

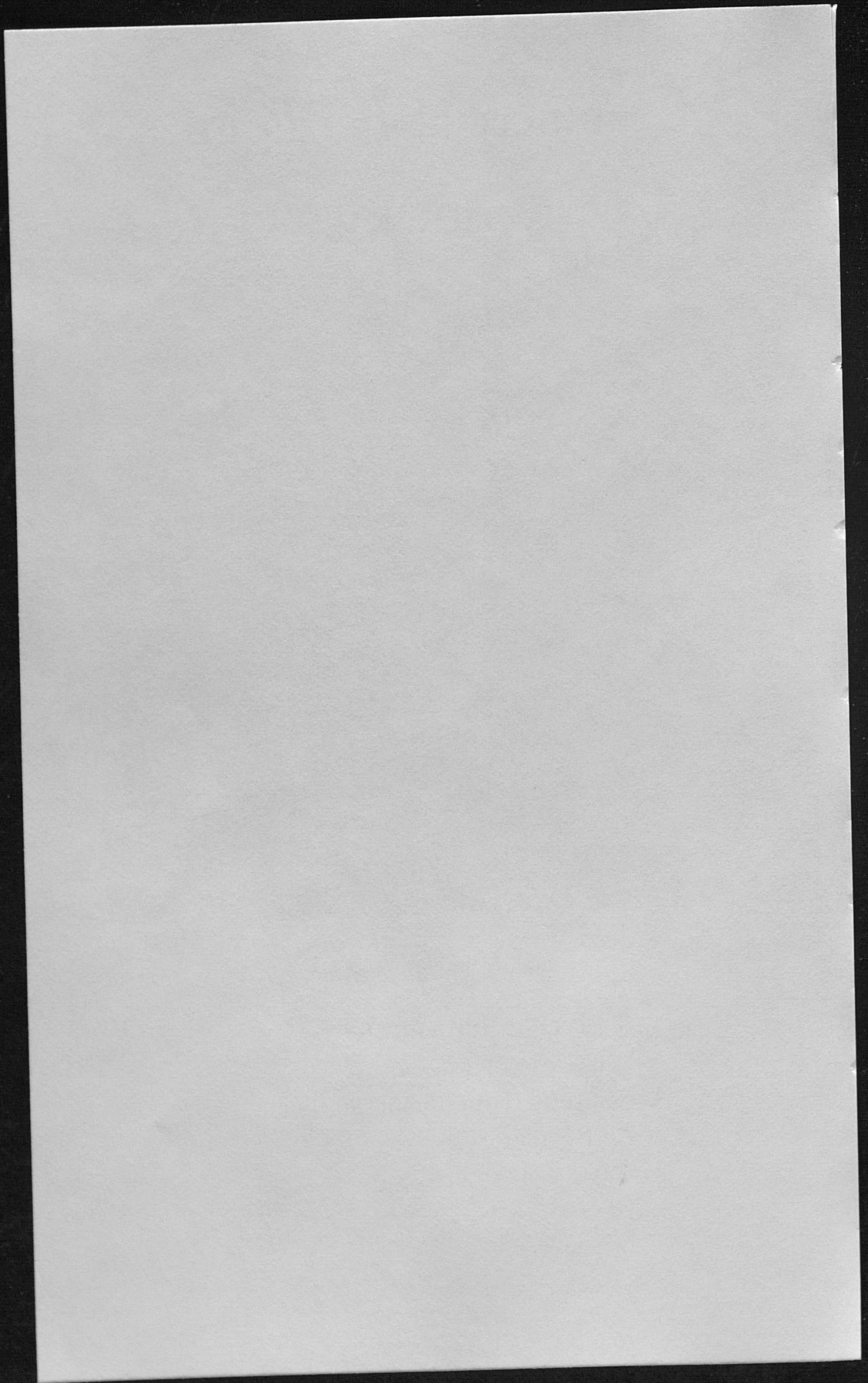
Commercial Feeds in Kentucky

1970



Regulatory Bulletin 209

University of Kentucky
College of Agriculture
Agricultural Experiment Station
Regulatory Services
Lexington



FEED SECTION

DIVISION OF REGULATORY SERVICES
KENTUCKY AGRICULTURAL EXPERIMENT STATION

Bruce Poundstone, Director

Dr. Paul R. Caudill, Assistant Director

Glynn E. Williamson, Feed Registrar

Neville Hulette, Auditor

FIELD INSPECTION

Wilson M. Routt
Joe B. Brown
Elmer Cottongim
Ben W. Cox

Claude E. Hensley
Wallace L. King

Ellis Hugh Ray
William K. Robertson
Eugene G. Vanderpool
Samuel D. Whitehead

LABORATORY

Valva C. Midkiff, Chief Chemist
and Coordinator Chemical Laboratories

John T. Adair
Barbara Anderson*
Elizabeth Brown
Judy Dombroski

Carolyn Sue Herald
Norma Holbrook

Oscar McNew
Ellen Perry
Robert N. Price
J. A. Shrader

CONTENTS

Page

Introduction & Feed Monitoring Program.....	4
Estimated Tonnage of Feed Sold in 1970.....	5
Companies with Feed Registered in 1970.....	6
Average Composition of more Common Feedstuffs.....	15
Miscellaneous Samples Analyzed 1947- 70.....	17
Urea in Feeds.....	18
Changes in Product Names.....	19
The Medicated Feed Label.....	20
Table 1 - Report of Official Samples Analyzed 1970.....	22
Table 2 - Samples Classified as "Not Passed".....	28

This bulletin compiled and prepared by Bruce Poundstone and Glynn E. Williamson
Analytical data by Laboratory Staff

* Resigned October 1970

INTRODUCTION

This bulletin contains the results of inspection and analysis of commercial feeds sold in Kentucky during the calendar year of 1970, and other information helpful to those interested in this field.

During 1970, 2,803 official samples of feed were secured by inspectors. 2,555 or 91% of these passed inspection and analysis satisfactorily. During 1969, 3,043 official samples were secured and 90.5% of these were passed. The total estimated tonnage of commercial feeds distributed in Kentucky for 1970 was 714,026 tons. In 1969, the tonnage was 651,787 tons.

The feed control section of the Division of Regulatory Services handles all matters concerning feed inspection, registration, analysis, and compliance.

FEED MONITORING PROGRAM

All feeds sold in Kentucky must be registered with the Feed Control Section. Registration forms are available upon request. There is no charge for registration. Once registered, it continues in effect until re-registration is called for. Most companies keep all registrations current by cancelling feeds no longer manufactured and by adding new feeds. Inspectors are constantly in the field checking with dealers to assist them with their records and feed manufacturing practices. Inspectors examine labeling and sample feed. Samples are analyzed in the chemical laboratory. Samples that do not come up to the guaranteed analysis are listed in an annual feed bulletin published by the Section. Those companies having seriously deficient feed samples are advised by telephone or letter regarding the deficiency and on occasions when the situation is serious, stop sale notices may be issued until the deficiency can be corrected. Feed inspection and analysis is becoming more and more complicated. The Feed Control Program protects the feeder by requiring proper labeling, adequate purpose statements, precautions and warnings where necessary and checking contents of feeds with the guarantees. Manufacturers and dealers are thus enabled to do business on an orderly and equitable basis.

During the year inspectors brought in 103 samples of feeds that were not registered. Feed manufacturers have been most cooperative in registering such feeds. 49 stop sales were issued during the year on feeds. 16 of these were for record only as the feeds that were sampled had been sold before the results of analysis were available.

ESTIMATED TONNAGE OF SALES BY CLASS OF FEED,
KENTUCKY, 1970

<u>Mixed Feed</u>	<u>Tons</u>
Beef	34,268
Broiler	26,667
Calf	7,529
Dairy	175,804
Dog & Cat Foods	32,198
Horse & Mule Feed	24,396
Layer-Breeder	71,862
Mineral	9,426
Scratch Feed	5,279
Sheep	712
Starter-Grower	16,819
Swine	168,350
Turkey	2,081
Miscellaneous Mixed Feeds	<u>15,581</u>
 TOTAL MIXED FEEDS	 <u>590,972</u>
 <u>Straight Materials</u>	
Alfalfa Products	3,520
Animal Products	4,261
Barley Products	101
Beet Products	127
Brewery Products	915
Citrus Products	12
Corn Products	25,052
Cottonseed Products	6,334
Distillers Products	8,123
Drugs	10
Fats & Oils	10
Linseed & Flax	276
Marine Products	94
Milk Products	104
Molasses	16,378
Oat Products	2,791
Peanut Products	25
Rice Products	124
Soybean Products	29,336
Urea	794
Vitamins	407
Wheat Products	17,131
Miscellaneous Products	<u>7,129</u>
 TOTAL STRAIGHT MATERIAL	 <u>123,054</u>
 GRAND TOTAL	 <u>714,026</u>

COMPANIES HAVING FEED REGISTERED, 1970

Acme-Evans Co., Inc., Indianapolis, Ind.
46222

Adams Packing Assn., Inc., Auburndale,
Fla. 33823

Ade Farm Chemical Co., Inc., Tiskilwa,
Ill. 61368

Agricultural Supply Co., Inc., Owensboro,
Ky. 42301

Ag Services, Inc., Bowling Green, Ky. 42101

Agway, Inc., Country Best Feeds, Syracuse,
N.Y. 13201

Albany Mills, Albany, Ky. 42602

Albers Milling Co., Los Angeles, Ca. 90036

Allegre Milling Co., Allegre, Ky. 42203

Allen Canning Co., Siloam Springs, Ar.
72761

Allen County Seed Service, Scottsville,
Ky. 42164

Allen Products Co., Inc., Allentown, Pa.
18104

Allen Products Co., Inc., Crete, Nb. 68333

Allied Chemical Corp., Hopewell, Va. 23860

Allied Chemical Corp., Omaha, Nb. 68124

Allied Chemical Corp. Ag. Div., Morristown,
N.J. 07960

Allied Foods Inc., Atlanta, Ga. 30318

Allied Mills, Inc., Libertyville, Ill.
60048

Allison Mills, Inc., Little Rock, Ark. 72204

Alver Brothers Co., Milford, Ill. 60053

American Crystal Sugar Co., Denver, Co.
80202

American Cyanamid Co., Princeton, N.J.
08540

American Kennel Foods, Russellville, Ky.
42276

American Pet Food Co., Birmingham, Ala.
35223

American Rice Growers Coop. Assn., Lake
Charles, La. 70601

American Salt Corp., Des Plaines, Ill.
60018

American Salt Corp., Kansas City, Mo.
64111

Amory Cotton Oil Co., Inc., Amory, Miss.
38821

Anderson Farm Service, Lawrenceburg, Ky.
40342

Anderson & Spilman, Danville, Ky. 40422

Anglo Sweet Feed Mill, Inc., Owensboro,
Ky. 42301

Anheuser-Busch, Inc., St. Louis, Mo. 63118

Animal Nutrition, Inc., Belleville, Ill.
62223

Anvil Mineral Prod. Corp., Bay Springs,
Miss. 39422

Apex Feed & Supply, Inc., Marietta, O.
45750

Archer Daniels Midland Co., Minneapolis,
Mn. 55440

Arkansas Grain Corp., Stuttgart, Ark. 72160

Arkansas Rice Growers Coop., Stuttgart,
Ark. 72160

Armour Creameries, Springfield, Ky. 40069

Armour-Dial, Inc., Chicago, Ill. 60606

Armour & Co., Chicago, Ill. 60609

Ashland Milling Co., Ashland, Ky. 41101

Astor Products, Inc., Jacksonville, Fla.
32202

The Attala Co., Kosciusko, Miss. 39090

Aubrey Feed Mills, Inc., Louisville, Ky.
40204

Auburn Mills, Inc., Auburn, Ky. 42206

Aylor & Meyer Co., Aurora, Ind. 47001

Bagdad Roller Mills, Bagdad, Ky. 40003

Balfour, MacLaine, Inc., New York, N.Y.
10004

Baltz Bros. Packing Co., Nashville, Tenn.
37210

Barton Brands, Inc., Bardstown, Ky. 40004

Baughman Milling Co., Stanford, Ky. 40484

Bay State Milling Co., Leavenworth, Ks.
66048

Bay State Milling Co., Winona, Mn. 55987

James B. Beam Distilling Co., Clearmont,
Ky. 40110

Best Feeds & Farm Supplies, Oakdale, Pa.
15071

Bi-County Farm Bureau Co-op., Florence,
Ky. 41042

Big Four Feed & Implement Co., Scottsville,
Ky. 42164

Big Star Products Co., Atlanta, Ga. 30302

Birmingham Milling Co., Benton, Ky. 42025

Bisset Farm Supply, Harrodsburg, Ky. 40330

Blenda Life, Inc., Green Isle, Mn. 55338

Blue Barn Dog Food Co., New Albany, Ind.
47150

Blue River Feed Mills, Inc., Edinburg, Ind.
46124

Bobb Brothers, Leesburg, O. 45135

Boone Co. Farm Supply, Walton, Ky. 41094

Boones Feed Store, Stanford, Ky. 40484

Boone Valley Coop. Proc. Assn., Eagle
Grove, Ia. 50533

Borden Chemical Co., Norfolk, Va. 23501

Boswell Company, Atlanta, Ga. 30305

Bow Wow Co., Inc., Rolla, Mo. 65401

Bremco Mills, New Bremen, O. 45869

Brode Corp., Memphis, Tenn. 38101

Browder Milling Co., Inc., Fulton, Ky.
42041

Brown-Forman Distillers Corp., Louisville,
Ky. 40201

Brown Molasses Co., Inc., Bremen, Ind.
46506

Bryant & Crume Milling Co., Caneyville,
Ky. 42721

Buckeye Cellulose Corp., Cincinnati, O.
45201

Buckeye Cellulose Corp., Memphis, Tenn.
38108

COMPANIES HAVING FEED REGISTERED, 1970

Buckeye Cellulose Corp., Corinth, Miss.
38834

Buhler Mills, Inc., Buhler, Ks. 67522

Burrows Feed Mill, Pendleton, Ky. 40055

Bush Brothers & Co., Clinton, Tenn. 37716

A. C. Butts & Sons, Fulton, Ky. 42041

CPC International Inc., Englewood Cliffs,
N.J. 07632

Cadiz Milling Company, Cadiz, Ky. 42211

Calhoun Feed Service, Madisonville, Ky.
42431

Campbellsville Milling Co., Campbellsville,
Ky. 42718

Caneyville Roller Mill Co., Caneyville,
Ky. 42721

Cardinal Food Products, Inc., St. Louis,
Mo. 63103

Carey Salt Company, Hutchinson, Ks. 67501

Cargill, Inc., Cincinnati, O. 45204

Cargill, Inc., Minneapolis, Mn. 55402

Cargill Nutrena Feed Div., Minneapolis,
Mn. 55402

Carnation Co., Los Angeles, Ca. 90036

Carroll Co. Farm Bureau Coop.,
Carrollton, Ky. 41008

Catz American Co., Inc., New York, N.Y.
10016

Central Soya Co., Inc., Ft. Wayne, Ind.
46802

Central Soya of Clinton, Inc., Clinton,
Ky. 42031

Central Soya of Ky., Louisville, Ky. 40204

Champion Valley Farms, Inc., Camden, N.J.
08101

Chef Pet Foods, Inc., Delavan, Wis. 53115

City Roller Mills, Vevay, Ind. 47043

Clarkson Feed Store, Clarkson, Ky. 42726

Cleveland Milling Co., Cleveland, Tenn.
37311

Climax Mills, Shelbyville, Ky. 40065

Clinton Corn Processing Co., Clinton, Ia.
62233

H.C. Cole Milling Co., Chester, Ill. 62233

Colonial Stores, Inc., Atlanta, Ga. 30302

Columbian Hog & Cattle Powder, Kansas City,
Mo. 64129

Comet Rice Mills, Houston, Texas 77001

Commercial Solvents Corp., Terre Haute,
Ind. 47808

Community Milling Co., Irvington, Ky. 40146

Community Feed Mill, Belton, Ky. 42324

Consolidated Mills, Inc., Blissfield, Mi.
49228

Cooperative Mills, Inc., Cincinnati, O.
45215

Cosby-Hodges Milling Co., Birmingham, Ala.
35201

Craft Feed & Grain, Catlettsburg, Ky.
41129

Crafton-Duncan, Inc., Henderson, Ky. 42420

Crescent Roller Mills, Inc., Taylorsville,
Ky. 40071

Crestwood Farmers Supply Center, Crestwood,
Ky. 40014

Cudahy Co., Harrodsburg, Ky. 60330

Cumberland Milling Co., Clarksville, Tenn.
37040

Custom Feed Mills, Morganfield, Ky. 42437

Dairymen, Inc., Louisville, Ky. 40202

Darling & Co., Chicago, Ill. 60609

Darling & Co., Cincinnati, O. 45215

Darling & Co., Reading, O. 45215

Wm. Davies Co., Inc., Danville, Ill. 61834

Davis Feed & Farm Supply, Greensburg, Ky.
42743

Dawes Laboratories, Inc., Chicago, Ill.
60632

Dearborn Mills, Aurora, Ind. 47001

Delta Oil Mill, Inc., Jonestown, Miss.
38639

Delta Rice, Inc., Hollandale, Miss. 38748

Diamond Crystal Salt Co., St. Clair, Mi.
48079

Diamond Laboratories, Des Moines, Ia.
50303

Diamond V. Mills, Inc., Cedar Rapids, Ia.
52407

Diamond Shamrock Chemical Co., Newark,
N.J. 07101

Dicken Mill, Mentor, Ky. 41060

Dixie Mills, Co., E. St. Louis, Ill. 62202

Dixie Portland Flour Mills, Arkansas City,
Ks. 67005

Dixie Portland Flour Mills, Chattanooga,
Tenn. 37401

Dixie Portland Flour Mills, Memphis, Tenn.
38101

Doane Products Co., Joplin, Mo. 64801

Docktors Laboratories, Pittsburgh, Pa.
19154

The Dow Chemical Co., Midland, Mi. 48640

Duncan-McFarland Farm Service, Lawrence-
burg, Ky. 40342

Dunnington Milling Co., Monticello, Ky.
42633

Edges Feed Store, Fordville, Ky. 42345

E. I. Dupont DeNemours & Co., Wilmington,
De. 19898

Emge Packing Co., Inc., Ft. Branch, Ind.
47533

F. L. Emmert Co., Inc., Cincinnati, O.
45214

John W. Eshelman & Sons, Lancaster, Pa.
17604

Evans Milling Co., Indianapolis, Ind. 46206

John Ewing Co., LaSalle, Co. 80645

Falstaff Brewing Corp., St. Louis, Mo.
63110

COMPANIES HAVING FEED REGISTERED, 1970

Famous Feed Mills, Nashville, Tenn. 37201
 Farm Bureau Milling Co., Hammond, Ind. 46320
 Farm Service Center, Inc., Beaver Dam, Ky. 42320
 Farm Services, Inc., Glasgow, Ky. 42141
 Farmers Elevator Co. Feed Dept., Franklin, Ky. 42134
 Farmers Feed Mill, Lexington, Ky. 40508
 Farmers Feed Store, Central City, Ky. 42330
 Farmers Friend Mineral Co., Napoleon, O. 43545
 Farmers & Ginners Cotton Oil Co., Birmingham, Ala. 35201
 Farmers Milling Co., Somerset, Ky. 42501
 Farmers Supply of Ohio County, Inc., Beaver Dam, Ky. 42320
 Farmers Supply Co., Springfield, Ky. 40069
 Farmers Supply & Products Co., Monticello, Ky. 42633
 Farmers Tankage Co., Henderson, Ky. 42420
 Farmington Sweet Feed Mill, Farmington, Ky. 42040
 Farmland Industries, Inc., Kansas City, Mo. 64116
 J. H. Fedders, Inc., Covington, Ky. 41014
 Fedders Feed Service, Owenton, Ky. 40359
 Feed Service Corp., Crete, Nb. 68333
 Ferguson Bros. Feed Mill, Albany, Ky. 42402
 Ferma-Gro Corp., Storm Lake, Ia. 50588
 Ferneau Grain Co., Cincinnati, O. 45227
 Field Packing Co., Inc., Owensboro, Ky. 42301
 Finch Packing, N. Vincennes, Ind. 47591
 Fischer Packing Co., Louisville, Ky. 40201
 Fleischmann Distilling Corp., Owensboro, Ky. 42301
 Fleming Laboratories, Inc., Charlotte, N.C. 28208
 Flo-Pro, Inc., Horton, Ka. 66439
 Folsomdale Milling Co., Boaz, Ky. 42027
 Foremost Dairies, Inc., San Francisco, Cal. 94111
 Fort Negley Mills, Nashville, Tenn. 37203
 40/to/One Inc., Chattanooga, Tenn. 67404
 Foster Canning, Inc., Napoleon, O. 43545
 Francis Wholesale Co., Prestonburg, Ky. 41653
 R. T. French Manufacturers, Rochester, N.Y. 14609
 Froedtert Malt Corp., Milwaukee, Wis. 53215
 Frosty Morn Meats, Clarksville, Tenn. 37041
 Henry Fruechtenicht Co., Inc., Louisville, Ky. 40202
 Fruen Milling Co., Minneapolis, Mn. 55403
 Fuhrer-Ford Mill Co., Inc., Mt. Vernon, Ind. 47620
 Gallatin Co. Farm Supply, Warsaw, Ky. 41095
 Gallia Roller Mills, Gallipolis, O. 45613
 Gamaliel Feed & Farm Supply, Gamaliel, Ky. 42140
 Garrard Mills, Lancaster, Ky. 40444
 J. I. Gates Milling Co., Columbus, O. 43222
 General Distributing Co., E. St. Louis, Ill. 62201
 General Feed & Grain Supply, Lancaster, Ky. 40444
 General Foods Corp. Gaines Div., White Plains, N.Y. 10605
 General Mills, Inc., Minneapolis, Mn. 55440
 General Packing Co., Waynesville, O. 45068
 Germantown Milling Co., Germantown, Ky. 41044
 Gethsemani Farms, Trappist, Ky. 40073
 Gilster Milling Co., Chester, Ill. 62233
 Glenmore Distilleries Co., Louisville, Ky. 40202
 Glenmore Distilleries Co., Owensboro, Ky. 42301
 Godbold, Inc., Lubbock, Tx. 79408
 Gold Seal Products Co., Birmingham, Ala. 35203
 Goldenrod Oil Meal Sales Co., Memphis, Tenn. 38101
 Gooch Feed Mill Co., Lincoln, Nb. 68501
 Good-Life Chemicals, Inc., Effingham, Ill. 62401
 Gordy Salt Co., Inc., New Iberia, La. 70560
 W. R. Grace & Co., St. Louis, Mo. 63105
 W. R. Grace Ag. Products Div., Atlantic, Ia. 50022
 W. R. Grace & Co., Ag. Products Div., Memphis, Tenn. 37202
 W. R. Grace & Co., Ag. Products Div., Nashville Tenn. 37202
 Grain Processing Corp., Muscatine, Ia. 52716
 Grant Co. Farm Supply, Dry Ridge, Ky. 41035
 Grayson Milling Co., Grayson, Ky. 41143
 The Great A&P Tea Co., Inc., Brockport, N.Y. 14420
 Great Lakes Pet Food Co., Hammond, Ind. 43625
 The Great Western Foods Co., Knoxville, Tenn. 37901
 Greek & Son Canning, Sandoval, Ill. 62882

COMPANIES HAVING FEED REGISTERED, 1970

Green County Milling Co., Greensburg, Ky.
42743

Green Valley Farm Supply, Inc., Island,
Ky. 42350

Griffin Industries, Butler, Ky. 41006

Griffin Packing Co., Danville, Ky. 40422

Gro-Kote, Inc., Santa Rosa, Cal. 95402

Gulf Oil Co., Kansas City, Mo. 64105

Gulf Oil Corp., Chem. Dept., Sturgis, Ky.
42459

Guthrie Feed Mill, Guthrie, Ky. 42234

Earl Hale & Son, Jasper, Ohio 45642

Hales & Hunter Co., Chicago, Ill. 60606

Hardin County Milling Co., Elizabethtown,
Ky. 42701

Hardin Feed Mill, Hardin, Ky. 42048

Hardy Brothers Mills, Walton, Ky. 41094

Hardy Salt Co., St. Louis, Mo. 63166

Harlan Farmers Supply Co., Harlan, Ky.
40831

Harpeth Mills, Nashville, Tenn. 37203

Harrodsburg Farm Service, Harrodsburg,
Ky. 40330

Hartz Mountain Products, N.Y. 10003

Harvest Brand, Inc., Pittsburg, Ks. 66762

T. J. Haycraft Sales & Service, Leitchfield,
Ky. 42754

Haydon Mill & Grain Co., Springfield, Ky.
40069

Haynes Milling Co., Inc., Portland, Ind.
47371

Haynie Products Inc., Baltimore, Md.
21230

Hayward, Inc., Oak Harbor, O. 43449

Heaven Hill Distilleries, Bardstown, Ky.
40004

Dr. Heinz Co., Bloomingburg, O. 43106

Dr. Heinz Co., Washington Court House, O.
43160

Helena Cotton Oil Co., Inc., Helena,
Ar. 72342

Henderson Feed & Commission, Henderson,
Ky. 42420

Henry County Feeders Supply, Eminence,
Ky. 40019

Burch Hester Feed Store, Hustonville, Ky.
40437

Hi-Acres Concentrate, Inc., Orlando,
Fla. 32804

Hi-Life Packing Co., Chicago, Ill. 60603

Hi-Vi Dog Food Co., Rush Springs, Ok. 73082

Hickman Co. Feed Mill, Clinton, Ky. 42031

Hill's Div. Riviana Foods, Inc., Topeka,
Ks. 66601

Frank Hinton & Son, Plummers Landing, Ky.
41089

Hobbs Feed & Supply, Fancy Farm, Ky.
42039

Hodgenville Roller Mills, Hodgenville,
Ky. 42748

Holly Sugar Corp., Colorado Springs, Co.
80901

Home Milling Co., Inc., Greenville, Ky.
42345

Honegger's & Co., Inc., Fairbury, Ill.
61739

Hoosier Mineral Feed Co., Greenwood, Ind.
46142

Hopkinsville Milling Co., Hopkinsville,
Ky. 42240

Horlicks Corp., Racine, Wis. 53404

Howdy Distributing Co., Williamstown, W.
Va. 26187

Hubinger Co., Keokuk, Ia. 52732

Hudsons Farm Service, Franklin, Ky. 42134

Huff & Puff Pet Foods, Inc., Reedville,
Va. 22539

Humphreys Mills, Memphis, Tenn. 38102

Hunter Milling Co., Wellington, Ks. 67152

Hygrade Food Products Corp., Clyde, O.
43410

The Hyland Company, Ashland, Ky. 41101

Ingleheart Bros., Evansville, Ind. 47707

Illinois Cereal Mills, Inc., Paris, Ill.
61944

J. F. Imbs Milling Co., St. Louis, Mo.
63110

Indiana Farm Bureau Coop. Assn.,
Indianapolis, Ind. 46204

Industrial Molasses Corp., Leonia, N.J.
07605

International Mineral & Chemical Corp.,
Skokie, Ill. 60077

International Multifoods Corp.,
Minneapolis, Mn. 55415

International Salt Co., Inc., Clarks
Summit, Pa. 18411

International Sugar Feed Co.,
Minneapolis, Mn. 55406

Jersee Security Co., Minneapolis, Mn.
55415

Jewel Companies, Barrington, Ill 60010

The Jim Dandy Co., Birmingham, Ala.
35201

I. S. Joseph Co., Inc., Minneapolis, Mn.
55415

K & K Manufacturing Inc., Rogers, Mn.
55374

Kaiser Ag. Chemicals, Savannah, Ga.
31402

E. Kahn's Sons Co., Cincinnati, O.
45225

Kal Kan Foods, Inc., Los Angeles, Cal.
90058

Kaler Milling Co., Symsonia, Ky.
42082

COMPANIES HAVING FEED REGISTERED, 1970

- Kalmbach Feeds, Inc., Sandusky, Ohio
43351
- Kane Molasses Laboratories, Mt. Pulaski,
Ill. 62548
- Keco Milling Co., McKenzie, Tenn. 38201
- Keller Hay & Grain Co., Newport, Ky. 41072
- Kentucky Animal By-Products, Russellville,
Ky. 42276
- Kentucky By-Products Corp., Louisville,
Ky. 40211
- Kentucky Chemical Industries, Cincinnati,
Ohio 45232
- Keynes Brothers, Logan, O. 43138
- Kimbell-Diamond Milling Co., Ft. Worth,
Tx. 76101
- Kingston Farmers Exchange, Inc., Kingston,
O. 45646
- Klarer of Kentucky, Inc., Louisville, Ky.
40201
- Knauf & Tesch Co., Chilton, Wis. 53014
- H. C. Knoke & Co., Chicago, Ill. 60650
- Ed. G. Keohl, Inc., Reading, Ohio 45215
- Kraft Foods, Chicago, Ill. 60612
- Kroger Co., Cincinnati, Ohio 45202
- Kuder Pulp Citrus Sales Co., Lake Alfred,
Fla. 33850
- La Crosse Milling Co., Cochrane, Wis.
54622
- Lake Co. Oil Mill, Tiptonville, Tenn. 38079
- Land O'Lakes Creameries, Inc., Minneapolis,
Mn. 55413
- Edmond J. Lang, New Rochell, N.Y. 10802
- Lark, Boone, Iowa 50036
- Lauhoff Grain Co., Danville, Ill. 61832
- Harry L. Laws & Co., Inc., New Orleans, La.
70130
- LeGear Laboratories, Inc., St. Louis, Mo.
63116
- Lewisburg Roller Mills, Lewisburg, Ky. 42256
- Lexington Grocery Co., Lexington, Ky. 40507
- Lilly Brothers Seed Co., Hopkinsville, Ky.
42240
- Lipscomb Grain & Seed Co., Inc., Springfield,
Mo. 65805
- Liv-A-Snaps, Inc., St. Paul, Mn. 55105
- Livestock Industries, Inc., Park City, Ky.
42160
- Loft-Dahlgren, Inc., Crookston, Mn. 56716
- Loncala Phosphate Co., High Springs, Fla.
32643
- Louisa Supply Co., Inc., Louisa, Ky. 41230
- Lowes Feed & Hatchery, Bowling Green, Ky.
42101
- Lowes Pellets & Grain, Inc., Greensburg, Ind.
47240
- Lubbock Cotton Oil Mill Co., Lubbock, Tx.
79408
- Lynn Grove Milling Co., Murray, Ky.
42062
- M.F.A. Grain Division, Mexico, Mo. 65265
- M & W Milling Co., Inc., Columbia, Ky.
42728
- Manard Molasses Company, New Orleans, La.
70130
- Manko Co., Inc., Ocala, Fla. 32670
- Marblehead Lime Co., Chicago, Ill 60606
- Marion Feed Mills, Marion, Ky. 42064
- Martin Sales Co., Toledo, O. 43606
- Masonite Corp., Chicago, Ill 60606
- Mavar Shrimp & Oyster Co., Biloxi, Miss.
39530
- Mayes-Helm & Coyle, Perryville, Ky. 40468
- Mayfield Milling Co., Inc., Mayfield, Ky.
42066
- Mayfield Sweet Feed Mill, Mayfield, Ky.
42066
- Mayflower Mills, Ft. Wayne, Ind. 46801
- McCauley Bros. Seed Co., Versailles, Ky.
40383
- J. A. McDonald & Sons, Rogersville, Tenn.
37857
- McGahan & Co., Paintsville, Ky. 42140
- McInnis Co., Pulaski, Tenn. 38478
- McKnight-Keaton Grocery Co., Sikeston,
Mo. 63801
- McRedmond Brothers, Nashville, Tenn. 37210
- McWhorter Bros., Albany, Ky. 42602
- Meadows Feed & Bldg. Supply, Clay City,
Ky. 40312
- Medley Distilling Co., Owensboro, Ky. 42301
- Mennel Milling Co., Fostoria, O. 44830
- Metzger Bros. Paducah, Ky. 42001
- Michigan Salt, St. Louis, Mich. 48880
- Micro-Lite, Inc., Emporia, Ks. 66801
- Mid-South Feeds, Inc., Nashville, Tenn.
57209
- Mid-South Milling Co., Memphis, Tenn. 38106
- Mid-State Mills, Inc., Newton, N.C. 28658
- Mid-State Molasses Co., Franklin, Tenn.
37046
- Middlesboro Milling Co., Middlesboro, Ky.
40965
- Midget Mills, Somerset, Ky. 42501
- Midwest Feeds Co., Cincinnati, O. 45215
- S. E. Mighton Co., Bedford, O. 44014
- Milk Specialties, Inc., Dundee, Ill. 60118
- Miller Milling Servis-, Bowling Green, Ky.
42101
- Mineral Products Co., Indianapolis, Ind.
46221
- Minter City Oil Mill, Minter City, Miss.
38944
- Mississippi Chemical Corp., Yazoo City,
Miss. 39194
- Mississippi Cottonseed Products Co.,
Grenada, Miss. 38901
- Mitsui & Co. (USA), Inc., San Francisco,
Cal. 94104

COMPANIES HAVING FEED REGISTERED, 1970

Model Mill Co., Jackson, Tenn. 38301
 Model Mills, Georgetown, Ky. 40324
 Mohawk Milling Co., Newport, Tenn. 38721
 August Moldenhauer Mill, Menfro, Mo. 63765
 Monarch Feed Mills, Inc., Dexter, Mo. 63841
 Monarch Milling Co., Mt. Sterling, Ky. 40353
 Monroe Bros. Sweet Feed Mill, Cave City, Ky. 42127
 Monroe Sweet Feed Mill, Tompkinsville, Ky. 42167
 Moore's Feed Store, Pewee Valley, Ky. 40056
 Moore Lowry Flour Mills, Kansas City, Mo. 64112
 Moorman Manufacturing Co., Quincy, Ill. 62302
 Morgan Packing Co., Inc., Austin, Ind. 47102
 Morgantown Feed Mill, Morgantown, Ky. 42261
 Mor-Milk Co., Dixon, Ill. 61021
 John Morrell & Co., Chicago, Ill. 60604
 Morton Salt Co., Chicago, Ill. 60606
 L. A. Mosher Co., Atlanta, Ga. 30301
 Mother's Cookie Co., Louisville, Ky. 40216
 Mowat, Wilson & Co., Detroit, Mich. 48235
 Mullican Feed Mill, Inc., Stanley, Ky. 42375
 Munfordville Milling Co., Munfordville, Ky. 42765
 Murphy Grain & Milling Co., Owensboro, Ky. 42301
 Mutual Products Co., Minneapolis, Mn. 55401
 Henry Nagel & Son, Cincinnati, O. 45214
 Naremc Co., Springfield, Mo. 65805
 Nashville Oil Mill Co., Nashville, Tenn. 37202
 National Alfalfa Dehydrating & Milling Co., Shawnee Mission, Ks. 66201
 National Alfalfa Dehydration & Milling Co., Overland Park, Ks. 62202
 National Biscuit Co., New York, N.Y. 10022
 National Biscuit Co., Toledo, O. 43603
 National Distillers Products, Cincinnati, Ohio 45246
 National Molasses Co., Cincinnati, O. 45201
 National Molasses Co., Willow Grove, Pa. 19090
 National Oats Co., E. St. Louis, Ill. 62205
 National Oats Co., Cedar Rapids, Ia. 52402
 National Packing Co., Greenville, Miss. 38701
 National Starch & Chemical Corp., Indianapolis, Ind. 46221
 Neumond, Inc., St. Louis, Mo. 63110
 The New Century Co., Chicago, Ill. 60609
 New Era Milling Co., Arkansas City, Ks. 67005
 Nicholas Co. Feeders Supply, Carlisle, Ky. 40311
 Nipak, Inc., Dallas, Tx. 75221
 The Nora Mills, Lewisburg, Tenn. 37091
 Northern Ohio Sugar Co., Denver, Co. 80217
 Northern Ohio Sugar Co., Findley, O. 45840
 Northern Ohio Sugar Co., Fremont, O. 43420
 Norwich Agr. Products Inc., Norwich, N.Y. 13815
 Charles Nunn & Sons Milling, Evansville, Ind. 47712
 Nutrena Mills, Inc., Minneapolis, Mn. 44402
 Occidental Chemical Co., Houston, Tx. 77001
 Ocean Labs, Inc., Irvine, Cal. 92640
 Odon Milling Co., Inc., Odon, Ind. 47562
 Ohio Blenders, Inc., Toledo, O. 43611
 Old Stanley Distillery, Inc., Stanley, Ky. 42375
 Agricultural Div. OLIN, Little Rock, Ar. 72203
 Orleans Canning Co., Chicago, Ill 60603
 Orrick Dehydrating Co., Inc., Orrick, Mo. 64077
 Osceola Products Co., Osceola, Ar. 72370
 Owensboro Grain Co., Inc., Owensboro, Ky. 42301
 Owensboro Milling Co., Owensboro, Ky. 42301
 Pacific Molasses Co., San Francisco, Cal. 94105
 Packmaster, Inc., Cincinnati, O. 45208
 Packers By-Products Co., National Stock Yards, Ill. 62071
 Pan American Mills, Bowling Green, Ky. 42101
 Pan Pacific Fisheries, Inc., Terminal Island, Cal. 90731
 Paymaster Oil Mill Co., Phoenix, Az. 85002
 Pearl Packing Co., Inc., Madison, Ind. 47250
 Peavy Co. Flour Mills, Minneapolis, Mn. 55415
 Pedrick Laboratories, Sand Springs, Okl. 74063
 Pendleton County Mills, Falmouth, Ky. 41040
 Penick & Ford Limited, Inc., Cedar Rapids, Ia. 52406
 Stanley Penn & Sons, Lexington, Ky. 40508
 Perk Foods Co., Div. Vets, Chicago, Ill. 60610
 Peter Hand Foundation, Waukegan, Ill. 60085

COMPANIES HAVING FEED REGISTERED, 1970

Chas. Pfizer & Co., Inc., New York, N.Y.
 10017
 Philips Roxane Div., Kansas City, Ks.
 66106
 Phillips Petroleum Co., Bartlesville, Okl.
 74004
 Pierce & Williams, Hopkinsville, Ky. 42240
 Pillsbury Co., Minneapolis, Mn. 55403
 Pioneer Farm Service, Owensboro, Ky. 42301
 Pittsburgh Plate Glass Co., Red Wing, Mn.
 55066
 Plains Coop. Oil Mill, Lubbock, Tx. 79408
 Planters Manufacturing Co., Clarksdale,
 Ms. 38614
 Planters Oil Mill, Tunica, Ms. 38676
 Price-Wilhoite Co., Frederick, Md. 21701
 Princeton Mills, Princeton, Ky. 42445
 Producers Farm Center, Clinton, Ky. 42031
 Provico Feeds & Concentrates, Botkins, O.
 45306
 Provimi, Inc., Saddle Brook, N.J. 07662
 Pup Corn Brands, Inc., New Britain, Ct.
 06053
 Quaker Oats Co., Chicago, Ill. 60654
 Quaker Oats Co., Castleton, Ind. 47025
 Quincy Soybean Co., Quincy, Ill. 62301
 Quinn Menhaden Fisheries, of La.,
 Empire, La. 70050
 Ragland Mills, Inc., Neosho, Mo. 64850
 Ralston Purina Co., St. Louis, Mo. 63199
 Raymondville Cotton Oil Co., Raymondville,
 Tx. 78580
 Red Star Yeast & Products Co., Milwaukee,
 Wis. 53202
 Reelfoot Alfalfa Mill, Tiptonville, Tenn.
 38079
 Reelfoot Packing Co., Union City, Tenn.
 38261
 Reliance Chemicals Corp., Houston, Tx. 77024
 Rhodes Sweet Feed Mill, Mayfield, Ky. 42066
 Rico Liquids, Inc., Aliceville, Ala. 35442
 Ringgold Milling Co., Clarksville, Tenn.
 37042
 Rival Pet Foods, Chicago, Ill. 60632
 Riverside Industries, Marks, Miss. 38646
 Riviana Foods, Inc., Abbeville, La. 70510
 Robbins Bros., Auburn, Ky. 42206
 The Robertson Corp., Seymour, Ind. 47274
 Allen Robertson & Co., Louisville, Ky.
 40202
 Robinson Grain Co., Hickman, Ky. 42050
 Robinson Milling Co., Somerset, Ky. 42501
 Oroche Chemical Division, Nutley, N.J.
 07110
 Rogers Feed Store, Corinth, Ky. 41010
 Rome Oil Mill Div., Rome, Ga. 30162
 G. P. Rose & Co., Inc., Nashville, Tenn.
 37211
 W. M. Rudy & Son, Bandana, Ky. 42022
 Russell Springs Milling Co., Russell
 Springs, Ky. 42642
 Sandusky Mill, Harrodsburg, Ky. 40330
 Charles H. Schenck & Sons, Vincennes, Ind.
 47591
 Schenley Distillers, Inc., Frankfort, Ky.
 40601
 Schenley Distillers, Inc., New York, N.Y.
 10019
 John Schlemmer, Harrison, O. 45030
 Jos. Schiltz Brewing Co., Milwaukee, Wis.
 53201
 J. F. Schneider & Son, Middlesboro, Ky.
 40965
 Scioto Farm Bureau Co-op. Assn., Lucasville,
 O. 45648
 Scott County Milling Co., Sikeston, Mo.
 63801
 Sea-Born Corp. Div., Winter Haven, Fla.
 33880
 Seaboard Allied Milling Corp., Kansas City,
 Mo. 64108
 Joseph E. Seagram & Sons, Inc., New York,
 N.Y. 10022
 Security Mills, Inc., Knoxville, Tenn.
 37901
 Shafer Formula Co., Inc., Cleghorn, Ia.
 51014
 Sherwin-Williams Co., Cleveland, O. 44101
 J. R. Short Milling Co., Mt. Vernon, Ind.
 47620
 Siemer Milling Co., Teutopolis, Ill.
 62467
 Sikeston Cotton Oil Mill, Sikeston, Mo.
 63801
 Simpson Milling Co., Waynesburg, Ky. 40489
 Smith Sweet Feed Mill Inc., Bowling Green,
 Ky. 42101
 Smithfield Milling Co., Smithfield, Ky.
 40068
 Snyder Molasses Co., Chicago, Ill. 60626
 Southern Canning Div. SMS Inc., Highlands,
 Tx. 77562
 Southern Cotton Oil Co., Decatur, Ala.
 35601
 Southern Cotton Oil Co., Huntsville, Ala.
 35804
 Southern Cotton Oil Co., Montgomery, Ala.
 36101
 Southern Cotton Oil Co., New Orleans, La.
 70124
 Southern Cotton Oil Co., Memphis, Tenn.
 38104
 Southern Cotton Oil Co., Greenville, Miss.
 38701
 Southern Cotton Oil Co., Harlingen, Tx.
 78550

COMPANIES HAVING FEED REGISTERED, 1970

Southern Proteins, Inc., Morgan City, La. 70380
 So. States Bardstown Coop., Bardstown, Ky. 40004
 So. States Glasgow Coop., Glasgow, Ky. 42141
 So. States Hardin Coop., Elizabethtown, Ky. 42701
 So. States Hopkinsville Coop., Hopkinsville, Ky. 42240
 So. States LaGrange Coop., LaGrange, Ky. 40031
 So. States Lebanon Coop., Lebanon, Ky. 40033
 So. States Leitchfield Coop., Leitchfield, Ky. 42754
 So. States London Coop., London, Ky. 40741
 So. States Owenton Coop., Owenton, Ky. 40359
 So. States Richmond Coop., Richmond, Ky. 40475
 So. States Somerset Coop., Somerset, Ky. 42501
 So. States Coop., Baltimore, Md. 21203
 So. States Coop., Richmond, Va. 23213
 Southern Rendering Co., Shelbyville, Tenn. 37160
 Sowell Bros. Feed Mill, Cerulean, Ky. 42215
 Woodford Spears & Sons, Paris, Ky. 40361
 Spears-Kiser Co., Inc., Paris, Ky. 40361
 Specialty Feeds Inc., Horn Lake, Ms. 38637
 Spencer Farm Services, Taylorsville, Ky. 40071
 Spencer Kellogg, Buffalo, N.Y. 14240
 Sphar & Co., Mt. Carmel, Ill. 62863
 Square Deal Fortification Co., Kouts, Ind. 46347
 A. E. Staley Manufacturing, Decatur, Ill. 62525
 Standard Brands, Inc., New York, N.Y. 10022
 Standard Brands, Inc., Chicago, Ill. 60613
 Standard Products, Inc., Kilmarnock, Va. 22482
 Stanford Creamery, Stanford, Ky. 40484
 Star-Kist Foods, Inc., Terminal Island, Cal. 90730
 Stauffer Chemical Co., New York, N.Y. 10017
 Stewarts Feed Mill, Flat Lick, Ky. 40935
 F. W. Stock & Sons, Inc., Hillsdale, Mi. 49242
 Strid Grain Co., Green Bay, Wis. 54306
 Strongheart Packing Co., Chicago, Ill. 60604
 Strongheart Products Co., Kansas City, Ks. 66110
 Sturgis Milling Co., Sturgis, Ky. 42459
 Summer Shade Roller Mills, Summer Shade, Ky. 42166
 Sunshine Feed Mills, Inc., Red Bay, Ala. 35582
 Sunshine Molasses Co., Somerset, Ky. 42501
 Super-Mol Div. Natl. Molasses Co., Tampa, Fla. 33619
 Supersweet Feeds Div. International, Kansas City, Mo. 64116
 Supreme Mills, Glasgow, Ky. 42141
 D. B. Sutherland & Sons, Bloomfield, Ky. 40008
 Swift Grocery Products, Chicago, Ill. 60604
 Swift & Co., Animal Protein Plant, Evansville, Ind. 47710
 T & H Feed Service, Lebanon, Ky. 40033
 Taylor County Feed Co., Campbellsville, Ky. 42718
 Teater & Cassity, Nicholasville, Ky. 40356
 Tennessee Farmers Cooperative, LaVergne, Tenn. 37086
 Tennessee Valley Cotton Oil Mill, Decatur, Ala. 35601
 Thompson & Nash, Inc., Shelbyville, Ky. 40065
 Thorobred Co., Inc., Waynesville, O. 45068
 Thrifty Supplements, Rockford, O. 45882
 Thurmonds Coal & Feed Co., Murray, Ky. 42071
 Topeka Molasses Co., Ligonier, Ind. 46767
 Mr. Toymaker Enterprises, Atlanta, Ga. 30318
 Tree City Specialists, Greensburg, Ind. 47240
 Trenton Oil Mill Co., Trenton, Tenn. 38385
 Tri-Associates, Inc., Minneapolis, Mn. 55403
 Tri-County Farm Supply, Corbin, Ky. 40701
 Triple "F" Feeds, Des Moines, Ia. 50322
 Tupelo Oil Mill, Inc., Tupelo, Miss. 38801
 Ultra-Life Laboratories, E. St. Louis, Ill. 62201
 Union County Grain Co., Sturgis, Ky. 42459
 Union Div. Miles Laboratories, Inc., Granite City, Ill. 62040
 United States Sugar Corp., Clewiston, Fla. 33440
 Usen Products Co., Woburn, Ma. 01801
 Van Camp Sea Food, Long Beach, Cal. 90812
 Verhoff Alfalfa Mills, Ottawa, O. 45875
 Vets Div. of Perk Foods Co., Chicago, Ill. 60610
 Veterinary & Poultry Supply, Goshen, Ind. 46526
 Vistron Corp., Lima, O. 45802

COMPANIES HAVING FEED REGISTERED, 1970

Vit-A-Way, Inc., Ft. Worth, Tx. 76106
Vita Plus Corp., Madison, Wis. 53701
Vitamineral Products Co., Peoria, Ill.
61603
V.M.S., Inc., Montgomery, Ala. 36101
Vylactos Laboratories, Syracuse, Ind. 46567
Vylactos Laboratories, Des Moines, Ia.
50313
Wagner-Indoe, Inc., North Lawrence, O.
44666
Warners Farm Supply, Somerset, Ky. 42501
Watkins Products Co., Inc., Winona, Mn.
55987
Watkins Products Co., Inc., Memphis, Tenn.
38102
Weisenberger Mills, Midway, Ky. 40347
Ralph Wells & Co., Monmouth, Ill. 61462
West Tennessee Soya Mill, Inc., Tipton-
ville, Tenn. 38257
Western Alfalfa Corp., Kansas City, Mo.
64141
Martha White, Inc., Nashville, Tenn.
37203
Martha White Mills of W. Va., Huntington,
W. Va. 25706
Whitewater Flour Mills, Whitewater, Ks.
67154
Whitmer Co., Bowling Green, Ky. 42101
Whitmoyer Laboratories, Inc., Myerstown,
Pa. 17067
John Whitt, Wrigley, Ky. 41477
Whiz Pet Food Co., Seattle, Wa. 98114
George Wiedemann Brewing Co., Newport, Ky.
41071
R. L. Wiles Feed Mills, Inc., Nashville,
Tenn. 37210
Williamstown Roller Mill, Williamstown,
Ky. 41097
Wilson & Co., Inc., Chicago, Ill. 60601
Wilson Enterprises, Inc., Colonial Heights,
Va. 23834
Winn Milling Co., Greensburg, Ky. 42743
Woodford Feed Co., Versailles, Ky. 40383
Xtra Factors, Inc., Ephrata, Pa. 17522
Yazoo Valley Oil Mill, Greenwood, Miss.
38930
Yopp Seed Co., Paducah, Ky. 42001
Yukon Mill & Grain Co., Yukon, Okl. 73099
Y-V Minerals, Inc., Greenwood, Ind. 46142

AVERAGE COMPOSITION OF THE MORE COMMON FEEDSTUFFS

Feedstuff	Protein	Fat	Fiber	Water	Ash
Alfalfa Leaf Meal	21.0	2.8	16.0	7.7	12.0
Alfalfa Meal	14.0	2.0	30.0	9.0	9.0
Barley	12.0	2.0	5.4	10.6	2.7
Barley Feed	13.5	3.5	8.7	9.3	4.9
Beet Pulp, Dried	9.2	0.5	19.8	9.9	3.4
Bone Meal, Steamed	7.5	1.2	1.5	5.7	81.3
Brewers Dried Grains	25.0	6.4	16.0	7.7	3.9
Buckwheat	11.0	2.5	10.0	12.0	1.9
Buttermilk, Dried	33.0	6.0	0.3	7.6	10.0
Buttermilk, Semi-Solid	13.4	3.0	0.0	65.0	2.7
Citrus Meal	5.9	3.1	11.5	9.9	6.9
Coconut Meal	20.5	8.0	10.0	9.5	6.5
Corn	8.0	3.9	2.0	15.0	1.2
Corn Bran	9.7	7.3	9.2	9.4	2.4
Corn and Cob Meal	7.0	3.5	8.0	14.1	1.5
Crushed Ear Corn & Shucks	7.0	3.0	10.6	11.0	1.8
Corn Chops	8.0	3.5	2.0	14.0	1.5
Corn Feed Meal	8.0	4.5	3.0	11.4	2.0
Corn Germ Meal	21.0	9.0	9.0	7.0	3.3
Corn Gluten Feed	25.5	2.7	7.6	9.1	6.3
Corn Gluten Meal	43.1	2.0	4.0	8.6	2.5
Cottonseed Meal	41.5	6.3	10.4	7.2	6.5
Cottonseed Meal Solvent	41.1	2.1	11.0	9.2	6.8
Distillers Dried Grains, Corn	26.1	8.8	12.8	7.1	2.5
Distillers Dried Grains, Rye	24.4	5.6	11.5	6.1	22.4
Distillers Dried Solubles	28.5	9.6	4.4	7.0	7.4
Fish Meal	60.9	6.8	0.9	7.1	17.6
Flaxseed	24.0	35.9	6.3	9.2	4.3
Flaxseed Screenings Oil Feed	25.0	7.1	11.7	8.1	7.8
Hominy Feed	11.2	6.9	5.2	9.6	2.9
Lespedeza Seed	36.6	7.6	9.6	8.3	5.1
Linseed Meal	35.4	5.8	8.2	9.0	5.6
Linseed Meal Solvent	36.6	1.0	9.3	9.6	5.6
Malt Sprouts	26.8	1.3	14.2	7.4	6.0
Meat Meal, 55%	55.8	9.3	2.1	6.1	25.4
Meat & Bone Meal, 50%	51.0	10.1	2.1	6.1	29.1
Molasses, Cane	3.0	0.0	0.0	25.7	6.1
Molasses, Beet	7.8	0.0	0.0	22.0	7.0
Oats	12.0	4.1	11.7	10.4	3.4
Oat Kernels	16.0	6.4	1.6	8.0	2.0
Oat Middlings	15.9	5.2	3.3	8.6	2.4
Peanut Kernels	30.4	47.7	2.5	5.4	2.3
Peanut Meal	43.5	7.6	13.3	7.0	5.2
Peanut Meal, Solvent	51.5	1.4	5.7	8.4	5.8
Peanut Skins	15.9	22.4	10.6	6.2	2.7
Rice Bran	12.5	12.5	12.5	9.0	9.5
Rye	11.8	1.8	1.8	9.4	2.0
Rye Middlings	16.6	3.4	5.2	9.8	3.8
Skimmed Milk, Dried	34.0	1.0	0.0	6.0	8.0
Sorghum Grains	9.5	3.4	2.0	12.0	1.9
Soybean (Seed)	36.5	17.5	4.3	9.9	5.3
Soybean Meal	42.0	4.0	6.0	9.1	6.0
Soybean Meal, Solvent	45.0	0.8	6.0	9.4	5.8

AVERAGE COMPOSITION OF THE MORE COMMON FEEDSTUFFS, CONTINUED

Feedstuff	Protein	Fat	Fiber	Water	Ash
Meat Meal Tankage, 60%	60.6	8.5	2.0	6.9	20.2
Meat Meal Tankage with Bone 50%	51.3	11.5	2.3	6.2	26.1
Wheat	10.5	1.7	2.8	10.2	1.9
Wheat Bran	15.0	3.0	11.0	10.1	6.0
Wheat Mill Run	13.5	3.5	7.5	10.1	5.2
Wheat Middlings	16.0	5.3	7.0	10.3	5.4
Wheat Shorts	17.2	4.2	6.0	10.5	4.4
Wheat Red Dog	16.0	3.5	3.0	8.5	2.6
Wheat Flour, Patent	10.9	1.3	0.4	12.3	0.5
Wheat Germ Meal	27.8	9.2	3.3	8.9	4.5
Grain Screenings (From Wheat)	10.5	1.7	2.8	9.6	4.6
Whey, Dried	12.2	0.8	0.2	6.5	9.9
Yeast Brewers, Dried	44.9	0.7	2.7	6.2	6.9
Yeast, Irradiated, Dried	48.7	1.1	5.5	6.4	6.4

ROUGHAGES

Alfalfa Hay	14.5	2.3	29.7	8.6	8.6
Blue Grass Hay	8.2	2.5	29.8	10.5	6.5
Clover Hay, White	14.4	2.4	22.5	12.0	7.8
Clover Hay, Red	11.8	2.6	27.3	11.8	6.4
Corn Stover, Without ear	5.9	1.6	30.8	9.4	5.8
Corn Stover, With ear	7.8	2.2	27.1	8.9	6.4
Cowpea Hay	18.6	2.6	22.5	9.9	11.3
Fescue Hay	7.0	1.9	30.3	11.8	6.8
Lespedeza Hay	13.5	2.5	28.0	10.5	5.4
Soybean Hay	15.5	2.8	26.5	9.2	7.3
Timothy Hay	6.2	2.5	29.8	11.6	4.9

FILLERS

Alfalfa Stem Meal	11.5	1.3	36.3	9.0	7.1
Corn Cob	2.3	0.4	32.1	9.6	1.6
Corn Husk or Shuck	3.4	0.9	28.2	15.0	2.9
Cottonseed Hulls	3.9	1.0	45.5	9.7	2.7
Flax Plant By-Products	6.4	2.1	44.4	8.1	5.9
Oat Mill By-Products	5.6	1.8	27.9	7.6	6.3
Oat Hull Feed	3.5	1.5	32.5	7.6	5.6
Oat Hulls	3.0	1.0	35.0	6.8	6.5
Screenings*					
Chaff and Dust**					

* Varies in quality from fair.

** Varies in quality from poor to worthless and even dangerous.

Miscellaneous Samples Analyzed in 1947-70

Feedstuff	Protein	Fat	Fiber
Activated Sewer Sludge	29.2	6.0	6.7
Alfalfa Silage	4.0	0.9	9.5
Barley Bran	15.2	5.2	14.9
Bluegrass Chaff	7.1	1.9	28.5
Bluegrass Screenings	6.7	2.0	26.1
Blackberry Seeds	9.6	---	----
Bread	12.5	5.3	0.7
Brewers Wet Grains	10.3	1.0	3.4
Buckwheat Feed & Hulls	9.6	2.9	22.4
Cake, Ground	4.8	9.9	1.5
Cob & Shuck Meal	3.2	0.6	31.6
Cookie Meal	7.7	8.6	0.8
Corn Dust	7.1	2.7	1.7
Corn Blowings	8.7	1.9	15.7
Corn Fodder & Soybean Plant	10.1	3.9	17.0
Cracklings, Edible	67.1	28.1	1.1
Cracklings, Inedible	44.1	22.2	3.0
Distillers Thin Slop	1.4	---	---
Fescue Silage	2.8	1.3	8.9
Honey Suckle	2.8	0.02	6.0
Ice Cream Cones, Ground	9.2	1.5	0.7
Johnson Grass	7.8	0.8	37.6
Kale Seed	24.3	40.0	9.6
Korean Hay	13.9	---	---
Korean Screenings	21.9	3.6	20.8
Lespedeza Screenings	19.8	15.7	26.2
Lima Beans, Ground	21.5	1.5	6.1
Malt Hulls, Ground	10.3	1.8	22.5
Osage Orange Apple	2.5	4.3	1.7
Peanut Vine Meal	10.1	2.3	34.0
Popcorn, Ground	9.4	2.5	2.7
Popcorn, Popped and Crushed	8.4	12.8	2.9
Potato Flour	2.0	---	---
Potato Flakes	9.0	---	---
Rag Weed Seed	17.2	16.2	34.4
Sorghum, Ground (Stalk & Leaves)	4.1	2.9	19.6
Ground Unthreshed Heads of Grain Sorghum	6.4	2.1	10.5
Fescue & Clover Silage	2.0	1.0	8.0
Oat Silage	1.9	1.5	9.8
Straw Silage	6.5	3.0	19.5
Sudan Grass Silage	5.9	1.1	14.0
Sudan & Soybean Silage	2.4	0.6	7.9
Vetch Seed	26.4	0.7	7.6
Walnut Shells & Meats	13.2	24.2	27.1
Walnut Meat Skins & Small Amount of Shell	21.5	45.5	12.0
Wheat Toast, Ground	12.6	4.9	0.5
Wild Onions	6.7	0.2	1.0
Wheat Silage	4.4	1.4	22.7

UREA

The following information may be of some help to manufacturers and feeders using urea.

Urea is a white crystalline powder made by combining ammonia and carbon dioxide under pressure in equipment that will withstand high temperature.

Urea contains 46.5% nitrogen, which is equivalent to 291% protein. The commercial product "262" Feed Compound, is urea which has been diluted with other materials to prevent caking, and contains 42% nitrogen which is equivalent to 262% protein. The addition of 1 percent of this material to a dairy feed is equivalent to adding 2.62% protein. Besides urea's protein equivalent value, one must also consider its lack of energy value as compared to the common high protein feeds. An example of this, if the nitrogen in urea is used as efficiently as the nitrogen in high protein feeds, it will require approximately 14 pounds of urea, plus 100 pounds of grain to replace 100 pounds of soybean meal.

Urea, when used as an ingredient in feeds sold in Kentucky is shown in the guaranteed analysis as follows:

Crude Protein, Not less than _____ %
 This includes not more
 than _____ % of equivalent crude
 protein from non-Protein Nitrogen

Crude Fat, not less than _____ %

Crude Fiber, not more than _____ %

One percent of "262 Feed Compound" would be 2.62% equivalent protein from non-protein nitrogen. Urea should be shown as an ingredient under "Ingredients."

Cattle, sheep, and goats are able to convert urea to a usable form through the action of micro-organisms in the rumen. The organisms convert the nitrogen of urea to protein in their cell bodies which are in turn digested by the animal.

Horses, swine, dogs, and other single-stomach animals are unable to utilize urea. If used in large quantities, it may be toxic to such animals.

The Association of American Feed Control Officials has a regulation to the effect that urea be used in such limited quantities as to insure the total amount present shall not exceed 3 percent of the (grain) ration or 1/3 of the total protein. If a feed contains more than 3 percent of urea, the label shall bear a statement of proper usage and the following in type of such conspicuousness as to render it likely to be read and understood by ordinary individuals under customary conditions of purchase and use:

CAUTION-USE AS DIRECTED

On labels such as those for medicated feeds which bear adequate feeding directions and/or warning statements, the presence of added non-protein nitrogen products shall require neither additional feeding directions nor the customary non-protein nitrogen warning statement.

CHANGES IN PRODUCT NAMES

<u>NEW NAME</u>	<u>OLD NAME</u>
Soybean Meal	Soybean Oil Meal
Linseed Meal	Linseed Oil Meal
Meat Meal	Meat Scraps
Meat Meal Tankage	Tankage or Digester Tankage
Wheat Middlings	Wheat Standard Middlings
	Wheat Gray Middling
Wheat Shorts	Wheat Brown Shorts
	Wheat Gray Shorts
	Wheat White Shorts
Wheat Mill Run	Wheat Mixed Feed
Wheat Germ Meal	Wheat Germ Oil Meal
Oat Hulls	Oat Mill By Products (If Fiber is over 22%)
Rye Mill Run	Rye Feed
Rye Flour Middlings	Rye Middlings
Soybean Mill Feed	Soybean Mill Product
Vitamin A Oil	Vitamin A Feeding Oil
Vitamin D Oil	Vitamin D Feeding Oil
Vitamin A & D Oil	Vitamin A & D Feeding Oil
Cane Molasses	Molasses
Corn Sugar Molasses	
Beet Molasses	
Citrus Molasses	
BHA (A Preservative)	Butylated Hydroxyanisole (A Preservative)
BHT (A Preservative)	Butylated Hydroxy Toluene (A Preservative)

THE MEDICATED FEED LABEL

The medicated label is to be used for all medicated feeds, which contain drugs for specific purposes, such as: Prevention of diseases, treatment of diseases, aid in control of diseases, hormone action, worming, etc. It is also to be used for certain non-antibiotic drugs added for growth stimulation and feed efficiency purposes (i.e., organic arsenicals). It is also to be used for feeds containing antibiotics at low levels for growth promotion and improved feed efficiency. The following features should be noted:

1. The word "Medicated" shall appear directly following and below the product name, in type-size no smaller than one-half the type-size of the product name.
2. The purpose statement shall appear below the term "Medicated." It should be precise and simple.
3. Active drug ingredients (list of common names, not trade names) and percentage present, except low level antibiotics for growth promotion and feed efficiency in feeds which are to be fed continuously as a sole ration for each drug. All products which contain less than 2,000 grams (total) of antibiotics per ton are to be expressed in grams per ton, and all products which contain 2,000 grams or more are to be expressed in grams per pound. The term "milligrams per pound" may be used, in lieu of percentage declarations for drugs (including antibiotics), on the label only in those cases where a dosage is given as "milligrams per day" in the feeding directions. Note that the hormone percentage need not be stated in the product name but may appear only as a regular active drug ingredient guarantee.

Labels for feeds containing growth promotion and/or feed efficiency levels of antibiotics, which are to be fed continuously as a sole ration, are not required, at the present time, to make quantitative guarantees, except as specifically indicated in certain instances in the Federal Food Additive Regulations for certain antibiotics, such as Tylosin, Oleandomycin, and Nystatin, wherein quantitative guarantees are required regardless of the level or purpose of the antibiotic.

LABEL FOR ALL MEDICATED FEEDS

100 LBS. NET WEIGHT

**BLUE BIRD
CHICK STARTER 3218****MEDICATED**

To aid in preventing outbreaks of coccidiosis. Follow feeding directions and warning statement on back of this label.

Active Drug Ingredient(s)

Nicarbazin 0.0125%

Guaranteed Analysis

Crude Protein, not less than.....20.0%
Crude Fat, not less than 4.0%
Crude Fiber, not more than..... 3.0%

INGREDIENTS

Each ingredient must be specifically named (unless stated as such in the guaranteed analysis listing) in accordance with the names and definitions adopted by the AAFCO.

Manufactured by

BLUE BIRD FEED MILLS

Robin, Indiana

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1970

For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Agricultural Supply Company, Owensboro, Ky. 42301	2	2	
Albany Mills, Albany Ky. 42602	3	3	
Allen Products Co., Inc., Allentown, Pa. 18104	6	6	
Allied Chemical Corp., Omaha, Neb. 68124	1	1	
Allied Foods, Inc., Atlanta, Ga. 30318	11	10	1
Allied Mills, Inc., Libertyville, Il. 60048	159	147	12
American Cyanamid Co., Princeton, N.J. 08540	4	4	
Amory Cotton Oil Co., Inc., Amory, Miss. 38821	1	1	
Anderson Farm Service, Lawrenceburg, Ky. 40342	5	2	3
Anderson & Spilman, Danville, Ky. 40422	16	14	2
Andrews Mills, Russellville, Ky. 42276	1	1	
Anglo Sweet Feed Mill, Inc., Owensboro, Ky. 42301	21	18	3
Armour-Dial, Inc., Chicago, Il. 60606	1	1	
Armour & Co., Chicago, Il. 60609	1	1	
Ashland Milling Co., Inc., Ashland, Ky. 41101	2	2	
Astor Products Co., Inc., Jacksonville, Fla. 32203	2	1	1
Aubrey Feed Mills, Inc., Louisville, Ky. 40204	142	135	7
Auburn Mills, Inc., Auburn, Ky. 42206	2	1	1
Aylor & Meyer Co., Aurora, Ind. 47001	1	1	
Bagdad Roller Mills, Bagdad, Ky. 40003	28	27	1
Baltz Bros. Packing Co., Nashville, Tenn. 37201	3	3	
Bi-County Farm Bureau Coop., Florence, Ky. 41042	2	2	
Bisset Farm Supply, Harrodsburg, Ky. 40330	5	5	
Blue Barn Dog Food Co., New Albany, Ind. 47150	9	9	
Bobb Brothers, Leesburg, Ohio 45135	1	1	
Bobby Boblett, Bardstown, Ky. 40006	1	1	
Boones Feed Store, Stanford, Ky. 40484	6	6	
Brooksville, Farm Supply, Brooksville, Ky. 41004	1	1	
Browder Milling Co., Fulton, Ky. 42041	2	2	
Brown Molasses Co., Bremen, Ind. 46506	1	1	
Bryant & Crume Milling Co., Caneyville, Ky. 42721	10	9	1
Buckeye Cellulose Corp., Cincinnati, Ohio 45201	7	5	2
Buckeye Cellulose Corp., Memphis, Tenn. 38108	1	1	
Bugg Bros. of Arlington, Inc., Arlington, Ky. 42021	1	1	
Burrows Feed Mill, Pendleton, Ky. 40055	1	1	
Bush Brothers & Co., Clinton, Tenn. 37716	5	5	
Cadiz Milling Co., Cadiz, Ky. 42211	7	7	
Calhoun Feed Service, Madisonville, Ky. 42431	1	1	
Campbellsville Milling Co., Campbellsville, Ky. 42718	4	4	
Caneyville Roller Mill Co., Caneyville, Ky. 42721	8	6	2
Cardinal Food Products, Inc., St. Louis, Mo. 63103	1	1	
Cargill, Inc., Minneapolis, Minn. 55402	2	2	
Cargill Nutrena Feed Div., Minneapolis, Minn. 55402	18	17	1
Carnation Company, Los Angeles, Calif. 90036	13	12	1
Catz American Co., Inc., New York, N.Y. 10014	2	1	1
Central Soya Co., Inc., Ft. Wayne, Ind. 46802	145	134	11
Central Soya Inc. of Ky., Louisville, Ky. 40204	2	1	1
Champion Valley Farms, Camden, N.J. 08101	1	1	
Cobbs Feed & Grain Co., Marion, Ky. 42064	7	7	
Community Milling Co., Irvington, Ky. 40146	1	1	
Community Feed Mill, Belton, Ky. 42324	5	4	1
Consolidated Mills, Inc., Blissfield, Mich. 49228	1	1	
Cooperative Mills, Inc., Cincinnati, Ohio 45215	4	3	1
Crescent Roller Mills, Taylorsville, Ky. 40071	12	11	1
Custom Feed Mills, Morganfield, Ky. 42437	18	18	
Davis Feed & Farm Supply, Greensburg, Ky. 42743	2	1	1
Dearborn Mills, Aurora, Ind. 47001	7	7	
Delta Oil Mill, Jonestown, Miss. 38639	1	1	
Dicken Mill, Mentor, Ky. 41060	4	3	1
Dixie Mills Co., E. St. Louis, Il. 62202	8	5	3
Doane Products Co., Joplin, Mo. 64801	2	2	
Duncan-McFarland Farm Service, Lawrenceburg, Ky. 40342	6	5	1

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1970

For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
F. L. Emmert Co., Inc., Cincinnati, Ohio 45214	2	2	
John W. Eshelman & Sons, Lancaster, Pa. 17604	16	15	1
Falstaff Brewing Corp., St. Louis, Mo. 63110	6	5	1
Famous Feed Mills, Nashville, Tenn. 37201	1	1	
The Farm Bureau Coop. Assn., Inc., Columbus, Ohio 43215	2	2	
Farm Service Center, Inc., Beaver Dam, Ky. 42320	4	4	
Farm Services, Inc., Glasgow, Ky. 42141	2	2	
Farmers Elevator Feed Div., Franklin, Ky. 42134	1	1	
Farmers Friend Mineral Co., Napoleon, Ohio 43545	1	1	
Farmers Milling Co., Somerset, Ky. 42501	4	3	1
Farmers Supply, Beaver Dam, Ky. 42320	2	2	
Farmers Supply Co., Springfield, Ky. 40069	5	5	
Farmers Supply & Produce Co., Monticello, Ky. 42633	2	1	1
Farmington Sweet Feed Mill, Farmington, Ky. 42040	1	1	
Farmland Industries, Inc., Kansas City, Mo. 64116	10	9	1
Farnam Companies, Inc., Phoenix, Ariz. 85001	1	1	
Fedders Feed Service, Owenton, Ky. 40359	1	1	
Feed Ingredient Co., Glasgow, Ky. 42141	1	1	
Field Packing Co., Owensboro, Ky. 42301	1	1	
Finch Packing, N. Vincennes, Ind. 47591	1	1	
Fischer Packing Co., Louisville, Ky. 40201	10	2	8
Folsomdale Milling Co., Boaz, Ky. 42027	2	1	1
Food Products Co. of America, Chicago, Ill. 60609	1	1	
R. T. French Manufacturers, Rochester, N.Y. 14609	1		1
Henry Fruechtenicht Co., Inc., Louisville, Ky. 40202	140	133	7
Fruen Milling Co., Minneapolis, Minn. 55403	3	3	
Garrard Mills, Lancaster, Ky. 40444	1	1	
J. J. Gates Milling Co., Columbus, Ohio 43223	6	3	3
General Foods Corp. Corn Mill, Kankakee, Ill. 60901	1	1	
General Foods Corp. Gaines Prof. Svc., White Plains, N.Y. 10602	8	7	1
General Mills, Inc., Minneapolis, Minn. 55440	1	1	
General Packing Co., Waynesville, Ohio 45068	2		2
Germantown Milling Co., Germantown, Ky. 41044	4	4	
Gooch Feed Mill Co., Lincoln, Neb. 68501	2	2	
Good-Life Chemicals, Inc., Effingham, Ill. 62401	1	1	
Grant Co. Farm Bureau, Dry Ridge, Ky. 41035	1	1	
The Great A&P Co., Inc., Brockport, N.Y. 14420	8	6	2
The Great Western Foods Co., Knoxville, Tenn. 37901	1	1	
Green County Milling Co., Greensburg, Ky. 42743	5	5	
Griffin Industries, Inc., Butler, Ky. 41006	1	1	
Earl Hale & Son, Jasper, Ohio 45642	2	2	
Hales & Hunter Co., Minneapolis, Minn. 55402	2	2	
Hardin County Milling Co., Elizabethtown, Ky. 42701	4	4	
Hardin Feed Mill, Hardin, Ky. 42048	1	1	
Hardy Salt Co., St. Louis, Mo. 63166	3	3	
Harrodsburg Farm Services, Harrodsburg, Ky. 40330	7	7	
Hartz Mountain Products, New York, N.Y. 10003	1		1
Harvest Brand, Inc., Pittsburg, Kan. 66762	9	9	
T. J. Haycraft Sales & Services, Leitchfield, Ky. 42754	1	1	
Haydon Mill & Grain Co., Springfield, Ky. 40069	3	2	1
Hayward, Inc., Oak Harbor, Ohio 43449	2	2	
Haven Hill Distilleries, Bardstown, Ky. 40004	6	6	
Dr. Heinz Co., Bloomsburg, Ohio 43106	12	9	3
Helena Cotton Oil Co., Helena, Ark. 72342	3	3	
Burch Hester Feed Store, Hustonville, Ky. 40437	5	4	1
Hi-Life Packing Co., Chicago, Ill. 60603	8	7	1
Hi-Vi Dog Food Co., Rush Springs, Okla. 73082	1	1	
Hills Div. Riviana Foods, Inc., Topeka, Kan. 66601	3	2	1
Frank Hinton & Son, Plummers Landing, Ky. 41089	2	2	
Home Milling Co., Inc., Greenville, Ky. 42345	6	5	1

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1970

For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Honeggers & Co., Fairbury, Il. 61739	1		1
Hopkinsville Milling Co., Hopkinsville, Ky. 42240	1	1	
The Hyland Co., Ashland, Ky. 41101	16	16	
International Mineral & Chem. Corp., Skokie, Il. 60077	2	2	
International Multifoods Corp., Minneapolis, Minn. 55415	32	31	1
Johnson Feed Mill, London, Ky. 40741	1	1	
Kal Kan Foods, Inc., Los Angeles, Cal. 90058	4	3	1
Kaler Milling Co., Symsonia, Ky. 42082	4	4	
Kalmbach Feeds, Inc., Upper Sandusky, Ohio 43351	1	1	
Kane Molasses Lab., Mt. Pulaske, Il. 62548	1	1	
Keco Milling Co., McKenzie, Tenn. 38201	10	10	
Ky. By-Products Corp., Louisville, Ky. 40211	14	8	6
Ky. Chemical Industries, Cincinnati, Ohio 45232	5	2	3
Kingston Farmers Exchange, Inc., Kingston, Ohio 45644	1	1	
Ed G. Koehl, Inc., Reading, Ohio 45215	2	2	
Kraft Foods Co., Chicago, Ill. 60612	2	2	
Lewisburg Roller Mills, Lewisburg, Ky. 42256	4	4	
Lilly Bros. Seed Co., Hopkinsville, Ky. 42240	2	2	
Liv-A-Snaps, Inc., St. Paul, Minn. 55112	4	4	
Livestock Industries, Inc., Park City, Ky. 42160	56	48	8
Lowes Feed & Hatchery, Bowling Green, Ky. 42101	11	7	4
Lowes Pellets & Grain, Inc., Greensburg, Ind. 47240	1	1	
M&W Milling Co., Inc., Columbia, Ky. 42728	2	2	
Mavar Shrimp & Oyster Co., Biloxi, Miss. 39530	5	5	
Mayes-Helm & Coyle, Perryville, Ky. 40468	4	4	
Mayfield Milling Co., Mayfield, Ky. 42066	6	6	
Mayfield Sweet Feed Mill, Mayfield, Ky. 42066	11	9	2
McCauley Bros. Seed Co., Inc., Versailles, Ky. 40383	14	13	1
McGahan & Co., Paintsville, Ky. 41240	2	2	
McRedmond Bros., Nashville, Tenn. 37210	1	1	
McWhorter Bros., Albany, Ky. 42602	1	1	
Mennel Milling Co., Fostoria, Ohio 44830	1	1	
Michigan Salt Co., St. Louis, Mich. 48880	1	1	
Mid-South Feeds, Inc., Nashville, Tenn. 37209	2	2	
Moorman Manufacturing Co., Quincy, Il. 62301	17	17	
Morgan Packing Co., Inc., Austin, Ind. 47102	1	1	
John Morrell & Co., Chicago, Il. 60604	1	1	
Morton Salt Company, Chicago, Il. 60606	2	2	
Mullican Feed Mill, Stanley, Ky. 42375	2	2	
Munfordville Milling Co., Mundfordville, Ky. 42765	3	3	
Henry Nagel & Son, Cincinnati, Ohio 45214	1	1	
Nashville Oil Mill Corp., Nashville, Tenn. 37202	1		1
National Biscuit Co., Toledo, Ohio 43603	1	1	
National Distillers Products, Cincinnati, Ohio 45246	1	1	
National Molasses Co., Cincinnati, Ohio 45201	1	1	
National Molasses Co., Willow Grove, Pa. 19090	6	5	1
National Oats Co., East St. Louis, Il. 62205	15	15	
Charles Nunn & Sons Milling, Evansville, Ind. 47712	16	15	1
Nutrena Mills, Inc., Minneapolis, Minn. 55402	6	5	1
Ohio Blenders, Inc., Toledo, Ohio 43611	5	5	
Odon Milling Co., Inc., Odon, Ind. 47562	2	2	
Orleans Canning Co., Chicago, Il. 60603	2		2
Orleans Packing Co., Chicago, Il. 60603	3	3	
Owensboro Grain Co., Owensboro, Ky. 42301	31	31	
Owensboro Milling Co., Owensboro, Ky. 42301	26	24	2
Pan American Mills, Bowling Green, Ky. 42101	12	9	3

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1970

For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Perk Foods Co., Div. Vets, Chicago, Il. 60610	2	2	
Philips Roxane Div., Kansas City, Mo. 66110	1		1
Pierce & Williams, Hopkinsville, Ky. 42240	4	4	
Pioneer Farm Service, Owensboro, Ky. 42301	2	2	
Princeton Mills, Princeton, Ky. 42445	9	8	1
Provico Feeds & Concentrates, Botkins, Ohio 54306	2	2	
Quaker Oats Co., Chicago, Il. 60654	16	15	1
Ragland Mills, Inc., Neosho, Mo. 64850	2	1	1
Ralston Purina Co., St. Louis, Mo. 63199	422	385	37
Reelfoot Alfalfa Mill, Tiptonville, Tenn. 38079	6	5	1
Rico Liquids, Inc., Aliceville, Ala. 35442	1	1	
Ringgold Milling Co., Clarksville, Tenn. 37042	1	1	
Ripps Feed Mill, Tollesboro, Ky. 41089	2	2	
Rival Pet Foods, Chicago, Il. 60632	6	6	
Riverside Industries, Inc., Marks, Miss. 38646	5	5	
Robertson Corporation, Seymour, Ind. 47274	4	4	
Allen Robertson & Co., Louisville, Ky. 40202	9	5	4
Robinson Grain Co., Hickman, Ky. 42050	2	2	
Robinson Milling Co., Somerset, Ky. 42501	10	10	
Rogers Feed Store, Corinth, Ky. 41010	3	2	1
G. P. Rose & Co., Inc., Nashville, Tenn. 37211	2	2	
Russell Springs Milling Co., Russell Springs, Ky. 42642	1	1	
Sandusky Mill, Harrodsburg, Ky. 40330	4	4	
Charles H. Schenck & Sons, Vincennes, Ind. 47591	1	1	
Scott County Milling Co., Sikeston, Mo. 63801	16	16	
Joseph E. Seagram & Sons, Inc., New York, N.Y. 10022	1	1	
Security Mills, Inc., Knoxville, Tenn. 37901	4	4	
Siemer Milling Co., Teutopolis, Il. 62467	1	1	
Smithfield Milling Co., Smithfield, Ky. 40068	1	1	
Snyder Molasses Co., Chicago, Il. 60626	1	1	
Southern Cotton Oil Co., Inc., New Orleans, La. 70112	6	6	
Southern States Hardin Coop., Elizabethtown, Ky. 42701	1	1	
Southern States Hopkinsville Coop., Hopkinsville, Ky. 42240	1	1	
Southern States Lebanon Coop, Lebanon, Ky. 40033	1	1	
Southern States Richmond, Coop, Richmond, Ky. 40475	1	1	
Southern States Cooperative, Baltimore, Md. 21203	239	218	21
Southern States Cooperative, Richmond, Va. 23213	3	3	
Sowell Bros. Feed Mill, Cerulean, Ky. 42215	1	1	
Woodford Spears & Sons, Paris, Ky. 40361	6	6	
Spencer Farm Service, Taylorsville, Ky. 40071	3	2	1
A. E. Staley Manufacturing, Decatur, Il. 62525	7	7	
Star-Kist Foods, Inc., Terminal Island, Cal. 90730	8	6	2
F. W. Stock & Sons, Inc., Hillsdale, Mich. 49242	1	1	
Strongheart Products Co., Kansas City, Ka. 66110	6	6	
Sturgis Milling Co., Sturgis, Ky. 42459	8	4	4
Sunshine Molasses Co., Somerset, Ky. 42501	1	1	
Super-Mol Div. Natl. Molasses Co., Tampa, Fla. 33619	8	4	4
Supreme Mills, Glasgow, Ky. 42141	46	31	15
D. B. Sutherland & Sons, Bloomfield, Ky. 40008	10	9	1
Swift & Co. Pet Foods, Chicago, Ill. 60604	3	3	
Swift & Co. Animal Protein Pl., Evansville, Ind. 47710	4	2	2
T. & H. Feed Service, Lebanon, Ky. 40033	4	3	1
Tabor Feed Mill, Columbia, Ky. 42728	6	6	
Teater & Cassity, Nicholasville, Ky. 40356	5	4	1
Tennessee Farmers Cooperative, Lavergne, Tenn. 37086	7	6	1

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1970

For samples not passed see Table 2

NAME AND ADDRESS OF MANUFACTURER	Number of Samples Analyzed and Examined	Number of Samples Passed	Number of Samples Not Passed
Tennessee Valley Cotton Oil Mill, Decatur, Ala. 35601	9	8	1
Thorobred Co., Inc., Waynesville, Ohio 45068	7	3	4
Mr. Toymaker Enterprises, Atlanta, Ga. 30318	1	1	
Tupelo Oil Mill, Inc., Tupelo, Miss. 38801	2	2	
Union County Grain Co., Sturgis, Ky. 42459	1	1	
Valley Pet Food Co., Div. Best Feeds, Oakdale, Pa. 15071	8	8	
Verhoff Alfalfa Mills, Ottawa, Ohio 45875	2	2	
Vets Division of Perk Foods Co., Chicago, Il. 60610	4	4	
V.M.S. Inc., Montgomery, Ala. 36101	2	2	
Vylactos Laboratories, Inc., Syracuse, Ind. 46567	1	1	
Vylactos Laboratories, Inc., Des Moines Ia. 50313	1	1	
Wiedemann Brewing Co., Newport, Ky. 40274	3	2	1
Weisenberger Mills, Midway, Ky. 40347	8	8	
Ralph Wells & Co., Monmouth, Il. 61462	2	1	1
West Tennessee Soya Mill, Inc., Tiptonville, Tenn. 38257	10	9	1
Western Alfalfa Corp., Kansas City, Mo. 64112	1	1	
Western Grain Co., Birmingham, Ala. 35202	2	2	
Wheatley Products Co., Morganfield, Ky. 42437	1	1	
R. L. Wiles Feed Mills, Inc., Nashville, Tenn. 37210	5	5	
Williamstown Roller Mills, Williamstown, Ky. 41097	3	3	
Wilson & Co., Inc., Chicago, Il. 60601	1	1	
Winn Milling Co., Greensburg, Ky. 42743	5	4	1
Y-V Minerals, Inc., Greenwood, Ind. 46142	1	1	
	2803	2555	248
		91.0%	9.0%

Samples are shown as "not passed" in Table 2 when extremely deficient or excessively above guarantee as follows:

Protein:	More than 2 units* below guaranty Exceeds guaranty by 5 or more units
NPN:	Exceeds guaranty by more than 2 units
Fat:	More than 2 units below guaranty Exceeds guaranty by 5 or more units
Fiber:	Exceeds guaranty by more than 2 units
Invert Sugar:	10% lower than guaranty
Salt:	Varies from guaranty by plus or minus 2 units
Calcium:	Varies from guaranty by plus or minus 2 units
Magnesium, Manganese, Copper, Iron, Zinc:	± 40%
Oxytetracycline, Penicillin, Chlortetracycline:	± 50%
Phenothiazine, Sulfamethazine, Furazolidone, Arsanilic Acid, 3-Nitro-4-hydroxyphenyl arsonic Acid, Piperizine, Nitrofurazone, Zoalene:	± 40%
Tylosin:	± 30%

* One percentage point is considered a unit. Example: a "found" value of 15%, is 1 unit below a guarantee of 16%.

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Allied Foods, Inc., Atlanta, Ga. 30318 Switch to Switch Cat Food	Crude Protein 12.0%	8.2%
Allied Mills, Inc. Libertyville, Il. 60048 Ful-O-Pep 40% Hog Concentrate M Wayne Calf Supplement, Medicated Wayne Pig Balancer 400, Medicated Wayne 37% Cattle Blox Ful-O-Pep Sow Supplement Ful-O-Pep Sow Supplement Ful-O-Pep Milking 50 Wayne Hog Supplement M-31 Wayne Pip Z Hog Wormer, Medicated Wayne Cattle Balancer 16% High Flow Pelleted Dairy Wayne Milking 40 Special	Crude Protein 40.0% Chlortetracycline 100 gm/T Chlortetracycline 148 gm/T Salt, Max. 16.0% Crude Protein 35.0% Crude Protein 35.0% Crude Protein 50.0% Crude Protein 40.0% Piperazine 0.2200% Crude Protein 32.0% Crude Fiber 9.0% Crude Fiber 10.0%	36.6% 247.4 gm/T 230.7 gm/T 18.2% 31.0% 30.8% 55.7% 37.1% 0.4560% 29.7% 12.4% 12.9%
Anderson County Farm Service, Lawrenceburg, Ky. 40342 Anderson County 16% Dairy Feed Anderson County 16% Dairy Feed Anderson County 16% Dairy Feed	N.P.N. 2.80% N.P.N. 2.80% N.P.N. 2.80%	5.40% 5.70% 5.50%
Anderson & Spilman, Danville, Ky. 40422 50% Range Cattle Concentrate A&S 16% Sow & Pig Feed, Medicated	Crude Protein 50.0% Crude Fiber 4.75%	46.3% 9.10%
Anglo Sweet Feed Mill, Inc., Owensboro, Ky. 42310 Ace Perfection 40% Protein Pig & Hog Suppl., Med Ace Perfection 18% Protein Pig & Hog Wormer, Med Ace Perfection 32% Poultry & Turkey Mash Suppl.	Calcium, Min. 5.0% Crude Protein 18.0% Crude Protein 32.0% Crude Fiber 8.0%	2.20% 13.9% 29.7% 11.0%
Astor Products, Inc., Jacksonville, Fla. 32203 Slick Cat Food	Crude Protein 12.0%	9.3%
Aubrey Feed Mills, Inc., Louisville, Ky. 40204 Red A 44% Dairy Supplement Red A 38% Protein Block Red A 32% Cattle Supplement Meal Red A 50% Cattle Supplement Red A 50% Cattle Supplement Red A Mix Mo-Las Red A 50% Protein Meal & Bone Meal	Crude Protein 44.0% N.P.N. 14.2% Calcium, Max. 3.0% Crude Protein 32.0% Crude Protein 50.0% Crude Protein 50.0% Sugar, Invert 42.0% Crude Fat 6.0%	41.9% 16.8% 5.3% 37.2% 45.6% 47.4% 35.6% 11.1%
Auburn Mills, Inc., Auburn, Ky. 42205 Leader Wheat Bran	Crude Fiber 8.0%	10.8%
Bagdad Roller Mills, Bagdad, Ky. 40003 Rocket Age 45% Ruminant Concentrate	Crude Protein 45.0%	41.6%
Bryant & Crume Milling Company, Caneyville, Ky. 42721 Gold Medal 24% Dairy Feed	Crude Protein 24.0%	19.0%
Buckeye Cellulose Corp., Cincinnati, Ohio 45201 41% Cottonseed Meal Buckeye 41% Protein Solv. Extr. Cottonseed Meal	Crude Protein 41.0% Crude Protein 41.0%	47.6% 37.1%
Caneyville Roller Mill Co., Caneyville, Ky. 42721 40% Hog Supplement, Medicated 40% Hog Supplement, Medicated	Crude Fiber 2.5% Crude Fiber 2.5%	7.3% 6.7%
Cargill Nutrena Feed Div., Minneapolis, Minn. 55402 Sweetflow-41 Dairy Concentrate(K)	Crude Protein 41.0%	36.7%
Carnation Company, Los Angeles, California 90036 Friskies Fish Flavor Cat Food	Crude Fat 2.0%	7.6%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Catz American Company, Inc., New York, N.Y. 10014 Here Kitty Cat Food	Crude Fat 4.0%	12.9%
Central Soya Company, Inc., Fort Wayne, Ind. 46802 Master Mix Free Choice Pig Concentrate, Med. Master Mix Gro-Getter Concentrate 767 Master Mix Gro-Getter Concentrate 767 Master Mix Gro-Getter Concentrate 767 Master Mix 42% Pig Master Concentrate 862-99P	Penicillin 15 gm/T Salt, Max 4.5% Crude Protein 40.0% Crude Protein 40.0% Arsanilic Acid 0.065%	6.5 gm/T 9.2% 33.1% 37.2% 0.0275% contained Feather Meal though not listed as an ingredient
Master Mix Egg Concentrate 263 Master Mix 42% Pig Master Concentrate 862 Master Mix 42% Pig Master Conc. 862-99P, Med. Master Mix 50% Milk Master 675 Master Mix 50% Milk Master 675 Master Mix 50% Milk Master 675	Crude Protein 42.0% Crude Protein 42.0% Arsanilic Acid 0.065 Crude Protein 50.0% Crude Protein 50.0% Crude Protein 50.0%	37.0% 39.1% 0.0211% 47.5% 39.8% 44.6%
Central Soya of Ky., Louisville, Ky. 40204 Gilt Edge 37% Supplement Block	Copper 0.01% Manganese 0.136% Magnesium 0.50%	0.144% 0.460% 0.99%
Community Feed Mill, Belton, Ky. 42324 Johnsons 16% Dairy Feed	Crude Protein 16.0%	13.9%
Cooperative Mills, Cincinnati, Ohio 45215 Pig Developer Super Concentrate	Salt, Min. 7.5%	4.3%
Crescent Roller Mills, Taylorsville, Ky. 40071 Crescent 50% Dairy Supplement	Crude Protein 50.0%	56.2%
Davis Feed & Farm Supply, Greensburg, Ky. 42743 Hog Feed	Crude Fiber 6.0%	8.3%
Dicken Mill, Mentor, Ky. 41060 Sunny Grain Brand 20% Dairy Feed	Crude Protein 20.0%	16.2%
Dixie Mills Company, E. St. Louis, Il. 62202 Dixie 44% Dairy Mixer, Medicated Dixie 44% Dairy Mixer, Medicated Dixie 44% Dairy Mixer, Medicated	Crude Protein 44.0% Crude Protein 44.0% N.P.N. 22.0%	27.8% 40.5% 27.2%
Duncan-McFarland Farm Service, Lawrenceburg, Ky. 40342 16% Dairy Feed	Crude Protein 16.0%	13.3%
John W. Eshelman & Sons, Lancaster, Pa. 17604 Red Rose Beef Block	Salt, Max. 14.0% Magnesium 0.40%	17.7% 0.77%
Falstaff Brewing Corp., St. Louis, Mo. 63110 Falstaff Stable Mix 12 Horse Feed	Crude Protein 12.0%	19.0%
Farmers Milling Company, Somerset, Ky. 42501 Farmers 16% Dairy Feed	Crude Protein 16.0%	12.2%
Farmers Supply & Produce Co., Monticello, Ky. 42633 16% Dairy Feed	Crude Protein 16.0%	10.4%
Farmland Industries, Inc., Kansas City, Mo. 64116 Coop Sow Supplement 25(A)	Crude Protein 25.0%	21.6%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Fischer Packing Company, Louisville, Ky. 40201		
Fischers 60% Protein Meat Meal Tankage	Crude Protein 60.0%	57.0%
Fischers 60% Protein Meat Meal Tankage	Crude Protein 60.0%	57.3%
Fischers 60% Protein Meat Meal Tankage	Crude Protein 60.0%	56.9%
Fischers 60% Protein Meat Meal Tankage	Crude Protein 60.0%	57.4%
Fischers 60% Protein Meat Meal Tankage	Crude Protein 60.0%	53.9%
Fischers 60% Protein Meat Meal Tankage	Crude Protein 60.0%	54.4%
Fischers 60% Protein Meat Meal Tankage	Crude Protein 60.0%	57.2%
Fischers 60% Protein Meat Meal Tankage	Fat 5.0%	11.0%
Folsomdale Milling Company, Boaz, Ky. 42027		
"Folsomdale Special" 16% Dairy Feed	N.P.N. 0.90%	4.3%
R. T. French Manufacturers, Rochester, N.Y. 14609		
French's Doggie Do-Nuts	Crude Fat 15.0%	20.1%
Henry Fruechtenicht Co., Inc., Louisville, Ky. 40202		
Producer Cattle Block	N.P.N. 13.6%	16.9%
Producer 40% Pig & Hog Supplement	Crude Protein 40.0%	35.8%
Producer Pig Grower T Medicated 405	Tylosin 40 gm/T	26.8 gm/T
Producer Pig Grower Medicated	Tylosin 40 gm/T	20.9 gm/T
Producer Pig Grower T Medicated	Tylosin 40 gm/T	20.8 gm/T
Producer Pig Developer, Medicated	Penicillin 50 gm/T	14 gm/T
	Sulfamethazine 0.011%	0.0044%
Producer Dairy Balancer	Crude Protein 41.0%	49.4%
J. I. Gates Milling Company, Columbus, Ohio 43223		
Economy 22% Brewers-Molass	Crude Protein 22.0%	14.0%
Brewers Dried Grains	Crude Protein 24.0%	29.4%
Well Maid Sweet Feed	Crude Protein 24.0%	20.6%
General Foods Corp., White Plains, N.Y. 10602		
Gains Burgers Dog Food	Crude Fat 7.0%	12.1%
General Packing Company, Waynesville, Ohio 45068		
Viking Dog Food	Crude Protein 10.0%	7.7%
Down Boy Dog Food	Crude Protein 10.0%	7.8%
The Great A&P Tea Co., Inc., Brockport, N.Y. 14420		
A&P Meat Flavor Dog Food	Crude Fat 3.5%	8.9%
Medallion Dog Food, Beef & Beef By Products	Crude Fat 6.0%	11.4%
Hartz Mountain Products, New York, N.Y. 10003		
Dog Yummies	Crude Protein 28.0%	39.7%
Haydon Mill & Grain Co., Springfield, Ky. 40069		
Magic Growing Mash Crumbles, Medicated	Zoalene 0.0104%	0.0038%
Dr. Heinz Company, Bloomingburg, Ohio 43106		
Pip-per-Pels Wormer	Piperazine 0.15%	0.211%
Heinz Nu-Way 45% Dairy Mixer Concentrate	Crude Protein 45.0%	40.5%
Heinz Nu-Way Pig Starter, Medicated	Penicillin 15.0 gm/T	30.0 gm/T
Burch Hester Feed Store, Hustonville, Ky. 40437		
Big Chief 20% Dairy Feed	Crude Protein 20.0%	15.9%
Hi-Life Packing Company, Chicago, Il. 60603		
A&P Chunks Beef Flavor Dog Food	Crude Fat 6.0%	12.4%
Hills Division Riviana Foods, Inc., Topeka, Ka. 66601		
Hills Horse Meat & By Products	Crude Protein 17.0%	14.5%
Home Milling Co., Inc., Greenville, Ky. 42345		
Champion 25% Protein Expanded Dog Food	Crude Protein 25.0%	22.1%
Honeggers & Co., Inc., Fairburn, Il. 61739		
24% Dairy 314	Crude Protein 24.0%	21.5%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
International Multifoods Corp., Minneapolis, Minn. 55415 Supersweet 17½ All Mash Layer (Floor & Cage), Medicated	Arsanilic Acid 0.01%	0.0032%
Kal Kan Foods, Inc., Los Angeles, Cal. 90058 Kal Kan Chicken Parts with By-Products-Dogs 'N Cats	Crude Fat 9.5%	16.5%
Kentucky By-Products Corp., Louisville, Ky. 40211 Dri-Molass Dri-Molass Dri-Molass Dri-Molass Dri-Molass Dri-Molass	Crude Fiber 8.0% Sugar, Invert 42.0% Sugar, Invert 42.0% Crude Fiber 12.0% Sugar, Invert 42.0% Sugar, Invert 42.0% Crude Fiber 12.0%	10.6% 36.5% 37.5% 15.4% 33.9% 37.7% 16.2%
Kentucky Chemical Industries, Cincinnati, Ohio 45232 K. C. Brand 60% Meat Meal Tankage K. C. Brand 50% Meat & Bone Meal K. C. Brand Steamed Bone Meal	Crude Protein 60.0% Crude Fat 4.0% Crude Protein 5.0% Calcium, Max. 23.0%	57.5% 13.0% 12.6% 27.25%
Livestock Industries, Inc., Park City, Ky. 42160 Life Pig Grower, Medicated Life Dairy Fifty Life Dairy Fifty Life Dairy Fifty Life Chick Ration, Medicated Life Solvent Extracted Soybean Meal Life Beef Supplement Life Beef Supplement	3-Nitro-4 0.0025% Crude Fat 6.0% Crude Fat 6.0% Crude Fat 6.0% Acetyl(Para-Nitrophenyl) Sulfanilamide 0.02% This feed also seriously infested with feed mites. Crude Protein 44.0% Crude Protein 42.0% Crude Protein 42.0%	0.0047% 2.4% 2.4% 3.8% 0.0056% 41.5% 38.9% 39.4%
Lowes Feed & Hatchery, Bowling Green, Ky. 42101 Lowes 42% Pig Concentrate, Medicated Lowes 42% Pig Concentrate, Medicated Lowes 42% Pig Concentrate, Medicated Lowes Pig Pre-Starter, Medicated	Crude Protein 42.0% Crude Protein 42.0% Crude Protein 42.0% Crude Protein 20.0%	39.8% 37.6% 37.6% 16.6%
Mayfield Sweet Feed Mill, Mayfield, Ky. 42066 State Leader 40% Hog Supplement "Maysweet" 7 to 1 Hog Feed, Medicated	Crude Protein 40.0% Tylosin 20 gm/T	36.3% 11.0 gm/T
McCauley Brothers Seed Co., Inc., Versailles, Ky. 40383 40% Ag Time Beef Supplement, Medicated	Crude Fiber 9.0%	11.6%
Nashville Oil Mill Corp., Nashville, Tenn. 37202 41% Protein Solvent Extr. Cottonseed Meal	Crude Protein 41.0% Crude Fiber 14.0%	38.8% 16.3%
National Molasses Company, Willow Grove, Pa. 19090 Mol-Mix Liquid Feed Supplement	Crude Protein 32.0%	26.4%
Charles Nunn & Sons Milling, Evansville, Ind. 47712 Nunn-Better Pig Jets, Medicated	Sulfamethazine 0.011%	0.0175%
Nutrena Mills, Inc., Minneapolis, Minn. 55402 Pig 38 Concentrate(U), Medicated	Tylosin 400 gm/T	221.3 gm/T
Orleans Canning Co., Chicago, Il. 60603 Orleans Horse Meat & Meat By-Products Orleans Horse Meat & Meat By-Products	Crude Fat 6.0% Crude Fat 6.0%	17.0% 12.9%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

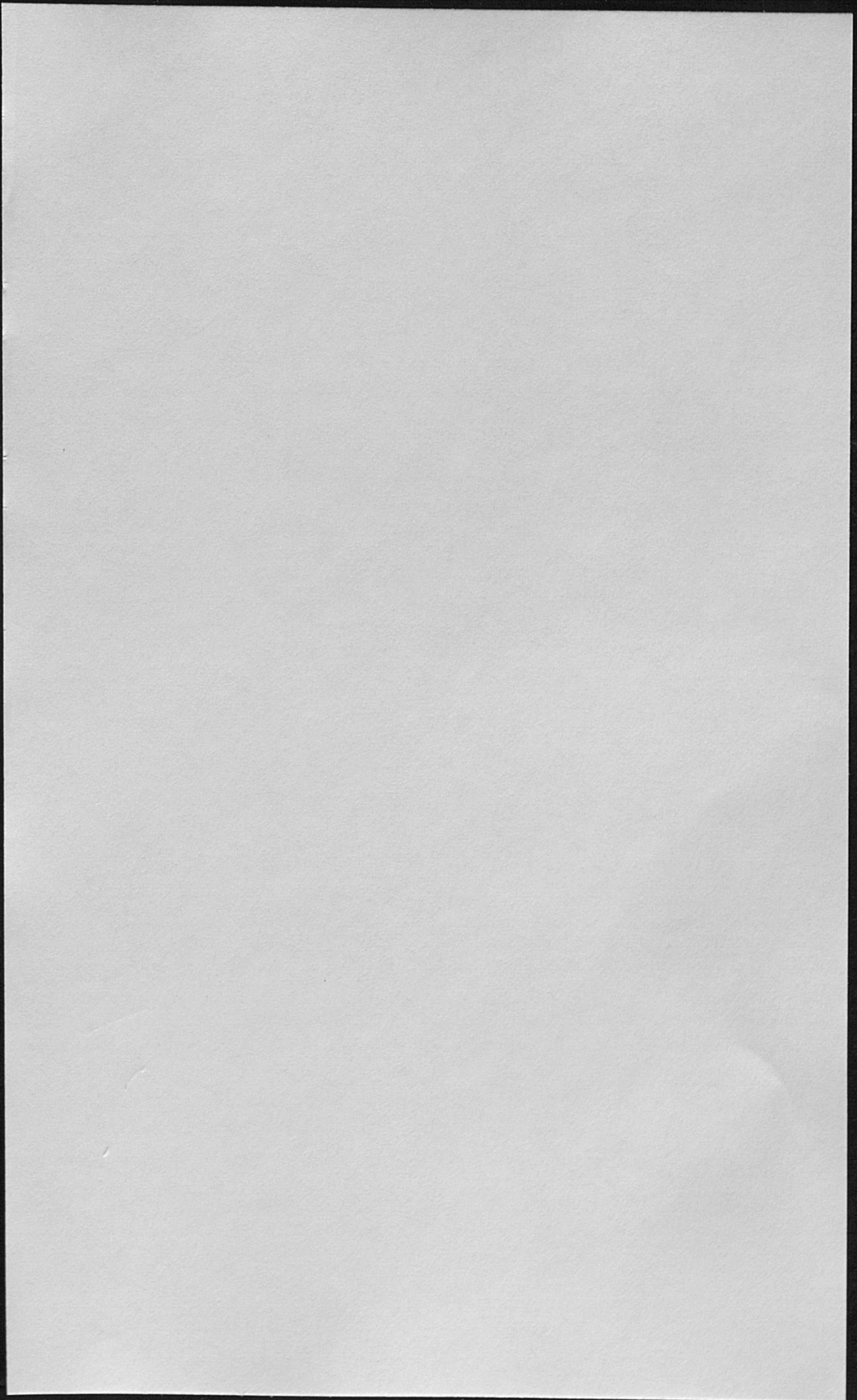
MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Owensboro Milling Company, Owensboro, Ky. 42301 TruTest 14% Sow & Gilt Pellets, Medicated TruTest 36% Pig & Sow Concentrate, Medicated	Furazolidone 0.0165% Crude Protein 36.0%	0.0038% 42.1%
Pan American Mills, Bowling Green, Ky. 42101 Green Valley 40% Hog Supplement Booster 40% Hog Supplement Green Valley 13% Hog Finisher Pellets	Crude Protein 40.0% Crude Protein 40.0% Penicillin 3.0 gm/T	37.6% 37.6% 5.8 gm/T
Philips Roxane Div., Kansas City, Mo. 66110 Pig Starter Premix 250, Medicated	Manganese 1.75%	4.98%
Princeton Mills, Princeton, Ky. 42445 Purina Pro-Lay Mild-Temp. D	Crude Protein 15.0%	22.6%
Quaker Oats Company, Chicago, Il. 60654 Puss 'N Boots, Chicken Parts	Crude Protein 10.0%	5.3%
Ragland Mills, Inc., Neosho, Mo. 64850 Ranch-O 40% Range Blocks	Crude Protein 40.0% Calcium, Min. 5.0% Salt, Min. 13.0%	45.5% 2.1% 5.7%
Ralston Purina co., St. Louis, Mo. 63199 Purina Meat Plus Chicken & Chicken By-Products For Dogs	Crude Fat 5.0%	13.4%
Purina Meat Plus Beef	Crude Fat 7.5%	17.6%
Purina Meat Plus Beef & Eggs	Crude Fat 7.5%	14.4%
Purina Meat Plus Chicken	Crude Fat 5.0%	12.2%
Purina Hog Supplement 2810C	Crude Protein 35.0%	32.9%
Purina Special Steer 50, Medicated	Crude Protein 50.0%	45.0%
Purina Pig Startena, Medicated	Chlortetracycline 100 gm/T Penicillin 50.0 gm/T	16.4 gm/T 11.1 gm/T
Purina Sardines	Sulfamethazine 0.011%	0.0017%
Purina Beef & Meat By-Products	Crude Fat 4.0%	10.0%
Purina Chicken Parts & Tuna Liver	Crude Protein 11.0%	6.0%
Purina Cat Food 6	Crude Fat 8.0%	14.9%
Purina Sardines	Crude Fat 8.0%	14.6%
Purina Pig Chow, Medicated	Crude Fat 4.0%	10.1%
Purina Mackerel	Salt, Max. 2.5%	4.6%
Purina Plus, Chicken & Chicken By-Products	Crude Fat 1.5%	8.3%
Purina Meat Plus, Beef & Eggs & Meat By-Products	Crude Fat 5.0%	12.0%
Purina Pig Chow(B) 40, Medicated	Crude Fat 7.5%	14.7%
Purina Special Steer 40	Penicillin 200 gm/T	89.8 gm/T
Purina Pig Chow 40, Medicated	Crude Protein 40.0%	36.8%
Purina Milk Chow H Special 20%	Sulfamethazine 0.044%	0.0247%
Purina Pura-Lasses	Crude Protein 20.0%	17.4%
Purina Pig Chow 40 (G), Medicated	Sugar, Invert 42.0%	36.0%
Purina Special Steer Fatena (J) 50	Sulfamethazine 0.044%	0.0%
Purina Cow Chow Concentrate (B) 32% G	Crude Protein 50.0%	39.4%
Purina Pro-Lay Shell Pak 6618 (Special Med.)	Crude Protein 32.0%	29.8%
Purina Pig Startena, Medicated 2013 C	Furazolidone 0.011%	0.0044%
Purina Pura-Lasses	Penicillin 50.0 gm/T	22.6 gm/T
Purina Pig Startena (G), Medicated	Sugar, Invert 42.0%	37.3%
Purina Dairy Chow 20% K	Crude Protein 18.0%	15.9%
Purina Check-Fly Cattle Block, Med. F 1015	Crude Protein 20.0%	17.0%
Purina Stimupak, Medicated	Salt, Max. 15.0%	25.2%
Purina Pork Supplement (J) AB, Medicated	Crude Protein 36.0%	33.6%
Purina Special Steer Fatena, (F) 50	Penicillin 16.5 gm/T	8.2 gm/T
Purina Pig Chow 40, Medicated 2805	Crude Protein 50.0%	57.0%
Purina Sow Chow	Chlortetracycline 400 gm/T	119.2 gm/T
Purina Pre-Conditioning Chow	Penicillin 200 gm/T	47.1 gm/T
Purina Pura-Lasses	Sulfamethazine 0.044%	0.0093%
Reelfoot Alfalfa Mill, Tiptonville, Tenn. 38079	Crude Protein 32.0%	22.2%
Reelfoot Dehydrated Alfalfa	Crude Protein 12.0%	17.3%
	Crude Fiber 12.0%	16.0%
	Crude Protein 17.0%	14.2%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Allen Robertson & Co., Louisville, Ky. 40202 Farm-R-Choice 52% Concentrate For Dairy, Beef Cattle & Sheep Far-R-Choice 52% Concentrate Farm-R-Choice 40% Hog Concentrate, Medicated	N.P.N. 33.0% Crude Protein 52.0% Crude Protein 40.0%	36.7% 48.6% 36.9%
Rogers Feed Store, Corinth, Ky. 41010 H/M 13½ Dairy	Crude Protein 13.5%	10.4%
Southern States Coop., Baltimore, Md. 21203 S.S. 38 Sow & Pig Supplement, Medicated S.S. 37% Utility Block	Crude Protein 38.0% Calcium, Max. 3.5% Copper 0.01% Iron 0.165% Manganese 0.136% Crude Protein 12.0% N.P.N. 12.3%	35.2% 5.7% 0.37% 0.42% 0.075% 20.0% 15.2%
S.S. Hog Grower S.S. 37% Feed Block Red Ranger Dog Food S.S. Hi-Blend (Cattle Supplement) S.S. Pro-Blend "50" S.S. Super Hog Supplement S.S. Anti-Fly Block, Medicated S.S. 44% Farm Mill Supplement	Crude Protein 11.0% Crude Protein 44.0% Crude Protein 50.0% Salt, Min. 7.5% Crude Protein 16.0% Crude Protein 44.0% N.P.N. 15.0%	8.7% 51.9% 55.5% 5.0% 31.5% 51.5% 17.7%
S.S. 40% Pork Maker S.S. Pig Creep Nuggets, Medicated S.S. Pig Starter, Medicated (HG) S.S. 38% Sow & Pig Supplement, Medicated S.S. Anti-Fly Block, Medicated S.S. Co-Lass Mix A S.S. Multi-Blend "32" S.S. 38% Sow & Pig Supplement, Medicated S.S. 37% Utility Feeding Block	Crude Protein 40.0% Penicillin 50 gm/T Crude Protein 18.0% Chlortetracycline 50 gm/T Salt, Max. 16.0% Crude Protein 30.0% N.P.N. 12.5% Crude Protein 38.0% Crude Protein 37.0% N.P.N. 18% N.P.N. 20.0%	35.6% 24.4 gm/T 12.3% 21.6 gm/T 20.0% 37.2% 15.1% 34.5% 42.0% 22.1% 22.8%
S.S. 42% Dari Blend S.S. Pro-Blend "50"	Crude Protein 50.0%	56.2%
Spencer Farm Service, Taylorsville, Ky. 40071 Special 16% Dairy Feed	Crude Protein 16.0%	10.4%
Star-Kist Foods, Inc., Terminal Island, Cal. 90730 9-Lives Kidney Cat Food 9-Lives Tuna Cat Food	Crude Fat 7.0% Crude Protein 22.5%	13.6% 20.2%
Sturgis Milling Co., Sturgis, Ky. 42459 Hoppys' 40% Hog Concentrate Hoppys' 35% Pig Supplement, Medicated Hoppys' 18% Pig Starter, Pellets A Hoppys' 20% Pig & Sow Meal, Medicated	Arsanilic Acid 0.04% Penicillin 50 gm/T Penicillin 12.5 gm/T Penicillin 50.0 gm/T Penicillin 2.5 gm/T	0.0% 0.0 gm/T 4.6 gm/T 23.1 gm/T 5.2 gm/T
Super-Mol Div. Natl. Molasses Co., Tampa, Fla. 33619 Super Lass Dehydrated Cane Molasses Super Lass Dehydrated Cane Molasses Super Lass Super Lass	Sugar, Invert 42.0% Sugar, Invert 42.0% Sugar, Invert 42.0% Sugar, Invert 42.0%	37.1% 36.7% 37.7% 36.9%
Supreme Mills, Glasgow, Ky. 42141 Supreme 17½ Pig & Hog Feed Supreme Premo-Lass Supreme Premo-Lass Supreme Premo-Lass Supreme Premo-Lass Supreme 33% Beef Supplement Happy Valley Hog Wormer, Medicated 45% Dairy Concentrate	Crude Protein 17.5% Crude Protein 7.0% Crude Fiber 8.0% Sugar, Invert 42.0% Crude Fiber 8.0% Crude Fiber 8.0% Crude Fiber 8.0% Crude Protein 33.0% Piperazine 0.208% Crude Protein 45.0%	24.3% 12.0% 12.8% 36.0% 11.7% 11.9% 12.4% 30.9% 0.096% 50.2%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Supreme 33% Beef Supplement	Crude Protein 33.0%	28.9%
Drummer Boy 40% Protein Hog Supplement	Crude Protein 40.0%	36.9%
Drummer Boy 40% Protein Hog Supplement	Crude Protein 40.0%	36.6%
Supreme Brand 50% Dairy Supplement	Crude Protein 50.0%	46.8%
Drummer Boy 40% Protein Hog Supplement	Crude Protein 40.0%	37.8%
Supreme Brand 17½ Protein Pig & Hog Feed, Med.	Tylosin 20 gm/T	8.9 gm/T
Supreme Brand 18% Protein Pig Ration, Medicated	Tylosin 20 gm/T	8.8 gm/T
D. B. Sutherland & Sons, Bloomfield, Ky. 40008 Sutherlands 40% Hog Supplement	Crude Protein 40.0%	36.8%
Swift & Co., Animal Protein Plant, Evansville, Ind. 47710	Crude Protein 60.0%	57.7%
Meat Meal Tankage	Crude Protein 50.0%	57.2%
Swift Meat & Bone Meal		
Teater & Cassity, Nicholasville, Ky. 40356 Profit Maker 16% Dairy Feed D	Crude Protein 16.0%	13.0%
Tennessee Farmers Cooperative, La Vergne, Tenn. 37086 Coop 16% Pig Grower Pellets, Medicated	Arsanilic Acid 0.01%	0.0036%
Tennessee Valley Cotton Oil Mill, Decatur, Ala. 35601 41% Cottonseed Meal	Crude Protein 41.0%	37.3%
	Crude Fiber 14.0%	16.4%
T&H Feed Service, Lebanon, Ky. 40033 16% Dairy Feed	N.P.N. 1.7%	5.1%
	Salt, Min. 4.0%	1.1%
Thorobred Company, Inc., Waynesville, Ohio 45068 Thorobred All Beef Dog Food	Crude Fat 6.0%	11.7%
Thorobred Gourmet Pack, Horsemeat & Meat By- Products For Dogs	Crude Fat 4.0%	14.1%
Thorobred Gourmet Pack, Horsemeat & Meat By- Products For Dogs	Crude Fat 4.0%	16.8%
Thorobred Gourmet Pack All Beef Dog Food	Crude Fat 6.0%	17.2%
V.M.S., Inc., Montgomery, Ala. 36101 Kattle King 40% Range Supplement Block	N.P.N. 12.0%	19.5%
Kattle King 40% Range Supplement Block	N.P.N. 12.0%	18.2%
Ralph Wells & Co., Monmouth, Il. 61462 Corn Flake Crumbs	Crude Protein 10.0%	15.4%
	Crude Fat 15.0%	23.7%
George Wiedemann Brewing Co., Newport, Ky. 41071 Brewers Dried Grains	Crude Protein 24.0%	29.8%
West Tenn. Soya Mill, Inc., Tiptonville, Tenn. 38257 Soybean Meal	Crude Protein 44.0%	41.5%
Winn Milling Co., Greensburg, Ky. 42743 Daisy 20% Dairy Feed	Crude Protein 20.0%	17.6%



4M--7-71