

1975 INSPECTIONS OF

**FERTILIZER
PESTICIDE
AND FEED
PRODUCTS**

J. Gordon Hanna

1975 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 tolerances of 0.75% for protein and fiber and 0.25% for fat. 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 681 samples of feed representing 69 manufacturers, 376 samples of fertilizer representing 54 manufacturers and 252 samples of pesticide representing 52 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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Feed Manufacturer	Number of Claims				Number Not Met			Average % of Claims		
	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Agway (62)	61	61	61	183	1	0	0	110	139	72
Albers Milling (3)	3	3	3	9	0	0	0	104	156	65
Allen Products (9)	9	9	9	27	0	1	0	115	141	73
Allied Mills (26)	26	26	26	78	0	1	0	111	133	67
American Crystal Sugar (1)	1	1	1	3	0	0	0	120	180	81
Armour-Dial (2)	2	2	2	6	0	0	0	115	197	77
Barber and Bennett (3)	3	3	3	9	0	0	0	103	120	79
Best Feeds and Farm Supplies (2)	2	2	2	6	1	0	0	107	152	54
Blue Seal Mill (4)	4	4	4	12	0	1	0	101	135	74
Borden (1)	1	1	0	2	0	0	-	108	104	-
Brockville Chemical (1)	1	0	0	1	0	-	-	100	-	-
Bumble Bee Sea Foods (2)	2	2	2	6	0	0	0	123	125	30
Cadillac Pet Foods (9)	9	9	9	27	0	0	0	111	158	74
Calo Pet Foods (1)	1	1	1	3	0	0	0	101	152	40
Carnation (32)	32	32	32	96	0	0	0	113	152	45
Central Connecticut Co-op Farmers (32)	32	32	32	96	1	0	0	107	132	80
Champion Valley Farms (5)	5	5	5	15	0	0	0	122	166	67
Charbone (1)	1	1	1	3	0	0	0	100	130	113
Coca Cola (1)	1	1	1	3	0	0	0	119	174	51
Jim Dandy (1)	1	1	1	3	0	0	0	109	289	49
Derby Feed (2)	2	2	2	6	1	0	0	93	135	57
8 in 1 Pet Products (6)	6	6	6	18	1	0	0	118	149	76
John W. Eschelma & Sons	36	36	36	108	0	0	0	112	146	67
Farines Phenix (1)	1	1	1	3	0	0	0	107	127	71
Farm Bureau (15)	14	14	14	42	2	1	0	101	121	75
First National Stores (17)	17	17	17	51	1	3	0	107	132	68
R. T. French (1)	1	1	1	3	0	0	0	137	173	25
Geissler Pet Products (3)	3	3	3	9	0	1	0	106	130	84
General Foods (15)	15	15	15	45	0	1	0	117	149	73
Grand Union (19)	19	19	19	57	1	1	3	108	148	94
Great A & P (18)	18	18	18	54	0	0	0	111	158	70
Hartz Mountain (9)	9	9	9	27	0	2	0	115	141	73
E.C. & W.L. Hopkins (15)	14	14	14	42	0	0	0	105	134	66
Kal Kan Foods (6)	6	6	6	18	0	0	0	115	107	37
K & L Feeds (3)	3	3	3	9	0	0	0	109	103	88
Lipton Pet Foods (3)	3	3	3	9	0	0	0	119	103	62
Liv-A-Snaps (1)	1	1	1	3	0	0	0	122	126	24
Long Life Aquarium Products (2)	2	2	2	6	0	0	0	108	324	44
Maple Leaf Mills (2)	2	2	2	6	0	0	0	106	161	93
Movar Shrimp and Oyster (1)	1	1	1	3	0	1	0	115	75	50
Milk Specialties (1)	1	1	1	3	0	0	0	110	149	100
Nabisco (7)	7	7	7	21	0	0	0	111	137	54
National Alfalfa Dehydrating and Milling (1)	1	1	1	3	0	0	0	103	309	98
National Pet Food (9)	9	9	9	27	1	1	0	106	124	76
New England Fish (1)	1	1	1	3	0	0	0	125	135	40
L. M. Newfields (1)	1	1	1	3	0	0	0	112	88	84
Old Fox (1)	1	1	1	3	0	0	0	109	340	46
Old Mother Hubbard (2)	2	2	2	6	0	0	0	121	220	45

Feed Manufacturer	Number of Claims				Number Not Met			Average % of Claims		
	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Perk Foods (3)	3	3	3	9	0	0	0	111	187	91
Pet Kitchens (1)	1	1	1	3	0	0	0	125	181	110
Quaker Oats (13)	13	13	13	39	0	1	0	117	160	84
Ralston Purina (73)	73	73	73	219	0	0	0	108	156	58
Redi Div. Thermova Inds. (1)	1	1	1	3	0	0	1	141	1030	225
Red Rose (25)	25	25	25	75	0	0	0	109	143	71
Rytman (10)	10	10	10	30	0	0	0	107	119	88
Shelabars (1)	1	1	1	3	0	0	0	111	99	67
Spangler's Flour Mills (2)	2	2	2	6	0	0	0	108	144	62
Starkist Foods (19)	19	19	19	57	1	1	0	106	189	39
Stop & Shop (12)	12	12	12	36	1	2	0	106	124	53
Strongheart Products (3)	3	3	3	9	0	1	0	106	138	91
Supermarkets General (25)	25	25	25	75	0	3	4	110	152	124
Tetra Werke (2)	2	2	2	6	0	0	0	110	164	31
Topco Associates (5)	5	5	5	15	0	0	0	112	142	48
Triumph Pet Food (1)	1	1	1	3	0	0	0	105	110	53
United Co-op Farmers (14)	14	14	14	42	2	0	0	104	129	71
Wakefern Food (13)	13	13	13	39	1	1	0	105	130	78
Wardley Products (5)	5	5	5	15	1	0	0	103	316	50
Wm Warren & Son (2)	2	2	2	6	0	0	0	102	118	98
H. K. Webster (55)	55	55	55	165	0	0	0	108	135	74
(681)	678	677	676	2031	16	23	8	109	147	70

Percent of claims deficient: 2.3

Fertilizer Manufacturer	Number of Claims			Number Not Met		Average % of Claims			
	N	P ₂ O ₅ ⁺		N	P ₂ O ₅ ⁺		N	P ₂ O ₅ ⁺	
		K ₂ O	Total		K ₂ O	Total		K ₂ O	Total
Agrico Chemical (17)	15	32	47	2	13	113.1	96.2		
Agricultural Products (1)	1	2	3	0	0	111.5	108.6		
Agway (46)	44	78	122	0	13	106.3	106.3		
Atlas Fish Fertilizer (1)	1	2	3	0	0	97.2	116.5		
Black Leaf Products (1)	1	2	3	0	0	111.0	108.0		
Cadwell and Jones (11)	10	20	30	2	5	102.3	101.1		
Chevron (6)	6	12	18	0	0	112.8	111.9		
Chilean Nitrate Sales (2)	2	0	2	0	-	99.0	-		
Clinton Nursery (4)	4	8	12	0	1	111.5	105.1		
Continental Peat (1)	1	2	3	0	0	105.6	110.0		
Corenco (16)	15	29	44	1	4	104.9	107.7		
The Dram Co. (1)	1	2	3	0	0	110.9	146.2		
DuPont (1)	1	0	1	0	-	101.1	-		
Farmingdale Garden Labs (1)	1	2	3	0	1	107.3	83.5		
Fer-Mel (5)	5	8	13	0	1	104.0	99.2		
Great A & P (3)	3	6	9	0	1	105.2	107.7		
Green Thumb (1)	1	2	3	0	0	109.2	107.2		
Charles C. Hart Seed (6)	6	12	18	0	0	115.3	116.2		
H Bar M (1)	1	2	3	0	0	140.0	140.0		
Hercules (1)	1	0	1	0	-	98.9	-		
Heritage House (4)	4	8	12	0	0	117.9	104.9		
A.H. Hoffman (2)	2	4	6	0	1	106.0	101.3		
Hytrous (2)	2	4	6	1	0	97.6	184.7		
Hydroponics (2)	2	4	6	0	0	109.9	108.0		
International Spike (1)	1	2	3	0	0	100.8	148.5		
Judd Ringer (2)	2	4	6	0	0	116.6	118.1		
Kerr McGee (84)	76	165	241	16	38	101.3	104.6		
Koos (5)	5	10	15	0	4	135.5	120.9		
Lebanon (8)	8	16	24	3	2	109.5	115.6		
Leisure Group (1)	1	2	3	0	0	110.0	102.4		
Luzerne (4)	4	8	12	0	1	100.6	109.0		
3M (2)	2	4	6	0	0	105.7	101.8		
Wilson & George Meyer (2)	2	0	2	0	-	99.1	-		
Nassau Gardens (9)	9	18	27	0	0	117.6	121.8		
Old Fox (41)	38	77	115	15	29	121.2	105.1		
Robert B. Peters (2)	2	4	6	0	0	104.0	105.8		
Plantabbs (3)	3	6	9	0	0	113.8	117.3		
Plant Marvel (1)	1	2	3	0	0	118.0	106.2		
Plant Products (1)	1	2	3	0	0	102.4	101.4		
Premier Peat Moss (2)	2	4	6	0	0	109.6	127.5		
Ra-Pid Gro (1)	1	2	3	0	0	100.0	106.8		
Rockland Chemical (1)	1	2	3	0	0	116.2	129.5		
Ross Daniels (1)	1	2	3	0	1	126.4	99.0		

Fertilizer Manufacturer	Number of Claims			Number Not Met		Average % of Claims			
	N	P ₂ O ₅ ⁺		N	P ₂ O ₅ ⁺		N	P ₂ O ₅ ⁺	
		K ₂ O	Total		K ₂ O	Total		K ₂ O	Total
S & D Products (1)	1	2	3	0	0	121.3	116.3		
Schultz Co. (1)	1	2	3	0	1	118.2	94.5		
O. M. Scott (7)	7	14	21	0	2	103.4	103.4		
Sears (6)	6	12	18	0	1	118.4	107.9		
Sewerage Commission of Milwaukee (1)	1	1	2	0	0	108.0	98.0		
Sterns Nurseries (5)	5	10	15	0	0	105.6	104.6		
Stim U Plant (1)	1	2	3	0	1	95.2	94.1		
Sudbury (1)	1	0	1	0	-	102.9	-		
Swift Chemical (12)	12	24	36	4	4	102.2	115.8		
Swiss Farms (3)	3	6	9	0	0	133.0	108.3		
Vigoro (6)	6	12	18	1	1	105.1	134.5		
(351)	334	656	990	45	125	108.6	108.2		

Percent of claims deficient: 17.2

Mixed Fertilizer Distribution
July 1, 1974 - June 30, 1975

<u>Grade</u>	<u>Tons</u>
0-15-30	306
5-10-5	801
5-10-10	3,759
10-6-4	2,235
10-10-10	6,915
10-20-10	693
10-20-20	563
15-15-15	458
15-30-15	47
20-4-10	54
20-10-5	208
20-20-20	32
23-7-7	2,429
30-10-10	24
Miscellaneous*	19,587
Total	38,111

*Small amounts or reported by
fewer than three manufacturers

Secondary and Minor Elements

Manufacturer	Element Claimed	Number Of Claims	Number Not Met	Average % Of Claims	
Agrico (1)	Magnesium	1	0	396	
Agway (4)	Boron	2	0	100	
	Magnesium	4	0	132	
	Zinc	1	1	55	
Chilean Nitrate (1)	Sodium	1	0	101	
Corenco (2)	Magnesium	2	0	117	
Charles C. Hart Seed (1)	Magnesium	1	0	217	
Kerr McGee (10)	Calcium	1	0	98	
	Magnesium	9	1	124	
Lebanon (1)	Iron	1	0	1565	
Nassau Gardens (1)	Boron	1	0	250	
	Calcium	1	0	250	
	Copper	1	0	130	
	Iron	1	0	300	
	Manganese	1	0	126	
	Sulfur	1	0	100	
	Zinc	1	0	160	
Old Fox (3)	Magnesium	3	0	421	
Sears (1)	Boron	1	1	55	
	Copper	1	1	54	
	Iron	1	0	180	
	Magnesium	1	0	333	
	Manganise	1	0	140	
	Zinc	1	0	100	
		(25)	39	4	204

Percent of claims deficient: 10.3

Tonnages of Fertilizer Materials and Mixed
Fertilizers Purchased During the Period of
July 1, 1974 - June 30, 1975

Chemical Nitrogen

Ammonium nitrate	1,940
Ammonium sulfate	4
Calcium nitrate	25
Nitrate of soda	23
Urea	3,426
Urea-form	21
	<u>5,439</u>

Organics

Castor pomace	30
Cottonseed meal	6
Dried blood	6
Fish emulsion	52
Dried manures	3,803
Sewage sludge	1,065
Tankage	18
	<u>4,980</u>

Phosphates

Ammonium phosphate	1,117
Bonemeal	41
Diammonium phosphate	1
Superphosphate 20%	180
Superphosphate 40%	730
	<u>2,069</u>

Potash

Muriate of potash	2,568
Nitrate of potash	1
Nitrate of soda-potash	1
Sulfate of potash-magnesia	38
	<u>2,608</u>

Secondary and micronutrients

Boron	15
Iron	1
Sulfur	12
	<u>28</u>

Mixed fertilizers

Commercial mixtures	38,111
Special mixtures for tobacco	5,304
	<u>43,415</u>

Total 58,539

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
Acme Insecticide Division Sherwin Williams Co. (1)	Zineb	1	0	99
Agricultural Products Co. (5)	Captan	2	1	89
	Carbaryl	1	0	101
	Chlordane	2	0	105
	Malathion	2	0	101
	Methoxychlor	1	0	100
	Sulfur	1	0	100
	Zineb	1	0	104
Agway, Inc. (13)	Ammonium sulfamate	1	0	101
	Captan	2	0	99
	Carbaryl	2	0	102
	Chlordane	1	0	98
	Ethion	1	0	115
	Folpet	1	0	99
	Kelthane	2	0	106
	Malathion	3	2	92
	Meta-Systox R	1	0	133
	Methoxychlor	3	0	98
	Prometone	1	0	104
	Pyrethrins	1	0	101
	Resmethrin	1	0	Present
	Rotenone	1	0	112
Amchem Products, Inc. (3)	Amiben	1	0	108
	Amitrol	2	0	102
Black Leaf Products Co. (27)	Captan	3	1	80
	Carbaryl	6	0	103
	Chlordane	5	0	99
	2,4-D	1	0	106
	Dacthal	1	0	98
	Diazinon	1	0	101
	Dicamba	1	0	99
	Karathane	1	0	96
	Kelthane	1	0	100
	Lindane	1	0	100
	Malathion	3	0	96
	Maneb	2	0	102
	Maneb & Zineb	1	0	100
	Methoxychlor	2	0	98
	Octylammonium methanearsonate	1	0	98
	Pentachlorophenol	1	0	103
	Pyrethrins	4	0	99
	Rotenone	1	0	98
	Silvex	1	0	105
Bonide Chemical Co. (25)	Ammonium sulfamate	1	0	101
	Benomyl	1	0	100
	Captan	2	0	101
	Carbaryl	12	0	100
	Chlordane	3	0	103
	Copper	2	0	97
	Diazinon	1	0	100
	Eptam	1	0	101
	Folpet	2	0	98
	Karathane	1	0	100
	Kelthane	2	0	100
	Lindane	1	0	100
	Malathion	6	0	101
	Maneb	1	0	108
	Methoxychlor	3	0	105
	Rotenone	1	0	110
	Ryanodine alkaloid	1	0	110

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
Boyle-Midway, Inc (7)	DDVP	3	0	101
	N,N-Diethyl-m- toluamide	1	0	95
	Pyrethrins	2	0	103
	Resmethrin	1	0	Present
Chase Product Co. (1)	Sodium arsenate	1	0	115
Chevron Chemical Co. (27)	Captan	3	0	109
	Carbaryl	4	0	102
	Chlordane	3	0	103
	Copper	1	1	60
	2,4-D	2	0	99
	2,4-D + diethanolamine salt of propionic acid	1	0	109
	Diazinon	2	0	120
	Dodecylammonium methanearsonate	1	0	105
	Folpet	2	0	102
	Kelthane	1	0	103
	Lindane	1	0	101
	Malathion	2	0	101
	Mesuroi	1	0	119
	Metaldehyde	1	0	102
	Methoxychlor	2	0	100
	Paraquat	1	0	109
	Polysulfides	1	0	100
	Pyrethrins	2	0	104
	Resmethrin	1	0	Present
	Rotenone	3	0	116
Silvex	3	0	103	
Sulfur	1	0	101	
Ciba-Geigy Corp. (8)	Diazinon	5	1	98
	Folpet	1	0	100
	Methoxychlor	1	0	96
	Pyrethrins	3	0	99
Combe, Inc. (1)	Carbaryl	1	0	100
	Pyrethrins	1	0	100
The de-Con Co. (4)	d-trans-Allethrins	2	0	105
	Methoxychlor	1	0	98
	Warfarin	1	0	102
DeMert and Dougherty, Inc. (1)	N,N-diethyl-meta- toluamide	1	0	106
Elanco Products Co. (3)	Captan	1	0	108
	2,4-D	1	0	99
	Malathion	1	0	99
	Methoxychlor	2	0	98
Encap Products Corp. (1)	Mesuroi	1	0	116
Faesy and Besthoff, Inc. (1)	Carbaryl	1	0	101
Farmingdale Garden Laboratories (4)	Carbaryl	1	0	102
	Chlordane	2	0	98
	Copper	1	0	99
	Rotenone	1	0	107

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
W. T. Grant Co. (2)	Carbaryl	1	1	60
	Chlordane	1	0	103
	Maneb	1	1	0
The Great Atlantic & Pacific Tea Co. (2)	Pyrethrins	1	0	102
	Resmethrin	1	0	Present
Heritage House Products (1)	Carbaryl	1	0	96
	Daconil	1	0	101
	Karathane	1	0	94
Gaston Johnston Corp. (1)	Diazinon	1	0	97
	Malathion	1	0	110
S. C. Johnson and Son, Inc. (10)	d-trans-Allethrins	1	0	100
	DDVP	1	0	97
	N,N-diethyl-meta- toluamide	4	0	104
	Perthane	1	0	100
	Pyrethrins	2	0	93
	Tetramethrin	1	0	114
Lethelin Products Co. (1)	Lindane	1	0	98
Miller-Morton Co. (3)	Carbaryl	1	0	103
	Pyrethrins	2	0	96
Nippon Kado, Inc. (1)	Allethrin	1	0	101
	Pyrethrin	1	0	Present
Nott Manufacturing Co. (2)	Lindane	1	0	98
	Silvex	1	0	99
The Nu-Method Pest Control Service (1)	Diazinon	1	0	96
	Pyrethrins	1	1	46
John Opits, Inc. (1)	Pyrethrins	1	0	100
The Parrott Chemical Co. (6)	Carbaryl	2	0	102
	Chlordane	2	0	106
	Copper	1	0	101
	Diazinon	1	0	96
	Kelthane	1	0	87
	Maneb	1	1	63
	Pyrethrins	2	0	96
	Rotenone	1	0	94
	Sulfur	1	0	105
Pennwalt Corp. (1)	Endothol	1	0	101
Plantabbs Corp. (1)	Malathion	1	0	113
	Pyrethrins	1	0	91
	Rotenone	1	0	100
B. G. Pratt Division (25)	Captan	1	0	97
	Carbaryl	4	0	103
	Chlordane	3	0	103
	Copper	1	0	100
	Diazinon	2	0	100
	Folpet	1	0	92
	Kelthane	5	0	107
	Lindane	2	0	99
	Maneb	2	1	82

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
B. G. Pratt Division (25)	Malathion	3	2	87
	Methylnonyl ketone	1	0	105
	Methoxychlor	4	0	99
	Pyrethrins	5	0	98
	Resmethrin	1	0	Present
	Rotenone	3	0	98
	Sulfur	2	0	103
Pulvex Div., Cooper USA (2)	Captan	1	1	43
	Carbaryl	1	0	108
	Lindane	1	0	95
	Malathion	1	1	61
Ralston Purina Co. (8)	Captan	1	1	76
	Carbaryl	3	0	101
	Chlordane	1	0	104
	Diazinon	1	0	102
	Dimethoate	1	0	103
	Karathane	1	0	99
	Malathion	2	1	80
	Pival	1	0	102
	Zineb	3	0	98
Realex Corp. (2)	Diazinon	1	0	112
	Pyrethrins	2	0	106
	Resmethrin	1	0	Present
Rexall Drug Co. (2)	Pyrethrins	1	0	102
	Resmethrin	1	0	Present
Rite-Off Corporation (1)	Tetramethrin	1	0	96
Rockalnd Chemical Co. (4)	Ammonium sulfamate	1	0	99
	Ferbam	1	0	99
	Pyrethrins	2	0	1071
	Rotenone	1	0	94
Ross Daniels, Inc. (1)	Chlordane	1	0	98
Science Products Co. (5)	Carbaryl	1	1	74
	Kelthane	2	0	107
	Malathion	1	0	97
	Maneb	1	0	97
	Zineb	1	0	107
O. M. Scott & Sons, Inc. (1)	Trifluralin	1	0	100
Seacoast Laboratories, Inc. (11)	Carbaryl	3	0	102
	Chlordane	3	0	102
	Diazinon	1	0	97
	Kelthane	1	0	106
	Malathion	1	0	103
	Methoxychlor	1	0	100
	Pyrethrins	2	1	53
	Rotenone	3	0	103
	Zineb	1	0	111
	Sears Roebuck & Co. (8)	Carbaryl	3	0
Chlordane		1	0	103
Copper		1	0	87
2,4-D _ Dicamba		1	0	108
Methanearsonate		1	0	101
Methylnonyl ketone		1	0	97
Pyrethrins		1	0	99
Rotenone		2	0	100

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
Senoret Chemical Co. (1)	Sodium arsenate	1	0	106
Shell Chemical Co. (3)	Allethrin	1	0	120
	Chlorpyrifos	1	0	112
	Methoxychlor	1	0	100
	Vapona	1	0	100
Sherwin Williams Co. (1)	Allethrin	1	0	100
Swift Chemical Corp. (3)	Carbaryl	2	0	103
	Maneb	1	0	114
	Rotenone	1	0	109
	Sulfur	1	0	105
	Zineb	1	0	105
Thuron Industries, Inc. (1)	Vapona	1	0	103
Union Carbide Corp. (3)	N,N-diethyl-meta- toluamide	1	0	98
Walgren Laboratories, Inc. (2)	Diazinon	1	0	112
	Pyrethrins	1	0	96
Whitmire Research Lab. Inc. (1)	Pyrethrins	1	0	103
F. W. Woolworth (2)	Malathion	1	0	97
	Methoxychlor	1	0	96
(252)		361	19	105

Percent of claims deficient: 5.3

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