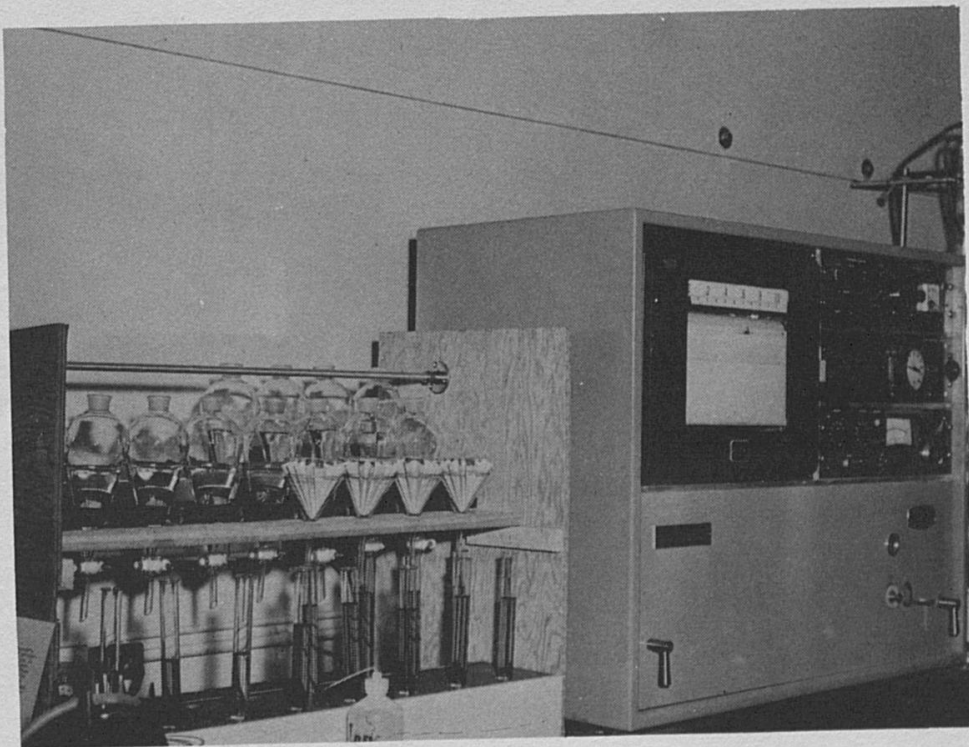


Commercial Feeds in Kentucky

1969



Laboratory equipment used in analyzing feed samples.

Regulatory Bulletin 205

University of Kentucky
Agricultural Experiment Station
Lexington

FEEED 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		Ellis Hugh Ray
Joe B. Brown	Claude E. Hensley	William K. Robertson
Elmer Cottongim	Wallace L. King	Eugene G. Vanderpool
Ben W. Cox		Samuel D. Whitehead

LABORATORY

Valva C. Midkiff, Chief Chemist
and Coordinator Chemical Laboratories

John T. Adair	*John Ellis	Ellen Perry
Barbara Anderson	Norma Holbrook	Robert N. Price
Elizabeth Brown	James Music	J. A. Shrader
Judy Dombroski		Carolyn Sue Witt

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

* Resigned November 1969.

INTRODUCTION

This bulletin contains the results of inspection and analysis of commercial feeds sold in Kentucky during the calendar year of 1969, and other information helpful to those interested in this field.

During 1969, 3,043 official samples of feed were secured by inspectors. 2,752 or 90.5% of these passed inspection and analysis satisfactorily. During 1968, 2,769 official samples were secured and 93% of these were passed. The total estimated tonnage of commercial feeds distributed in Kentucky for 1969 was 651,787 tons. In 1968, the tonnage was 627,500 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 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 64 samples of feeds that were not registered. Feed manufacturers have been most cooperative in registering such feeds. 104 stop sales were issued during the year on feeds. 56 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, 1969

<u>Mixed Feed</u>	<u>Tons</u>
Calf Feed	8,994
Cattle Feed	32,492
Dairy Feed	153,002
Dog & Cat Feed	27,734
Horse & Mule Feed	22,648
Mineral Feed	7,875
Pig & Hog Feed	146,343
Poultry Mashs	105,421
Rabbit Feed	2,040
Scratch Feed	5,748
Sheep Feed	552
Turkey Mashs	1,145
Miscellaneous Mixed Feed	<u>17,697</u>
TOTAL MIXED FEED	<u><u>533,757</u></u>
<u>Straight Materials</u>	
Alfalfa Products	3,589
Animal Products	2,660
Barley Products	183
Brewers Products	798
Corn Products	24,648
Cottonseed Products	6,838
Distillers Products	7,400
Linseed & Flax Products	552
Molasses	15,806
Oat Products	2,942
Soybean Products	25,940
Wheat Products	18,206
Miscellaneous Products	<u>8,468</u>
TOTAL STRAIGHT MATERIAL	<u><u>118,030</u></u>
GRAND TOTAL	<u><u>651,787</u></u>

COMPANIES HAVING FEED REGISTERED, 1969

- Acme-Evans Co., Inc., Indianapolis, In. 46222
 Adams Packing Assn., Inc., Auburndale, Fl. 33823
 Ade Farm Chemical Co., Inc., Tiskilwa, Il 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 Foods Inc., Atlanta, Ga. 30318
 Allied Mills, Inc., Libertyville, Il. 60048
 Allison Mills, Inc., Little Rock, Ar. 72204
 Alver Brothers Co., Milford, Il. 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, Al. 35223
 American Salt Corp., Des Plaines, Il. 60018
 American Salt Corp., Kansas City, Mo. 64111
 Amory Cotton Oil Co., Inc., Amory, Ms. 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, Il. 62223
 Anvil Mineral Prod. Corp., Bay Springs, Ms. 39422
 Apex Feed & Supply, Inc., Marietta, Oh. 45750
 Archer Daniels Midland Co., Minneapolis, Mn. 55440
 Arkansas Grain Corp., Stuttgart, Ar. 72160
 Arkansas Rice Growers Coop., Stuttgart, Ar. 72160
 Armour Creameries, Springfield, Ky. 40069
 Armour-Dial, Inc., Chicago, Il. 60606
 Armour & Co., Chicago, Il. 60609
 Ashland Milling Co., Ashland, Ky. 41101
 Astor Products, Inc., Jacksonville, Fl. 32202
 The Attala Co., Kosciusko, Ms. 39090
 Aubrey Feed Mills, Inc., Louisville, Ky. 40204
 Auburn Mills, Inc., Auburn, Ky. 42206
 Aylor & Meyer Co., Aurora, In. 47001
 Bagdad Roller Mills, Bagdad, Ky. 40003
 Baltz Bros. Packing Co., Nashville, Tn. 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, In. 47150
 Blue River Feed Mills, Inc., Edinburg, In. 46124
 Bobb Brothers, Leesburg, Oh. 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, Georgia 30305
 Bow Wow Co., Inc., Rolla, Mo. 65401
 Bremco Mills, New Bremen, Oh. 45869
 Brode' Corporation, Memphis, Tn. 38101
 Browder Milling Co., Inc., Fulton, Ky. 42041
 Brown-Forman Distillers Corp., Louisville, Ky. 40201
 Brown Molasses Co., Inc., Bremen, In. 46506
 Bryant & Crume Milling Co., Caneyville, Ky. 42721
 Buckeye Cellulose Corp., Cincinnati, Oh. 45201
 Buckeye Cellulose Corp., Memphis, Tn. 38108
 Buhler Mills, Inc., Buhler, Ks. 67522
 Burrows Feed Mill, Pendleton, Ky. 40055
 Bush Brothers & Co., Clinton, Tn. 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, Oh. 45204

- Cargill, Inc., 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, In.
46802
Central Soya of Clinton, Inc., Clinton,
Ky. 42031
Central Soya of Kentucky, Louisville, Ky.
40204
Champion Valley Farms, Inc., Camden, N.J.
08101
Chef Pet Foods, Inc., Delavan, Wi. 53115
City Roller Mills, Vevay, In. 47043
Clarkson Feed Store, Clarkson, Ky. 42726
Cleveland Milling Company, Cleveland, Tn.
37311
Climax Mills, Shelbyville, Ky. 40065
Clinton Corn Processing Co., Clinton, Ia.
62233
H. C. Cole Milling Co., Chester, Il. 62233
Colonial Stores, Inc., Atlanta, Ga. 30302
Columbian Hog & Cattle Powder, Kansas City,
Mo. 64129
Comet Rice Mills, Houston, Texas 77001
Community Milling Company, Irvington, Ky.
40146
Community Feed Mill, Belton, Ky. 42324
Consolidated Mills, Inc., Blissfield, Mi.
49228
Cosby-Hodges Milling Co., Birmingham, Al.
35201
Craft Feed & Grain, Catlettsburg, Ky. 41129
Crafter-Duncan, Inc., Henderson, Ky. 42420
Crescent Roller Mills, Inc., Taylorsville,
Ky. 40071
Crestwood Farmers Supply Center, Crestwood,
Ky. 40014
Cumberland Milling Co., Clarksville, Tn.
37040
Custom Feed Mills, Morganfield, Ky. 42437
Darling & Co., Chicago, Il. 60609
Darling & Co., Cincinnati, Oh, 45215
Darling & Co., Reading, Oh. 45215
Dawes Laboratories, Inc., Chicago, Il.
60632
Dearborn Mills, Aurora, In. 47001
Delta Oil Mill, Inc., Jonestown, Ms. 38639
Delta Rice, Inc., Hollandale, Ms. 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, Il. 62202
Dixie Portland Flour Mills, Arkansas City,
Ks. 67005
Dixie Portland Flour Mills, Chattanooga,
Tn. 37401
Dixie Portland Flour Mills, Memphis, Tn.
38101
Doane Products Co., Joplin, Mo. 64801
The Dow Chemical Co., Midland, Mi. 48640
Duncan-McFarland Farm Service, Lawrence-
burg, Ky. 40342
Dunnington Milling Co., Monticello, Ky.
42633
E. I. Dupont DeNemours & Co., Wilmington,
De. 19898
Emge Packing Co., Inc., Ft. Branch, In.
47533
F. L. Emmert Co., Inc. Cincinnati, Oh.
45214
John W. Eshelman & Sons, Lancaster, Pa.
17604
Evans Milling Co., Indianapolis, In. 46206
John Ewing Co., LaSalle, Co. 80645
Falstaff Brewing Corp., St. Louis, Mo.
63110
Famous Feed Mills, Nashville, Tn. 37201
Farm Bureau Milling Co., Hammond, In.
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, Oh.
43545
Farmers & Ginners Cotton Oil Co.,
Birmingham, Al. 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 & Produce 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 Brothers Feed Mill, Albany, Ky.
42402
Ferma-Gro Corp., Storm Lake, Ia. 50588
Ferneau Grain Co., Cincinnati, Oh. 45227
Field Packing Co., Inc., Owensboro, Ky.
42301
Finch Packing, N. Vincennes, In. 47591
Fischer Packing Co., Louisville, Ky. 40201
Fleischmann Distilling Corp., Owensboro,
Ky. 42301
Fleming Laboratories, Inc., Charlotte,
N. C. 28208

- Folsomdale Milling Co., Boaz, Ky. 42027
 Foremost Dairies, Inc., San Francisco, Ca. 94111
 Fort Negley Mills, Nashville, Tn. 37203
 40/to/One Inc., Chattanooga, Tn. 67404
 Foster Canning, Inc., Napoleon, Oh. 43545
 Francis Wholesale Co., Prestonburg, Ky. 41653
 R. T. French Manufacturers, Rochester, N. Y. 14609
 Froedtert Malt Corp., Milwaukee, Wl. 53215
 Frosty Morn Meats, Clarksville, Tn. 37041
 Henry Fruechtenicht Co., Inc., Louisville, Ky. 40202
 Fruen Milling Co., Minneapolis, Mn. 55403
 Fuhrer-Ford Mill Co., Inc., Mt. Vernon, In. 47620
 Gallatin Co. Farm Supply, Warsaw, Ky. 41095
 Gallia Roller Mills, Gallipolis, Oh. 45631
 Gamaliel Feed & Farm Supply, Gamaliel, Ky. 42140
 Garrard Mills, Lancaster, Ky. 40444
 J. I. Gates Milling Co., Columbus, Oh. 43222
 General Distributing Co., E. St. Louis, Il. 62201
 General Foods Corp. Corn Mill, Kankakee, Il. 60901
 General Foods Corp. Gaines Div., White Plains, N. Y. 10605
 General Mills, Inc., Minneapolis, Mn. 55440
 General Packing Co., Waynesville, Oh. 45068
 Germantown Milling Co., Germantown, Ky. 41044
 Gethsemani Farms, Trappist, Ky. 40073
 Gilster Milling Co., Chester, Il. 62233
 Glenmore Distilleries Co., Louisville, Ky. 40202
 Glenmore Distilleries Co., Owensboro, Ky. 42301
 Godbold, Inc., Lubbock, Tx. 79408
 Gold Seal Products Co., Birmingham, Al. 35203
 Goldenrod Oil Meal Sales Co., Memphis, Tn. 38101
 Gooch Feed Mill Co., Lincoln, Nb. 68501
 Good-Life Chemicals, Inc., Effingham, Il. 62401
 Gordy Salt Co., Inc., New Iberia, La. 70560
 W. R. Grace & Co., St. Louis, Mo. 63105
 W. R. Grace Agri. Products Div., Atlantic, Ia. 50022
 W. R. Grace & Co. Ag. Products Div., Memphis, Tn. 37202
 W. R. Grace & Co. Agri. Products Div., Nashville, Tn. 37202
 Grain Processing Corp., Muscatine, Ia. 52761
 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, In. 43625
 The Great Western Foods Co., Knoxville, Tn. 37901
 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
 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, Il. 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, Tn. 37203
 Harrodsburg Farm Service, Harrodsburg, Ky. 40330
 Hartz Mountain Products, N.Y., 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, In. 47371
 Haynie Products Inc., Baltimore, Md. 21230
 Heaven Hill Distilleries, Bardstown, Ky. 40004
 Dr. Heinz Co., Bloomingburg, Oh. 43106
 Dr. Heinz Co., Washington Court House, Oh. 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, Fl. 32804
 Hi-Life Packing Co., Chicago, Il. 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, Il.
61739
Hoosier Mineral Feed Co., Greenwood, In.
46142
Hopkinsville Milling Co., Hopkinsville,
Ky. 42240
Horlicks Corp., Racine, Wi. 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, Tn. 38102
Hunter Milling Co., Wellington, Ks. 67152
Hygrade Food Products Corp., Clyde, Oh.
43410
The Hyland Company, Ashland, Ky. 41101
Igleheart Bros. Evansville, In. 47707
Illinois Cereal Mills, Inc., Paris, Il.
61944
J. F. Imbs Milling Co., St. Louis, Mo.
63110
Indiana Farm Bureau Coop. Assn.,
Indianapolis, In. 46204
Industrial Molasses Corp., Leonia, N.J.
07605
International Mineral & Chemical Corp.,
Skokie, Il. 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, Il. 60010
I. S. Joseph Co., Inc., Minneapolis, Mn.
55415
K & K Manufacturing Inc., Rogers Mn.
55374
E. Kahn's Sons Co., Cincinnati, Oh. 45225
Kal Kan Foods, Inc., Los Angeles, Ca.
90058
Kaler Milling Co., Symsonia, Ky. 42082
Kane Molasses Laboratories, Mt. Pulaski,
Il. 62548
Keco Milling Co., McKenzie, Tn. 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,
Oh. 45232
Keynes Brothers, Logan, Oh. 43138
Kimbell-Diamond Milling Co., Ft. Worth,
Tx. 76101
Kingston Farmers Exchange, Inc., Kingston,
Oh. 45646
Klarer of Kentucky, Inc., Louisville, Ky.
40201
Knauf & Tesch Co., Chilton, Wi. 53014
H. C. Knoke & Co., Chicago, Il. 60650
Kraft Foods, Chicago, Il. 60612
Kroger Co., Cincinnati, Oh. 45202
Kuder Pulp Citrus Sales Co., Lake Alfred,
Fl. 33850
La Crosse Milling Co., Cochrane, Wi. 54622
Lake Co. Oil Mill, Tiptonville, Tn. 38079
Land O'Lakes Creameries, Inc., Minneapolis,
Mn. 55413
Edmond J. Lang, New Rochelle, N. Y. 10802
Lark, Boone, Iowa 50036
Lauhoff Grain Co., Danville, Il. 61832
Harry L. Laws & Co., Inc., New Orleans, La.
70130
Layne Calcium Corp., Hollandale, Fl. 33009
LeGear Laboratories, Inc., St. Louis, Mo.
63116
Lewisburg Roller Mills, Lewisburg, Ky. 42256
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, Fl.
32643
Louisa Supply Co., Inc., Louisa, Ky. 41230
Loves Feed & Hatchery, Bowling Green, Ky.
42101
Loves Pellets & Grain, Inc., Greensburg, In.
47240
Lubbock Cotton Oil Mill Co., Lubbock, Tx.
79408
Lynn Grove Milling Co., Lynn Grove, Ky. 42062
M.F.A. Grain Division, Mexico, Mo. 65265
Manard Molasses Company, New Orleans, La.
70130
Manko Co., Inc., Ocala, Fl. 32670
Marblehead Lime Co., Chicago, Il. 60606
Marion Feed Mills, Marion, Ky. 42064
Martin Sales Co., Toledo, Oh. 43606
Masonite Corp., Chicago, Il. 60606
Mavar Shrimp & Oyster Co., Biloxi, Ms.
39530
Mayes-Helm & Coyle, Perryville, Ky. 40468
Mayfield Milling Co., Inc., Mayfield, Ky.
42066
Mayfield Sweet Feed Mill, Mayfield, Ky.
42066
Mayflower Mills, Fort Wayne, In. 46801
McCauley Bros. Seed Co., Versailles, Ky.
40383
J. A. McDonald & Sons, Rogersville, Tn.
37857

- McGahan & Co., Paintsville, Ky. 42140
 McInnis Co., Pulaski, Tn. 38478
 McKnight-Keaton Grocery Co., Sikeston, Mo. 63801
 McRedmond Brothers, Nashville, Tn. 37210
 McWhorter Brothers, Albany, Ky. 42602
 Meadows Feed & Bldg. Supply, Clay City, Ky. 40312
 Medley Distilling Co., Owensboro, Ky. 42301
 Mennel Milling Co., Fostoria, Oh. 44830
 Metzger Brothers, Paducah, Ky. 42001
 Michigan Salt Co., St. Louis, Mi. 48880
 Micro-Lite, Inc., Emporia, Ks. 66801
 Mid-South Feeds, Inc., Nashville, Tn. 57209
 Mid-South Milling Co., Memphis, Tn. 38106
 Mid-State Molasses Co., Franklin, Tn. 37046
 Middlesboro Milling Co., Middlesboro, Ky. 40965
 Midget Mills, Somerset, Ky. 42501
 Midwest Feeds Co., Cincinnati, Oh. 45215
 S. E. Mighton Co., Bedford, Oh. 44014
 Milk Specialties, Inc., Dundee, Il. 60118
 Miller Milling Service, Bowling Green, Ky. 42101
 Mineral Products Co., Indianapolis, In. 46221
 Mississippi Chemical Corp., Yazoo City, Ms. 39194
 Mississippi Cottonseed Products Co., Grenada, Ms. 38901
 Mitsui & Co. (USA), Inc., San Francisco, Ca. 94104
 Model Mills, Georgetown, Ky. 40324
 Mohawk Milling Co., Newport, Tn. 38721
 August Moldenhauer Mill, Menfro, Mo. 63765
 Monarch Feed Mills, Inc., Dexter, Mo. 63841
 Monarch Milling Co., Mt. Sterling, Ky. 40353
 Monroe Brothers 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, Il. 62302
 Morgan Packing Co., Inc., Austin, In. 47102
 Morgantown Feed Mill, Morgantown, Ky. 42261
 Mor-Milk Co., Dixon, Il. 61021
 John Morrell & Co., Chicago, Il. 60604
 Morton Salt Co., Chicago, Il. 60606
 L. A. Mosher Co., Atlanta, Ga. 30301
 Mother's Cookie Co., Louisville, Ky. 40216
 Mowat, Wilson & Co., Detroit, Mi. 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, Oh. 45214
 Narengo, Inc., Springfield, Mo. 65805
 Nashville Oil Mill Co., Nashville, Tn. 37202
 National Alfalfa Dehydrating & Milling Co. Shawnee Mission, Ks. 66201
 National Alfalfa Dehydrating & Milling Co. Overland Park, Ks. 62202
 National Biscuit Co., New York, N.Y. 10022
 National Biscuit Co., Toledo, Oh. 43603
 National Distillers Products, Cinn., Oh. 45246
 National Molasses Co., Cincinnati, Oh. 45201
 National Molasses Co., Willow Grove, Pa. 19090
 National Oats Co. E. St. Louis, Il. 62205
 National Oats Co., Cedar Rapids, Ia. 52402
 National Packing Co., Greenville, Ms. 38701
 National Starch & Chemical Corp., Indianapolis, In. 46221
 Neumond, Inc., St. Louis, Mo. 63110
 The New Century Co., Chicago, Il. 60609
 New Era Milling Co., Arkansas City, Ks. 67005
 Nicholas Co. Feeders Supply, Carlisle, Ky. 40311
 Nipak, Inc., Dallas, Tx. 75221
 Northern Ohio Sugar Co., Denver, Co. 80217
 Northern Ohio Sugar Co., Findley, Oh. 45840
 Northern Ohio Sugar Co., Fremont, Oh. 43420
 Norwich Animal Industry Inc., New York, N.Y. 13815
 Charles Nunn & Sons Milling, Evansville, In. 47712
 Nutrena Mills, Inc., Minneapolis, Mn. 44402
 Occidental Chemical Co., Houston, Tx. 77001
 Odon Milling Co., Inc., Odon, In. 47562
 Ohio Blenders, Inc., Toledo, Oh. 43611
 Old Stanley Distillery, Inc., Stanley, Ky. 42375
 Agricutural Div. OLIN, Little Rock, Ar. 72203
 Orleans Canning Co., Chicago, Il. 60603
 Orleans Packing Co., Chicago, Il. 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, Ca. 94105
 Packmaster, Inc., Cincinnati, Oh. 45208
 Packers By-Products Co., St. Louis, Mo. 63177

- Pan American Mills, Bowling Green, Ky.
42101
- Pan Pacific Fisheries, Inc., Terminal
Island, Ca. 90731
- Phillip R. Park, Inc., San Pedro, Ca.
90731
- Paymaster Oil Mill Co., Phoenix, Az.
85002
- Pearl Packing Co., Inc., Madison, In.
47250
- Peavy Co. Flour Mills, Minneapolis, Mn.
55415
- Pedrick Laboratories, Sand Springs, Ok.
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, Il.
60610
- Peter Hand Foundation, Waukegan, Il.
60085
- Chas. Pfizer & Co., Inc., New York, N.Y.
10017
- Philips Roxane Div., Kansas City, Ks.
66106
- Phillips Petroleum Co., Bartlesville, Ok.
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
- Portland Feed Mill & Sup., Portland, Tn.
37148
- Price-Wilhoite Co., Frederick, Md. 21701
- Princeton Mills, Princeton, Ky. 42445
- Producers Farm Center, Clinton, Ky. 42031
- Proviso Feeds & Concentrates, Botkins,
Oh. 45306
- Pup Corn Brands, Inc., New Britain, Ct.
06053
- Quaker Oats Co., Chicago, Il. 60654
- Quaker Oats Co., Lawrenceburg, In. 47025
- Quaker Oats Co., Memphis, Tn. 38108
- Quincy Soybean Co., Quincy, Il. 62301
- Quinn Menhaden Fisheries, of La.,
Empire, La. 70050
- Ralston Purina Co., St. Louis, Mo. 63199
- Raymondville Cotton Oil Co., Raymondville,
Tx. 78580
- Red Star Yeast & Products Co., Milwaukee,
Wi. 53202
- Reelfoot Alfalfa Mill, Tiptonville, Tn.
38079
- Reelfoot Packing Co., Union City, Tn.
38261
- Reliance Chemicals Corp., Houston, Tx.
77024
- Rhodes Sweet Feed Mill, Mayfield, Ky.
42066
- Richland Mills, Pulaski, Tn. 38478
- Rico Liquids, Inc., Aliceville, Al.
35442
- Ringgold Milling Co., Clarksville, Tn.
37042
- Rival Pet Foods, Chicago, Il.
60632
- Riverside Oil Mill, Marks, Ms. 38646
- Riviana Foods, Inc., Abbyville, La.
70510
- Robbins Brothers, Auburn, Ky. 42206
- The Robertson Corp., Seymour, In. 47274
- Allen Robertson & Co., Louisville, Ky.
40202
- Robinson Grain Co., Hickman, Ky. 42050
- Robinson Milling Co., Somerset, Ky. 42501
- Roche Chemical Division, Nutley, N.J.
07110
- Rocky Hill Milling Co., Rocky Hill, Ky.
42163
- Rogers Feed Store, Corinth, Ky. 41010
- Rome Oil Mill Div., Rome, Ga. 30162
- G. P. Rose & Co., Inc., Nashville, Tn.
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, In.
47591
- Schenley Distillers, Inc., Frankfort, Ky.
40601
- Schenley Distillers, Inc., New York, N.Y.
10019
- John Schlemmer, Harrison, Oh. 45030
- Jos. Schlitz Brewing Co., Milwaukee, Wi.
53201
- J. F. Schneider & Son, Middlesboro, Ky.
40965
- Scioto Farm Bureau Co-op. Assn., Lucasville,
Oh. 45648
- Scott County Milling Co., Sikeston, Mo. 63801
- Sea-Born Mineral Div. Skod, Greenwich, Ct.
06831
- Seaboard Allied Milling Corp., Kansas City,
Mo. 64108
- Sea-Glo Products, Chetek, Wi. 54728
- Joseph E. Seagram & Sons, Inc., New York,
N. Y. 10022
- Security Mills, Inc., Knoxville, Tn. 37901
- Shafer Formula Co., Inc., Cleghorn, Ia. 51014
- Sherwin-Williams Co., Cleveland, Oh. 44101
- J. R. Short Milling Co., Mt. Vernon, In.
47620
- Siemer Milling Co., Teutopolis, Il. 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, Il. 60626
- Southern Canning Div. SMS Inc., Highlands,
Tx. 77562
- Southern Cotton Oil Co., Decatur, Al.
35601
- Southern Cotton Oil Co., Huntsville, Al.
35804
- Southern Cotton Oil Co. Montgomery, Al.
36101
- Southern Cotton Oil Co., New Orleans, La.
70124
- Southern Cotton Oil Co., Memphis, Tn.
38104
- Southern Cotton Oil Co., Greenville, Ms.
38701
- 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, Tn.
37160
- Sowell Brothers 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 & Company, Mt. Carmel, Il. 62863
- Square Deal Fortification Co., Kouts,
In. 46347
- A. E. Staley Manufacturing, Decatur,
Il. 62525
- Standard Brands, Inc., New York, N.Y.
10022
- Standard Brands, Inc., Chicago, Il.
60613
- Standard Products, Inc., Kilmarnock,
Va. 22482
- Stanford Creamery, Stanford, Ky. 40484
- Star-Kist Foods, Inc., Terminal Island,
Ca. 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, Wi. 54306
- Strongheart Packing Co., Chicago, Il.
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, Al.
35582
- Sunshine Molasses Co., Somerset, Ky.
42501
- Supreme Mills, Glasgow, Ky. 42141
- D. B. Sutherland & Sons, Gloomfield,
Ky. 40008
- Swift & Co., Pet Food, Chicago, Il.
60604
- Swift & Co., Animal Protein Plant,
Evansville, In. 47710
- Swift & Co., Oil Mill, Memphis, Tn. 38114
- T & H Feed Service, Lebanon, Ky. 40033
- Tabor Feed Mill, Columbia, Ky. 42728
- Taylor County Feed Co., Campbellsville,
Ky. 42718
- T. C. Products, Madison, Wi. 53701
- Teater & Cassity, Nicholasville, Ky.
40356
- Tennessee Farmers Cooperative, LaVergne,
Tn. 37086
- Tennessee Valley Cotton Oil Mill, Decatur,
Al. 35601
- Thompson & Nash, Inc., Shelbyville, Ky.
40065
- Thorobred Co., Inc., Waynesville, Oh.
45068
- Thrifty Supplements, Rockford, Oh. 45882
- Thurmonds Coal & Feed Co., Murray, Ky.
42071
- Topeka Molasses Co., Ligonier, In. 46767
- Mr. Toymaker Enterprises, Atlanta, Ga.
30318
- Tree City Specialties, Greensburg, In.
47240
- Trenton Oil Mill Co., Trenton, Tn. 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, Ms. 38801
- Ultra-Life Laboratories, E. St. Louis,
Il. 62201
- Union County Grain Co., Sturgis, Ky. 42459

Union Div. Miles Laboratories, Inc.,
Granite City, Il. 62040
United States Sugar Corp., Clewiston, Fl.
33440
Usen Products Co., Woburn, Ma. 01801
Van Camp Sea Food, Long Beach, Ca. 90812
Vets Div. of Perk Foods Co., Chicago, Il.
60610
Vistron Corp., Lima, Oh. 45802
Vit-A-Way, Inc., Ft. Worth, Tx. 76106
Vita Plus Corporation, Madison, Wi. 53701
Vitamineral Products Co., Peoria, Il.
61603
V.M.S., Inc., Montgomery, Al. 36101
Vylactos Laboratories, Syracuse, In. 46567
Vylactos Laboratories, Des Moines, Ia.
50313
Wagner-Indoe, Inc., North Lawrence, Oh.
44666
Warners Farm Supply, Somerset, Ky. 42501
Watkins Products Co., Inc., Winona, Mn.
55987
Watkins Products Co., Inc., Memphis, Tn.
38102
Weisenberger Mills, Midway, Ky. 40347
Ralph Wells & Co., Monmouth, Il. 61462
West Tennessee Soya Mill, Inc., Tiptonville,
Tn. 38257
Western Alfalfa Corp., Kansas City, Mo.
64141
Western Grain Co., Birmingham, Al.
35201
Martha White, Inc., Nashville, Tn.
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
Whiz Pet Food Co., Seattle, Wa. 98114
George Wiedemann Brewing Co., Newport, Ky.
41071
R. L. Wiles Feed Mills, Inc., Nashville,
Tn. 37210
Williamstown Roller Mill, Williamstown,
Ky. 41097
Wilson and Company, Inc., Chicago, Il.
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, Ms.
38930
Yopp Seed Co., Paducah, Ky. 42001
Yukon Mill & Grain Co., Yukon, Ok. 73099
Y-V Minerals, Inc., Greenwood, In. 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
<u>ROUGHAGES</u>					
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
<u>FILLERS</u>					
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 1947-69

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, 1969

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
Adams Packing Assn., Inc., Auburndale, Fl. 33823	1	1	
Ade Chemical Co., Inc., Tiskilwa, Il. 61368	3	3	
Agricultural Supply Co., Owensboro, Ky. 42301	1	1	
Albany Mills, Albany, Ky. 42602	7	7	
Allen Canning Co., Siloam Springs, Ar. 72761	1	1	
Allen Products Co., Inc., Allentown, Pa. 18104	2	1	1
Allen Products Co. of Nebraska, Nb. 68333	3	1	2
Allied Chemical Corp, Omaha, Nb. 68124	3	2	1
Allied Foods, Inc., Atlanta, Ga. 30318	15	14	1
Allied Mills, Inc., Libertyville, Il. 60048	180	164	16
Allison Mills, Inc., Little Rock, Ar. 72204	2	1	1
Anderson Co. Farm Service, Lawrenceburg, Ky. 40342	4	4	
Anderson & Spilman, Danville, Ky. 40422	18	16	2
Anglo Sweet Feed Mill Inc., Owensboro, Ky. 42301	22	19	3
Armour Grocery Prod. Co., Chicago, Il. 60606	3	3	
Ashland Milling Co., Inc., Ashland, Ky. 41101	26	20	6
Astor Products, Inc., Jacksonville, Fl. 32203	2	2	
Aubrey Feed Mills, Inc., Louisville, Ky. 40204	186	179	7
Auburn Mills, Inc., Auburn, Ky. 42206	5	5	
Aylor & Meyer Co., Aurora, In. 47001	3	3	
Bagdad Roller Mills, Bagdad, Ky. 40003	34	27	7
Barton Distilling Co., Bardstown, Ky. 40004	9	9	
Baughman Milling Co., Stanford, Ky. 40484	3	3	
Bi-County Farm Bureau Coop., Florence, Ky. 41042	6	6	
Big Star Products Co., Atlanta, Ga. 30302	1	1	
Bisset Farm Supply, Harrodsburg, Ky. 40330	5	4	1
Blue Barn Dog Food Co., New Albany, In. 47150	10	10	
Boone Co. Farm Supply, Walton, Ky. 41094	2	2	
Boones Feed Store, Stanford, Ky. 40484	3	3	
Bow Wow Co., Inc., Rollo, Mo. 65601	1	1	
Browder Milling Co., Inc., Fulton, Ky. 42041	6	6	
Brown Molasses Co., Bremen, In. 46506	3	2	1
Bryant & Crume Milling Co., Caneyville, Ky. 42721	17	16	1
Buckeye Cellulose Corp., Cincinnati, Oh. 45201	3	3	
Burrows Feed Mill, Pendleton, Ky. 40055	3	3	
Bush Brothers & Co., Clinton, Tn. 37716	6	6	
A. C. Butts & Sons, Fulton, Ky. 42041	2	2	
Cadiz Milling Co., Cadiz, Ky. 42211	5	5	
Campbellville Milling Co., Campbellsville, Ky. 42718	4	4	
Caneyville Roller Mill Co., Caneyville, Ky. 42721	12	9	3
Cardinal Food Products, Inc., St. Louis, Mo. 63103	3	3	
Cargill, Inc., Cincinnati, Oh. 45204	1		1
Cargill, Inc., Minneapolis, Mn. 55402	5	4	1
Carroll Co. Farm Bureau Coop., Carrollton, Ky. 41008	6	6	
Carnation Co., Los Angeles, Ca. 90036	5	4	1
Catz American Co., Inc., New York, N. Y. 10014	1	1	
Central Soya Co., Inc., Ft. Wayne, In. 46802	180	167	13
Central Soya of Clinton, Inc., Clinton, Ky. 42031	2	2	
Central Soya Inc. of Ky., Louisville, Ky. 40204	4		4
H. C. Cole Milling Co., Chester, Il. 62233	4	1	3
Community Milling Co., Irvington, Ky. 40146	4	4	
Community Feed Mill, Belton, Ky. 42324	9	7	2
Consolidated Mills, Inc., Blissfield, Mi. 49228	2	2	
Cooperative Mills, Inc., Cincinnati, Oh. 45215	4	4	
Crescent Roller Mills, Taylorsville, Ky. 40071	12	9	3
Custom Feed Mill, Morganfield, Ky. 42437	19	17	2
Dearborn Mills, Aurora, In. 47001	10	10	
Delta Oil Mill, Inc., Jonestown, Ms. 38639	1	1	
Dixie Mills Co., E. St. Louis, Il. 62202	5	4	1
Dixie Portland Flour Mills, Memphis, Tenn. 38101	2	1	1
Doane Feed Prod. Co., Joplin, Mo. 64801	1	1	
Duncan-McFarland Farm Service, Lawrenceburg, Ky. 40342	1	1	

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1969

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
Emge Packing Co., Inc., Ft. Branch, In. 47533	1	1	
F. L. Emmert Co., Inc., Cincinnati, Oh. 45214	2	2	
John W. Eshelman & Sons, Circleville, Oh. 43113	1	1	
John W. Eshelman & Sons, Lancaster, Pa. 17604	25	24	1
Evans Milling Co., Indianapolis, In. 46206	1	1	
Famous Feed Mills, Nashville, Tn. 37201	1	1	
Farm Bureau Milling Co., Hammond, In. 46320	1	1	
Farm Service Center, Beaver Dam, Ky. 42320	4	4	
Farm Services, Inc., Glasgow, Ky. 42141	2	2	
Farmers Feed Store, Central City, Ky. 42330	2	2	
Farmers Feed & Supply, Brodhead, Ky. 40409	1	1	
Farmers Friend Mineral Co., Napoleon, Oh. 43545	1		1
Farmers & Ginners Cotton Oil Mill, Birmingham, Al. 35201	1	1	
Farmers Milling Co., Somerset, Ky. 42501	5	3	2
Farmers Supply, Beaver Dam, Ky. 42320	2	2	
Farmers Supply Co., Springfield, Ky. 40069	3	2	1
Farmers Supply & Produce Co., Monticello, Ky. 42633	2	2	
Farmers Tankage Co., Henderson, Ky. 42420	1	1	
J. H. Fedders Co., Inc., Covington, Ky. 41014	1	1	
Fedders Feed Service, Owenton, Ky. 40359	1	1	
Field Packing Co., Owensboro, Ky. 42301	3	3	
Fischer Packing Co., Louisville, Ky. 40201	8	8	
Folsomdale Milling Co., Boaz, Ky. 42027	2	2	
Fort Negley Mills, Nashville, Tn. 37203	1	1	
Foster Canning, Inc., Napoleon, Oh. 43545	2	2	
R. T. French Manufacturers, Rochester, N. Y. 14609	2	2	
Frosty Morn Meats, Clarksville, Tn. 37041	1		1
Henry Fruechtenicht, Inc., Louisville, Ky. 40202	175	167	8
Fruen Milling Co., Minneapolis, Mn. 55403	2	2	
Gallatin Co. Farm Supply, Warsaw, Ky. 41095	5	3	2
Garden Street Mill & Elevator, Louisville, Ky. 40203	1	1	
General Foods Corp., Gaines, White Plains, N.Y. 10602	2	2	
General Mills, Inc., Minneapolis, Mn. 55440	2	2	
General Packing Co., Waynesville, Oh. 45068	3	2	1
Gold Seal Products Co., Birmingham, Al. 35203	2	2	
Goldenrod Oil Meal Sales Co., Memphis, Tn. 38101	5	5	
Grant County Farm Supply, Dry Ridge, Ky. 41035	1	1	
The Great A & P Tea Co., Inc., Brockport, N. Y. 14420	8	8	
The Great Western Foods Co., Knoxville, Tn. 37901	2	2	
Green County Milling Co., Greensburg, Ky. 42743	5	5	
Griffin Packing Co., Danville, Ky. 40422	2	1	1
Guthrie Farm Service, Harrodsburg, Ky. 40330	4	4	
Earl Hale & Son, Jasper, Oh. 45642	7	6	1
Hardin Feed Mill, Hardin, Ky. 42048	2	2	
Hardy Salt Co., St. Louis, Mo. 63166	3	2	1
Harrodsburg Farm Services, Harrodsburg, Ky. 40330	1	1	
Hartz Mountain Products, New York, N. Y. 10003	1	1	
Harvest Brand, Inc., Pittsburg, Ks. 66762	14	13	1
T. J. Haycraft Sales & Service, Leitchfield, Ky. 42754	1	1	
Haydon Mill & Grain Co., Springfield, Ky. 40069	5	5	
Heaven Hill Distilleries, Bardstown, Ky. 40004	5	5	
Dr. Heinz Co., Bloomingburg, Oh. 43106	6	6	
Henderson Feed & Commission, Henderson, Ky. 42420	3	2	1
Burch Hester Feed Store, Hustonville, Ky. 40437	8	8	
Hi-Life Packing Co., Chicago, Il. 60603	1	1	
Hills Div. Riviana Foods, Inc., Topeka, Ks. 66601	4	4	
Frank Hinton & Son, Plummers Landing, Ky. 41089	1	1	
Hobbs Feed & Supply, Fancy Farm, Ky. 42039	1	1	
Home Milling Co., Inc., Greenville, Ky. 42345	2	2	
Honeggers & Co, Fairbury, Il. 61739	9	9	

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED , 1969

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
Hopkinsville Milling Co., Hopkinsville, Ky. 42240	2	2	
Hudsons Farm Service, Franklin, Ky. 42134	1	1	
Igleheart Brothers, Post Div., Evansville, In. 47707	6	6	
Indiana Farm Bureau Coop.Assn., Indianapolis, Indiana 46204	2	2	
International Milling Co., Minneapolis, Mn. 55415	42	39	3
E. Kahns Sons Co., Cincinnati, Oh. 45225	4	4	
Kal Kan Foods, Inc., Los Angeles, Ca. 90058	3	2	1
Kaler Milling Co., Symsonia, Ky. 42082	1	1	
Keco Milling Co., McKenzie, Tn. 38201	8	8	
Ky. Animal By-Products, Russellville, Ky. 42276	1		1
Ky. By-Products Corp., Louisville, Ky. 40211	17	6	11
Keynes Brothers, Logan, Oh. 43138	2	2	
Kimbell-Diamond Milling Co., Fort Worth, Tx. 76101	2	1	1
Klarer of Ky., Inc., Louisville, Ky. 40201	2	2	
Kraft Foods Co., Chicago, Il. 60612	3	3	
LeGear Laboratories, Inc., St. Louis, Mo. 63116	1	1	
Lewisburg Roller Mills, Lewisburg, Ky. 42256	1	1	
Lilly Bros. Seed Co., Hopkinsville, Ky. 42240	2	2	
Livestock Industries, Inc., Park City, Ky. 42160	49	37	12
Lowes Feed & Hatchery, Bowling Green, Ky. 42101	15	10	5
Lynn Grove Milling Co., Lynn Grove, Ky. 62062	1	1	
Magic Feed Mill, Paoli, In. 47454	3	3	
Marion Feed Mills, Marion, Ky. 42064	1	1	
Mavar Shrimp & Oyster Co., Biloxi, Ms. 39530	6	6	
Mayfield Milling Co., Mayfield, Ky. 42066	7	5	2
Mayfield Sweet Feed Mill, Mayfield, Ky. 42066	9	7	2
McCauley Bros. Seed Co, Inc., Versailles, Ky.40383	18	15	3
J. A. McDonald & Sons, Rogersville, Tn. 37857	1	1	
McGahan & Co., Paintsville, Ky. 41240	6	6	
McInnis Company, Pulaski, Tn. 38478	1		1
McRedmond Bros., Nashville, Tn. 37201	1	1	
Michigan Salt Co., St. Louis, Mi. 48880	1	1	
Mid-South Feeds, Inc., Nashville, Tn. 37209	13	11	2
Middlesboro Milling Co., Middlesboro, Ky. 40965	3	3	
Midget Mills, Somerset, Ky. 42501	1	1	
Miller Milling Service, Bowling Green, Ky. 42101	2	1	1
Mohawk Milling Co., Newport, Tn. 37821	7	6	1
Monarch Milling Co., Mt. Sterling, Ky. 40353	1	1	
Moorman Manufacturing Co., Quincy, Il. 62301	27	27	
Morgan Packing Co., Inc., Austin, In. 47102	2	2	
John Morrell & Co., Chicago, Il. 60604	1	1	
Morton Salt Co., Chicago, Il. 60606	2	2	
Mowat, Wilson & Co., Detroit, Mi. 48235	1	1	
Mullican Feed Mill, Stanley, Ky. 42375	2	2	
Murphy Grain & Milling Co., Owensboro, Ky. 42301	1	1	
Henry Nagel & Son, Cincinnati, Oh. 45214	1	1	
Nashville Cotton Oil Mill Co., Nashville, Tn.37202	3	2	1
National Biscuit Co., Toledo, Oh. 43603	1	1	
National Molasses Co., Orelan, Pa. 19090	8	6	2
National Oats Co., E. St. Louis, Il. 62205	15	14	1
National Packing Co., Greenville, Ms. 38701	1	1	
New Century Co., Chicago, Il. 60609	1	1	
Nicholas County Feeders Supply, Carlisle, Ky.40311	2	1	1
Charles Nunn & Sons Milling, Evansville, In. 47712	11	11	
Nutrena Mills, Inc., Minneapolis, Mn. 55402	28	26	2
Ohio Blenders, Inc., Toledo, Oh. 43611	1	1	
Odon Milling Co., Odon, In. 47562	1		1
Orleans Canning Co., Chicago, Il. 60603	6		6
Owensboro Grain Co., Inc., Owensboro, Ky. 42301	21	21	
Owensboro Milling Co., Owensboro, Ky. 42301	33	31	2
Pan American Mills, Bowling Green, Ky. 42101	37	28	9
Pan Pacific Fisheries, Inc., Terminal Island, Ca. 90731	2	2	

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED, 1969

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
Pierce & Williams, Hopkinsville, Ky. 42240	2	2	
Pioneer Farm Service, Owensboro, Ky. 42301	2	2	
Pittsburgh Plate Glass Co., Red Wing, Mn. 55066	1	1	
Planters Manufacturing Co., Clarksdale, Ms. 38614	3	3	
Planters Oil Mill, Tunica, Ms. 38676	1	1	
Princeton Mills, Princeton, Ky. 42445	7	7	
Producers Farm Center, Clinton, Ky. 42031	4	4	
Quaker Oats Co., Chicago, Il. 60654	12	12	
Quaker Oats Co., Shirmantown, Pa. 17091	3	2	1
Quaker Oats Co., Memphis, Tn. 38108	8	8	
C. B. Ragland Co., Nashville, Tn. 37202	2	2	
Ralston Purina Co., St. Louis, Mo. 63199	562	509	53
Richland Mills, Pulaski, Tn. 38478	1	1	
Ringgold Milling Co., Clarksville, Tn. 37042	3	3	
Rival Pet Foods, Chicago, Il. 60632	4	4	
Riverside Oil Mill, Marks, Ms. 38646	2	2	
Riviana Foods, Inc. Abbyville, La. 70510	1	1	
Robbins Bros., Auburn Roller Mills, Auburn, Ky. 42206	3	3	
Robertson Corp., Seymour, In. 47274	6	6	
Allen Robertson & Co., Louisville, Ky. 40202	8	8	
Robinson Grain Co., Hickman, Ky. 42050	1	1	
Robinson Milling Co., Somerset, Ky. 42501	15	15	
Rogers Feed Store, Corinth, Ky. 41010	5	5	
G. P. Rose & Co., Nashville, Tn. 37211	4	4	
Russell Springs Milling Co., Russell Springs, Ky. 42642	2	2	
Sandusky Mill, Harrodsburg, Ky. 40330	2	2	
Charles H. Schenck & Sons, Vincennes, In. 47591	2	2	
John Schlemmer, Harrison, Oh. 45030	2	2	
Scott County Milling Co., Sikeston, Mo. 63801	14	13	1
Security Mills, Knoxville, Tn. 37901	5	5	
Sikeston Cotton Oil Mill, Sikeston, Mo. 63801	1	1	
Smithfield Milling Co., Smithfield, Ky. 40068	4	4	
Smith Sweet Feed Mills, Inc., Bowling Green, Ky. 42101	2	2	
Southern Cotton Oil Co., Inc., New Orleans, La. 70112	1	1	
Southern Cotton Oil Co., Inc., Memphis, Tn. 38104	4	4	
So. States Hardin Coop., Elizabethtown, Ky. 42701	7	7	
So. States Hopkinsville Coop., Hopkinsville, Ky. 42240	1	1	
So. States LaGrange Coop., LaGrange, Ky. 40031	2	2	
So. States Lebanon Coop., Lebanon, Ky. 40033	1	1	
So. States Leitchfield Coop., Leitchfield, Ky. 42754	1	1	
So. States Morganfield Coop., Morganfield, Ky. 42437	1	1	
So. States Coop., Baltimore, Md. 21203	366	338	28
So. States Coop., Richmond, Va. 23213	3	2	1
Woodford Spears & Sons, Paris, Ky. 40361	9	9	
Spencer Farm Service, Taylorsville, Ky. 40071	5	5	
Spencer Kellogg-Buffalo, N. Y. 14240	1	1	
A. E. Staley Mfg., Decatur, Il. 62525	14	14	
Star Kist Foods, Inc., Terminal Island, Ca. 90730	3	2	1
Stewarts Feed Mill, Flat Lick, Ky. 40935	1		1
Strongheart Packing Co., Chicago, Il. 60604	4	4	
Sturgis Milling Co., Sturgis, Ky. 42459	12	10	2
Sunshine Feed Mills, Inc., Red Bay, Al. 35582	5	5	
Sunshine Molasses Co., Somerset, Ky. 42501	11	8	3
Supersweet Feeds Div. International Milling Co., Kansas City, Mo. 64116	1	1	
Supreme Mills, Glasgow, Ky. 42141	45	39	6
D. B. Sutherland & Sons, Bloomfield, Ky. 40008	15	14	1

TABLE 1 REPORT OF OFFICIAL FEED SAMPLES ANALYZED , 1969

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
Swift & Co., Pet Food, Chicago, Il 60604	2	2	
Swift & Co., Animal Protein Plant, Evansville, Indiana 47710	1	1	
Swift and Co., Oil Mill, Memphis, Tn. 38114	1	1	
T & H Feed Service, Lebanon, Ky. 40033	4	3	1
Tabor Enterprises, Columbia, Ky. 42728	7	7	
Taylor County Feed Company, Campbellsville, Ky. 42718	7	7	
Teater & Cassity, Nicholasville, Ky. 40356	2	2	
Thorbred Company, Inc., Waynesville, Oh. 45068	4	1	3
Topeka Molasses Co., Lignier, In. 46767	1	1	
Tri-County Farm Supply, Corbin, Ky. 40701	5	5	
Usen Products Co., Woburn, Ma. 01801	4	4	
Vets Div. Of Perk Foods Co., Chicago, Il. 60610	6	6	
Vylactos Laboratories, Inc., Syracuse, In. 46567	4	1	3
Vylactos Laboratories, Inc., Des Moines, Ia. 50313	4	3	1
George Wiedemann Brewing Co., Newport, Ky. 41071	3	1	2
Weisenberger Mills, Midway, Ky. 40347	9	9	
West Tennessee Soya Mill, Tiptonville, Tn. 38257	13	13	
Western Grain Co., Birmingham, Al. 35201	4	4	
Martha White Foods, Nashville, Tn. 37202	6	5	1
Whiz Pet Foods Co., Seattle, Wa. 98119	2	1	1
R. L. Wiles Feed Mills, Inc., Nashville, Tn. 37210	6	3	3
Williamstown Roller Mills, Williamstown, Ky. 41097	8	8	
Wilson & Co., Inc., Chicago, Il. 60601	2	2	
Winn Milling Co., Greensburg, Ky. 42143	4	4	
	3043	2752	291
		90.5%	9.5%

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
Copper, Iron, Zinc:	± 40%
Oxytetracycline, Penicillin, Chlortetracycline:	± 50%
Phenothiazine, Sulfamethazine, Furazolidone, Arsanilic Acid, 3-Nitro-4-hydroxyphenyl arsonic Acid, 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
Allen Products of Nebraska, Inc., Crete, Nb. 68333 Alpo Chicken and Chicken Parts for Dogs	Crude Fat 8.0%	16.0%
Allied Chemical Corp., Omaha, Nb. 68124 Compensator-50 (Liquid)	Crude Protein 50.0%	44.0%
Allied Foods, Inc., Atlanta, Ga. 30318 Switch Cat Food	Crude Protein 12.0%	9.9%
Allied Mills, Inc., Libertyville, Il. 60048 Wayne Inter Phase Layer Concentrate Wayne P-18 Layer Wayne Egg Producer Wayne Farrowing Blox, Medicated	Crude Protein 31.0% Calcium, Max. 4.0% Crude Protein 20.0% Chlortetracycline 100 gm/T Penicillin 50 gm/T Penicillin 50 gm/T	36.8% 6.2% 29.3% 47.7 gm/T 24.4 gm/T 24.4 gm/T
Ful-O-Pep Pig Creep Feed, Medicated Ful-O-Pep Gro Pork 45 Supplement Medicated Ful-O-Pep Gro Pork 45 Supplement Medicated Ful-O-Pep Gro Pork 45 Supplement Medicated Wayne Dairy Supplement Wayne 16% Sugarine Dairy Wayne Pig Balancer Medicated	Crude Protein 45.0% Arsanilic Acid 0.05% Chlortetracycline 80 gm/T Crude Protein 42.0% Crude Protein 16.0% Crude Protein 40.0% Arsanilic Acid 0.045% Penicillin 50.0 gm/T	50.9% 0.009% 31.8 gm/T 38.8% 23.2% 37.5% 0.0063% 24.9 gm/T
Wayne Tail Curler Rockets Medicated M-65 Topper Cattle Supplement Medicated Wayne Brood Sow Supplement Wayne Tail Curler Rockets Medicated Wayne Calfnip Medicated Wayne Tail Curler Pig Starter Medicated	Crude Protein 32.0% Crude Protein 36.0% Sulfamethazine 0.011% Crude Fat 10.0% Chlortetracycline 100 gm/T Sulfamethazine 0.011%	27.7% 30.0% 0.065% 6.1% 193.0 gm/T 0.0209%
Allison Mills, Inc., Little Rock, Ar. 72204 Vita King Fly Control Block Medicated	Crude Protein 5.0%	10.7%
Anderson & Spilman, Danville, Ky. 40422 65% Range Cattle Supplement A & S 45% Hog Concentrate Medicated	Crude Protein 65.0% Penicillin 90 gm/T	62.3% 41.8 gm/T
Anglo Sweet Feed Mill, Owensboro, Ky. 42301 Ace Perfection Brand 18% Pig & Hog Medicated Ace Perfection Brand 18% Pig Starter Ace Perfection Brand 16% Dairy Feed	Crude Protein 18.0% Penicillin 50 gm/T Crude Protein 16.0%	14.6% 22.4 gm/T 21.4%
Ashland Milling Company, Inc., Ashland, Ky. 41101 24% Mi Choice Dairy Feed E & E Special 24% Dairy Feed Ideal Special 24% Dairy Feed 24% Mi Choice Dairy Feed E & E Special 24% Dairy Feed Ideal Special 24% Dairy Feed	N.P.N. 8.0% N.P.N. 8.0% N.P.N. 8.0% N.P.N. 8.0% Crude Protein 24.0% Crude Protein 24.0% N.P.N. 8.0%	12.2% 10.9% 12.2% 10.3% 20.1% 34.1% 17.7%
Aubrey Feed Mills, Inc., Louisville, Ky. 40204 44% Protein Solvent Extracted Soybean Meal Red A 38% Protein Block	Crude Protein 44.0% Calcium, Max. 3.0% Iron 0.35% Magnesium 0.40%	49.7% 5.0% 0.49% 0.70%
Red A 26% Game Bird Starter R-Mycin Crumbles Medicated Red A Mix Mo-Las	Crude Protein 26.0% Crude Protein 16.0% Crude Fiber 8.0% Sugar, Invert 42.0% Furazolidone 0.022% Sulfamethazine 0.0177%	20.2% 21.7% 11.8% 27.2% 0.0 0.0089%
Red A Commercial Layer M Red A Pig Starter Pellets Medicated		
Bagdad Roller Mills, Bagdad, Ky. 40003 Rocket Age Shoat Grower Medicated Rocket Age Hog Finisher Medicated Rocket Age 20% Starter & Grower Medicated Rocket Age Hog Finisher Medicated Rocket Age Lay Ration Medicated	Arsanilic Acid 0.01% Penicillin 2.5 gm/T Nitrofurazone 0.0056% Penicillin 2.5 gm/T Penicillin 6.0 gm/T	0.0054% 0.5 gm/T 0.0099% 0.6 gm/T 0.6 gm/T

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Rocket Age 16% Shoat Grower Medicated Rocket Age Hog Developer	Arsanilic Acid 0.01% Arsanilic Acid 0.01%	0.0175% 0.0199%
Bisset Farm Supply, Harrodsburg, Ky. 40330 Bisset Hog Mix	Crude Protein 14.0%	11.5%
Brown Molasses Company, Bremen, Ind. 46506 My-T-Sweet 87% Cane Molasses	Crude Protein 3.0%	9.4%
Bryant & Crume Milling Company, Caneyville, Ky. 42721 Gold Medal Farrowing Chow Medicated	Crude Fiber 7.1%	10.0%
Caneyville Roller Mill Co., Caneyville, Ky. 42721 Ky. Farm 18% Hog Fattening Feed Medicated Ky. Farm 40% Hog Supplement Medicated Ky. Farm 40% Hog Supplement Medicated	Arsanilic Acid 0.01% Crude Fiber 2.5% Crude Fiber 2.5%	0.0142% 7.3% 6.2%
Cargill, Inc., Cincinnati, Oh. 45204 Cane Molasses	Sugar, Invert 48.0%	42.5%
Cargill, Inc., Minneapolis, Mn. 55402 Nutrena Pre Shoat 16 (S) Medicated	Chlortetracycline 20 gm/T	9.8 gm/T
Carnation Company, Los Angeles, California 90036 Friskies Buffet Kidney & Chicken Parts	Crude Fat 5.0%	10.6%
Central Soya Company, Inc., Ft. Wayne, Ind. 46802 Master Mix 38% Milk Master Master Mix Cattle Blend Concentrate Master Mix Gro Getter Concentrate Master Mix 42% Pig Master Conc. Med. 862-99P Master Mix Master Blend Concentrate 667 Master Mix Turkey Finisher Conc. Med. 473-06U Master Mix Taste-Ets Pre-Starter Master Mix 42 Pig Master Concentrate Med. Master Mix 14% Pig Master 817-99Q Med. Master Mix Egg Concentrate 263 Master Mix Bio Starter-1 Master Mix 35% Hog Concentrate Gilt Edge 37% Supplement Block	Crude Protein 38.0% Salt, Max. 4.0% Salt, Max. 4.5% Salt, Max. 4.0% Crude Protein 38.0% Crude Protein 46.0% Crude Fiber 3.5% Penicillin 50 gm/T Arsanilic Acid 0.065% Arsanilic Acid 0.01% Crude Fat 6.0% Crude Protein 11.0% Crude Protein 35.0% Crude Protein 37.0%	34.4% 7.7% 7.8% 0.0 35.7% 41.7% 5.8% 21.8 gm/T 0.004% 0.0023% 3.4% 22.5% 32.0% 30.1%
Central Soya, Inc. of Ky., Louisville, Ky. 40204 Gilt Edge Anti-Fly Block Gilt Edge Anti-Fly Block Gilt Edge Anti-Fly Block Gilt Edge 37% Range Block	Iron 0.121% Crude Protein 16.0% Crude Protein 16.0% Manganese 0.15% Magnesium 2.25%	0.350% 13.1% 13.0% 0.037% 4.1%
H. C. Cole Milling Co., Chester, Il. 62233 Omega Winter Wheat Bran Omega Winter Wheat Bran Omega Winter Wheat Bran	Crude Fiber 10.5% Crude Fiber 7.0% Crude Fiber 7.0%	12.6% 12.2% 9.5%
Community Feed Mill, Belton, Ky. 42324 Johnsons 16% Dairy Feed Brigance Pig Feed Medicated	Crude Protein 16.0% Arsanilic Acid 0.01%	13.9% 0.002%
Crescent Roller Mills, Taylorsville, Ky. 40071 Crescent Dairy Feed Crescent Dairy Feed Crescent Dairy Feed	Crude Protein 16.0% Crude Protein 16.0% Crude Protein 16.0%	13.5% 12.7% 13.0%
Custom Feed Mills, Morganfield, Ky. 42437 Custom Made Dog Food Custom Made 42% Hog Finishing	Crude Protein 25.0% Crude Protein 42.0%	21.2% 35.8%
Dixie Mills Company, E. St. Louis, Il. 62202 Dixie Pig Grower Conc. Medicated	Arsanilic Acid 0.05%	0.024%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Dixie Portland Flour Mills, Memphis, Tenn. 38101 Rip Dog Food	Crude Protein 25.0%	22.6%
John W. Eshelman & Sons, Lancaster, Pa. 17664 Red Rose Dog Food	Crude Protein 23.0%	28.3%
Farmers Milling Company, Somerset, Ky. 42501 Brown Wheat Shorts 16% Mixed Feed	Crude Protein 15.0% Crude Protein 16.0%	12.8% 12.5%
Farmers Friend Mineral Company, Napoleon, Oh. 43545 Stop Block Grass Tetany Medicated	Magnesium 14.5%	22.0%
Farmers Supply Co., Springfield, Ky. 40069 14% Dairy Feed	Crude Protein 14.0%	10.2%
Frosty Morn Meats, Clarksville, Tenn. 37041 Frosty Morn 50% Meat & Bone Meal	Crude Fat 8.0%	13.8%
Henry Fruechtenicht Co., Inc., Louisville, Ky. 40202 Producer Starter & Grower Producer Cattle Block Producer Hog Balancer Medicated Producer 16% Special Dairy Feed Producer 16% Special Dairy Feed Producer 16% Special Dairy Feed Producer 16% Special Dairy Feed Producer Beef Balancer	Zoalene 0.0125% Crude Protein 42.0% Penicillin 15.0 gm/T Crude Protein 16.0% N.P.N. 5.0% Crude Protein 16.0% Crude Protein 16.0% Crude Protein 16.0% Crude Protein 42.0%	0.0204% 39.3% 3.7 gm/T 24.1% 8.6% 22.8% 21.4% 21.5% 39.6%
Gallatin County Farm Supply, Warsaw, Ky. 41095 16% Special Dairy Halls 16 Special Dairy	Crude Protein 16.0% N.P.N. 0.5%	13.6% 2.9%
General Packing Company, Waynesville, Oh. 45068 Down Boy Dog Food	Crude Fat 2.0%	8.4%
Griffin Packing Company, Danville, Ky. 40422 Pride of Boyle Meat Meal Tankage	Crude Protein 40.0%	55.7%
Earl Hale & Son, Jasper, Ohio 45642 Little Kims Sweet 24% Dairy	Crude Protein 24.0%	19.9%
Hardy Salt Company, St. Louis, Mo. 63166 Hardy Fly-N-Worm	Salt, Max. 69.5% Iron 0.165% Zinc 0.010%	76.4% 0.33% 0.016%
Harvest Brand Inc., Pittsburg, Ks. 66762 Harvest Brand Stock-O-Lass	Crude Fiber 16.0%	18.2%
Henderson Feed & Commission, Henderson, Ky. 42420 42% Meat Meal Tankage	Crude Protein 42.0%	50.8%
International Milling Co., Minneapolis, Mn. 55415 Supersweet Pig Builder, Medicated Supersweet 42% Milk Maker Supersweet Beefmaker Block	Chlortetracycline 100 gm/T Penicillin 50 gm/T Sulfamethazine 0.011% Crude Protein 42.0% Crude Protein 37.0%	0.0 0.0 0.0 39.5% 33.8%
Kal Kan Foods, Inc., Los Angeles, California 90058 Kal Kan Bits-O-Tuna & Liver	Crude Fat 2.5%	10.4% Not Registered
Kentucky Animal By-Products, Russellville, Ky. 42276 Blue Ribbon Brand 45% Meat & Bone Meal	Crude Protein 45.0%	52.0%

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MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Kentucky By-Products Corp., Louisville, Ky. 40211 Dri-Molasses 85% Cane Molasses	Crude Fiber 8.0%	12.0%
	Sugar, Invert 42.0%	33.5%
Dri-Molass, Cane Blackstrap Molasses	Crude Protein 7.0%	12.1%
	Sugar, Invert 42.0%	32.9%
Dri-Molass	Crude Fiber 8.0%	12.1%
Dri-Molasses	Crude Protein 7.0%	12.2%
	Crude Fiber 8.0%	10.1%
Dri-Molasses	Crude Protein 7.0%	13.3%
Dri-Molass, 85% Cane Molasses	Sugar, Invert 42.0%	31.67%
Dri-Molass, 85% Cane Molasses	Sugar, Invert 42.0%	32.08%
	Crude Protein 7.0%	13.0%
Dri-Molass, Cane Blackstrap Molasses	Crude Protein 7.0%	13.8%
	Sugar, Invert 42.0%	27.2%
K-Molasses	Crude Protein 7.0%	12.0%
	Crude Fiber 8.0%	12.3%
King Bar Fly, Medicated	Sugar, Invert 42.0%	28.7%
Dri-Molass	Calcium, Min. 14.0%	11.2%
	Crude Fiber 8.0%	10.6%
	Sugar, Invert 42.0%	36.9%
Kimbell-Diamond Milling Co., Ft. Worth, Tx. 76101 Kimco 37% Range Block	Salt, Max. 15.0%	18.6%
Livestock Industries, Inc. Park City, Ky. 42160 Life Calf Ration Medicated	Chlortetracycline 50 gm/T	17.8 gm/T
Life Pig Grower Medicated	3-Nitro-4 0.0025%	0.0035%
Life Pig Grower Medicated	3-Nitro-4 0.0025%	0.0040%
Life Dairy Fifty	Crude Fat 6.0%	2.3%
Life Pig Grower Medicated	Crude Fiber 4.5%	7.1%
	3-Nitro-4 0.0025%	0.0042%
Life Pig & Hog Forty Medicated	3-Nitro-4 0.0025%	0.0062%
Life Hog Finisher 1-9 Medicated	3-Nitro-4 0.0025%	0.0152%
Life Pig Grower Medicated	Arsanilic Acid 0.01%	0.0015%
Life Pig & Hog Forty Medicated	Crude Protein 40.0%	34.8%
Life Pig & Hog Forty Medicated	Crude Protein 40.0%	33.2%
Life Pig & Hog Forty Medicated	Crude Protein 40.0%	35.8%
Life Pig & Hog Forty Medicated	Oxytetracycline 100 gm/T	44.4 gm/T
Life Pig Grower Supplement Medicated		
Lowes Feed & Hatchery, Bowling Green, Ky. 42101 Lowes 42% Pig Concentrate Medicated	Crude Protein 42.0%	39.3%
Lowes 42% Pig Concentrate Medicated	Penicillin 17.5 gm/T	4.0 gm/T
Lowes 42% Pig Concentrate Medicated	Penicillin 17.5 gm/T	4.0 gm/T
Lowes Sweet Mix	Crude Protein 12.5%	10.2%
Lowes 42% Pig Concentrate Medicated	Penicillin 17.5 gm/T	6.6 gm/T
McCauley Brothers Seed Co., Versailles, Ky. 40383 Ag Time Lamb Creep Pellets Medicated	Chlortetracycline 20 gm/T	2.6 gm/T
Ag Time Pig Grower Medicated	Chlortetracycline 100 gm/T	47.6 gm/T
	Penicillin 50 gm/T	18.1 gm/T
Ag Time Lamb Fattner Medicated	Chlortetracycline 20 gm/T	2.0 gm/T
McInnis Company, Pulaski, Tennessee 38478 McInnis 20% Horse Block	Salt, Min. 14.0%	11.2%
Mayfield Milling Co., Inc. Mayfield, Ky. 42066 Gro-Fast Pig Forty Medicated	Penicillin 200 gm/T	74.6 gm/T
	Sulfamethazine 0.044%	0.02%
Gro-Fast Pig Starter Medicated	Sulfamethazine 0.011%	0.0157%
Mayfield Sweet Feed Mill, Mayfield, Ky. 42066 State Leader 18% Pig & Sow Medicated	Penicillin 1.5 gm/T	2.7 gm/T
State Leader Pig & Sow Feed Medicated	Streptomycin 7.5 gm/T	2.0 gm/T
Mid-South Feeds, Nashville, Tn. 37209 32% Dairy Concentrate	Crude Protein 32.0%	29.2%
Mid-South Broiler Starter, Medicated	3-Nitro-4 0.005%	0.0003%

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MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Miller Milling Service, Bowling Green, Ky. 42101 Alfalfa Meal	Crude Protein 13.0%	10.8% Contained Grass Meal Very Little Alfalfa.
Mohawk Milling Company, Newport, Tennessee 38721 Jersey Cream Mixed Feed	Crude Fiber 8.5%	11.2%
Nashville Cotton Oil Mill Co., Nashville, Tn. 37202 Cottonseed Meal	Crude Protein 41.0%	38.0%
National Molasses Co., Oreland, Pa. 19090 Cane Molasses Cane Molasses	Sugar, Invert 48.0% Sugar, Invert 48.0%	41.7% 41.97%
National Oats Co., E. St. Louis, Ill. 62205 Corno Sow & Pig Supplement Medicated	Penicillin 3.0 gm/T	6.8 gm/T
Nicholas County Feeders Supply, Carlisle, Ky. 40311 Check-R-Mix 16% Dairy Feed MW	Crude Protein 16.0%	13.9%
Nutrena Mills, Inc., Minneapolis, Minn. 55402 Pig 38 Concentrate U Medicated Pre-Shoat 16 (S) Medicated Pellets	Tylosin 400 gm/T Chlortetracycline 20 gm/T	221.3 gm/T 5.0 gm/T
Odon Milling Co., Odon, Indiana 47562 Magic 40% Hog Concentrate	Crude Protein 40.0 gm/T	37.4 gm/T Not Registered.
Orleans Canning Co., Chicago, Ill. 60603 Orleans, Horsemeat-Meat By-Products Orleans, Horsemeat-Meat By-Products Orleans, Horsemeat-Meat By-Products Orleans, Horsemeat-Meat By-Products Orleans Chopped Horse Meat Orleans Chopped Horse Meat & Meat By-Products	Crude Fat 6.0% Crude Fat 6.0% Crude Fat 6.0% Crude Fat 6.0% Crude Fat 6.0% Crude Fat 6.0	33.6% 30.8% 13.7% 14.0% 14.1% 10.9%
Owensboro Milling Co., Owensboro, Ky. 42301 Tru-Test 36% Pig & Sow Medicated Tru-Test 36% Pig & Sow Medicated	Penicillin 13.1 gm/T Penicillin 13.1 gm/T	5.9 gm/T 4.4 gm/T
Pan American Mills, Bowling Green, Ky. 42101 Green Valley 35% Hog Concentrate Medicated Booster 18% Sow & Pig Medicated Green Valley 35% Hog Concentrate Medicated Booster 40% Hog Supplement Medicated Green Valley 35% Hog Concentrate Medicated Booster 40% Hog Supplement Medicated Booster Calf Ration Medicated 16% Pig Grower Medicated Pan American 13 Hog Finisher Medicated	Penicillin 12.5 gm/T Arsanilic Acid 0.01% Penicillin 17.5 gm/T Penicillin 12.5 gm/T Penicillin 12.5 gm/T Penicillin 12.5 gm/T Chlortetracycline 40.0 gm/T Arsanilic Acid 0.01% Penicillin 3.0 gm/T	3.0 gm/T 0.014% 4.1 gm/T 3.1 gm/T 3.1 gm/T 6.1 gm/T 9.5 gm/T 0.0046% 1.3 gm/T
Quaker Oats Co., Shiremantown, Pa. 17091 Ful-o-Pep Pro Sweet Block, Medicated	Crude Protein 36.0%	33.4%
Ralston Purina Company, St. Louis, Mo. 63199 Purina Cow Chow Concentrate 50% Purina Dairy Chow Concentrate 44% Purina Special Steer Fatena 50 Purina Bulk Dairy Concentrate Purina Pura-Lasses Purina Hog Chow Medicated Checkerboard Dairy 16 Ky	N.P.N. 30.0% N.P.N. 22.0% Crude Protein 50.0% Crude Protein 44.0% Crude Protein 7.0% Crude Protein 36.0% Crude Protein 16.0% N.P.N. 4.5%	32.4% 24.5% 47.1% 50.0% 13.2% 33.5% 34.6% 15.1% Feed Very Moldy
Purina Pura-Lasses Purina 44% Soybean Meal	Crude Protein 7.0% Crude Protein 44.0%	12.6% 50.4%

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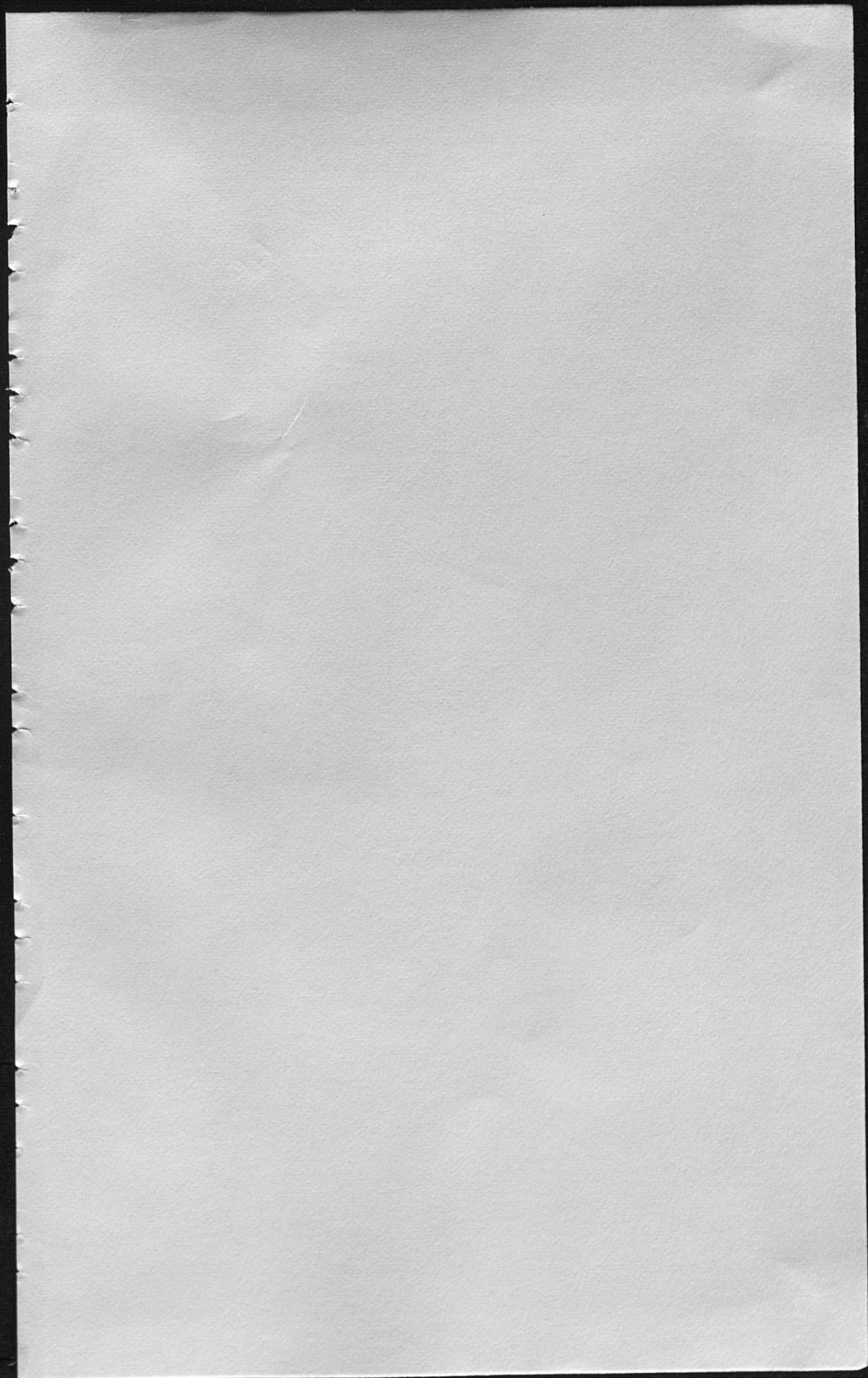
MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Purina Dairy Concentrate 44	Crude Protein 44.0%	49.4%
Purina Special Steer 32	Crude Protein 32.0%	21.0%
Purina Pura-Lasses	Crude Protein 7.0%	13.5%
	Sugar, Invert 42.0%	36.8%
Purina Pre Conditioning Chow Medicated	Crude Protein 12.0%	19.1%
Purina Special Steer Fatena BIR 4	Crude Protein 24.0%	17.8%
Purina Commercial Hog Finisher Medicated	Crude Protein 12.0%	22.9%
Purina Special Steer Fatena	Crude Protein 22.0%	27.4%
Purina Pro Lay Warm Temp. I	Crude Protein 15.0%	21.8%
Purina Pro Lay Warm Temp. I	Crude Protein 15.0%	21.2%
Purina Pura-Lasses	Crude Protein 7.0%	13.1%
Purina Pre Conditioning Chow Medicated	Crude Protein 12.0%	18.3%
	N.P.N. 2.0%	5.1%
Purina Commercial Hog Finisher Medicated 2205C	3-Nitro-4 0.005%	0.0025%
Purina Pig Growena Medicated	3-Nitro-4 0.005%	0.0
Purina Pig Growena Medicated 2101	3-Nitro-4 0.005%	0.0
Purina Hog Chow D 3N Medicated	Oxytetracycline 50 gm/T	24.5 gm/T
Purina Baby Pig Chow Medicated	Penicillin 50 gm/T	19.1 gm/T
Purina Pig Startena Medicated	Penicillin 50 gm/T	23.2 gm/T
Purina Baby Pig Chow Medicated	Penicillin 50 gm/T	23.3 gm/T
Purina Baby Pig Chow Medicated	Penicillin 50 gm/T	22.4 gm/T
Purina Chicken, Chicken By-Products	Crude Fat 5.0%	14.0%
Captain Kitt Tuna For Cats	Crude Fat 2.0%	7.2%
Purina Cat Food	Crude Fat 2.0%	8.7%
	Crude Protein 22.5%	20.3%
Purina Beef & Eggs & Meat By-Products for Dogs	Crude Fat 7.5%	18.9%
Purina Broiler Chow Finisher Medicated # 1	Crude Fat 4.5%	10.5%
Purina Beef & Meat By-Products	Crude Fat 7.5%	17.45%
Purina Pura-Lasses	Sugar, Invert 42.0%	33.8%
Purina Pura-Lasses	Crude Protein 7.0%	12.3%
Purina Pura-Lasses	Sugar, Invert 42.0%	37.5%
Purina Pura-Lasses	Sugar, Invert 42.0%	36.0%
Purina Steer Fatena 50 (F)	Salt, Max. 6.2%	8.6%
Purina Horse Block	Salt, Max. 15.0%	17.2%
Purina Check Fly Cattle Block Medicated	Salt, Max. 15.0%	20.9%
Purina Check Fly Cattle Block Medicated	Salt, Max. 15.0%	23.4%
Purina Check Fly Cattle Block Medicated	Salt, Max. 15.0%	22.9%
Purina Commercial Sow Chow Medicated	Calcium, Min. 4.0%	1.0%
Purina Pig Chow 40 Medicated	Crude Protein 40.0%	33.9%
	Penicillin 200 gm/T	81.7 gm/T
	Sulfamethazine .044%	.0163%
Purina Pig Startena Medicated 2013	Chlortetracycline 100 gm/T	46.5 gm/T
Purina Earyl Weaning Chow Medicated	Chlortetracycline 100 gm/T	47.7 gm/T
Purina Baby Pig Chow Medicated	Chlortetracycline 100 gm/T	42.0 gm/T
	Penicillin 50 gm/T	19.9 gm/T
	Sulfamethazine 0.011%	0.0058%
Purina Baby Pig Chow Medicated	Chlortetracycline 100 gm/T	34.1 gm/T
	Penicillin 50 gm/T	13.9 gm/T
Purina Baby Pig Chow Medicated	Chlortetracycline 100 gm/T	39.8 gm/T
	Penicillin 50 gm/T	15.2 gm/T
Purina Steer Fatena H3	N.P.N. 10.0%	16.0%
	Crude Fiber 12.0%	14.2%
Purina Golden Bulky	Crude Fiber 20.0%	22.7%
Scott County Milling Co., Sikeston, Mo. 63801		
Gristo Pig & Sow Supplement Medicated	Penicillin 6.6 gm/T	1.7 gm/T
Southern States Cooperative, Baltimore, Md. 21203		
S.S. Hi-Blend	Crude Protein 44.0%	49.5%
S.S. Pro-Blend 50 Extra	Crude Protein 50.0%	56.0%
S.S. Red Ranger Dog Food	Crude Protein 11.0%	8.8%
S.S. Pro-Blend 50	Crude Protein 50.0%	55.8%
S.S. Pro-Blend 50	Crude Protein 50.0%	60.8%
	N.P.N. 25.0%	29.0%
S.S. Hi-Blend Cattle Supplement	Crude Protein 44.0%	49.8%
S.S. Hi-Blend Cattle Supplement	Crude Protein 44.0%	50.7%
S.S. Hi-Blend Cattle Supplement	Crude Protein 44.0%	53.9%
	N.P.N. 21.5%	25.4%
S.S. Hi-Blend Cattle Supplement	Crude Protein 44.0%	53.2%
	N.P.N. 21.5%	23.6%

TABLE 2 SAMPLES CLASSIFIED AS "NOT PASSED"

MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
S.S. Super Blend 65	Crude Protein 65.0%	70.3%
S.S. Super Blend 65	Crude Protein 65.0%	70.9%
S.S. Gro-N-Show Medicated	Crude Protein 13.0%	18.3%
S.S. Pro-Blend 50	Crude Protein 50.0%	56.5%
S.S. Pro-Blend 50	N.P.N. 25.0%	27.4%
S.S. Pro-Blend 50	Crude Protein 50.0%	57.4%
S.S. Sow & Pig Supplement Medicated	Chlortetracycline 50 gm/T	14.8 gm/T
S.S. Sow & Pig Supplement	Crude Protein 38.0%	35.3%
S.S. 37% Feed Block	Crude Protein 37.0%	33.0%
S.S. Anti-Fly Block Medicated	Crude Protein 16.0%	22.3%
S.S. Anti-Fly Block Medicated	Crude Protein 16.0%	27.7%
	N.P.N. 5.0%	10.9%
	Copper 0.01%	0.005%
	Iron 0.119%	0.50%
	Manganese 0.04%	0.10%
	Zinc 0.03%	0.07%
S.S. Silage Plus	Crude Protein 112.0%	104.4%
	Iron 0.025%	0.055%
	Zinc 0.085%	0.14%
	Magnesium 0.66%	1.673%
S.S. 38% Sow & Pig Supplement Medicated	Oxytetracycline 50.0 gm/T	77.2 gm/T
S.S. Wormer Medicated	Piperazine 0.25%	0.034%
S.S. High Mag Block	Calcium, Max. 2.75%	5.3%
S.S. Super Hog Supplement	Salt, Min. 7.5%	3.0%
S.S. Super Hog Supplement	Salt, Min. 7.5%	3.7%
S.S. Beef Blend Medicated	Salt, Min. 7.0%	4.8%
S.S. Silage Plus	Crude Protein 112.0%	101.9%
	Calcium, Max. 8.5%	11.9%
Southern States Cooperative, Richmond, Virginia 23213		
S.S. Vit Min Mixture	Iron 0.166%	0.690%
Star-Kist Foods, Inc., Terminal Island, Ca. 90730		
9-Lives Tuna Cat Food	Crude Fat 2.0%	7.0%
Stewarts Feed Mill, Flat Lick, Ky. 40935		
Stewarts Best Horse & Mule Feed	Crude Protein 13.0%	18.1%
Sturgis Milling Company, Sturgis, Ky. 42459		
Hoppy's 35% Pig Supplement Medicated	Penicillin 12.5 gm/T	5.8 gm/T
Hoppy's 35% Pig Supplement Medicated	Penicillin 12.5 gm/T	2.2 gm/T
Sunshine Molasses Company, Somerset, Ky. 42501		
Blackstrap Molasses	Sugar, Invert 48.0%	41.5%
Blackstrap Molasses	Sugar, Invert 48.0%	42.3%
Blackstrap Molasses	Sugar, Invert 48.0%	41.7%
Supreme Mills, Glasgow, Ky. 42141		
Supreme 50% Dairy Supplement	Crude Protein 50.0%	30.0%
Supreme Premo-Lass	Crude Protein 7.0%	12.0%
	Crude Fiber 8.0%	13.6%
	Sugar, Invert 42.0%	23.3%
		Contained
		Rice Hulls
		In Addition
		To Listed
		Ingredients
Supreme Premo-Lass	Crude Protein 6.0%	12.7%
Supreme 17½% Pig & Hog Feed Medicated	Tylosin 20 gm/T	9.4 gm/T
Supreme 50% Dairy Supplement	Crude Protein 50.0%	55.1%
Supreme 17½% Pig & Hog Feed Medicated	Crude Protein 17.5%	22.6%
D. B. Sutherland & Sons, Bloomfield, Ky. 40008		
Ky. Star Dairy Feed	Crude Protein 16.0%	21.5%
	N.P.N. 5.24%	8.5%
T & H Feed Service, Lebanon, Ky. 40033		
Marco 16% Dairy Feed	N.P.N. 1.7%	4.7%

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MANUFACTURER, ADDRESS AND BRAND	GUARANTEED	FOUND
Thorobred Company, Inc., Waynesville, Oh. 45068		
Thorobred Dog Food	Crude Fat 6.0%	13.1%
Thorobred Gourmet Pack All Beef For Dogs	Crude Fat 6.0	21.4%
Thorobred Chicken	Crude Fat 6.0%	11.3%
Vylactos Laboratories, Inc., Syracuse, Ind. 46567		
Mr. Blackstrap, Cane Molasses	Sugar, Invert 42.0%	36.6%
Mr. Blackstrap, Cane Molasses	Sugar, Invert 42.0%	33.2%
Mr. Blackstrap, Cane Molasses	Sugar, Invert 42.0%	37.1%
George Wiedemann Brewing Co., Newport, Ky. 41071		
Brewers Dried Grains	Crude Protein 26.0%	31.8%
Brewers Dried Grains	Crude Protein 26.0%	32.0%
Martha White Foods, Inc., Nashville, Tenn. 37202		
Life Cycle 40% Hog Supplement 90 Med.	Arsanilic Acid 0.05%	0.002%
	Penicillin 15 gm/T	1.0 gm/T
Whiz Pet Food Co., Seattle, Washington 98114		
Kitty Salmon Flavor	Crude Fat 7.5%	12.60%
R. L. Wiles Feed Mills, Inc., Nashville, Tn. 37210		
Famous 18% Complete Chick Starter & Grower Med.	Arsanilic Acid 0.0099%	0.0020%
	Nitrofurizone 0.0055	0.0
Famous Calf Starter	Crude Protein 20.0%	13.7%
Famous 33% Dairy Concentrate	Crude Protein 33.0%	47.2%



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