

*The
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**Feed Products
and Pet Foods
Inspected 1993**

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In this bulletin we present the results of the chemical analyses on 146 feed and pet food products collected during 1993. The products were collected by Alton Van Dyke, Feed Control Official of the Connecticut Department of Agriculture. Twenty different manufacturers are represented in this year's survey.

In Table 1 are listed the results of the proximate analysis of 146 products, together with the label guarantees for each parameter. A deficiency in protein or fat is indicated by a minus (-) sign next to the "Found%" value, and an excess in fiber is noted by a plus (+) sign in the fiber "Found%" column. A product is termed "unsatisfactory" if the found value of the parameter is outside of the value calculated from the label guarantee using the percent analytical variation guidelines recommended by the Association of the American Feed Control Officials. This year six samples (4.1%) were deficient in protein, eight samples (5.5%) were deficient in fat, and three samples (2.0%) were high in fiber. In addition to the proximates listed in Table 1, one sample was low in calcium, one sample was low in phosphorus, two samples were high in ash, and two samples were high in moisture. In summary, a total of 22 samples (15.1%) did not meet label guarantees for one or more parameters.

The analyses were performed by Mamie Pyles and Craig Musante under the supervision of Dr. David Stilwell.

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Table 1. Analysis of individual samples.

	Protein		Fat		Fiber	
	Guar%	Found%	Guar%	Found%	Guar%	Found%
AGWAY INC.						
Agway Pro Lean 14% Hog Feed T-20	14	15.3	3	3.1	5	2.8
Agway Milk Right 16 NV	16	16.4	2.5	5.4	12	12.6
Agway Gro Pak Med.	10	11.2	1	4.3	9	4.7
Agway Complete Calf I (Bov) Med	15	16.4	2	2.4	23	15.7
Agway Ratio:Right 20 for Rumm.	20	20.1	3	4.3	7	5.8
Agway Pro:Right 40 for Rumm.	40	39.3	0.75	1.5	5	3.2
Agway Country Feeds Egg Layer	18	19.2	3	3.9	4	2.4
Agway Country Feeds Turkey Starter, Med.	28	28.8	3	4.3	4	2.7
BAY-MAR PET FEEDS						
Bay-Mar Parrot Food	14	14.2	13	22.7	19	14.9
Bay-Mar Finch Food	12	14.2	3	6.5	8	7.4
Bay-Mar YC-550 Pigeon Feed	16	14.9-	3	3.0	4	3.9
BLUE SEAL FEEDS						
Blue Seal Strider Horse Feed Pellet	11	12.3	2.5	4.1	7	5.4
Blue Seal Bunny 16 Rabbit Pellets	16	17.1	2.5	4.0	18	11.2
Blue Seal Layer Pellets	15	14.6	3	3.5	4	3.5
Blue Seal Shepard 16 Sheep Pellets	16	15.6	2	4.2	10	8.6
Blue Seal Contender Horse Feed Pellets	16	16.6	3	4.1	7.5	5.1
Blue Seal Demand Horse Pellet with High Fat	16	16.6	6.5	7.8	6.5	4.4
Blue Seal Layer Mash	15	14.6	3	3.5	4	4.0
Blue Seal Milk-Maker 16 Dairy Pellet	16	16.6	2	5.2	10	7.2
Blue Seal Strider Horse Feed Pellets	11	13.3	2.5	3.9	7	6.7
Blue Seal Pig & Sow Pellets	15	15.2	3	3.9	7	6.1
Blue Seal Natural 26 Dog Food	26	25.6	10	11.1	4	3.0
Blue Seal Krunchies Dog Food	21	21.4	8	7.8	4	2.9
Blue Seal Energizer 16 Dairy Pellets	16	16.9	2.5	3.6	5.5	3.5
Blue Seal Layer Pellets	15	15.1	3	3.0	4	3.1
Blue Seal Guinea Pig Pellets	20	20.6	4	4.0	16	10.4
Blue Seal Llama Pellets	14	14.7	2.5	4.3	12.5	8.6
Blue Seal Milk Maker 16	16	16.0	2	5.0	10	8.1
Blue Seal Ultra 27 Dog Food	27	27.7	15	15.7	4	3.0
Blue Seal Lamb Starter Grower Pellets	18	18.4	2.5	3.0	7	2.8
Blue Seal Pig & Sow Pellets	15	15.4	3	3.2	7	5.3
Blue Seal Strider Horse Feed Pellets	11	11.6	2.5	3.5	7	5.0
Blue Seal Contender Horse Feed Pellets	16	16.5	3	4.9	7.5	5.7
Blue Seal Game Bird Crumbles	20	19.5	4.5	5.2	4	3.4
Blue Seal Hi-Pro 20 Pels Rabbit Pellets	20	20.3	2.5	2.5	12	9.8
Blue Seal Demand Horse Pellet with High Fat	16	16.4	6.5	7.6	6.5	5.2
Blue Seal Hutch Plus 18 Rabbit Pellets	18	18.1	3	4.4	15	11.0
Blue Seal Shepherd 16 Sheep Pellets	16	16.2	2	4.0	10	8.2
Blue Seal Sunshine Plus with Yeast Culture	25	25.9	2	3.3	4	3.2
Blue Seal Trotter Complete Horse Ration Pellets	14	14.9	2	3.4	20	11.6
Blue Seal Turkey Grower Pellets HS Med.	20	20.2	4.5	6.3	4	2.7
CARGILL, NUTRENA FEED DIV.						
Cargill Quality Plus Value Pack 20% Chunks Dog Food	20	21.4	6	9.8	4.5	2.3
Nutrena Cat Food	30	31.6	9	8.4	3.5	1.6

Table 1. Analysis of individual samples (continued).

	Protein		Fat		Fiber	
	Guar%	Found%	Guar%	Found%	Guar%	Found%
Nutrena 27% Hi-Pro Dog Food	27	27.1	10	11.9	3.5	2.4
Nutrena Egg Producer Pellets	16	15.8	3	3.2	4.5	4.2
Nutrena Pig & Hog Feed	15	15.5	2.5	3.6	7	4.7
Nutrena Pig Starter Pellets, BMD 30 Medicated	18	19.1	3.5	3.9	4	2.9
Nutrena Top Lamb 18-Medicated	18	18.1	2	3.7	10	6.9
Nutrena Triumph 12 Horse Pellets	12	12.8	2.5	3.1	10	8.8
Nutrena Turkey and Pheasant Starter Crumbles, Med.		29.2		3.6		3.2
Nutrena Vitality 14 Horse Feed Pellets	14	14.2	3	3.6	6	5.4
Nutrena Egg Producer Pellets	16	16.9	3	5.9	4.5	3.9
Nutrena Egg Producer Meal	16	16.2	3	3.8	4.5	3.8
Nutrena Excel 16 Dairy Feed	16	17.4	2.5	5.4	10	9.8
Nutrena Top Lamb 16	16	17.7	2	4.1	10	8.3
Nutrena Horse Kwik Ration with Roughage Pellets	14	13.4-	2	3.5	20	17.8
CENTRAL CONNECTICUT FARM COOP						
16% Floor and Cage Layer	16	17.7	3.5	4.7	4	2.7
16% Treat	16	17.8	3	3.7	8.5	6.2
16% Treat with Bicarb	16	17.5	3	3.3	8.5	6.3
20% Hi-Pro	20	20.9	3	4.8	8.5	4.5
20% Ruminator Pellets	20	19.8	3.25	6.2	8.5	4.2
22% Coag Pellets	22	22.3	3	4.5	8.5	5.0
22% Hi Soluable Pellets	22	22.2	3.25	3.5	5	4.6
Beef Pellets	12	15.0	2.5	3.4	12	10
Bradway Grist Customer Formula	40	40.4	3	5.5	8.5	3.2
DIAMOND FEEDS						
Diamond Cat Food	30	33.5	12	14.6	3	2.3
Diamond Professional Diet Cat Food	34	34.3	21	20.6	3	2.2
Diamond Puppy Food	31	31.2	20	20.2	4	1.6
Diamond Maintenance Dog Food	21	21.1	12	14.3	4	2.7
Diamond Professional Dog Food	30	29.9	20	20.9	4	2.0
HEINOLD FEEDS, INC.						
Heinold 18% Sheep Pellet	16	17.2	4	6.5	5.7	5.9
Heinold Square Deal Hog Supplement	40	39.7	2.5	2.8	7	3.5
K&L FEED CORP.						
16% Dairy Ration Pellets with Bovatec	16	16.4	3	5.6	8	6.4
16% Dairy Ration Pellets With Ammonium Chloride	16	17.2	3	5.8	8	7.3
K&L 16% Layer Crumbers	16	16.7	3	4.7	4	3.3
K&L 16% Dairy Ration Pellets	16	17.5	3	6.3	8	7.8
K&L 16% Layer Pellets	16	17.6	3	6.2	4	3.6
K&L Beef Feed Pellets	14	15.2	5	6.0	6.5	6.0
K&L Broiler Starter Crumbles	23	21.5-	4	4.3	3	2.1
K&L Energizer Horse Feed Pellets	11.5	13.4	4.5	5.8	8	8.1
K&L Goat 13% Pellets	13	16.4	3	4.5	9	5.3
K&L Kennel Blend Extra Dog Food	22	23.5	8	9.5	4	3.8
K&L Kennel Blend High Protein Dog Food	26	26.8	10	11.1	4	3.1
K&L Lamb & Sheep 16% w/ Ammonium Chloride	16	17.4	3	3.2	8	5.7
K&L Pig Finisher Pellets	13	16.8	3	3.3	4	2.8

Table 1. Analysis of individual samples (continued).

	Protein		Fat		Fiber	
	Guar%	Found%	Guar%	Found%	Guar%	Found%
K&L Pig Grower Pellets	15	17.2	3	7.1	4	4.1
K&L Pig Starter Pellets	18	19.7	3	4.3	4	4.0
K&L Sow Gestate Feed Pellets	12	13.7	3	5.8	5	4.9
K&L Sprinter 14% Horse Ration	14	18.3	3	6.0	8	7.3
K&L Turkey Finisher Pellets	15	16.3	3.5	5.1	4	3.44
Layer 1 High Amino Acid	15	15.5	2.5	4.9	3.5	2.5
Layer 2 High Amino Acid	15	15.3	2.5	5.1	3.5	2.4
NATURAL LIFE PET FOODS						
Natural Life Adult Dog Formula	26	27.6	12	12.6	3.5	2.4
Natural Life Lamaderm Dog Formula	22	22.1	10	12.5	4	4.2
Natural Life Lamaderm Puppy Formula	26	26.2	15	14.1	4	3.4
Natural Life Vegetarian Dog Formula	17.5	17.5	7.5	9.8	4.5	2.3
Natural Life Puppy Dog Formula	28	30.6	15	13.6	3.5	2.3
Natural Life Condition Dog Formula	28	29.5	18	17.4	3.5	3.3
Natural Life Lamaderm Feline Formula	28	26.9-	13	14.3	3	3.1
NUTRO PRODUCTS						
Nutro Max Special for Dogs	16	20.2	8	9.1	4.5	4.0
Nutro Max Kibble Dog Food	26	27.4	16	13.2-	4	2.5
Nutro Max Mini Size Dog Food	26	28.5	16	13.0-	4	3.0
Nutro Max Puppy Food	28	29.4	17	13.9-	4	3.5
Nutro Max Cat Lite	32	32.7	12	10.8	6	4.4
Nutro Max Cat Kitten Food	34	36.9	20	16.9-	3	3.2
Nutro Natural Choice Lamb & Rice Formula Dog Food	21	21.9	12	12.2	5	5.8+
Nutro's Natural Choice Lamb & Rice Formula Puppy	26	26.1	12	12.2	5	4.1
PET PRODUCTS PLUS INC.						
Sensible Choice Chicken Meal & Rice Cat Food	30	30.4	15	15.2	3	2.2
PET SPECIALTIES, INC.						
ANF Adult Plus Dog Food	25	27.9	15	13.7	3.5	2.0
ANF Lite Dog Food	16	18.8	8	10.9	5	3.2
ANF Maintenance Dog Food	22	23.5	13	14.8	3.5	3.8
ANF Performance Dog Food		28.7		10.9		2.0
PMI FEEDS, INC.						
Mazuri Porcine Grower	16	14.7-	2.5	4.6	18	15.1
POULIN GRAIN						
Poulin Grain Maxi Calf Milk Replacer	20	21.9	20	20.4	0.15	0.10
PRO VISIONS, DIV. RALSTON PURINA						
Pro Visions Pro Plan Turkey & Barley for Dogs	25	26.9	15	13.7	3	2.7
PURINA MILLS						
Purina Trout Chow		40.2		9.5		3.2
Purina Lean Generation Starter Chow S2, Med	19	22.4	4	6.2	5	3.1
Purina Test Cow B 18%	18	18.0	3	5.6	6	5.7
Purina New England Pride Horse Feed 14	14	14.1	2	2.8	25	21.2

Table 1. Analysis of individual samples (continued).

	Protein		Fat		Fiber	
	Guar%	Found%	Guar%	Found%	Guar%	Found%
Purina Duck Grower	16	16.2	3	5.7	5	3.8
Purina Pigeon Chow Checkers	15	15.0	2.5	3.1	5.5	5.5
Purina Coarse 14%	14	14.5	2.5	4.5	15	7.6
Purina Hog Grower OTC 50	16	16.4	2.5	5.1	5	5.0
Purina Start & Grow	17	17.3	3	5.5	5	3.9
Purina Layers Crumbles	16	16.9	2.5	4.0	7	5.0
Purina Strategy Professional Formula GX for Horses	14	13.5	6	6.4	8	7.0
THE IAMS CO.						
Eukanuba Dog Food	30	30.8	20	16.7-	4	2.2
Eukanuba Adult Dog Food	25	26.1	6	11.7	5	2.0
Eukanuba Puppy Food	33.3	19.2	2.0			
Eukanuba Light Dog Food	19	19.6	9	8.5	4	1.4
Iams Puppy Food	28	29.0	17	15.8	4	2.2
Iams Cat Food	32	33.4	21	17.6-	3	2.1
Iams Kitten Food	34	34.3	22	20.6	3	1.6
Iams Less Active for Cats	28	28.3	14	15.6	3	1.8
Iams Cat Food	32	32.4	21	17.8-	3	2.0
Iams Lamb & Rice for Dogs	23	24.5	14	13.4	4	2.2
TRIUMPH PET INDUSTRIES						
Triumph Natural Dog Food	25	29.6	15	14.4	4	3.0
Triumph Natural Dog Food	25	27.2	15	14.8	4	3.5
Triumph Natural Puppy Food		30.3		14.0		2.4
Triumph Original Flavor Cat Food	32	33.3	20	18.5	2.5	2.1
Triumph Chicken Flavor Cat Food	32	34.1	20	15.8-	2.5	2.2
UNITED COOPERATIVE FARMERS						
North Eastern's Finest Wild Bird Food Original Blend	10	10.6	2	5.1	4.6	4.5
VENTURA GRAIN CO.						
Everyday Rabbit Pellets	17	17.3	3	4.8	18	14.9
Every Day Complete Layer 16		15.5		2.7		3.3
WAUREGAN GRAIN CO.						
Wauregan Turkey & Game Bird Grower	22	27.8	3.5	5.6	4.5	6.7+
Wauregan Heifer-Grower Pellets, Med	16	16.2	3	4.2	8	8.8
Wauregan Equine's Choice Complete Horse Feed	14	14.5	2.5	3.3	20	5.0
Wauregan 16% Pork Maker Plus	16	18.4	3	3.9	4.5	5.5+
Wauregan Milkers Choice 1680	16	16.5	3	4.4	8	8.1
Wauregan Rabbit Pellet 16	16	17.1	3	4.2	18	17.5
Wauregan Chick Starter, Med.	20	16.7-	3	4.5	4	3.8
Wauregan 26 Dog Food	26	26.4	10	11.7	4	2.8
Wauregan High Production 2085	20	21.2	3.5	5.5	7.5	7.8
Wauregan Milker's Choice 1680	16	16.7	3	5.1	8	7.6
Wauregan Performance Plus Energy High Fat Horse	16	16.3	6.5	6.0	6.5	6.4



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