

1982 INSPECTIONS OF

**FERTILIZER
PESTICIDE
AND FEED
PRODUCTS**

J. GORDON HANNA

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1982 INSPECTIONS OF
FERTILIZER, PESTICIDE AND FEED PRODUCTS

Data obtained by chemical analysis of officially collected samples of commercial feeds, fertilizers and pesticide formulations are contained in this report. The tables show the number of samples from each manufacturer (in parenthesis), the number of determinations made for each guaranteed ingredient, the number of deficiencies, and the average percent of claims for each component.

The deficiencies noted for feed samples are based on the permitted variations recommended by the Association of American Feed Control Officials, the investigational allowances for fertilizers are those of the Association of American Plant Food Control Officials, and the permissive guarantee variations suggested by the Association of American Pesticide Control Officials are used for pesticide formulations.

Data for 789 samples of feed representing 72 manufacturers, 155 samples of fertilizer representing 14 manufacturers and 282 samples of pesticide representing 63 manufacturers are summarized.

The feed and fertilizer laws are administered by the Commissioner of Agriculture. The pesticide law is under the direction of the Commissioner of Environmental Protection.

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J. Gordon Hanna, Chief Chemist

Feed Manufacturer	Number of Claims				Number Not Met			Average % of Claims		
	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Agway, Inc. (125)	125	125	125	375	1	0	0	108	143	61
Allen Products (1)	1	1	1	3	0	0	0	136	161	17
Alliance Foods (1)	1	1	1	3	0	0	0	125	151	79
Allied Mills (1)	1	1	1	3	0	0	0	105	153	76
American Crystal Sugar (2)	2	2	2	6	0	0	0	120	138	84
A & R Pet Food (3)	3	3	3	9	0	0	0	104	140	81
Beacon Milling (17)	17	17	17	51	1	0	0	103	142	66
Best Feeds & Farm Supplies (1)	1	1	1	3	0	0	0	124	177	28
BiAgri (5)	5	5	5	15	2	1	1	89	91	103
Binzo, Ltd (1)	1	1	1	3	0	0	0	101	100	73
Blue Star Foods (8)	8	8	8	24	0	0	0	127	161	67
Budget Pet Foods (2)	2	2	2	6	0	0	0	147	95	32
Cadillac Pet Foods (1)	1	1	1	3	0	0	0	107	127	56
Calo Pet Foods (7)	7	7	7	21	0	0	0	113	133	32
Carnation (42)	42	42	42	126	2	1	0	113	154	48
Cat Life Packing (1)	1	1	1	3	0	0	0	126	133	55
Central Connecticut Co-op (6)	6	6	6	18	1	0	0	101	130	66
Champion Valley Farms (16)	16	16	16	48	0	1	0	127	112	52
CHB Foods (1)	1	1	1	3	0	0	0	137	122	37
Con Agra Pet Div. (2)	2	2	2	6	0	1	0	107	108	36
Derby Feed (4)	4	4	4	12	0	0	0	106	184	53
8 in 1 Pet Products (2)	2	2	2	6	0	0	0	133	158	67
Federated Foods (5)	5	5	5	15	0	0	0	118	139	66
First National Stores (5)	5	5	5	15	0	0	0	129	162	57
Foster Canning (6)	6	6	6	18	0	0	0	153	177	47
General Foods (6)	6	6	6	18	0	0	0	109	114	40
Roy Goff (2)	2	2	2	6	0	0	0	97	210	38
Grand Union (2)	2	2	2	6	0	0	0	150	147	54
Great A & P Tea Co. (5)	5	5	5	15	0	0	0	118	170	91
Gro Kote (2)	2	2	2	6	0	0	0	107	182	143
Hartz Mountain (9)	9	9	9	27	0	0	0	114	140	57
Health Valley Natural Food (4)	4	4	4	12	0	0	0	112	228	31
Hills Div., Raviana Foods (4)	4	4	4	12	0	0	0	100	126	72
Independent Grocers Alliance (2)	2	2	2	6	0	0	0	119	109	25
International Multifoods (1)	1	1	1	3	0	0	0	104	103	84
I. F. Joseph (1)	1	0	1	2	0	-	0	110	-	74
Kitty Food (6)	6	6	6	18	0	0	0	130	151	54
K & L Feed Mill (29)	29	29	29	87	7	2	0	99	122	60
Laddie Boy Pet Food (6)	6	6	6	18	0	0	0	125	191	55
Lipton Pet Foods (3)	3	3	3	9	0	0	0	134	162	44
Marlboro Products (6)	6	6	6	18	0	0	0	124	161	66
Martin's Feed Mills (1)	1	1	1	3	0	1	0	103	89	63
Milk Specialties (1)	1	1	1	3	0	0	0	102	109	100
Monitor Sugar (1)	1	1	1	3	0	0	0	118	287	72
Murray Elevators (12)	12	12	12	36	0	0	0	104	165	26
Old Mother Hubbard (4)	4	4	4	12	2	0	0	97	108	80
Perk Foods (5)	5	5	5	15	0	0	0	170	190	48
Pro Pet (6)	6	6	6	18	0	0	0	107	162	34
Quaker Oats (3)	3	3	3	9	0	0	0	113	153	51
Ralston Purina (52)	52	52	52	156	2	0	0	114	177	58
Rangen (2)	2	2	2	6	0	0	0	112	142	26
Redi International (1)	1	1	1	3	0	0	0	103	148	3

Feed Manufacturer	Number of Claims				Number Not Met			Average % of Claims		
	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
The Reward Co. (1)	1	1	1	3	0	0	0	137	131	53
Ross-Wells/Beatrile (1)	1	1	1	3	0	0	0	101	108	14
Rytman Grain (7)	7	7	7	21	1	5	1	107	81	82
Shur Fine Eastern (5)	5	5	5	15	0	1	0	123	139	76
Star Kist (19)	19	19	19	57	0	2	0	127	144	28
Stop & Shop (15)	15	15	15	45	1	0	0	117	182	51
Strongheart Products (2)	2	2	2	6	0	0	0	150	156	49
Sunflower (2)	2	2	2	6	0	0	0	136	193	44
Superior Pet Products (1)	1	1	1	3	1	0	0	83	100	66
Sweet Life Products (8)	8	8	8	24	0	0	0	113	146	49
Tetra Werke (1)	1	1	1	3	0	0	0	104	167	26
United Co-op Farmers (86)	86	86	86	258	1	1	4	105	138	80
Universal Cooperative (3)	3	3	3	9	0	0	0	106	162	39
Vitakraft (2)	2	2	2	6	0	0	0	115	114	77
Wakefern Food (9)	9	9	9	27	0	0	0	112	165	39
Warner-Lambert (1)	1	1	1	3	0	1	0	124	51	49
Wm. S. Warren & Son (10)	10	10	10	30	0	0	0	106	146	73
Wayne, Continental Grain (13)	13	13	13	39	0	1	0	113	124	64
H. K. Webster (160)	160	160	160	480	1	1	1	109	123	70
Ziegler Bros (2)	2	2	2	6	0	0	0	104	193	37
(789)	789	788	789	2366	23	19	7	111	142	62

Percent of Claims Deficient: 2.1

Fertilizer Manufacturer	Number of Claims			Number Not Met		Average % of Claims	
	N	P ₂ O ₅ + K ₂ O	Total	N	P ₂ O ₅ + K ₂ O	N	P ₂ O ₅ + K ₂ O
Agrico (14)	14	26	40	1	18	104	84
Agricultural Products (3)	2	6	8	1	1	93	95
Agway (2)	24	56	80	1	3	104	109
Cadwell & Jones (2)	20	40	60	5	15	96	94
Clinton Nursery (7)	7	14	21	0	0	108	124
Espoma Co. (3)	3	6	9	0	0	104	124
Estech General (37)	36	74	110	15	27	94	104
Fer Mel (1)	1	2	3	0	0	99	110
C. Hart Seed (2)	2	4	6	0	1	100	109
Lebanon Chemical (4)	4	8	12	0	0	101	104
Lofts Pedigreed Seed Co. (1)	1	2	3	0	0	98	120
John D. Lyon (1)	1	2	3	0	0	98	96
Old Fox (29)	27	56	83	9	17	98	104
O. M. Scott (5)	5	10	15	1	0	98	106
(155)	147	306	453	33	82	99	103

Percent of Claims Deficient: 25

Mixed Fertilizer Distribution

July 1, 1981 - June 30, 1982

Tonnages of Fertilizer Materials and Mixed
Fertilizers Purchased During the Period of
July 1, 1981 - June 30, 1982

Grade	Tons
0-10-40	158
0-15-30	207
0-25-25	47
4-6-4	5922
5-10-5	1366
5-10-10	2238
5-20-20	46
7-7-7	41
8-16-16	50
10-6-4	2829
10-10-10	5711
10-20-10	676
10-20-20	470
12-4-8	136
14-14-14	51
15-8-12	934
15-10-10	1544
15-15-15	649
15-30-15	76
16-8-8	58
20-5-10	484
20-10-15	153
20-12-8	53
20-20-20	67
24-12-18	257
25-3-3	371
25-3-5	123
25-5-10	261
25-10-10	34
26-4-6	183
27-3-3	1218
30-10-10	29
	26442
Miscellaneous	19767
Total	46209

Chemical Nitrogen	
Ammonium nitrate	172
Ammonium sulfate	10
Calcium nitrate	125
Nitrogen solutions	167
Sodium nitrate	129
Urea	3537
Ureaform	59
Other nitrogen materials	12
	4211
Phosphates	
Ammonium phosphate	1318
Bonemeal	119
Phosphate rock	18
Superphosphate 20%	72
Superphosphate 40%	490
Other phosphate materials	8
	2025
Potash	
Muriate of potash	2333
Potassium carbonate	6
Potassium magnesium sulfate	7
Potassium nitrate	34
Potassium sulfate	10
Other potassium materials	4
	2394
Natural Organics	
Blood, dried	6
Cottonseed meal	172
Linseed meal	6
Manure	3981
Sewage	456
Tankage	1
	4622
Secondary and micronutrients	
Aluminum	2
Borax	26
Gypsum	82
Iron	1
Lime	2
Magnesium	62
Zinc	1
	176
Total	13,428
Commercial mixtures	46,209
Total	59,637

Pesticide Manufacturer	Pesticide	Number of Claims	Number Not Met	Average % of Claims
J & I Adikes (1)	Methoxychlor	1	0	98
Agway (20)	Amitrole	1	0	104
	Captan	2	0	105
	Carbaryl	4	0	105
	2,4-D	1	0	99
	Diazinon	3	0	105
	2-(2,4-Dichlorophenoxy)- propionic acid	1	0	102
	Kelthane	1	0	133
	Malathion	3	0	105
	Meta-Systox	1	0	100
	Methoxychlor	4	0	101
	Phenothrin	1	0	115
	Piperonyl butoxide	1	0	100
	Prometon	1	0	101
	Pyrethrins	1	0	105
	Resmethrin	1	0	103
	Rotenone	1	0	102
	Simazine	1	0	113
	Tetramethrin	1	0	114
	Zinc phosphide	1	1	74
Bell Laboratories, Inc. (1)	Zinc phosphide	1	0	133
Black Leaf Products (11)	Captan	2	0	98
	Carbaryl	1	0	100
	Copper	1	1	91
	2,4-D	1	0	97
	Diazinon	1	0	98
	Dicamba	1	0	104
	Kelthane	2	0	98
	Lindane	1	0	99
	Malathion	4	0	103
	Maneb	1	0	98
	Meta Systox	1	0	100
	Methoxychlor	4	0	99
Bonide Chemical Co. (24)	Aspon	1	0	102
	Banvel	2	0	106
	Baygon	1	0	105
	Benomyl	1	0	102
	Butoxythiocyano diethyl ether	1	0	106
	Captan	2	0	103
	Carbaryl	4	0	107
	Cygon	1	0	97
	2,4-D	1	0	111
	Diazinon	3	0	108
	Disyston	1	0	105
	Dursban	1	0	99
	Imidan	1	0	103
	Kelthane	2	0	100
	Malathion	4	0	104
	Methoxychlor	4	0	101
	Petroleum oil	1	0	95
	Thuram	2	0	101
	Zinc phosphide	1	0	101
Ced-o-Products Corp. (1)	Kerosene	1	0	191
Central Conn. Co-op Farmers Exchange, Inc.	Larvadex	1	1	64
C-H Products Corp. (1)	N-Octylbicycloheptene dicarboximide	1	0	97
	Piperonyl butoxide	1	0	98
	Pyrethrins	1	0	105

Pesticide Manufacturer	Pesticide	Number of Claims	Number Not Met	Average % of Claims
Chemical Industries, Inc. (1)	Diazinon	1	0	104
	Pyrethrins	1	0	101
Chevron Chemical Co. (32)	Acephate	3	0	101
	Ammonium sulfamate	1	0	102
	Baygon	2	0	106
	Captan	3	1	117
	Carbaryl	2	0	109
	Chlorothalonil	1	0	103
	Cyhexatin	1	0	103
	2,4-D	1	0	101
	Dacthal	1	0	99
	Diazinon	3	0	99
	Folpet	2	0	108
	Funginex	1	0	117
	Kelthane	3	0	102
	Lindane	1	0	100
	Malathion	3	1	95
	MCPP	2	0	99
	Methoxychlor	1	0	100
	Orthene	1	0	98
	Prometon	1	0	106
	Piperonyl butoxide	1	0	93
	Pyrethrins	2	0	98
	Resmethrin	4	0	100
	Rotenone	2	0	105
Sulfur	1	0	102	
Triforine	1	0	102	
Ciba-Geigy Corp. (8)	N-Cyclopropyl-1,3,5-triazine- 2,4,6-triamine	2	0	93
	2,4-D	1	0	102
	Diazinon	4	0	106
	Dicamba	1	0	100
	MCPP	1	0	106
	Pentachlorophenol	1	0	120
	Piperonyl butoxide	2	0	95
	Prometon	1	0	101
	Pyrethrins	1	0	112
	Clinipad Corp. (1)	Alkyldimethylbenzylammonium chloride	1	0
Connecticut Aerosols, Inc. (38)	Alkyldimethylbenzylammonium chloride	3	0	122
	Alkyldimethylethylbenzylammonium chloride	3	0	122
	d-trans-Allethrin	10	2	99
	Baygon	6	1	91
	Chlorpyrifos	2	0	101
	2,2-Dichlorovinyl dimethyl phosphate	7	0	104
	2-(1-Methylethoxy) phenol methyl carbamate	3	1	85
	MGK	4	2	73
	N-Octylbicycloheptene dicarboximide	2	0	98
	Phenothrin	17	4	99
	o-Phenylphenol	1	1	52
	Piperonyl butoxide	7	2	87
	Pyrethrins	2	0	99
	Sodium hypochlorite	2	2	57
	Tetramethrin	12	3	93
Vapona	1	0	95	
Crystalabs, Inc. (1)	Alkyldimethylbenzylammonium chloride	1	0	100
Dexol Industries (23)	Benomyl	1	0	101
	Carbaryl	4	0	107
	Copper	1	0	100
	Copper oleate	1	0	94
	Cycloheximide	1	0	93

Pesticide Manufacturer	Pesticide	Number of Claims	Number Not Met	Average % of Claims
(Dexol Industries Continued)	Cygon	1	0	99
	2,4-D	1	0	103
	Diazinon	1	0	98
	Dicamba	1	0	96
	DiSyston	1	0	130
	Dursban	2	1	87
	Karathane	1	0	100
	Kelthane	3	0	99
	Malathion	1	0	102
	Maneb	1	0	108
	MCPP	1	0	98
	Mineral oil	1	0	98
	Nicotine	1	0	114
	Pyrethrins	1	0	100
	Piperonyl butoxide	1	0	98
	Zineb	3	0	102
C. B. Dolge Co. (14)	Acids (hydrochloric, phosphoric and oxalic)	1	0	99
	Alkyldimethylbenzylammonium chloride	2	0	119
	Alkyldimethylethylbenzylammonion chloride	1	0	104
	o-Benzyl-p-chlorophenol	3	1	77
	Malathion	1	0	101
	Monuron	1	0	103
	o-Phenylphenol	1	0	84
	Piperonyl butoxide	4	0	100
	Pyrethrins	4	0	101
Dragon Chemical Corp. (1)	Malathion	1	0	101
E. I. DuPont de Nemours & Co. (1)	Oxamyl	1	0	105
Durvet, Inc. (1)	Zinc phosphide	1	0	139
J. T. Eaton & Co., Inc. (1)	2-Pivalyl-1,3-indandione	1	0	94
Evergreen Tree Service (1)	Sevin	1	0	82
Faesy & Besthoff (2)	Imidan	2	0	104
Farnam Co. (6)	Carbaryl	1	0	108
	DDVP	1	0	113
	N-Octylbicycloheptene dicarboximide	1	0	103
	Piperonyl butoxide	4	0	99
	Pyrethrins	4	0	106
	Rabon	1	0	103
Hopkins Agricultural Chemical Co. (1)	DDVP	1	0	106
Hofman Water Treating Co. (1)	Potassium N-methyl-dithio carbamate	1	0	176
Hub States Corp. (1)	N-(2-Quinoxaliny)-sulfanilamide	1	0	92
	Warfarin	1	0	104
Huntington Laboratories, Inc. (1)	Quaternary compounds	1	0	109
S. C. Johnson & Son, Inc. (7)	Allethrin	3	0	97
	Baygon	2	0	111
	DDVP	1	0	108
	N,N-Diethyl-m-toluamide	1	0	108
	Piperonyl butoxide	1	0	98
	Resmethrin	3	0	133
	Tetramethrin	1	0	107
Kenco Chemical & Manufacturing Corp. (1)	Dursban	1	0	103
Keystone Exterminating Co. (1)	Dursban	1	0	107

Pesticide Manufacturer	Pesticide	Number of Claims	Number Not Met	Average % of Claims
K-Mart Corp. (4)	Carbaryl	1	0	99
	2,4-D	1	0	107
	Diazinon	1	0	102
	Dicamba	1	0	95
	Dursban	1	0	101
	MCPP	1	0	95
Lebanon Chemical Corp. (1)	Betasan	1	0	105
Masti Kure Products Co. (1)	Rotenone	1	0	98
Monsanto Corp. (1)	Glyphosate	1	0	100
Morgro Chemical Co. (1)	n-Pentylvalerate	1	0	99
Natra Pet, Inc. (3)	Baygon	1	1	68
	N-Octylbicycloheptene dicarboximide	1	1	0
	Piperonyl butoxide	3	2	31
	Pyrethrins	3	2	32
Nott Manufacturing Co. (2)	Zinc phosphide	2	0	129
Nutrico Co. (1)	Dicamba	1	0	89
	Dichlorophenoxyacetic acid	1	0	96
	MCPP	1	0	89
Osmose Wood Preserving Co. of America (3)	Aldrin	1	0	97
	Sodium fluoride	2	0	99
	Sodium methyldithiocarbamate	1	0	100
Parrott Chemical Co. (4)	2,4-D	1	0	103
	Dichlone	1	0	94
	Dursban	1	0	94
	Malathion	1	0	107
	Methoxychlor	1	0	100
	Piperonyl butoxide	1	0	88
	Pyrethrins	1	0	96
	Sevin	1	0	102
Penguin-Down Co. (1)	Pyrethrins	1	0	94
Pest Control Products of Connecticut (2)	Diazinon	1	0	101
	Piperonyl butoxide	1	0	98
	Pyrethrins	1	0	96
Pharmacial Research Labs (2)	N-Octylbicycloheptene dicarboximide	1	0	96
	Piperonyl butoxide	2	0	96
	Pyrethrins	2	0	96
Polychem Corp. (1)	Quaternary Compounds	1	0	103
Pratt Gabriel Div., Miller Chemical & Fertilizer Corp. (15)	Benomyl	1	0	99
	Captan	1	0	101
	Carbaryl	1	0	104
	Chlordane	1	0	100
	2,4-D	1	0	104
	Diazinon	1	0	110
	Dimethoate	1	0	103
	DiSyston	1	0	130
	Kelthane	1	0	101
	Lindane	1	0	104
	Malathion	1	0	102
	Methoxychlor	2	0	100
	Petroleum oil	1	0	101
	Piperonyl butoxide	1	0	97

Pesticide Manufacturer	Pesticide	Number of Claims	Number Not Met	Average % of Claims
Pratt Gabriel Div., Miller Chemical & Fertilizer Corp. - continued	Prometon	1	0	106
	Pyrethrins	1	0	102
	Resmethrin	1	0	102
	Rotenone	1	0	101
Residex Corp. (2)	Carbaryl	1	0	97
	N-Octylbicycloheptene dicarboximide	1	0	90
	Piperonyl butoxide	2	0	97
	Pyrethrins	2	0	96
Rhodia, Inc. (1)	d-trans-Allethrin	1	0	98
	Resmethrin	1	0	107
Roebic Laboratories, Inc. (1)	Copper sulfate	1	0	96
Ron Cari Industries, Inc. (1)	3-(Acetonylbenzyl)-4-hydroxy coumarin	1	0	97
Savol Bleach Co. (1)	Sodium hypochlorite	1	1	77
Science Products, Inc. (8)	Benomyl	1	0	102
	Carbaryl	1	0	106
	DiSyston	1	0	130
	Kelthane	2	0	104
	Malathion	1	0	99
	Methoxychlor	1	0	100
	Rotenone	1	0	99
Seacoast Labs, Inc. (5)	Carbaryl	2	0	101
	Diazinon	1	0	110
	Malathion	1	0	99
	Methoxychlor	1	0	104
Stauffer Chemical Co. (1)	Eptam	1	0	90
Union Carbide Co. (1)	Carbaryl	1	0	101
Uniroyal Chemical Co. (4)	Chlorfurenol	1	0	106
	Propargite	3	0	101
United Organics, Inc. (1)	1,2-Dibromo-2,4-dicyanobutane	1	0	98
United States Chemical Corp. (2)	Alkylbenzylammonium chloride	1	0	103
Upjohn Co. (2)	2,6-Dichloro-4-nitroaniline	1	0	101
	N,N-Dimethyldiphenylacetamide	1	0	101
Waltham Chemical Co. (1)	Piperonyl butoxide	1	0	96
	Pyrethrins	1	0	117
Water Consultant Corp. (1)	Potassium-N-methylthiocarbamate	1	0	105
Whitmire Research Laboratories (1)	Diazinon	1	0	109
Why Not Industries (1)	o-Isopropoxyphenylmethyl carbamate	1	0	101
	N-Octylbicycloheptene dicarboximide	1	0	97
	Piperonyl butoxide	1	0	98
	Pyrethrins	1	0	95
Woolfolk Chemical Works, Inc. (2)	Amitrol	1	0	99
	Ferbam	1	0	116
(282)		430	32	100

Percent of claims deficient: 7.5