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Lester Hankin

Feed Products and  
Pet Foods Inspected – 1988

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**Feed Products  
and Pet Foods  
Inspected 1988**

BY LESTER HANKIN



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no. 874

Chemical analysis of 677 official samples of feed products and pet foods collected during 1988 by inspectors of the Connecticut Department of Agriculture are presented in this Bulletin. Feed for farm animals accounted for 411 samples. Although the 266 pet foods tested were mainly for dogs and cats, food for caged and wild birds, fish, and rabbits is included.

Table 1 shows individual samples from 38 manufacturers and one category where the manufacturer was not known. In the Table the brand names for individual products from each manufacturer are followed by percentage guarantee for the nutrients protein, fat, fiber, and ash. For example, the numbers, 10, 8, 4, 2 indicate that a minimum of 10% protein, a minimum of 8% fat, a maximum of 4% fiber, and a maximum of 2% ash are guaranteed. The analyses are then shown with deficiencies in protein and fat followed by a dash (-) and excesses in fiber and ash followed by a plus sign (+).

Table 2 summarizes the number of samples from each manufacturer and the number of guarantees for ash. The number of guarantees for protein, fat, and fiber is the same as the number of samples. Next is shown the percentage not meeting the guarantee for each nutrient, followed by the average percentage for each nutrient

Two types of variability affect feed and pet food analysis and must be considered in judging deficiencies. The first is the variability among different batches of the same product. This variability can be noted by examination of the results of analyses on the same product from the same manufacturer. The second type of variability is among duplicate analyses on the same product. This variability is shown by the statement: the mean difference between duplicates for protein, fat, fiber, and ash is about three-tenths percent.

Feed and pet foods are deemed deficient in protein and fat and excessive in fiber and ash if the analysis is not within analytical variations recommended by the Association of American Feed Control Officials. For all samples 3.5% were deficient in protein and 1.9% were deficient in fat. These percentages are lower than found for samples tested in 1987. No samples contained excess fiber or ash. In all only 5.5% of the samples examined were deficient in at least one nutrient.

Analyses were by Mamie Pyles, Craig Musante, and Mary Alice DeFrancesco. Samples were collected by Richard Macsuga, Richard Olson, John Chapman, Marilyn Abt, and Raymond Weller under the direction of Alton VanDyke, Feed Control Official, and Kenneth Veit, Chief of the Marketing Division, of the Department of Agriculture. Feed laws are administered by the Commissioner of the Connecticut Department of Agriculture.

Lester Hankin  
Chief, Analytical Chemistry

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Agway, Inc.								
Agway	28	3	4		25.8-	3.2	2.8	
Agway 48% Solvent Extracted Soybean Meal	48	0.5	3.5		48.7	2.2	3.1	
Agway 48% Solvent Extracted Soybean Meal	48	0.5	3.5		48.6	1.5	3.1	
Agway 85% Concentrate (Ruminants)	85	3	8		91.8	4.5	7.4	
Agway Big Red Special Rabbit Pellets	15	2.5	15		16.9	2.5	7.5	
Agway Big Red Special Rabbit Pellets	15	2.5	15		15.7	3.7	13.5	
Agway Big Red Special Rabbit Pellets	15	2.5	15		17.8	4.1	14.8	
Agway Blue Label Milk Replacer	22	10	0.5		21.5	9.5	0.7	
Agway Blue Label Milk Replacer (Med)	22	10	0.5		22.5	10.7	0.8	
Agway Champion For Livestock	14	2.5	7		13.7	3.9	6.6	
Agway Champion for Livestock	14	2.5	7		15.6	2.6	6.3	
Agway Choice Complete Horse Feed	12	2	20		13.2	3.7	12.4	
Agway Choice For Horses	12	2	20		13.3	3.3	9.6	
Agway Choice For Horses	12	2	20		13.3	2.8	19.5	
Agway Choice For Horses	12	2	20		12.3	3.4	3.4	
Agway Corn Distillers Dried Grain	24	3	14		23.4	10.5	4.8	
Agway Country Chick Starter	18	3	4		18.6	3.2	2.8	
Agway Country Chick Starter (Medicated)	18	3	4		18.2	3.6	2.8	
Agway Country Chick Starter (Medicated)	18	3	4		18.5	3.1	2.0	
Agway Country Chicken Grower	14.5	3.5	4		15.5	4.2	2.6	
Agway Country Chicken Grower	14.5	3.5	4		15.5	5.6	4.4	
Agway Country Chicken Grower	14.5	3.5	4		14.9	7.2	3.4	
Agway Country Chicken Grower (Med)	14.5	3.5	4		16.8	3.6	3.1	
Agway Country Chicken Grower (Med) for Repl	14.5	3.5	4		15.0	4.1	2.2	
Agway Country Chicken Grower (Medicated)	14.5	3.5	4		17.0	5.9	3.2	
Agway Country Egg Layer	16	3	4		16.5	3.9	2.5	
Agway Country Egg Layer	16	3	4		16.1	3.5	2.3	
Agway Country Egg Layer	16	3	4		16.3	3.2	4.0	
Agway Country Egg Layer	16	3	4		17.5	4.6	2.8	
Agway Country Egg Layer	16	3	4		17.5	3.8	2.6	
Agway Country Egg Layer	16	3	4		17.0	4.9	3.2	
Agway Country Game & Turkey Feed (Med)	16	3	8		16.2	4.3	1.9	
Agway Country Game & Turkey Grower	21	3	4		19.2-	3.7	2.3	
Agway Country Game & Turkey Grower	21	3	4.5		21.3	3.7	3.3	
Agway Country Game & Turkey Grower	21	3	4.5		21.2	4.8	3.8	
Agway Country Game & Turkey Grower (Med)	21	3	4.5		21.1	3.8	2.9	
Agway Country Game & Turkey Grower (Med)	21	3	4.5		21.0	3.4	2.6	
Agway Country Game & Turkey Grower (Med)	21	3	4.5		21.2	3.7	2.8	
Agway Crimped Oats with Molasses	10	4	12		10.3	3.9	12.0	
Agway Crunchy Pro-Right 5500-16 (Ruminants)	16	3	7		16.3	4.6	6.1	
Agway Early Market Lamb Pellets	14	2	18		15.2	3.4	17.1	
Agway Gro Right Complete Calf (BOV) (Med)	15	2	23		15.7	2.5	17.6	
Agway Gro Right Complete Calf 1 (Med)	15	2	23		15.8	2.5	13.4	
Agway Gro Right Complete Calf I (Med)	15	2	23		15.1	5.4	12.2	
Agway Grow Lead Squeeler (Med) (Swine)	18	4	3		18.2	6.0	1.7	
Agway Grow Right Calf Crunch	18	3	7		19.9	3.7	4.7	
Agway Hi Energy Lamb Pell(Med) w/Fish Meal	16	3.5	9		16.9	4.2	3.1	

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Agway Hi-Energy Lamb Pell(Med) w/Fish Meal	16	3.5	9		16.0	4.0	8.8	
Agway Milk Right 16 (NU) for Ruminants	16	2.5	12		16.3	4.4	4.6	
Agway Milk Right 16 (NU) for Ruminants	16	2.5	12		16.0	4.4	3.1	
Agway Performance for Horses	14	3	10		14.8	3.3	4.6	
Agway Pro Lean 14% Hog Feed (T 20)(Med)	14	3	5		14.9	3.6	2.8	
Agway Pro Lean 16% Sow & Pig	16	3	5.5		16.4	4.5	3.3	
Agway Pro Lean 16% Sow & Pig Feed (Med)	16	3	5		16.2	3.3	3.3	
Agway Pro-Lean 14% Hog Feed	14	3	5		14.0	2.9	3.4	
Agway Pro-Lean 14% Hog Feed (T20) (Med)	14	3	5		15.4	4.1	3.8	
Agway Pro-Lean 14% Hog Food (Med)	14	3	5		14.5	3.0	2.4	
Agway Pro-Lean 16% Sow & Pig Feed(T40)(Med)	16	3	5		16.8	4.5	3.2	
Agway Pro-Lean 16% Sow & Pig Feed(T40)(Med)	16	3	5		16.2	3.1	3.1	
Agway Pro-Lean Gestating Swine Feed	14	2.5	10		19.1	2.7	5.4	
Agway Pro-Right 2000-40 (Ruminants)	40	0.75	5		36.3-	4.6	0.9	
Agway Pro-Right 5500-16 (Ruminants)	16	3	7		16.1	3.6	4.4	
Agway Pro-Right RC 4500-20 Ruminants	20	3	6.5		20.5	4.2	3.6	
Agway ProLab Animal Diet Rat/Mouse/Hamster	22	5	5	6	22.0	6.2	4.8	6.5
Agway Prolab Animal Diet Rat/Mouse/Hamster	22	5	5	6	22.6	6.1	4.0	6.4
Agway Ratio- Right 501-16 for Cows	16	3	8.5		16.1	4.3	4.5	
Agway Ratio-Right 200-40 (Ruminants)	40	0.75	6		40.6	1.3	2.8	
Agway Ratio-Right 400-20 (Ruminants)	20	3	8.5		20.5	3.7	7.2	
Agway Ratio-Right 400-20 for Cows	20	3	8.5		20.3	3.6	5.5	
Agway Ratio-Right 450-20 (Ruminants)	20	3	7		20.0	5.2	4.2	
Agway Ratio-Right 500-16 (Ruminants)	16	3	8.5		16.8	3.3	4.4	
Agway Ratio-Right 501-16 (Ruminants)	16	3	8.5		16.3	2.9	7.0	
Agway Ratio-Right 550-16 (Ruminants)	16	3	7		16.1	4.9	4.7	
Agway Ratio-Right 550-16 (Ruminants)	16	3	7		16.2	6.2	4.6	
Agway Ratio-Right 550-16 (Ruminants)	16	3	7		16.0	4.4	5.3	
Agway Ratio-Right 650-16 (Ruminants)	16	3	7		16.3	4.4	6.4	
Agway Ratio-Right Super Fit-N-Fresh 620	13	3	8.5		15.3	4.0	8.4	
Agway Ratio-Right Super Fit-N-Fresh13 (Rumin)	13	3	8.5		15.5	3.7	4.2	
Agway Red Label Milk Replacer (Med)	26	10	1		26.5	11.8	0.9	
Agway Scratch Grain	9	2	5		9.2	3.5	2.4	
Agway Scratch Grains	9	2	5		9.2	6.0	2.5	
Agway Scratch Grains	9	2	5		9.2	6.0	2.5	
Agway Trim For Horses	14	2.5	10		15.7	3.5	9.7	
Agway Trim Textured Horse Feed	14	2.5	10		14.3	3.0	4.8	
Agway Trim Textured Horse Food	14	2.5	10		14.1	2.5	6.3	
Agway Wheat Bran	14	2.5	12		15.5	5.1	7.5	
Bay-Mor Pet Feeds								
Bay-Mor Canary Food	17	12	8	6	16.4	19.3	7.2	5.2
Bay-Mor Cockatiel Food	12	4	10	7	12.8	8.8	9.8	3.2
Bay-Mor Economy Breeder Pigeon Feed	11	2	5		12.5	2.4	2.6	
Bay-Mor Economy Breeder Pigeon Feed	11	2	5		12.4	2.8	2.5	
Bay-Mor Finch Food	12	3	8	6	13.6	4.9	6.6	4.0
Bay-Mor Parrot Food	14	13	19		14.1	21.4	6.8	2.1

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Bay-Mor Pigeon Feed	14	2	6		13.7	2.9	6.1	
Bay-Mor Quality Pigeon Feed	16	2	5		16.3	3.4	4.1	
Best Feeds & Farm Supplies, Inc.								
Joy Chunks Dog Food	25	8	4	10	26.9	9.0	2.9	6.3
Joy Special Meal	26	10	4	10	26.4	10.1	2.6	6.3
Cargill, Inc./Nutrena Feed Div.								
Bloomfield 16% Dairy Feed	16	4	8		16.0	4.0	8.3	
Bloomfield 16% Dairy Feed	16	4	8		15.9	5.3	6.4	
Cargill Harvest Grains Cracked Corn	8	3	3		8.7	3.0	1.1	
Cargill Nutrena Egg Producer Meal (V) M	16	3	4.5		16.3	4.1	2.7	
Cargill Nutrena Feed Dehyd Alfalfa Pellets	17	2.5	25		17.7	3.3	19.4	
Cargill Nutrena Feed Turkey Grower	22	3	6		22.3	5.4	3.9	
Cargill Nutrena Vitality Horse Kwik	12.5	2	20		13.6	4.3	13.0	
Harvest Grains Extra Clean Barley	10	1.5	7		10.3	2.2	5.9	
Harvest Grains Whole Corn (D)	8	3	3		8.4	3.7	1.8	
Nutrena 16 AP Textured Feed (C)	16	2.5	8		16.1	3.9	5.5	
Nutrena 16% Rabbit Pellets (ABF)	16	2.5	15		16.4	4.1	8.6	
Nutrena 40 Hog Concentrate (ABF)	40	3	6		40.0	4.8	4.3	
Nutrena 48% Soybean Meal	48	0.5	3.5	7	49.0	2.7	1.7	6.2
Nutrena Chunks Dog Food	21	8	4.5	10	21.6	9.3	3.3	8.2
Nutrena Cracked Corn	8	3	3		8.3	3.0	1.1	
Nutrena Cracked Corn	8	3	3		8.0	4.3	1.7	
Nutrena Crimped Oats	10	3.5	11		11.0	3.6	10.5	
Nutrena Egg Producer (B) B Pellets	16	3	4.5		16.2	3.4	2.7	
Nutrena Egg Producer Meal (V) V	16	3	4.5		16.2	2.9	3.7	
Nutrena Egg Producer Pellets	10	3	4.5		16.1	3.9	4.1	
Nutrena Egg Producer Ration (D)	16	3	4.5		16	3.2	3.7	
Nutrena Feed Vitality 12 Sweet Feed (D)	12	3	7		12.9	3.1	3.9	
Nutrena Feed Whole Oats	10	3.5	11		10.8	6.0	10.7	
Nutrena Fine Cracked Corn Wild Bird Food	8	3	3		8.9	3.7	1.8	
Nutrena Finisher	15	3	8		16.2	4.5	6.8	
Nutrena Fitting & Fresh A/P Feed	14	2.5	8		14.2	3.6	6.3	
Nutrena Horse Kwik Ration w/Roughage Pell	12.5	2	20		14.3	3.7	14.9	
Nutrena Pellet Grower 15 (B) Feed	15	3	5	8	14.1-	3.0	3.4	5.3
Nutrena Pheasant Starter (Med)	27	2	7.5		27.1	5.3	4.5	
Nutrena Pig & Hog Feed	15	2.5	7		15.7	4.0	6.8	
Nutrena Pig & Hog Feed	15	2.5	7		16.3	3.6	2.9	
Nutrena Pig & Hog Feed	15	2.5	7		15.2	3.7	5.3	
Nutrena Pig & Hog Feed (Med)	15	2.5	7		15.8	3.6	7.1	
Nutrena Poultry Feed Scratch Feed	8	3	5	3	8.8	2.9	2.4	1.5
Nutrena Rabbit Pellets (D)	16	2.5	15		19.7	3.3	11.5	
Nutrena Scratch Feed	8	3	5	3	9.6	3.5	3.7	1.9
Nutrena Snowflakes 22-15 Milk Repl (Med)	22	15	0.5		22.1	14.8	0.4	
Nutrena Top Lamb Feed	10	2	10		12.2	4.2	9.2	
Nutrena Top Lamb Feed 16	16	2	10		16.4	2.8	8.0	
Nutrena Triumph 12 Sweet Feed (Horse)	12	2.5	13	8	12.8	4.0	5.3	6.7

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Nutrena Triumph Sweet Feed	16	2.5	12.5		16.1	4.7	10.1	
Nutrena Turkey Grower	22	3	6		22.3	3.6	5.2	
Nutrena Turkey Grower Crumbles	22	3	6		22.3	4.5	5.9	
Nutrena Vitality	12	3	7		11.9	3.1	7.1	
Nutrena Vitality 12 Sweet Feed (D)	12	3	7		12.9	3.2	3.7	
Nutrena Vitality 12 Sweet Feed (D)	12	3	7		13.4	2.9	3.4	
Nutrena Vitality 14 Sweet Feed (D)	14	3	7		14.0	3.4	5.7	
Nutrena Vitality w/Roughage Pellets	12.5	2	20		13.1	3.1	12.9	
Nutrena Wheat Bran	15	2.5	12		15.1	3.0	8.2	
Nutrena Whole Corn (D)	8	3	3		8.2	3.7	2.0	
Nutrena Whole Oats	10	3.5	11		10.3	4.4	12.0	
Nutrena Whole Oats	10	3.5	11		11.8	3.5	10.5	
Nutrena Wild Bird Seed Mix (D)	11	8	11		11.8	7.9	5.6	
Pro Energy Meat Chicken Protein Food	25	12	3		26.9	11.9	1.2	
Carnation Co. Milling Div.								
Fancy Feast Ocean Whitefish/Tuna Cat Food	14	3	1	3	17.4	2.9	0.5	2.9
Fancy Feast Seafood Feast Gourmet Food	14	3	1	3.5	15.1	3.1	0.8	3.8
Fancy Feast Tender Beef Feast Cat Food	12	5	1	3.5	12.5	7.9	1.2	2.8
Fancy Feast Turkey & Giblets Cat Food	13	6.5	1	2.9	13.4	9.8	1.2	2.6
Mighty Dog Beef & Chicken for Dogs	10	8	1		11.5	14.7	0.5	
Mighty Dog Chicken & Liver for Dogs	10	8	1		10.9	9.0	0.3	
Mighty Dog Chicken/Egg/Bacon for Dogs	10	8	1		10.8	14.1	0.8	
Mighty Dog Turkey & Giblets for Dogs	10	8.5	1		11.6	12.3	0.6	
Central Connecticut Co-op Farmers Assoc.								
16% Dairy Treat Pellets	16	3	8.5		16.6	3.8	6.0	
16% Dairy Treat Pellets	16	3	8.5		16.0	3.6	6.0	
16% Dairy Treat Pellets	16	3	8.5		16.2	4.4	6.7	
16% Dairy Treat Pellets	16	3	8.5		16.5	3.3	6.0	
16% Dairy Treat Pellets with Bicarbonate	16	3	8.5		16.0	3.3	5.3	
20% Dairy Treat Pellets	20	3	8.5		20.3	3.5	7.6	
20% Dairy Treat Pellets	20	3	8.5		20.6	4.2	4.6	
20% Dairy Treat Pellets	20	3	8.5		20.3	3.2	6.4	
20% Dairy Treat Pellets	20	3	8.5		20.1	4.0	6.4	
20% Dairy Treat Pellets	20	3	8.5		20.0	3.6	6.1	
20% Hi Pro Pellets	20	3	8.5		20.2	3.6	3.8	
20% Hi Pro Pellets	20	3	8.5		20.5	4.4	4.0	
20% Hi Pro Pellets	20	3	8.5		20.7	5.1	4.0	
20% Hi Pro Pellets	20	3	8.5		20.3	4.7	3.8	
20% Parlour Pellet	20	3	8.5		20.2	5.2	4.0	
24% Hi Pro Pellets	24	3	8.5		24.3	3.8	4.7	
24% Hi Pro Pellets	24	3	8.5		24.3	4.2	4.2	
Chesapeake Dehydrators								
Baled Hay Replacer	15	1.5	3		17.6	4.5	2.8	



Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Continental Grain Co./Wayne Pet Food Div.								
Pro Mix Dog Food	21	8	6		21.8	8.9	4.3	
Tail Wagger Liver-Flavored Dog Food	22	6	5		22.6	5.9	4.4	
Wayne Chunk Style Dog Food	25	12	3		25.9	12.4	2.7	
Wayne Dog Food	25	12	3		26.0	11.3	2.5	
Wayne Dog Food	25	12	3		25.2	13.3	2.0	
Wayne Kit Kat Glow Cat Food	30	10	3		31.9	10.1	2.6	
Wayne Puppy O Puppy Food	28	9	5		28.1	9.9	3.8	
Wayne Puppy O Puppy Food	28	9	5		29.7	10.6	3.5	
Wayne Puppy O's	28	9	5		28.9	10.2	2.4	
Wayne Tail Wagger Gravy Dog Food (Beef Flv)	22	6	5		22.9	7.2	3.9	
Wayne Tail Wagger Gravy Dog Food(Chick Flv)	22	6	5		22.2	6.5	4.9	
Wayne Tail Wagger Gravy Dog Food(Liver Flv)	22	6	5		22.1	7.0	4.9	
Derby Feed Co., Inc.								
New DeLuxe Brand Wild Bird Seed Mix	10	3	9		11.5	8.3	5.3	
New Improved Snow Bird Wild Bird Food	9	3	9		11.9	4.3	3.2	
New Wild Bird Food	10	3	9		15.6	3.5	4.4	
New Wild Bird Food	10	3	9		11.5	6.4	5.4	
Snow Bird Wild Bird Food	9	3	9		11.0	4.3	3.5	
Farm Bureau								
Rascal Cat Food	30	8	4.5		30.5	9.4	2.0	
Farnum Companies								
Farnum Apple Treats w/Vit A	7	2	3.5		7.9	2.9	1.6	
First National Supermarkets, Inc.								
Finast	21	8	4		21.6	7.8	4.6	
Gaines Pet Food Corp.								
Cycle-1 Puppy	27	9	4		27.7	8.8	2.5	
Cycle-2 Adult	21	8	4		21.6	11.1	2.3	
Gravy Train	21	6	6		20.7	6.4	2.2	
H. K. Webster Co., Inc.								
Blue Seal Breeder Pellets	17	3	3.5		16.7	3.5	2.4	
Blue Seal Breeder Pellets	17	3	3.5		18.1	3.1	3.1	
Blue Seal Breeder Pellets	17	3	3.5		18.1	3.5	2.5	
Blue Seal Broiler Crumbles (Med)	21	6.5	3		23.1	6.8	2.1	
Blue Seal Broiler Crumbles CB (Medicated)	21	6.5	3		22.8	6.5	1.9	
Blue Seal Broiler Crumbles-CB (Medicated)	21	6.5	3		22.3	6.5	2.2	
Blue Seal Bunny 16 Pels Rabbit Pellets	16	2.5	18		17.0	3.4	13.6	
Blue Seal Bunny 16 Pels Rabbit Pellets	16	2.5	18		16.1	4.0	13.7	
Blue Seal Bunny 16 Pels Rabbit Pellets	16	2.5	18		16.9	3.8	11.6	
Blue Seal Caprine Challenger Coarse Goat Fd	18	3	7		14.7-	3.8	1.4	
Blue Seal Charger Horse Feed	14	2.5	12.5		17.3	3.6	7.5	
Blue Seal Charger Three-in-one Horse Feed	14	2.5	12.5		14.9	3.3	6.7	

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Blue Seal Chick Starter AM Medicated	20	3	4		21.4	3.3	4.1	
Blue Seal Chick Starter AM Medicated	20	3	4		20.7	3.7	3.1	
Blue Seal Coarse 14 Test/Cow/Livstck Ration	14	3.5	8		14.5	3.3	4.5	
Blue Seal Coarse 18	18	3.5	8		17.8	4.4	6.6	
Blue Seal Coarse Cracked Corn	8.5	2.5	2.5		8.7	5.3	1.3	
Blue Seal Coarse Cracked Corn	8.5	2.5	2.5		8.5	5.6	1.4	
Blue Seal Coarse Cracked Corn	8.5	2.5	2.5		10.0	5.9	1.2	
Blue Seal Coarse Cracked Corn	8.5	2.5	2.5		9.0	6.3	1.8	
Blue Seal Coarse Cracked Corn	8.5	2.5	2.5		8.6	4.8	1.8	
Blue Seal Contender Horse Feed Pellets	16	3.5	7.5		16.4	3.3	6.0	
Blue Seal Contender Horse Feed Pellets	16	3.5	7.5		17.1	3.6	7.1	
Blue Seal Contender Horse Feed Pellets	16	3.5	7.5		16.3	4.2	6.8	
Blue Seal Contender Horse Feed Pellets	16	3.5	7.5		16.4	4.7	6.0	
Blue Seal Contender Horse Feed Pellets	16	3.5	7.5		18.1	4.4	2.4	
Blue Seal Dairy Maid Milk Replacer	20	20	0.25	10	20.3	20.4	0.3	7.4
Blue Seal DeHulled Solv Extrctd Soybn Meal	48	0.5	3.3		48.0	2.5	2.1	
Blue Seal Dehulled Solv Extrctd Soybn Meal	48	0.5	3.3		48.2	1.7	3.8	
Blue Seal Energizer 16	16	3.3	5.5		16.2	3.8	3.6	
Blue Seal Energizer 16 Dairy Pellets	16	3.2	5.5		16.2	3.5	4.0	
Blue Seal Energizer 20 Dairy Pellets	20	3.2	5.5		20.4	3.1	3.5	
Blue Seal Fat & Finish Pellets	18	4.5	3.5		18.3	4.9	2.4	
Blue Seal Fat & Finish Pellets	18	4.5	3.5		19.2	5.0	2.4	
Blue Seal Fat & Finish Pellets	18	4.5	3.5		18.6	4.3	3.5	
Blue Seal Feed Broiler Crumbles	21	6.5	3		21.3	6.6	3.3	
Blue Seal Flaky Pel 16	16	3.5	8		18.3	4.6	1.9	
Blue Seal Game Bird Crumbles	20	4.5	4		20.8	5.4	3.6	
Blue Seal Game Bird Crumbles	20	4.5	4		20.0	6.2	2.6	
Blue Seal Game Bird Crumbles	20	4.5	4		20.4	4.2	4.1	
Blue Seal Game Bird Crumbles	20	4.5	4		19.5	5.6	2.8	
Blue Seal Gravy Pig Pellets	20	4	16		20.1	4.5	12.6	
Blue Seal Grower Cal-Mash	15	3	4		17.1	4.6	2.8	
Blue Seal Grower Pellets	15	3	4		17.3	3.5	3.3	
Blue Seal Grower-Cal Mash	15	3	4		14.6	3.6	3.3	
Blue Seal Guinea Pig Pellets w/Added Vit C	20	4	16		21.1	4.6	8.9	
Blue Seal Heifer BT Pellets Medicated	16	2	7		17.1	3.8	5.5	
Blue Seal Hi Pro 20 Pels Rabbit Pellets	20	2.5	12		20.3	3.3	6.6	
Blue Seal Hi Pro 20 Pels Rabbit Pellets	20	2.5	12		20.1	3.3	8.9	
Blue Seal Hi Pro 20 Pels Rabbit Pellets	20	2.5	12		20.6	2.7	8.8	
Blue Seal Hi-Pro 20 Pels Rabbit Pellets	20	2.5	12		20.5	4.2	10.0	
Blue Seal Hutch 18 Pels Rabbit Pellets	18	2.5	15		18.3	3.6	10.7	
Blue Seal Hutch 18 Pels Rabbit Pellets	18	2.5	15		19.7	3.5	12.0	
Blue Seal Hutch 18 Pels Rabbit Pellets	18	2.5	15		19.8	3.7	12.3	
Blue Seal Hutch 18 Pels Rabbit Pellets	18	2.5	15		20.0	4.3	10.5	
Blue Seal Hutch 18 Pels Rabbit Pellets	18	2.5	15		17.5	4.6	12.4	
Blue Seal Kat Krunchies Cat/Kitten Fd	30	9	4	7.5	30.1	10.9	2.2	7.9
Blue Seal Krunchies	21	8	4		21.7	7.5	2.5	
Blue Seal Krunchies Dog Food	21	8	4		21.5	8.0	2.5	
Blue Seal Lamb BT Pellets (Medicated)	18	3.5	7		18.5	4.4	7.1	

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Blue Seal Lamb Finisher Pellets	15	3.5	7		15.6	5.5	2.8	
Blue Seal Lamb Finishing Pellets	15	3.5	7		15.9	4.4	2.9	
Blue Seal Lamb Starter Grower Pellets	18	3.5	7		19.2	4.7	2.9	
Blue Seal Lamb Starter Grower Pellets	18	3.5	7		19.6	5.2	3.0	
Blue Seal Lamb Starter Grower Pellets	18	3.5	7		19.7	3.9	3.4	
Blue Seal Lamb Starter Grower Pellets	18	3.5	7		18.3	3.8	3.2	
Blue Seal Layer Mash	15	3	4		15.1	3.5	2.6	
Blue Seal Layer Mash	15	3	4		16.1	3.0	2.2	
Blue Seal Layer Mash	15	3	4		15.9	3.5	2.7	
Blue Seal Layer Mash	15	3	4		18.8	2.8	3.4	
Blue Seal Layer Mash	15	3	4		16.6	4.6	2.2	
Blue Seal Layer Pellets	15	3	4		15.6	2.9	2.4	
Blue Seal Layer Pellets	15	3	4		16.5	3.0	2.6	
Blue Seal Layer Pellets	15	3	4		16.3	3.7	2.8	
Blue Seal Layer Pellets	15	3	4		17.1	3.5	3.7	
Blue Seal Layer Pellets	15	3	4		15.3	4.5	3.2	
Blue Seal Milk Maker 16 Dairy Pellets	16	3	8.5		16.3	3.6	7.5	
Blue Seal Milk Maker 16 Dairy Pellets	16	3	8.5		16.1	3.5	7.1	
Blue Seal Milk Maker 20 Dairy Pellets	20	3	8.5		20.4	4.8	7.2	
Blue Seal Milky Way Milk Replacer Medicated	22	10	0.5		22.2	12.2	0.4	
Blue Seal Natural 26 Dog Food	26	10	4		26.4	9.2	2.5	
Blue Seal Natural 26 Dog Food	26	10	4		26.6	11.8	2.6	
Blue Seal Olympian High Fat Horse Pellets	14	6	6.5		14.1	6.1	4.8	
Blue Seal Pacer Horse Feed	12	3	9		14.0	3.8	4.9	
Blue Seal Pig & Sow Pellets	15	3.5	7		15.3	4.8	5.2	
Blue Seal Pig & Sow Pellets	15	3.5	7		15.9	5.2	3.5	
Blue Seal Pig & Sow Pellets	15	3.5	7		15.8	3.8	7.1	
Blue Seal Pig & Sow Pellets	15	3.5	7		16.4	4.1	3.7	
Blue Seal Pig Crumbles Medicated	15	3.5	7		14.8	3.2	5.8	
Blue Seal Piglet Crumbles Medicated	18	3.5	7		19.9	3.1-	5.7	
Blue Seal Pork Maker Mash	13	3.5	7		13.7	3.5	5.2	
Blue Seal Pork Maker Mash	13	3.5	7		14.7	5.2	6.8	
Blue Seal Rabbit Pellets Hutch 18 Pel	18	2.5	15		18.1	3.3	13.5	
Blue Seal Rider Horse Feed	12	3	9		13.5	2.8	6.6	
Blue Seal Scratch Feed	9	2.5	5		9.1	5.6	1.8	
Blue Seal Scratch Feed	9	2.5	5		10.1	3.9	3.0	
Blue Seal Scratch Feed	9	2.5	5		9.6	4.2	2.4	
Blue Seal Scratch Feed	9	2.5	5		9.1	4.3	3.2	
Blue Seal Scratch Feed	9	2.5	5		9.8	2.6	1.9	
Blue Seal Scratch Feed	9	2.5	5		9.6	3.3	1.8	
Blue Seal Song Maker Wild Bird Feed	11	8	10		12.5	13.0	7.0	
Blue Seal Song Maker Wild Bird Feed	11	8	10		11.1	9.5	6.3	
Blue Seal Sow Pellets	15	3.5	7		15.0	3.9	4.5	
Blue Seal Soybean Meal	48	0.5	3.3		48.5	0.8	3.0	
Blue Seal Stampede Horse Feed	18	3	9		18.3	3.8	5.0	
Blue Seal Strider Horse Feed Pellets	11	3	7		14.3	4.7	5.0	
Blue Seal Strider Horse Feed Pellets	11	3	7		11.3	3.3	4.1	
Blue Seal Strider Horse Feed Pellets	11	3	7		13.3	3.9	5.0	

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Blue Seal Strider Horse Feed Pellets	11	3	7		12.3	3.7	4.7	
Blue Seal Strider Horse Feed Pellets	11	3	7		12.3	2.7	6.1	
Blue Seal Sunshine Plus with Yeast Culture	25	2	4		23.7-	4.4	4.1	
Blue Seal Sunshine Plus with Yeast Culture	25	2	4		25.3	3.5	4.3	
Blue Seal Trotter	14	2.5	20		14.4	3.5	9.8	
Blue Seal Trotter	14	2.5	20		15.7	3.6	8.1	
Blue Seal Trotter	14	2.5	20		14.6	3.7	10.5	
Blue Seal Trotter	14	2.5	20		14.8	3.8	9.8	
Blue Seal Trotter Complete Pellets	14	2.5	20.5		14.0	3.8	11.3	
Blue Seal Trotter Horse Pellets	14	2.5	20		15.8	5.8	9.8	
Blue Seal Trotter Horse Ratio Pellets	14	2.5	20		13.7	3.4	13.0	
Blue Seal Turkey Grower Pellets	20	4.5	4		21.4	4.6	1.5	
Blue Seal Turkey Grower Pellets	20	4.5	4		20.4	4.7	2.6	
Blue Seal Turkey Grower Pellets	20	4.5	4		20.0	4.5	3.6	
Blue Seal Turkey Grower Pellets HS (Med)	20	4.5	4		20.6	4.7	3.2	
Blue Seal Turkey/Game Bird Starter (Med)	28	4.5	4		28.6	4.7	2.8	
Blue Seal Turkey/Game Bird Strtr Crmbl(Med)	28	4.5	4		28.9	4.2	2.3	
Blue Seal Ultra 27 Dog Food	27	15	4		28.1	18.4	3.1	
Blue Seal Vital Formula	20	20	0.2		20.4	15.7-	0.2	
K & L Feed Mill								
14% Sprinter Horse Feed Pellets	14	3	8		14.3	3.4	1.8	
14% Sprinter Horse Feed Pellets	14	3	8		12.6-	3.7	8.0	
16% Dairy Ration Pelleted	16	3	8		14.6-	2.8	3.5	
16% Dairy Ration Pelleted Hi-Energy	16	3	8		13.7-	4.3	7.4	
16% Dairy Ration Pelleted Hi-Energy	16	3	8		15.0-	3.0	8.1	
K & L	22	8	4		23.6	7.6	2.7	
K & L 14% Sprinter	14	2.5	8		14.2	2.6	2.4	
K & L 16% Layer	16	3	4		16.3	3.4	1.7	
K & L 16% Layer	16	3	4		16.1	4.5	3.2	
K & L 18% Dairy Pelleted	18	3	8		15.9-	2.7	2.4	
K & L 20% Dairy	20	3	8		17.7-	3.2	2.4	
K & L Corn	8.6	3.7	2.9		8.7	4.5	2.0	
K & L Corn Meal	8.6	3.7	2.9		8.9	4.2	2.5	
K & L Layer 1	15	2.5	3.5		15.3	5.4	1.9	
K & L Layer 2	15	2.5	3.5		15.1	2.8	1.8	
K & L Layer 3	15	2.5	3.5		15.3	2.9	2.0	
K & L Pig Grower Pellets	15	3	4		15.3	4.0	2.2	
K & L Pig Grower Pellets	15	3	4		15.9	3.7	3.7	
K & L Sow Feed Pellets	12	3	5		13.8	3.1	2.1	
K & L Sow Feed Pellets	12	3	5		12.0	3.6	2.8	
Kal Kan Foods, Inc.								
Kal Kan Chunky Bits-o-Beef for Cats	8	5	1.5	3	8.9	8.3	1.1	3.0
Kal Kan Salmon Supreme Dinner for Cats	8	5	1.5	3	11.1	7.5	0.5	2.5
Kal Kan Tuna 'n Chicken Platter	8	5	1.5	3	9.4	6.0	0.4	3.5
Kal Kan w/Catfish	8	5	1.5	3	12.1	10.7	0.4	2.3
Kal Kan w/Chunky Lamb	8	5	1.5	3	9.7	10.1	0.7	3.4

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
<b>Laddie Boy Pet Foods/Goff Cat Food Co. Div.</b>								
Goff Beef & Chicken Low Ash Cat Food	10	5	1	1.2	13.1	7.5	0.5	1.3
Goff Beef & Liver Low Ash Cat Food	10	5	1	1.5	10.8	8.4	0.4	1.2
Goff Beef Low Ash Cat Food	10	5	1	1.5	11.2	6.7	0.9	1.6
Goff Gourmet Stew Low Ash Cat Food	10	5	1	1.5	10.4	6.8	0.8	1.6
<b>Langs Dehy., Inc.</b>								
Alfalfa Pellets	17	2.7	9		16.3-	2.9	8.1	
Dehydrated Alfalfa Pellets	17	2.7	9		17.3	3.6	8.1	
<b>Lick Your Chops</b>								
LYC Adult Dog	25	12	4	7	28.1	11.7	2.7	7.3
LYC Kittens & Cats	31	15	4	4.5	31.7	14.5	2.0	7.2
LYC Puppies	28	11	4	7	29.9	11.7	2.5	7.6
<b>Maine Manna, Inc.</b>								
Maine Manna Wild Bird Food	4	40	4		9.9	42.3	4.1	
<b>Manna Pro Corp.</b>								
Carnation Veal-Glo	25	3	6	10	21.1-	11.8	0.6	6.7
Classic Cat Dinner	30	8	4.5		31.1	10.8	2.5	
Classic Chunks Dog Food	21	8	5.5		22.5	10.5	3.9	
Double Duty Rabbit Pellets	16	2	22		16.3	3.6	17.1	
Egg Maker 13 Crumbles	13	3	7		14.8	3.6	3.4	
Manna Pro Calf Manna	25	3	6		25.6	4.1	3.2	
Manna Pro Calf-Manna	25	3	6	10	32.9	3.7	3.7	7.2
Manna Pro Classic Cat Dinner	30	8	4.5		30.8	8.9	2.1	
Manna Pro Classic Chunks Adult Dog Food	21	8	5.5		22.2	9.1	3.2	
Manna Pro Classic Kennel Mix	21	8	5.5		21.2	8.1	3.9	
Manna Pro Concentrated Ration/All Animals	25	3	6	10	25.3	3.9	3.3	7.3
Manna Pro Double Duty Compl Rabbit Pellets	16	2.5	20		16.8	3.1	17.3	
Manna Pro Family Farm Chick Starter (Med)	18.5	2.5	5.5		18.5	3.2	2.9	
Manna Pro Family Farm Egg Maker Poultry Fd	13	5	7		15.9	4.8	3.9	
Manna Pro Fine Cut Corn	8	3	3		8.0	2.8	1.0	
Manna Pro Game Bird Breeder	20	3	6		19.1-	3.3	2.1	
Manna Pro Rabbit Feed Ration 18	18	2	20	10	16.5-	2.5	16.4	7.5
Manna Pro Round-Up Horse Feed	12	2	25		13.2	2.7	17.9	
Manna Pro Scratch Grains	8	2	4		8.8	4.1	2.5	
Manna Pro Smorgasbord	10	4	7.5		11.3	8.5	2.7	
Manna Pro Super Foal	17	2.5	7		16.7	4.1	4.0	
Manna Pro Sweet Rely Complete Feed	12.5	1.5	15		13.9	2.3	6.7	
Manna Pro Whole Corn	8	3	4		8.0	3.2	1.9	
Small World Smorgasbord	10	4	7.5		9.8	4.1	6.9	
<b>Manufacturer unknown</b>								
Double Diamond Hi Fat Linseed Oilcake Meal	33	4	9		31.8-	8.5	8.5	
Northern Pride Race Horse Oats	11	3	12		11.6	3.8	10.1	
Northern Pride Steam Rolled Barley Flakes	11	2	6		12.2	3.2	5.8	

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Murray Elevator								
Nelson's Sterling Silver Cup Fish Fd Salm 2	52	14	3	12	53	20.1	0.6	10.8
Nelson's Sterling Silver Cup Fish Fd Salm 3	48	11	3	12	49.4	15.0	1.0	8.9
Nelson's Sterling Silver Cup Fish Fd Salm 4	48	11	3	12	49	13.6	1.2	8.9
Nelson's Sterling Silver Cup Fish Feed 3/16	38	10	4	12	38.9	14.5	2.9	8.0
Nelson's Sterling Silver Cup Fish Feed 3/32	38	10	4	12	40.3	15.0	3.1	9.0
Nelson's Sterling Silver Cup Fish Feed Brd	45	8	4	12	50.2	9.4	1.6	9.6
Silver Cup Soft Moist Fish Fd Trout Salmon	44	16	3	12	48.6	22.2	0.5	9.1
Silver Cup Soft Moist Fish Fd Trout/Salm 2	44	16	3	12	50.7	16.2	1.8	10.0
Silver Cup-Soft Moist Fish Fd Trout/Salm 2	44	16	3	12	50.7	16.1	0.7	10.3
Nature Center Associates, Inc.								
Bird Seed Savings Day Wild Bird Food	10	3	9		15.6	2.7	7.8	
Nutro Products, Inc.								
Nutro Max Kibble Dog Food	26	16	4		26.9	17.5	3.0	
Nutro Max Spec/Senior/Less Act/Ovrwgt Dog	16	8	4.5		17.8	4.7-	3.7	
Nutro May Puppy Maximum Nutrition	28	17	4	9	27.8	16.1	3.0	8.1
Nutro Premium Nutrition Kibble Dog Food	25	12	4.5		25.3	11.7	2.9	
Old Mother Hubbard Dog Food Co., Inc.								
Old Mother Hubbard Kibbled Biscuits	24	7	3		25.6	7.8	2.0	
Piasa Pet Products, Inc.								
Bow Wow Bite Size Dog Food	21	8	5		21.0	13.8	4.4	
Bow Wow Bite Size Dog Food Compl & Balanced	21	8	8		21.3	8.2	5.9	
Bow Wow High Protein 26% Formula Dog Food	26	10	4		26.0	12.0	4.7	
Kasco Dog Food Chunks	25	12	4		25.0	12.8	3.4	
Kasco Dog Food Handlers Choice	21	8	8		21.0	8.1	6.1	
Kasco Dog Food Mini Chunks	25	12	4		24.5	13.1	2.4	
Kasco Dog Food Profess Formula High Prot	25	15	4		25.6	15.9	3.4	
Kasco Hi-Energy Dog Food	30	20	4		29.2	18.7	3.1	
Kasco High Energy Dog Food	30	20	4		29.9	20.2	2.9	
Kasco Lite Dog Food Low Calorie	16	6	5		16.4	6.3	2.7	
Pro-Pet, Inc.								
Big Red Beef 'n Cheese Dinner Dog Food	11	5	1.8		11.1	5.7	1.7	
Big Red Beef Chunks 'n Gravy Dog Food	11	5	1.5		18.4	4.9	1.2	
Big Red Beef Dinner Dog Food	11	5	1.5		10.3-	7.6	1.5	
Big Red Chopped Chicken/Chicken Parts Dog Food	10	8	1.5		11.1	12.8	1.3	
Big Red Dog Food	21	8	5.5		20.7	8.4	3.6	
Big Red Dog Food Nuggets Dog Food	21	8	5.5		21.1	7.5	4.3	
Big Red Guinea Pig Food	18	4	15		18.2	5.9	13.6	
Big Red Guinea Pig Food	18	4	15		18.0	5.4	15.8	
Big Red High Energy Dog Food	25	10	5		25.9	10.5	3.3	
Big Red High Energy Dog Food	25	10	5		25.1	9.1	3.5	
Big Red High Energy Dog Food	26	11	5		26.3	11.1	5.0	
Big Red Lamb Chunks Dinner Dog Food	11	7	1.5		14.5	9.3	1.4	

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Big Red Nuggets Dog Food	21	8	5.5		20.3	7.4	4.3	
Big Red Nuggets Dog Food	21	8	5.5		21.4	8.4	3.6	
Big Red Nuggets Dog Food	21	8	5.5		21.1	7.7	3.9	
Big Red Pardner Dog Food	21	6	5.5		21.3	7.3	4.0	
Big Red Pardner Dog Food	21	6	5.5		21.2	6.3	3.7	
Big Red Producers' Choice 15 Rabbit Food	15	2	18		15.0	2.4	15.9	
Big Red Producers' Choice 18 Rabbit Food	18	2	15		17.9	2.9	15.2	
Big Red Producers' Choice 18 Rabbit Food	18	2	15		17.4	2.3	12.9	
Big Red Rabbit Food	15	2	18		15.0	4.8	16.9	
Big Red Rabbit Food	15	2	18		15.6	1.5-	16.9	
Big Red Rabbit Food	15	2	18		15.0	3.3	17.8	
Big Red Rabbit Food	15	2	18		14.8	9.0	17.1	
Big Red Ration Dog Food	9	2	1.5		13.1	2.7	1.4	
Lil Red Beef 'N Liver Cat Dinner Low Ash	10	5	2	1.5	13.4	10.5	1.8	0.5
Lil Red Beef Cat Dinner Low Ash Formula	10	5	2	1.2	12.3	10.4	1.6	1.0
Lil Red Liver 'N Bacon Cat Dinner	10	5	2	1.5	10.6	7.9	1.8	0.8
Lil Red Tuna Flavor Cat Dinner	31	10	3	5.5	31.2	8.0-	1.6	6.0
Rise Floating Fish Diet	24	4	6		25.2	5.6	3.7	
Ralston Purina Co.								
Hi O 28-56 - Med 250	19	7	5		19.4	7.8	4.8	
Purina Alley Cat	30	8	4.5		30.5	13.1	4.6	
Purina Butcher's Blend Bacon/Cheese/Beef Fl	21	12	4.5		20.8	13.0	2.0	
Purina Butcher's Blend Beef/Bacon/Liver Dog	21	8	4.5		21.5	7.6	2.3	
Purina Cat Chow	30	8	4.5		30.1	9.7	2.3	
Purina Chuck Wagon Lean Dog Food	21	6	4.5		21.8	9.4	2.6	
Purina Dealer's Pride	21	7	6		21.0	7.2	4.1	
Purina Dealers Pride	21	7	6		25.3	9.5	3.0	
Purina Dog Chow	21	8	4.5		21.1	8.7	2.7	
Purina Dog Chow	21	8	4.5		21.0	8.6	2.5	
Purina Dog Chow	21	8	4.5		23.0	17.5	2.9	
Purina Dog Food Adult Formula	25	15	3		26.0	17.3	2.6	
Purina Duck Grower	16	3	5		19.1	3.6	4.1	
Purina Field N Farm Plus Dog Meal	24	8	6		24.0	7.8	1.2	
Purina Fit & Trim Lo Fat	14	5	10		14.2	7.7	8.1	
Purina Gamebird Chow	20	2.5	7		25.1	2.9	4.1	
Purina Goat Chow	16	2.5	9		16.1	3.6	4.6	
Purina Grain Land Coarse Cracked Corn	8	3.5	3		8.0	3.4	1.5	
Purina Gravy Beef Flavor/Dog	21	8	4.5		21.0	10.7	2.6	
Purina Gravy Dog Food	21	8	4.5		21.5	9.6	3.5	
Purina Guinea Pig Chow	18	4	16	9	18.8	5.2	12.7	7.5
Purina Hi Pro	27	10	4		26.1-	10.9	2.5	
Purina Hi Pro Dog Meal	27	10	4		27.2	13.0	2.2	
Purina High Octane Lactation Chow	14	4	4		14.0	7.5	2.5	
Purina Hog Grower Med 50 TM	16	2.5	5		15.9	2.8	2.5	
Purina Horse Chow #100 Active Pleasure	10	2	30		12.8	2.5	26.0	
Purina Lab Chows #5001 Control Factor	23	4.5	6	8	23.8	4.8	3.6	7.0
Purina Lab Chows Control Factor Monkey	15	5	6	5	17	6.1	4.6	4.8

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Purina Layena Poultry Feed 16	16	1.5	7		15.5	2.4	6.0	
Purina Low Fat Fit Trim for Dogs	14	5	10		14.3	7.3	9.4	
Purina Meat Builder MP	20	3	5		20.0	6.2	3.6	
Purina Meow Mix	30	8	4		29.2	10.2	2.6	
Purina Meow Mix	30	8	4		31.2	9.8	2.6	
Purina Mills Select Seed Cockatiel Food	12	4	10	4	12.0	9.7	10.0	3.6
Purina Mills Select Seed Parakeet Food	14	3	8	4	14.2	4.8	5.9	3.6
Purina Mills Select Seeds Parrot Food	14	13	19	4	14.2	17.1	13.0	2.3
Purina Nutri Blend Gold	14	7	6	6.5	14.1	12.5	4.0	5.0
Purina Nutri Blend Green Bird Food	18	3.5	7	7	18.1	4.1	5.6	7.1
Purina Omolen 200 Performance Brdng Horse	14	4.5	6.5		15.1	4.3	4.2	
Purina Omolene 300 for Foals/Brood Mares	16	3.5	7		17.1	4.1	4.6	
Purina Omolene 300 Horse Feed	16	3.5	7		17.1	3.5	4.8	
Purina Open Land Whole Corn	8	3.5	3		7.8	4.6	1.9	
Purina Pig Starter	19	4	5		20.7	5.6	2.9	
Purina Pig Starter Med 250	19	4	5		20.5	9.0	4.7	
Purina Pigeon Chow Checkers	15	2.5	5.5		15.1	4.4	5.8	
Purina Pigeon Chow Checkers	15	2.5	5.5		15.6	3.0	4.5	
Purina Pork Finisher (Med) BN	12	2.5	7		12.6	2.9	7.3	
Purina Pork Finisher BN (Med)	12	2.5	7		12.3	3.6	4.0	
Purina Pro Grains for Pigeons	11	2	3		12.1	6.6	3.0	
Purina Pro Plan Dog Food	28	18	3		28.3	30.6	1.9	
Purina Pro Plan Dog Food	30	20	2.5		32.8	27.5	1.6	
Purina Pro Plan Dog Food (Adult)	25	15	3		25.9	24.7	2.6	
Purina Pro-Plan Adult	25	5	3		26.1	14.6	1.1	
Purina Pro-Plan Dog Food	25	15	3		26.1	15.0	2.1	
Purina Pro-Plan Dog Food	28	18	3		28.6	18.2	1.5	
Purina Puppy Chow	27	9	5		27.0	11.3	1.6	
Purina Puppy Chow	27	9	5		27.0	11.1	3.1	
Purina Puppy Chow Beef Flavor	27	9	5		27.0	10.7	1.2	
Purina Puppy Chow Extra Nutrition Puppies	27	9	5		27	8.5	1.6	
Purina Pure Pride #200 Horse Feed	14	2.5	8		14.9	3.3	5.8	
Purina Pure Pride 100	10	2.5	12		11.2	4.0	8.3	
Purina Pure Pride 200	14	2.5	8		14.3	3.8	6.3	
Purina Rabbit Chow Complete Blend	14	2	20	10	14.6	3.3	15.1	6.6
Purina Rabbit Chow Complete Blend	14	2	20	10	15.8	2.9	17.1	6.8
Purina Rabbit Chow Complete Blend	14	2	20	10	14.9	2.8	17.8	7.0
Purina Rabbit Chow Performance Blend	17	2	18	8	15.2-	3.0	13.8	7.2
Purina Scratch Grains	8	1.5	4.5		9.9	2.6	4.0	
Purina Songberry Wild Bird Feed	10	3	6.5		11.8	6.8	4.2	
Purina Start & Grow MPN	17	3	5		17.0	5.9	4.5	
Purina Sunflower Seed Oil Type Variety	15	34	32		17.1	38.5	13.0	
Purina Sweetena Horse Feed	10	2	15		10.5	2.8	10.7	
Purina Trout Chow	40	10	5	10.5	40.0	9.9	1.7	9.5
Purina Trout Chow	40	10	5	10.5	40.3	10.7	2.5	9.0
Purina Trout Chow	40	10	5	10.5	40.0	9.3	2.4	8.9
Purina Wild Bird Chow	10	3	7		10.8	14.8	14.6	
Purina Wild Bird Chow	10	3	7	2.5	10.6	6.2	6.1	2.5



Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Rodent Lab Chow 5001	23	4.5	6	8	22.6	4.7	4.2	6.7
Select Seeds Parrot Feed	14	13	19	4	13.6	15.2	15.1	2.3
Souderton Bird Food Co.								
All Season Wild Bird Food	9	3.5	8		9.8	4.3	3.3	
Stop & Shop								
Stop & Shop Beef & Liver Dinner	10	5	1	4	10.1	10.4	1.1	2
Stop & Shop Beef and Cheese Dinner for Dogs	9	5	1.8		11.6	7.6	0.5	
Stop & Shop Beef Chunks/Meat by-Prod/Dogs	12	7	1.5	3	12.0	7.7	0.6	1.9
Stop & Shop Beef Dinner	11	7	1		12.0	7.1	0.2	
Stop & Shop Chicken & Liver Dog Food	11	8	1		11.4	16.0	0.2	
Stop & Shop Chicken Dinner for Cats	10	4	1	4	10.7	5.5	0.2	3.1
Stop & Shop Chicken Dinner for Dogs	10	8	1.5		11.8	8.1	0.4	
Stop & Shop Chicken Dinner/Cat Food	10	4	1	4	10.9	10.5	0.4	2.3
Stop & Shop Chopped Beef Dinner for Dogs	10	5	1.5		11.8	8.3	0.8	
Stop & Shop Chopped Grill Dinner	12	7.5	1	2.6	14.8	7.8	0.3	1.2
Stop & Shop Chopped Grill Dinner for Cats	11.5	6	1	2.7	14.5	7.1	0.5	1.6
Stop & Shop Country Chicken Dinner	12	5	1	3.2	12.0	11.1	1.2	1.9
Stop & Shop Fish Flavor Cat Food	10	2	1.5	4	9.8	2.5	0.7	2.9
Stop & Shop Fish/Chicken by-Prod/Liver/Kidn	12	6	1	4	13.7	11.2	0.8	1.5
Stop & Shop Fish/Chicken by-Prod/Liver/Kidn	12	6	1	4	14.8	7.1	0.2	2.0
Stop & Shop Fish/Chicken by-Prod/Liver/Kidn	12	6	1	4	14.8	8.0	0.2	2.5
Stop & Shop Horsemeat Chunks Dinner for Dog	11	5	1.5		11.0	5.2	1.0	
Stop & Shop Lamb Chunk for Dogs	10	6	1.5		13.8	7.6	1.0	
Stop & Shop Liver & Chicken Dinner	15	5	1	2.5	15.8	10.5	0.7	2.0
Stop & Shop Liver & Chicken Dinner	15	5	1	2.5	17.8	6.8	0.2	2.5
Stop & Shop Liver Chunks Dinner for Dogs	11	5	1.5		11.1	7.5	0.7	
Stop & Shop Mackerel Dinner	14	3	1	3.5	16.4	5.9	0.2	2.5
Stop & Shop Mackerel Dinner for Cats	14	3	1	3.5	16.4	6.3	0.5	2.0
Stop & Shop Meat Flavor Cat Food	10	2	1.5	4	10.6	3.9	0.5	2.2
Stop & Shop Seafood Dinner for Cats	14	3	1	3.5	13.1-	6.9	0.2	2.4
Stop & Shop Seafood Dinner for Cats	14	3	1	4	17.0	6.8	0.5	3.0
Stop & Shop Seafood Dinner/Cat Food	14	3	1	4	18.7	3.7	0.4	2.4
Stop & Shop Seafood Dinner/Cat Food	14	3	1		15.1	3.8	0.3	
Stop & Shop Tuna & Chicken Dinner for Cats	14	5	1	4	17.2	6.8	0.6	2.9
Stop & Shop Tuna & Chicken Dinner/Cat Food	14	5	1	4	16.8	4.9	0.7	2.3
Stop & Shop Tuna & Egg Dinner Cat Food	14	2	1	3	18.6	6.2	1.1	1.7
Stop & Shop Tuna & Egg Dinner/Cat Food	14	2	1	3	18.4	3.9	0.6	1.6
Stop & Shop Tuna & Liver Dinner	14	2	1	4	15.9	1.9	0.4	1.7
Stop & Shop Tuna & Liver Dinner for Cats	14	2	1	4	17.4	3.1	0.1	2.3
Stop & Shop Tuna Cat Food	19	2	1	2	20.3	3.3	0.2	1.3
Stop & Shop Turkey & Giblets Dinner for Cat	13	6.5	1	2.9	14.1	8.8	0.2	1.4
Stop & Shop Turkey & Giblets Dinner/Cat Fd	13	4.5	1	2.9	13.0	6.1	1.1	1.7
Sun Flower, Inc.								
Feathered Friend "Birdsnack" Wild Bird Food	11	6	10.5		11.8	6.0	4.9	
Feathered Friend "Favorite" Wild Bird Food	10.5	4	8		11.3	5.6	6.3	

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Feathered Friend "Finch Delight" Wild Bird	19	32	8		21.3	38.5	5.3	
Feathered Friend Birdsnack Wild Bird Fd Mix	11	6	10.5		12.3	3.0-	7.0	
Feathered Friend Birdsnack Wild Bird Fd Mix	11	6	10.5		12.0	8.8	4.5	
Feathered Friend Favorite Wild Bird Fd Mix	10.5	4	8		11.3	2.7-	5.2	
Feathered Friend Favorite Wild Bird Fd Mix	10.5	4	8		11.9	4.6	6.5	
Feathered Friend Finch Delight	19	32	8		21.6	31.5	3.7	
Feathered Friend Flyers Choice Wild Bird Fd	14	20	12		14.6	25.2	3.8	
Feathered Friend Flyers Choice Wild Bird Fd	14	12	20		15.0	27.6	12.9	
Feathered Friends Mix Favorite Wild Bird Fd	10.5	4	8		12.6	6.1	7.6	
Flyers Choice Wild Bird Food Mixture	14	20	12		15.3	23.2	10.8	
The Iams Company								
Eukanuba Dog Food	30	20	4		30.3	22.1	2.9	
Eukanuba Dog Food	30	20	4		31.1	24.5	2.9	
Eukanuba for Puppies	32	21	4		31.3	21.4	1.8	
Eukanuba IAM Food Premium	30	20	4		30.3	19.0	3.6	
IAMS Chunks Dog Food	26	15	5		26.5	14.5	3.1	
IAMS Eukanuba Dog Food	30	20	4		31.1	20.6	2.9	
Iams Eukanuba for Dogs	30	20	4		32.9	19.5	2.5	
IAMS Mini Chunks Dog Food	26	15	5		27.0	15.7	2.8	
IAMS Puppy Food	28	17	4		28.9	16.7	1.6	
IAMS Quality High-Nutrition Cat Food	32	21	3	6.5	32.8	25.4	1.2	5.8
Mini-Chunks Quality High Nutrit Dog Food	26	15	5		26.7	15.0	1.7	
The Quaker Oats Co.								
Ken-L Ration Professional Biskit for Dogs	22	7	3		23.6	7.3	1.9	
Ken-L-Ration Profess Bisket 100% Compl/Dogs	22	7	3		24.3	9.7	1.1	
Ken-L-Ration Profess Bisket 100% Compl/Dogs	22	7	3		23.7	8.5	1.6	
TizWhiz Distributors, Inc.								
TizWhiz Broodmare Ration	9	2	5		10.0	7.1	3.2	
TizWhiz High Quality Horse Feed	16	2.5	6		16.8	3.4	5.9	
TizWhiz Horse Food	16	2.5	6		17.3	6.6	1.8	
Triumph Pet Industries, Inc.								
Triumph Beef Chunks Dog Food	11	5	1.5	3.5	11.1	7.0	0.6	1.8
Triumph Chicken Dog Food	10	5	1	2	10.1	8.2	0.7	2.3
Triumph Hi-Top Dog Food	25	12	4		26.5	9.9-	1.8	
Triumph Hi-Tor Dog Food	25	12	4		28.4	11.9	1.9	
Triumph Horse Meat Dog Food	12	5	1	1	12.3	8.7	0.8	1.8
Triumph Low Ash Beef 'N Heart	10	6	1	1.2	11.8	7.1	0.6	1.1
Triumph Low Ash Beef 'N Kidney	10	6	1	1.2	12.1	8.7	0.9	0.9
Triumph Low Ash Beef 'N Liver	11	6	1	1.2	11.0	9.5	0.9	0.8
United Cooperative Farmers, Inc.								
TizWhiz Horse Feed	16	2.5	6		16.0	3.2	5.2	
UCF 16 Dairy Coarse	16	3	8		17.0	3.7	6.0	
UCF 16 Profit Maker	16	3.5	10		15.7	5.2	9.4	

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
UCF 26% High Protein Show N Grow Dog Food	26	10	4.5		26.3	10.7	3.3	
UCF 27% Hi-Protein Show 'N Grow Dog Food	27	10	4.5		27.4	11.1	4.1	
UCF A M Grower	15	3.5	5.5		15.6	3.8	3.6	
UCF Alfalfa Pellets	17	2	27		16.7	4.1	24.3	
UCF Alfalfa Pellets	17	2	27		17.2	4.1	21.9	
UCF Best Friend 21% Protein Dog Food	21	8	4.5		21.4	8.5	3.9	
UCF Best Friend Dog Food	21	8	4.5		21.6	9.1	4.1	
UCF Calf Grower	18	3	7		18.0	3.2	7.2	
UCF Complete Broiler Crumbles	21	5.5	3.5		21.1	4.1-	2.9	
UCF Complete Layer	15	3	5		16.0	3.6	4.9	
UCF Complete Layer Crumbles	15	3	5		14.7	3.0	5.4	
UCF Complete Layer Pellets	15	3	5		15.7	3.8	2.0	
UCF Complete Layer Pellets	15	3	5		15.4	3.5	4.6	
UCF Corn Meal	8.8	3.8	2.7		9.3	3.9	2.9	
UCF Country Fare Horse Food	10	3	9		10.0	3.3	7.3	
UCF Endurance Horse Feed	12	3	9		12.0	3.3	3.1	
UCF Endurance Horse Feed	12	3	9		12.1	3.3	4.0	
UCF Equipro 14 Horse Feed	14	2.5	15		14.0	3.6	10.0	
UCF Equipro 14 Horse Feed	14	2.5	15		14.4	3.2	12.6	
UCF Fit & Show	14	3	8		14.0	3.8	7.7	
UCF Fit & Show	14	3	8		14.9	4.1	6.3	
UCF Guinea Pig Pellets	24	2.5	12		20.6-	3.4	12.3	
UCF Hog Grower	15	3	7		15.3	4.8	4.7	
UCF Hog Grower	15	3	7		16.7	3.7	4.2	
UCF Pig Starter	18	4	5		18.1	3.4-	2.4	
UCF Pride Horse Feed Pellets	13	2	15		12.8	4.2	14.7	
UCF Pure Puppy Food	28	9	4.5		27.5	9.6	2.4	
UCF Rabbit Feed	17	3	17		17.9	5.0	11.5	
UCF Rabbit Pellets	17	3	17		16.2-	4.9	16.1	
UCF Scratch Feed	9	2.5	7		9.5	3.2	2.3	
UCF Scratch Food	9	2.5	7		9.3	3.0	3.9	
UCF Show 'N Grow Dog Food	26	10	4.5		27.4	9.2	1.7	
UCF Show 'N Grow Dog Food	27	10	4.5		27.4	10.3	2.5	
UCF Soybean Meal	48	0.9	3.4		48.0	2.6	3.3	
UCF Soybean Meal	48	0.9	3.4		49.3	1.4	2.5	
UCF Turkey Finisher	18	3	5		18.1	3.6	3.6	
UCF Turkey Finisher	18	3	5.5		18.0	4.1	1.9	
UCF Turkey Grower Medicated	20	3	5.5		16.0-	3.7	2.4	
UCF Turkey Grower Pellets	20	3	5.5		20.1	4.4	2.8	
UCF Wild Bird Food	10	3	9		11.7	6.3	2.8	
UCF Wild Bird Food	10	3	9		10.8	6.7	2.5	
UCF-16 Dairy	16	3.5	8		16.8	3.7	5.0	
UCF-16 Profit Maker	16	3.5	10		16.4	2.6-	5.2	
UCF-20 Profit Maker	20	3.3	10.3		20.3	2.7-	5.4	
Wauregan Grain Co., Inc.								
Wauregan Complete Calf Ratio Phase I	16	2	20		14.6-	4.1	15.2	
Wauregan Milkers Choice 1680	16	3	8		18.4	3.1	8.5	

Table 1. Analysis of individual samples.

Manufacturer and Brand	Nutrients claimed, %				Nutrients found, %			
	Protein	Fat	Fiber	Ash	Protein	Fat	Fiber	Ash
Wauregan 16% Pork Maker Plus	16	3	4.5		16.5	3.0	3.5	
Wauregan 16% Pork Maker Plus	16	3	4.5		17.7	3.3	3.6	
Wauregan Calf Starter Texturized	20	3	8		23.4	1.8-	5.6	
Wauregan Choice Complete Horse Feed	14	2.5	20		13.9	3.0	17.1	
Wauregan Compl Calf Ration Phase I (Med)	15	2	20		17.1	3.0	13.9	
Wauregan DeLuxe Wild Bird Feed	12	12	14		12.0	19.5	9.5	
Wauregan Dog Food "26"	26	10	4		26.8	10.8	3.6	
Wauregan Dog Food Chunks "21"	21	8	4		22.2	9.7	3.5	
Wauregan Layer	15	3	4		15.6	3.2	3.4	
Wauregan Layer	15	3	4		14.7	2.8	2.1	
Wauregan Layer	15	3	4		15.4	3.0	3.9	
Wauregan Stableman's Choice	14	2.5	15		15.7	2.6	5.9	
Wauregan Stableman's Choice Horse Feed	14	2.5	15		14.3	3.3	10.8	
Wauregan Texturized 14%	14	3	8		15.9	2.7	8.5	
Wauregan Texturized 16%	16	3	8		17.3	4.2	7.4	
Wauregan Trail Ride	12	3	9		13.4	3.2	5.2	
Wauregan Trail Ride Horse Feed Pellets	12	3	9		12.8	3.7	9.7	
Wauregan Trail Ride Horse Feed Pellets	12	3	9		12.8	6.5	6.5	
Wauregan Trail Ride Horse Feed Texturized	12	3	9		13.8	3.7	8.3	
Zeigler Bros., Inc.								
3/16 High Performance Trout Grower	45	12	3		45.7	14.5	2.0	
3/16 High Performance Trout Grower	45	12	3		47.2	14.7	1.8	
3/16 High Performance Trout Grower	45	12	3		47.2	13.3	2.3	
3/16 High Performance Trout Grower	45	12	3		46.3	14.0	1.5	
3/16 High Performance Trout Grower	45	12	3		46.3	14.2	2.9	
3/32 High Performance Trout Grower	45	12	3		45.7	14.1	2.8	
3/32 High Performance Trout Grower	45	12	3		46.3	15.7	1.8	
3/32 High Performance Trout Grower	45	12	3		46.2	12.8	2.4	
3/32 High Performance Trout Grower	45	12	3		46.4	14.3	1.4	
3/32 High Performance Trout Grower #2	45	12	3		46.4	12.8	1.4	
5/32 High Performance Trout Grower	45	12	3		44.6	14.4	1.9	
5/32 High Performance Trout Grower	45	12	3		45.9	13.9	2.1	
5/32 High Performance Trout Grower	45	12	3		45.9	13.7	2.6	
5/32 High Performance Trout Grower	45	12	3		48.5	13.6	1.6	
5/32 High Performance Trout Grower	45	12	3		48.5	13.2	2.4	

Table 2. Summary for each manufacturer of number of samples tested, number of guarantees for ash content, percentage of claims for each nutrient not meeting guarantees, and average percentage of guarantee for each nutrient.

Manufacturer	Samples (guarantees for ash)	% Not meeting guarantees				Average % of guarantee			
		protein	fat	fiber	ash	protein	fat	fiber	ash
Agway	86(2)	3	0	0	0	104	154	69	108
Bay-Mor Pet Feeds	8(3)	0	0	0	0	105	161	74	86
Best Feeds	2(2)	0	0	0	0	105	107	69	63
Cargill/Nutrena	54(6)	2	0	0	0	106	142	72	72
Carnation	8(4)	0	0	0	0	111	141	74	94
Central CT Co-op	17(0)	0	0	0	-	102	133	62	-
Chesapeake Dehyd.	1(0)	0	0	0	-	117	300	93	-
Continental Grain	12(0)	0	0	0	-	103	109	80	-
Derby Feed	5(0)	0	0	0	-	128	179	48	-
Farm Bureau	1(0)	0	0	0	-	102	118	44	-
Farnum	1(0)	0	0	0	-	113	145	46	-
First National	1(0)	0	0	0	-	103	98	115	-
Gaines Pet Food	3(0)	0	0	0	-	101	114	52	-
H.K. Webster	127(2)	2	2	0	0	105	135	70	90
K & L Feed Mill	20(0)	30	0	0	-	99	120	60	-
Kal Kan Foods	5(5)	0	0	0	0	128	170	41	98
Laddie Boy	4(4)	0	0	0	0	114	147	65	100
Langs Dehyd.	2(0)	50	0	0	-	99	120	90	-
Lick Your Chops	3(3)	0	0	0	0	107	100	60	124
Maine Manna	1(0)	0	0	0	-	248	106	103	-
Manna Pro	24(4)	13	0	0	0	105	143	57	72
Murray Elevator	9(9)	0	0	0	0	108	129	43	78
Nature Center	1(0)	0	0	0	0	156	90	87	0
Nutro Products	4(1)	0	25	0	0	104	90	74	90
Old Mother Hubbard	1(0)	0	0	0	-	107	111	67	-
Piase Pet Prod.	10(0)	0	0	0	-	100	112	79	-
Pro-Pet	30(4)	3	0	0	0	108	140	84	70
Ralston Purina	78(18)	3	0	0	0	104	146	70	82
Souderton	1(0)	0	0	0	-	109	123	41	-
Stop & Shop	37(28)	3	0	0	0	114	160	47	61
Sun Flower	12(0)	0	17	0	-	110	114	68	-
The Iams Co.	11(1)	0	0	0	0	103	105	59	89
The Quacker Co.	3(0)	0	0	0	-	109	121	51	-
TizWhiz	3(0)	0	0	0	-	108	252	64	-
Triumph Pet Ind.	8(6)	0	13	0	0	108	135	66	96
United Coop Farm.	47(0)	6	9	0	-	102	133	71	-
Wauregan Grain	21(0)	5	5	0	-	107	123	80	-
Ziegler Bros.	15(0)	0	0	0	-	103	116	69	-
Mfg. Unknown	3(0)	33	0	0	-	104	166	92	-



## The Connecticut Agricultural Experiment Station,

founded in 1875, is the first experiment station in America. It is chartered by the General Assembly to make scientific inquiries and experiments regarding plants and their pests, insects, soil and water, and to perform analyses for State agencies. The laboratories of the Station are in New Haven and Windsor; its Lockwood Farm is in Hamden. Single copies of bulletins are available free upon request to Publications; Box 1106; New Haven, Connecticut 06504.

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