	"	(2)	(2)
Liquids	Imperial gallon	(2)	(2)
(h) Sulphurs (without insecticide):			
Wettable sulphurs	pound of product	467,739	63,487
Dusting sulphurs	"	26,750	2,661
Liquid lime sulphur	Imperial gallon	(2)	(2)
Others (including dry lime sulphur)	pound of product	(2)	(2)
(i) Other fungicides (not seed protectants: include cyprex, dyrene, glyodin, glydox, phygon, etc.):			
Wettable powders	"	388,398	657,491
Dusts	"	(2)	(2)
Liquids	Imperial gallon	(2)	(2)
12. 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	(2)	(2)
(ii) Organic mercurials:			
Powders	"	17,579	25,827
Drill Box	"	174,018	122,318
Liquids	Imperial gallon	104,239	287,342

See footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1968 - Continued

Commodity		Quantity	Value
			dollars
Agricultural fungicides - Concluded			
12. Seed treatments (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	(2)	(2)
Drill box	"	(2)	(2)
(iv) Other fungicides (alone or in fungicide mixtures; e.g. dexon, dexon - PCNB, formaldehyde, copper oxalate, etc.):			
Powders	"	(2)	(2)
Drill box	"	-	-
Liquids	Imperial gallon	(2)	(2)
(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	(2)	(2)
Drill box	"	(2)	(2)
Liquids	Imperial gallon	21,875	161,990
(c) Fungicide-insecticide combinations:			
(i) Organic mercurials plus insecticide:			
Powders	pound of product	10,632	17,488
Drill box	"	77,841	114,120
Liquids	Imperial gallon	30,172	329,155
(ii) Organic fungicides plus insecticide:			
Powders	pound of product	32,693	52,571
Drill box	"	(2)	(2)
Liquids	Imperial gallon	(2)	(2)
(iii) Other (not included in 11a, b or c):			
Powders	pound of product	(2)	(2)
Drill box	"	-	-
Liquids	Imperial gallon	(2)	(2)
13. Miscellaneous			
(a) Petroleum oils:			
(i) Petroleum oils for dormant or foliage spraying	Imperial gallon	202,757	189,994
(ii) Petroleum oils used as herbicides or in combination with herbicides (include stoddard solvent, carrot-oil, atro-oil, etc.)	"	390,637	142,222
(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	(2)	(2)
Liquids	Imperial gallon	(2)	(2)
14. All other agricultural fungicides		...	1,367,982
Total fungicides		...	5,346,362
Agricultural livestock treatments			
15. Livestock treatments			
(a) Blackhead treatments:			
Powders	pound of product	68,789	208,469
Liquids	Imperial gallon	(3)	(3)
(b) Coccidiosis medications (including sales to feed manufacturers):			
Preventives (used in feeds)		...	2,292,965
Treatments		...	222,879

See footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1968 - Continued

Commodity		Quantity	Value
			dollars
Agricultural livestock treatments - Concluded			
15. Livestock treatments - Concluded			
(c) Wormers:			
(i) Phenothiazine	actual pounds	15,782	19,821
(ii) Piperazine:			
Powders	pound of product	93,776	137,549
Liquids (other concentrations)	Imperial gallon	12,054	110,242
(iii) Mixtures of piperazine and other wormers:			
Powders	pound of product	(3)	(3)
Liquids	Imperial gallon	(3)	(3)
(iv) Other wormers:			
Powders	pound of product	80,445	202,487
Liquids	Imperial gallon	(3)	(3)
(d) Products for controlling ectoparasites (lice, ticks, hornflies, stable flies, face flies, warble grubs and flies, etc.):			
(i) Livestock sprays for dairy use	"	234,139	472,184
(ii) Livestock sprays-pressurized	number of units	23,829	31,943
(iii) Products for use in back rubbers and as residual livestock sprays and dips:			
Ready to use	Imperial gallon	64,061	145,500
Concentrates	"	10,561	84,506
(iv) Animal insect powders and dusts (excluding warble powders and products for home owner use):			
Powders and dusts	pound of product	301,102	128,567
(v) Warble powder and washes (rotenone only):			
5% Rotenone	"	136,776	49,600
Other	"	(3)	(3)
(vi) Other products (include carbamates, systemic insecticides, etc.):			
Dusts	"	(3)	(3)
Wettable powders	"	(3)	(3)
Other	"	114,202	455,447
(e) Products for controlling flies in livestock quarters:			
(i) Residual barn sprays:			
Ready to use	Imperial gallon	(3)	(3)
Concentrates	"	8,485	109,790
(ii) Fly baits	pound of product	168,564	92,725
(iii) Others (including space sprays and vaporizer products, impregnated strings, etc.)		...	(3)
16. All other agricultural livestock treatments		...	2,010,373
Total livestock treatments		...	6,775,067
Agricultural herbicides			
17. Herbicides (does not include herbicidal oil)			
(a) Arsenicals (sodium arsenite as potato top killer only):			
Liquids	Imperial gallon	109,953	210,536
(b) Borates, chlorates, borate-chlorate formulations (excluding item 14C below):			
Powders	pound of product	747,823	122,726
(c) Borate-chlorate mixtures with other herbicides (include mixtures with ureas and triazines, etc.):			
Powders	"	(4)	(4)
(d) 2, 4-D formulations:			
Amine liquid	pound of acid equivalent	2,440,114	1,533,890
Ester liquid		9,686,350	4,626,075
Other 2, 4-D formulations		(4)	(4)
(e) 2, 4, 5-T formulations:			
Amine liquid	pound of acid equivalent	(4)	(4)
Ester liquid		275,150	297,954

See footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1968 - Continued

Commodity		Quantity	Value
			dollars
Agricultural herbicides - Concluded			
17. Herbicides (does not include herbicidal oil) - Concluded			
(f) 2, 4-D & 2, 4, 5-T mixtures:			
2, 4-D portion	pound of acid equivalent	348,732	375,640
2, 4, 5-T portion		317,074	389,476
(g) MCPA formulations:			
Amine liquid	pound of acid equivalent	1,784,872	1,794,487
Ester liquid		775,847	753,932
Sodium salt liquid		162,350	156,699
Other MCPA liquid		(4)	(4)
(h) 2, 4-DB formulations:			
Liquid	pound of acid	(4)	(4)
Others	"	-	-
(i) MCPB formulations:			
Liquid	"	(4)	(4)
Other (include MCPB-MCPA mixtures)	"	(4)	(4)
(j) Agricultural propionic formulations (include macoprop, silvex, erbon, etc., but not formulations for garden and home use):			
Liquid	"	114,640	123,236
Other	"	-	-
(k) Carbamate herbicides (include avadex, avadex BW, CIPC, eptam, IPC, tillam, vegedex):			
Wettable powders	pound of product	-	-
Granular	"	(4)	(4)
Liquid	Imperial gallon	(4)	(4)
(l) Cyanamides and potassium cyanate	pound of product	(4)	(4)
(m) Dalapon and mixtures including dalapon	"	505,625	359,750
(n) Dinitros (products containing DINOSEB for herbicidal use only):			
Granular	pound of product	-	-
Liquid	Imperial gallon	(4)	(4)
(o) TCA and its formulations	pound of product	2,058,339	588,193
(p) Triazines (include atrazine, prometrone, simazine, etc.)	"	(4)	(4)
(q) Urea herbicides (include monuron, diuron, linuron, etc.)	"	524,166	917,934
(r) Other herbicides (excluding soil fumigants)		...	(4)
(i) General vegetation killers (include ammate, amino triazole, bromacil, tridex, urox, dybar, pentachlorphenol, trichlorbenzoic acid, tordon, banvel D, etc.):			
Wettable powders	"	(4)	(4)
Granular	"	111,174	56,823
Others	"	-	-
Liquids	Imperial gallon	154,406	1,838,346
(ii) For crop use (includes carbyne, dacthal, sesone, diquat, paraquat, stam F - 34, solan, alanap, endothal, pyramin, randox, randox - T, trifluralin, etc.):			
Wettable powders	pound of product	37,030	98,270
Granular	"	(4)	(4)
Others	"	-	-
Liquids	Imperial gallon	476,046	5,886,531
(iii) Herbicides mixtures (not previously specified; e.g. alanap-CIPC, dicamba-phenoxy mixtures, etc.):			
Powders	pound of product	(4)	(4)
Liquids	Imperial gallon	(4)	(4)
18. All other agricultural herbicides		...	14,541,433
Total agricultural herbicides		...	34,671,631

See footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1968 - Continued

Commodity		Quantity	Value
			dollars
Rodenticides (agricultural use only)			
19. Mouse and rat poisons:			
(a) Warfarin and pival type:			
0.5%	pound of product	116,736	41,379
0.025%	"	366,910	157,253
(b) Warfarin plus prolin	"	243,908	120,120
(c) Other mouse and/or rat poisons	"	311,040	134,509
20. Other rodenticides (mole killers, gopher poisons, etc.)	"	109,499	98,306
Total rodenticides		...	551,567
Home and garden sales (not industrial or agricultural; include all products purchased by home owners for use in and around the home)			
21. Fumigants (excluding soil fumigants)			
(a) Naphthalene	pound of product	1,768,740	385,842
(b) Paradichlorobenzene	"	3,942,429	1,131,630
(c) Others (except soil fumigants)		...	(5)
22. Wormers and similar products for small animals		...	(5)
23. Insecticides (excluding aerosols and fungicide-insecticide mixtures)			
(a) For use on gardens, lawns, shrubs, etc.:			
Liquids	Imperial gallon	46,699	385,565
Wettable powders	pound of product	21,998	35,084
Granular	"	220,985	104,125
Dusts	"	422,083	175,364
(b) For use on small animals:			
Dusts	"	33,108	77,963
Repellents	"	(5)	(5)
Others	"	(5)	(5)
24. Fungicides (excluding aerosols and insecticide-fungicide mixtures)			
Dusts	"	(5)	(5)
Wettable powders	"	(5)	(5)
Liquids	Imperial gallon	(5)	(5)
25. Fungicide-insecticide mixtures (include mixtures with miticides)			
Dusts	pound of product	411,890	233,931
Wettable powders	"	20,235	22,990
Liquids	Imperial gallon	(5)	(5)
26. Herbicides			
(a) Arsenicals (disodium methyl arsonate, octyle ammonium methyl arsonate, dodecyl ammonium methyl arsenate, sodium arsenite):			
Powders (include dust and granules)	pound of product	-	-
Liquid	Imperial gallon	16,364	54,624

See footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1968 - Continued

Commodity		Quantity	Value
			dollars
Rodenticides (agricultural use only)			
26. Herbicides - 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	50,636	418,484
Granular	pound of product	(5)	(5)
Powders	"	(5)	(5)
(c) Herbicide-fertilizer mixtures (include fertilizer + dacthal, zytron, trifluralin, etc.):			
Liquid	Imperial gallon	-	-
Powders	pound of product	(5)	(5)
Granular	"	(5)	(5)
(d) Other (dacthal, zytron, trifluralin, moss killers):			
Powders	"	(5)	(5)
Granular	"	102,384	28,607
Liquid	Imperial gallon	-	-
27. Aerosols (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	(5)	(5)
With DDT	"	(5)	(5)
With more than two insecticides	"	805,176	721,103
Insecticide-fungicide combinations	"	76,416	73,939
(ii) Herbicide aerosols	"	(5)	(5)
(iii) Aerosols for fabric protection	"	256,814	242,640
28. Baits, traps, repellents, etc. (specifically for home use)			
(a) Ant traps	"	584,447	101,514
(b) Slug baits	pound of product	209,695	66,218
(c) Rat and mouse baits	"	318,154	156,747
(d) Repellents (mosquito, flies, and rabbits; include products containing dimethyl phalate, indalone, ethyl hexandiol, thiram, etc.):			
Liquids	number of pints	24,969	134,315
Pressurized	number of units	1,947,555	1,597,052
Other (including creams and sticks)	"	...	108,281
29. Miscellaneous (not insecticide or fungicide; include leaf polish formulations, hormone sprays and other specialty items)			
Liquids	number of pints	(5)	(5)
Powders	pound of product	(5)	(5)
Aerosols	number of units	21,627	12,416
30. All other garden and home products		...	3,458,739
Total garden and home products		...	9,727,183
Industrial insecticides (include materials used by industrial plants, warehouses, etc. not materials used by home owners)			
31. Fumigants			
(a) Chloripicrin	Imperial gallon	-	-
(b) Methyl bromide alone	"	(6)	(6)

See footnotes on page 10.

Sales of Pest Control Products by Canadian Registrants, Year Ended September 30, 1968 - Concluded

Commodity		Quantity	Value
			dollars
Industrial insecticides (include materials used by industrial plants, warehouses, etc. not materials used by home owners) - Concluded			
31. Fumigants - Concluded			
(c) Carbon tetrachloride, carbon bisulphide, ethylene dichloride, ethylene dibromide alone or mixtures of them (including methyl bromide)	Imperial gallon	(6)	(6)
(d) Other fumigants (for insect control in stored products)	"	...	(6)
32. Powders and dusts (for industrial use only)			
(a) Chlordane insect powders	pound of product	(6)	(6)
(b) DDT insect powders (including those with pyrethrum)	"	(6)	(6)
(c) Insect powders (without DDT)	"	(6)	(6)
(d) Lindane (for vaporizers and fumigators)	pound of lindane	(6)	(6)
(e) Lindane dispensers:			
Continuous vaporization type	number of units	-	-
Non-continuous	"	(6)	(6)
Fumigation type	"	(6)	(6)
(f) Other powders and dusts (including insect smokes)		...	-
33. Mill and industrial sprays			
(i) Mill and industrial sprays (exclude aerosols):			
Space	Imperial gallon	29,072	208,597
Residual	"	3,384	32,907
(ii) Mill and industrial aerosols:			
Chlorinated hydrocarbon type (DDT, methoxychlor, etc.)	number of units	(6)	(6)
Other	"	59,110	148,132
34. Other industrial pesticides			
Liquids		...	498,637
Powders		...	(6)
35. All other industrial insecticides		...	(6)
Total industrial insecticides		...	1,569,991
Total all pest control products		...	65,689,759

(1) Confidential - Included with item 9 "All other agricultural insecticides".
(2) Confidential - Included with item 14 "All other agricultural fungicides".
(3) Confidential - Included with item 16 "All other agricultural livestock treatments".
(4) Confidential - Included with item 18 "All other agricultural herbicides".
(5) Confidential - Included with item 30 "All other garden and home products".
(6) Confidential - Included with item 35 "All other industrial insecticides".
... Figures not appropriate or not applicable.

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