

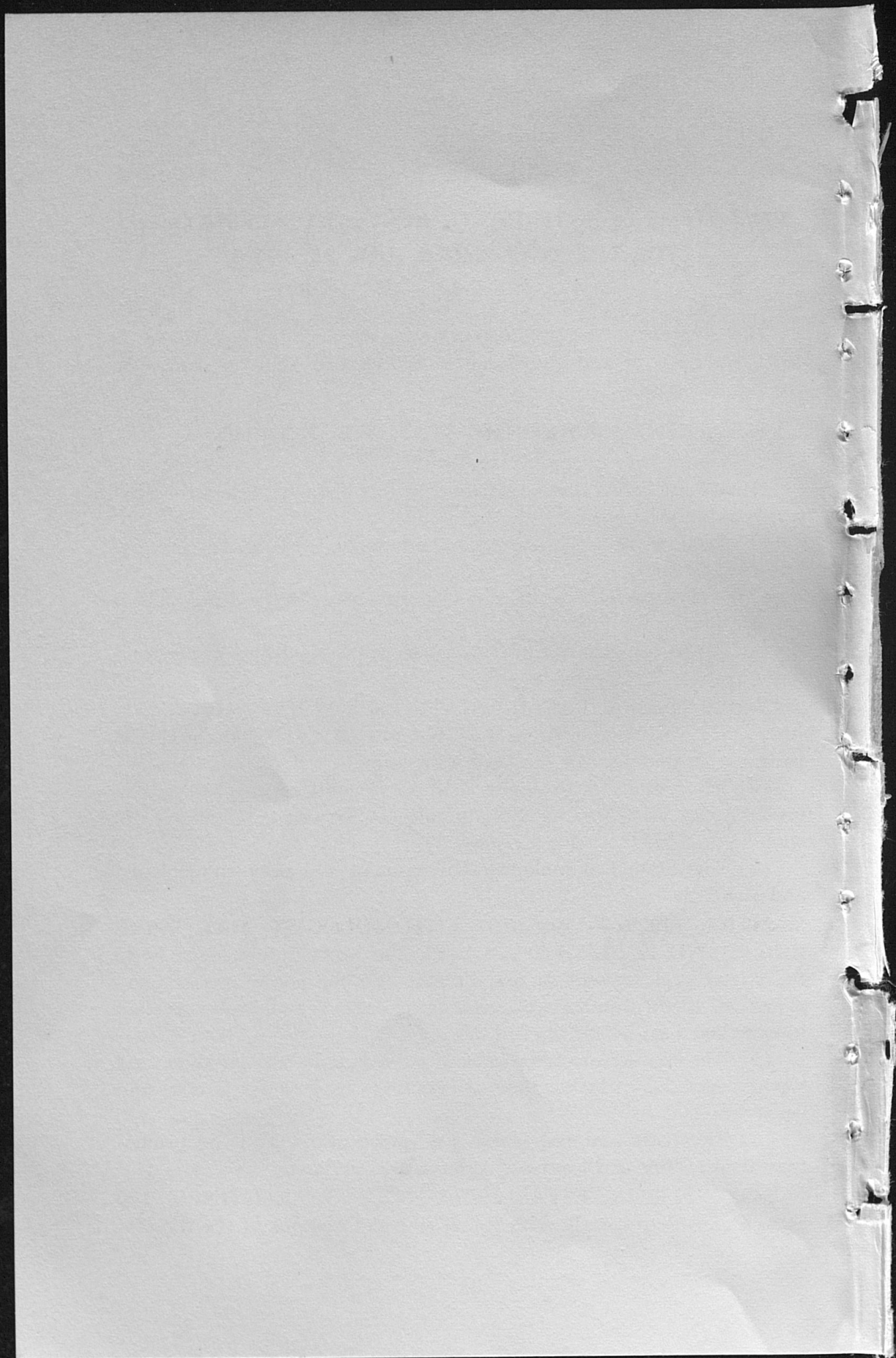
Some Items of Interest to Kentucky Nurserymen

For the Year Ended June 30, 1954

By W. A. Price
and
Howard G. Tilson



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**SOME ITEMS OF INTEREST TO KENTUCKY NURSERYMEN,
FOR THE YEAR ENDED JUNE 30, 1954**

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The Kentucky Nursery Inspection Law, since its enactment in 1926, has been revised and is herein reproduced as it appears upon the statute books.

**KENTUCKY REVISED STATUTES-SECTIONS
249.010 to 249.990**

249.010 DEFINITIONS. As used in this chapter, unless the context requires otherwise:

(1) "Commissioner" means the Commissioner of Agriculture, Labor and Statistics.

(2) "Department" means the Department of Agriculture, Labor and Statistics.

(3) "Director" means the Director of the Agricultural Experiment Station.

249.020 (1925a-1; 1925a-10) STATE ENTOMOLOGIST; ASSISTANT. (1) The Entomologist and botanist of the Agricultural Experiment Station shall be the State Entomologist.

(2) The State Entomologist shall serve without pay other than his salary as an officer of the Agricultural Experiment Station. He shall be paid his traveling expenses.

(3) The State Entomologist shall appoint a deputy entomologist and assistants.

249.030 (1925a-1; 1925a-10) ENTOMOLOGIST MAY MAKE RULES AND PUBLISH DATA. (1) The State Entomologist, with the advice and consent of the director and the commissioner, may prescribe, modify and enforce rules, regulations and orders needed to carry out KRS 249.020 to 249.100.

(2) The State Entomologist may publish bulletins, circulars and reports containing information concerning inspections, insects and plant diseases.

(3) The rules and regulations and publications shall be printed from time to time and furnished to interested persons.

249.040 (1925a-1) ESTABLISHMENT OF QUARANTINES. The State Entomologist shall, with the advice and consent of the director

and the commissioner, establish and maintain quarantines against the importation into this state, of any trees, plants and parts of plants, whether nursery-grown or not, from any state or from any county within the state, where such plants or parts of plants are known to be affected with dangerous insect pests or plant diseases. He shall designate in announcements of quarantine the area quarantined, whether it constitutes a part of this state or some other state.

249.050 (1925a-2) INSPECTION OF ARTICLES AND PREMISES: DISEASED PLANTS TO BE DESTROYED. Whenever the State Entomologist or his deputy has reason to believe or is credibly informed that at any place within the state there has been introduced, or offered for sale, trees, plants or parts of plants infected or infested with diseases or destructive pests that are likely to spread, he shall investigate the suspected articles and premises. If they are found so infested or infected, he shall notify the owner or possessor, in writing, of the nature of the infestation, specifying the insects or diseases that have been found, and demand that within a reasonable specified time the affected articles or premises be disinfected, or destroyed by fire, under the direction of the State Entomologist, his deputy or assistant, and at the expense of the owner or possessor.

249.060 (1925a-8) NURSERIES, DEALERS AND AGENTS TO BE LICENSED. (1) Every resident nursery or agency selling nursery stock in this state shall annually file credentials with the State Entomologist. If these credentials are satisfactory to the State Entomologist, the director and the commissioner, the State Entomologist shall, upon payment of a fee of five dollars by the nursery or agency, issue it a license authorizing it to do business in the state.

(2) Every nonresident nursery and every agent, dealer or seller of trees, representing nonresident nurseries or dealers shall annually file credentials with the State Entomologist. These credentials shall include the names of nurseries, nurserymen or other persons represented. If these credentials are satisfactory to the State Entomologist, the director and the commissioner, the State Entomologist shall issue the license.*

(3) Any person soliciting orders for or delivering trees or plants in this state shall carry with him a copy of his license from this state, which he shall show to prospective buyers, purchasers, county officials or agents of the State Entomologist on demand.

* Only resident nurserymen and dealers are required to pay the five dollar license fee.

249.070 (1925a-3; 1925a-4) ENTOMOLOGIST TO INSPECT NURSERIES AND ORDER DESTRUCTION OF PESTS: SHIPMENT OF AFFECTED STOCK PROHIBITED. (1) All nurseries where trees, vines, plants or other nursery stock are grown and offered for sale, shall be inspected by the State Entomologist or by his assistant, once each year. He shall notify the owners of such nurseries, in writing, of the presence of any San Jose scale or other dangerous pests on the stock of these nurseries, and shall also notify, in writing, the owner of any affected nursery stock to take such measures, on or before a certain day, for the destruction of insect or fungus enemies of nursery stock as have been shown to be effectual.

(2) The owner of the affected nursery shall, within the time specified, take such steps for the destruction of injurious insects or fungus enemies present, as will exterminate them.

(3) No person shall ship or deliver any such nursery stock affected with insects or fungus enemies, before treatment.

249.080 (1925a-5) ENTOMOLOGIST TO ISSUE CERTIFICATE FOR STOCK FREE FROM INSECTS AND FUNGUS. When the State Entomologist examines any trees, vines, plants or other nursery stock and finds the stock free from dangerously injurious insects and fungus enemies, he shall make out and deliver to the owner of the stock a certificate stating that he has inspected the stock and that he believes it to be free from dangerously injurious insects and fungus enemies. He shall keep in his office, for the information of anyone interested, copies of all valid certificates issued by him.

249.090 (1925a-6) SHIPMENTS TO BE ACCOMPANIED BY INSPECTION CERTIFICATES. Whenever a resident nurseryman or seller of trees, vines, plants or other nursery stock ships or delivers such goods, he shall send on each package so shipped or delivered a printed copy of the certificate issued to him by the State Entomologist, stating that the stock has been inspected as required by law and is believed to be free from dangerously injurious insect or fungus enemies.

249.100 (1925a-7) NONRESIDENTS TO FILE, AND IMPORTED PLANTS TO BEAR, INSPECTION CERTIFICATES. Every nonresident nurseryman or other person intending to ship into this state trees, plants or parts of plants, whether nursery-grown or not, shall file with the State Entomologist a copy of a valid certificate

from a state or United States Government inspector showing that the trees, plants or their parts have been inspected and that he is authorized to sell and ship or transport them. All packages of trees, plants or parts of plants shall bear a copy of a certificate of inspection from an official inspector. Transportation companies within the state shall notify the State Entomologist at once when any such trees or plants are received by them without a valid certificate. Nursery stock or other trees, plants or parts of plants shipped into this state in violation of a state or United States quarantine may be seized and destroyed or returned to the shipper at the expense of the owner or possessor.

249.200 (42g-1; 42g-2) JAPANESE BEETLE CONTROL. The State Entomologist shall adopt and carry out such measures as he deems advisable to protect crops from the ravages of the Japanese beetle (*Popillia japonica*). He may employ help, purchase materials and enforce such regulations as in his discretion are necessary to accomplish the purpose.

249.990 (42f-4; 200; 1923; 1925a-4; 1925a-9) PENALTIES. (1) Any person who violates any of the provisions of KRS 249.020 to 249.100 or hinders the carrying out of any of the provisions of those sections shall be fined not less than twenty-five dollars nor more than five hundred dollars.

(2) Any fine imposed for a violation of subsection (3) of KRS 249.070 may be recovered in the county in which the nursery is situated or the county to which the nursery stock is shipped.

SUMMARY OF REQUIREMENTS OF KENTUCKY NURSERY INSPECTION LAW

(1) It shall be unlawful to sell or offer for sale uninspected or uncertified nursery stock. A certificate of inspection indicates freedom from certain injurious insects and plant diseases but does not vouch for trueness to variety nor for grade and condition of any nursery stock.

(2) Growers of nursery stock, for sale or shipment, shall apply in writing before June 1st of each year to the State Entomologist, Kentucky Agricultural Experiment Station, Lexington, for inspection services.

(3) Every dealer in nursery stock shall secure a nursery dealer's permit. Before this is issued, however, he must furnish an affidavit that he will buy and sell only stock that is certified and will maintain

with the State Entomologist a correct and complete list of all sources from which he gets his stock. Landscape architects and tree movers who handle nursery stock are classified as dealers.

(4) Every person who solicits orders for nursery stock shall obtain and carry an agent's permit which is secured only upon request of the nurseryman or dealer to be represented.

(5) All packages or bundles of nursery stock shipped by common carrier must have attached a copy of the inspection certificate or permit.

(6) Certificates and permits may be revoked for cause.

(7) Fees shall be paid as follows: Inspection certificate \$5; dealer's permit, \$5. Agents' permits and nonresident nurserymen's certificates are furnished without cost. Fees shall accompany application. Application blanks may be obtained from the State Entomologist.

(8) Nonresident nurserymen shall file copies of their state certificates and secure nonresident permits. Every package of nursery stock coming into Kentucky shall have a valid inspection certificate attached to the package. Nonresident nurserymen, dealers, and agents shall carry their Kentucky permits when soliciting orders or delivering nursery stock in Kentucky.

(9) All certificates and permits automatically expire June 30 following date of issuance.

"NURSERY STOCK" DEFINED

Nursery stock includes all trees, shrubs, vines; roses, strawberry, raspberry, and blackberry plants; herbaceous perennial plants and roots; ornamental bulbs, corms, tubers, and rhizomes; and any part of the above groups of plants capable of disseminating injurious insects and plant diseases. For regulatory purposes the term "Nursery Stock" includes all plants which grow out of doors and live more than one year, whether nursery grown or native.

REQUIREMENTS FOR SHIPMENT OF NURSERY STOCK INTO OTHER STATES

A summary of the major requirements for shipping nursery stock into other states is given on the following page. It will be noted that most states require the out-of-state shipper to file a copy of his nursery inspection certificate with the proper administrative authority

before shipments are made. Only three states require filing fees, except under special conditions, that are noted in a table which follows.

Special shipping tags are required by the following states and will be furnished by them at a nominal cost to the shippers: Arkansas (\$2 per 100 tags); Florida (\$3.24 per 100 tags); Georgia (\$1.00 per 100 tags); and New Mexico (\$1.25 per 100 tags).

A special tag should be secured and attached to each bundle of nursery stock shipped to any of the four states listed.

State	State of origin certificate filed	Nurseryman's filing fee	Agent's fee	Special tag	Posted Bond
Alabama	Yes	Reciprocal	\$1	No	None
Arizona	No	None	None	No	None
Arkansas	Yes	Reciprocal	\$1	Yes	Reciprocal
California	No	None	None	No	None
Canada	Yes	None	None	Yes ¹	None
Colorado	Yes	None	None	No	None
Connecticut	No	None	None	No	None
Delaware	Yes	None	None	No	None
Florida	Yes	None	None	Yes	None
Georgia	Yes	Reciprocal	\$1	Yes	\$1000 ²
Idaho	Yes	\$5 to \$15	\$1	No	\$1000 ²
Illinois	Yes	None	None	No	None
Indiana	Yes	None	\$1	No	None
Iowa	Yes	Reciprocal	None	No	None
Kansas	Yes	Reciprocal	None	No	None
Kentucky	Yes	None	None	No	None
Louisiana	No	None	None	No	None
Maine	Yes	None	None	No	None
Maryland	Yes	Reciprocal	None	No	None
Massachusetts	Yes	None	None	No	None
Michigan	Yes	\$15 or Reciprocal ³	\$1	No	None
Minnesota	Yes	Reciprocal	Reciprocal	No	None
Mississippi	Yes	Reciprocal	None	No	None
Missouri	Yes	None	None	No	None
Montana	Yes	\$5 to \$25	\$25	No	None
Nebraska	Yes	Reciprocal	\$1	No	None
Nevada	No	None	None	No	None
New Hampshire	No	None	None	No	None
New Jersey	Yes	Reciprocal	None	No	None
New Mexico	Yes	\$10	\$25	Yes	None
New York	No	None	None	No	None
North Carolina	Yes	Reciprocal	None	No	\$1000 ⁴
North Dakota	Yes	Reciprocal	None	No	None
Ohio	Yes	Reciprocal	\$1	No	None
Oklahoma	Yes	Reciprocal	\$1	No	None
Oregon	No	None	\$1	No	None [*]
Pennsylvania	Yes	None	None	No	None
Rhode Island	Yes	None	None	No	None
South Carolina	Yes	None	None	No	None
South Dakota	Yes	Reciprocal	\$1	No	None
Tennessee	Yes	Reciprocal	Reciprocal	No	\$5000 ⁴
Texas	Yes	Reciprocal	None	No	None
Utah	Yes	\$10 ³	None	No	None
Vermont	No	None	None	No	None
Virginia	No	Reciprocal	Reciprocal	No	None
Washington	No	Reciprocal	\$1	No	None
West Virginia	Yes	None	\$1	No	None
Wisconsin	Yes	None	None	No	None
Wyoming	Yes	Reciprocal	None	No	None

¹ Secure special permit and instruction from officer in charge before making shipment.

² Only for fruit-stock shippers.

³ For nurserymen who operate through agents.

⁴ For nurserymen who promise maintenance.

PLANT QUARANTINE OFFICIALS OF THE STATES,
TERRITORIES, DISTRICT OF COLUMBIA,
CANADA, AND MEXICO

Alabama	B. P. Livingston, Chief, Division of Plant Industry, State Department of Agriculture and Industries, P. O. Box 22D, Montgomery 1
Alaska	Hon. Clyde G. Sherman, Commissioner of Agriculture, Fairbanks
Arizona	W. T. Mendenhall, State Entomologist, P. O. Box 2006, Phoenix
Arkansas	Paul H. Millar, Chief Inspector, State Plant Board, Little Rock
California	A. P. Messenger, Chief, Bureau of Plant Quarantine, State Department of Agriculture, Sacramento 14
Canada	W. N. Keenan, Chief, Division of Plant Protection, Department of Agriculture, Ottawa, Ontario
Colorado	F. Herbert Gates, State Entomologist, Bureau of Plant and Insect Control, 20 State Museum, Denver 2
Connecticut	Nealy Turner, State Entomologist, Agricultural Ex- periment Station, Box 1106, New Haven 4
Delaware	W. R. Hickman, Nursery Inspector, State Board of Agriculture, Dover
District of Columbia.	W. B. Wood, Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture, Washington 25
Florida	Ed. L. Ayers, Plant Commissioner, State Plant Board, Gainesville
Georgia	C. H. Alden, Director of Entomology, State Capitol, Atlanta 3
Hawaii	Wm. C. Look, Chief Plant Inspector, Board of Com- missioners of Agriculture and Forestry, Honolulu
Idaho	Hon. D. A. Stubblefield, Commissioner State Depart- ment of Agriculture, Boise
Illinois	H. F. Seifert, Horticultural Inspection Supervisor, Room 300, Professional Arts Building, Glen Ellyn
Indiana	Frank N. Wallace, State Entomologist, State Depart- ment of Conservation, Indianapolis
Iowa	Dr. H. M. Harris, State Entomologist, Ames
Kansas, North	Dr. Herbert Knutson, State Entomologist, State Col- lege of Agriculture and Applied Science, Manhattan
South	Dr. Charles D. Michener, Entomologist, Entomolog- ical Commission of Kansas, Lawrence
Kentucky	Professor Walter A. Price, State Entomologist, Col- lege of Agriculture and Home Economics, University of Kentucky, Lexington
Louisiana	S. J. McCrory, State Entomologist, State Department of Agriculture and Immigration, Box 4153, Capitol Station, Baton Rouge
Maine	E. L. Newdick, Chief, Division of Plant Industry, State Department of Agriculture, Augusta
Maryland	Dr. E. N. Cory, State Entomologist, University of Maryland, College Park

- Massachusetts. Quincy S. Lowry, Assistant Director, Division of Plant Pest Control and Fairs, 41 Tremont Street, Boston 8
- Mexico. Ing. Dario Arrieta, Director General of Agriculture, San Jacinto, D. F. Mexico
- Michigan. C. A. Boyer, Chief, Bureau of Plant Industry, State Department of Agriculture, Lansing 13
- Minnesota. T. L. Aamodt, Director, Bureau of Plant Industry, State Department of Agriculture, Dairy and Food, University Farm, St. Paul 1
- Mississippi. Dr. R. E. Hutchins, Entomologist, State Plant Board, State College
- Missouri. Julius R. Anderson, State Entomologist, State Department of Agriculture, Jefferson City
- Montana. R. O. Young, Chief, Division of Horticulture, State Department of Agriculture, Labor, and Industry, Missoula
- Nebraska. C. J. Walstrom, Entomologist, Bureau of Plant Industry, State Department of Agriculture and Inspection, Lincoln
- Neveda. George G. Schweis, Director, Division of Plant Industry, State Department of Agriculture, P. O. Box 1027, Reno
- New Hampshire. Dr. J. G. Conklin, State Entomologist, Insect and Plant Disease Suppression and Control, State Department of Agriculture, Durham
- New Jersey. Harry B. Weiss, Chief, Bureau of Plant Industry, State Department of Agriculture, Trenton 8
- New Mexico. Professor R. F. Crawford, Deputy Inspector, College of Agriculture and Mechanic Arts, State College
- New York. H. B. Little, Director, Bureau of Plant Industry, State Department of Agriculture and Markets, Albany 1
- North Carolina. Dr. C. H. Brannon, State Entomologist, State Department of Agriculture, Raleigh
- North Dakota. Dr. R. L. Post, Chairman, Department of Entomology, North Dakota Agricultural College, Fargo
- Ohio. John Baringer, Chief, Division of Plant Industry, State Department of Agriculture, Columbus 15
- Oklahoma. Clyde A. Bower, Director, Division of Entomology and Plant Industry, State Department of Agriculture, Oklahoma City 5
- Oregon. Frank McKennon, Chief, Division of Plant Industry, State Department of Agriculture, Agricultural Building, Salem
- Pennsylvania. Dr. T. L. Guyton, Director, Bureau of Plant Industry, State Department of Agriculture, Harrisburg
- Puerto Rico. Luis A. Catoni, Director Plant Quarantine Service, Department of Agriculture and Commerce, San Juan
- Rhode Island. Alvin J. Lannon, Administrator, Division of Entomology and Plant Industry, State Department of Agriculture and Conservation, State House, Providence 2
- South Carolina. J. A. Berly, Entomologist, State Crop Pest Commission, Clemson

South Dakota	Frank M. Tietge, Director of Division of Plant Industry, Department of Agriculture, Pierre
Tennessee	Howard L. Bruer, State Entomologist, Department of Agriculture, Nashville
Texas	Charles Chapman, Chief, Division of Plant Quarantine, State Department of Agriculture, Austin
Utah	Earl Hutchings, State Entomologist, State Department of Agriculture, Salt Lake City
Vermont	John W. Scott, State Nursery Inspector, State Department of Agriculture, Montpelier
Virginia	G. T. French, State Entomologist, State Department of Agriculture and Immigration, 1112 State Office Building, Richmond 19
Washington	William H. Shaw, Supervisor of Horticulture, State Department of Agriculture, Olympia
West Virginia	F. Waldo Craig, Entomologist, State Department of Agriculture, Charleston 5
Wisconsin	E. L. Chambers, State Entomologist, State Department of Agriculture, State Capitol, Madison 2
Wyoming	Martin Poynter, State Entomologist, State Department of Agriculture, Cheyenne

INTERSTATE SHIPMENT OF BARBERRY AND MAHONIA RESTRICTED

Federal Quarantine Number 38, on account of Black Stem Rust was amended by the Secretary of Agriculture to become effective February 11, 1950. Among the important changes in regulations are: (1) the elimination of the requirement to place a special permit tag on each package of barberry, mahonia, or mahoberberis shipped interstate; (2) shipments of seeds and fruits of approved species and varieties are required to have special permit tags attached when going into any of the eradication states.

The requirements of Federal Quarantine Number 38 are summarized as follows: (1) The eradication states are: Colorado, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Montana, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota, Virginia, Washington, West Virginia, Wisconsin, and Wyoming; (2) Barberry, mahonia, and mahoberberis, in any variety, can be shipped interstate (to any state) only under certificate issued by the Bureau of Entomology and Plant Quarantine; (3) Application for Federal certificate must be filed in duplicate, not later than May 15 each year, with the Bureau of Entomology and Plant Quarantine Division of Plant Disease Control, Washington 25. D. C.; (4) Only species and varieties known to be rust resistant and approved by the Bureau will be acceptable for certification. Species and varieties not known to be resistant to rust cannot be shipped interstate and growers who have such rust susceptible species will be required to destroy them before permits to ship approved varieties are granted; (5) The following species and varieties of barberry, mahonia, and mahoberberis are designated as rust resistant:

<u>Scientific Name</u>	<u>Common Name</u>
<u>Berberis arido-calida</u>	
B. <u>beaniana</u>	Bean's Barberry
B. <u>buxifolia</u>	Magellan Barberry
B. <u>buxifolia nana</u>	Dwarf Magellan Barberry
B. <u>calliantha</u>	-----
B. <u>candidula</u>	Paleleaf Barberry
B. <u>chenaulti</u>	Chenault Barberry
B. <u>circumserrata</u>	Cutleaf Barberry
B. <u>concinna</u>	Dainty Barberry
B. <u>darwini</u>	Darwin Barberry
B. <u>formosana</u>	-----
B. <u>franchetiana</u>	-----
B. <u>gagnepaini</u>	Black Barberry
B. <u>gilgiana</u>	Wildfire Barberry
B. <u>horvathi</u>	-----
B. <u>hybrido-gagnepaini</u>	False Black Barberry
B. <u>insignis</u>	-----
B. <u>julianae</u>	Wintergreen Barberry
B. <u>koreana</u>	Korean Barberry
B. <u>linearifolia</u> var. Orange King.....	Jasperbells Barberry
B. <u>lologensis</u>	-----
B. <u>mentorensis</u>	Mentor Barberry
B. <u>pallens</u>	Pallid Barberry
B. <u>potanini</u>	Longspine Barberry
B. <u>renton</u>	-----
B. <u>replicata</u>	Curlleaf Barberry
B. <u>sanguinea</u>	Red-pedicel Barberry
B. <u>sargentiana</u>	Sargent Barberry
B. <u>stenophylla</u>	Rosemary Barberry
B. <u>stenophylla diversifolia</u>	-----
B. <u>stenophylla irwini</u>	Irwin Barberry
B. <u>stenophylla nana compacta</u>	Corallina Barberry
B. <u>telomaica artisepala</u>	-----
B. <u>thunbergi</u> D. C.	Japanese Barberry
B. <u>thunbergi atropurpurea</u>	Redleaf Japanese Barberry
B. <u>thunbergi atropurea nana</u>	-----
B. <u>thunbergi erecta</u>	Truehedge Columnberry
B. <u>thunbergi "globe"</u>	-----
B. <u>thunbergi "golden"</u>	-----
B. <u>thunbergi maximowiczii</u>	Coral Japanese Barberry
B. <u>thunbergi minor</u>	Box Barberry
B. <u>thunbergi pluriflora</u>	Flame Barberry
B. <u>thunbergi "thornless"</u>	-----
B. <u>thunbergi "variegata"</u>	-----
B. <u>triacanthorhophora</u>	Threespine Barberry
B. <u>verruculosa</u>	Warty Barberry
B. <u>virgatorum</u>	-----
B. <u>xanthoxylon hort.</u>	-----
<u>Mahonia aquifolium</u>	<u>Oregongrape Mahonia</u>
M. <u>bealei</u>	Leatherleaf Mahonia
M. <u>compacta</u>	-----
M. <u>dictyota</u>	Netvein Mahonia
M. <u>fortunei</u>	Chinese Mahonia
M. <u>nervosa</u>	Cascades Mahonia
M. <u>pinnata</u>	Cluster Mahonia
M. <u>repens</u>	Creeping Mahonia

PLANT IMPORTATION

Under provisions of Federal Quarantine Number 37 certain limitations are placed upon the importation of plants and seeds from foreign countries. Anyone wishing to import nursery, stock, plants, or seeds must first obtain a permit from the Bureau of Entomology and Plant Quarantine, 209 River Street, Hoboken, New Jersey. In applying for a permit to import plant material the following information is required: (a) The name and location of the producer from whom the plants or seeds are to be secured; (b) the name and address of the person or firm to which the seeds or plants are to be shipped; (c) the number and genus of the plants or seeds for which the permit is desired.

All restricted plants imported under the conditions listed above are limited in size and age to the youngest and smallest which can be successfully freed from soil about their roots, transported to the United States, and established in this country with a reasonable degree of success. Certain classes of plants permitted entry under quarantine 37 are required to be grown by the importer under post entry inspection regulations. Such plants are not released to the trade until such time as their freedom from plant diseases and insect pests has been established. The plants are therefore grown for one or more years in a place where the state inspector may have access to them for inspection purposes, for such time as appears necessary. When their freedom from pests and diseases has been established, the plants under quarantine are released.

OAK WILT

A comparatively new disease, oak wilt (*Whalara quercina* Henry), is threatening all oaks in the midwest. The disease is caused by a fungus organism that can be identified by plant pathologists in one-to-two-year old vascular tissue from infected trees.

Varieties of the red and black groups seem to become infected with oak wilt more readily than white and burr oaks, although all species and varieties of oaks are susceptible to the disease.

The first symptoms in the red and black oaks are shown by the appearance of leaves on the upper branches. They show dull light green color and curl upward. Later the leaves may turn yellow or reddish brown before falling. All leaves may fall within a month after first symptoms occur. In white and burr oaks the disease develops more slowly, with one or more branches near the top showing disease symptoms first.

Spread of the disease from diseased to healthy trees within native stands of oaks can occur through natural root grafts or unions. It is not known to plant pathologists how the disease is spread from one locality to another.

Oak wilt is known to occur in Arkansas, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, Ohio, Pennsylvania, and Wisconsin. Nurserymen, foresters, and all others interested in pre-

venting the loss of oaks should be on the alert for this trouble. Samples of twigs from oaks showing symptoms of the disease should be sent to the National Oak Wilt Research Committee, P. O. Box 373, Memphis, Tennessee.

Six twigs or branches about 6 to 8 inches long and 1/2 to 1 inch in diameter are best for laboratory examination. The twigs should be alive or just recently dead but not completely dry. Do not send leaves, dead branches or decayed wood. The twigs should be tied in a bundle, wrapped in paper so as to prevent excessive drying but should not be wrapped in wet moss or cotton. Labels should be attached in such a manner as to couple the laboratory report with the tree from which the twigs were taken.

One oak tree infected with oak wilt disease was found in Greenup county, Kentucky, during the summer of 1951. The diseased tree was destroyed, in approved manner, in order to prevent spread of trouble to healthy trees.

JAPANESE BEETLE

Inspection and trapping activities were continued during the summer of 1953 in a special effort to find the exact limits of the beetle infested areas in the counties of Jefferson, Greenup, Kenton and Campbell. The Jefferson county infested area was found to involve a few additional city blocks east of Logan street between Broadway and Winter streets. In Greenup county the beetles were found over the same area as the previous year with a few more beetles in the vacant lots in the town of Worthington and less in the town of Russell. The Kenton-Campbell county area had showed little increase over 1952 and consisted primarily of isolated spots involving a few city blocks each.

Two DDT foliage sprays were applied to all infested areas in the above four counties. The sprays were applied at about ten day intervals, starting the last week in June and ending the third week in July. In addition to the foliage sprays the infested areas in Jefferson, Kenton and Campbell counties were treated with a surface-soil application of DDT. It was not found practical to apply soil treatment to the area in Greenup, county.

WHITE-FRINGED BEETLE

Survey type inspections were continued in Kentucky during the summer of 1953 to determine if white-fringed beetles had become established. No beetles were found. This work was done by inspectors from the Plant Pest Control Branch, Agricultural Research Service, U. S. D. A. in cooperation with the State Entomologist.

The three counties in Tennessee, known to have established infestations of white-fringed beetles, have received applications of insecticides

to all known infested areas. There are reports from Hamilton county and Tipton county, Tennessee indicating that white-fringed beetles have been eradicated from these two counties. Shelby county supports the largest infested area known in Tennessee but suppressive work has shown some encouraging results from the standpoint of control.

Portions of Huston county, Alabama; Attala, Clarke, Jasper and Leake counties, Mississippi; and Beaufort county, South Carolina are included in the regulated area of Federal Quarantine No. 72 for the first time effective February 1, 1954. Some additional territory, adjoining presently regulated areas, come under regulation in the six states which support infestations of white-fringed beetles, namely; Alabama, Florida, Georgia, Mississippi, North Carolina and South Carolina.

ELM PHLOEM NECROSIS AND DUTCH ELM DISEASE

Elm phloem necrosis and Dutch elm disease has been found to occur in the state of Kentucky. Elm phloem necrosis has been by far the most destructive disease of elms yet known to Kentucky forests and landscape plantings. Dutch elm disease has been found in only a small number of elms in northern Kentucky, near Cincinnati, Ohio. Although no cure is known for these maladies, measures can be taken to protect healthy trees from infection.

Dutch elm disease or phloem necrosis should be suspected whenever elm foliage suddenly wilts and the dry, dead leaves adhere to the branches; or when the leaves of an entire branch, or the top, turn yellow and fall prematurely. To further identify the diseases, cut through the bark at ground level, or below, and pry the bark from the wood so the inner bark will show. If the inner bark surface is yellow or like butterscotch in color, phloem necrosis is indicated. If a portion of the inner bark is confined in a bottle or the closed hands for a few minutes a faint odor of wintergreen can be detected from phloem necrosis diseased bark.

To test for Dutch elm disease remove several small branches with wilted, yellow, or dying leaves. If the cross sections, where cuts are made, show several brown spots or discolorations in one or more annual rings of wood, the trouble is probably Dutch elm disease. For a positive identification cut four or five branches 1/2 inch in diameter and about six inches long, which contain discoloration of the annual rings. Wrap these specimens in wax paper to prevent drying, and mail, with a letter giving the senders name, address, and location of tree, to the Dutch Elm Disease Identification Laboratory, Bureau of Entomology and Plant Quarantine, 503 Main Street, East Orange, New Jersey.

Both diseases are spread by insects. Elm phloem necrosis is spread by a leafhopper (Scaphoidens luteolus). Dutch elm disease is spread by elm bark beetles, principally the smaller European elm bark beetle (Scolytus multistriatus).

Prevention of spread of these diseases to healthy trees is based upon the control of insect carriers. This can be accomplished by sprays containing DDT, provided they are correctly formulated, properly applied, and used at the right time. To control the carrier of elm phloem necrosis it is necessary to spray, thoroughly, all leaf surfaces. The first spray should be applied when elm leaves are full grown, usually May 15 to June 1 in Kentucky. The second spray should be applied when the new growth appears, usually one to two months later. Use formula A or B as given below, for both sprays, and dilute to make 200 gallons.

To control the insect which carries Dutch elm disease it is necessary to spray thoroughly all bark surfaces of the trees to be protected. Apply the first spray before the appearance of elm flowers or leaves. This period is usually the latter part of March for Kentucky. A second spray should be applied from 2 1/2 to 3 months after the first treatment. For first treatment use formula A or B diluted to make 100 gallons. If a mist blower is employed use formula C diluted to make 20 gallons. For second treatment use either formula at one half strength recommended for first treatment.

Formula A - Dissolve 16 pounds of technical DDT in a mixture of 2 1/2 gallons of Benzene and one gallon of Velsicol AR - 50. To this solution add 1 pint of Triton X - 100.

Formula B - Dissolve 16 pounds of technical DDT in 4 gallons of Xylene. To this add 1 pint of Triton X - 100.

Formula C - Dissolve 20 pounds of technical DDT in a mixture of 5 gallons of Xylene and 2 1/2 gallons of Acme white oil. To this solution add 1 1/2 pints of Triton X - 100.

If red spiders or spider mites build up to damaging populations, which will sometimes be the case after repeated treatments with DDT add 1/2 gallon of Acme white oil to each 100 gallons of formula A or B for foliage treatment.

EUROPEAN CHAFER (AMPHIMALLON MAJALIS, RAZOUM)

European chafer is another of the recently introduced insect pests of special concern to nurserymen. It is destructive in the larval stage only and the damage is done by the grubs, feeding on the roots of plants. The feeding is so similar to that of our ordinary white grubs and of Japanese beetle grubs that the problem of identification is difficult.

Inspection of Nursery Stock, 1953-54

Attention was called to some rather severe turf injury in sections of Newark, New Jersey in the spring of 1940. It was not until the spring of 1942 that positive identification was made of the species and this constitutes the first authentic record of the occurrence of the species in North America. The European Chafer, is known to occur in several countries on the continent of Europe, and is reported to be especially destructive in some areas.

Since 1942 scouting work has been carried on by New York state agencies and the Bureau of Entomology and Plant Quarantine to determine the extent of the infested area. To date (February 1951) the only known infested area is in Wayne, Ontario, and Monroe Counties in New York state. The infested area in 1950 covered about 485 square miles.

Quarantine restrictions and soil treating requirements for nurseries infested with European chafer are similar to those infested with Japanese beetle or white-fringed beetle.

INSPECTION REQUIREMENTS FOR CERTAIN CLASSES OF NURSERY MATERIAL

Gladiolus Corms

Two inspections are required for certification of gladiolus corms. The first inspection is made during the blooming and the second inspection during storage after the corms have been cleaned.

Sweetpotato Plants

Some state laws establish the requirements that sweetpotato plants should be free from black rot, stem rot, and sweetpotato weevil before they are shipped into the respective states. Only sweet potatoes which are certified as free from sweetpotato weevil should be bedded. A request for inspection service should be sent to the State Entomologist in advance of bedding time, giving approximate date of bedding and drawing of first plants.

Native or Collected Plants

There seems to be a growing demand for certain native or collected plants. Where it is desired to offer for sale this type of plant material the plants should be collected and "lined out" or "heeled in" and held for inspection. Notice should be forwarded to the State Entomologist giving the date when the plants will be ready for inspection and the location of the plant yard.

For general inspection requirements see "Summary of requirements of Kentucky Nursery Inspection Law" and "Nursery Stock" defined on previous pages.

Voluntary Certification

Plant certification requirements are not uniform throughout the forty-eight states. Some states require the inspection of greenhouse plants, bulbs, corms, rhizomes, and tubers, annual flowering plants, and garden vegetable plants, Kentucky does not require inspection on any of these plants or materials. Dealers can merchandise this material, under the provisions of the Kentucky Nursery law, without registering or obtaining a state permit. A grower, of any of the above mentioned plants, who wishes to ship to other states or who wishes to have inspection and certification for any other reason can have inspection in the usual manner, by applying to the State Entomologist. As in the case of required inspection, a fee of \$5.00 is charged for voluntary inspection.

Strawberry Plants

Growers wishing to offer strawberry plants for sale should take into account the dual inspection requirements. Notice should be given to the State Entomologist by the Middle of April if inspection services are desired. The first inspection of strawberry plants is made during the blooming season, and the second inspection during late summer or early fall.

Raspberry Plants

Two inspections are required for certification of raspberry plants. These inspections are made during summer months and must be at least thirty days apart. Raspberry plant growers wishing inspection services should notify the State Entomologist by June first.

KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF
INSPECTION, 1953-54

<u>NAME</u>	<u>ADDRESS</u>	<u>ACREAGE</u>	<u>KIND OF STOCK</u>
Alberts Orchid Company	Louisville		Orchids
Ammon Nursery	Florence	2 acres	Ornamental
Arrow-Wood Nursery			
W. C. O'Conner	Warsaw	5 acres	Ornamental
Arterburn, Paul Nursery			
Mrs. Paul Arterburn	St. Matthews	5 acres	Ornamental
Barnett's Nursery	Murray	1 acre	Ornamental
Bellfonte Nursery	Ashland	12 acres	Ornamental
Blue Gables			
Roy Medaria	Carrollton	1 acre	Ornamental
Blue Star Nursery	Carlisle	5 acres	Ornamental
Ceatham, Mrs. Tracie	Danville	1/4 acre	Perennials
Cherry Florist	Paducah		Greenhouse
Chick's Nursery	Marion	1 acre	Ornamental
Chowning, Kelly T.	Lexington	1 acre	General
Clay Nursery	Clay	15 acres	Ornamental
Crume Nursery and Land- scape - T. C. Crume	Florence	35 acres	General
Curry, J. C.	Hawesville		Strawberries
Dieterich, C. P. and Bro.	Maysville	1/2 acre	Ornamental
Dixie View Nurseries			
A. L. Heger	Covington	50 acres	General
Donaldson Nursery	Sparta	5 acres	General
Dressman, J. A.	Covington		Bulbs
Durrett, Lydean	Louisville	1 acre	Ornamental
England, A. G.	Louisville	1 acre	Ornamental
Fike Nurseries			
Joe Fike	Hopkinsville	60 acres	General
Florence Nursery	Florence	2 acres	Ornamental
Gardiner, Boone Nurseries			
Dan Gardiner	Louisville	20 acres	General
Gramse Nursery	Paducah	5 acres	General
Haag Nurseries	Jeffersontown	15 acres	General
Harville, A. M. Florist	Princeton	2 acres	Ornamental
Higdon Nursery	Mayfield	3 acres	Ornamental
Highbaugh Farms	St. Matthews	7 acres	General
Hillenmeyer Nurseries	Lexington	275 acres	General
Hill's Nursery	Warsaw	35 acres	General
Humphrey's Landscape Service	Mt. Sterling	15 acres	General
Johnston, Allie	Benton	5 acres	General
Klein Nursery and Floral Company	Crestwood	30 acres	General
Korfhage Nursery and Florist	Louisville	10 acres	General
Leeming Nursery	Shively	5 acres	General
Leichhardt Nursery			
Mitchell Leichhardt	Bowling Green	12 acres	General

<u>NAME</u>	<u>ADDRESS</u>	<u>ACREAGE</u>	<u>KIND OF STOCK</u>
Martin's Nursery	Carrollton	35 acres	General
McCabe's Nursery	Lyndon	3 acres	Ornamental
Metcalf Wholesale Florist	Hopkinsville		Greenhouse
Minish and Potts Florist	Crestwood	3 acres	Ornamental
Mink's Nursery	London	5 acres	Ornamental
Montieth, Everett	Hebron	1/2 acre	Ornamental
Mt. Pleasant Gardens	Ft. Thomas	10 acres	General
Nick's Nursery	Anchorage	25 acres	Ornamental
Otte, Clarence Nursery	Louisville	2 acres	Ornamental
Overfield, E. L.	Robards	2 acres	Ornamental
Pack, H. V.	Carter	1/4 acre	Ornamental
Painter-Schevetto Nursery	Anchorage	5 acres	Ornamental
Pamona Nurseries	Bowling Green	2 acres	General
Parsons, D. L.	Catlettsburg		
Ray, Carl Company	St. Matthews	15 acres	General
Ray, W. E.	Bowling Green		African Violets
Reynolds Nursery	Bondville	15 acres	General
Rottgering Greenhouse	Paducah	5 acres	General
Sandefur, W. A.	Robards	5 acres	Ornamental
Sanders Bros. Nursery	Paducah	30 acres	General
Schmaus, Roy Nursery	Benton	4 acres	Ornamental
Schneidman Greenhouses	Paducah	10 acres	Ornamental
Shupe Nursery	Sedalia	2 acres	Ornamental
Singer Gardens	Stamping Ground	5 acres	General
Smits Greenhouse	Paris		Greenhouse
Spring Hill Nursery	Ashland	7 acres	General
Taylor, Truman	Waynesburg	1/2 acre	Strawberry
Veeley's Nursery	Louisville	3 acres	Ornamental
Walker-Kingsley Company	Louisville	2 acres	Ornamental
Wallitsch, Herman T.	Louisville	7 acres	Ornamental
Watkins, Leroy Nursery	Owensboro	3 acres	Ornamental
Wettstain, H. C.	Lewisport		Strawberries
Wheeler's Nursery	Owensboro	5 acres	Ornamental
Wilder, Robert G.	Louisville	2 acres	Ornamental
Wildwood Nursery	Ashland	1 acre	Ornamental
Willadean Nurseries	Sparta	60 acres	General
Wuerdman, John	Ashland	1 acre	Ornamental

NURSERY DEALERS

Albers Super Markets, Inc.	Covington
Albers Super Markets, Inc.	Erlanger
Albers Super Markets, Inc.	Latonia
Albers Super Markets, Inc.	Newport
Albers Super Markets, Inc.	Ft. Thomas
Alexander Landscape Service	Campbellsville
Bailey, Robert	Mt. Sterling
Bezold, Anthony	Newport
Bickers, Arnold	Lexington
Bob's Market	Elizabethtown
Bunton Seed Company	Louisville
Byers and Franklin	Lexington
Carpenter, James C.	Anchorage
Chapman, J. T.	Tyler, Texas
Check-R-Board	Louisville
Cole, Julian B.	Henderson
Cowherd, C. C.	Elkton
Crawley, Calvin	Lexington
Davis, Paul M.	Rose Hill, Va.
Driskell, William E.	Lawrenceburg
Evans, Herndon J.	Pineville
Ferguson, Mrs. Emogene	Louisa
Fields, R. G.	Lexington
Foster Nursery Warehouse	Akron, Ohio
Foster, W. P.	Chicago, Ill
Furnish, Ray	Ft. Thomas
Garden Supply Club	Harrodsburg
Gordon, Fred L.	Louisville
Grant, W. T. Company	Louisville
Green's Garden and Flower Shop	Covington
Green, H. L. Company	Louisville
Haley, Grover C.	Milford
Haupt, Fred Florist	Louisville
Heil, A. J. and Son	Louisville
Hill, Geo. D.	Drayfus
Hill, Geo. W. Company	Covington
Howard, Marcia	Paintsville
Karcher, Theodore B.	Louisville
Klopp, Maurice M.	Cincinnati, Ohio
Kresge, S. S. Company	Paducah
Kresge, S. S. Company	Louisville
Kresge, S. S. Company	Lexington
Kresge, S. S. Company	Covington
Kresge, S. S. Company	Newport
Kresge, S. S. Company	Owensboro
Kress, S. H.	Hopkinsville
Kress, S. H.	Ashland
Kress, S. H.	Winchester
Kroger Company	Maysville
Kroger Company	Cynthiana
Kroger Company	Carlisle

Kroger Company	Williamstown
Kroger Company	Flemingsburg
Kroger Company	Newport
Kroger Company	Ludlow
Kroger Company	Dayton
Kroger Company	Ft. Thomas
Kroger Company	Elsmere
Kroger Company	Mayfield
Kroger Company	Morganfield
Kroger Company	Marion
Kroger Company	Sturgis
Kroger Company	Benton
Kroger Company	Bardwell
Kroger Company	Clinton
Kroger Company	Paducah
Kroger Company	Murray
Kroger Company	Cincinnati, Ohio
Kroger Company	Pikeville
Kroger Company	Paintsville
Kroger Company	Ashland
Kroger Company	Louisville
Kroger Company	Shelbyville
Kroger Company	Owenton
Kroger Company	Carrollton
Kroger Company	La Grange
Kroger Company	Springfield
Kroger Company	Columbia
Kroger Company	Owensboro
Kroger Company	Hardinsburg
Kroger Company	Bardstown
Kroger Company	Elizabethtown
Kroger Company	Campbellsville
Kroger Company	Lebanon
Kroger Company	Lawrenceburg
Kroger Company	Stanford
Kroger Company	Corbin
Kroger Company	Danville
Kroger Company	Somerset
Kroger Company	Pineville
Kroger Company	Barbourville
Kroger Company	Frankfort
Kroger Company	London
Kroger Company	Middlesboro
Kroger Company	Harrodsburg
Kroger Company	Harlan
Kroger Company	Owingsville
Kroger Company	Lexington
Kroger Company	Irvine
Kroger Company	Paris
Kroger Company	Winchester
Kroger Company	Richmond
Kroger Company	Mt. Sterling
Kroger Company	Versailles

Kroger Company	Nicholasville
Kroger Company	Georgetown
Kroger Company	Winchester
Krotzki Farm Produce	Louisville
Lose Brothers	Louisville
Lyle, Frank	Lexington
McCowan, George E.	Junction City
McCrary Stores Corp.	Louisville
Michler, Charles	Lexington
Miles, H. C.	Pewee Valley
Morrow, J. T.	Bowling Green
Murphy, G. C. Company	Ashland
Murphy, G. C. Company	Maysville
Murphy, G. C. Company	Pikeville
Murphy, G. C. Company	Paintsville
Newberry, J. J. Company	Owensboro
Newberry, J. J. Company	Henderson
Newberry, J. J. Company	Frankfort
Newberry, J. J. Company	Pineville
Newberry, J. J. Company	Richmond
Newberry, J. J. Company	Elizabethtown
Newberry, J. J. Company	Glasgow
Newberry, J. J. Company	Cynthiana
Newberry, J. J. Company	Somerset
Newberry, J. J. Company	Shelbyville
Newberry, J. J. Company	Versailles
Newberry, J. J. Company	Bardstown
Newberry, J. J. Company	Mayfield
Newberry, J. J. Company	Mt. Sterling
Newberry, J. J. Company	Paris
Newberry, J. J. Company	Winchester
Newberry, J. J. Company	Harlan
Newberry, J. J. Company	Hazard
Newberry, J. J. Company	Danville
Newberry, J. J. Company	Louisville
Newberry, J. J. Company	Corbin
Newberry, J. J. Company	Lawrenceburg
Newberry, J. J. Company	Harrodsburg
Nickles, Charles E.	Frankfort
Organic Soil Sales.	Louisville
Patton, W. D.	Morehead
Ostrander, John O.	Louisville
Reid, Fred	Meridian, Miss.
Renfrow, H. E.	Beaver Dam
Riesenberg, Anthony J.	Ft. Thomas
Riesenberg, Stephen G.	Latonia
Salyers, Buford	Frankfort
Scott and Son	Owensboro
Scott-Burr Corporation	Middlesboro
Scott-Burr Corporation	Hazard
Scott-Burr Corporation	Harlan
Sears, Roebuck and Company.	Covington
Sears, Roebuck and Company.	Lexington

Sears, Roebuck and Company	Louisville
Sears, Roebuck and Company	Owensboro
Snow Hill Florist	Shelbyville
Ben Snyder	Louisville
Somerset Floral Company	Somerset
Steiden Super Market	Louisville
Steiden Super Market	Frankfort
Steiden Super Market	Lexington
Steiden Super Market	Fort Knox
Stoke, Louis, Jr.	Louisville
Stop'n Shop Super Market	Kevil
Tupelo Landscape Company	Tupelo, Miss.
Vans Five and Ten Store	Shelbyville
Wells Brothers	Lexington
Woolworth, F. W., Company	Paducah
Woolworth, F. W., Company	Owensboro
Woolworth, F. W., Company	Henderson
Woolworth, F. W., Company	Bowling Green
Woolworth, F. W., Company	Hopkinsville
Woolworth, F. W., Company	Mayfield
Woolworth, F. W., Company	Madisonville
Woolworth, F. W., Company	Louisville
Woolworth, F. W., Company	Lexington
Woolworth, F. W., Company	Covington
Woolworth, F. W., Company	Newport
Woolworth, F. W., Company	Frankfort
Woolworth, F. W., Company	St. Matthews
Woolworth, F. W., Company	Richmond
Woolworth, F. W., Company	Danville
Woolworth, F. W., Company	Ashland
Woolworth, F. W., Company	Maysville

SUMMARY OF NURSERY INSPECTION - 1953-54

Inspections of growing stock	75
Inspections of fruit stock only	4
Inspections of bulbs, perennials, etc	4
Inspections of greenhouses	3
Acres of growing stock	922.5
Acres of fruit stock only	3
Acres of bulbs, perennial, etc	7
Kentucky growers certificates issued	77
Nonresident nurserymen's licenses issued	357
Nursery stock dealer's permits issued	187
Nonresident nursery agent's permits issued	76
Miles traveled by inspector	16,782
Number of counties visited	120

Quarterly Report on Feed Samples

ANALYSIS OF NON-PROTEIN NITROGEN FROM UREA IN FEEDS

Manufacturer, Brand and Remarks

	Non-Protein Nitrogen	
	Guaranteed	Found
Allied Mills, Chicago, Illinois		
Sugarine 16% Dairy Feed	5.00	3.60
Sugarine 16% Dairy Feed	5.00	4.20
Wayne Roughage Supplement "A"	10.00	9.10
Wayne Roughage Supplement "A"	10.00	7.70
Apex Milling Company, Toledo, Ohio		
Apex White Brand 24% Dairy Feed	8.00	8.60
Apex White Tag 16% Dairy Feed	5.24	4.80
Apex 16% Dairy Feed	5.33	7.60
Aubrey and Company, Louisville, Kentucky		
Red A 32% Dairy Supplement	10.48	10.70
Red A 32% Dairy Supplement	10.48	9.40
Red A 32% Dairy Supplement	10.48	9.00
Red A 24% Dairy Feed	7.86	7.10
Red A 24% Dairy Feed	7.86	6.40
Red A 24% Dairy Feed	7.86	6.20
Red A 24% Dairy Feed	7.86	6.80
Red A 20% Dairy Feed	6.55	5.80
Red A 18% Dairy Feed	5.24	4.90
Red A 18% Dairy Feed	5.24	5.10
Red A 18% Dairy Feed	5.24	0.40
Red A Steer Concentrate	7.86	9.40
Red A 16% Sheep Feed	3.95	3.60
Red A 16% Sheep Feed	3.95	0.96
Beaver Dam Milling Company, Beaver Dam, Kentucky		
Eureka 24% Dairy Feed (with urea)	8.00	6.40
Eureka 16% Dairy Feed	5.24	4.00
Eureka 16% Dairy Feed (with urea)	5.24	4.30
Eureka 16% Dairy Feed (with urea)	5.24	4.50
16% Sweet Miss Dairy Feed	5.24	4.60
16% Sweet Miss Dairy Feed	5.24	5.50

For protein, fat and fiber analysis of the above samples, see report of Official Feed Samples analyzed in the pages that follows.

ANALYSIS OF NON-PROTEIN NITROGEN FROM UREA IN FEEDS (Cont'd)

	Non-Protein Nitrogen	
	Guaranteed	Found
Big Four Mills, Covington, Kentucky		
O. K. 24% Dairy Feed	6.03	4.10
Kentucky Hi-Lo 24% Dairy Feed	6.03	5.70
Kentucky Hi-Lo 24% Dairy Feed	6.03	5.70
O. K. 16% Dairy Feed	2.62	3.50
O. K. 16% Dairy Feed	2.62	3.40
O. K. 16% Dairy Feed	2.62	2.80
O. K, 16% Dairy Feed	2.62	3.90
Buhner and Company, Louisville, Kentucky		
Magnolia 24% Dairy Feed	8.00	7.40
Magnolia 16% Dairy Feed	4.00	2.30
Magnolia White 16% Dairy Feed	4.00	1.20
Chestnut and Anderson Feed Mill Company, Hopkinsville, Kentucky		
Little River Roughage Beef Supplement "A"	9.30	9.90
Clinton Milling Company, Clinton, Kentucky		
Sun-Ray 24% Dairy Feed	7.86	8.60
Climco 16% Dairy Feed	5.24	4.20
Cooperative Mills, Inc. Cincinnati, Ohio		
16% Utility Dairy	3.00	3.00
16% Utility Dairy	3.00	2.90
Beef Supplement	8.00	8.40
Beef Supplement	8.00	8.50
Beef Supplement	8.00	8.10
Dearborn Mills, Aurora, Indiana		
Dearborn Special 32% Dairy	8.00	1.70
Dearborn Sweet 24% Dairy	6.60	1.80
Dearborn Sweet 24% Dairy	6.60	6.80
Dearborn Sweet 16% Dairy	6.00	5.00
Dearborn Special 16% Dairy	2.62	3.10
Early and Daniel Company, Cincinnati, Ohio		
Tuxedo Special 24% Dairy Feed	6.00	5.70
Eadan 24% Dairy Feed	6.00	5.40
Tuxedo 16% Dairy Feed	4.00	3.90
Tuxedo 16% Dairy Feed	4.00	3.80
Tuxedo 16% Dairy Feed	4.00	4.10
Tux-Sweet Rolls 45% Ground Mixed Screenings, etc.	2.62	2.10
John W. Eshelman and Son, Lancaster, Pennsylvania		
Kentucky Challenge 24% Dairy Feed	7.86	4.10

For protein, fat and fiber analysis of the above samples, see report of Official Feed Samples analyzed in the pages that follows.

Quarterly Report on Feed Samples

ANALYSIS OF NON-PROTEIN NITROGEN FROM UREA IN FEEDS (Cont'd)

Manufacturer, Brand and Remarks

	Non-Protein Nitrogen	
	Guaranteed	Found
Famous Feed Mill, Nashville, Tennessee		
Golden Gain 16% Dairy Feed	5.24	2.10
Farmers Elevators, Owensboro, Kentucky		
Feeders Friend 16% Dairy Feed	5.24	4.30
Feeders Friend 30% Steer Supplement A	7.00	5.70
Ferncliff Feed and Grain Company, Louisville, Kentucky		
Ferncliff 24% Dairy Feed	7.86	<u>8.40</u>
Franklin Wholesale Company, Ashland, Kentucky		
Honey Dew 16% Dairy Feed	2.62	<u>3.80</u>
Honey Dew 16% Dairy Feed	2.62	<u>3.20</u>
Henry Fruechtenicht Company, Louisville, Kentucky		
Blue Grass 24% Dairy Feed	6.60	2.60
Producer 24% Dairy Feed	6.10	0.40
Producer 24% Dairy Feed	6.10	1.40
Producer 24% Dairy Feed	7.20	4.40
Blue Grass 20% Dairy Feed	6.60	0.40
Producer 16% Dairy Feed	5.24	4.90
Producer 16% Dairy Feed	5.24	0.40
Producer 16% Dairy Feed	5.24	0.60
Producer 16% Dairy Feed	5.24	0.40
Garden Street Mill and Elevator, Louisville, Kentucky		
Garden 24% Dairy Feed	7.86	7.60
Garden 20% Dairy Feed	6.65	7.30
Garden 20% Dairy Feed	6.65	<u>7.10</u>
Garden Special 16% Dairy Feed	2.62	2.30
Garden Special 16% Dairy Feed	2.62	2.60
Garden Special 16% Dairy Feed	2.62	2.60
Garden Special 16% Dairy Feed	2.62	2.30
Garden Special 16% Dairy Feed	2.62	2.70
Edward F. Goeke Sons, Evansville, Indiana		
Goeke's 16% Dairy Feed	5.24	5.60
Gwinn Milling Company, Huntington, West Virginia		
Sweet Acre 24% Dairy Feed	8.00	8.40
Gwinn's Tip Top 24% Dairy Feed	8.00	8.20
Gwinn's Merit 24% Dairy Feed	8.00	7.40
Gwinn's Merit 24% Dairy Feed	8.00	7.70
Banner 24% Dairy Feed	7.86	7.90

For protein, fat and fiber analysis of the above samples, see report of Official Feed Samples analyzed in the pages that follows.

ANALYSIS OF NON-PROTEIN NITROGEN FROM UREA IN FEEDS (Cont'd)

Manufacturer, Brand and Remarks

	Non-Protein Nitrogen	
	Guaranteed	Found
Hancock and Franklin Mill, Louisville, Kentucky Arrow 16% Dairy Feed	5.24	0.40
The P. H. Harsha Milling Company, Portsmouth, Ohio Harsha's Dixie Sweet 24% Dairy Feed	7.86	8.50
Harsha's Dixie Sweet 16% Dairy Feed	5.30	3.80
Edwin C. Hawkins, Paducah, Kentucky Record 16% Dairy Feed	5.24	4.70
Hayden Mill and Grain Company, Springfield, Kentucky Magic 24% Dairy Feed	7.87	8.90
Dr. Heinz Company, Washington C. H., Ohio Heinz Nu-Way 16% Dairy Feed	5.50	5.80
Home Milling Company, Greenville, Kentucky Happy Home 24% Dairy Feed	7.90	5.80
Happy Home 16% Dairy Feed	5.24	6.30
Happy Home 16% Dairy Feed	5.24	4.90
Happy Home 16% Dairy Feed	5.24	5.20
Lexington Roller Mills, Lexington, Kentucky Thoroughbred 24% Sweet Dairy Feed	5.25	4.80
Thoroughbred 24% Sweet Dairy Feed	5.25	3.70
Thoroughbred 24% Sweet Dairy Feed	5.25	1.60
Thoroughbred 24% Sweet Dairy Feed	5.25	1.60
Sweet Sue 24% Dairy Feed	7.87	5.90
Sweet Sue 24% Dairy Feed	7.87	5.10
Thoroughbred 20% Sweet Dairy Feed	2.62	2.90
Lewisburg Roller Mills, Lewisburg, Kentucky Milk Maid Sweet Dairy 16%	4.66	3.10
Markin Feed Company, Ironton, Ohio Markin Special 16% Dairy Feed	2.62	2.80
Mero Mills, Nashville, Tennessee Dutch Maid 16% Dairy Feed	4.00	2.20

For protein, fat and fiber analysis of the above samples, see report of Official Feed Samples analyzed in the pages that follows.

Quarterly Report on Feed Samples

ANALYSIS OF NON-PROTEIN NITROGEN FROM UREA IN FEEDS (Cont'd)

Manufacturer, Brand and Remarks

Manufacturer, Brand and Remarks	Non-Protein Nitrogen	
	Guaranteed	Found
Myers and Clark Company, Ashland, Kentucky		
Ideal 24% Dairy Feed	5.90	5.30
Ideal 24% Dairy Feed	5.90	4.60
Ideal 24% Dairy Feed	5.90	5.70
Special 24% Dairy Feed	6.03	4.50
Chas. Nunn and Sons Milling Company, Evansville, Indiana		
Banner Sweet 16% Dairy Feed	5.24	4.20
Owensboro Milling Company, Owensboro, Kentucky		
Star 16-1/2% Dairy Feed	5.24	5.50
Sugar Lassie Dairy Feed 16%	5.24	5.50
Sugar Lassie Dairy Feed 16%	5.24	5.40
Tur Test 32% Beef Cattle Supplement	10.48	9.80
Pan American Mills, Bowling Green, Kentucky		
Green Valley 20% Dairy Feed	2.18	0.50
Green Valley 20% Dairy Feed	2.18	4.30
Bell Ringer 16% Dairy Feed	3.79	<u>4.80</u>
Bell Ringer 16% Dairy Feed	3.79	<u>5.20</u>
Bell Ringer 16% Dairy Feed	3.79	<u>4.90</u>
Pillsbury Mills, Inc. Louisville, Kentucky		
Pillsbury's Best 32% Dairy Concentrate	10.48	8.00
Pillsbury's Best 32% Dairy Concentrate	10.48	10.30
Pillsbury's Best 32% Dairy Concentrate	10.48	<u>11.90</u>
Ballard's 24% Dairy Feed	5.24	.50
Pillsbury's Champion 24% Milk Producer	5.24	4.90
Pillsbury's Champion 24% Milk Producer	5.24	3.90
Pillsbury's Champion 24% Milk Producer	5.24	5.20
Pillsbury's Champion 24% Milk Producer	5.24	5.50
Insurance 24% Dairy Feed	5.24	<u>5.90</u>
Pillsbury's Champion 20% Milk Producer	5.24	<u>5.20</u>
Pillsbury's Champion 20% Milk Producer	5.24	4.50
Insurance 20% Milk Producer	5.24	5.40
Pillsbury's Champion 16% Milk Producer	3.90	3.80
Pillsbury's Champion 16% Milk Producer	3.90	3.90
Dutch Maid 16% Dairy Feed	4.00	<u>4.70</u>
Dutch Maid 16% Dairy Feed	4.00	<u>4.10</u>
Dutch Maid 16% Dairy Feed	4.00	4.00
Balco 16% Dairy Feed	4.00	3.90
Pillsbury's Best Cattle Feed Concentrate	5.24	5.70

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ANALYSIS OF NON-PROTEIN NITROGEN FROM UREA IN FEEDS (Cont'd)

Manufacturer, Brand and Remarks

	Non-Protein Nitrogen	
	Guaranteed	Found
Provico Feeds and Concentrates, Cincinnati, Ohio Provico 24% Big V Dairy Feed	6.60	5.80
Ralston Purina Company, St. Louis, Missouri Purina Cow Chow 32% Protein and Mineral Concentrate	8.75	7.90
Purina Cow Chow 32% Protein and Mineral Concentrate	8.75	7.10
Purina Cow Chow 32% Protein and Mineral Concentrate	8.75	8.30
Purina Range Checkers A	5.50	0.50
Purina Steer Fatena - K	5.50	0.00
Purina Steer Fatena (Corn Belt)	8.75	4.10
Renfro Supply Company, Williamsburg, Kentucky Renfro 24% Dairy Feed	6.10	3.80
Robinson Milling Company, Somerset, Kentucky Green Valley 24% Dairy Feed	8.00	3.80
Sun-Ray Special 20% Dairy Feed	6.70	6.20
Happy Home 16% Sweet Dairy Feed	5.24	5.10
Happy Home 16% Sweet Dairy Feed	5.24	6.90
Staley Milling Company, Kansas City, Missouri Karmel's "B" Meal for Cattle	7.33	6.10
Standard Mills, Huntington, West Virginia Rainbow 24% Dairy Feed	8.00	7.90
Standard Feed Milling Company, Atlanta, Georgia Ky-Brand 16% Dairy Feed	4.00	4.20
Sun-Ray Feed Mills, Bowling Green, Kentucky Sun-Ray 24% Dairy Feed	5.80	3.50
Sun-Ray 24% Dairy Feed	5.80	6.00
Green Valley 16% Dairy Feed	3.67	2.50

For protein, fat and fiber analysis of the above samples, see report of Official Feed Samples analyzed in the pages that follows.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
HENRY FRUECHTENICHT COMPANY, LOUISVILLE, KENTUCKY						
Producer Scratch Feed	8.0	9.9	2.5	2.5	3.0	2.1
Blue Grass 33% Dairy Concentrate	33.0	34.5	2.0	2.5	8.0	7.5
Blue Grass 24% Dairy Feed	24.0	24.7	3.0	2.8	9.0	7.0
Producer 24% Protein Dairy Feed	24.0	29.7	2.5	2.7	11.0	11.1
Producer 24% Protein Dairy Feed	24.0	29.1	2.5	2.8	11.0	7.1
Producer 24% Protein Dairy Feed	24.0	25.0	3.0	3.3	11.0	8.8
Blue Grass 20% Dairy Feed	20.0	22.4	3.0	3.1	9.0	7.4
Blue Grass 20% Dairy Feed	20.0	20.3	3.0	3.4	9.0	7.6
Blue Grass 20% Dairy Feed	20.0	23.0	3.0	4.1	9.0	7.7
Blue Grass 20% Dairy Feed	20.0	22.8	3.0	3.4	9.0	7.0
Producer 16% Dairy	16.0	19.8	2.5	2.9	15.0	13.1
Producer 16% Dairy	16.0	17.9	2.5	2.5	15.0	13.6
Producer 16% Dairy	16.0	17.9	2.5	2.7	15.0	12.7
Producer 16% Dairy	16.0	17.8	2.5	2.1	15.0	13.4
Blue Grass 18% Protein Pig and Hog Feed	18.0	18.9	3.5	4.1	6.0	4.9
Blue Grass 18% Protein Pig and Hog Feed	18.0	20.4	3.5	3.9	6.0	4.7
Blue Grass 18% Protein Pig and Hog Feed	18.0	21.4	3.5	4.1	6.0	5.0
Blue Grass 18% Protein Pig and Hog Feed	18.0	21.0	3.5	5.1	6.0	4.3
Blue Grass 18% Protein Pig and Hog Feed	18.0	19.9	3.5	4.6	6.0	4.8
Blue Grass Horse and Mule Feed	9.0	9.9	3.5	3.2	6.0	4.4
Blue Grass Horse and Mule Feed	9.0	10.2	3.5	3.7	6.0	5.1
Blue Grass Sweet Mixing Feed	9.0	13.2	1.0	1.2	14.0	4.5
FUHRER FORD MILLING COMPANY, MT. VERNON, INDIANA						
Wheat Gray Shorts and Screenings	16.0	16.3	4.0	5.0	6.0	5.9
GARDEN STREET MILL AND ELEVATOR, LOUISVILLE, KENTUCKY						
Garden 24% Protein Dairy Feed	24.0	25.8	3.0	2.6	15.0	11.4
Garden 20% Protein Dairy Feed	20.0	26.9	3.0	2.5	15.0	10.4
Garden 20% Protein Dairy Feed	20.0	23.9	3.0	2.5	15.0	10.2
"Garden Special Brand" 16% Protein Dairy Feed	16.0	18.6	3.0	2.8	15.0	9.5
** "Garden Special Brand" 16% Protein Dairy Feed	16.0	21.0	3.0	3.9	15.0	10.0**
Contained unground weed seeds.						
"Garden Special Brand" 16% Protein Dairy Feed	16.0	17.8	3.0	2.7	15.0	11.0
"Garden Special Brand" 16% Protein Dairy Feed	16.0	20.1	3.0	4.0	15.0	10.8
"Garden Special Brand" 16% Protein Dairy Feed	16.0	19.2	3.0	2.8	15.0	10.2
"Garden Brand" Horse Feed	9.0	9.5	2.5	2.1	15.0	14.1
GARRARD MILLS, LANCASTER, KENTUCKY						
"Moore's Special Brand" 16% Dairy Feed	16.0	17.7	3.0	2.9	9.0	5.9
"Glen Lily" Mixed Feed	12.0	13.1	3.5	4.3	6.0	5.8
GENERAL MILLS, MINNEAPOLIS, MINNESOTA						
Larro Sure Chick Starting and Growing Mash	20.0	21.6	3.0	3.7	7.5	5.3
Larro Surebroiler 20% Broiler Mash	20.0	20.8	3.0	3.4	5.5	3.9
Larro Special Poultry Breeder Mash	20.0	21.2	2.5	4.0	8.0	6.8
Larro Special Egg Builder Pellets	20.0	21.9	2.5	3.7	8.0	5.7
* Larro Suremilk 32% Dairy Concentrate	32.0	33.2	2.0	1.4	11.0	6.3**
Larro Special Dairy Concentrate	32.0	34.8	2.0	1.6	11.0	5.1
Larro Special 20% Dairy Feed	20.0	21.0	2.5	2.3	12.0	9.1
Larro Special 20% Dairy Feed	20.0	22.4	2.5	2.5	12.0	7.8

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Regulatory Bulletin No. 106

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
GENERAL MILLS, INC. MINNEAPOLIS, MINNESOTA						
Larro Special 20% Dairy Feed	20.0	22.3	2.5	2.6	12.0	9.0
Larro Fitting Feed	14.0	15.8	2.5	3.4	12.0	7.9
Sunny South Wheat Gray Shorts And Screenings	15.0	15.8	3.5	4.5	6.0	5.4
GERMANTOWN MILLING COMPANY, GERMANTOWN, KENTUCKY						
Mixed Feed	14.0	15.0	3.0	3.6	8.0	5.2
GLASGOW TRADING CENTER, GLASGOW, KENTUCKY						
Chowmix 20% Laying Mash	20.0	20.9	3.0	3.6	7.5	4.4
GLENMORE DISTILLERIES COMPANY, OWENSBORO, KENTUCKY						
Glenmore Corn Distillers Dried Grains	24.5	26.1	8.5	8.8	15.0	10.3
THE GLIDDEN COMPANY, INDIANAPOLIS, INDIANA						
Glidden Chick Starter	20.0	20.8	2.5	3.1	7.0	5.2
Glidden Broiler Ration	20.0	21.3	3.0	3.8	7.0	4.9
Glidden 32% Dairy Concentrate	32.0	33.9	1.0	1.7	9.0	6.7
Calcium	1.9	3.1				
Phosphorus	0.6	1.1				
Salt	2.6	1.7				
Glidden 32% Dairy Concentrate	32.0	31.8	1.0	2.0	9.0	8.0
Calcium	1.9	2.7				
Phosphorus	.6	0.9				
Iodine	.0015					
Salt	2.6	2.3				
Glidden Steer Concentrate	30.0	31.8	1.5	3.0	9.0	5.7
Calcium	1.9	2.9				
Phosphorus	.6	1.1				
Iodine	.001					
Salt	2.3	2.6				
Glidden 35% Pig and Sow Supplement	35.0	36.3	1.3	2.0	9.5	8.4
Calcium	2.8	4.3				
Phosphorus	1.1	1.4				
Iodine	.0005					
Salt	2.1	2.4				
Best Friend Dog Ration	25.0	29.8	4.5	5.9	4.5	2.6
Glidden 44% Protein Solvent Extracted Soybean Oil Meal	44.0	44.1	.5	1.5	7.0	7.3
EDWARD F. GOEKE AND SONS, EVANSVILLE, INDIANA						
Eggo 18% Protein Egg Mash	18.0	19.9	3.0	3.6	5.0	4.2
"Big Gee Brand" 20% Protein Egg Mash	20.0	22.4	3.0	3.8	5.0	4.5
** "Faster Fattner Brand" 15% Protein Station Feed	15.0	16.1	4.5	4.4	6.0	7.5 **
** "Eggo Brand" Mixed Grains Very much below guaranty in protein.	11.0	8.7	2.5	2.9	2.5	1.6 **
** Goeke's 16% Dairy Feed	16.0	19.3	2.5	1.1	13.0	11.7 **
Goeke's 20% Pig and Hog Feed	20.0	21.1	3.0	4.1	5.0	4.4
GOFF MILLING COMPANY, HISEVILLE, KENTUCKY						
16% Dairy Feed	16.0	16.6	2.5	2.7	13.0	8.1

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Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
THE GOLDCAMP MILL COMPANY, IRONTON, OHIO						
"Namico Brand" Wheat Middlings with Ground Screenings	16.0	15.5	3.5	4.2	7.5	6.5
Screened Cracked Corn	8.2	8.7	3.9	3.5	2.0	1.7
GRAYSON MILLING COMPANY, GRAYSON, KENTUCKY						
Blue Grass Cracked Corn	8.0	7.9	3.5	3.0	3.0	1.6
Corn By-Products Feed	9.0	9.8	6.0	7.3	9.0	7.1
GWINN BROTHERS AND COMPANY, HUNTINGTON, WEST VIRGINIA						
"Gwinn's Merit Brand" 20% Starter and Grower	20.0	21.3	3.0	3.2	7.0	6.1
"Gwinn's Merit Brand" 20% Laying Mash	20.0	19.9	3.0	2.6	8.0	5.9
Sweet Acre 24% Dairy Feed	24.0	25.6	2.5	2.3	15.0	15.3
"Gwinn's Grade A Brand" 24% Dairy Feed	24.0	24.3	3.0	2.0	10.0	7.8
** Gwinn's Tip Top Brand 24% Dairy Feed	24.0	23.9	2.5	2.7	15.0	15.6 **
** "Gwinn's Merit Brand" 24% Dairy Feed	24.0	23.4	3.0	3.6	12.0	7.7 **
"Gwinn's Merit Brand" 24% Dairy Feed	24.0	24.7	3.0	4.0	12.0	9.3
** Banner 24% Dairy Feed	24.0	26.3	3.0	2.3	15.0	10.7 **
Contained Flax Plant By Product.						
** Gwinn's 95% Grain Horse Feed	9.0	10.3	2.5	4.2	12.0	6.6 **
Contained unground weed seeds.						
"Gwinn's Mixed Feed and Screenings	13.5	14.0	4.0	4.3	7.5	8.0
Gwinn's Mixed Feed and Screenings	13.5	15.0	4.0	4.9	7.5	6.9
Gwinn's Mixed Feed and Screenings	13.5	13.9	4.0	4.1	7.5	6.7
HALES AND HUNTER COMPANY, CHICAGO, ILLINOIS						
Nitrophenide and Arsanilic Acid in						
Havana Broiler Finisher	18.0	19.2	3.0	3.9	6.0	4.6
Red Comb All Mash Breeder	16.0	15.7	3.0	3.8	7.0	4.7
Red Comb 20% Protein Egg Mash	20.0	21.0	3.0	3.4	7.0	5.3
Red Comb 20% Protein Egg Mash	20.0	20.9	3.0	3.7	7.0	6.0
Pioneer 16% Protein Dairy Feed	16.0	16.2	3.0	3.5	9.0	6.3
Pioneer 16% Protein Dairy Feed	16.0	15.9	3.0	3.5	9.0	5.1
Pioneer Dry and Freshening Feed	12.0	13.1	2.5	3.5	10.0	6.6
"Pioneer Brand" 12% Protein Beef Cattle Fitter	12.0	12.6	2.5	3.9	9.0	4.7
"Pioneer 12% Protein Beef Cattle Fitter	12.0	12.1	2.5	3.4	9.0	5.2
** "Pioneer Hog Balancer	36.0	38.3	2.5	2.6	7.0	6.0 **
Calcium	4.8	3.0				
Phosphorus	2.0	1.4				
Iodine	.002					
Salt	2.2	2.1				
HANCOCK AND FRANKLIN MILL, LOUISVILLE, KENTUCKY						
Arrow 16% Dairy Feed	16.0	19.9	2.5	3.0	15.0	10.0
Arrow Horse and Mule Feed	9.0	9.4	3.5	3.6	6.0	4.3
HARDIN COUNTY MILLS, ELIZABETHTOWN, KENTUCKY						
Emerson's 20% Protein Chick Starter	20.0	21.3	2.5	3.4	7.0	5.0
Emerson's 20% Protein Egg Mash	20.0	20.4	2.5	3.3	7.0	4.8
HARDY BROTHERS MILLS, WALTON, KENTUCKY						
Colonial 20% Egg Mash	20.0	20.7	2.5	3.0	7.0	5.6
R. L. HARRISON AND SON, BAGDAD, KENTUCKY						
Harrison's 16% Protein Dairy Feed	16.0	18.6	3.5	3.9	12.0	8.0

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Regulatory Bulletin No. 106

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
R. L. HARRISON AND SON, BAGDAD, KENTUCKY						
"Bulky Brand" 16-1/2% Protein Dairy Feed	16.5	18.3	3.7	4.1	15.0	11.5
"Bulky Brand" 16 -1/2% Protein Dairy Feed	16.5	17.5	3.7	3.9	15.0	10.5
Harrison's 95% Grain Horse and Mule Feed	9.0	9.3	3.5	3.5	7.0	3.9
THE P. H. HARSHA MILLING COMPANY, PORTSMOUTH, OHIO						
"Harsha's Dixie Sweet Brand" 24% Dairy Feed	24.0	27.3	3.0	4.0	12.0	7.7
"Harsha's Dixie Sweet Brand" 16% Dairy Feed	16.0	19.1	3.0	2.8	12.0	10.3
EDWIN C. HAWKINS, PADUCAH, KENTUCKY						
** "Record Brand" 20% Egg Mash	20.0	19.4	3.5	4.6	7.0	5.9**
** Record Hen Scratch	8.0	9.3	2.0	2.9	7.0	2.3**
Contained unground corn cockle.						
** "Record Brand" 16% Dairy Feed	16.0	16.6	3.0	2.0	15.0	12.2**
G. M. HAYCRAFT AND SON LEITCHFIELD, KENTUCKY						
Haycraft's 25% Protein Turkey Starter	25.0	27.4	2.5	3.2	7.0	5.0
Nitrophenide in Haycraft 20% Protein Broiler Mash	20.0	20.0	3.0	3.7	4.0	3.2
Haycraft 18% Laying Mash	18.0	19.7	2.5	3.6	7.0	4.8
Haycraft's 20% Protein Dairy Feed	20.0	23.8	3.0	2.6	9.0	6.8
HAYDON MILL AND GRAIN COMPANY, SPRINGFIELD, KENTUCKY						
Magic Super Laying Mash	16.0	17.8	2.5	4.0	8.0	4.5
"Magic Brand" 24% Dairy Feed	24.0	26.6	2.5	2.3	15.0	11.2
** "Magic Brand" Pig and Sow Feed	16.0	16.2	3.0	5.7	6.0	7.6**
DR. HEINZ COMPANY, WASHINGTON COURT HOUSE, OHIO						
Heinz Nu-Way 16% Dairy Feed	16.0	17.6	3.5	3.1	9.0	7.1
Heinz Nu-Way Dog Food Meal	23.0	25.2	4.0	6.4	4.0	2.0
HERMITAGE FEED MILLS, NASHVILLE, TENNESSEE						
"Big Pig Brand" 40% Protein Hog Supplement	40.0	40.1	4.5	4.8	7.0	5.1
HERNINGS MILL, HAZEL GREEN, KENTUCKY						
** Herning's Special Brand 16% Dairy Feed	16.0	17.9	2.5	3.0	15.0	9.6**
Contained Mixed Screenings.						
HEYMAN COMPANY, INC. MEMPHIS, TENNESSEE						
** "Yellow Hammer Brand" 41% Protein Cottonseed Meal	41.0	40.4	5.0	5.7	13.0	11.5**
** "Yellow Hammer Brand" 41% Protein Cottonseed Meal	41.0	39.7	5.0	5.4	13.0	12.7**
"Yellow Hammer Brand" 41% Protein Cottonseed Meal	41.0	40.8	5.0	6.5	13.0	11.0
"Yellow Hammer Brand" 41% Protein Cottonseed Meal	41.0	40.5	5.0	6.7	13.0	11.1
HICKMAN COUNTY FEED MILL, CLINTON, KENTUCKY						
"Standard Brand" 40% Hog Supplement	40.0	41.9	4.0	4.3	8.5	6.5
"Standard Brand" 17% Protein Pig and Sow Feed	17.0	20.0	3.0	4.8	6.0	6.0
HOME MILLING COMPANY, GREENVILLE, KENTUCKY						
Happy Home Brand 18% Protein Laying Mash	18.0	19.0	3.5	4.5	8.0	8.2

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
HOME MILLING COMPANY, GREENVILLE, KENTUCKY						
** "Champion Brand" Laying Mash	20.0	19.5	4.0	3.4	7.0	6.2**
"Champion Brand" Hen Scratch	8.0	8.9	2.0	2.4	7.0	1.8
** Happy Home 24% Dairy Feed	24.0	<u>20.8</u>	4.0	4.2	8.0	<u>9.1</u> **
Very much below guaranty in protein.						
Happy Home 16% Sweet Dairy Feed	16.0	15.9	3.0	3.3	15.0	13.1
** Happy Home 16% Sweet Dairy Feed	16.0	<u>15.1</u>	3.0	2.5	15.0	12.0 **
** Happy Home 16% Sweet Dairy Feed	16.0	<u>15.9</u>	3.0	3.5	15.0	12.8 **
Contained Mixed Screenings.						
Happy Home 16% Sweet Dairy Feed	16.0	15.8	3.0	3.5	15.0	13.2
** "Champion Brand" Stock Feed	16.0	<u>14.7</u>	3.5	6.2	9.0	7.4**
Contained mixed screenings.						
Happy Home Hog Ration	16.0	15.5	3.0	5.0	8.0	7.4
"Happy Home Brand" 85% Grain Horse and Mule Feed	9.0	<u>8.2</u>	3.0	2.9	10.0	7.4
"Happy Home Brand" 85% Grain Horse and Mule Feed	9.0	8.5	3.0	2.6	10.0	7.4
"Happy Home Brand" Hominy Feed	10.0	10.6	7.0	6.6	6.0	4.5
Champion Oat Mill Feed	10.0	10.7	3.5	4.6	18.0	15.1
HOPKINSVILLE MILLING COMPANY, HOPKINSVILLE, KENTUCKY						
"Life Cycle Brand" 18% Protein						
Poultry Mash	18.0	18.7	3.5	4.3	7.0	5.9
"Sunflower Brand" 26% Protein Dairy Feed	26.0	26.3	4.0	<u>3.4</u>	10.0	9.6
** "Sunflower Brand" 40% Protein Hog Supplement	40.0	40.5	4.5	<u>3.9</u>	8.0	6.8**
Calcium	3.5	<u>2.6</u>				
Phosphorus	1.5	1.1				
Iodine	0.003					
Salt	1.5	<u>2.6</u>				
** "Sunflower Brand" 40% Protein Hog Supplement	40.0	39.7	4.5	<u>3.2</u>	8.0	7.5**
Calcium	3.5	3.0				
Phosphorus	1.5	1.2				
Salt	1.5	<u>2.4</u>				
HORSE CAVE MILLS, HORSE CAVE, KENTUCKY						
"Superior Brand" Mixed Feed	12.0	13.1	3.0	3.1	8.5	5.1
IGLEHART BROTHERS, EVANSVILLE, INDIANA						
Winter Wheat Gray Shorts and Screenings	14.0	15.3	3.5	3.7	6.0	4.5
Winter Wheat Gray Shorts and Screenings	14.0	16.0	3.5	5.1	6.0	4.1
Winter Wheat Gray Shorts and Screenings	14.0	14.8	3.5	5.0	6.0	5.0
Wheat Bran	13.5	15.0	3.5	3.6	11.0	10.3
INTERNATIONAL MILLING COMPANY, MINNEAPOLIS, MINNESOTA						
"Imco" Wheat Gray Shorts with Screenings	16.0	17.6	4.0	4.9	6.0	6.0
JONES PACKING COMPANY, PADUCAH, KENTUCKY						
Jone's 45% Protein Tankage	45.0	47.0	10.0	18.2	4.0	2.0
KASCO MILLS, INC. TOLEDO, OHIO						
Kasco Breeder Mash Supplement	31.0	30.8	3.0	3.5	7.0	5.7
Calcium	3.2	3.3				
Phosphorus	1.2	1.6				
Salt	2.2	2.2				

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
KASCO MILLS, INC. TOLEDO, OHIO						
Kasco Poultry Breeder Mash	20.0	21.3	3.0	3.2	7.5	6.3
"Kasco Mormilk Brand" Dairy Feed	24.0	24.7	3.5	3.1	10.0	7.0
Kasco C complete Hog Ration	25.0	27.9	7.0	9.0	4.0	3.3
KECO MILLING COMPANY, MCKENZIE, TENNESSEE						
Keco 20% Starting Mash	20.0	21.5	3.0	5.9	7.0	5.4
Keco 16% Dairy Feed	16.0	16.0	2.5	3.3	15.0	8.5
KELLER HAY AND GRAIN COMPANY, NEWPORT, KENTUCKY						
Big K 20% Layer	20.0	20.4	3.5	3.3	8.0	5.5
Big K Pig and Sow Ration	16.0	16.3	3.5	5.7	6.0	5.5
KENTUCKY ANIMAL BY-PRODUCTS COMPANY, RUSSELLVILLE, KENTUCKY						
"Blue Ribbon Brand" 50% Tankage	50.0	51.7	6.0	14.7	3.0	2.2
"Blue Ribbon Brand" 50% Tankage	50.0	57.2	6.0	12.7	3.0	2.3
F. W. KIBLER MILLING COMPANY, MT. ORAB, OHIO						
Kibler 20% Protein Chick Starter	20.0	22.5	4.0	4.4	6.0	4.8
Kibler 20% Egg Breeder Mash	20.0	21.7	3.0	3.8	7.0	5.6
LAKE COUNTY OIL MILL, TIPTONVILLE, TENNESSEE						
41% Protein Cottonseed Meal	41.0	41.4	4.0	4.1	10.0	9.9
41% Protein Cottonseed Meal	41.0	41.4	4.0	3.9	10.0	10.1
LAUHOFF GRAIN COMPANY, DANVILLE, ILLINOIS						
Vermillion Hominy Feed	9.0	10.4	5.0	6.0	6.0	4.0
Vermillion Hominy Feed	9.0	10.1	5.0	6.2	6.0	3.6
LEXINGTON ROLLER MILLS, LEXINGTON, KENTUCKY						
"Thoroughbred Brand" 20% Protein Starting and Growing All-Mash	20.0	21.7	3.5	4.0	6.0	6.2
"Thoroughbred Brand" (Kentucky Queen) 20% Protein Egg Mash	20.0	20.6	4.0	4.4	8.0	6.6
"Thoroughbred Brand" (Kentucky Queen) 20% Protein Egg Mash	20.0	21.0	4.0	4.3	8.0	6.5
** Capitol Scratch Feed Contained unground weed seeds.	8.0	9.5	2.5	3.3	4.5	3.1 **
** Capitol Scratch Feed Contained unground weed seeds.	8.0	9.2	2.5	3.4	3.0	3.0 **
"Thoroughbred Brand" 24% Protein Sweet Dairy Feed	24.0	26.3	3.0	2.8	8.0	6.4
"Thoroughbred Brand" 24% Protein Sweet Dairy Feed	24.0	24.9	3.0	3.9	8.0	7.4
"Thoroughbred Brand" 24% Protein Sweet Dairy Feed	24.0	24.4	3.0	3.0	8.0	7.9
"Thoroughbred Brand" 24% Protein Sweet Dairy Feed	24.0	27.0	3.0	3.0	8.0	7.1
"Sweet Sue" 24% Protein Sweet Dairy Feed	24.0	25.9	3.0	3.4	13.0	8.3
"Sweet Sue" 24% Protein Sweet Dairy Feed	24.0	24.8	3.0	3.7	13.0	8.6
** "Thoroughbred Brand" 20% Protein Sweet Dairy Feed Contained Mixed Screenings.	20.0	21.4	3.0	3.5	9.0	8.1 *
"Thoroughbred Brand" 16% Protein Sweet Dairy Feed	16.0	18.2	3.0	3.4	10.0	8.0

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
LEXINGTON ROLLER MILLS COMPANY, LEXINGTON, KENTUCKY (Cont'd)						
"Thoroughbred Brand" 16% Protein Sweet Dairy Feed	16.0	17.1	3.0	3.5	10.0	6.7
"Thoroughbred Brand" Sheep Feed	14.0	15.1	3.0	3.4	10.0	6.6
** "Thoroughbred Brand" 16% Pig and Hog Ration	16.0	17.5	3.0	3.3	6.0	4.9 **
Contained mixed screenings.						
** "Thoroughbred Brand" Horse and Mule Feed	9.0	9.2	3.0	3.8	6.0	4.1 **
Contained unground weed seeds.						
** "Bossie" Stock Feed	13.0	12.9	3.0	3.6	11.0	7.5 **
Contained mixed screenings.						
** "Suzy-Q-Brand" Stock Feed	10.0	13.9	3.0	4.1	15.0	7.5 **
Contained mixed screenings.						
** "Thoroughbred" Wheat Brown Shorts and Screenings	15.0	16.0	4.0	4.5	7.5	8.2 **
"Thoroughbred" Wheat Brown Shorts and Screenings	15.0	14.7	4.0	4.1	7.5	7.5
LEWISBURG ROLLER MILLS, LEWISBURG, KENTUCKY						
Coon Range Starter and Grower Mash	20.0	21.2	2.0	3.3	7.0	5.9
"Coon Range Economy Brand" 20% Laying Mash	20.0	21.1	3.5	3.9	8.0	5.5
** Milk Maid Sweet Dairy	16.0	15.8	2.5	2.1	10.0	10.7 **
** "Coon Range Brand" 16% Dairy Feed	16.0	14.7	3.0	2.4	12.0	8.4 **
"Coon Range Brand" Pork Maker	16.0	16.9	2.5	3.4	8.0	6.3
LOFTON'S MILLS, PROVIDENCE, KENTUCKY						
** "Farmer's Sweet Brand" 24% Protein Dairy Feed	24.0	25.6	3.0	3.3	10.0	11.1 **
"Veribest Brand" Hen Scratch Feed	8.0	8.8	3.0	2.8	5.0	1.7
LONDON FEED AND MILLING COMPANY, LONDON, KENTUCKY						
Laurel Special 24% Dairy Feed	24.0	23.6	3.0	3.5	10.0	7.5
LOUISA SUPPLY COMPANY, LOUISA, KENTUCKY						
Louisa Hominy Feed	9.0	9.3	7.0	7.2	9.0	8.7
L. B. LOVITT AND COMPANY, MEMPHIS, TENNESSEE						
"Lovit Brand" 41% Protein Cottonseed Meal	41.0	41.3	4.0	5.1	13.0	10.7
LOUDONVILLE MILLING COMPANY, LOUDONVILLE, OHIO						
"LeGrande" Soft Winter Wheat Brown Middlings and Screenings	13.5	14.8	4.0	4.2	7.0	5.9
LOWE'S FEED AND HATCHERY, BOWLING GREEN, KENTUCKY						
"Blue Ribbon" 20% Chick Starter	20.0	21.6	2.5	3.4	6.0	5.7
"Blue Ribbon" 20% Broiler Mash	20.0	19.9	3.0	3.0	4.0	3.2
"Blue Ribbon" 20% Breeder Mash	20.0	22.0	2.5	3.5	7.0	5.3
"Blue Ribbon" 20% Egg Mash	20.0	21.7	2.5	4.3	7.0	5.0
"Milk Flo" 16% Dairy Feed	16.0	15.8	3.0	4.2	9.0	7.1
LYNN GROVE MILLING COMPANY, LYNN GROVE, KENTUCKY						
Wheat Bran and Shorts	14.0	13.9	3.5	3.3	8.0	5.9

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
MCCARLEY AND RICHARDSON, RUSSELLVILLE, KENTUCKY						
** Thrifty Pork Builder	16.0	<u>13.4</u>	3.0	3.8	6.5	4.4 **
Very much below guarantee in protein.						
"Thrifty" All Mash Laying Ration	15.0	16.1	2.5	4.6	8.0	5.8
J. E. MCGAHAN AND COMPANY, PAINTSVILLE, KENTUCKY						
Cracked Corn	7.0	8.4	2.5	3.2	1.5	1.8
MCGINNIS COMPANY, HUNTINGTON, WEST VIRGINIA						
"Reliable Brand" Cracked Corn	8.0	8.0	3.5	3.6	3.0	1.6
MCMILLEN FEED MILLS, FORT WAYNE, INDIANA						
Master Mix M-V Chick Starter	21.0	22.4	2.5	3.3	6.0	6.0
Master Mix Egg Mash	20.0	22.1	2.5	2.7	7.0	6.3
Master Blend 33% Protein and Mineral						
Dairy Concentrates	33.0	34.7	2.0	1.9	9.0	5.3
Calcium	2.4	5.8				
Phosphorus	.7	1.3				
Iodine	.0003					
Salt	2.5	2.7				
Master Blend 33% Protein and Mineral						
Dairy Concentrates	33.0	33.0	1.5	1.0	9.0	5.7
Calcium	2.8	4.6				
Phosphorus	.9	1.2				
Iodine	.0003					
Salt	2.5	2.3				
Master Mix 32% Beef Concentrate	32.0	35.6	1.0	0.9	7.0	5.7
Calcium	2.5	4.2				
Phosphorus	1.2	1.7				
Iodine	.0002					
Salt	2.7	2.8				
Master Mix 35% Protein and Mineral						
Hog Concentrate	35.0	35.9	1.5	1.9	9.0	6.5
Calcium	3.8	3.9				
Phosphorus	1.1	1.2				
Iodine	.0005					
Salt	1.6	1.7				
** Master Mix 35% Protein and Mineral						
Hog Concentrate	35.0	<u>33.9</u>	1.5	1.3	9.0	7.7 **
Calcium	3.8	4.0				
Phosphorus	1.1	1.1				
Iodine	.0005					
Salt	1.6	1.6				
MARKIN FEED COMPANY, IRONTON, OHIO						
** Markin Special 16% Protein Dairy Feed	16.0	<u>15.3</u>	2.5	3.3	15.0	11.8 **
MAYFIELD MILLING COMPANY, MAYFIELD, KENTUCKY						
Economy Brand 16% Dairy Feed	16.0	16.8	2.5	2.0	14.0	9.8
White Chester 19% Hog Grower and Fattener	19.0	20.6	4.0	4.3	6.0	5.6
Wheat Mixed Feed and Screenings	14.5	14.1	3.5	4.0	7.5	6.4
"State Leader" 18% Protein Laying Mash	18.0	18.5	4.0	4.5	7.0	4.3
MEDLEY DISTILLING COMPANY, OWENSBORO, KENTUCKY						
Medley's Corn Distiller Dried Grains	25.0	31.6	5.0	9.1	16.0	12.2

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Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
MENNEL MILLING COMPANY, TOLEDO, OHIO Memo Wheat Gray Middlings with Screenings	15.0	16.2	4.0	4.6	6.0	5.3
MERO MILLS, NASHVILLE, TENNESSEE Dutch Maid 16% Dairy Feed	16.0	19.2	3.0	2.5	15.0	9.9
MIDGET MILLS, SOMERSET, KENTUCKY ** Mixed Feed Contained cob and shuck.	13.0	13.8	4.0	4.0	8.5	6.4 **
MIDDLESBORO MILLING COMPANY, MIDDLESBORO, KENTUCKY ** "Reliable Brand" 24% Protein Dairy Feed	24.0	24.7	4.0	3.4	12.0	9.1 **
"Good Value Brand" 16% Protein Dairy Feed	16.0	18.3	3.5	3.1	14.0	9.0
"Hard To Beat" Feed	13.0	14.7	3.5	3.6	8.0	6.5
MILLIKEN SWEET FEED MILL, FRANKLIN, KENTUCKY Chowmix Laying Mash	15.0	16.7	3.0	3.6	6.0	2.9
MONARCH MILLING COMPANY, MT. STERLING, KENTUCKY Mixed Feed with Screenings	12.0	12.5	3.0	2.7	8.0	5.1
MORGANTOWN FEED MILL, MORGANTOWN, KENTUCKY "Flava Brand" 20% Protein Laying Mash	20.0	21.8	2.5	4.6	7.0	5.6
"Flava Brand" 20% Protein Dairy Feed	20.0	20.6	3.0	3.7	10.0	7.3
MORRISTOWN MILLING COMPANY, MORRISTOWN, TENNESSEE "Dixie Cream Brand" Mixed Feed	12.0	12.3	4.0	3.9	8.5	6.4
MONROE SWEET FEED MILL, TOMPKINSVILLE, KENTUCKY Ground Snapped Corn and Molasses	6.5	7.6	3.0	3.2	9.0	5.8
MT. VERNON MILLING COMPANY, MT. VERNON, INDIANA "Poco" Corn By-Products Feed	10.0	11.2	5.5	6.6	6.0	4.1
MUNFORDSVILLE MILLING COMPANY, MUNFORDSVILLE, KENTUCKY "Purity Brand" 20% Protein Laying Mash	20.0	19.8	2.5	4.1	7.0	6.0
"Purity Brand" 18% Protein Pig and Sow Feed	18.0	18.5	3.0	4.0	6.0	5.4
MURPHY GRAIN AND MILLING COMPANY, OWENSBORO, KENTUCKY "Aiolite" 15 - 1/2% Protein All Purpose Poultry Mash	15.5	19.7	4.0	4.2	6.0	3.8
Aiolite Hominy Feed	10.0	10.0	7.0	7.3	6.0	6.3
MYERS AND CLARK COMPANY, ASHLAND, KENTUCKY 20% Protein All Mash Starter and Grower	20.0	21.4	3.0	4.6	7.0	6.2
"Ideal Brand" 20% Laying Mash	20.0	22.5	3.0	5.3	8.0	6.3
"Ideal Brand" 18% Protein Laying Mash	18.0	18.8	3.0	4.5	8.0	5.8
"Ideal Brand" Scratch Feed	9.0	9.0	3.0	2.7	5.0	1.9
** "Ideal Brand" 24% Protein Dairy Feed	24.0	23.5	3.0	2.0	14.0	9.4 **
"Ideal Brand" 24% Protein Dairy Feed	24.0	23.9	3.0	2.5	14.0	9.0
"Ideal Brand" 24% Protein Dairy Feed	24.0	2.45	3.0	3.1	14.0	8.4
** "Special Brand" 24% Protein Dairy Feed Very much below guarantee in protein.	24.0	19.7	2.5	2.5	15.0	9.2 **
** "Ideal Brand" 85% Grain Horse and Mule Feed	10.0	9.0	3.0	2.8	12.0	6.1 **
** "Ideal Brand" 85% Grain Horse and Mule Feed	10.0	9.4	3.0	3.0	12.0	5.5 **
"Ideal Brand" 85% Grain Horse and Mule Feed	10.0	9.9	3.0	3.0	12.0	6.3

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
MYERS AND CLARK, ASHLAND, KENTUCKY (Cont'd)						
Steel Cut Corn	8.0	8.0	3.5	3.7	3.0	1.7
NATIONAL BISCUIT COMPANY, TOLEDO, OHIO						
Namico Wheat Middlings with Screenings	14.0	15.3	3.5	4.6	9.0	6.2
Namico Wheat Middlings with Screenings	14.0	15.1	3.5	4.1	9.0	6.4
Wheat Bran	14.5	14.9	3.7	3.5	10.0	10.0
NASHVILLE COTTON OIL MILL, INC. NASHVILLE, TENNESSEE						
41% Protein Soybean Oil Meal	41.0	42.2	3.0	4.3	7.0	6.0
NATIONAL OATS COMPANY, EAST ST. LOUIS, ILLINOIS						
"Corno" 24% Protein Dairy Feed	24.0	24.0	3.5	3.3	12.0	8.7
THE NEW ERA MILLING COMPANY, ARKANSAS CITY, KANSAS						
"Polar Bear" Wheat Gray Shorts With Screenings	16.0	15.8	4.0	4.0	6.0	6.0
CHAS. NUNN AND SONS MILLING COMPANY, EVANSVILLE, INDIANA						
Nunn-Better 17% All Mash with Cod Liver Oil	17.0	18.3	2.5	3.1	6.5	4.4
Banner 17% All Mash with Cod Liver Oil	17.0	18.4	2.5	4.0	6.5	4.7
Nunn-Better 20% Egg Mash	20.0	21.3	2.5	3.0	7.0	5.4
Banner Sweet 16% Dairy Feed	16.0	17.4	2.5	2.1	12.5	10.0
Nunn-Better Cattle Roughage Feed	9.0	11.8	.5	0.5	26.0	20.3
"Nunn Better Brand" 15% Rabbit Pellets (Complete Ration)	15.0	16.0	2.0	3.7	17.0	15.4
Nunn-Better 20% Pig Starter and Shoat Grower	20.0	20.7	2.5	4.0	6.0	5.1
OWENSBORO GRAIN COMPANY, OWENSBORO, KENTUCKY						
Ograco 44% Protein Solvent Extracted Soybean Oil Meal	44.0	48.9	.5	0.5	7.0	5.5
OWENSBORO MILLING COMPANY, OWENSBORO, KENTUCKY						
Tru Test 20% Starting Mash	20.0	21.6	3.5	4.0	7.0	4.5
Tru Test 20% Starting Mash	20.0	22.1	3.5	4.0	7.0	4.7
Tru Test 20% Laying Mash	20.0	19.7	3.0	4.7	7.5	5.7
Tru Test 16% Milk Maker	16.0	16.5	4.0	4.5	10.0	7.6
Star 16-1/2% Dairy Feed	16.5	17.3	2.5	4.1	10.0	8.2
Star 16-1/2% Dairy Feed	16.5	18.5	2.5	4.0	10.0	7.8
Sugar Lassie Dairy Feed	16.0	17.8	2.5	2.6	15.0	9.1
Sugar Lassie Dairy Feed	16.0	17.5	2.5	2.9	15.0	7.8
Tru Test 32% Beef Cattle Supplement	32.0	31.7	2.0	2.1	8.0	7.3
Tru Test 40% Hog Supplement	40.0	41.4	3.0	4.0	8.0	5.2
D and H Stock Feed	13.2	14.0	3.0	4.1	8.0	7.2
PAN AMERICAN MILLS, BOWLING GREEN, KENTUCKY						
** Green Valley 20% Dairy Feed	20.0	17.4	4.0	3.1	15.0	8.2 **
Very much below guaranty in protein.						
** Green Valley 20% Dairy Feed	20.0	20.3	4.0	3.6	15.0	10.8 **
Contained mixed screenings.						
Bell Ringer 16% Dairy Feed	16.0	16.4	3.0	3.3	15.0	12.8
Bell Ringer 16% Dairy Feed	16.0	16.7	3.0	3.4	15.0	13.9
** Bell Ringer 16% Dairy Feed	16.0	15.6	3.0	3.4	15.0	11.9 **
Contained unground weed seeds.						
Corn By-Products Feed	10.0	11.2	6.0	9.2	6.0	5.9

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Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
PARAMOUNT FEED MILLS, LOUISVILLE, KENTUCKY						
Paramount Scratch Feed	8.0	8.5	3.0	3.3	5.0	1.7
I. E. PAYNE AND COMPANY, EUBANKS, KENTUCKY						
"Farmers Choice Brand" 20% Protein						
Laying Mash	20.0	21.0	3.5	3.5	7.0	7.1
** "Farmers Choice Brand" 20% Protein						
Laying Mash	20.0	19.2	3.5	4.1	7.0	7.0 **
PHENIX PABST-ETT COMPANY, CHICAGO, ILLINOIS						
Kraco Dried Cheese Whey	12.0	12.4	.5	0.3	0.0	0.1
PILLSBURY MILLS, INC. LOUISVILLE, KENTUCKY						
Pillsbury's Best Chick Starter	20.0	20.9	3.5	3.8	7.0	6.1
Calcium	1.5	1.5				
Phosphorus	.6	.9				
Salt	.3	.2				
Pillsbury Champion Starter and Grower	18.0	18.0	3.5	4.1	7.0	6.7
Calcium	1.2	1.4				
Phosphorus	.6	1.0				
Iodine	.0002					
Salt	.3	.6				
Ballards Starter and Grower	18.0	18.9	3.0	4.3	7.0	6.2
Pillsbury Best Breeder Mash	20.0	20.1	3.5	3.8	8.0	7.4
Calcium	1.8	2.1				
Phosphorus	.8	1.0				
Salt	1.0	.7				
Pillsbury's Thrift Egg Producer	20.0	20.7	3.5	4.6	8.0	7.4
Calcium	1.8	2.1				
Phosphorus	.7	1.0				
Iodine	.0005					
Salt	1.0	1.2				
Pillsbury's Best Laying Mash	20.0	20.8	3.0	3.5	8.0	7.3
Calcium	2.0	1.8				
Phosphorus	1.0	1.0				
Iodine	.0002					
Salt	.7	.5				
Pillsbury's Champion Egg Producer	20.0	21.3	3.5	3.9	8.0	6.6
Calcium	1.8	2.4				
Phosphorus	.7	1.1				
Iodine	.0005					
Salt	1.0	.8				
Pillsbury's Champion Egg Producer	20.0	20.7	3.5	3.6	8.0	7.4
Calcium	1.8	2.4				
Phosphorus	.7	1.0				
Iodine	.0005					
Salt	1.0	.8				
Insurance Egg Producer	20.0	21.5	3.0	4.0	8.0	6.7
Calcium	2.0	2.2				
Phosphorus	1.0	1.2				
Insurance Egg Producer	20.0	20.1	3.0	3.9	8.0	6.7
** Pillsbury's Best Scratch Grains	8.0	9.3	2.5	2.6	4.0	3.2 **
Contained unground weed seeds.						

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
PILLSBURY'S MILLS, INC. LOUISVILLE, KENTUCKY (Cont'd)						
** Pillsbury's Best 32% Dairy Concentrate	32.0	32.5	1.5	2.5	9.0	6.6 **
Calcium	3.0	1.6				
Phosphorus	1.5	0.9				
Iodine	0.0008					
Salt	1.5	1.6				
Pillsbury's Best 32% Dairy Concentrate	32.0	34.8	1.5	2.2	9.0	5.9
Calcium	3.0	2.7				
Phosphorus	1.2	1.0				
Salt	1.5	1.8				
** Pillsbury's Best 32% Dairy Concentrate	32.0	35.0	1.5	2.0	9.0	6.6 **
Calcium	3.0	2.5				
Phosphorus	1.2	1.3				
Salt	1.5	3.3				
Ballards 24% Protein Dairy Feed	24.0	25.8	3.0	2.5	11.0	6.3
Pillsbury's Champion 24% Milk Producer	24.0	24.2	3.0	3.2	11.0	8.2
Pillsbury's Champion 24% Milk Producer	24.0	23.8	3.0	2.7	11.0	7.0
** Pillsbury's Champion 24% Milk Producer	24.0	25.7	3.0	2.3	11.0	6.5 **
Pillsbury's Champion 24% Milk Producer	24.0	25.2	3.0	2.5	11.0	6.8
Insurance 24% Milk Producer	24.0	27.2	3.0	3.5	11.0	7.8
Pillsbury's Champion 20% Milk Producer	20.0	21.0	3.0	2.6	11.0	7.4
Pillsbury's Champion 20% Milk Producer	20.0	20.6	3.0	2.6	11.0	7.0
Insurance 20% Milk Producer	20.0	21.2	3.0	3.3	11.0	2.7
Pillsbury's Best 16% Dairy Feed	16.0	18.3	3.0	2.7	9.0	6.7
Pillsbury's Best 16% Dairy Feed	16.0	18.0	3.0	3.3	9.0	6.5
Pillsbury's Champion 16% Milk Producer	16.0	17.5	3.0	3.3	12.0	7.7
Pillsbury's Champion 16% Milk Producer	16.0	18.2	3.0	2.6	12.0	8.7
** Dutch Maid 16% Dairy Feed	16.0	16.8	3.0	2.2	15.0	11.6 **
Dutch Maid 16% Dairy Feed	16.0	16.9	3.0	2.9	15.0	12.2
Dutch Maid 16% Dairy Feed	16.0	17.5	3.0	3.0	14.0	11.8
Balco 16% Dairy Feed	16.0	18.2	3.0	2.7	15.0	12.0
** Pillsbury's Best Cattle Feed Concentrate	32.0	33.0	1.5	1.8	9.0	5.2 **
Calcium	3.0	2.8				
Phosphorus	1.2	.7				
Iodine	.0008					
Salt	1.5	2.4				
Pillsbury's Best Pig and Sow Ration	18.0	18.4	3.0	3.5	6.0	5.8
Pillsbury's Best Pig and Sow Ration	18.0	19.2	3.0	3.3	6.0	5.4
Pillsbury's Champion Pork Builder	14.0	15.7	3.0	3.9	8.0	7.5
Pillsbury's Best Sheep Feed	13.5	14.4	2.5	2.8	9.0	6.8
** Pillsbury's Best Dog Feed	24.0	27.5	5.5	4.1	4.0	4.2 **
Ballard's Wheat Brown Shorts with Screenings	15.0	16.1	3.5	4.1	7.0	6.3
Ballard's Wheat Brown Shorts with Screenings	15.0	16.2	3.5	3.9	7.0	6.2
PRINCETON MILLS, PRINCETON, KENTUCKY						
Chowmix 16% Dairy Feed B	16.0	15.6	3.0	3.0	15.0	7.0
PROVICO FEEDS AND CONCENTRATES, CINCINNATI, OHIO						
Provico Starter and Grower	20.0	21.7	3.0	4.8	7.0	5.2
Provico Big V 20% Egg Mash	20.0	19.6	3.0	4.9	8.0	6.1
** Provico 24% Dairy Feed	24.0	21.0	3.5	3.2	12.0	7.3 **
Very much below guarantee in protein.						
Provico 24% Big V Dairy Feed	24.0	24.0	3.0	3.8	15.0	9.1
Big V Horse and Mule Feed	9.0	9.9	3.0	3.7	6.0	5.1

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
PROVICO FEED AND CONCENTRATES, CINCINNATI, OHIO (Cont'd)						
Provico Cracked Corn	8.0	8.4	3.5	4.2	3.0	1.8
PURCELL SEED COMPANY, EVANSVILLE, INDIANA						
Purcell 20% Laying Mash	20.0	20.5	2.5	3.3	7.0	5.2
Purcell 18% Poultry Mash (With Cod Liver Oil)	18.0	18.7	3.0	3.5	5.0	4.8
Purcell 18% Poultry Mash	18.0	18.3	3.0	3.3	5.0	4.2
** "Judge Brand" 40% Protein Shoat and Hog Supplement	40.0	37.9	2.0	3.1	8.0	8.5 **
Calcium	2.0	5.0				
Phosphorus	1.0	1.1				
Iodine		.0035				
Salt	1.0	1.4				
Very Much below guarantee in protein.						
RALSTON PURINA COMPANY, ST. LOUIS, MISSOURI						
Purina Chick Startena	20.0	20.7	3.0	3.8	5.0	4.0
3-Nitro-4 Hydroxyphenylarsonic Acid and Nitrophenide in Purina Chick Startena	20.0	20.7	3.0	3.6	5.0	4.1
Purina Chick Growena	17.0	17.9	3.0	3.8	7.0	4.8
Purina Chick Growena	17.0	17.5	3.0	4.0	7.0	5.0
Purina Chick Growena E	17.0	17.4	3.0	3.6	7.0	4.6
Broiler Chow Starter	22.0	23.2	3.0	3.7	5.0	3.4
** 3-Nitro-4 Hydroxyphenylarsonic Acid in Purina Broiler Chow Finisher	18.0	17.2	3.0	4.0	4.5	2.6 **
Purina Broiler Chow Finisher	18.0	19.5	3.0	3.9	4.5	3.7
Purina Breeder Lay Chow	20.0	22.5	2.5	3.5	6.0	5.5
Purina Breeder Layena (Complete Ration)	15.5	17.3	3.0	4.1	6.0	4.2
Purina Layena (Complete Ration)	15.5	15.3	3.0	3.8	6.0	4.1
Purina Layena (Complete Ration)	15.5	17.3	3.0	3.8	6.0	4.5
Purina Layena (Complete Ration)	15.5	18.2	3.0	4.0	6.0	4.5
Purina Layena (Complete Ration)	15.5	16.4	3.0	4.5	6.0	4.0
Purina Layena (Complete Ration)	15.5	16.4	3.0	3.8	6.0	4.2
Purina Lay Chow	20.0	20.8	2.5	3.7	6.5	5.2
Purina Lay Chow	20.0	21.2	2.5	4.2	6.0	5.2
Purina Hen Chow	9.0	9.2	2.0	3.0	5.0	3.2
Purina Hen Chow	9.0	9.4	2.0	3.3	5.0	1.9
Purina Cow-Chow 32% Protein and Mineral Concentrate	32.0	34.5	1.5	3.7	9.0	7.3
Calcium	3.0	3.4				
Phosphorus	1.0	1.4				
Salt	2.3	2.4				
** Purina Cow-Chow 32% Protein and Mineral Concentrate	32.0	31.5	1.5	2.4	9.0	5.4 **
Calcium	3.0	1.6				
Phosphorus	1.0	.9				
Iodine		.00035				
Salt	2.3	2.0				
Purina Cow-Chow 32% Protein and Mineral Concentrates	32.0	34.9	1.5	2.5	9.0	5.4
Calcium	3.0	4.3				
Phosphorus	1.0	1.2				

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
RALSTON PURINA COMPANY, ST. LOUIS, MISSOURI, (Cont'd)						
** Purina Cow-Chow Supplement	24.0	27.7	2.5	2.8	11.0	6.6 **
Calcium	2.0	1.0	.90	1.0		
Phosphorus	.9	1.0				
Iodine	.00035					
Salt	2.3	2.4				
Purina Cow Chow	18.0	20.1	3.0	2.6	12.0	7.3
Purina Milk Chow	16.0	17.6	3.0	3.0	12.0	6.3
Purina Milk Chow	16.0	15.9	3.0	2.6	12.0	6.3
Purina Milk Chow	16.0	17.0	3.0	2.5	12.0	6.4
Purina Milk Chow	16.0	16.6	3.0	2.9	12.0	6.5
Purina Milk Chow	16.0	15.9	2.5	2.6	10.0	5.2
Purina Milk Chow	16.0	16.8	2.5	2.7	10.0	6.4
Purina Milk Chow	16.0	17.0	2.5	2.7	10.0	6.7
Purina Dry and Freshening Chow	12.5	14.2	3.0	3.6	12.0	8.0
Purina Dry and Freshening Chow	12.5	14.4	2.5	3.2	12.0	9.0
Purina Dry and Freshening Chow	12.5	13.6	2.5	2.9	12.0	8.5
Purina Beef Chow	32.0	34.5	2.5	2.5	8.0	6.0
Purina Nursing Chow	25.0	27.1	2.5	2.0	3.0	.6
Purina Range Checkers A	20.0	21.8	2.5	3.3	8.0	6.4
Purina Steer Fatena K	20.0	22.4	2.5	2.4	10.0	5.5
** Purina Steer Fatena (Corn Belt)	32.0	30.7	2.5	3.5	8.0	6.7 **
Purina Fat Calf Chow E	14.0	15.4	2.5	3.0	8.0	4.3
Purina Rabbit Chow Checkers (Complete Ration)	15.0	16.5	2.0	3.2	18.0	13.1
Purina Rabbit Chow Checkers (Complete Ration)	15.0	16.2	2.0	3.4	18.0	12.7
Purina 36% Hog Chow Supplement	36.0	35.8	2.0	2.6	10.0	6.2
Calcium	4.0	3.8				
Phosphorus	1.8	1.9				
Iodine	.0003					
Salt	1.8	1.9				
Purine 36% Hog Chow Supplement	36.0	38.5	2.0	3.4	10.0	6.1
Calcium	4.0	3.6				
Phosphorus	1.8	2.0				
Iodine	.0003					
Salt	1.8	1.4				
Purina Complete Sow and Pig Chow	16.0	18.9	2.5	3.7	6.0	5.3
Purina Complete Sow and Pig Chow B	16.0	17.3	3.0	3.7	6.0	4.3
Purina Hog Fatena (Complete Ration)	14.0	15.8	2.5	3.7	7.0	3.3
Purina Hog Fatena (Complete Ration)	14.0	15.4	2.5	3.7	7.0	3.0
Purina Omolene	10.0	11.4	3.0	3.7	11.0	6.4
Purina Chowder	36.0	37.4	1.5	2.8	9.0	6.2
Calcium	3.5	3.9				
Phosphorus	1.2	1.5				
Iodine	.0003					
Salt	2.0		2.2			
RANDOLPH MILLING COMPANY, BANDANA, KENTUCKY						
** "Hen Joy" Scratch Feed	10.0	10.4	3.0	2.7	3.0	2.4 **
Contained unground corn cackle.						
Nu-Joy Brand 16% Protein Dairy Feed	16.0	15.5	2.5	2.9	10.0	6.4
RENFRO SUPPLY COMPANY, WILLIAMSBURG, KENTUCKY						
Renfro 24% Protein Dairy Feed	24.0	30.5	2.5	2.4	11.0	10.0

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Quarterly Report on Feed Samples

ANALYSIS OF NON-PROTEIN NITROGEN FROM UREA IN FEEDS (Cont'd)

Manufacturer, Brand and Remarks

	Non-Protein Nitrogen	
	Guaranteed	Found
Sun-Ray Feed Mills, Lexington, Kentucky		
Sun-Ray Special 24% Dairy Feed	7.87	6.70
Sun-Ray Special 24% Dairy Feed	7.87	6.80
Green Valley 24% Dairy Feed	7.60	5.30
Green Valley 24% Dairy Feed	7.60	8.80
Green Valley 24% Dairy Feed	7.60	9.10
Green Valley Special 24% Dairy Feed	8.40	7.00
Booster 20% Dairy Feed	5.90	5.10
Green Valley 16% Dairy Feed	3.67	3.60
Sun-Ray 14% Steer Feed Pellets	6.40	6.60
Supreme Feed Mills, Glasgow, Kentucky		
Feeders Pride 24% Dairy Feed	6.10	7.30
Feeders Pride 24% Dairy Feed	6.10	7.30
Feeders Pride 24% Dairy Feed	6.10	7.10
Supreme Special 24% Dairy Feed	7.30	5.00
Supreme Special 24% Dairy Feed	7.30	8.40
Supreme Special 20% Dairy Feed	6.56	4.40
Feeders Pride 16% Dairy Feed	5.24	5.10
Supreme 16% Dairy Feed	5.24	3.90
Supreme 16% Dairy Feed	5.24	4.70
Sweet Feed Mills, Inc. Bowling Green, Kentucky		
Freshgood 24% Dairy Feed	5.90	7.90
Freshgood 16% Dairy Feed	5.24	2.00
Tri-State Mills, Kenova, West Virginia		
Daisy 24% Dairy Feed	8.00	9.40
Daisy 24% Dairy Feed	8.00	8.10
The Ubiko Milling Company, Cincinnati, Ohio		
Special Union Grains Life Guard 24% Dairy Feed	8.00	10.40
Sunbeam 16% Dairy Feed	4.00	3.90
Sunbeam 16% Dairy Feed	4.00	2.00
Sunbeam 16% Dairy Feed	4.00	2.30
Winn Milling Company, Greensburg, Kentucky		
Daisy 20% Dairy Feed	6.60	2.50
Daisy 16% White Tag Dairy Feed	3.90	2.00
J. W. Zaring Grain and Mill Company, Richmond, Kentucky		
Zaring 16% Dairy Feed	2.33	3.60

For protein, fat and fiber analysis of the above samples, see report of Official Feed Samples analyzed in the pages that follows.

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REPORT OF OFFICIAL FEED SAMPLES ANALYZED

January, February, March, 1953

Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse, have been made to stand out in the report by the use of underline, asterisks, and (where necessary) appropriate remarks.

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
THE ABILENE FLOUR MILLS COMPANY, ABILENE, KANSAS						
Wheat Gray Shorts with Screenings	16.0	17.5	4.0	4.1	6.0	6.1
H. T. ADAMS COMPANY, HARRODSBURG, KENTUCKY						
"Old Fort Brand" 15% Protein All Mash	15.0	15.7	4.0	3.8	6.0	4.2
** "Old Fort Brand" 15% Protein All Mash	15.0	15.6	4.0	<u>3.4</u>	6.0	4.0 **
"Hopper" Stock Feed	12.0	14.2	3.5	3.7	6.0	5.9
ALABAMA FLOUR MILLS, DECATUR, ALABAMA						
"Mother's Best Brand" 18% Cow Feed	18.0	19.1	3.0	3.8	10.0	6.8
ALBANY MILLS, ALBANY, KENTUCKY						
Clinton 20% Dairy Feed	20.0	22.5	3.5	3.9	9.5	5.0
Mixed Feed	11.5	13.1	3.0	2.8	5.5	5.1
Mixed Feed	11.5	13.0	3.0	2.8	5.5	5.6
ALLEN COUNTY MILL, SCOTTSVILLE, KENTUCKY						
Alco Pig and Hog Feed	15.0	14.8	3.5	4.8	6.0	5.9
ALLIED MILLS, INC. CHICAGO, ILLINOIS						
Wayne Universal Turkey Breeder Mash	22.0	23.3	3.0	4.1	8.0	5.8
** Wayne Chick Starter	20.0	<u>19.0</u>	3.0	4.4	5.5	3.3 **
Wayne Chick Starter	20.0	<u>20.3</u>	3.0	3.5	5.5	4.0
Wayne Starter and Grower (For Chick and Ducklings)	18.0	19.5	2.5	4.2	7.0	6.4
Broiler Feed	20.0	19.8	3.5	3.7	4.0	2.8
Wayne Egg Mash	20.0	21.4	3.0	4.3	8.0	7.1
Wayne Egg Mash	20.0	19.5	3.0	3.8	8.0	5.3
Wayne Egg Mash	20.0	22.5	3.0	3.3	8.0	6.4
Wayne Mash Layer	20.0	23.0	3.0	3.4	8.0	7.0
Wayne Universal Egg "S" (An All Mash Feed)	17.0	17.6	2.5	3.5	8.0	6.0
Wayne 32% Dairy Supplement	32.0	33.2	3.0	4.1	8.0	8.5
Calcium	1.5	1.6				
Phosphorus	.7	1.1				
Iodine	.0008					
Salt	2.5	1.0				
Wayne 24% Protein Dairy Feed	24.0	26.6	3.0	3.2	8.0	6.3
Wayne 24% Protein Dairy Feed	24.0	24.9	3.0	3.0	8.0	5.4
Wayne 16% Dairy Feed	16.0	19.7	3.0	4.0	13.0	9.9
Sugarine 16% Dairy Feed (South)	16.0	16.6	2.5	2.2	15.0	9.7
** Sugarine 16% Dairy Feed (South)	16.0	17.0	2.5	<u>1.6</u>	15.0	10.5 **
Sugarine 16% Dairy Feed	16.0	16.3	2.5	<u>3.1</u>	12.0	9.4
Sugarine 16% Dairy Feed	16.0	17.2	2.5	2.9	12.0	7.5
Wayne Roughage Supplement "A"	32.0	36.1	2.0	3.1	7.0	5.0
Calcium	1.5	2.2				
Phosphorus	.8	1.1				
Salt	2.5	0.7				
Wayne Roughage Supplement "A"	32.0	32.5	2.0	2.6	7.0	5.9
Wayne Pig and Sow Meal	20.0	23.7	3.0	3.7	6.0	5.8
Wayne Tail Curler For Pig and Hogs	18.0	18.9	3.0	3.7	5.0	3.4

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
ALLIED MILLS, INC. CHICAGO, ILLINOIS (Cont'd)						
Wayne Horse Feed	9.0	10.9	2.5	2.4	12.0	6.9
Sucrene Horse Feed	9.0	10.3	2.5	3.9	10.0	5.6
AMERICAN CRYSTAL SUGAR COMPANY, MASON CITY, IOWA						
Molasses Dried Beet Pulp	8.0	9.9	.3	0.3	20.0	17.8
AMERICAN CYANAMID COMPANY, LEDERLE ANIMAL FEED DIVISION, NEW YORK, NEW YORK						
Fortafeed Brand Feed Supplement 2-22C	25.0	29.6	2.0	6.4	7.0	3.0
ANDERSON AND SPILMAN, DANVILLE, KENTUCKY						
Snowflake Feed	12.5	13.5	3.5	4.1	8.0	6.2
ANGLO SWEET FEED MILL, OWENSBORO, KENTUCKY						
"Ace Perfection Brand" Scratch Grains	9.5	9.9	3.0	2.9	3.5	2.1
"Ace Perfection Brand" 40% Protein Pig and and Hog Supplement	40.0	40.8	2.0	4.1	8.0	6.7
ANIMAL FOUNDATION, INC. SHERBURNE, NEW YORK						
** "Hunt Club Brand" Dog Food	25.0	<u>23.2</u>	5.0	5.9	4.0	2.7 **
APEX MILLING COMPANY, TOLEDO, OHIO						
** "Apex White Brand" 24% Dairy Feed Contained mixed screenings.	24.0	26.2	2.5	2.1	15.0	10.0 **
** White Tag 16% Dairy Feed Contained mixed screenings.	16.0	19.2	2.5	2.4	15.0	10.0 **
Apex 16% Dairy Feed	16.0	21.4	2.5	2.8	15.0	12.4
ARCADY FARMS MILLING COMPANY, CHICAGO, ILLINOIS						
Wonderfat Brand 14% Protein Station Feed	14.0	14.8	3.5	4.2	7.0	6.9
** Arcady 16% Protein Dairy Feed	16.0	17.1	2.5	<u>1.8</u>	13.5	10.7 **
Arcady 30% Protein Cattle Supplement A	30.0	32.6	1.0	<u>1.3</u>	8.0	5.0
ARCHER - DANIELS - MIDLAND COMPANY, MINNEAPOLIS, MINNESOTA						
44% Protein Solvent Extracted Soybean Oil Meal	44.0	45.4	0.5	1.2	7.0	5.6
AUBREY AND COMPANY, LOUISVILLE, KENTUCKY						
Red "A" 20% Protein All Mash Starter and Grower	20.0	22.6	3.5	3.4	7.0	5.0
Red "A" 20% Protein All Mash Starter And Grower	20.0	21.9	3.5	3.4	7.0	5.0
Red "A" 20% Protein All Mash Starter And Grower	20.0	21.4	3.5	3.7	7.0	5.1
Red "A" H. E. Broiler Finisher	17.5	22.5	3.0	3.5	4.0	3.4
Red "A" 20% Breeder Mash	20.0	21.9	3.5	3.5	8.0	5.6
Red "A" 20% Laying Mash	20.0	21.4	3.0	3.5	8.0	5.8
Red "A" 20% Laying Mash	20.0	21.0	3.0	3.2	8.0	5.0
Red "A" 20% Laying Mash	20.0	21.7	3.0	3.4	8.0	5.4
Red "A" 20% Laying Mash	20.0	20.9	3.0	3.6	8.0	5.5
** Red "A" Poultry Scratch Feed Contained corn cackle.	8.0	9.1	2.5	2.9	5.0	1.9 **
Red "A" 32% Protein Dairy Supplement	32.0	37.0	3.0	3.7	8.5	6.4
Red "A" 32% Protein Dairy Supplement	32.0	35.0	3.0	3.5	8.5	6.5
Red "A" 32% Protein Dairy Supplement	32.0	35.4	3.0	3.5	8.5	6.5
Red "A" 24% Protein Dairy Feed	24.0	25.5	3.0	3.8	10.0	6.7
Red "A" 24% Protein Dairy Feed	24.0	25.5	3.0	3.8	10.0	6.5

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
AUBREY AND COMPANY, LOUISVILLE, KENTUCKY (Cont'd)						
Red "A" 24% Protein Dairy Feed	24.0	23.9	3.0	3.6	10.0	7.0
Red "A" 24% Protein Dairy Feed	24.0	27.4	3.0	3.7	10.0	6.6
Red "A" 20% Protein Dairy Feed	20.0	22.6	3.0	4.0	10.0	6.3
Red "A" 20% Protein Dairy Feed	20.0	23.0	3.0	4.0	10.0	4.4
Red "A" 18% Protein Dairy Feed	18.0	20.3	3.0	3.7	8.0	6.4
Red "A" 18% Protein Dairy Feed	18.0	20.0	3.0	4.8	8.0	6.7
Red "A" 18% Protein Dairy Feed	18.0	20.9	3.0	4.0	8.0	6.0
** Red "A" Steer Concentrate	33.0	36.5	1.5	2.1	6.0	5.1 **
Calcium	3.0	3.4				
Phosphorus	1.4	1.0				
Iodine	.0083					
Salt	2.0	3.1				
Excess salt and urea.						
Red "A" 16% Protein Sheep Feed	16.0	16.1	2.5	3.1	11.0	7.5*
Red "A" 16% Protein Sheep Feed	16.0	16.5	2.5	3.5	11.0	7.3
Red "A" 40% Protein and Mineral						
Hog Supplement	40.0	40.1	1.0	1.5	7.0	5.4
Calcium	3.0	3.1				
Phosphorus	.8	1.1				
Salt	3.0	2.8				
Red "A" 40% Protein and Mineral						
Hog supplement	40.0	40.2	1.0	1.7	7.0	5.2
Calcium	3.0	4.0				
Phosphorus	.8	1.0				
Salt	3.0	2.4				
Red "A" 40% Protein and Mineral						
Hog Supplement	40.0	41.0	1.0	1.5	7.0	4.8
Calcium	3.0	4.2				
Phosphorus	.8	1.1				
Salt	3.0	2.7				
Red "A" 18% Protein Sow and Pig Feed	18.0	20.1	3.0	3.6	6.0	5.4
Red "A" 18% Protein Sow and Pig Feed	18.0	21.6	3.0	4.3	6.0	5.6
Red "A" 18% Protein Sow and Pig Feed	18.0	20.4	3.0	4.3	6.0	5.3
Red "A" 18% Protein Sow and Pig Feed	18.0	21.2	3.0	4.7	6.0	6.0
Red "A" 18% Protein Sow and Pig Feed	18.0	20.9	3.0	5.0	6.0	5.8
Red "A" Hog Fattener	14.0	14.6	3.0	4.1	8.0	5.0
Red "A" Hog Fattener	14.0	16.1	3.0	5.0	8.3	5.3
Red "A" Horse Feed	10.0	11.0	3.0	3.1	10.0	7.7
Red Special Brand Horse Feed	9.0	10.5	3.0	3.5	8.0	5.6
Red "A" Special Brand Horse Feed	9.0	10.2	3.0	3.5	8.0	4.7
** Red "A" Special Brand Horse Feed	9.0	10.7	3.0	3.7	8.0	5.7 **
Contained unground weed seeds.						
Red "A" Rabbit Pellets	14.5	16.4	3.0	3.3	12.0	7.4
Hominy Meal	10.0	10.6	5.0	6.4	6.0	4.0
Red A Wheat Gray Shorts and Screenings	15.0	17.1	3.5	4.2	6.0	6.4
Red A Wheat Gray Shorts and Screenings	15.0	17.4	3.5	4.4	6.0	6.1
Wheat Bran	14.5	16.4	3.5	4.1	10.0	9.2
Aubrey's 44% Protein Solvent Extracted						
Soybean Oil Meal	44.0	47.7	.5	0.5	7.0	5.7
Aubrey's 44% Protein Solvent Extracted						
Soybean Oil Meal	44.0	47.8	.5	0.6	7.0	5.0
Oat Hull Feed and Molasses	3.0	6.8	1.0	0.6	24.5	21.7
Oat Hull Feed and Molasses	3.0	5.1	1.0	1.4	24.5	24.2
THE AUBURN MILLS, INC. AUBURN, KENTUCKY						
Screened Corn Chop	8.0	8.1	3.5	3.5	3.0	1.6

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
THE AUBURN MILLS, INC. AUBURN, KENTUCKY (Contld)						
Mixed Feed	13.5	13.9	3.5	3.5	7.5	5.9
Mixed Feed	13.5	14.0	3.5	3.7	7.5	5.2
Mixed Feed	13.5	13.9	3.5	3.4	7.5	5.6
AUGIE'S HATCHERY, MADISONVILLE, KENTUCKY						
Nitrosal in "Augie's Quality Brand"						
Chick Starter	20.0	22.1	3.0	4.0	7.0	5.6
BAGDAD ROLLER MILLS, BAGDAD, KENTUCKY						
"Harrison's Nat-Ur-Way 20% Protein						
Laying Mash	20.0	21.9	3.5	3.5	7.5	6.6
"Harrison's Nat-Ur-Way" 20% Protein						
Laying Mash	20.0	20.6	3.5	4.4	7.5	6.8
"Harrison's Hen Scratch	9.0	8.9	2.0	2.5	3.0	1.7
** "Harrison's Nat-Ur-Way" 24% Dairy Feed	24.0	24.9	3.0	2.0	12.5	8.8 **
** Hominy Meal	9.0	8.3	6.0	6.2	8.0	7.2 **
** "Harrison's Nat-Ur-Way" 24%	24.0	<u>22.8</u>	3.0	<u>1.7</u>	12.0	8.5 **
BAL TIC MILLS, VINCENNES, INDIANA						
"Knox County" Hominy Feed	10.0	9.9	7.0	7.5	6.0	3.6
BARDSTOWN MILLS, BARDSTOWN, KENTUCKY						
"Blue Ribbon" 20% Protein Dairy Feed	20.0	22.7	3.0	5.4	9.0	7.0
BAUGHMAN MILLING COMPANY, STANFORD, KENTUCKY						
** Banner Mixed Feed	11.0	10.9	3.5	4.4	11.0	5.0 **
Contained mixed screenings.						
** Banner Mixed Feed	11.0	11.1	3.5	3.8	11.0	5.8 **
Contained unground weed seeds and mixed screenings.						
Hominy Feed	10.0	9.8	5.0	4.8	6.0	4.7
BEAVER DAM MILLING COMPANY, BEAVER DAM, KENTUCKY						
Eureka 20% Starting Mash	20.0	21.2	3.0	4.5	6.5	4.3
Eureka 20% Laying Mash	20.0	20.4	3.0	4.1	6.5	5.0
Snow Drift 19% Laying Mash	19.0	21.2	3.0	4.4	7.5	3.9
Snow Drift 19% Protein Laying Mash	19.0	18.7	3.0	4.0	7.5	4.7
Eureka Scratch Feed	8.0	8.9	2.5	2.6	3.0	1.6
Eureka 24% Dairy Feed (with urea)	24.0	24.5	3.0	3.0	10.0	6.4
Eureka Special 16% Dairy Feed	16.0	18.6	3.0	3.8	10.0	4.3
Eureka 16% Dairy Feed (with urea)	16.0	17.3	3.0	3.6	15.0	7.7
Eureka 16% Dairy Feed (with urea)	16.0	19.5	3.0	3.9	15.0	8.2
16% Sweet Miss Dairy Feed	16.0	17.1	2.5	2.7	15.0	7.8
** 16% Sweet Miss Dairy Feed	16.0	<u>15.3</u>	2.5	2.6	15.0	7.2 **
Eureka 16% Protein Pig and Hog Ration	16.0	<u>16.2</u>	3.0	4.0	6.0	4.4
BENSON VALLEY MILLING COMPANY, FRANKFORT, KENTUCKY						
** 16-1/2% Protein Dairy Feed	16.5	<u>15.9</u>	3.0	4.3	10.0	7.1 **
BI-COUNTY FARM BUREAU COOPERATIVE ASSOCIATION, ERLANGER, KENTUCKY						
Co-op Pailfiller Brand 20% Dairy Feed	20.0	19.8	3.0	2.5	9.0	5.3
BIG FOUR MILLS, COVINGTON, KENTUCKY						
Big Four 20% Protein Starter and Grower						
Mash	20.0	22.8	3.0	3.4	7.0	6.4
Big Four sifted Cracked Corn	8.0	8.4	3.5	3.8	3.0	1.6
** Big Four 24% Dairy Feed	24.0	<u>21.0</u>	3.0	2.5	12.0	9.0 **
Below guaranty in protein.						
** "O. K. Brand" 24% Protein Dairy Feed	24.0	23.2	2.5	3.1	15.0	10.9 **

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
BIG FOUR MILLS, COVINGTON, KENTUCKY (Cont'd)						
Kentucky Hi-Lo 24% Dairy Feed	24.0	25.1	2.5	3.2	12.0	10.4
Kentucky Hi-Lo 24% Dairy Feed	24.0	23.7	2.5	3.1	12.0	11.1
"O. K. Brand" 16% Protein Dairy Feed	16.0	16.7	2.5	3.4	15.0	11.8
"O. K. Brand" 16% Protein Dairy Feed	16.0	16.5	2.5	3.6	15.0	12.6
** "O. K. Brand" 16% Protein Dairy Feed	16.0	15.0	2.5	4.5	15.0	12.2 **
"O. K. Brand" 16% Protein Dairy Feed	16.0	18.3	2.5	3.1	15.0	11.3
** Big Four 20% Protein Hog Feed	20.0	19.1	3.0	4.0	8.0	5.2 **
Big Four 20% Protein Hog Feed	20.0	22.3	3.0	3.3	8.0	5.6
Big Four Horse Feed	9.0	9.2	3.0	3.1	9.0	7.7
** Solvent Extracted Soybean Oil Meal	44.0	47.1	1.0	0.4	6.0	4.4 **
BLISH MILLING COMPANY, SEYMOUR, INDIANA						
"Bull's Eye" Wheat Brown Middlings And Screenings	16.0	16.0	4.0	4.0	7.5	7.7
"Bull's Eye" Wheat Brown Middlings And Screenings	16.0	16.3	4.0	4.1	7.5	7.8
BREMCO ALFALFA MILLS, INC. NEW BREMEN, OHIO						
** Bremco Alfalfa Meal	13.0	11.4	1.5	2.0	33.0	29.0
** Bremco Alfalfa Meal	13.0	12.1	1.0	1.6	33.0	31.2 **
17% Medogreen Alfalfa Meal	17.0	17.1	1.5	2.5	27.0	26.8
BRODE CORPORATION, MEMPHIS, TENNESSEE						
Owl Brand 41% Prime Cottonseed Meal	41.0	42.8	5.0	4.7	13.0	8.7
W. H. BROCK AND COMPANY, WINCHESTER, KENTUCKY						
Cracked Corn	7.0	8.8	3.0	3.7	3.0	1.6
BROWDER'S MILLING COMPANY, FULTON, KENTUCKY						
Browder's Starting and Growing All Mash	18.0	18.2	2.5	4.1	7.0	4.6
16% Sweet Dairy Feed	16.0	16.0	3.0	4.3	15.0	8.6
"Beats All Brand" Horse and Mule Feed	10.0	10.8	2.0	2.6	15.0	5.9
BROWN - FORMAN DISTILLERS CORPORATION, LOUISVILLE, KENTUCKY						
** "Brown-Forman Super Sol Brand" Corn Distillers Dried Solubles	24.0	27.8	8.0	5.8	4.0	4.2 **
** "Brown-Forman Super Sol Brand" Corn Distillers Dried Solubles	24.0	28.2	8.0	6.7	4.0	4.8 **
THE BUCKEYE COTTON OIL COMPANY, CINCINNATI, OHIO						
Buckeye 41% Protein Solvent Extracted Cottonseed Meal	41.0	41.9	1.0	3.0	13.0	11.1
Buckeye 44% Protein Solvent Extracted Soybean Oil Meal	44.0	47.2	.5	1.0	7.0	4.8
BUHNER AND COMPANY, LOUISVILLE, KENTUCKY						
Happy Farmer 20% Protein Laying Mash	20.0	21.5	2.5	3.7	8.0	7.0
"Buhner's" Happy Farmer Brand Scratch Feed	9.0	8.6	3.0	4.9	5.0	1.7
Happy Farmer 24% Protein Dairy Feed	24.0	24.6	2.5	3.1	10.0	6.4
Magnolia 24% Dairy Feed	24.0	24.4	2.5	3.5	12.0	10.8
Happy Farmer 20% Protein Dairy Feed	20.0	23.1	2.5	2.5	10.0	5.9
Happy Farmer 20% Protein Dairy Feed	20.0	22.0	2.5	2.5	10.0	5.5
Happy Farmer 16% Protein Dairy Feed	16.0	17.3	2.5	3.1	10.0	6.5
Happy Farmer 16% Protein Dairy Feed	16.0	17.9	2.5	3.2	10.0	5.9
Happy Farmer 16% Protein Dairy Feed	16.0	18.3	2.5	3.5	10.0	6.2
Magnolia Sweet 16% Dairy Feed	16.0	16.1	2.5	3.5	15.0	10.6
"Magnolia White Brand" 16% Dairy Feed	16.0	15.1	2.5	3.1	15.0	11.9

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
BUHNER AND COMPANY, LOUISVILLE, KENTUCKY (Cont'd)						
Happy Farmer Horse and Mule Feed	9.0	9.6	2.5	3.6	12.0	5.7
BUTTS MILLING COMPANY, FULTON, KENTUCKY						
Butts Egg Mash	20.0	20.3	3.0	3.1	8.0	5.5
CADIZ MILLING COMPANY, CADIZ, KENTUCKY						
"Sunbeam" 20% Starting Mash	20.0	21.0	3.0	5.0	6.0	5.0
** "Sunbeam" 16% Dairy Feed	16.0	15.0	3.5	3.4	12.0	5.9**
** Sugarine Sweet Dairy Feed	16.0	14.9	3.0	2.4	10.0	9.8**
CALLOWAY COUNTY SOIL IMPROVEMENT ASSOCIATION, MURRAY, KENTUCKY						
"Co-op" Crushed Corn, Cob and Shuck	7.0	7.7	3.0	3.1	11.0	7.3
C. W. CANN, CLARKSON, KENTUCKY						
Cann's 20% Laying Mash	20.0	21.1	3.0	5.0	8.0	7.3
CARGILL, INC. FALK DIVISION, MINNEAPOLIS, MINNESOTA						
** Cargill Northwest 32% Expeller Linseed Oil Meal	32.0	32.3	3.5	4.8	9.5	10.7**
CENTRAL SOYA COMPANY, INC. FORT WAYNE, INDIANA						
"Central Star Brand" 44% Protein Solvent Extracted Soybean Oil Meal	44.0	46.1	.5	1.8	7.0	5.1
Central Sweet Solvent Extracted Soybean Oil Meal with 3% Molasses	44.0	45.7	.4	1.1	7.0	5.5
CHESTNUT AND ANDERSON FEED MILL COMPANY, HOPKINSVILLE, KENTUCKY						
Little River Roughage Beef Supplement "A"	30.0	36.7	1.0	1.3	10.0	7.5
THE CINCINNATI GRAIN AND HAY COMPANY, CINCINNATI, OHIO						
"No-Better Brand" 16% Protein Sweet Dairy Feed	16.0	15.7	3.0	3.2	11.0	9.5
CITIZENS MILLING COMPANY, SOMERSET, KENTUCKY						
16% Cumberland Mixed Feed	16.0	17.6	2.5	3.6	10.0	8.5
CLARKSON MILLING COMPANY, CLARKSON, KENTUCKY						
"Fidelity Brand" 20% Protein Laying Mash	20.0	22.6	3.5	4.1	7.0	5.0
"Fidelity Brand" 18% Protein Pig and Hog Ration	18.0	20.0	3.5	4.0	6.0	5.0
CLIFTY FALLS MILLS, MADISON, INDIANA						
Clifty Falls 20% Protein Chick Starter	20.0	21.6	3.5	4.3	6.0	5.6
Clifty Falls 17% Protein Starter and Grower	17.0	17.9	3.5	4.5	7.0	5.4
Clifty Falls 20% Protein Egg Mash	20.0	21.6	3.5	5.0	7.0	5.6
Clifty Falls 20% Protein Egg Mash	20.0	20.6	3.5	4.6	7.0	5.9
Clifty Falls Scratch Feed	9.0	8.8	3.0	3.7	5.0	2.5
** Clifty Falls 24% Protein Dairy Feed Contained ground ear corn.	24.0	24.8	3.0	3.7	10.0	6.3**
Clifty Falls 24% Protein Dairy Feed	24.0	24.7	3.0	3.6	10.0	8.3
** Clifty Falls 24% Dairy Feed Contained ground ear corn.	24.0	27.2	3.0	3.4	10.0	7.3**
Clifty Falls 24% Protein Dairy Feed	24.0	26.3	3.0	3.6	10.0	7.6
Clifty Falls 24% Protein Cow Feed	24.0	27.0	2.5	3.3	10.0	6.3
Clifty Falls 24% Protein Cow Feed	24.0	27.1	2.5	4.1	10.0	7.3
Clifty Falls 24% Protein Cow Feed	24.0	26.3	2.5	3.3	10.0	6.4
** Clifty Falls 20% Protein Dairy Feed	20.0	18.8	3.0	3.7	12.0	6.5**

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Regulatory Bulletin No. 106

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
CLIFTY FALLS MILLS, INC., MADISON, INDIANA						
Clifty Falls 20% Protein Dairy Feed	20.0	20.6	3.0	4.1	12.0	6.7
"Clifty Falls Pusher Brand" 16% Protein Dairy Feed	16.0	21.5	2.5	4.1	10.0	7.0
"Clifty Falls Pusher Brand" 16% Protein Dairy Feed	16.0	19.5	2.5	4.1	10.0	8.3
Clifty Falls 16% Protein Cow Feed	16.0	20.1	3.0	3.7	15.0	6.3
** Clifty Falls 15% Protein Sheep Feed	15.0	16.0	3.5	2.9	9.5	5.5**
Clifty Falls 40% Hog Supplement	40.0	41.4	2.5	3.0	7.5	5.6
Clifty Falls 18% Protein Pig and Sow Feed	18.0	21.6	3.5	4.9	6.0	5.1
Clifty Falls Horse and Mule Feed	10.0	10.5	2.5	4.0	10.0	3.7
Clifty Falls Cracked Corn	9.0	8.7	3.0	3.8	3.5	1.8
Clifty Falls Crushed Ear Corn and Molasses	7.0	8.5	2.5	2.8	10.0	6.1
Clifty Falls Crushed Ear Corn and Molasses	7.0	9.2	2.5	2.8	10.0	5.6
CLINTON HATCHERY, CLINTON, KENTUCKY						
New Deal Brand 17% Protein Cow Feed	17.0	16.9	3.5	3.4	10.0	8.4
** Sun-Ray 24% Protein Dairy Feed	24.0	26.7	3.0	4.3	8.0	8.7**
Climco 16% Dairy Feed	16.0	17.4	3.0	3.2	13.0	11.0
CLIMAX ROLLER MILLS, SHELBYVILLE, KENTUCKY						
Climax Scratch Feed	9.0	9.3	2.5	2.8	3.0	1.8
CLELL COLEMAN AND SON, BURGIN, KENTUCKY						
Coleman's Pig and Hog Feed	16.5	17.5	3.5	4.3	6.0	5.4
Coleman's Pig and Hog Feed	16.5	17.3	3.5	4.2	6.0	5.6
Big Blue Stock Feed	16.5	16.5	3.5	4.7	6.5	5.7
** Coleman's Favorite Feed	15.0	14.8	3.5	4.4	8.5	6.0**
Contained Mixed Screenings						
Coleman's Favorite Feed	15.0	16.0	3.5	4.1	8.5	6.8
THE COLORADO MILLING AND ELEVATOR COMPANY, DENVER., COLORADO						
Wheat Gray Shorts and Screenings	16.0	16.8	3.5	5.2	6.0	5.0
COMMERICAL SOLVENTS CORPORATION, TERRE HAUTE, INDIANA						
** B-Y-21 Dried Grain and Skimmed Milk						
Fermentation Solubles	28.0	32.0	2.0	4.7	5.0	6.0**
COMMUNITY MILLS, BELTON, KENTUCKY						
Johnson's Chick Starter	20.0	21.7	2.5	2.9	7.0	4.8
Johnson's Egg Mash	20.0	19.8	2.5	3.5	7.0	6.0
COMMUNITY MILLING COMPANY, IRVINGTON, KENTUCKY						
"Our Pride" 20% All Mash Starter and Grower	20.0	21.9	3.0	3.5	6.5	5.1
** "Our Pride" 20% Dairy Feed	20.0	21.0	3.0	2.0	15.0	9.0**
Contained Corn Cob						
"Our Pride" 18% Protein Pig and Sow Feed	18.0	18.4	3.0	2.9	6.0	5.0
Soft Wheat Feed with Screenings	14.0	14.7	3.0	3.5	9.0	6.2
COOPERATIVE MILLS, INC. CINCINNATI, OHIO						
32% Protein and Mineral Poultry Supplement	32.0	34.7	2.0	2.0	8.0	6.5
Calcium	4.5	4.1				
Phosphorus	1.5	1.6				
Iodine	.001					
Salt	2.5	2.6				

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
COOPERATIVE MILLS, INC., CINCINNATI, OHIO (cont'd)						
Starting and Growing Mash	20.0	21.4	3.0	3.2	7.0	4.8
Starting and Growing Mash	20.0	20.6	3.0	3.7	7.0	5.1
Starting and Growing Mash	20.0	21.6	3.0	3.4	7.0	4.6
Starting and Growing Mash	20.0	19.6	3.0	3.5	7.0	4.7
Broiler Maker	22.0	22.3	3.0	3.5	5.0	3.3
Arsenilic Acid in Broiler Maker Finisher	17.0	18.4	3.0	3.8	5.0	3.8
Super Breeding Mash	20.0	21.8	3.0	4.1	8.0	5.8
Super Breeding Mash	20.0	21.1	3.0	5.0	8.0	5.2
Super Laying Mash	20.0	21.6	3.0	3.3	8.0	5.3
Super Laying Mash	20.0	22.1	3.0	3.7	8.0	5.7
Super Laying Mash	20.0	21.3	3.0	3.7	8.0	5.6
Egg Maker	20.0	20.5	3.0	4.2	8.0	5.3
Egg Maker	20.0	21.1	3.0	3.3	8.0	5.4
Egg Maker	20.0	21.0	3.0	3.4	8.0	5.4
Egg Maker	20.0	21.8	3.0	3.9	8.0	5.2
Egg Maker	20.0	20.6	3.0	3.1	8.0	5.2
Super Coarse Scratch	9.0	10.2	2.0	2.7	3.0	1.8
Milk Maker Brand 32% Dairy Supplement	32.0	34.9	3.0	4.5	10.0	5.5
Milk Maker Brand 32% Dairy Supplement	32.0	37.4	3.0	4.7	10.0	4.9
Milk Maker Brand 32% Dairy Supplement	32.0	37.1	3.0	4.7	10.0	5.2
Milk Maker Brand 32% Dairy Supplement	32.0	36.1	3.0	4.5	10.0	5.8
Milk Maker Brand 24% Dairy Feed	24.0	25.9	3.5	3.2	10.0	5.7
Milk Maker Brand 24% Dairy Feed	24.0	28.0	3.5	4.4	10.0	5.9
Milk Maker Brand 24% Dairy Feed	24.0	26.7	3.5	3.4	10.0	5.8
Milk Maker Brand 24% Dairy Feed	24.0	27.3	3.5	4.8	10.0	5.7
Milk Maker Brand 20% Dairy Feed	20.0	22.4	3.5	4.8	10.0	7.1
Milk Maker Brand 20% Dairy Feed	20.0	22.6	3.5	4.5	10.0	7.2
Milk Maker Brand 20% Dairy Feed	20.0	22.6	3.5	4.4	10.0	7.3
Milk Maker Brand 20% Dairy Feed	20.0	22.8	3.5	4.7	10.0	7.4
20% Dairy Feed	20.0	22.7	3.0	3.3	12.0	8.5
20% Drought Special Dairy Feed	20.0	22.6	3.0	3.4	12.0	8.4
Milk Maker Brand 16% Dairy Feed	16.0	18.5	3.5	4.7	10.0	7.0
Milk Maker Brand 16% Dairy Feed	16.0	19.3	3.5	3.9	10.0	6.7
16% Utility Dairy	16.0	19.6	3.0	3.4	15.0	13.5
16% Utility Dairy	16.0	18.7	3.0	3.3	15.0	13.8
16% Milk-Flo Dairy Feed (Coarse Mixture)	16.0	17.8	3.5	3.9	10.0	7.5
16% Milk-Flo Dairy Feed (Coarse Mixture)	16.0	18.3	3.5	4.2	10.0	10.0
16% Milk-Flo Dairy Feed (Coarse Mixture)	16.0	18.0	3.5	4.3	10.0	7.7
"Special Brand" 16% Dairy Feed	16.0	17.6	3.0	2.6	15.0	14.1
"Special Brand 16% Dairy Feed	16.0	19.7	3.0	3.8	15.0	9.5
Fitting Feed	13.0	15.5	3.5	4.2	10.0	7.0
Beef Supplement	30.0	31.8	2.0	2.7	11.0	10.0
Calcium	1.7	1.5				
Phosphorus	1.0	0.9				
Iodine	.0001					
Salt	2.5	2.4				
Beef Supplement	30.0	33.9	2.0	3.5	11.0	9.1
Calcium	1.7	1.8				
Phosphorus	1.0	1.3				
Iodine	.0001					
Salt	2.5	2.7				
Beef Supplement	30.0	34.0	2.0	3.4	11.0	10.0
Calcium	1.7	1.6				
Phosphorus	1.0	1.0				
Iodine	.0001					
Salt	2.5	2.5				

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Regulatory Bulletin No. 106

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
COOPERATIVE MILLS, INC. CINCINNATI, OHIO (Cont'd)						
Sweet Stock Feed	9.0	11.4	2.5	3.8	9.0	4.9
Sweet Stock Feed	9.0	12.4	2.5	3.7	9.0	5.5
Sweet Stock Feed	9.0	11.7	2.5	3.6	9.0	5.5
Sweet Stock Feed	9.0	12.1	2.5	3.3	9.0	5.4
40% Pork Maker (Hogs on Pasture)	40.0	41.7	1.5	2.6	8.5	4.8
40% Pork Maker (Hogs on Pasture)	40.0	41.8	1.5	1.7	8.5	4.9
Calcium	3.5	3.9				
Phosphorus	1.2	1.5				
SALT	2.0	2.0				
** 40% Pork Maker (Hogs on Pasture)	40.0	40.9	1.5	2.5	8.5	5.6**
Calcium	3.5	3.9				
Phosphorus	1.2	1.4				
Salt	2.0	2.1				
Contained Mixed screenings.						
35% Sow and Pig Supplement	35.0	36.3	1.2	2.3	8.5	6.9
Calcium	3.0	4.0				
Phosphorus	1.0	1.2				
Salt	2.0	1.7				
35% Sow and Pig Supplement	35.0	37.1	1.2	2.1	8.5	6.7
Calcium	3.0	3.0				
Phosphorus	1.0	1.1				
Salt	9.3	1.8				
20% Pig and Sow Feed (Hogs not on pasture)	20.0	21.8	3.5	3.8	6.0	4.8
15% Pork Maker	15.0	15.1	3.5	4.4	8.0	4.6
15% Pork Maker	15.0	16.0	3.5	4.0	8.0	4.8
15% Pork Maker	15.0	14.6	3.5	4.1	8.0	4.2
** 15% Pork Maker	15.0	14.1	3.5	4.2	8.0	4.8**
24% Protein Dog Feed	24.0	26.0	4.0	5.0	5.0	3.3
Screened Coarse Cracked Corn	8.0	8.0	1.5	3.0	2.5	1.4
Wheat Red Dog	16.0	18.0	3.5	4.5	4.0	3.3
41% Protein Soybean Oil Meal	41.0	42.8	3.5	4.6	7.0	5.7
41% Protein Soybean Oil Meal	41.0	44.5	3.5	5.4	7.0	5.3
** 41% Protein Cottonseed Meal	41.0	39.0	5.0	7.0	13.0	11.1**
Very much below guaranty in protein.						
Hominy Feed	9.0	10.6	5.0	6.2	6.0	4.8
CRESCENT ROLLER MILLS, TAYLORSVILLE, KENTUCKY						
** Crescent 20% Laying Mash	20.0	19.4	2.5	4.0	7.0	4.6**
** Crescent 24% Dairy Feed	24.0	21.5	3.0	2.7	10.0	7.6**
Below guaranty in protein.						
Crescent 20% Dairy Feed	20.0	19.6	3.0	2.7	12.0	6.5
Special Mix 16% Dairy	16.0	16.0	3.0	2.9	10.0	6.0
** Crescent Stock Feed	14.0	13.3	4.5	4.3	6.0	3.6**
CUNDIFF MILLING COMPANY, COLUMBIA, KENTUCKY						
** Scratch Feed (Coarse)	9.0	9.3	3.0	2.4	5.0	1.8**
DAVIS ENTERPRISES INC. DAYTON, OHIO						
Davis 50% Super - Sar	50.0	52.7	6.0	8.2	4.0	4.2

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
DEARBORN MILLS, AURORA, INDIANA						
Dearborn 20% Starter and Grower	20.0	20.7	3.0	4.8	7.0	6.4
"Success Brand" 20% Laying Mash	20.0	20.8	3.0	4.2	8.0	7.3
"Success Brand" 20% Laying Mash	20.0	21.4	3.0	4.7	8.0	6.8
Dearborn Special 32% Dairy	32.0	32.4	2.5	4.0	10.5	7.8
Calcium	3.0	1.8				
Phosphorus	.3	1.0				
Iodine	.0002					
Salt	2.0	2.5				
Dearborn Sweet 24% Dairy	24.0	24.2	2.5	3.1	12.5	9.8
Dearborn Sweet 24% Dairy	24.0	24.8	2.5	3.8	12.5	8.8
Dearborn Sweet 16% Dairy	16.0	18.6	2.5	2.0	15.0	12.8
"Dearborn Special Brand" 16% Dairy Feed	16.0	18.5	2.5	3.7	10.0	7.9
Dearborn Horse and Mule Feed	9.0	10.3	2.5	2.4	12.5	7.0
Dearborn Wheat Bran & Screenings	14.5	16.0	3.7	4.0	10.0	9.4
DECATUR SOY PRODUCTS, DECATUR, ILLINOIS						
"Illini Brand" 41% Protein Soybean Oil Meal	41.0	41.6	4.0	6.1	7.0	5.4
"Illini Brand" 41% Protein Soybean Oil Meal	41.0	42.9	4.0	4.6	7.0	5.5
** W. C. DICKEN, MENTOR, KENTUCKY						
** Sunny Grain Brand 20% Dairy Feed	20.0	18.3	3.5	4.6	9.0	7.5 **
DIXIE MILLS COMPANY, EAST ST. LOUIS, ILLINOIS						
Dixie 24% Dairy Feed	24.0	27.2	2.5	2.5	12.0	6.7
Dixie 16% Milking Feed	16.0	15.7	3.0	3.1	9.0	6.6
Dixie Cattle Supplement A	32.0	32.6	2.0	2.1	9.0	6.4
DOUTHITT AND SPILLMAN FEED MILL, WINGO, KENTUCKY						
Wingo Special Brand 18% Protein Pig and Sow Feed	18.0	20.4	4.0	4.4	6.0	5.0
DUNCAN-HUGHES AND COMPANY, LAGRANGE, KENTUCKY						
"Dairymaid" 32% Protein Dairy Feed Supplement	32.0	31.5	3.0	2.7	10.0	7.5
DYERSBURG OIL MILL COMPANY, DYERSBURG, TENNESSEE						
** Dyersburg 41% Protein Cottonseed Meal	41.0	40.3	6.0	6.0	12.0	11.0**
THE EARLY AND DANIELS COMPANY, CINCINNATI, OHIO						
Nitrofurazone in Tuxedo Starter and Developer Mash	17.0	18.2	3.0	5.1	7.0	6.1
Tuxedo Starter and Grower and Developer Mash	17.0	18.0	3.0	5.0	7.0	6.0
Nitrofurazone in Tuxedo Broiler Mash	20.0	19.8	3.0	4.3	5.5	4.9
Nitrofurazone in Tuxedo Broiler Mash	20.0	20.4	3.0	4.9	5.5	4.8
Tuxedo Broiler Finisher Mash	17.0	18.1	3.0	4.0	5.5	4.4
Tuxedo Broiler Finisher Mash	17.0	18.8	3.0	4.0	5.5	4.4
Tuxedo Egg Mash	20.0	22.0	3.0	4.8	8.0	7.4

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
THE EARLY AND DANIELS COMPANY, CINCINNATI, OHIO (cont'd)						
"Tuxedo Special Brand" Egg Mash	20.0	21.2	3.0	4.4	8.0	7.2
"Tuxedo Special Brand" Egg Mash	20.0	21.7	3.0	4.3	8.0	7.3
Tuxedo Special Egg Mash	20.0	22.6	3.0	4.1	8.0	7.6
Eadan Egg Mash	20.0	21.7	3.0	3.3	8.0	7.0
Eadan Egg Mash	20.0	20.2	3.0	4.0	8.0	7.0
Eadan Egg Mash	20.0	21.2	3.0	4.1	8.0	7.5
Tuxedo 24% Dairy Feed	24.0	24.1	3.0	3.1	9.0	7.1
Tuxedo 24% Dairy Feed	24.0	26.7	3.0	2.7	9.0	6.2
Tuxedo 24% Dairy Feed	24.0	25.6	3.0	2.8	9.0	6.4
"Tuxedo Special Brand" 24% Dairy Feed	24.0	25.5	3.0	3.1	12.0	10.3
Eadan 24% Dairy Feed	24.0	25.0	3.0	3.1	12.0	11.0
Tuxedo 20% Dairy Feed	20.0	21.8	3.0	3.5	9.50	7.3
Tuxedo 20% Dairy Feed	20.0	22.4	3.0	3.7	9.50	7.4
Tuxedo 18% Dairy Feed	18.0	19.6	3.0	3.7	10.0	7.7
Tuxedo 16% Dairy Feed	16.0	18.2	3.0	3.0	15.0	12.2
Tuxedo 16% Dairy Feed	16.0	17.8	3.0	3.0	15.0	12.7
Tuxedo 16% Dairy Feed	16.0	17.9	3.0	3.0	15.0	14.5
"Tuxedo Big Forty" Hog Supplement	40.0	41.5	2.5	2.8	7.0	5.3
Calcium	2.8	3.5				
Phosphorus	1.0	1.1				
Iodine		.00038				
Salt	1.2	1.7				
"Tuxedo Big Forty" Hog Supplement	40.0	40.5	2.5	3.0	7.0	6.0
Calcium	2.8	4.1				
Phosphorus	1.0	1.1				
Iodine		.00038				
Salt	1.2	1.8				
Tuxedo Big Swine Supplement	36.0	37.0	2.0	2.7	7.0	6.1
Calcium	5.1	4.9				
Phosphorus	1.3	1.1				
Iodine		.00038				
Salt	1.5	2.0				
Eadan Porkmaker	14.0	14.7	3.0	5.1	8.0	6.7
Tuxedo Chop (For horses, mules and for fitting Livestock)	9.0	10.3	3.0	3.3	10.0	7.6
"Tuxedo Special Brand" Chop	9.0	11.4	3.0	3.5	12.0	10.4
"Tux Sweet Rolls Brand" 45% Ground Mixed Screenings, Molasses Cottonseed Meal and Minerals	11.0	12.2	1.5	1.2	9.0	8.6
44% Protein Solvent Extracted Soybean Oil Meal	44.0	45.2	.5	1.1	7.0	4.9
EAST ST. LOUIS ALFALFA MILLS, EAST ST. LOUIS, ILLINOIS						
**Triple A Alfalfa Meal	13.0	12.9	1.0	1.4	33.0	34.0 **
ELAM GRAIN COMPANY, 4004 DUNCAN AVENUE, ST. LOUIS, MISSOURI						
Elam's Dried Brewers Grains	26.0	27.0	5.0	6.3	17.0	13.4
THE F. L. EMMERT COMPANY, CINCINNATI, OHIO						
"Molasso-Malt Brand" 22% Protein Dried Brewers Grains and Molasses	22.0	21.6	5.0	5.0	14.0	11.5

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Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
JOHN W. ESHELMAN AND SONS, LANCASTER, PENNSYLVANIA						
Eshelman Red Rose Starter and Grower	18.0	19.3	3.5	4.4	7.0	5.4
Eshelman Red Rose Laying Mash	20.0	20.2	3.5	3.9	8.0	5.9
Eshelman Red Rose Laying Mash	20.0	21.5	3.5	4.1	8.0	5.0
** Eshelman Red Rose 24% Protein Dairy Feed	24.0	27.3	3.5	<u>2.5</u>	9.5	6.9**
** Kentucky Challenge 24% Protein Dairy Feed	24.0	<u>22.6</u>	2.5	2.6	15.0	11.0**
** Eshelman Pennsy 16% Protein Dairy Feed	16.0	<u>15.3</u>	3.0	3.5	12.0	9.0 **
Eshelman Red Rose Hog Meal	18.0	19.0	3.5	4.6	8.0	6.8
Eshelman Lancaster Horse Feed	9.0	11.6	2.5	3.3	11.0	8.4
EWING MILL COMPANY, EWING, INDIANA						
Robertson Wheat Mixed Feed and Screenings	15.5	16.1	4.0	3.7	8.5	8.3
** "Robertson Brand" Hominy Feed Very much below guaranty in fat.	10.0	9.7	7.0	<u>5.0</u>	6.0	4.3**
** 60% Protein Tankage	60.0	<u>59.0</u>	5.0	9.1	4.0	1.2**
EXCELSIOR MILLING COMPANY, MINNEAPOLIS, MINNESOTA						
Camel Hard Wheat Mixed Feed	15.0	15.6	4.0	5.2	9.5	7.3
FAMOUS FEED MILLS, NASHVILLE, TENNESSEE						
"Famous Brand" Baby Chick Starting Mash	20.0	20.9	2.5	4.8	7.0	4.7
"Famous Brand" Egg Laying Mash	20.0	21.5	2.5	4.4	8.0	5.3
Uncle Dan 18% Dairy Feed	18.0	19.6	2.5	3.7	15.0	11.4
Famous 16% Dairy Feed	16.0	20.6	2.5	3.0	14.0	8.3
** Golden Gain 16% Dairy Feed Very much below guaranty in protein.	16.0	<u>13.8</u>	3.0	5.4	15.0	14.1**
Golden Gain 40% Hog Supplement	40.0	41.1	3.0	4.3	7.0	6.5
** Golden Gain Horse and Mule Feed Excess oat hulls.	9.0	<u>8.2</u>	2.0	1.5	15.0	<u>16.2</u> **
** 41% Protein Cottonseed Meal	41.0	40.6	5.0	<u>4.4</u>	12.0	11.6**
** 41% Protein Cottonseed Meal	41.0	39.2	5.0	<u>4.1</u>	12.0	12.0 **
** 41% Protein Soybean Oil Meal	41.0	<u>41.7</u>	5.0	<u>4.2</u>	7.0	6.2 **
OSCAR FARMER AND SONS, LOUISVILLE, KENTUCKY						
** 60-40 Scratch Feed Contained unground wheat chass.	9.0	9.4	3.0	3.7	3.0	2.2 **
FARMERS ELEVATORS, OWENSBORO, KENTUCKY						
Feeders Friend 16% Dairy Feed	16.0	18.0	3.0	2.5	10.0	8.2
Feeders Friend 30% Steer Supplement A	30.0	29.8	2.0	2.0	8.0	5.8
Feeders Friend 35% Hog Supplement	35.0	42.1	2.5	4.2	8.0	7.1
FARMERS FEED STORE, CENTRAL CITY, KENTUCKY						
Chowmix 14% Protein Hog Feed	14.0	15.4	3.5	3.7	5.0	3.2
** "Veribest Brand" Mixed Feed	15.5	<u>14.6</u>	4.0	3.9	7.0	6.8**
FARMERS FRIEND MINERAL COMPANY, NAPOLEON, OHIO						
"Farmers Friend Brand" Mineral Feed						
Calcium	19.0	26.30				
Phosphorus	4.0	4.20				
Iodine		.0007				
Salt	10.0	10.7				

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
FARMERS MILLING COMPANY, SOMERSET, KENTUCKY						
"Farmers XXX Brand" Stock Feed	12.5	12.5	2.5	3.5	15.0	15.3
FARMERS AND MERCHANTS MILLING COMPANY, BROOKSVILLE, KENTUCKY						
Mixed Feed	13.5	14.8	3.0	3.8	8.0	6.1
FARMERS UNION MILL, VERSAILLES, KENTUCKY						
"Tasty Brand" 18% Protein Laying Mash	18.0	18.1	3.5	4.5	7.0	5.4
Mixed Feed	13.0	13.9	4.5	6.5	8.5	7.2
J. H. FEDDERS, INC. COVINGTON, KENTUCKY						
** Fedders Brand Scratch Feed	10.0	9.4	3.5	3.2	5.0	2.1 **
Contained unground weed seeds.						
FERNCLIFF FEED AND GRAIN COMPANY, LOUISVILLE, KENTUCKY						
"P. D. Q. Brand" 17% Starting and Growing Mash	17.0	18.1	2.5	5.3	7.0	5.4
Cracker Jack 20% Egg Mash	20.0	21.5	2.5	4.9	8.0	6.1
"P. D. Q. Brand" Scratch Feed	8.0	9.0	3.0	3.4	5.0	1.7
Ferncliff 24% Dairy Feed	24.0	26.2	2.5	3.5	11.0	7.8
Cracker Jack Horse and Mule Feed	9.0	10.0	3.0	3.9	6.0	4.9
Cracker Jack Horse and Mule Feed	9.0	9.8	3.0	3.7	6.0	5.4
Cracker Jack Horse and Mule Feed	9.0	10.2	3.0	3.7	6.0	4.3
" P. D. Q. Brand" Wheat Gray Shorts						
** With Screenings	14.0	15.5	3.5	4.0	6.0	5.0 **
Contained Mixed Screenings.						
Cracker Jack 41% Soybean Oil Meal	41.0	43.5	3.5	5.3	7.0	5.8
FIELD'S PACKING COMPANY, OWENSBORO, KENTUCKY						
Field's 60% Protein Digester Tankage	60.0	60.9	5.0	9.5	3.0	0.8
Field's 50% Protein Meat Scraps	50.0	60.4	5.0	13.0	3.0	1.2
FLEISCHMANN DISTILLING COMPANY, OWENSBORO, KENTUCKY						
Corn Distillers Dried Grains	25.0	26.6	5.0	7.8	16.0	13.4
FORTUNE FEED MILLS, NASHVILLE, TENNESSEE						
Fortune Liberty Laying Mash	18.0	19.4	2.5	4.6	8.0	6.8
Fortune Rabbit Ration Pellets	15.0	16.1	2.0	4.0	18.0	8.9
Fortune 14% Pig and Hog Feed	14.0	13.7	3.0	4.1	6.0	3.5
Fortune 24% Dog Food	24.0	23.7	5.0	5.7	6.0	3.2
Fortune Sweet Feed	9.0	9.5	1.0	2.1	15.0	11.2
Fortune Sweet Feed	9.0	9.9	1.0	1.8	15.0	11.0
"Fortune Dandy Brand" Mixed Feed	10.0	10.6	3.0	4.6	8.0	7.0
FRANKLIN WHOLESALE COMPANY, ASHLAND, KENTUCKY						
Honey Dew 16% Protein Dairy Feed	16.0	15.9	2.5	3.6	15.0	12.0
Honey Dew 16% Protein Dairy Feed	16.0	17.8	2.5	3.8	15.0	12.0
HENRY FRUECHTENICHT COMPANY, LOUISVILLE, KENTUCKY						
Produce Starter and Grower Mash	20.0	21.7	3.0	4.2	7.0	5.8
Producer Egg Mash	20.0	21.4	3.0	4.8	7.0	5.4
Producer Egg Mash	20.0	20.8	3.0	5.5	7.0	5.8
Producer Egg Mash	20.0	21.3	3.0	5.0	7.0	6.5
Producer Egg Mash	20.0	22.6	3.0	4.4	7.0	5.2
Producer Egg Mash	20.0	21.6	3.0	3.8	7.0	5.5
Producer Scratch Feed	8.0	9.2	2.5	3.5	3.0	1.9

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Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
ROBERTS BROTHERS, BURLINGTON, KENTUCKY						
Unique Brand 20% Protein Starting Mash	20.0	20.8	3.5	4.1	7.0	4.7
Big Lucy 24% Dairy Feed	24.0	24.2	3.0	3.3	10.0	9.8
ROBINSON MILLING COMPANY, SOMERSET, KENTUCKY						
Sun-Ray 20% Egg and Breeder Mash	20.0	19.7	3.5	3.8	7.0	5.4
** Booster 20% Laying Mash	20.0	21.2	3.5	4.0	7.0	7.8* **
** Green Valley 24% Dairy Feed	24.0	<u>20.9</u>	3.5	2.6	14.0	11.0 **
Very much below guarantee in protein.						
Sun Ray Special 20% Dairy Feed	20.0	21.2	3.5	5.1	8.0	5.4
** Happy Home 16% Sweet Dairy Feed	16.0	<u>15.3</u>	3.0	2.8	15.0	13.9 **
** Happy Home 16% Sweet Dairy Feed	16.0	<u>16.9</u>	3.0	3.2	15.0	<u>15.6</u> **
Booster Hog Feed (Fattening)	17.0	16.8	3.5	5.1	8.0	5.4
Booster Hog Feed (Fattening)	17.0	17.7	3.5	6.0	8.0	5.9
ROSS FEED COMPANY, MURRAY, KENTUCKY						
"Standard Brand" 20% Chick Ration	20.0	21.9	3.5	4.1	7.0	6.1
Standard (Open Formula) 15% Pig and Hog Feed	17.0	18.5	3.5	3.9	6.0	6.1
P. M. ROUNTREE, BENTON, KENTUCKY						
Wheat Mixed Feed and Screenings	13.0	15.3	3.5	3.7	8.5	6.4
ROYAL, BARRY - CARTER MILLS, NASHVILLE, TENNESSEE						
Martha White 16% Protein Wheat Grey Shorts with Screenings	16.0	16.0	3.5	3.6	6.0	5.5
SAM RYLE, BURLINGTON, KENTUCKY						
R and H 17% Protein Starter and Grower	17.0	20.2	3.5	3.5	7.0	5.6
SALT LICK MILLING COMPANY, SALT LICK, KENTUCKY						
** Scratch Feed	10.0	9.6	3.0	<u>2.2</u>	3.0	2.4 **
Contained unground weed seeds.						
** X Mixed Feed	14.0	<u>10.5</u>	3.5	3.3	6.0	3.1 **
Very much below guarantee in protein.						
Screened Cracked Corn	8.0	8.0	3.5	3.3	3.0	1.4
Ground Wheat	12.0	12.0	2.0	2.3	3.0	2.6
SANDUSKY BROTHERS, HARRODSBURG, KENTUCKY						
Mixed Feed	13.0	14.1	3.0	4.4	8.0	7.3
J. F. SCHNEIDER AND SON, INC. MIDDLESBORO, KENTUCKY						
** "Cudjo Brand" 50% Protein Tankage	50.0	<u>46.5</u>	10.5	12.0	2.5	1.5 **
Very much below guarantee in protein.						
** "Cudjo Brand" 50% Protein Tankage	50.0	<u>46.3</u>	10.5	10.5	2.5	1.6 **
Very much below guarantee in protein.						
** "Cudjo Brand" 50% Protein Tankage	50.0	<u>47.4</u>	10.5	<u>9.6</u>	2.5	1.6 **
Very much below guarantee in protein.						
SCIENTIFIC MILLING COMPANY, EAST ST. LOUIS, ILLINOIS						
Scientific 16% Dairy Feed	16.0	18.6	3.0	3.0	15.0	9.2
THE SCOTT COUNTY MILLING COMPANY, SIKESTON, MISSOURI						
** "Whoa Brand" Sweet Mule Feed	9.0	<u>7.6</u>	2.5	1.9	15.0	14.3 **

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
W. N. SCOVILLE, LONDON, KENTUCKY Farm Feed	12.0	14.6	2.0	3.6	6.0	5.6
J. ALLEN SMITH AND COMPANY, KNOXVILLE, TENNESSEE "Blue Belle" Stock Feed	13.5	15.6	3.5	4.0	8.5	7.4
"Peerless Brand" Feed	13.5	16.0	3.5	3.7	8.5	7.3
SMITH RICE MILL, INC. DEWITT, ARKANSAS ** Rice Bran	12.0	<u>10.7</u>	12.0	13.3	12.0	10.6 **
SPECIFIDE INC. 3555 SUTHERLAND AVENUE, INDIANAPOLIS, INDIANA Specifide Vitamin Source For Feeds Riboflavin	400 mg/lb		447 mg/lb			
A. E. STALEY MANUFACTURING COMPANY, DECATUR, ILLINOIS Staley's 44% Protein Solvent Extracted Soybean Oil Meal	44.0	44.0	.5	1.3	7.0	5.0
STALEY MILLING COMPANY, KANSAS CITY MISSOURI Karmels "B" Meal For Cattle	22.0	23.4	2.5	3.3	9.0	9.0
STANDARD MILLS, HUNTINGTON, WEST VIRGINIA Rainbow 24% Dairy Feed	24.0	24.1	2.5	2.2	15.0	13.0
STANDARD FEED MILLING COMPANY, ATLANTA, GEORGIA Ky-Brand 16% Dairy Feed	16.0	18.3	2.5	2.4	10.0	7.5
41% Protein Cottonseed Meal	41.0	41.7	4.0	5.4	13.0	11.3
STURGIS MILLING COMPANY, STURGIS, KENTUCKY "Neva-Fail Brand" 18% Protein All Mash Laying Ration	18.0	19.9	3.5	6.0	7.0	6.0
** Neva-Fail 24% Protein Dairy Feed	24.0	<u>22.7</u>	4.0	<u>2.5</u>	12.0	8.7 **
** "Neva-Fail Brand" 16% Protein Dairy Feed	16.0	16.7	3.0	2.2	14.0	9.6 **
"Hoppy's" 40% Hog Supplement	40.0	40.9	3.0	3.5	8.0	5.8
SUN-RAY FEED MILLS, BOWLING GREEN, KENTUCKY ** "Sun-Ray" 24% Sweet Dairy Feed	24.0	22.2	4.0	4.4	10.0	8.2 **
"Sun-Ray" 24% Dairy Feed	24.0	25.1	4.5	5.2	10.0	10.5
"Sun-Ray Brand" 16% Protein Dairy Feed	16.0	16.7	3.5	5.4	10.0	5.8
** Green Valley 16% Dairy Feed	16.0	<u>14.3</u>	3.0	3.6	15.0	10.4 **
** "Booster Brand" 16% Stock Feed Contained Mixed Screenings.	16.0	<u>15.5</u>	3.5	5.0	9.0	9.4 **
** "Booster Brand" 16% Stock Feed	16.0	<u>15.4</u>	3.5	5.4	9.0	8.0 **
"Booster Brand" 18% Protein Pig and Hog Feed	18.0	20.0	4.0	5.3	7.0	7.0
"Booster Brand" 18% Protein Pig and Hog Feed	18.0	19.1	4.0	5.4	7.0	6.9
SUN-RAY FEED MILLS, LEXINGTON, KENTUCKY Sun-Ray 20% Egg Mash	20.0	20.5	3.5	3.5	7.0	5.9
"Booster Brand" 20% Laying Mash	20.0	21.6	3.5	3.5	7.0	5.4
** Sun-Ray Special 24% Dairy Feed	24.0	24.3	3.5	2.7	8.0	4.8 **
** Sun-Ray Special 24% Dairy Feed	24.0	24.2	3.5	<u>2.9</u>	8.0	4.9 **
** Green Valley 24% Dairy Feed	24.0	<u>22.4</u>	3.5	<u>2.7</u>	14.0	12.6 **
** Green Valley 24% Dairy Feed	24.0	<u>27.0</u>	3.5	<u>2.9</u>	14.0	11.4 **
Green Valley 24% Dairy Feed	24.0	25.4	3.5	3.1	14.0	14.0

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
SUN-RAY FEED MILLS, LEXINGTON, KENTUCKY (Cont'd)						
** Green Valley Special 24% Dairy Feed	24.0	23.0	2.5	3.1	10.0	8.4 **
Booster 20% Dairy Feed	20.0	20.3	3.0	3.8	13.0	11.7
Green Valley 16% Dairy Feed	16.0	16.6	3.0	2.6	15.0	14.0
Sun Ray 14% Steer Feed Pellets	14.0	17.2	2.5	4.0	17.0	13.5
"Sun-Ray" Cracked Corn	9.0	8.8	3.7	4.0	2.5	1.3
SUPREME FEED MILLS, GLASGOW, KENTUCKY						
"Supreme Brand" 20% Starter and Grower	20.0	22.0	3.5	3.8	6.0	4.2
"Supreme Brand" 20% Protein Laying Mash	20.0	21.8	3.5	3.8	7.0	4.7
"Supreme Brand" 20% Protein Laying Mash	20.0	21.1	3.5	3.6	7.0	4.5
"Supreme Brand" 20% Protein Laying Mash	20.0	21.7	3.5	3.8	7.0	4.2
"Feeders Pride" 24% Protein Dairy Feed	24.0	25.9	2.5	3.2	15.0	9.8
** "Feeders Pride" 24% Protein Dairy Feed	24.0	22.6	2.5	2.3	15.0	10.8 **
** "Feeders Pride" 24% Protein Dairy Feed	24.0	23.2	2.5	2.8	15.0	12.3 **
"Supreme Special" 24% Dairy Feed	24.0	25.7	3.0	2.9	15.0	11.3
** "Supreme Special" 24% Dairy Feed	24.0	24.6	3.0	5.2	15.0	14.1 **
Contained corn cob.						
** "Supreme Special" 20% Protein Dairy Feed	20.0	20.2	3.5	2.5	10.0	8.1 **
"Feeders Pride" 16% Protein Dairy Feed	16.0	16.3	2.5	3.5	15.0	15.1
"Supreme 16% Dairy Feed	16.0	19.0	2.5	2.6	10.0	9.1
Supreme 16% Dairy Feed	16.0	17.3	2.5	4.0	10.0	10.4
"Supreme Brand" Horse and Mule Feed	9.0	9.5	3.5	3.1	12.0	4.0
"Premo Brand" Hominy Meal	9.0	9.3	5.0	4.5	7.0	6.0
"Premo Brand" Hominy Meal	9.0	9.1	5.0	5.0	7.0	6.1
65% Ground Corn Cobs and Molasses	2.0	3.7	.2	.4	25.0	18.6
D. B. SUTHERLAND AND SONS, BLOOMFIELD, KENTUCKY						
Kentucky Star 20% Protein Laying Mash	20.0	22.3	3.5	3.8	7.0	6.1
Kentucky Star 20% Dairy Feed	24.0	26.0	3.0	3.5	10.0	7.9
Kentucky Star 24% Dairy Feed	24.0	24.4	3.0	4.0	10.0	7.3
"Ky-Star" 20% Dairy Feed	20.0	21.2	3.0	3.6	15.0	8.2
"Ky-Star" 16% Dairy Feed	16.0	16.9	3.0	3.8	15.0	9.6
SWEET FEED MILLS, INC. BOWLING GREEN, KENTUCKY						
Freshgood 24% Dairy Feed	24.0	25.3	3.0	2.6	10.0	6.9
Freshgood 16% Dairy Feed	16.0	17.7	3.0	3.3	10.0	7.0
Ground Ear Corn, Molasses and Minerals	6.0	8.0	2.5	2.6	8.0	5.0
SWEET FEEDS, HOPKINSVILLE, KENTUCKY						
Sweet Mix 18% Laying Mash	18.0	19.6	3.0	4.4	7.0	5.3
Sweet Mix 18% Pig and Sow Feed	18.0	18.6	4.0	4.5	7.0	6.0
SWEETALL MANUFACTURING COMPANY, WILLIAMSTOWN, NEW YORK						
Dry Sweetall Feed	12.0	14.1	3.0	8.0	15.5	14.0
SWIFT AND COMPANY, CHICAGO, ILLINOIS						
Swift's 20% Protein Chick Starter Mash	20.0	19.7	3.0	4.4	7.0	5.4
Swift's 18% Protein Growing Mash	18.0	19.8	2.5	3.8	8.0	6.7
Swift's 20% Egg Mash	20.0	21.7	3.0	4.2	8.0	5.3
Swift's 20% Egg Mash	20.0	22.0	3.0	4.0	8.0	7.0
42% Protein Soybean Oil Meal	42.0	43.0	3.5	5.5	7.0	5.4
** Swift's 41% Cottonseed Meal	41.0	40.4	4.0	6.1	13.0	12.7 **
Swift's 41% Cottonseed Meal	41.0	40.9	4.0	4.1	13.0	10.0
TABOR HATCHERY AND BUILDING SUPPLY, COLUMBIA, KENTUCKY						
Tabor's Chick Starter	20.0	21.6	2.5	3.7	7.0	4.9

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

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MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
TARTER'S FEED MILL, LIBERTY, KENTUCKY						
"Sur-Good Brand" Egg Mash	20.0	20.2	2.5	3.2	7.0	4.9
"Sur-Good Brand" Pig Feed	18.0	19.1	3.0	3.0	7.0	5.5
TAYLOR COUNTY IMPLEMENT AND FEED COMPANY, CAMPBELLSVILLE, KENTUCKY						
"Economy Brand" 18% Egg Mash	18.0	17.9	2.5	4.4	7.0	4.6
"Economy Brand" Pig Feed	17.0	19.3	3.0	3.2	6.0	3.5
TELL CITY FLOURING MILLS, TELL CITY, INDIANA						
Kentuck 20% Laying Mash	20.0	19.8	3.5	3.8	8.0	5.5
Kentuck 20% Laying Mash	20.0	19.3	3.5	3.8	8.0	5.8
** "Hoosier" Poultry Scratch Feed	9.0	12.5	3.0	3.5	5.0	2.4 **
Contained unground corn cockle.						
"Hoosier " 16% Protein Dairy Feed	16.0	15.5	4.0	4.2	13.0	7.3
TILFORD AND WALTERS MILL, METROPOLIS, ILLINOIS						
Masco 24% Protein Chick Starter	21.0	22.2	3.0	4.8	7.0	4.3
** J and J 20% Laying Mash	20.0	19.0	3.0	4.8	7.0	5.6 **
TRENTON MILLING COMPANY, TRENTON, ILLINOIS						
Wheat Gray Shorts and Screenings	16.0	17.4	4.0	4.8	6.0	6.2
TRENTON COTTON OIL COMPANY, TRENTON, TENNESSEE						
"Trenton Brand" 41% Protein Cottonseed Meal	41.0	41.8	5.0	6.0	12.0	10.2
TRI - STATE MILLS, KENOVA, WEST VIRGINIA						
Daisy 24% Dairy Feed	24.0	27.6	2.5	2.7	15.0	12.0
Daisy 24% Dairy Feed	24.0	25.3	2.5	2.9	15.0	14.4
THE UBIKO MILLING COMPANY, CINCINNATI, OHIO						
Life Guard Starter	20.0	22.3	3.5	4.2	6.0	4.6
Life Guard Starter and Grower	17.0	18.2	3.5	4.0	7.0	6.4
Life Guard Starter and Grower	17.0	18.1	3.5	4.0	7.0	6.8
Life Guard 22% Layer	22.0	24.9	3.5	3.2	8.0	6.2
Sunbeam Laying Mash	20.0	21.5	3.0	3.8	8.0	6.8
Glendale Scratch Feed	9.0	9.8	2.5	3.4	5.0	1.8
** Union Grains Life Guard 32%						
Dairy Supplement	32.0	32.9	2.0	1.3	10.0	5.7 **
Special Union Grains Life Guard 24%						
Dairy Feed	24.0	29.1	2.5	3.6	10.0	5.4
Union Grains Life Guard 20% Dairy Feed	20.0	23.0	2.5	2.9	10.0	5.7
** Sunbeam 16% Dairy Feed	16.0	17.2	2.5	2.2	15.0	13.1 **
Contained Mixed screenings.						
** Sunbeam 16% Dairy Feed	16.0	14.5	2.5	2.3	15.0	11.7 **
Contained mixed screenings.						
** Sunbeam 16% Dairy Feed	16.0	15.2	2.5	3.2	15.0	12.7 **
Contained mixed screenings.						
VALIER AND SPIES MILLING COMPANY, ST. LOUIS, MISSOURI						
Valier's Wheat Gray Shorts and Screenings	16.0	17.1	4.0	4.0	6.0	5.4
C. F. VISSMAN AND COMPANY, LOUISVILLE, KENTUCKY						
** Vissman's 60% Protein Digester Tankage	60.0	56.8	6.0	11.2	3.0	1.4 **
Very much below guarantee in protein.						

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Quarterly Report on Feed Samples

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
VITAMINERAL PRODUCTS AND COMPANY, PEORIA, ILLINOIS						
Con-O-Mineral Supplement						
Calcium	28.0	30.0				
Phosphorus	5.0	7.1				
Iodine	.0625					
VITALITY MILLS, INC. CHICAGO, ILLINOIS						
Vitality's Egg A-Day Brand Egg Mash	20.0	21.4	3.5	3.6	8.0	5.6
WALTERS AND THOMPSON, SHELBYVILLE, KENTUCKY						
40% Hog Supplement	40.0	41.9	3.5	3.2	10.0	4.5
WEISENBERGER SANITARY FLOUR MILLS, MIDWAY, KENTUCKY						
Mixed Feed	12.5	12.3	4.0	5.0	10.5	7.6
WEST NINTH STREET MILL, OWENSBORO, KENTUCKY						
"Ravar Brand" 21% Chick Starting Mash	21.0	21.5	2.5	4.2	6.0	5.2
"Ravar Special Brand" Broiler Mash	20.0	21.3	3.0	3.5	4.0	3.4
"Ravar Brand" 16% Protein Dairy Feed	16.0	16.8	3.0	2.7	9.5	5.3
WEST TENNESSEE SOYA MILL, INC. TIPTONVILLE, TENNESSEE						
44% Protein Solvent Extracted Soybean Oil Meal	44.0	43.9	.5	1.1	7.0	5.2
44% Protein Solvent Extracted Soybean Oil Meal	44.0	43.7	.5	1.2	7.0	5.3
GARDNER WHITE, PRINCETON, KENTUCKY						
Home Town 18% Protein All Purpose Poultry Mash	18.0	18.2	2.5	4.5	7.0	4.5
WINN MILLING COMPANY, GREENSBURG, KENTUCKY						
Daisy Scratch Feed	20.0	8.9	3.0	3.5	4.0	2.2
Daisy 20% Dairy Feed	20.0	20.0	2.5	2.6	15.0	12.1
Daisy 20% Dairy Feed	20.0	19.6	2.5	2.1	15.0	11.7
Daisy 16% White Tag Dairy Feed	16.0	18.9	2.5	2.4	10.0	15.1
Daisy 17% Protein Pig and Sow Feed	17.0	19.8	3.0	4.1	6.0	5.4
WINN AND TOBIN MILLING COMPANY, MARION, KENTUCKY						
Daisy 20% Protein Starter and Grower	20.0	20.8	2.5	4.9	6.0	5.2
Daisy Scratch Feed	9.0	10.2	2.5	2.5	3.0	2.0
Hominy Meal	10.0	10.9	7.0	8.2	8.0	7.7
** Daisy Cracked Corn	8.0	8.2	3.5	2.6	3.0	1.5 **
** Corn and Cob Meal	8.0	6.7	3.5	3.2	4.0	5.7 **
Excess Corn cob.						
WINN AND TOBIN MILLING COMPANY, LEITCHFIELD, KENTUCKY						
Daisy 17% Protein Starter and Grower	17.0	17.8	2.5	4.5	7.0	4.8
** Daisy 20% Laying Mash	20.0	19.2	2.5	4.3	7.5	4.9 **
Daisy 18% Protein Hog Feed	18.0	18.0	4.0	4.2	7.0	5.0
WOODFORD FEEDCOMPANY, VERSAILLES, KENTUCKY						
Big "W" Broiler-Starter and Grower	20.0	19.7	2.5	3.8	7.0	3.6
Big "W" Egg Mash	18.0	18.8	3.5	3.9	8.0	4.5

**Samples failing to equal guaranty by more than one-half of one percent, or that were adulterated with hulls, unground weed seeds, or refuse.

Regulatory Bulletin No. 106

MANUFACTURER, BRAND AND REMARKS	Protein		Fat		Fiber	
	Guar.	Found	Guar.	Found	Guar.	Found
WOOLCOTT FLOUR MILLS, INC. LEXINGTON, KENTUCKY						
Woolcott Mixed Feed	12.0	13.0	4.0	4.2	8.5	6.0
YOPP SEED COMPANY, PADUCAH, KENTUCKY						
** Yopp's Hen Scratch	9.0	9.5	3.0	2.7	3.0	2.0 **
Contained unground corn cockle.						
J. W. ZARING GRAIN AND MILL COMPANY, RICHMOND, KENTUCKY						
Zaring's 16% Dairy Feed	16.0	16.6	3.0	2.9	15.0	15.1
Zaring's Farm Feed	14.0	13.6	4.0	5.2	8.0	5.5

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