

COMMERCIAL FEEDING STUFFS

Report for 1965

J. GORDON HANNA



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The work represented by this report was performed under the direction of H. J. Fisher, Chief Chemist, retired in 1966 and presently Chemist Emeritus. Analytical work was performed by Charles Hahn, Helen Kocaba, Richard Merwin and Werner Mueller. Biological assays were under the direction of Lester Hankin. Microscopic examinations were by Lois Hornig. R. Richard Nichols performed the sampling and Frank Lescothe the sample preparations. The report was prepared with the assistance of Bernice Lindgren, secretary, and Marilyn Fishbone, typist.

The annual feed report for 1965 is issued in a different form from that customarily issued in previous years. It is designed to aid in the comparison among the relative reliabilities of the different manufacturers and the analytical results for individual samples are not listed. The report is divided into three tables. In the first table are listed the number of samples from each manufacturer analyzed for protein, fat, and fiber; the number of deficiencies; and the average per cent of claim for each component. Because the fiber claims are maxima, the values for per cent of claims are less than 100 if the guarantees are met. The same type of data for vitamin carriers is listed in the second table and for medicants in medicated feed in the third table. The results for a total of 732 samples are summarized.

Care must be exercised in making comparisons based on the per cent claims listed which involve manufacturers represented by few samples. These data are less reliable than those for manufacturers represented by numerous samples. Accumulated data from successive bulletins should provide better bases for comparisons in such cases.

The deficiencies noted were based on tolerances of 0.75 per cent for protein and fiber, 0.25 per cent for fat, and 20 per cent of guarantee for drugs.

COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTIES

Manufacturer	No. of Samples	No. of guaranties				Samples deficient			Average % of claims		
		Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Agway, Inc.	76	76	76	76	228	3	0	1	108.2	147.1	74.2
Albers Milling Co.	6	6	6	6	18	0	0	0	106.3	138.1	77.6
Allied Mills, Inc.	3	3	3	3	9	0	0	0	125.4	167.9	68.0
Amburgo Mfg. Co., Inc.	1	1	1	1	3	0	0	0	106.3	189.7	19.5
American Crystal Sugar Co.	1	1	1	1	3	0	0	0	112.5	213.3	85.1
American Cyanamid Co.	2	1	1	0	2	0	0	0	100.0	100.5	----
American Feed Co.	1	1	1	1	3	0	0	0	113.2	110.1	73.0
American Maize-Products Co.	1	1	1	1	3	0	0	0	149.0	349.0	10.7
Atlantic Processing Co.	1	1	1	1	3	0	0	0	115.8	158.0	11.7
Beacon Feeds	23	22	23	22	67	0	0	0	104.6	129.6	71.1
The Berkman Grain Co.	9	9	9	9	27	0	0	0	101.2	137.6	76.8
Bloomfield Farmers Exchange, Inc.	2	2	2	2	6	1	0	0	101.6	113.2	72.2
The Borden Co.	1	1	1	1	3	0	0	0	532.6	214.5	50.0
Brooklawn Grain & Feed Co.	2	2	2	2	6	0	0	0	105.7	127.2	68.6
Brown-Forman Distillers Corp.	2	2	2	2	6	0	1	0	116.1	89.3	86.7
The Buckeye Cellulose Corp.	1	1	1	1	3	0	0	0	102.5	120.0	90.9
Camden Grain Co.	1	1	1	1	3	0	0	0	112.5	111.3	68.2
Canada & Dominion Sugar Co. Ltd.	1	1	1	1	3	0	0	0	135.7	346.7	86.0
The A. B. Caple Co.	1	1	1	1	3	0	0	0	114.7	210.0	92.5
Central Conn. Co-op Farmers' Association, Inc.	14	14	14	14	42	0	2	0	104.6	116.0	84.5

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COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTIES

Manufacturer	No. of Samples	No. of guaranties				Samples deficient			Average % of claims		
		Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Central Soya	21	21	21	21	63	1	0	0	105.5	211.0	82.1
Clinton Corn Processing Co.	1	1	1	1	3	0	0	0	108.1	235.0	92.7
Connecticut Bi-Products, Inc.	4	4	3	2	9	0	0	0	104.6	314.6	33.7
Consolidated Mills, Inc.	1	1	1	1	3	0	0	0	111.7	136.7	79.0
Consolidated Rendering Co.	2	2	2	2	6	0	0	0	99.6	138.0	64.8
Corn Products Co.	1	1	1	1	3	0	0	0	109.5	274.0	69.0
Country Best Foods, Agway, Inc.	1	1	1	1	3	0	0	0	101.2	111.1	73.8
Dawnwood Farms, Inc.	1	1	1	1	3	0	0	0	100.0	130.2	89.0
Derby Feed Store	4	3	3	3	9	0	0	0	108.2	111.0	75.8
Dominion Malting Co. Ltd.	1	1	1	1	3	1	0	1	97.2	158.0	148.5
Dowagiac Milling Co.	2	2	2	2	6	0	0	0	123.1	122.3	78.1
John W. Eshelman & Sons	36	36	36	36	108	0	0	0	111.7	164.9	79.6
Farm Bureau Association	10	10	10	10	30	0	0	0	109.4	116.4	87.8
Farmers Feed Co.	1	1	1	1	3	0	0	0	102.9	133.3	72.5
Florida Citrus Cannery Cooperative	1	1	1	1	3	0	0	0	112.5	179.5	88.2
Fruen Milling Co.	1	1	1	1	3	0	0	0	110.0	120.4	75.3
Gloucester By Products, Inc.	1	1	1	1	3	0	0	0	115.0	177.2	37.0
Golden Gem Growers, Inc.	1	1	1	1	3	0	0	0	100.0	196.0	94.4
The Great Atlantic & Pacific Tea Co., Inc.	1	1	1	1	3	0	0	0	107.5	133.3	88.7

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COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTIES

Manufacturer	No. of Samples	No. of guaranties				Samples deficient			Average % of claims		
		Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Hales & Hunter Co.	22	22	22	22	66	0	0	0	110.8	155.5	71.8
Harris Milling Co.	1	1	1	1	3	0	0	1	110.7	155.4	135.3
Hayward, Inc.	1	1	1	1	3	0	0	0	107.5	183.0	100.3
H.P. Hood & Sons, Inc.	1	1	1	1	3	0	0	0	107.3	100.7	77.6
E.C. & W.L. Hopkins, Inc.	3	2	2	2	6	0	0	0	107.2	125.6	83.5
Illinois Cereal Mills, Inc.	1	1	1	1	3	0	0	0	107.5	116.8	67.5
International Cheese Co., Inc.	1	1	0	1	2	0	0	0	113.6	-----	42.0
International Milling Co., Inc.	1	1	1	1	3	0	0	1	124.1	140.0	119.2
The William Kelly Milling Co.	1	1	1	1	3	0	0	0	113.3	112.8	72.8
Kellogg Co. of Canada, Ltd.	1	1	1	1	3	0	0	0	112.5	118.6	90.9
Keystone Dehydrators	1	1	1	1	3	0	1	1	100.0	57.0	104.1
Kraft Foods	1	1	1	1	3	0	0	0	110.5	165.1	85.1
Krause Milling Co.	1	1	1	1	3	0	0	0	117.5	126.6	74.8
Kuder Pulp Sales Co.	1	1	1	1	3	0	0	0	104.2	239.2	86.8
Lauhoff Grain Co.	1	1	1	1	3	0	0	0	127.8	113.2	64.7
The Libner Grain Co., Inc.	1	1	1	1	3	0	0	1	107.1	106.6	113.3
Lockwood Nutrition Service, Inc.	2	1	1	1	3	1	0	0	80.8	98.8	72.5
Machnicki's Grain Store	2	2	2	2	6	0	0	1	99.3	120.5	93.8
Maple Leaf Mills Ltd.	1	1	1	1	3	0	0	0	105.4	149.3	74.0

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COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTIES

Manufacturer	No. of Samples	No. of guaranties				Samples deficient			Average % of claims		
		Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Maxon Mills, Inc.	1	1	1	1	3	1	0	0	80.6	99.0	55.6
The Mennel Milling Co.	2	2	2	2	6	0	0	0	120.4	137.7	71.4
Milk Specialties, Inc.	2	2	2	2	6	0	0	0	103.1	101.4	87.0
Miner-Hillard Milling Co.	1	1	1	1	3	0	0	0	115.0	100.0	75.2
Minnesota Linseed Oil Co.	1	1	1	1	3	0	0	0	113.3	348.0	68.4
Minute Maid Co.	1	1	1	1	3	0	0	0	100.0	293.2	79.3
Mowat, Wilson & Co.	1	1	1	1	3	0	0	0	150.0	333.3	90.1
National Alfalfa Dehydrating & Milling Co.	1	1	1	1	3	0	0	0	110.0	200.0	89.4
National Biscuit Co.	2	2	2	2	6	0	0	0	120.5	125.5	79.9
National Distillers Products Co.	1	1	1	1	3	0	0	0	120.0	112.4	93.3
Northern Ohio Sugar Co.	1	1	0	1	2	0	0	0	115.6	-----	92.7
Ogden Grain Co.	36	36	35	35	106	1	1	0	104.1	127.5	82.2
Parrish & Heimbecker Ltd.	1	1	1	1	3	0	0	0	131.7	158.6	100.3
Pierce Grain Corp.	3	2	2	2	6	0	0	0	136.7	234.2	72.6
Pillsbury Canada Ltd.	2	2	2	2	6	0	0	0	127.7	135.7	82.2
The Pillsbury Co.	1	1	1	1	3	0	0	0	120.0	111.7	85.7
Pittsburgh Brewing Co.	1	1	1	1	3	0	0	0	130.2	121.7	68.9
The Quaker Oats Co.	1	1	1	1	3	0	0	0	110.0	110.0	94.8
The Quaker Oats Co. of Canada Ltd.	3	3	3	3	9	0	0	0	112.7	169.2	83.1

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COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTIES

Manufacturer	No. of Samples	No. of guaranties				Samples deficient			Average % of claims		
		Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Ralston Purina Co.	77	76	76	76	228	4	0	0	105.5	151.2	63.0
Reading Milling Co., Inc.	1	1	1	1	3	0	0	1	103.1	185.7	121.6
Reliable Grain & Fuel Co.	1	1	1	1	3	0	0	0	114.1	106.3	62.1
Rytman Feed Co.	2	2	2	2	6	0	0	0	101.3	132.9	67.0
Schenley Distillers, Inc.	1	1	1	1	3	0	0	0	121.8	153.8	55.5
Schoeneck Farms, Inc.	1	1	1	1	3	0	0	0	101.5	154.0	91.0
Seymour Grain & Coal Co.	10	10	10	10	30	0	0	0	108.0	125.6	64.9
The Sherwin Williams Co.	2	2	2	2	6	0	0	0	103.2	608.0	81.6
Sherwood Feed Mills, Inc.	2	2	2	2	6	1	1	0	93.8	97.9	83.0
A.E. Staley Mfg. Co.	1	1	1	1	3	0	0	0	110.7	143.3	91.0
Tropicana Products, Inc.	1	1	1	1	3	0	0	0	112.5	134.5	93.9
Ultra-Life Laboratories, Inc.	4	4	4	4	12	0	0	0	114.3	116.6	81.4
United Cooperative Farmers, Inc.	16	16	16	16	48	0	0	0	108.4	118.1	70.2
Unity Feeds Division, Agway Inc.	14	14	14	14	42	0	0	0	109.8	152.0	71.4
Universal Food Products, Inc.	1	1	1	1	3	0	0	0	112.5	131.3	86.4
Universal Grain Co. of N.J.	1	1	1	1	3	0	1	0	131.7	80.0	62.2
William S. Warren & Son	5	5	5	5	15	0	0	1	106.3	147.7	94.7
H.K. Webster Co.	28	25	24	24	73	1	0	1	107.4	127.4	89.8
A.C. Wetherell	1	1	1	1	3	0	0	0	100.0	100.0	87.3

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Manufacturer	No. of Samples	No. of guaranties				Samples deficient			Average % of claims		
		Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
West-Nesbitt, Inc.	6	6	6	6	18	0	0	0	103.1	185.7	121.6
Whitmoyer Laboratories, Inc.	1	1	1	1	3	0	0	0	114.5	144.9	93.4
Wirthmore Feeds, Inc.	47	47	47	47	141	1	1	0	110.7	123.8	77.4
Wolf Savitsky & Sons, Inc.	12	12	12	12	36	0	0	0	112.7	132.6	85.5
Totals	581				1701	16	10	10			

Guaranties deficient - 2.1%

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VITAMIN CARRIERS

Manufacturer	No. of Samples	No. of Guaranties			
		Vitamin D	Panto-thenic acid	Niacin	Ribo-flavin
Agway, Inc. ¹	3	1	1	2	1
American Cyanamid Co.	2	2	0	0	0
Commercial Solvents Corp.	17	17	17	17	17
Drew Chemical Corp.	2	2	0	0	0
Hoffman La Roche, Inc.	1	1	1	1	1
Nopco Chemical Co.	1	1	0	0	0
Chas. Pfizer	2	2	1	1	1
Syntha Laboratories	3	3	2	3	2
Whitmoyer Laboratories, Inc.	7	7	3	3	3
Wirthmore Feeds, Inc. ²	1	1	1	1	1
Totals	39	37	26	28	26

¹ Thiamine: 1 guaranty; no deficiency; 89% of claim.
Folic acid: 1 guaranty; 1 deficiency (high); 161% of claim.

² Thiamine: 1 guaranty; no deficiency; 107% of claim.
Folic acid: 1 guaranty; 1 deficiency (low); 76% of claim.

VITAMIN CARRIERS

Total No. of Guars.	Samples deficient				Average % of claims		
	Vitamin D	Panto-thenic acid	Niacin	Ribo-flavin	Panto-thenic acid	Niacin	Ribo-flavin
5	0	0	0	1	81	104	123
2	0	0	0	0	--	---	---
51	0	0	0	0	98	100	101
2	0	0	0	0	--	---	---
4	0	0	0	0	86	85	113
1	0	0	0	0	--	---	---
5	0	0	0	0	90	98	91
10	0	0	0	0	86	101	100
9	0	0	0	0	86	90	94
4	0	1	1	1	183	151	131
93	0	1	1	2			

Guaranties deficient - 5.2%

Overall average % of claim - 105

MEDICATED FEED MEDICANTS

Manufacturer	No. of Samples	Medicant	No. of guaranties	No. of deficiencies	Average % of claims
Agway, Inc.	25	Amprolium	8	1	98
		Arsanilic acid	9	0	103
		Chlortetracycline hydrochloride	2	0	97
		Ethopabate	6	0	103
		4-Nitrophenylarsonic acid	2	1	123
		Oxytetracycline hydrochloride	1	0	94
American Cyanamid Co.	3	Chlortetracycline hydrochloride	3	0	97
Beacon Feeds	6	Amprolium	1	0	100
		Arsanilic acid	2	0	101
		Chlortetracycline hydrochloride	1	0	120
		Ethopabate	1	0	96
		p-Ureidobenzeneearsonic acid	2	0	101
The Berkman Grain Co.	4	Amprolium	1	0	108
		Nitrophenide	1	0	94
		Sulfaquinoxaline	2	0	112
Central Conn. Co-Op Farmers' Association, Inc.	6	Amprolium	1	0	94
		Chlortetracycline hydrochloride	1	0	91
		Furazolidone	2	0	101
		p-Ureidobenzeneearsonic acid	2	0	94

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MEDICATED FEED MEDICANTS

Manufacturer	No. of Samples	Medicant	No. of guaranties	No. of deficiencies	Average % of claims
Central Soya	7	Amprolium	2	1	165
		Arsanilic acid	2	0	113
		Ethopabate	2	1	70
		Furazolidone	2	0	105
		Sulfaquinoxaline	1	0	88
		Zoalene	1	0	103
John W. Eshelman & Son	2	Sulfaquinoxaline	1	0	102
		p-Ureidobenzeneearsonic acid	1	0	95
Farm Bureau Association	2	Amprolium	1	0	108
		Arsanilic acid	1	0	108
Hales & Hunter Co.	8	Amprolium	4	0	100
		Arsanilic acid	3	0	101
		Ethopabate	1	0	113
		Furazolidone	1	0	84
Ogden Grain Co.	5	Amprolium	3	0	93
		Arsanilic acid	2	0	106
Chas. Pfizer	1	Oxytetracycline hydrochloride	1	0	108
Ralston Purina Co.	18	Amprolium	5	0	111
		Arsanilic acid	1	0	107
		Ethopabate	5	0	102

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MEDICATED FEED MEDICANTS

Manufacturer	No. of samples	Medicant	No. of guaranties	No. of deficiencies	Average % of claims
Ralston Purina Co. (cont.)		Furazolidone	2	0	108
		Nicarbazin	3	0	97
		3-Nitro-4-hydroxyphenylarsonic acid	3	0	107
		4-Nitrophenylarsonic acid	1	0	108
		Sulfaquinoxaline	2	0	100
	Zoalene	4	0	101	
United Cooperative Farmers, Inc.	2	Chlortetracycline hydrochloride	1	0	80
		Furazolidone	1	0	114
Unity Feeds Division, Agway, Inc.	3	Amprolium	1	0	98
		Bithionol	1	0	100
		Ethopabate	1	0	100
		Methiotriazamine	1	0	100
		Sulfaquinoxaline	1	0	92
H. K. Webster Co.	4	Arsanilic acid	1	0	115
		Furazolidone	1	0	98
		4-Nitrophenylarsonic acid	1	0	108
		Zoalene	1	0	96
Wirthmore Feeds, Inc.	14	Amprolium	5	0	104
		Arsanilic acid	3	0	100
		Ethopabate	3	0	107

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MEDICATED FEED MEDICANTS

Manufacturer	No. of Samples	Medicant	No. of guaranties	No. of deficiencies	Average % of claims
Wirthmore Feeds, Inc. (cont.)		Furazolidone	2	0	102
		4-Nitrophenylarsonic acid	2	0	101
		Oxytetracycline hydrochloride	1	0	100
		Sulfaquinoxaline	2	0	103
Wolf Savitsky & Sons, Inc.	2	Arsanilic acid	2	1	50
		Chlortetracycline hydrochloride	1	1	0
	112	Totals	135	6	..
		% of guaranties deficient		4.4	
		Overall average % of claims			100

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