

ALABAMA
DEPARTMENT OF AGRICULTURE AND INDUSTRIES

Montgomery, Alabama

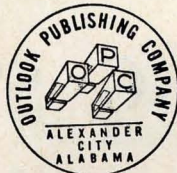
Oct. 1, 1957, to Sept. 30, 1958

Department Bulletin No. 69

**COMMERCIAL
FEEDING STUFFS**



A. W. TODD, Commissioner



1959



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STATE OF ALABAMA
DEPARTMENT OF AGRICULTURE AND INDUSTRIES
Montgomery

March 1, 1959

Hon. A. W. Todd, Commissioner,
Department of Agriculture and Industries,
Montgomery, Ala.

Dear Sir:

I am submitting herewith a report of the results of analyses of official feed samples as reported to this office by the state chemist for publication. These samples were collected by inspectors of the department from Oct. 1, 1957, to Sept. 30, 1958.

The commercial feed law, the rules and regulations for its enforcement, and the state standards for special purpose feeds, also definitions of feeding stuffs as adopted by the Association of American Feed Control Officials are included in this report.

Respectfully,

GEORGE H. MARSH, Director

Division of Agricultural Chemistry

**REGULATIONS ADOPTED BY THE STATE BOARD OF
AGRICULTURE GOVERNING THE SALE OF
COMMERCIAL FEEDS IN ALABAMA**

1. The term "commercial feeds" shall be held to include all feed stuffs used for feeding domestic and wild animals and domestic and wild birds; except whole seed or grains, the unmixed meals made directly from entire grains of corn, wheat, rye, barley, oats, buckwheat, flaxseed, kaffir and milo when packed for human consumption, whole hays, straws, cottonseed hulls and corn stover when unmixed with other materials.

2. Every lot or parcel of commercial feed sold shall have affixed thereto a tag or label containing a plainly printed statement in the English language, truly certifying the net weight of the package, the name, brand, or trademark, under which the article is sold, the name and address of the manufacturer, jobber, or importer, the common names of each and all ingredients of which the article is composed, the minimum percentage of crude protein, minimum percentage of crude fat, and minimum percentage of nitrogen free extract, the maximum percentage of crude fiber, the percentage of each mineral or chemical when added in quantities of 0.1% or more, but when added in less than 0.1% the percentage is not required to be declared.

3. A certified copy of the statement specified in regulation 2 is required to be filed with the Commissioner of Agriculture and Industries for each brand of commercial feed before it is sold or offered for sale in this State. Such statement shall be made on blanks furnished by the Department of Agriculture and Industries on request, and shall be accompanied by a fee of two dollars for each brand offered for registration. Registrations expire on September 30th of each year at which time application for re-registration, with fees attached, must be made to this office.

Whenever a manufacturer, importer, or jobber, of any commercial feed shall have filed a statement as required in the above paragraph, no agent of such manufacturer, importer, or jobber, shall be required to file such statement.

4. Any commercial feed offered or exposed for sale with a tag attached thereto which differs from the present registered brand name of the feeding stuff, shall be subject to seizure.

5. It is optional with the manufacturer or dealer whether the bag be branded, but the required statement must always be printed on the tag, provided, however, that it shall not be necessary to show the net weight on the tag, if such weight is plainly printed on each bag and the tag bears the following statement: "Net Wt. Shown on Bag."

6. A Stamp tax fee of 20c per ton is required by each and every person manufacturing or selling commercial feeds as defined in Section 56 of the commercial feed law, for each ton of commercial feed sold in this State.

When the tax or fee has been paid by the manufacturer, dealer, or importer, on a lot or parcel or a brand of commercial feed, no other person shall be required to pay such tax.

A copyright stamp furnished by the Commissioner of Agriculture and Industries shall be affixed to or accompany each lot shipped in bulk, each bag or parcel of commercial feeds, specifying that all required taxes have been paid. Stamps are obtained from the Commissioner of Agriculture.

Alabama Feed Tax Stamps may be obtained from the Commissioner of Agriculture and Industries in sealed packages in the following demoninations and sizes.

100 lb.	1c	100	500	1000	2000	3000	5000
		\$1	\$5	\$10	\$20	\$30	\$50
50 lb.	½c	200	1000				
		\$1	\$5				
25 lb.	¼c	400	1000				
		\$1	\$2.50				
8½ lb.	1-12c	1200					

Stamps will be shipped express collect upon receipt of order and checks covering same. All checks should be made payable to Commissioner of Agriculture and Industries.

7. Commercial feeds having value or utility as a fertilizer material, are not exempt from the stamp tax or fee required or from tagging with regards to its feed constituents, but such material shall not be subject to both the feed stuff tax and fertilizer tag tax.

8. Commercial feeds to be used for mixing purposes shall have attached thereto a tag truly certifying the net weight of the lot, package or parcel; the name, brand, or trademark; the name and address of the manufacturer, jobber, or importer; the common names of each and all ingredients of which the article is composed; the minimum percentage of crude protein, the minimum percentage of crude fat, and carbohydrates in terms of maximum percentage of crude fiber and minimum percentage of nitrogen free extract; the percentage of each mineral or chemical added; a statement that such product is to be used for mixing purposes only. In lieu of this statement a tax stamp is required at all times.

9. Only one commercial feed shall be registered under a name or brand regardless of whether the application be made by the same manufacturer or by another person.

10. No commercial feed shall be registered under a brand name, or trademark, or with a mixture of ingredients which would tend to be misleading or deceptive as to the materials of which it is composed.

11. (a) A mixture of feed material and molasses, containing not less than 7% protein, may be registered and sold in Alabama when not less than 60% of the protein in the mixture is in a digestible form.

(b) It will be necessary for the mixture to be registered and labeled with the name of the feed material and the kind of molasses used in its manufacture.

(c) No brand name can be used in connection with either the registration, analysis tag or the bag in which the mixture is packed for sale.

(d) All other mixtures of feed materials shall contain not less than 9% protein, 2% fat or more than 15% crude fiber.

12. Any feed material under its correct name, which is not otherwise prohibited from sale in Alabama, if labeled in the same size and type "For mixing purposes only," may be mixed with molasses and sold, provided the kind and percentage of molasses are stated on the registration and analysis tag in the same size and type as the name of the feed material, and the mixture is properly registered and tagged and otherwise in compliance with the commercial feed law, and provided that no brand name or trade name is used in connection with the name of the product.

13. Adulterants which are prohibited as ingredients of commercial feeds, unless otherwise provided for by law or regulation, are: rice hulls, oat hulls, cottonseed hulls, peanut hulls, barley hulls, weed seeds, mill oats or wild oats, cocoanut hulls (so called cocoanut hull meal) grit, oyster shell, ground straws, sugar cane bagasse (sugar cane pumice), and other materials which have little or no nutritional value.

14. A commercial feed must contain not less than three per cent of each ingredient listed on the analysis tag.

15. (a) The labels on packages of mineral feeds are required to show:

1. The percentage of salt.
2. The percentage of limestone or precipitated carbonate of lime, as the case may be.
3. The percentage of phosphate rock or precipitated phosphate of lime, as the case may be.
4. The percentage of wood ashes.
5. The kind and percentage of iodide.
6. Common names of other ingredients.

(b) In case of mixed feeds containing 5% or more of added mineral ingredients, or other unmixed materials used as mineral supplements, and in the case of mineral feeds mixed or unmixed which are manufactured, represented and sold for the primary purpose of supplying mineral elements in rations for animals or birds and other mineral elements generally regarded as dietary factors essential for normal nutrition, the minimum percentage of Calcium (Ca.), of Phosphate (P), of Iodine and the maximum percentage of Salt (NaCl), if present, must be shown on the registration and analysis tags, as well as the common names of all ingredients present in the feed.

16. Mixtures which are claimed to contain medicinal value, shall be classified as drugs.

17. Commercial feeds may be packed and sold in 8 1/3 pound sacks when the sacks are tagged or labeled to show the brand name of the feed, net weight, the guaranteed analysis, list of ingredients, the name and address of the manufacturer or other person responsible for placing the product on the market and are properly stamped with 1/12 cent Alabama feed tax stamps.

18. (a) Ten pound packages of commercial feed may be sold in Alabama if properly labeled to comply with this State's Feed Law and when these packages are packed in fifty or one hundred pound containers which bear a correct analysis tag and Alabama Feed Inspection stamp to comply with the Law.

(b) Five and ten pound packages of commercial feed may be sold in Alabama if properly labeled to comply with this State's Feed Law and when these packages are packed in fifty or one hundred pound containers which bear a correct analysis tag and Alabama feed inspection stamp to comply with the Law.

19. Dog feeds may be packed and sold in Alabama in 5 pound packages or in any weight package weighing less than 5 pounds, provided, the package is labeled to show the correct net weight and otherwise complies with the Commercial Feed Law of Alabama.

20. Peanut vine hay with molasses containing not less than 7% protein and beet pulp with molasses containing not less than 7% protein may be registered and sold in Alabama.

21. A feed material, which when mixed with molasses will make a mixture containing not less than 5% protein, 60% or more of which is in digestible form and which is not otherwise prohibited from sale in commercial feed in Alabama, may be mixed with molasses and sold to feed mixers who have mixed feed registered for sale in the State. Such a mixture must be properly registered and tagged in compliance with the commercial feed law, and no brand name will be permitted in connection with registration or analysis tags. The name used for the mixture on registration and analysis tags shall be the correct name of the feed material and the name and kind of molasses used, and the statement "For Mixing Purposes Only" shall be printed on the registration analysis tags.

22. (a) **Canned Dog Food.**—The term "dog food" or "dog and cat food" or any similar term used in connection with canned products shall mean a wholesome, commercially sterile food product packed in hermetically sealed containers. This food product shall be composed of edible fresh and/or frozen or cured meat and/or meat by-products and/or fish. It may contain milk solids, cereals, vegetables or other edible accessory food products and edible mineral or vitamin containing substances. It **must** contain such accessory substances as required to render the canned product adequate for normal nutrition of the dog when used as the sole ration.

(b) **Normal Nutrition.**—The term "normal nutrition" as used here shall mean normal growth for the species and breed, together with reproduction and rearing of young.

(c) **Edible.**—The term "edible" shall be construed to mean suitable with respect to the conditions of manufacturing and handling of each ingredient and the product as a whole. In the case of a manufacturer operating a Federally inspected plant, production and handling under inspection and regulations of the Bureau of Animal Industry, U. S. Department of Agriculture, shall be prima facie evidence of suitability with respect to cleanliness and freedom from disease. In the case of a manufacturer

operating a non-Federally inspected plant, the Board of Agriculture and Industries of the State of Alabama will decide whether the conditions, regulations and inspection under which said manufacturer operates are suitable within the meaning of this standard.

(d) **Adulterated.**—Any canned dog food shall be deemed adulterated and subject to seizure if it consists in whole or in part of a filthy decomposed or putrid animal or vegetable substance or if it is the product of a diseased animal or one that has died otherwise than by slaughter.

(e) **Standards.**—Chemical Composition

Dry Matter not less than 26 per cent

Protein not less than 7.5 per cent

Fat) not less than 2 per cent

) not more than 6 per cent

Ash not more than 3.5 per cent

Calcium (Ca) not less than 0.25 per cent

Phosphorous (P) not less than 0.30 per cent

Salt (NaCl) not more than 0.50 per cent

Crude Fiber not more than 1.50 per cent

(f) **Label.**—The label of all canned dog food must bear imprinted thereon in a legible manner the following:

Guaranteed Analysis

Dry matter not less than	%
Protein not less than	%
Fat) not less than	%
) not more than	%
Ash not more than	%
Calcium (Ca) not less than	%
Phosphorous (P) not less than	%
Salt (NaCl) not more than	%
Crude Fiber not more than	%

This analysis must conform to the minimum (and maximum where required) limits of the above standard.

(g) **Ingredients.**—The label must likewise have imprinted thereon a statement of all the ingredients used in the manufacture in the order of their preponderance as to weight (dry basis for all ingredients except water).

(h) **Name of manufacturer.**—The label must bear the name of the manufacturer in clear distinct English words in legible type.

(i) **Weight.**—Each can must contain one pound or multiples thereof, net weight of product and the net weight must be shown on the label in a conspicuous place.

(j) **Amount to Feed.**—No statement regarding amount of canned dog food to be fed shall be made on the label.

(k) **Use by Humans.**—Statements such as “Fit for human food,” “Fit for human consumption” or similar statements which imply that the canned dog food may be eaten by humans shall be prohibited on canned dog food labels.

23. (a) Canned dog food sold in Alabama shall be manufactured from materials and in plants which are inspected by either municipal, county, state or federal inspectors.

(b) An affidavit, showing that the material and plant in which the canned dog food is manufactured has been inspected and approved by one of the above designated classes of inspectors, including the kind of inspection made and whether by municipal, county, state or federal inspector, together with the name of the inspector, should accompany the application for registration of canned dog food in the State of Alabama.

24. A mixture of cottonseed feed may be mixed with molasses registered and sold provided the mixture contains not less than 20% protein.

The product shall be labeled.....% Cottonseed Feed and% Cane Molasses (or whatever other kind of molasses that is used).

The guaranteed chemical analysis shall be shown on the label also the net weight and the name and address of the manufacturer or other firm or person responsible for placing the product on the market.

25. A. "Cottonseed hulls (or cottonseed hull bran) may be mixed with molasses, registered and sold, provided the mixture is labeled 'A Roughage Mixture' and the percentage and kind of the molasses are given in the name of the mixture and when not less than 10% of the mixture (by weight) is molasses."

B. "The statement 'Roughage Mixture' shall appear on the label immediately preceding the name Cottonseed Hulls (or Cottonseed Hull Bran) and 10% Cane Molasses (or other higher percentage and kind of molasses which may be used)."

C. "The net weight and the name and address of the manufacturer or other firm or person responsible for placing the product on the market shall be on the label, but no guaranteed chemical analysis shall be given on the label."

26. **Regulations Relating to Grain for Sale in Alabama.** (a) The classes and grades for oats required in Alabama shall be those of the official grain standards of the United States, except that the test weight per bushel of No. 4 oats shall not be less than 27 pounds, the same weight as that for No. 3 oats under the federal grades.

(b) Only oats of the following classes, white oats, red oats, gray oats, black oats or mixed oats may be sold in Alabama, provided they meet the respective grade requirements of the numerical grades of No. 1 to No. 4, except that the test weight per bushel of No. 4 oats shall not be less than 27 pounds, the same as that for No. 3 oats under the federal grades.

27. No grain of any grade of the following classes, feed oats, mixed feed oats and/or mixed grains, as classified in the

official grain standards of the United States, may be sold in the State of Alabama.

28. Any phosphate or phosphate material containing more than 0.2 per cent maximum flourine added to a commercial feed shall be considered as an adulterant.

29. (a) Any roughage material which is accepted as having nutritional value and which is not injurious to animals, may be mixed with molasses, registered, and sold when the mixture contains not less than 10% by weight of molasses and is labeled "A ROUGHAGE MIXTURE," followed immediately by the percentage and kind of molasses used and the name of the roughage, provided no guaranteed chemical analysis shall be shown on the label or analysis tag.

(b) A mixture of 80% Cottonseed Hulls and 20% of 41% protein Cottonseed Meal may be registered and sold as roughage mixture, provided the mixture contains not less than 20% of 41% protein Cottonseed Meal and is labeled "A ROUGHAGE MIXTURE" followed immediately by the statement "80% Cottonseed Hulls and 20% of 41% protein Cottonseed Meal." No guaranteed chemical analysis shall be shown on the label.

(c) A mixed feed containing ground corn cobs may be registered and sold in the State, provided it be labeled and sold as "BULKY BEEF CATTLE FEED" and further provided such feed contains not less than 12% protein, 2% fat, nor more than 15% crude fiber and complies with other requirements of the law.

(d) The foregoing roughage feed mixtures must be labeled to show the net weight of the packages and the name and address of the manufacturers or other person or firm responsible for placing the product on the market.

(e) Corn cobs or shucks are prohibited as an ingredient of a commercial feed, except as provided for by law or regulation. The whole ear (consisting of the shuck, grain and cob, intact) may be ground and used as an ingredient. Crushed or ground whole ear corn, when sold by itself, is a commercial feed.

A. A mixture of not to exceed 70% of ground corn cobs, not less than 20% of a 41% protein cottonseed meal, molasses antibiotics, minerals and alfalfa meal may be registered and sold in Alabama.

B. This mixture must be registered and labeled as "A ROUGHAGE MIXTURE" followed immediately by the maximum percentage of ground corn cobs, and the minimum percentage of cottonseed meal and the name of the kind of molasses, the name of the antibiotics and the name and percentage of the added minerals shall be declared or stated on the registration and labels. The net weight and the name and address of the manufacturer or other firm or person responsible for placing the product on the market shall also be stated on the label.

C. No other name of the mixture or brand name except "A ROUGHAGE MIXTURE" shall appear on the registration or labels, and no guaranteed chemical analysis shall appear on the registration or labels.

ARTICLE 8

(Excerpt from Agricultural Code, 1940)

COMMERCIAL FEEDS—SECTIONS 56-68

56. Commercial Feeds Defined.—The term “commercial feeds” shall be held to include all feed stuffs used for feeding domestic and wild animals and domestic and wild birds; except whole seed or grains, the unmixed meals made directly from entire grains of corn, wheat, rye, barley, oats, buck wheat, flaxseed, kaffir and milo when packed for human consumption, whole hays, straws, cottonseed hulls and corn stover, when unmixed with other materials.

“Section 57. Every lot or parcel of commercial feeds sold or offered for sale or distributed in this State shall have affixed thereto a tag or label, in a conspicuous place on the outside thereof, containing a legible and plainly printed statement in the English language, clearly and truly certifying: the net weight of the package (provided that all commercial feeds shall be in standard weight bags or packages of twenty-five, fifty, one hundred, one hundred and fifty, or two hundred pounds, except that packages weighing five pounds, eight and one-third pounds, or ten pounds, net, may be furnished to retailers in fifty or one-hundred pound containers and sold only when the packages are tagged or labeled as provided in this Article, and the fifty or one-hundred pound container has affixed thereto a one cent tax stamp, or a one-half cent tax stamp, as the case may be, unless the person selling it has been granted a permit to pay the tax monthly in lieu of attaching stamps); the name, brand, or trademark under which the article is sold; the name and address of the manufacturer, jobber, or importer; the common names of each of all the ingredients of which the article is composed; the minimum percentage of crude protein, the minimum percentage of crude fat, and the maximum percentage of crude fiber. For mineral feeds the list shall include the following if added: Minimum and maximum percentage of calcium (Ca), minimum percentage of phosphorous (P), minimum percentage of iodine (I), and minimum and maximum percentages of salt (NaCl). Other mineral substances which occur in the amount of one-tenth of one per cent or more shall be declared. Products

sold solely as mineral and/or vitamin supplements and guaranteed as specified in this Section need not show guarantees for protein, fat and fiber. Constituents shall be determined by the methods in use at the time by the Association of Official Agricultural Chemists of the United States.”

“Section 58. Before any person shall sell or offer for sale or distribute in this State any commercial feeds, he or they shall file with the Commissioner a certified copy of the statement specified in the preceding section for each brand of commercial feeds, said certified copy to be accompanied by a fee of two dollars (\$2.00) for each brand offered for registration, and it is further provided that said brand shall be registered each fiscal year. Upon failure of any person to file with the Commissioner said certified copy, accompanied by said fee of two dollars (\$2.00) for each brand offered for registration before the sale or offering for sale or distribution of said brand in the State of Alabama, said person shall thereafter be required to pay ten dollars (\$10.00) for each such brand offered for registration, sold or offered for sale or distribution in Alabama.”

“Section 59. Each and every person manufacturing or selling or offering for sale or distributing any commercial feeds as defined in Section 56 of this Article shall pay to the Commissioner a stamp tax, or inspection fee, of twenty cents per ton for each ton of commercial feeds sold or offered for sale or distributed in this State, and shall affix to, or accompany with each lot shipped in bulk, or each bag or parcel of such commercial feeds, a stamp to be furnished by the Commissioner, specifying that all charges provided for in this Section have been paid. Any person may make application to the Commissioner for a permit to report the tonnage of commercial feeds sold or distributed and pay the tax or inspection fee of twenty cents per ton as hereinbefore mentioned on the basis of such report in lieu of affixing or furnishing tax stamps. The Commissioner may grant, in his discretion, the permit and allow proper credit for any stamps on hand in possession of the person being granted the permit. All permits shall be conditioned on the applicant's agreeing to keep such records as may be necessary to indicate accurately the tonnage and kind of commercial feeds sold or distributed and as are satisfactory to the Commissioner, and granting the Commissioner, or his duly authorized representative, permis-

sion to examine such records and verify the statement of tonnage. The report shall be certified as correct on forms furnished by the Commissioner, and shall be filed in the office of the Commissioner. The report of tonnage and tax shall be due and payable to the Commissioner on or before the twentieth day of each month, which report and payment shall cover the tonnage and kind of commercial feeds sold or distributed during the preceding month. Each remittance shall be accompanied by a certificate stating that the amount remitted is correct. If the report is not filed and the tax paid by the twentieth day of the month following due date, or if the report of tonnage is false, the Commissioner may revoke the permit; and, if the tax is unpaid after the twentieth day of the month, the Commissioner is authorized to add ten per cent to the amount of tax already due as a penalty for the failure of such person to make such report and payment on the date as herein required and shall proceed to collect such stamp tax, together with all costs incident to such collection, including the penalty. The sale or offering for sale or distribution by any persons of commercial feeds in this State without the tax stamps attached to the packages, bags, containers, or parcels, or furnished with bulk lots, or without reporting and paying the tax within thirty days from the due date, shall constitute sufficient cause for cancellation of all registrations, and the Commissioner shall so cancel all registrations filed by said persons, and no further registrations shall be accepted until the past due reports shall have been filed and the tax, plus the ten per cent penalty shall have been paid in full. The term "distribute" or "distributed" as used in this article in connection with commercial feeds shall include commercial feeds supplied, furnished, exchanged or used for the feeding or growing of livestock, animals or poultry under a contract, lease or agreement whereby commercial feeds are furnished or supplied to a person for the purpose of growing, producing or feeding livestock, poultry or domestic animals whether such commercial feeds are sold to such persons or not."

"Section 60. Whenever any commercial feeds as defined in Section 56 of this Article are kept for sale in bulk, stored in bins, or otherwise, the person keeping the same for sale shall keep on hand cards upon which shall be printed the statement required by the provisions of Section 57 of this Article; and when such feeds are sold or distributed at retail in bulk, or in

packages belonging to the purchaser, the person shall furnish the purchaser with sufficient stamps to cover the sale, unless granted a permit to pay the tax monthly in lieu of attaching stamps, and upon request with a card or cards, upon which appear the statement required by the provisions of Section 57 of this Article. Nothing in this Article, however, shall be construed to restrict or prohibit the sale or distribution of commercial feeds in bulk to each other by persons who mix commercial feeds for sale; but all such persons shall attach to such feeds a tag stating that they are to be used for mixing purposes only, and this tag shall give the number of pounds in bulk, or package, the name of the manufacturer, the name of the feeds, and their analysis; and a duplicate of said tag shall be sent to the commissioner together with a request for inspection. The commissioner is hereby empowered to prescribe the form of such tax stamps; but no stamp or label shall be used or authorized by him until the same has been copyrighted according to the laws of the United States patent office. Any person failing to comply with the provisions of this or the preceding Sections shall be guilty of a misdemeanor and punished accordingly."

Any person producing or purchasing grain or other material and grinding or mixing the same for the purpose of feeding his or its own livestock, other animals or poultry shall not be subject to the provisions of this Article, provided, however, that this exemption shall not be applicable to such mixed feeds furnished, supplied or used for the growing or feeding of livestock, other animals or poultry under a contract, lease or agreement whereby commercial feeds are furnished or supplied to another person for the purpose of growing, producing or feeding livestock, other animals or poultry. It is further provided that if the inspection fee levied under the provisions of Section 59 hereof has been paid upon any concentrated commercial feeds used as a supplement or base for mixing purposes then such inspection fee shall be deducted from the gross amount of the inspection fee due on the total commercial feeds produced.

61. Statement Filed Only Once.—Whenever a person manufacturing or selling a brand of commercial feed shall have filed a statement required by Section 58 of this Article and paid the stamp tax or fee, as required by Section 59 of this Article, no

other person shall be required to file such statement or pay such tax or fee upon such brand.

62. "Each and every person manufacturing or selling any commercial feeds as defined in Section 56 of this Article shall pay to the Commissioner a stamp tax fee of twenty cents per ton for each ton of commercial feeds sold in this State, and shall affix to or accompany with each lot shipped in bulk, or each bag or parcel of such commercial feeds, a stamp to be furnished by the commissioner, specifying that all charges provided for in this Section have been paid. Any person may make application to the commissioner for a permit to report the tonnage of commercial feeds sold, and pay the tax of twenty cents per ton as herein before mentioned, on the basis of such report in lieu of affixing or furnishing tax stamps. The commissioner may grant, in his discretion, the permit and allow proper credit for any stamps on hand in possession of the person being granted the permit. All permits shall be conditioned on the applicant's agreeing to keep such records as may be necessary to indicate accurately the tonnage and kind of commercial feeds sold, and as are satisfactory to the commissioner and granting the commissioner, or his duly authorized representative, permission to examine such reports and verify the statement of tonnage. The report shall be under oath on forms furnished by the Commissioner, and shall be filed in the office of the Commissioner. The report of tonnage and tax shall be due and payable to the commissioner on or before the twentieth day of each month, which report and payment shall cover the tonnage and kind of commercial feeds sold during the preceding month. Each remittance shall be accompanied by a certificate stating that the amount remitted is correct. If the report is not filed and the tax paid by the twentieth day of the month following due date, or if the report of tonnage is false the commissioner may revoke the permit; and, if the tax is unpaid after the twentieth day of the month, the commissioner is authorized to add ten per cent to the amount of tax already due as a penalty for the failure of such person to make such report and payment on the date as herein required and shall proceed to collect such stamp tax, together with all costs incident to such inspection, including the penalty. The sale by any persons of commercial feeds in this State without the tax stamps attached to the packages, bags, containers, or parcels, or furnished with bulk lots, or without reporting and

paying the tax within thirty days from the due date, shall constitute sufficient cause for cancellation of all registrations, and the commissioner shall so cancel all registrations filed by said persons, and no further registrations shall be accepted until the past due reports shall have been filed and the tax, plus the ten percent damage, shall have been paid in full. The fact that any commercial feeds as defined in Section 56 of this article may have a value or utility as a fertilizing material or are capable of being used as fertilizers, shall not operate to exempt such material from the tax herein specified, or from tagging with regard to feed constituents. It is provided, however, that the same material shall not be subject to the imposition of both the feed stuff tax and the fertilizer tag tax."

63. Deceptive Names, Brands and Trademarks.—The Commissioner shall have the power to refuse to register any commercial feeds under a name, brand, or trademark, or with a mixture of ingredients, which would be or tend to be misleading or deceptive as to the materials of which it is composed, or when the specific name of each and all the ingredients used in the manufacture are not stated. He shall have the power to refuse to register more than one commercial feed under the same name or brand when offered by the same manufacturer, or other person. Should any commercial feeds be registered in this State and it is afterward discovered that such registration is in violation of any of the provisions of this Article, the Commissioner shall have power to cancel such registration. He shall also have power to refuse to allow any manufacturer or other person to lower the guaranteed analysis or change the ingredients of any brand of his or their commercial feeds during the term for which registered, unless satisfactory reasons are presented for making such change or changes.

64. Commissioner May Suspend Sale.—If at any time the Commissioner or his duly authorized agent, shall have reason to believe that any feed offered for sale in this State does not comply with the requirements of this Article, it shall be his duty by written order to suspend the sale of same until he shall have satisfied himself, or shall be satisfied by an analysis, or otherwise, that such feed meets the requirements of this article. If he shall find that the same does not comply with

this Article, then he is authorized to seize or cause to be seized the feed for confiscation as provided in Article 23 of this Act.

65. Samples for Analysis.—The Commissioner is hereby authorized to collect for analysis at least one sample of every brand of commercial feeds that is found to be sold in this State. Said sample shall consist of one pound in weight, and shall be taken from not less than ten bags or packages, or if there be less than ten bags or packages, then the samples shall be taken from each bag or package if it be in bag or package form, or if such feed be in bulk, then it shall be taken from ten different places of the lot. The sample or samples taken shall be kept a reasonable length of time by the Department of Agriculture and industries, and on demand, a portion of such sample or samples shall be furnished to the manufacturer, or other persons having interest in the feed, for examination by the chemists or other experts of said manufacturer or person.

66. Standards of Classification.—The State Board of Agriculture is authorized, from time to time, to establish standards of classification for commercial feeds according to grade by which their quality condition or feeding value may be judged, to alter or modify such standards as they may find necessary, and to make such investigations as may be required for such purpose. It shall be the duty of every person manufacturing or selling any commercial feed on the markets of this State, to produce any records and to answer correctly, orally or in writing, to the best of his knowledge, under oath or otherwise, as may be required, all questions propounded by the Commissioner concerning said feeds or of the raw materials entering into the composition of such commercial feeds, as may be desired for the purposes of this Section; provided, however, that no information thus obtained shall be used as a basis for any criminal prosecution against the person furnishing the same.

67. Notice of Established Standards Given.—The Commissioner shall give public notice of the establishment of such standards or any alteration or modification thereof, not less than sixty days before the date when the same shall become effective, by such means as he shall find appropriate. Such standards shall be known as the Official Standards of Alabama. The State Board

of Agriculture is also authorized from time to time to prescribe and promulgate definitions of the ingredients of commercial feeds, and to alter the same as they deem necessary; provided, that if the Secretary has established and published standards and definitions, the standards established and the definitions prescribed and promulgated by the Board under this Article shall be in accordance with those promulgated at that time by the Secretary of the United States Department of Agriculture, and that the tag or label shall plainly show in addition to the statements required by Section 57 of this Article, the grade of such commercial feeds in accordance with the Official Feed Standards of Alabama.

ARTICLE ELEVEN

(Excerpts from Agricultural Code, 1940)

**CORN, OATS, RYE, BARLEY AND COTTON SEED HULLS
—SECTIONS 136-140**

136. **Regulation of Sale of Corn, Oats, Etc.**—Any person who sells any corn, oats, rye, wheat, barley, or cotton seed hulls, in sacks or bags, except in quantities hereinafter respectively prescribed, shall be guilty of a misdemeanor.

137. **Size Sacks Authorized To Be Used.**—Oats shall be sold in sacks containing two and one half and five bushels, weighing net respectively eighty and one hundred and sixty pounds; rye and corn in two and two and one half bushel sacks weighing net one hundred and twelve pounds and one hundred and forty pounds respectively; wheat in two and two and one half bushel sacks weighing net respectively 120 and 150 pounds; barley, in two and three bushel sacks weighing net respectively ninety-six and one hundred and forty-four pounds; and cotton seed hulls in one hundred pound sacks or bags; provided, that such sacks, bags or packages shall have plainly marked or stenciled thereon in large type and figures, the net quantities herein required and the name and address of the manufacturer or distributor, as well as the grade established by the State Board of Agriculture.

(The State Board of Agriculture & Industries has approved a policy which enables this department to allow the sale of grain for food and feeding purposes in sacks or bags weighing 100 pounds net.

This action was taken because of the existing emergency which has caused material shortages for use in bagging grain.)

138. **Sale in Bulk.**—The foregoing provisions shall apply only when said articles are sold in sacks, bags or other packages, and shall not prevent the sale of any of said articles in bulk. These provisions shall not apply to sales of grains or cereals by the producer or grower of such grains or cereals.

139. **Mill Oats.**—Any person who shall sell what is known to the trade as “mill oats” or like product either by itself or in combination with a commercial feed (as defined in Article 8 of this Act) or who shall sell corn, oats, rye, wheat or barley which has been adulterated, by means of the addition thereto of screening, chaff, weed seed, wild oats, “mill oats” or water, shall be guilty of a misdemeanor, and the corn, oats, rye, wheat or barley so adulterated, shall be subject to seizure for confiscation by writ of attachment for condemnation, as provided for in Article 33 of this Act.

140. **Sulphur Bleached Grains.**—It shall be unlawful to sell in this State barley, oats, or other grains bleached with sulphur fumes whereby damage or inferiority has been concealed or water has been added, and such barley, oats or other grains shall be subject to seizure for confiscation by writ of attachment for condemnation as provided for in Article 33 of this Act; provided that barley, oats or other grains bleached by sulphur fumes may be sold in Alabama under such rules and regulations as may be adopted by the State Board of Agriculture, in cases where the bleaching does not conceal damage or inferiority, or water has not been added, when the product is plainly and distinctly labeled, “bleached with sulphur fumes.”

DEFINITIONS OF FEEDING STUFFS

(Established by the Association of Feed Control Officials, Inc.)

ALAFALFA PRODUCTS

1. Chopped Alfalfa or cut Alfalfa is chopped or cut alfalfa hay which is reasonably free of other crop plants, weeds and mold and is not ground finely enough to become meal. (Adopted prior to 1928—Amended 1937.)

2. Alfalfa Meal is the product obtained by grinding alfalfa hay which is reasonably free of other crop plants, weeds and mold. It must contain not more than 33 per cent of crude fibre. (Adopted 1928.)

3. Alfalfa Leaf Meal is the ground product consisting chiefly of alfalfa leaves. It must be reasonably free of other

crop plants and weeds and shall contain not less than 20 per cent crude protein and not more than 18 per cent crude fibre. (Adopted 1948.)

4. **Alfalfa Stem Meal** is the ground product remaining after the separation of the leafy material from alfalfa hay or meal. It must be reasonably free from other crop plants and weeds. (Adopted 1928.)

5. **Extracted Alfalfa Meal** is the dried residue remaining after extraction of alfalfa meal with organic solvents to remove chlorophyll, carotene and other fat soluble materials. (Adopted 1953.)

Resolution A. Resolved that the following guarantees be recommended for the various grades of alfalfa meal:

For 13% Protein Alfalfa Meal, crude fiber not more than 33%

For 15% Protein Alfalfa Meal, crude fiber not more than 30%

For 17% Protein Alfalfa Meal, crude fiber not more than 27%

For 20% Protein Alfalfa Meal, crude fiber not more than 22%

These standards apply also to Chopped Alfalfa or Cut Alfalfa.

NOTE—A guaranty of the crude carotene content of alfalfa products expressed in milligrams per pound, and accompanied by an expiration date, may be included on the label if the producer so desires. (Adopted 1941—Amended 1945.)

NOTE—Brand names, such as “Doe’s—% Alfalfa Meal with Animal Fat or Vegetable Oil,” shall be used to show that the product is a mixture and not simply alfalfa meal. The chemical name of the antioxidant or antioxidants shall be listed in the ingredient statement. (Adopted 1953.)

NOTE—The term “Dehydrated” may precede the name of any alfalfa product, provided that the freshly cut alfalfa having a moisture content of not less than 50 per cent has been artificially dried at a temperature of at least 100° C. or 212° F.; that the drying process covers a period of not more than forty minutes

and that there is no admixture of sun-cured alfalfa. (Adopted 1947.)

NOTE—Alfalfa Meal or pellets or granules or other products consisting preponderantly of alfalfa meal must be identified in the product name as (a) Sun-cured, (b) dehydrated, or (c) mixed sun-cured and dehydrated.

AMINO ACIDS

6. **Methionine Hydroxy Analogue Calcium** is a product which contains a minimum of 95 per cent dl-2 hydroxy-4-methylthiol butyric acid calcium salt, and 1.2 pounds are molecularly equivalent to 1.0 pound of 100 per cent dl-methionine. (Adopted 1955.)

7. **Methionine** is a product which contains a minimum of 95 per cent of dl-2-amino-4-methylthiobutyric acid. (Adopted 1957.)

8. **Glycine** is a product which contains a minimum of 97% aminoacetic acid. (Adopted 1957.)

ANIMAL PRODUCTS

Official

9. **Blood Meal** is ground, dried blood. (Adopted 1926.)

10. **Blood Flour** is dried blood, prepared by special processes and reduced to a fine powder. (Adopted prior to 1928.)

11. **Meat** is the clean, wholesome flesh derived from slaughtered mammals and is limited to that part of the striate muscle which is skeletal or that which is found in the tongue in the diaphragm, in the heart, or in the esophagus, and does not include that found in the lips, in the snout, or in the ears; with or without the accompanying and overlying fat and the portions of skin, sinew, nerve, and blood vessels which normally accompany the flesh. If it bears a name descriptive of its kind it must correspond thereto.

The term "meat" when applied to the corresponding portions of animals other than cattle, swine, sheep, and goats shall be

used in qualified form, as for example, "horse meat," "reindeer meat," "whale meat," etc. (Adopted 1938—Amended 1939.)

12. **Meat By-Products** consist of any non-rendered, clean, wholesome part of the carcass of slaughtered mammals other than meat, such as lungs, spleens, kidneys, brains, stomach and intestines free from their contents; it does not include skin, horns, teeth, hoofs, and bones. If it bears a name descriptive of its kind it must correspond thereto.

The term "meat by-products" when applied to the corresponding portions of animals other than cattle, swine, sheep, and goats shall be used in qualified form, as, for example, "horse meat by-products," "reindeer meat by-products," etc. (Adopted 1938—Amended 1939.)

13. **Meat Meal or Meat Scrap** is the finely ground, dry-rendered residue from animal tissues exclusive of hair, hoof, horn, hide trimmings, blood, meal, manure and stomach contents, except in such traces as might occur unavoidably in good factory practice. When these products contain more than 4.4 per cent of the phosphorus (P), they shall be designated either "Meat and Bone Meal" or "Meat and Bone Scrap." If the product bears a name descriptive of its kind, composition or origin it must correspond thereto. It must be designated and sold according to its protein content. (Adopted 1954.)

(NOTE)—The designation "Meat Scrap" or "Meat and Bone Scrap" must not be used in connection with food for dogs and fur-bearing animals.

14. **Digester Tankage, Meat Meal Tankage, or Feeding Tankage** is the finely ground, dried residue from animal tissues exclusive of hair, hoof, horn, manure, and stomach contents, except in such traces as might occur unavoidably in good factory practice, especially prepared for feeding purposes by tanking under live steam, or dry-rendering, or a mixture of the products. When these products contain more than 4.4 per cent of phosphorus (P), they must be designated "Digester Tankage with Bone," "Meat and Bone Meal Digester Tankage," "Meat and Bone Meal Tankage," or "Feeding Tankage with Bone." If the product bears a name descriptive of its kind, composition or origin it must correspond thereto. It must be designated and sold ac-

ording to its protein content. (Adopted 1938—Amended 1942, 1944.)

15. **Whale Meal** is prepared from the clean, dried undecomposed flesh of the whale, after part of the oil has been extracted. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no case shall the salt content of this product exceed 7 per cent. (Adopted 1933.)

16. **Animal Liver Meal** is the product obtained by drying and grinding liver from slaughtered mammals. (Adopted 1954.)

17. **Animal Liver and Glandular Meal** is the product obtained by drying and grinding liver and other glandular tissue from slaughtered mammals. At least 50 per cent of the dry weight of the product must be derived from liver. (Adopted 1954.)

18. **Extracted Animal Liver Meal** is the product obtained by drying and grinding the residue of animal liver tissue from which a large portion of the vitamins and/or minerals has been removed. (Adopted 1944.)

19. **Animal Fat** is a mixture of fats of a quality suitable for feeding, obtained from animal tissues in the commercial processes of rendering. If the product bears a name descriptive of its kind, or origin, as for example, "lard," "tallow," "beef fat," it must correspond thereto. (Adopted 1956.)

20. **Poultry By-Product Meal** consists of the ground, dry-rendered, clean, wholesome parts of the carcass of slaughtered poultry, such as head, feet, undeveloped eggs, gizzard and intestines, exclusive of feathers and gizzard and intestinal contents, except in such trace amounts as might occur unavoidably in good factory practice. (Adopted 1954.)

21. **Poultry Hatchery By-Product** is a mixture of egg shells, infertile and unhatched eggs, and culled chicks which have been cooked, dried, and ground, with or without removal of part of the fat. (Adopted 1957.)

Tentative

T-1. **Digester Tankage, or Feeding Tankage** is the finely ground, dried residue from animal tissues exclusive of hair, hoof, horn, hide trimmings, manure and stomach contents, except in such traces as might occur unavoidably in good factory practice, especially prepared for feeding purposes by tanking under live steam. When these products contain more than 4.4 per cent of phosphorus (P), they must be designated "Digester Tankage with Bone," or "Feeding Tankage with Bone." If the product bears a name descriptive of its kind, composition, or origin, it must correspond thereto. It must be designated according to its proetin content. (Proposed 1953.)

T-2. **Hydrolyzed Poultry Feathers** is the product resulting from the treatment under pressure of clean, undecomposed feathers from slaughtered poultry, free of additives, and/or accelerators. Not less than 70 per cent of its crude protein content shall consist of "digestible protein." (Proposed 1955.)

BARLEY PRODUCTS

Official

22. **Barley Hulls** is the product consisting of the outer coverings of the barley. (Adopted prior to 1928.)

23. **Barley Feed** is the entire by-product resulting from the manufacture of pearl barley from clean barley. (Adopted prior to 1928.)

24. **Barley Mixed Feed** is the entire offal from the milling of barley flour from clean barley and is composed of barley hulls and barley middlings. (Adopted prior to 1928.)

25. **Ground Barley** is the entire product obtained by grinding clean sound barley, containing not less than 90 per cent of pure barley and not more than 10 per cent of other grains, weed seeds and other foreign material and not more than 6 per cent of crude fibre; provided that no portion of this stated 10 per cent of other grains, weed seeds or other foreign material shall be intentionally added. (Adopted prior to 1928.)

26. **Rolled Barley or Crimped Barley** is heavy barley that has been rolled to desired thickness after tempering so as not to crumble. It shall contain not less than 90 per cent pure barley and not more than 10 per cent weed seeds or other foreign materials and not more than 6 per cent crude fibre. (Adopted 1949.)

Tentative

T-3. **Ground Barley** is the entire product obtained by grinding barley. It shall consist of at least 80 per cent sound barley and shall not contain more than 3 per cent heat damaged kernels, 6 per cent foreign material, 20 per cent other grains or 10 per cent wild oats. (Proposed 1957.)

(NOTE)—In the above definition, the word “crushed” or “rolled” shall be substituted for the word “ground” where the product has been crushed or rolled instead of ground and the word “crimped” shall be substituted for the word “ground” where the product has been crimped instead of ground.

(NOTE)—Barley in the above definition corresponds to requirements under the U.S. Grain Standards for whole barley of the grades No. 5 Western Barley or No. 4 Barley.

(NOTE)—In this definition foreign material shall be all matter other than barley, other grains, and wild oats which is not separated from the barley in the proper determination of dockage.

BREWER'S PRODUCTS

Official

27. **Brewer's Dried Grains** is the dried extracted residue of barley malt alone or in mixture with other cereal grain or grain products resulting from the manufacture of wort. (Adopted 1936.)

28. **Malt Sprouts** is the product obtained by the removal of the sprouts from malted barley together with the malt hulls, other parts of male and foreign material unavoidably present. It shall contain not less than 24 per cent of protein. The term “Malt Sprouts” when applied to a corresponding portion of other malted cereals shall be used in qualified form, as for example: “Rye Malt Sprouts,” “Wheat Malt Sprouts,” etc. (Adopted 1942.)

29. **Malt Cleanings** is the product obtained from the cleaning of malted barley or from the recleaning of malt which does not meet the minimum protein standard of malt sprouts. It must be designated and sold according to its protein content. (Adopted 1942.)

30. **Malt Hulls** is the product consisting almost entirely of hulls as obtained in the cleaning of malted barley. (Adopted 1942.)

31. **Dried Spent Hops** is the product obtained by drying the material filtered from hopped wort. (Adopted 1944.)

CHEMICAL PRESERVATIVES

(Antioxidants and Mold Inhibitors)

32.

Resin Guaiac	Distearyl Thiodipropionate
Lecithin	Butylated Hydroxyanisole
Nordihydroguaiaretic Acid	Butylated Hydroxy Toluene
Tocopherols	Diphenyl-Paraphenylenediamine
Citric Acid	(For Poultry feed only)
Phosphoric Acid	Ethoxy-Trimethyl Dihydroquinoline
Propyl Gallate	(For poultry feed only)
Thiodipropionic Acid	Calcium Propionate, Methyl
Sodium Benzoate	Para Hydroxyl Benzoate
Sodium Propionate	Propyl Parahydroxyl Benzoate
Dilauryl Thiodipropionate	Sorbic Acid
	Adopted 1954

(NOTE)—When using any of the above materials, the following terminology must be included: "Preserved with" or "A Preservative."

CITRUS PRODUCTS

Official

33. **Dried Citrus Pulp, Citrus Meal** consists of the dried and ground peel, residue of the inside portions and occasional cull fruits of the citrus family with or without the extraction of part of the oil of the peel. If calcium oxide or calcium hydroxide is added as an aid in processing, the maximum percentage present, expressed as calcium (CA), must be stated. If it bears a name descriptive of its kind or origin, it must correspond thereto (Adopted 1947.)

34. **Citrus Seed Meal** is a product principally of the seed of oranges and grapefruit singly or mixed, from which the major portion of the oil has been removed and is composed mostly of kernel with such portion of the hull as is necessary in the manufacture of citrus seed oil. It may contain small amounts of the seed or other varieties of citrus. It must be designated and sold according to its protein content. (Adopted 1949.)

Tentative

T-4. Dried Citrus Pulp is the ground peel, residue of the inside portions and occasional cull fruits of the citrus family from which most of the moisture has been removed, producing a coarse, flaky product. If Calcium Oxide or Calcium Hydroxide is added as an aid in processing, the maximum percentage present, expressed as Calcium (Ca) must be shown. If it bears a name descriptive of its kind or origin, it must correspond thereto. (Proposed 1956.)

T-5. Dried Citrus Meal—Citrus Fines—Citrus Screenings is the finer particles derived by mechanical means in the manufacture of dried citrus pulp. (Proposed 1956.)

T-6. Dried Citrus Pellets are produced from dried citrus meal and/or citrus screenings which have been compressed by mechanical force into various sized. (Proposed 1956.)

T-7. Citrus Seed Meal is a product obtained from the seed or seed meats of oranges and grapefruit from which most of the oil has been removed. It is composed mostly of the kernel with such portions of the hull and pulp as cannot be avoided in the manufacture of Citrus Seed Oil. It may be designated and sold according to its product content. (Proposed 1956.)

CORN PRODUCTS

Official

35. **Corn Meal** is finely ground, unbolted corn. (Adopted prior to 1928.)

36. **Corn Bran** is the outer coating of the corn kernel, with little or none of the starchy part or germ. (Adopted 1931.)

37. **Corn Feed Meal** is the fine siftings obtained in the manufacture of screened corn chop, screened ground corn or screened cracked corn, with or without its aspiration products added. (Adopted 1941.)

38. **Corn Chop, Ground Corn or Cracked Corn** is the entire product made by grinding, cutting or chopping the grains of sound Indian corn, and may be fine, medium or coarse, and must not contain more than 4 per cent of foreign material. (Adopted 1931.)

39. **Screened Corn Chop, Screened Ground Corn, or Screened Cracked Corn** is the coarse portion of corn chop, ground corn or cracked corn from which most of the fine particles have been removed, and must not contain more than 4 per cent of foreign material. (Adopted 1941.)

40. **Corn Grits or Hominy Grits** is the product consisting of the fine or medium sized, hard flinty portions of sound Indian corn containing little or none of the brand or germ. (Adopted 1941.)

41. **Ear Corn Chop, Ground Ear Corn, or Corn and Cob Meal** is the product obtained by grinding or chopping the entire ear of corn, without husks, with no greater proportion of cob than occurs in the ear corn in its natural state. (Adopted prior to 1928. Amended 1956.)

42. **Ear Corn Chop with Husks, Ground Ear Corn with Husks, Corn and Cob Meal with Husks, or Ground Snapped Corn** is the product obtained by grinding or chopping the entire ear of corn with its husk, with no greater proportion of cob and husks than occurs with the ear corn in its natural state. (Adopted 1946. Amended 1956.)

43. **Flaked Corn** is the product obtained by running cracked corn which has been aspirated and properly tempered, over smooth flaking rolls and subsequently dried and cooled. (Adopted 1946.)

44. **Toasted Corn Flakes** is the product obtained by running cracked corn which has been aspirated and properly tempered

over smooth flaking rolls, and subsequently dried, cooled, and toasted. (Adopted 1953.)

45. **Corn Gluten Feed** is that part of commercial shelled corn that remains after the extraction of the larger part of the starch gluten and germ by the processes employed in the wet milling manufacture of corn starch or syrup. It may or may not contain one or more of the following: corn solubles, corn oil meal. (Adopted 1936.)

46. **Corn Gluten Meal** is that part of commercial shelled corn that remains after the extraction of the larger part of the starch and germ, and the separation of the brand by the process employed in the wet milling manufacture of corn starch or syrup. It may or may not contain one or more of the following: corn solubles, corn oil meal. (Adopted 1936.)

47. **Maltose Processed Corn** is the dried residue from cleaned whole ground corn, after the removal of the starch in the manufacture of malt syrup. (Adopted 1946.)

48. **Maltose Process Corn Gluten Feed** is the dried residue from degermed corn, after removal of the starch in the manufacture of malt syrup. (Adopted prior to 1928.)

49. **Hominy Feed** is a mixture of corn bran, corn germ and a part of the starchy portion of either white or yellow corn kernels or mixture thereof as produced in the manufacture of pearl hominy, hominy grits or table meal, and shall contain not less than 5 per cent of crude fat. If prefixed with the words "white" or "yellow," the product must correspond thereto. (Adopted 1935.)

50. **Corn Oil Cake** or **Corn Oil Flakes** consist of the corn germ from which most of the oil has been removed by hydraulic, expeller, or solvent extraction, and is the product obtained in the wet milling process of manufacture of corn starch, corn syrup, and other corn products. For each product, the designating name must include a term (hydraulic, expeller, or solvent extracted) descriptive of the process of manufacture, and the product must correspond thereto. (Adopted 1952.)

51. **Corn Oil Meal** is ground corn oil cake or corn oil flakes. Its name must include one of the terms (hydraulic, expeller, or solvent extracted) to indicate the method of manufacture of the source material. (Adopted 1952.)

52. **Corn Germ Cake** consists of corn germ with other parts of the corn kernel from which part of the oil has been pressed, and is the product obtained in the dry milling process of manufacture of corn meal, corn grits, hominy feed, and other corn products. (Adopted prior to 1928.)

53. **Corn Germ Meal** is ground corn germ cake. (Adopted prior to 1928.)

54. **Corn Screenings** is the product consisting of the small light grains of corn, parts of grains of corn or other cereals, and other materials having feeding value, separately or together, obtained by screening shelled corn, excluding sand, dirt and other similar inert materials. (Adopted 1931.)

55. **Dried Corn Syrup** is the product resulting from spray-drying or roll-drying regular conversion corn syrup. It shall have a dextrose equivalent of not less than 42%. (Adopted 1955.)

56. **Hydrolyzed Corn Protein** is the product resulting from complete hydrolysis of isolated corn gluten, and after partial removal of the glutamic acid. (Adopted 1956.)

T-8. **Kibbled Corn** is the product obtained by cooking cracked corn under steam pressure and extruding from an expeller or other mechanical pressure device. (Proposed 1956.)

T-9. **Dehydrated Corn Plant** is the entire corn plant consisting of the ear, leaves, and stalk, which has been artificially dried and ground. (Proposed 1956.)

T-10. **Corn Cob Ring Cellulose** is the hard woody ring, vascular ring, or sclerified ring fraction of corn cobs produced in the mechanical separation of corn cobs. (Proposed 1956.)

T-11. **Ground Corn Cob** is the product resulting from grinding the entire cob. If it is designated as "Fine Ground," the en-

tire grind must pass through a number ten sieve and thirty-three per cent of the total material must pass through a number twenty sieve. If it is designated "Coarse Ground," the entire grind must pass through a number four sieve and fifty percent must pass through a number ten sieve. If it is designated as "Dehydrated," it must contain not more than ten per cent moisture. (Proposed 1956.)

COTTONSEED PRODUCTS

Official

57. **Cottonseed Meal** is a product of the cottonseed only, composed principally of the kernel with such portion of the hull as is necessary in the manufacture of oil; provided that nothing shall be recognized as cottonseed meal that does not conform to the foregoing definition and that does not contain at least 36 per cent of protein. Cottonseed meal shall be graded and classed as follows: (Adopted prior to 1928.)

58. **Cottonseed Meal, Prime Quality** must be finely ground, not necessarily bolted, be free from excessive lint, must not have a sour, musty or burnt odor, and shall contain not less than 36 per cent of protein. It must be designated and sold according to its protein content. Cottonseed meal with 36 per cent of protein must be termed "36 per cent Protein Cottonseed Meal, Prime Quality," and higher grades similarly designated by changing "36" to the appropriate protein content. (Adopted prior to 1928—Amended 1954.)

59. **Cottonseed Meal, Off Quality.** Cottonseed meal not fulfilling the Prime Quality requirements as to odor or texture must be graded "36 per cent Protein Cottonseed Meal, Off Quality" and higher grades similarly designated by changing "36" to the appropriate protein content. (Adopted prior to 1928—Amended 1954.)

60. **Solvent Extracted Cottonseed Flakes** is the product obtained after solvent extraction of the oil from cottonseed kernels and such portions of the hull as is necessary in the manufacturing process. (Adopted 1949.)

61. **Solvent Extracted Cottonseed Meal** is the product resulting from grinding solvent extracted cottonseed flakes. It must be designated and sold according to its protein content. (Adopted 1949.)

62. **Cottonseed Feed** is a product containing cottonseed meal and cottonseed hulls. It shall contain not less than 22 per cent protein. (Adopted 1952.)

63. **Whole Pressed Cottonseed, Prime Quality** is the product resulting from subjecting the whole, sound, mature, clean, undecorticated cottonseed to pressure for the extraction of oil, and includes the entire cottonseed less the oil extracted and the lint removed. It must be designated and sold according to its protein content. (Adopted 1932.)

64. **Ground Whole Pressed Cottonseed, Prime Quality** is whole pressed cottonseed, ground. It must be designated and sold according to its protein content. (Adopted 1932.)

65. **Cottonseed Cake** is a product of the cottonseed only, composed principally of the kernel with such portion of the hull as is necessary in the manufacture of oil; provided that nothing shall be recognized as cottonseed cake that does not conform to the following definitions and that does not contain at least 36 per cent of crude protein. Cottonseed Cake shall be graded and classed as follows: (Adopted 1937.)

66. **Cottonseed Cake, Prime Quality** must be firm, but not flinty in texture, not have a sour or musty odor, free of mold, and when ground into meal must produce cottonseed meal, prime quality. It shall contain not less than 36 per cent of crude protein. It must be designated and sold according to its protein content. Cottonseed cake with 43 per cent of crude protein must be termed "43 per cent Protein Cottonseed Cake, Prime Quality," and lower grades similarly designated. (Adopted 1937.)

67. **Cottonseed Cake, Off Quality.** Cottonseed Cake not fulfilling the Prime Quality requirements as to odor or texture must be labeled "43 per cent Protein Cottonseed Cake, Off Quality," and lower grades similarly labeled, replacing "43" with the appropriate protein content. (Adopted 1937—Amended 1954.)

68. **Nut-Size Cottonseed Cake—Quality.** Nut-size cottonseed cake shall be a product which will pass through 1½ inch round perforation and over ⅞ inch round perforation. It shall be free from meal, pea-size and pebble-size cake and shall not contain in excess of 10 per cent of sheep-size cake. It must be designated and sold according to its protein content. (Adopted 1937.)

69. **Sheep-size Cottonseed Cake—Quality.** Sheep-size cottonseed cake shall be a product which will pass through ⅞ inch round perforation and over ⅞ inch round perforation. It shall be free from meal and pebble size cake and shall not contain in excess of a total of 10 per cent nut-size and pea-size cakes. It must be designated and sold according to its protein content. (Adopted 1937.)

70. **Pea-Size Cottonseed Cake—Quality.** Pea-size cottonseed cake shall be a product which will pass through ⅝ inch round perforation and over ⅜ inch round perforation. It shall be free from meal and nut-size cake and shall not contain in excess of 10% of sheep-size and pebble-size cake. It must be designated and sold according to its protein content. (Adopted 1937.)

71. **Pebble-Size Cottonseed Cake—Quality.** Pebble-size cottonseed cake shall be a product consisting of fine particles and small pieces of cottonseed cake capable of passing through a ⅜ inch round perforation. It must be designated and sold according to its protein content. (Adopted 1937.)

72. **Cottonseed Cubes or Pellets, Prime Quality** processed through a cubing or pelleting machine, must be firm, but not flinty, not have a sour or musty odor, free of mold, and when ground into meal, must produce cottonseed meal, prime quality. It shall contain not less than 36 per cent of crude protein. It must be designated and sold according to its protein content. (Adopted 1937.)

73. **Degossypolized Cottonseed Meal** shall mean cottonseed meal from which the gossypol has been deactivated, so as to contain not more than 0.04 per cent free gossypol. (Adopted 1953.)

Resolution A. Whereas, many States which have adopted the Association's definitions for cottonseed products require that a guaranty of crude fat and crude fibre content in cottonseed meal be made; therefore, for the sake of uniformity of labels and registrations, and in such cases where there is no conflict with existing feed laws, be it

Resolved that the following guarantees of crude fat and crude fibre be recommended for other than solvent extracted cottonseed meal:

	Crude Fat Not less Than	Crude Fibre Not More Than
For 36% Protein Cottonseed Meal	2.00%	17.00%
For 41% Protein Cottonseed Meal	2.00%	14.00%
For 43% Protein Cottonseed Meal	2.00%	13.00%

(Adopted 1935—Amended 1952-1955.)

Resolution B. Resolved that the following guarantees of crude fat and crude fibre be recommended for solvent extracted cottonseed meal:

	Crude Fat Not less Than	Crude Fibre Not More Than
For 36% Protein Cottonseed Meal	0.50%	17.00%
For 41% Protein Cottonseed Meal	0.50%	14.00%
For 43% Protein Cottonseed Meal	0.50%	13.00%

(Adopted 1946—Amended 1951—Amended 1952.)

DISTILLERS PRODUCTS

Official

74. **Corn Distillers Dried Grains** is the product obtained in the manufacture of distilled liquors and alcohol from corn, or from a grain mixture in which corn predominates, by drying that portion of the whole stillage retained by screens. (Adopted 1951.)

75. **Rye Distillers Dried Grains** is the product obtained in the manufacture of distilled liquors and alcohol from rye, or from a grain mixture in which rye predominates, by drying that portion of the whole stillage retained by screens. (Adopted 1951.)

76. **Wheat Distillers Dried Grains** is the product obtained in the manufacture of distilled liquors and alcohol from wheat, or from a grain mixture in which wheat predominates by drying that portion of the whole stillage retained by screens. (Adopted 1951.)

77. **Grain Sorghum Distillers Dried Grains** is the product obtained in the manufacture of distilled liquors and alcohol from grain sorghums or from a grain mixture in which grain sorghum predominates, by drying that portion of the whole stillage retained by screens. (Adopted 1951.)

78. **Corn Distillers Dried Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from corn, or from a grain mixture in which corn predominates, by condensing and drying the screened stillage obtained therefrom. (Adopted 1951.)

79. **Rye Distillers Dried Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from rye, or from a grain mixture in which rye predominates, by condensing and drying the screened stillage obtained therefrom. (Adopted 1951.)

80. **Wheat Distillers Dried Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from wheat, or from a grain mixture in which wheat predominates, by condensing and drying the screened stillage obtained therefrom. (Adopted 1951.)

81. **Grain Sorghum Distillers Dried Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from grain sorghum, or from a grain mixture in which grain sorghum predominates, by condensing and drying the screened stillage obtained therefrom. (Adopted 1951.)

82. **Corn Distillers Dried Grains with Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from corn, or from a grain mixture in which corn predominates by drying that portion of the whole stillage retained by screens to which condensed screen stillage has been added so that the final product contains not less than $3/4$ of the solids content of the whole stillage. (Adopted 1951.)

83. **Rye Distillers Dried Grains with Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from rye, or from a grain mixture in which rye predominates, by drying that portion of the whole stillage retained by screens to which condensed screened stillage has been added so that the final product contains not less than $3/4$ of the solids content of the whole stillage. (Adopted 1951.)

84. **Wheat Distillers Dried Grains with Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from wheat, or from a grain mixture in which wheat predominates, by drying that portion of the whole stillage retained by screens to which condensed screened stillage has been added so that the final product contains not less than $3/4$ of the solids content of the whole stillage. (Adopted 1951.)

85. **Grain Sorghum Distillers Dried Grains with Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from grain sorghum, or from a grain mixture in which grain sorghum predominates, by drying that portion of the whole stillage retained by screens to which condensed screened stillage has been added so that the final product contains not less than $3/4$ of the solids content of the whole stillage. (Adopted 1951.)

86. **Molasses Distillers Dried Solubles** is the product obtained by drying the residue from the yeast fermentation of molasses after the removal of the alcohol by distillation. (Adopted 1943—Amended 1944.)

87. **Molasses Distillers Condensed Solubles** is the product obtained by condensing to a syrupy consistency the residue from the yeast fermentation of molasses after the removal of the alcohol by distillation. (Adopted 1946.)

88. **Potato Distillers Dried Residue** is the dried product obtained after the manufacture of alcohol and distilled liquors from potatoes or from a mixture in which potatoes predominate. (Adopted 1947.)

DRUGS OR MEDICAMENTS

89. Antibiotic Feed Supplement is a feeding material used for its antibiotic activity. It shall contain a single antibiotic or combination of antibiotics havng growth-promoting properties. The name and amount of each antibiotic shall be declared on the label. It shall contain a minimum of 1 gram per pound of antibiotics. (Adopted 1952.)

NOTE—The label shall bear the legend “For Feeding Use Only.”

TR-1. Formula Feeds containing drug ingredients intended or represented for the cure, mitigation, treatment or prevention of disease of animals other than man, and substances other than feeds intended to affect the structure or any function of the body of animals other than man, shall be labeled to show, in addition to other information required by feed laws:

(a) the name of each ingredient including the name of each therapeutically active ingredient or agent stated as such,

(b) adequate directions for use, and

(c) adequate warnings against use under those conditions in which its use may be dangerous to health. Provided, that the term “drug” as used herein does not apply to vitamin, mineral, or other substances used solely for nutritional purposes. (Proposed 1946.)

(d) The use of medicaments in proprietary mixed feeds for combating diseases of non-nutritional origin is not to imply an endorsement by this Association. (Proposed 1947.)

DRUGS IN ANIMAL FEEDS

DRUGS CURRENTLY USED IN ANIMAL FEEDS*

90. New Drugs

2-acetyl-amino-5-nitrothiazole
 arsenosobenzene
 dienestrol diacetate
 2, 4-diamino-5 (p-chlorophenyl) 6-ethylpyrimidine
 diethylstilbestrol
 nicarbazin
 carbarsone
 hygromycin B:
 2, 2'dihydroxy-3,3',5,5'-tetrachlorodiphenyl sulfide (bithionol) and
 4, 6-diamino-1-(4 methylmercaptophenyl)-1,2-dihydro-2,2-dimethyl-1,3,5 triaine hydrochloride (methiotriazanine)

Certifiable Antibiotics

91.

bacitracin
 chlortetracycline
 dihydrostreptomycin
 penicillin
 streptomycin

*Not New Drugs

92.

acetyl (p-nitrophenyl) sulfanilamide
 amino nitrothiazole
 arsanilic acid
 cadmium anthranilate
 cadmium oxide
 di-N-butyltin dilaurate
 2,2' dihydroxy-5,5' dichlorodiphenyl-methane
 dinitrophenylsulfonylethylenediamine
 dried rumen organisms
 nicotine
 3-nitro-4-hydroxyphenyl arsonic acid
 nitrofurazone
 nitrophenide
 furazolidone
 trimethyl hexadecyl ammonium stearate)

trimethyl octadecyl ammonium stearate)

Dynafac

trimethyl hexadecyl ammonium sterate)

4-nitrophenyl-arsonic acid

oxytetracycline

pepsin

phenothiazine

sodium arsanilate

sodium fluoride

sodium propionate

sufaquinoxaline

menadione sodium bisulfite

iodinated casein

para aminobenzoic acid

piperazine phosphate monohydrate

piperazine dihydrochloride & monohydrochloride

piperazine sulfate

piperazine

piperazine hexahydrate

*These or other substances may be drugs or even new drugs under specific condition of use and representation.

93. RECOMMENDATIONS FOR PREPARATION OF LABELS FOR FEEDS WHICH CONTAIN DRUGS

The following information is intended for use as a guide in preparing labels for new products and in revising labels for present products when necessary. It is suggested that typed copy of proposed labeling be submitted to State and Federal officials for comment before the copy is submitted to the printer.

Types of Labels

Labels for medicated complete feeds generally fall into 4 different types, as follows:

Type 1 is for a feed which contains drug(s) for growth promotion and/or disease prevention, and which is to be fed continuously for an indefinite period. The product name is followed by the word "medicated" in letters at least half as tall as those of the product name. This type of label can be used for any drug-containing feed not included among the other types. Ex-

empted from medicated labeling are feeds which contain non-therapeutic levels of antibiotics (those with less than 50 grams per ton usually qualify), since these are not classed as medicated feeds.

Type 2 is for a feed which contains drug(s) at the treatment level, to be fed as the sole ration for a limited period of time. The word "medicated" appears in the forefront of the product name, in letters of same size as remainder of product name.

Type 3 is for a feed which contains hormone(s) or hormone-like substances (e.g., diethylstilbestrol.)

Type 4 is for a feed which contains drug(s) at the treatment level for a specific disease or condition. It differs from Type 2 only in that the product name indicates the purpose of the drug and the word "medicated" thus need not be a part of the product name (e.g., "Pig Wormer").

Supplements or premises which contain drugs and which are to be diluted by mixing with other feeds before use are also covered by these four types of labels. The type of label to be used in each case will depend upon the purpose of the drug and directions for use of the finished feed after such dilution. If the resulting feed when diluted according to directions will contain non-therapeutic levels and no therapeutic claims are made, Type 1 label will be used. If the directions given are such that Type 2 as well as Type 1 can apply, then the Type 2 label must be used. Complete directions for feeding are to be included in labeling any feed which may be sold to the feeder either in the original package or in custom-mixed feeds.

Information Required on the Label

Drug-containing feeds are required to carry certain information in their labeling. The requirements are essentially the same for all four types. It is suggested that the label carry this information in the following form:

1. Net Weight.
2. Brand name or trade name.

3. Product name (may include brand name and, for Types 1 and 2, the word "medicated").
4. Purpose (statement of the purpose of the medication and reference to directions for use).
5. Active drug ingredients (list of common names, not trade names, and percentage present, for each drug. Antibiotics are to be expressed in grams per pound and may also be in grams per ton).
6. Guaranteed analysis of the feed.
7. Feed ingredients (common name of each).
8. Name and address of manufacturer or registrant.
9. Detailed feeding directions (to be displayed prominently on either front or reverse side of the label). A check list follows:
 - a. Purpose (if necessary to clarify or amplify the above statement).
 - b. When to feed (specific period necessary for effective use).
 - c. How to feed, or mix for feeding (feeding method to be followed, i.e., free choice, sole ration, intermittent feeding, etc., mixing directions for premixes, etc., should give proper level of medication for purpose intended).
 - d. Precautions (statement of precautions where misuse of the product may be injurious to animals or man.)
 - e. Warning statement (a withdrawal period may be required for safety. With a mixture of drugs, use the longest period). See example below.
 - f. Other feeds (reference may be made to other feeds which have a part in a feeding program for the animal.)

Suggested Warnings and Caution Statements

To be used on Medicated Feeds

1. ANTHELMINTICS: CADMIUM OXIDE AND CADMIUM ANTHRANILATE:

Warning—Treated hogs must not be slaughtered for human

consumption for at least 30 days following treatment to permit elimination of excess cadmium residues from edible tissue.

2. AMINONITROTHIAZOLE:

Warning—Discontinue use at least one week before slaughtering poultry for human consumption to permit elimination of the drug from edible tissues.

3. ACETYLAMINONITROTHIAZOLE:

Warning—Discontinue use at least one week before slaughtering poultry for human consumption to permit elimination of the drug from edible tissues.

4. ARSENICALS, ORGANIC:

Warning—Discontinue use at least 5 days before slaughtering for human consumption to permit elimination of the drug from edible tissues.

5. NICARBAZIN:

Warning—Discontinue use at least 4 days before slaughter for human consumption to allow for the elimination of the drug from edible tissues.

6. FURAZOLIDONE:

Important—Poultry which have survived salmonella outbreaks should not be kept for layinghouse replacement, or breeders, unless tests show they are not carriers.

7. DIETHYLSTILBESTROL IN BEEF CATTLE FEEDS:

Warning—Discontinue use at least 48 hours before slaughtering animals for human consumption.

FERMENTATION PRODUCTS

Official

94. **Extracted**..... Presscake is the filtered and dried mycelium obtained fermentation. (For label identification the source shall be indicated as penicillium, streptomyces, citric acid, etc.) (Adopted 1951.)

95. **Extracted**..... Meal is the ground..... presscake. (For label identification the source shall be indicated as penicillium, streptomyces, citric acid, etc.) (Adopted 1951.)

96. **Dried Extracted** Fermentation Solubles is the dried extracted broth obtained from fermentation. (For label identification the source shall be indicated as penicillium, streptomyces, citric acid, etc.) (Adopted 1951.)

97. **Dried Extracted** **Meal and Fermentation Solubles** is the filtered and dried mycelium and dried extracted broth obtained from fermentation. (For label identification the source shall be indicated as penicillium, streptomyces, citric acid, etc.) (Adopted 1951.)

GRAIN SORGHUMS

(Milo, Hegari, Kaffir, or Feterita)

Official

98. **Grain Sorghum Chop** is the entire product made by grinding, cutting, or chopping the grains of Grain Sorghums. If the name of the variety is given, it must be true to name. (Adopted 1947.)

99. **Grain Sorghum Head Chop** is the chopped entire head of grain sorghums including grain and stems. If the name of the variety is given, it must be true to name. (Adopted prior to 1928—Amended 1945.)

100. **Grain Sorghum Gluten Feed** is that part of the grain of Grain Sorghums that remains after the extraction of the larger part of the starch and germ, by the processes employed in the wet milling manufacture of starch or syrup. If the name of the variety is given, it must be true to name. (Adopted 1948—Amended 1950.)

101. **Grain Sorghum Gluten Meal** is that part of the grain of Grain Sorghums that remains after the extraction of the larger part of the starch and germ, and the separation of the bran by the processes employed in the wet milling manufacture of starch or syrup. If the name of the variety is given, it must be true to name. (Adopted 1948—Amended 1950.)

102. **Grain Sorghum Oil Cake** consist of the germ of Grain Sorghum grains from which part of the oil has been pressed and is the product obtained in the wet milling process of manufacture of starch, syrup, and other grain sorghum products. If the name

of the variety is given, it must be true to name. (Adopted 1948—Amended 1950.)

103. **Grain Sorghum Oil Meal** is ground grain sorghum oil cake. If the name of the variety is given, it must be true to name. (Adopted 1948—Amended 1950.)

104. **Grain Sorghum Mill Feed** is a mixture of Grain Sorghum Bran, Grain Sorghum Germ and a part of the starchy portion of the grain as produced in the manufacture of Grits from Grain Sorghums, and shall contain not more than 5 per cent of crude fiber. If the name of the variety is given, it must be true to name. (Adopted 1946—Amended 1950.)

105. **Grain Sorghum Feed Meal** is the fine siftings obtained in the manufacture of rolled or flaked grain-sorghum grains. If the name of the variety is given, it must be true to name. (Adopted 1952.)

106. **Rolled Grain Sorghum** is the product obtained by running whole grain sorghums over smooth flaking rolls, after properly tempering, removing most of the fine particles, and subsequently dried and cooled. If the name of the variety be given, it must be true to name. (Adopted 1953.)

Tentative

T-12. **Grain Sorghum Grits** is the product consisting of the hard flinty portions of grain sorghums containing little or no bran or germ. If the name of the variety is given, it must correspond thereto. (Proposed 1957.)

LESPEDEZA PRODUCTS

Official

107. **Lespedeza Meal** is the product obtained from the grinding of the entire lespedeza hay, without the addition of any lespedeza stems, lespedeza straw, or foreign material, or the abstraction of leaves. It shall be reasonably free from other crop plants and weeds, and must not contain more than 28 per cent of crude fibre. (Adopted 1938.)

108. **Lespedeza Stem Meal** is the ground product remaining after the separation of the leafy material from lespedeza hay or meal. It shall be reasonably free from other crop plants and weeds. (Adopted 1938.)

109. **Lespedeza Straw Meal** is the ground product remaining after the separation of the seed from lespedeza. It shall be reasonably free from other crop plants and weeds. (Adopted 1938.)

LINSEED AND FLAX PRODUCTS

OFFICIAL

110. **Linseed Oil Cake, Linseed Oil Chips, and Linseed Oil Flakes** are the products obtained by removal of most of the oil from flaxseed by the several methods; hydraulic (old process), expeller, and solvent extraction, respectively. For each product the designating name must include a term (hydraulic, expeller, or solvent extracted) descriptive of the process of manufacture and the product must correspond thereto. The products shall contain not more than 0.5 per cent of acid-insoluble ash, and they must be designated and sold according to their protein content (Adopted 1943—Amended 1949.)

111. **Linseed Oil Meal** is the product obtained by finely grinding the cake, chips or flakes obtained, according to the process employed in the production of linseed oil. It must be designated and sold according to its protein content and its name must include one of the terms "hydraulic," "expeller," or "solvent extracted" to specify the method of manufacture of the source material. (Adopted 1943—Amended 1949.)

112. **Linseed Cubes or Linseed Pellets** consist of linseed oil meal produced by either of the three processes recognized in definition 100, which has been processed through a cubing or pelleting machine. The product shall be firm but not flinty, of sweet odor and free from mold. It must be designated and sold according to its protein content, and its name must include one of the terms "hydraulic," "expeller," or "solvent extracted" to specify the method of manufacture of the source material. (Adopted 1943—Amended 1947-1949.)

113. **Linseed Feed** is the product obtained by mixing one or more linseed oil meals with flaxseed screenings oil feed with or without other flaxseed by-products. It must be designated and sold according to its protein content. (Adopted 1943—Amended 1949.)

114. **Flaxseed Screenings Oil Feed** is the ground product

obtained after extraction of part of the oil by crushing, cooking, and hydraulic or mechanical pressure, or by crushing, heating and the use of solvents, from the smaller imperfect flaxseed, weed seeds and other foreign materials having feeding value separated in cleaning flaxseed. (Adopted 1943.)

115. **Flax Plant Product** is that portion of the flax plant having feeding value remaining after harvesting the seed and separation of the bast fibers and flax shives. It consists of the leaves, corticle tissues, flax seed bolls, broken and immature flax seeds. It shall contain a minimum of 9% crude protein and a maximum of 35% crude fiber. (Proposed 1952.)

MARINE PRODUCTS

Official

116. **Fish Meal** is clean, dried, ground tissues of undecomposed whole fish or fish cuttings, either or both, with or without the extraction of part of the oil. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no case shall the salt content of this product exceed 7 per cent. (Adopted 1933.)

117. **Fish Residue Meal** is the clean, dried, undecomposed residue from the manufacture of glue from non-oily fish. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no case shall the salt content of this product exceed 7 per cent (Adopted 1933.)

118. **Fish Liver and Glandular Meal** is the product obtained by drying the complete coelomic contents of the fish. At least 50 per cent of the dry weight of the product must be derived from fish liver and must contain at least 18 milligrams of riboflavin per pound. (Adopted 1944—Amended 1945.)

119. **Condensed Fish Solubles** is the product obtained by condensing the aqueous portion of the mixture resulting from pressing the oil from fish. (Adopted 1946—Amended 1954.)

120. **Crab Meal** is the undecomposed ground dried waste of the crab and contains the shell, viscera and part or all of the flesh. It shall contain not less than 25 per cent of protein. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no

case shall the salt content of this product exceed 7 per cent (Adopted 1933.)

121. **Shrimp Meal** is the undecomposed ground dried waste of shrimp and contains the head, hull or whole shrimp, either or in mixture. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no case shall the salt content of this product exceed 7 per cent. (Adopted 1933.)

Tentative

T-13. **Homogenied Condensed Fish** is a partially dehydrated product made from fish and/or fish cuttings from which part of the oil may have been removed. It shall contain not less than 50 per cent of total solids, exclusive of salt. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided in no case shall the salt content exceed 7 per cent. (Proposed 1957.)

T-14. **Dried Fish Solubles Precipitate** is the dried and ground precipitate obtained by adjusting the raw press-water containing fish solubles to an approximate pH 4.5. (Proposed 1957.)

T-15. **Fish Grandular and Liver Hydrolysate** is the partially dehydrated, ground entire Coelomie contents of the fish, digested by the enzymes naturally present in the fish. It shall contain a minimum of 20 per cent liver by weight. The solids content of this product shall not be less than 50 per cent, and if it contains more than 3 per cent salt (NaCl), the amount of salt must constitute part of the brand name, provided that in no case shall the salt content exceed 7 per cent. (Proposed 1957.)

Future Discussion

F-1. **Fish Bone Meal** is the dried ground product obtained by separating the bones of the whole fish or fish cuttings. It shall contain not less than 8.5 per cent phosphorus. The label shall include a guarantee for protein, calcium (Ca) and phosphorus (P). (Suggested 1957.)

MILK PRODUCTS

Official

122. **Dried Buttermilk** is the product resulting from the removal of water from clean, sound buttermilk derived from natural cream to which no foreign substances have been added, excepting such as are necessary and permitted in the manufacture of butter. It shall contain not more than 8 per cent of moisture, not more than 13 per cent of mineral matter (ash), and not less than 5 per cent of butterfat, as determined by the Roesse-Gettlieb method. (Adopted 1932.)

123. **Evaporated Buttermilk, Concentrated Buttermilk or Condensed Buttermilk** is the product resulting from the removal of a considerable portion of water from clean, sound buttermilk derived from natural cream to which no foreign substances have been added, excepting such as are permitted and necessary in the manufacture of butter. It shall contain not less than 27 per cent of total solids, not less than .055 per cent of butterfat for each per cent of solids, and not more than .14 per cent of ash for each per cent of solids. (Adopted prior to 1928—Amended 1944.)

124. **Dried Skimmed Milk** is the product resulting from the removal of water from clean, sound skimmed milk. It shall contain not more than 8 per cent of moisture. (Adopted 1930.)

125. **Condensed Skimmed Milk** is the product resulting from the removal of a considerable portion of water from clean, sound skimmed milk. It shall contain not less than 27 per cent of total solids. (Adopted 1930.)

126. **Dried Cultured Skimmed Milk** is the product resulting from the removal of water from clean, sound skimmed milk which has been cultured by a suitable culture of lactic bacteria. It shall contain not more than 8 per cent of moisture. (Adopted 1932.)

127. **Evaporated Cultured Skimmed Milk, Concentrated Cultured Skimmed Milk or Condensed Cultured Skimmed Milk** is the product resulting from the removal of a considerable portion of water from clean, sound skimmed milk which has been cultured by a suitable culture of lactic bacteria. It shall contain not less than 27 per cent of total solids. (Adopted 1932.)

128. **Dried Whole Whey** is dried clean, sound cheese and/or

casein whey. It shall contain not less than 65 per cent of lactose. (Adopted 1934—Amended 1948-1950-1951.)

129. **Condensed Whole Whey** is the product resulting from the removal of a considerable portion of water from clean, sound cheese or casein whey, either or both. It shall not contain less than 62 per cent of total whey solids. When this product contains less than 62 per cent of total whey solids, it shall be designated "condensed whole whey,—per cent solids." (Adopted 1944—Amended 1951.)

130. **Dried Whey Solubles** is the dried product resulting from the removal of albumen and the partial removal of milk sugar from clean, sound whey, to which no foreign substances have been added except such as are necessary in the manufacture of milk sugar. (Adopted 1944.)

131. **Condensed Whey Solubles** is the product resulting from removal of albumen and the partial removal of milk sugar from clean, sound whey to which no foreign substances have been added except such as are necessary in the manufacture of milk sugar. (Adopted 1944.)

132. **Dried Hydrolyzed Whey** is a dried product which contains not less than 30% monosaccharides (glucose and galactose) which is derived entirely from lactase enzyme hydrolysis of whole whey. (Adopted 1955.)

133. **Condensed Hydrolyzed Whey** is a condensed product which is derived entirely from lactase enzyme hydrolysis of whole whey. It shall contain not less than 50 per cent total solids and not less than 0.3 per cent of monosaccharides (glucose and galactose) for each per cent of solids. (Adopted 1955.)

134. **Condensed Whey-Product** is the product resulting from the removal of a considerable portion of water and the partial removal of milk sugar from clean, sound whey to which no foreign substances have been added. It shall contain not less than 50 percent of total whey-products solids. When this product contains less than 50 per cent of total whey-products solids, it shall be designated "condensed whey-products.....per cent solids." (Adopted 1948.)

135. **Dried Whey-Product.....Per Cent Lactose** is the dried product resulting from the partial removal of milk sugar from

clean, sound whey to which no foreign substances have been added. When listed as an ingredient in manufactured feeds the term "Dried Whey Products" may be used. (Adopted 1951—Amended 1952.)

136. **Condensed Cultured Whey** is partially dehydrated clean, sound cheese and/or casein whey that has been cultured by a suitable ferment. It shall contain not less than 62 per cent of total cultured whey solids. If it contains less than 62 per cent of total cultured whey solids, it shall be designated "Condensed Cultured Whey,.....per cent solids." (Adopted 1949.)

137. **Casein** is the product resulting from acid or rennet precipitation of skimmed milk. It must contain at least 80 per cent of crude protein. (Adopted 1946.)

138. **Cheese Rind** is cooked, partially defatted cheese trimmings. (Adopted 1935.)

139. **Dried Milk Albumen** is the dried coagulated protein fraction separated from whey. It shall contain not less than 75 per cent protein (N x 6.25) on a moisture-free basis. (Adopted 1952.)

140. **Dried Whole Milk** is the product resulting from the removal of water from milk and contains not more than 8 per cent of moisture and not less than 26 per cent butterfat as determined by the Roesse-Gottlieb method. (Adopted 1952.)

MINERAL FEEDS

Official

141. **Bone Ash** is the ash obtained by burning bones with free access to air, and containing a minimum of 15.3 per cent of phosphorus (P). The label shall show a guarantee for calcium (Ca), and phosphorus (P). (Adopted 1935—Amended 1952.)

142. **Bone Charcoal or Bone Black** is the product obtained by charring bones in closed retorts. It shall contain not less than 14 per cent of phosphorus (P). The label shall show a guarantee for calcium (Ca), and phosphorus (P). (Adopted 1938—Amended 1952.)

143. **Spent Bone Black** is the product resulting from the repeating charring of bone charcoal or bone black after use in clarifying sugar solutions. It shall contain not less than 11.5 per cent of phosphorus (P). The label shall show a guarantee for calcium (Ca.), and phosphorus (P). (Adopted 1938—Amended 1952.)

144. **Steamed Bone Meal** is the dried ground product suitable for animal feeding, obtained by cooking bones with steam under pressure. (Adopted 1929.)

145. **Special Steamed Bone Meal** is the dried, ground product suitable for animal feeding, obtained by cooking dried bones, after the removal of grease and meat fibre, with steam under pressure in the process of obtaining gelatin or glue. (Adopted 1929.)

146. **Calcite, Ground Limestone, Chalk Rock, Precipitated Chalk, Oyster Shell Flour, Shell Flour, and Precipitated Calcium Carbonate** are acceptable sources of calcium carbonate. They shall in each instance be true to name and shall contain not less than 33% calcium (Ca). They shall be declared as ingredients only by the names listed above. (Adopted 1952.)

147. **Calcium Carbonate** is a product containing not less than 38 per cent calcium (Ca). (Adopted 1946.)

148. **Magnesium Limestone or Dolomite Limestone** is acceptable as a source of magnesium and calcium carbonates. The terms are synonymous and designate a native mineral composed of mixtures of magnesium carbonate ($MgCO_3$) with calcium carbonate ($CaCO_3$). It shall contain not less than 10% magnesium (Mg) and shall be declared as an ingredient only by one of the names listed above. (Adopted 1946—Amended 1952.)

149. **Defluorinated Phosphate** includes either calcined, fused, or precipitated calcium phosphate. It shall contain not more than one part of fluorine (F) to 100 parts of phosphorus (P). The minimum percentage of calcium (Ca) and phosphorus (P) and the maximum percentage of fluorine (F) shall be stated on the label. The term "Defluorinated" shall not be used as a

part of the name of any product containing more than one part of fluorine (F) to 100 parts of phosphorus (P). (Adopted 1952.)

150. **Low Fluorine Rock Phosphate** is ground phosphate rock containing not more than 0.5 per cent fluorine. The minimum percentage of calcium (Ca) and phosphorus (P) and the maximum percentage of fluorine (F) shall be stated on the label (Adopted 1949.)

151. **Iodized Salt** is common salt (NaCl) containing not less than 0.007 per cent iodine, uniformly distributed. (Adopted 1942.)

152. **Additional Officially Recognized Mineral Ingredients.** The following inorganic (Mineral) chemicals are recognized as suitable ingredients in animal feeds under controlled conditions and when so used they shall be true to name and of purity equal to the commonly recognized "commercial grade" for the article and shall be declared as ingredients only by the names herein used:

Calcium Gluconate	Manganese Gluconate
Calcium Iodate	Manganese Oxide
Cobalt Acetate	Manganese Phosphate
Cobalt Carbonate	Manganese Sulfate
Cobalt Chloride	Manganoferro Phosphate
Cobalt Oxide	Magnesium Sulfate
Cobalt Sulfate	Monocalcium Phosphate
Copper Carbonate	Potassium Iodide
Copper Gluconate	Rock Phosphate
Copper Hydroxide	Salt
Copper Iodide	Sodium Bicarbonate
Copper Oxide	Sodium Molybdate
Copper Sulfate	Sodium Sulfate
Di-Calcium Phosphate	Soft Phosphate with Colloidal
Diiodosalicylic Acid	Sulfur
Iron Carbonate	Thymol Iodide
Iron Gluconate	Tri-Calcium Phosphate
Iron Oxide	Zinc Acetate
Iron Phosphate	Zinc Carbonate
Iron Sulfate	Zinc Chloride
Manganese Carbonate	Zinc Oxide
Manganese Dioxide	Zinc Sulfate
	Clay

Tentative

T-16. **Feeding Phosphoric Acid** is a solution of phosphoric acid in water containing 75 per cent H_3PO_4 and 25 per cent H_2O and shall contain not less than 23.7 per cent phosphorus (P), not more than 0.05 per cent fluorine (F) (1 part fluorine (F) to 474 parts of phosphorus (P), 75 ppm of Arsenic (As) and 30 ppm of heavy metals reported as lead, color to be white to amber, turbidity clear to faint hazy. When this is used as an ingredient in mixed feeds, it shall be indicated in the ingredient list as "Phosphoric Acid." (Proposed 1957).

T-17. **Steamed Bone Meal or Cooked Bone Meal** is the dried, ground product suitable for animal feeding obtained by cooking undecomposed bone in water or with steam under pressure. Grease and meat fiber may or may not be removed. The label shall include a guarantee for calcium (Ca) and phosphorus (P). It may be designated in ingredient lists on feed tags as 'Bone Meal.' (Proposed 1957.)

Future Discussion

F-2. **Dicalcium Phosphate from Bone or Precipitated Bone Phosphate** is the residue of bones that have been treated first in a caustic solution and then in a hydrochloric acid solution, and thereafter precipitated with lime and dried. It shall contain not less than 17% phosphorus (P). The label shall include a guarantee for calcium (Ca) and phosphorus (P). (Suggested 1952.)

Regulations

Regulation A. **Mineral Feeds:**

(a) Substances which are intended as feed for animals other than man to supply primary mineral elements or inorganic nutrients shall be classified as mineral feeds. A guarantee for protein, fat, and fiber is not required.

(b) Feeds, mixed or unmixed, including mixtures containing both organic ingredients and 5 per cent or more of mineral ingredients, shall be labeled to show, in addition to the other information required by law, the minimum per cent of calcium (Ca), phosphorus (P), iodine (I) and the maximum percent of salt (NaCl) if present. The ingredients shall be stated in the

form in which used. When such mixtures contain relatively large amounts of salt, such as trace mineralized salt, then the guarantee on the label shall show the minimum percentage of salt (NaCl).

Resolutions

Resolution B. Resolved that the use of the term Bone Phosphate of Lime (BPL) be discouraged in connection with the labeling of feed ingredients. (Adopted 1952.)

Resolution C. Resolved that if a minimum and a maximum percentum of calcium is guaranteed, then the maximum percentum of calcium shall not exceed by more than 20 percent the minimum percentum of calcium [Example: Calcium (Ca) minimum 10 percent, maximum 12 percent] and provided further, that in the event that minimum percent of calcium is 5 percent or less, the maximum percent of calcium may exceed the minimum by one percent of calcium. [Example: Calcium (Ca) minimum 3 percent, maximum 4 percent.] (Adopted 1957.)

MOLASSES

Official

153. **Feeding Beet Molasses** is a by-product of the manufacture of beet sugar from sugar beets and shall contain 48 per cent or more of total sugars expressed as invert sugar. Its solution in an equal weight of water shall test not less than 39.75 degrees Brix. (Adopted 1941.)

154. **Feeding Corn Sugar Molasses** is a by-product of the manufacture of corn sugar from corn and shall contain 43 per cent or more of reducing sugars expressed as dextrose, and shall contain 60 per cent or more of total carbohydrates (dextrins, and reducing and non-reducing sugars). Its solution in an equal weight of water shall test not less than 39.00 degrees Brix. (Adopted 1941—Amended 1952-1953.)

155. **Feeding Citrus Molasses** is the partially dehydrated juice of citrus fruit. It shall contain not less than 45 per cent of total sugars expressed as invert sugar. Its solution in an equal weight of water shall test not less than 35.5 degrees Brix. (Adopted 1952.)

Tentative

T-18. **Feeding Cane Molasses** is a product prepared from the juice of sugar cane. It may consist of various types of cane molasses or blends thereof with or without addition of other constituents which are normally present in and derived from cane molasses, provided the total sugar content expressed as invert sugar is not less than 48 per cent and the Brix by double dilution is not less than 79.5°. (Proposed 1957.)

Resolution. Resolved that label guarantees for protein, fat and fiber not be required for molasses. (Adopted 1956.)

OAT PRODUCTS

Official

156. **Oat Hulls** is the product consisting primarily of the outer covering of the oat. (Adopted prior to 1928.)

157. **Oat Middlings** is the product consisting of the floury portions of the oat groat obtained in the milling of rolled oats. (Adopted prior to 1928.)

158. **Oat Shorts** is the product consisting of the covering of the oat grain lying immediately inside the hull, being a fuzzy material carrying with it considerable portions of the fine floury part of the groat obtained in the milling of rolled oats. (Adopted prior to 1928.)

159. **Oat Chop, Ground Oats, Pulverized Oats, Crushed Oats** or **Crimped Oats** consist of the entire product made by chopping, cutting, grinding, crushing, or crimping whole oats. It shall contain not more than 10 per cent of other grains, weed seeds, and other foreign material. (Adopted 1952.)

160. **Oat groats** are the kernels produced from cleaned and dried oats in the process of manufacturing oat meal. (Adopted 1931.)

161. **Hulled Oats, or Undried Oat Groats** are the kernels produced from the undried grain in the process of hulling oats. (Adopted 1931.)

162. **Feeding Oat Meal** is a product obtained in the manufacture of rolled oat groats or rolled oats and consists of broken rolled oat groats, oat groat chips, and floury portions of the oat groats, with only such quantity of finely ground oat hulls as is unavoidable in the usual process of commercial milling. It must not contain more than 4 per cent of crude fibre. (Adopted 1938.)

163. **Cut Oat Groats, Cracked Oat Groats, or Ground Oat Groats** is the product produced by cutting, cracking, or grinding oat groats. (Adopted 1938.)

164. **Clipped Oat By-Products** is the by-product obtained in the manufacture of clipped oats. It may contain the light chaffy material broken from the end of the hulls, empty hulls, light immature oats and dust. It must not contain an excessive amount of oat hulls. (Adopted prior to 1928.)

165. **Oat Mill By-Product** is the entire by-product obtained in the manufacture of oat groats and consists of oat hulls, and particles of the groat. It shall contain not more than 32 per cent crude fiber. (Adopted 1956.)

Tentative

T-19. Oat Chop, Ground Oats or Pulverized Oats consist of the entire product made by chopping or grinding whole oats. It shall contain a minimum of 80 per cent sound cultivated oats and shall not contain more than 10 per cent wild oats; 3 per cent heat damaged kernels of oats, other grains and wild oats; and 5 per cent foreign material. (Proposed 1957.)

T-20. Mixed Feed Oat Chop, Ground Mixed Feed Oats or Pulverized Mixed Feed Oats consist of the entire product made by chopping or grinding a mixture of grain containing at least 30 per cent of cultivated oats provided that the mixture consists of either (a) not less than 65 per cent of cultivated and wild oats combined, or (b) not less than 65 per cent of wild oats. It shall not contain more than 25 per cent of other grains, not more than 6 per cent heat damaged kernels of oats, wild oats and other grains, and not more than 10 per cent foreign material which 10 per cent may include 4 per cent fine seeds. (Proposed 1957.)

NOTE—In these definitions the word “crushed” shall be substituted for “ground” where the product has been crushed instead of ground and the word “crimped” shall be substituted for “ground” where the product has been crimped instead of ground.

NOTE—The definition for Ground Oats corresponds to the requirements for Grade 4 Oats under the U.S. Grain Standards for whole oats.

NOTE—The definition for Ground Mixed Feed Oats corresponds to the requirements for Grade No. 3 Mixed Feed Oats under the U.S. Grain Standards for Whole Mixed Feed Oats.

NOTE—In these definitions “foreign material” shall include all matter except kernels and pieces of kernels of cultivated oats, other grains and wild oats; and shall include oat clippings and detached hulls.

PEANUT PRODUCTS

Official

166. **Peanut Cake** is the product obtained after the extraction of part of the oil by pressure or solvents from peanut kernels as produced under reasonable milling conditions. It must be designated and sold according to its protein content. (Adopted 1941.) (Amended 1950.)

167. **Peanut Meal** is ground peanut cake containing no hulls and not more than 7% fiber. It must be designated and sold according to its protein content. The term “solvent extracted” shall appear in the name of a product so processed. (Adopted 1954.)

168. **Peanut Meal and Hulls** is ground peanut cake with added hulls, or, is the ground residue after the extraction of part of the oil from whole peanuts. It must be designated and sold according to its protein content. The term “solvent extracted” shall appear in the name of a product so processed. (Adopted 1954.)

169. **Peanut Skins** is the outer covering of the peanut kernel, exclusive of hulls, as obtained in the usual process of commercial milling. This product may contain broken peanut kernels. (Adopted 1946.)

170. **Peanut Vine Meal** is the ground product obtained after the separation of peanuts from peanut vines and contains all or a large portion of the leaves and vines. (Adopted 1944.)

171. **Peanut Stem Meal** is the ground product obtained after the separation of peanuts from peanut vines from which practically all of the leaves have been removed and only vines and stems remain. (Adopted 1944.)

RICE PRODUCTS

Official

172. **Rice Brand** is the pericarp or bran layer of the rice, with only such quantity of hull fragments as is unavoidable in the regular milling of rice. (Adopted prior to 1928.)

173. **Rice Polishings** is a by-product of rice obtained in the milling operation of brushing the grain to polish the kernel. (Adopted 1938.)

174. **Rice Meal** is ground brown rice or ground rice after the hull has been removed. (Adopted prior to 1928.)

175. **Ground Rough Rice** is ground rice from which the hull has not been removed or ground paddy rice. (Adopted prior to 1928.)

176. **Rice Stone Bran** is the sifting from the materials secured in removing hulls from rice and contains rice germ, broken rice and some rice hulls. (Adopted prior to 1928.)

177. **Rice Huller Bran** is a product secured by the huller and cones from brown rice and consists mostly of the bran and germ. (Adopted prior to 1928.)

178. **Solvent Extracted Rice Bran** is the product obtained by removing part of the oil from rice bran or rice mill bran by the use of solvents and must contain not less than 14 per cent protein and not more than 14 per cent fiber. (Adopted 1951.)

179. **Rice Mill By-Product** is the total offal obtained in the milling of rice. It consists of rice hulls, rice bran, rice polish, and broken rice grains. Its crude fibre content shall not exceed 30 percent. (Adopted 1957.)

RYE PRODUCTS**Official**

180. **Rye Bran** is the coarse outer covering of the rye kernel as separated from the cleaned and scoured rye. (Adopted prior to 1928.)

181. **Rye Feed** is a by-product obtained in the usual process of the milling of rye flour from cleaned and scoured rye, consisting principally of the mill-run of the outer covering of the rye kernel and the rye germ with small quantities of rye flour and aleurone, and must not contain more than 9.5 per cent of crude fibre. (Adopted 1946.)

182. **Rye Red Dog** is the by-product obtained in the usual process of the milling of rye flour, consisting principally of aleurone with small quantities of rye flour and fine bran particles and must not contain more than 3.5 per cent of crude fibre. (Adopted prior to 1928.)

183. **Rye Low-Grade Feed Flour** consists principally of rye flour and small quantities of aleurone and fine rye bran particles and must not contain more than 1.5 per cent of crude fibre. (Adopted prior to 1928.)

184. **Rye Middlings** consist of rye feed and rye red dog combined in the proportions obtained in the usual process of milling rye flour, and must not contain more than 8.5 per cent of crude fibre. (Adopted 1946.)

185. **Rye Flour Middlings** consists of rye feed, rye red dog and rye flour combined in the proportions obtained in the milling of rye flour and must not contain more than 5 per cent of crude fibre. (Adopted prior to 1928.)

SCREENINGS**Official**

186. **Screenings** is the by-product obtained in the cleaning of grains which are included in the United States Grain Standard Act and other agricultural seeds. It may include light and broken

grains and agricultural seeds, weed seeds, hulls, chaff, joints, straw, elevator or mill dust, sand and dirt. It shall be designated as Grain Screenings, Mixed Screenings and Chaff and/or Dust.

No grade of screenings shall contain any seeds or other material in amount that is either injurious to animals or will impart an objectionable odor or flavor to their milk or flesh. The screenings shall contain not more than four whole primary noxious weed seeds per pound and shall contain not more than 100 whole secondary noxious weed seeds per pound. The primary and secondary noxious weed seeds shall be those named as such by the individual state seed control laws.

All grades of screenings shall bear minimum guarantees of protein and fat and maximum guarantees of fiber and ash. When used in mixed feeds the portion of the description appearing in parenthesis in these definitions shall appear in the list of ingredients. (Adopted 1953.)

187. **Grain Screenings** shall consist of 70 per cent or more of grain (light and broken) including wild buckwheat and wild oats. It shall contain not more than 6.5 per cent ash. It shall be labeled "Grain Screenings (from wheat, corn, oats, etc.)." (Adopted 1953.)

188. **Mixed Screenings** is screenings excluded from the preceding grade. It shall be labeled "Mixed Screenings (grain, seeds, hulls, chaff)". It shall contain not more than 27 per cent fiber. If it contains more than 13 per cent ash, the words "sand" and "dirt" shall be included in the parenthetical statement. (Adopted 1953—Amended 1954.)

189. **Chaff and/or Dust** is material that is separated from grains or seeds in the usual commercial cleaning processes. It may include hulls, joints, straw, mill or elevator dust, sweepings, sand, dirt, grains, seeds. It shall be labeled "Chaff and/or Dust." If it contains more than 15 per cent ash the words "sand" and "dirt" shall appear on the label. (Adopted 1953.)

SOYBEAN PRODUCTS

Official

(NOTE—The process used in the production of various Soybean Oil Meal products shall be indicated in the brand name.)

190. **Ground Soybeans** is the product obtained by grinding whole soybeans without cooking or removing any of the oil. (Adopted 1933.)

191. **Soybean Mill Feed** is the by-product resulting from the manufacture of soybean flour or grits and is composed of soybean hulls and the offal from the tail of the mill. (Adopted 1944.)

192. **Soybean Hay Meal** is the product obtained from the grinding of the entire soybean hay, without the addition of any stems, straw, or foreign material, or the abstraction of leaves or beans. It shall be reasonably free from other crop plants and weeds and shall contain not more than 33 per cent of crude fibre. (Adopted 1944.)

193. **Soybean Hulls** is the product consisting of the outer covering of the soybean. (Adopted 1948.)

194. **Solvent Extracted Soybean Feed** is the material resulting from the partial removal of protein and nitrogen-free extract from solvent extracted soybean oil meal. It shall be designated and sold according to its protein content. (Adopted 1948.)

195. **Expeller Soybean Oil Chips** is the product obtained after expressing part of the oil from soybeans by crushing, cooking and mechanical pressure using an expeller, screw press, or any other mechanical press. It shall be designated and sold according to its protein content. (Adopted 1948.)

196. **Expeller Soybean Oil Meal** is the product resulting from grinding expeller soybean oil chips. It shall be designated and sold according to its protein content. (Adopted 1948.)

197. **Hydraulic Soybean Oil Cake** is the product obtained after expressing part of the oil from soybeans by crushing, cooking, and hydraulic pressure. It shall be designated and sold according to its protein content. (Adopted 1948.)

198. **Hydraulic Soybean Oil Meal** is the product resulting from grinding hydraulic soybean oil cake. It shall be designated and sold according to its protein content. (Adopted 1948.)

199. **Solvent Extracted Soybean Flakes** is the product obtained after extracting most of the oil from soybeans by cracking, heating, flaking and the use of solvents. After extraction of the oil the product is cooked. It shall be designated and sold according to its protein content. (Adopted 1953.)

200. **Solvent Extracted Soybean Oil Meal** is the product resulting from grinding Solvent Extracted Soybean Flakes. It shall be designated and sold according to its protein content. (Adopted 1948.)

201. **Dehulled Solvent Extracted Soybean Flakes** is the product obtained after extracting most of the oil from dehulled soybeans by cracking, heating, flaking and the use of solvents. After extraction of the oil the product is cooked. It shall contain not more than 3 per cent crude fibre and shall be designated and sold according to its protein content. (Adopted 1953.)

202. **Dehulled Solvent Extracted Soybean Oil Meal** is the product resulting from grinding dehulled solvent extracted soybean flakes. It shall contain not more than 3 per cent crude fibre and shall be designated and sold according to its protein content. (Adopted 1953.)

203. **Soybean Cubes** or **Soybean Pellets** consist of soybean oil meal which has been processed through a cubing or pelleting machine. The product shall be firm but not flinty, of sweet odor and free from mold. It must be designated and sold according to its protein content and its name must include one of the terms "hydraulic," "expeller," or "solvent extracted" to specify the method of manufacture of the source material. (Adopted 1951.)

Tentative

T-21. **Soya Grits** or **Soya Bean Grits** is the sized, screened product obtained after extracting most of the oil from dehulled soy beans by cracking, heating, flaking and the use of solvents. It shall contain not more than 3 per cent crude fiber and shall be designated and sold according to its protein content. (Proposed 1956.)

VITAMINS

Official

204. **Cod Liver Oil** is the oil obtained from the livers of gadus morrhuae or other species of the family gadidae, either or both. It must contain not less than 385,900 U.S.P. units of vitamin A per pound (850 units per gram) and not less than 29,510 International Chick Units of vitamin D per pound (65 units per gram). (Adopted 1937—Amended 1945-50.)

205. **Cod Liver Oil with Added Vitamin A & D Concentrates** is the product consisting of cod liver oil to which have been added small percentages of concentrates which are rich in vitamins A & D. The product shall contain not less than 136,200 International Chick Units of vitamin D per pound (300 per gram) and shall carry a minimum vitamin A guaranty. (Adopted 1948—Amended 1950.)

206. **Vitamin A Feeding Oil** is either fish or fish liver oil or a blend of two or more of the following: Vitamin A concentrate, fish liver oil, fish oil, marine animal oil, or edible vegetable oil. The vitamin potency shall be stated in U.S.P.² units of vitamin A per pound. (Additional permissive per gram.) (Adopted 1944—Amended 1945.)

207. **Vitamin D₂ Supplement** is a feeding material used for its vitamin D₂ activity. It shall contain a minimum of 100,000 U.S.P. units of vitamin D per pound. (Adopted 1956.)

208. **Vitamin D Feeding Oil** is either fish or fish liver oil or a blend of two or more of the following: Vitamin D concentrate, synthetic vitamin D, fish liver oil, fish oil, marine animal oil, or edible vegetable oil. The vitamin potency shall be stated in International Chick Units of vitamin D per pound. (Additional permissive per gram.) (Adopted 1944—Amended 1945-50.)

209. **Vitamin A & D Feeding Oil** is either fish or fish liver oil or a blend of two or more of the following: Vitamin A and/or D concentrate, synthetic vitamin D, fish liver oil, fish oil, marine animal oil, or edible vegetable oil. The vitamin potency shall be

²United States Pharmacoeia.

stated in International Chick Units of vitamin D and U.S.P. units of vitamin A per pound. (Additional permissive per gram.) (Adopted 1944—Amended 1945-1950.)

210. **D Activated Animal Sterol** is a product which is obtained by activation of a sterol fraction of animal origin with ultra-violet light or other means. For label identification it may be followed with the parenthetical phrase ("Source of Vitamin D³"). (Adopted 1942.)

211. **D Activated Plant Sterol** is a product which is obtained by activation of a sterol fraction of plant origin with ultra-violet light or other means. For label identification it may be followed with the parenthetical phrase ("Source of Vitamin D³"). (Adopted 1944.)

212. **Dried** **Fermentation Solubles** is the product obtained by the concentration and dehydration of the liquid by-product resulting from the action of the ferment on the basic medium of grain, molasses, whey, or other media and shall contain not less than 18 milligrams of riboflavin per pound on a moisture-free basis. For label identification the source shall be indicated as "Dried Whey Fermentation Solubles." (Adopted 1948—Amended 1951.)

213. **Condensed** **Fermentation Solubles** is the product resulting from the removal of a considerable portion of the liquid by-product resulting from the action of the ferment on the basic medium of grain, molasses, whey, or other media, and shall contain not less than 18 milligrams of riboflavin per pound on a moisture-free basis. For label identification the source shall be indicated as "Condensed Whey Fermentation Solubles." (Adopted 1948—Amended 1951.)

214. **Vitamin B₁₂ Supplement** is a feeding material used for its vitamin B₁₂ activity. It shall contain a minimum vitamin B₁₂ activity of 1.5 milligrams per pound. The term shall not be applied to products for which there are accepted names and definitions. (Adopted 1952.)

215. **Vitamin E Supplement** is a feeding material used for its Vitamin E activity. It shall contain a minimum Vitamin E

activity equal to 10,000 International Units of Vitamin E per pound. The label shall bear a statement of Vitamin E activity in terms of International Units of Vitamin E per pound. (Adopted 1953.)

216. **Riboflavin Supplement** is a feeding material used chiefly for its riboflavin content, and shall contain not less than 1,000 milligrams of riboflavin per pound. The label shall bear a parenthetical statement of origin immediately following this declaration. (Adopted 1957.)

Future Discussion

F-3. Vitamin A Supplement is a feeding material used for its Vitamin A content. It is composed of a vehicle and Vitamin A and/or its compounds. It shall contain not less than two million U.S.P. units of Vitamin A per pound. The label shall state the source of Vitamin A activity. (Suggested 1956.)

217.

<u>Recognized English Name</u>	<u>Article or Substance Indicated</u>
Ascorbic Acid	Crystalline ascorbic acid relatively free of impurities.
Betaine Hydrochloride	Crystalline chloride of betaine relatively free of impurities.
Biotin	Biotin relatively free of impurities.
Calcium Pantothenate	Crystalline calcium pantothenate relatively free of impurities.
Carotene	The refined crystalline carotene fraction of plants.
Choline Chloride	Choline chloride relatively free of impurities.
Choline Pantothenate	Crystalline choline pantothenate relatively free of impurities.
Folic Acid	Crystalline folic acid relatively free of impurities.
Herring Oil	The oil extracted from whole or parts of herring.
Menadione	Crystalline menadione relatively free of impurities.
Menadione Sodium Bisulfite	The addition product of menadione and sodium bisulfite containing not less than 60 percent of menadione sodium bisulfite.
Menhaden Oil	The oil extracted from whole menhaden.
Niacin; Nicotinic Acid	Crystalline nicotinic acid relatively free of impurities.
Niacinamide; Nicotinamide	Crystalline amide of nicotinic acid relatively free of impurities.
Pyridoxine Hydrochloride	Crystalline chloride of pyridoxine relatively free of impurities.
Riboflavin	Crystalline riboflavin relatively free of impurities.

Salmon Oil	The oil extracted from cannery refuse of salmon.
Salmon Liver Oil	The oil extracted from salmon livers.
Sardine Oil; Pilchard Oil	The oil extracted from whole or parts of pilchard.
Shark Liver Oil	The oil extracted from shark livers.
Stearine	The stearine fraction of animal or vegetable oils.
Thiamine; Thiamine Hydrochloride	Crystalline cholride of thiamine relatively free of impurities.
a-Tocopherol	a-Tocopherol relatively free of impurities.
Tuna Oil	The oil extracted from cannery refuse of tuna.
Vitamin A Acetate	Vitamin A acetate relatively free of impurities.
Vitamin A Palmitate	Vitamin A Palmitate relatively free of impurities.
Wheat Germ Oil	The oil extracted or expressed from wheat germ.

Resolution A. Resolved:

(a) That the International chick unit of vitamin D is the activity produced by one unit of vitamin D in the U. S. Pharmacopoeia "Vitamin D Reference Standard" determined according to the method of the Association of Official Agricultural Chemists.

(b) That guaranties of minimum vitamin content of feeds and feed supplements shall be stated in units or milligrams per pound as provided herein; vitamin E activity in International Units, vitamin A, other than precursors of vitamin A, in USP Units, vitamin D in products offered for poultry feeding in International Chick Units, vitamin D for other uses in USP Units, all other vitamins as true vitamins, not compounds, excepting only pyridoxine hydrochloride, choline chloride, and thiamine; oils and concentrates containing vitamin A or vitamin D or both may be additionally labeled to show vitamin content in units per gram.

(c) That the word "vitamin" or a contraction thereof, or any word suggesting a vitamin, may be used only in the brand name of a feed represented solely to be a vitamin supplement and which is labeled with the minimum vitamin content guaranteed as specified in (b) hereof.

- (d). 1. That no declaration of vitamin content of a feed or feed supplement shall appear in the ingredient statement or any other part of the label of a proprietary feed excepting that such statement is a guarantee of minimum vitamin content of the entire product given in terms as specified in (b) hereof.
2. That the common feed and/or mineral guaranties be not required for any product represented solely to be a vitamin supplement and which is labeled with a minimum vitamin guarantee as specified in (b) hereof.

Resolution B.

Resolved that if a feeding material is represented to be a combined vitamin B¹² and antibiotic feed supplement, it shall meet the potency standards and other label and informational requirements established for each component.

WHEAT PRODUCTS

Official

218. **Wheat Bran** is the coarse outer covering of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial milling. (Adopted prior to 1928.)

219. **Wheat Mixed Feed** consists of the coarse outer covering of the wheat kernel, fine particles of wheat bran, wheat germ, and wheat flour, and the offal from the "tail of the mill." This product shall be obtained in the usual process of commercial milling and shall contain not more than 9.5 per cent of crude fibre. (Adopted 1949.)

220. **Wheat Standard Middlings** consists of fine particles of wheat bran, wheat germ, wheat flour and some of the offal from the "tail of the mill." This product shall be obtained in the usual process of commercial milling and shall contain not more than 9.5 per cent of crude fibre. (Adopted 1949.)

221. **Wheat Brown Shorts** consists of fine particles of wheat bran, wheat germ, and wheat flour and some of the offal from the "tail of the mill." This product shall be obtained in the usual process of commercial milling and shall contain not more than 7.5 per cent of crude fibre. (Adopted 1949.)

222. **Wheat Gray Shorts, Wheat Gray Middlings, or Wheat Flour Middlings** consists of fine particles of wheat bran, wheat germ, wheat flour, and the offal from the "tail of the mill." The product shall be obtained in the usual process of commercial milling and shall contain not more than 6 per cent of crude fibre. (Adopted 1949.)

223. **Wheat Red Dog, Wheat White Shorts or Wheat White Middlings** consists of the offal from the "tail of the mill" together with some fine particles of wheat bran, wheat germ, and wheat flour. This product shall be obtained in the usual process of commercial milling and shall contain not more than 4.0 per cent of crude fibre. (Adopted 1949.)

224. **Wheat Feed Flour** consists principally of wheat flour together with fine particles of wheat bran, wheat germ, and the

offal from the "tail of the mill." This product shall be obtained in the usual process of commercial milling and shall contain not more than 1.5 per cent of crude fibre. (Adopted 1949.)

225. **Wheat Germ Meal** consists chiefly of wheat germ, together with some bran and middlings or shorts. It shall contain not less than 25 per cent of protein and 7 per cent of fat. (Adopted 1949—Amended 1953.)

226. **Wheat Germ Oil Cake** is the cake secured in the removal of part of the oil from wheat germ meal and shall contain not less than 29 per cent of protein. (Adopted 1949.)

227. **Wheat Germ Oil Meal** is ground wheat germ oil cake. (Adopted 1944.)

YEAST

Official

228. **Primary Dried Yeast** or **Dried Yeast** is the dried, non-fermentative yeast of the botanical classification *Saccharomyces* which has been separated from the medium in which propagated. It shall contain not less than 40 per cent protein. (Adopted 1955.)

229. **Active Dry Yeast** is yeast which has been dried in such a manner as to preserve a large proportion of its fermenting power. It must contain no added cereal or filler and must contain not less than 15 million live yeast cells per gram. (Adopted 1951.)

230. **Irradiated Yeast, Irradiated _____ Yeast** is yeast which has been subjected to ultra-violet rays in order to increase its anti-rachitic potency. (Adopted 1944.)

(NOTE)—When Irradiated Yeast or Irradiated _____ Yeast is used as an ingredient of proprietary feeds for four-footed animals, the name may be followed by a parenthetical phrase "(source of vitamin D²)." (Adopted 1945.)

231. **Brewers' Dried Yeast** is the dried, non-fermentative, non-extracted yeast of the botanical classification *Saccharomyces* resulting as a by-product from the brewing of beer and ale. It shall contain not less than 40 per cent protein. (Adopted 1955.)

232. **Grain Distillers' Dried Yeast** is the dried, non-fermentative yeast of the botanical classification *Saccharomyces* resulting from the fermentation of grains and yeast, separated from the mash, either before or after distillation. It shall contain not less than 40 per cent protein. (Adopted 1955.)

233. **Molasses Distillers' Dried Yeast** is the dried, nonfermentative yeast of the botanical classification *Saccharomyces* resulting from the fermentation of molasses and yeast, separated from the medium either before or after distillation. It shall contain not less than 40 per cent protein. (Adopted 1955.)

234. **Dried Torula Yeast** is the dried, non-fermentative yeast of the botanical classification *Torulopsis* which has been separated from the medium in which propagated. It shall contain not less than 40 per cent protein. (Adopted 1955.)

235. **Yeast Culture** is the dried product composed of Yeast and the media on which it was grown, dried in such a manner as to preserve the fermenting activity of the yeast. The media shall be stated on the label. (Adopted 1957.)

NOTE—No reference to media in ingredient listing is required when yeast culture forms a component of a proprietary mixed feed.

MISCELLANEOUS PRODUCTS

Official

236. **Dried Apple Pomace** is the sound, dried residue obtained by the removal of cider from apples. (Adopted 1929.)

237. **Dried Apple Pectin Pulp** is the sound, dried residue obtained by the removal of pectin from apple products. (Adopted 1929.)

238. **Dried Beet Pulp** is the dried residue from sugar beets which have been cleaned and freed from crowns, leaves, and sand, and which have been extracted in the process of manufacturing sugar. (Adopted prior to 1928.)

239. **Condensed Beet Solubles Product** is the product obtained after partial removal of potassium salts and glutamic acid

from a condensed filtrate obtained in a process for recovering sugar from beet molasses. (Adopted 1955.)

240. **Buckwheat Feed** is a mixture of buckwheat middlings and buckwheat hulls. It must not contain more than 30 per cent of crude fibre. (Adopted 1944.)

241. **Buckwheat Middlings** is that portion of the Buckwheat grain immediately under the hull after separation of the flour. It shall contain no more hulls than is obtained in the usual process of buckwheat milling, and must contain not more than 10 per cent of crude fibre. (Adopted 1944.)

242. **Cocoanut Oil Meal or Copra Oil Meal** is the ground residue remaining after removal of most of the oil from the dried meat of the cocoanut. The name must include a term descriptive of the process of manufacture, (hydraulic, expeller or solvent process). It shall be designated according to its protein content. (Adopted 1955.)

243. _____ **Oil Cake,** _____ **Oil Chips,** _____ **Oil Flakes** is the product remaining after removal of most of the oil from ground seed cleaned of foreign materials. The name must include a term descriptive of the process of manufacture (hydraulic, expeller or solvent extracted) and of its kind. It shall be designated according to its protein content. (Adopted 1953.)

(NOTE)—This definition applies only to commodities not otherwise defined.

244. _____ **Oil Meal** is _____ oil cake, chips or flakes ground to meal. The name must include a term descriptive of the process of manufacture (hydraulic, expeller or solvent extracted) and of its kind. It shall be designated according to its protein content. (Adopted 1953.)

(NOTE)—The definition applies only to commodities not otherwise defined.

245. **Ground Almond Hulls or Almond Hull Meal** is the product obtained by drying and grinding that portion of the almond fruit which surrounds the nut. It shall be reasonably free of the nutshell and other foreign material. (Adopted 1953.)

246. **Dried Tomato Pomace** is a dried mixture of tomato skins, pulp and crushed seeds resulting from the process of extracting the juice from tomatoes. (Adopted 1937.)

247. **Velvet Bean Meal** is ground velvet beans containing only an avoidable trace of hulls or pods. (Adopted prior to 1928.)

248. **Ground Velvet Bean and Pod** is the product derived by grinding velvet beans with the pod. It contains no additional pods or other materials. (Adopted prior to 1928.)

249. **Yeast Dried Grain** or **Vinegar Dried Grains** is the properly dried residue from the mixture of cereals, malt and malt sprouts (sometime cottonseed meal) obtained in the manufacture of yeast or vinegar, and consists of corn or corn and rye from which most of the starch has been extracted, together with malt added during the manufacturing process to change the starch to sugar, and malt sprouts (sometimes cottonseed meal) added during the manufacturing process to aid in filtering the residue from the wort and to serve a source of food supply for the yeast. (Adopted prior to 1928.)

250. **Straw Meal** is the ground product remaining after separation of the seed from mature forage plants. The source of the material shall constitute a part of the name of the product; as for example, "Blue Grass Straw Meal," "Alfalfa Straw Meal." (Adopted 1948.)

251. **Grass Meal** is the product obtained by drying and grinding grass which has been cut before formation of the seed. If a specie name is used the product must correspond thereto. (Adopted 1949.)

252. **Ramie Leaf Meal** is the ground product consisting chiefly of leaves from the ramie plant. It must not contain more than 18% of crude fibre. (Adopted 1949.)

253. **Dehydrated Garbage** is composed of artificially dried animal and vegetable waste from garbage collected sufficiently often that harmful decomposition has not set in, and from which have been separated crockery, glass, metal, string and similar materials. Its odor shall not be suggestive of the presence of

decomposition, and it shall not contain more than one-fifth of one per cent glass, none of which shall be knifelike or needlelike particles. It shall be processed at a temperature sufficient to destroy all organisms capable of producing animal diseases. If part of the grease and fats is removed it shall be designated as Degreased Dehydrated Garbage. (Adopted 1954.)

254. **Whole Pressed Safflower Seed** is the ground residue obtained after extracting the oil from whole safflower seed. The name must include a term descriptive of the process of manufacture—hydraulic, expeller, solvent. (Adopted 1954.)

255. **Hydrolyzed.....Oil** is the product resulting from the acid or alkaline hydrolysis of vegetable oil or of fractions of vegetable oil, obtained during refining. It consists predominantly of the fatty acids but also includes some neutral oil, pigments, phospholipids and other natural components of the crude oil. Its source shall be stated as part of the official name of the product, as for example, "Hydrolyzed Cottonseed Oil." (Adopted 1956.)

256. **Cereal Foods Crumbs** consists of particles of breakfast cereals obtained as a by-product of their processing. (Adopted 1957.)

Tentative

T-22.....**Oil.....Ester** consists of a hydrolyzed vegetable oil which has been chemically reacted with an alcohol to produce an ester. Its name shall specify both the oil and the alcohol from which it is produced. For example, Cottonseed Oil Methyl Ester, Soybean Oil Ethyl Ester. (Proposed 1956.)

T-23. **Bakery Crumbs** consists of pieces of sound, dry bread and/or other bakery products suitable for animal feeding. (Proposed 1956.)

257. Additional Officially Recognized Ingredients:

RECOGNIZED ENGLISH NAME	ARTICLE OR SUBSTANCE INDICATED BY THE NAME AND SYNONYM
Aniseed	The dried ripe fruit of <i>Pimpinella Anisum</i> . Stimulant, carminative and flavoring agent.

Capsicum; Red Pepper	The dried, ripe fruit of any species of Capsicum.
Caraway Seed	The dried fruit of carum carvi. Stimulant, carminative and condiment.
Dextrose	A refined, crystallized sugar obtained chiefly by the hydrolysis of starch or of starch-containing substance.
Fennel	The dried ripe fruit of <i>Foeniculum Vulgare</i> . Stimulant, carminative, galactagogue and condiment.
Fenugreek Seed	The dried fruit of <i>Trigonella Foenumgrascum</i> , Aromatic.
Gentian	The dried rhizome and roots of <i>gentiana luten</i> . Simple bitter.
Ginger	The dried rhimome of <i>Zingiber officianalle</i> . Condiment, carminative and stimulant.
Glucose	A syrup obtained by the incomplete hydrolysis of starch-containing substance.
Kelp	Any of the various large brown seaweeds of the families <i>Fucaceae</i> and <i>Laminariaceae</i> . Source of Iodine.
Kamala	The hair of the capsules of <i>mallotus philippinensis taenifuge</i> .
Lactose; Milk Sugar	A sugar obtained from cow's milk.
Locust Bean (Carobbean)	The fruit of <i>Robina psendacscia</i> . Nutrient.
Saccharin Sodium	Saccharin Sodium of a grade suitable for use in feed.

DIRECTIONS FOR SAMPLING COMMERCIAL FEEDING STUFFS

Insert a sharp, closed-end sampler horizontally into the package. Take cores from not less than 10% of the bags present unless this process necessitates cores from more than 20 bags, in which case take core from 1 bag for each additional ton represented. If less than 200 bags, sample not less than 20 bags; if less than 20 bags, sample all bags.

Thoroughly mix portions taken on clean oilcloth or paper, reduce by quartering to quantity of sample required and place in airtight container.

Resolution A. Whereas, many States which have adopted

the Association's definitions for cottonseed products require that a guaranty of crude fat and crude fibre content in cottonseed meal be made; therefore, for the sake of uniformity of labels and registrations, and in such cases where there is no conflict with existing feed laws, be it

Resolved that the following guarantees of crude fat and crude fibre be recommended for other than solvent extracted cottonseed meal:

	Crude Fat Not Less Than	Crude Fibre Not More Than
For 36% Protein Cottonseed Meal	3.00%	17.00%
For 41% Protein Cottonseed Meal	3.00%	14.00%
For 43% Protein Cottonseed Meal	3.00%	13.00%
(Adopted 1935.)	(Amended 1952.)	

Resolution B. Resolved that the following guarantees of crude fat and crude fibre be recommended for solvent extracted cottonseed meal:

	Crude Fat Not Less Than	Crude Fibre Not More Than
For 36% Protein Cottonseed Meal	0.50%	17.00%
For 41% Protein Cottonseed Meal	0.50%	14.00%
For 43% Protein Cottonseed Meal	0.50%	13.00%
(Adopted 1951.)	(Amended 1952.)	

OFFICIAL FEED STANDARDS OF ALABAMA

Under authority of Section 67 of the Commercial feed law, Article 8 of the Agricultural Code of Alabama, the State Board of Agriculture has established the following standards as the official feed standards of Alabama:

	Minimum Percentage Protein	Minimum Percentage Fat	Maximum Percentage Fiber
Dairy or Dairy Cow Feed (For Production only—does not apply to roughage feeds, dry cow feeds or fitting feeds)	16.00	2.50	15.00
Hog Feed (Complete ration) (does not apply to supplements)	14.00	2.50	8.00

	Minimum Percentage Protein	Minimum Percentage Fat	Maximum Percentage Fiber
Chick Scratch Feed	9.00	2.00	4.00
Poultry Intermediate Scratch Feed	9.00	2.00	4.50
Poultry Scratch Feed	8.00	2.00	7.00
Poultry Broiler Ration	17.00	3.50	8.00
Starting Mash			
Starting and Growing Mash	20.00	2.50	7.00
All Mash Starting Ration	17.00	2.50	7.00
All Mash Growing Ration	15.00	2.50	7.00
All Mash Starting and Growing Ration	15.00	2.50	7.00
Poultry All Mash Ration	18.00	2.50	8.00
Growing Mash	17.00	2.50	8.00
*Poultry All Mash Laying Ration	15.00	3.50	8.00
*Poultry Laying or Egg Mash (Does not apply to poultry supplement)	18.00	3.50	8.00
Turkey Starting Mash	22.00	2.50	8.00
Turkey Starting and Growing Mash	20.00	2.50	8.00
Poultry Fattening Mash	12.00	2.50	8.00
Turkey Growing Mash	17.00	4.00	8.00
36% Protein Cottonseed Meal, Prime Quality	36.00	4.00	16.00
41% Protein Cottonseed Meal, Prime Quality	41.00	4.00	13.00
43% Protein Cottonseed Meal, Prime Quality	43.00	5.20	13.00
41% Protein Peanut Oil Meal	41.00	5.00	16.00
45% Protein Peanut Oil Meal	45.00	4.00	14.00

*20 per cent of the total protein content of the mixture must be of animal origin.

	Minimum Percentage Protein	Minimum Percentage Fat	Maximum Percentage Fiber
Horse and Mule Feed	9.00	2.00	15.00
Wheat Bran	14.50	3.50	11.50
Wheat Standard Middlings	16.00	3.50	9.50
Wheat Flour Middlings	16.00	4.00	6.00
Wheat Brown Shorts	16.00	3.50	7.50
Wheat Gray Shorts	16.00	3.50	6.00
Wheat White Shorts	14.50	3.00	3.50
Wheat Red Dog	16.00	4.00	4.00
Wheat Mixed Feed	15.00	3.50	8.50
Cottonseed Feed	20.00	-----	-----
Mixed Feed (Any Kind)	9.00	2.00	15.00
Velvet Bean Meal	20.00	-----	-----
Ground Velvet Bean and Pod	16.00	-----	-----
Unhulled Peanut Oil Feed	30.00	-----	-----
Digester Tankage, Meat Meal Tankage or Feeding Tankage	50.00	3.00	3.00
Solvent Extracted Peanut Meal	45.00	1.00	14.00
Pullet Developer Ration	15.00	2.50	20.00
Hog Finishing Ration (weighing 150 lbs. or over)	13.00	3.50	5.00
Pig Ration	16.00	3.00	6.00
Growing Gilt Ration	15.00	2.50	10.00
Sow & Gilt Gestation Ration	14.00	2.50	10.00
Sow Lactation Ration	16.00	2.50	5.00

UNIFORM METHOD OF LABELING

The following general types illustrate approved forms of labels:

Type of label for Wheat Bran with Screenings and (brown grey, white) Shorts with Screenings:

100 LBS. NET	
WHEAT BRAN WITH SCREENINGS	
Manufactured by (or for)	
JOHN DOE FEED MILLS	
Doeville, Kansas	
<hr/> <hr/>	
GUARANTEED ANALYSIS	
Crude Protein, not less than.....	Per Cent
Crude Fat, not less than.....	Per Cent
Crude Fiber, not MORE than.....	Per Cent
<hr/> <hr/>	
<p>INGREDIENTS: Wheat bran and ground wheat screenings not exceeding mill run. Or (brown, grey, white) wheat shorts with ground wheat screenings.</p>	

Type of label for Wheat Bran and Standard Middlings:

100 LBS. NET	
(NAME OF PRODUCT)	
Manufactured by (or for)	
JOHN DOE FEED MILLS	
Doeville, Kansas	
<hr/> <hr/>	
GUARANTEED ANALYSIS	
Crude Protein, not less than.....	Per Cent
Crude Fat, not less than.....	Per Cent
Crude Fiber, not MORE than.....	Per Cent
<hr/> <hr/>	
<p>INGREDIENTS: (Same as name of Product).</p>	

Type of label for Mixed Feeds in General:

100 LBS. NET		
EXCELSIOR DAIRY FEED		
Manufactured by (or for)		
JOHN DOE FEED MILLS		
Doeville, Kansas		

GUARANTEED ANALYSIS		
Crude Protein, not less than	-----	Per Cent
Crude Fat, not less than	-----	Per Cent
Crude Fiber, not MORE than	-----	Per Cent

<p>INGREDIENTS: Corn gluten feed, cottonseed meal, wheat bran, wheat shorts, ground corn, alfalfa meal and oat meal mill by-products, (oat hulls, oat shorts, middlings).</p>		

Type of label for Cottonseed Meal:

100 LBS. NET		
41% PROTEIN COTTONSEED MEAL		
(Prime Quality)		
Manufactured by (or for)		
JOHN DOE FEED MILLS		
Doeville, Kansas		

GUARANTEED ANALYSIS		
Crude Protein, not less than	-----	Per Cent
Crude Fat, not less than	-----	Per Cent
Crude Fiber, not MORE than	-----	Per Cent

<p>INGREDIENTS: Cottonseed Meal.</p>		

Type of label for Cottonseed Feed:

100 LBS. NET		
COTTONSEED FEED		
Manufactured by (or for)		
JOHN DOE FEED MILLS		
Doeville, Kansas		

GUARANTEED ANALYSIS		
Crude Protein, not less than.....		Per Cent
Crude Fat, not less than.....		Per Cent
Crude Fiber, not MORE than.....		Per Cent

INGREDIENTS: Cottonseed Meal and Cottonseed Hulls.		

**TONNAGE OF FEED SOLD AND NUMBER OF BRANDS
REGISTERED FOR SALE**

Fiscal Year	Tonnage	No. Brands Registered
1918-19	201,520	1,553
1919-20	310,035	1,241
1920-21	221,345	1,082
1921-22	230,345	1,444
1922-23	309,455	1,708
1923-24	340,545	1,972
1924-25	441,024	1,941
1925-26	338,750	1,863
1926-27	330,924	1,935
1927-28	314,495	1,961
1928-29	336,750	2,179
1929-30	296,063	2,084
1930-31 to April	145,395	1,986
1931-April to Oct. 1932	360,277	1,868
1932-33	206,837	1,809
1933-34	242,540	1,900
1934-35	203,310	1,993
1935-36	282,842	2,269
1936-37	308,360	2,451
1937-38	322,465	2,503
1938-39	332,962	2,674

Fiscal Year	Tonnage	No. Brands Registered
1939-40	357,128	2,832
1940-41	387,262	2,080
1941-42	404,198	2,921
1942-43	679,872	3,003
1943-44	675,848	2,239
1944-45	706,070	2,423
1945-46	688,892	2,552
1946-47	652,278	3,234
1947-48	467,240	3,589
1948-49	531,456	3,488
1949-50	537,381	3,572
1950-51	538,708	3,577
1951-52	576,916	3,745
1952-53	616,666	3,761
1953-54	727,605	3,970
1954-55	772,410	4,285
1955-56	805,645.53	4,246
1956-57	879,771.49	4,467
1957-58	1,111,085.19	4,590

INSPECTION AND SAMPLING OF FEEDS

Analyses of Official Feed Samples

The regulatory control of commercial feeding stuffs requires the attention of inspectors at all times. Although the sale of these products is much larger at certain periods of the year, an appreciable amount is sold throughout the twelve months. While most of the samples are taken when shipments are largest, general inspection is carried on at all times and sufficient sampling is done to insure the consumers of receiving feeds that comply with the State requirements.

During the period Oct. 1, 1957, to Sept. 30, 1958, 2620 inspections were made of feed establishments and approximately 1461 samples of feeds and feeding material were analyzed in the State laboratories.

The results of analyses of official samples of feeding stuffs are given below. The samples which were found to be deficient in protein are designated by marks of identification which are explained in footnotes at the bottom of each page, also which contained excess crude fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Ala. Feed Mills									
Tuscaloosa, Ala.									
Bama Thrifty Hen Scratch Feed -----	9.00	3.00	4.00	65.00	166-E	8.90	3.55	2.71	68.61
Bama Cattle Range Pellets -----	20.00	3.00	12.00	44.00	66-M	20.92	5.44	10.41	38.51
16% Dairyman's Special -----	16.00	3.00	15.00	40.00	101-M	17.80	3.71	13.59	43.37
Sawmill Special -----	9.00	3.00	10.00	50.00	102-M	8.75	4.10	5.65	62.12
Ripsnorter Horse & Mule Feed -----	9.00	2.00	15.00	40.00	103-M	9.99	3.67	10.13	54.94
Red Hat Sow & Hog Supplement -----	35.00	2.00	8.00	25.00	5-M	36.83	3.12	6.58	30.62
Alabama Flour Mills									
Decatur, Alabama									
Red Hat 18% Cow Feed -----	18.00	3.00	10.00	48.00	5-T	18.89	4.41	7.95	47.71
Pride of Dixie Horse & Mule Feed -----	9.00	2.50	15.00	50.00	216-W	10.30	3.88	11.92	54.71
Pride of Dixie 40% Hog Supplement -----	40.00	2.00	8.00	20.00	90-H	39.30	2.24	7.48	28.37
Pride of Dixie 40% Hog Supplement Pellets -----	40.00	2.00	8.00	20.00	51-H	41.11	2.65	6.75	26.30
Pride of Dixie 40% Hog Supplement -----	40.00	2.00	8.00	20.00	25-M	40.13	2.47	7.54	25.61
Red Hat 40% Hog Supplement -----	40.00	2.00	6.00	25.00	24-M	39.91	2.96	4.96	28.15
*Red Hat Sow & Hog Supplement -----	35.00	2.00	8.00	25.00	215-W	33.34	3.83	6.72	33.32

* Deficient 1% or more in Crude Protein

Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED —FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Pride of Dixie 40% Hog Supplement -----	40.00	2.00	8.00	20.00	62-M	40.00	4.21	6.50	25.19
Pride of Dixie 40% Hog Supplement -----	40.00	2.00	8.00	20.00	7-M	40.21	2.92	8.27	26.69
Pride of Dixie 40% Hog Supplement -----	40.00	2.00	8.00	20.00	95-E	40.26	2.87	7.21	25.36
Pride of Dixie 16% Dairy Feed -----	16.00	2.50	15.00	40.00	264-W	18.59	3.55	7.13	50.14
Pride of Dixie 16% Dairy Feed -----	16.00	2.50	15.00	40.00	71-R	18.26	4.21	8.36	47.85
Red Hat Sow & Hog Pellets Supplement -----	35.00	2.00	8.00	25.00	257-W	35.61	3.67	6.95	30.25
Red Hat Sow & Hog Supplement -----	35.00	2.00	8.00	25.00	181-W	35.17	3.14	6.72	29.27
Red Hat Sow & Hog Supplement -----	35.00	2.00	8.00	25.00	60-W	35.89	3.05	6.05	28.63
Red Hat Sow & Hog Supplement Pellets -----	35.00	2.00	8.00	25.00	91-H	34.94	3.46	6.86	29.24
Red Hat Sow & Hog Supplement -----	35.00	2.00	8.00	25.00	61-M	36.21	3.34	6.26	29.48
Red Hat Sow & Hog Supplement -----	35.00	2.00	8.00	25.00	23-M	35.26	4.32	6.82	29.83
Red Hat Sow & Hog Supplement -----	35.00	2.00	8.00	25.00	94-E	35.00	3.35	6.09	28.35
Red Hat Horse & Mule Feed -----	9.00	3.00	10.00	57.00	242-W	9.37	3.92	5.79	62.49
Red Hat Horse & Mule Feed -----	9.00	3.00	10.00	57.00	32-T	9.21	3.67	5.93	61.55
Red Hat Horse & Mule Feed -----	9.00	3.00	10.00	57.00	89-H	9.52	3.90	6.41	61.96
Red Hat Horse & Mule Feed -----	9.00	3.00	10.00	57.00	65-M	9.06	4.10	6.02	60.85
Red Hat Horse & Mule Feed -----	9.00	3.00	10.00	57.00	175-E	11.23	4.04	5.37	59.98
Red Hat 40% Hog Supplement -----	40.00	2.00	6.00	25.00	247-W	41.20	2.34	6.05	25.52
Red Hat 40% Hog Supplement -----	40.00	2.00	6.00	25.00	55-W	39.65	2.88	4.71	28.35
*Red Hat 40% Hog Supplement -----	40.00	2.00	6.00	25.00	7-T	38.66	2.30	4.26	29.81
Red Hat 40% Hog Supplement -----	40.00	2.00	6.00	25.00	6-T	39.23	2.30	4.16	28.01
Red Hat 40% Hog Supplement -----	40.00	2.00	6.00	25.00	63-M	39.65	3.02	4.72	29.46

COMMERCIAL FEEDING STUFFS

Red Hat 40% Hog Supplement	40.00	2.00	6.00	25.00	3-M	40.57	2.24	5.46	29.80
Red Hat 40% Hog Supplement	40.00	2.00	6.00	25.00	91-E	39.61	2.23	5.00	28.92
*Red Hat 40% Hog Supplement	40.00	2.00	6.00	25.00	179-E	38.32	2.88	5.28	29.69
Red Hat 17% Dairy Special	17.00	3.00	10.00	49.00	240-W	17.03	4.16	7.80	50.01
Red Hat 17% Dairy Special	17.00	3.00	10.00	49.00	178-W	17.47	4.20	7.89	50.32
Red Hat 17% Dairy Special	17.00	3.00	10.00	49.00	187-W	17.23	4.25	7.58	51.80
Red Hat 17% Dairy Special	17.00	3.00	10.00	49.00	217-W	17.49	4.23	7.67	50.74
Red Hat 17% Dairy Special	17.00	3.00	10.00	49.00	26-M	17.76	4.27	7.50	51.76
Red Hat 17% Dairy Special	17.00	3.00	10.00	49.00	68-M	19.05	3.84	7.40	51.28
Red Hat 17% Dairy Special	17.00	3.00	10.00	49.00	142-D	17.02	4.21	7.97	51.58
17% Dairy Special	17.00	3.00	10.00	49.00	3-D	17.96	4.37	7.58	51.66
17% Dairy Special	17.00	3.00	10.00	49.00	174-E	16.86	4.58	7.78	51.99
Red Hat 17% Dairy Special	42.00	1.00	10.00	25.00	176-E	42.39	6.46	8.09	19.29
Red Hat 42% Dairy Concentrate	18.00	3.00	7.50	50.00	50-H	18.56	4.33	6.50	53.75
Red Hat Sow Ration	18.00	3.00	7.50	50.00	22-M	18.43	4.41	5.96	54.77
Red Hat Sow Ration	18.00	3.00	7.50	50.00	92-E	18.12	4.46	6.11	53.80
Red Hat Sow Ration	14.00	3.50	5.00	57.00	93-E	14.36	4.64	4.31	59.61
Red Hat Hog Ration	17.50	3.50	5.00	50.00	150-D	17.50	3.99	3.92	56.34
Cage Laying Ration Pellets	20.00	3.50	7.00	46.00	50-W	20.00	3.69	5.18	50.51
Red Hat Laying Pellets	20.00	3.50	7.00	47.00	176-R	20.25	3.55	5.03	50.31
Red Hat Laying Mash	20.00	3.50	7.00	47.00	107-R	20.30	3.79	5.45	49.48
Red Hat Laying Mash	38.00	1.50	8.00	20.00	201-S	37.44	2.66	5.82	25.47
Red Hat 38% Poultry Supplement	16.00	3.50	6.50	50.00	245-W	16.24	3.66	4.31	56.24
Red Hat Laying Ration	17.50	3.50	5.00	50.00	180-W	16.86	3.65	3.64	53.93
Red Hat Laying Ration (Crumbles)	20.00	3.50	7.00	47.00	256-W	20.29	3.66	5.35	51.38
Red Hat Laying Mash	20.00	3.50	7.00	47.00	179-W	20.00	3.81	5.20	49.65
Red Hat Laying Ration	16.00	3.50	6.50	50.00	177-W	17.33	3.76	4.57	52.85
Red Hat Laying Ration	16.00	3.50	6.50	50.00	54-W	16.09	3.62	4.26	56.00
Red Hat Laying Ration	17.50	3.50	5.00	50.00	185-W	16.87	3.52	3.71	54.44
Red Hat Cage Laying Ration	16.00	3.50	6.50	50.00	218-W	16.22	3.87	4.35	56.06
Red Hat Laying Ration	17.50	3.50	5.00	50.00	34-T	17.95	3.59	3.74	56.13
Red Hat Laying Ration	16.00	3.50	6.50	50.00	2-R	16.25	3.75	5.11	55.68

* Deficient 1% or more in Crude Protein

Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED —FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Red Hat Cage Laying Ration -----	17.50	3.50	5.00	50.00	3-R	17.03	3.55	4.04	56.30
Red Hat Laying Ration -----	16.00	3.50	6.50	50.00	64-M	16.09	3.78	4.69	54.97
Red Hat Laying Ration -----	16.00	3.50	6.50	50.00	20-M	16.09	3.56	4.85	56.17
Red Hat Laying Ration -----	16.00	3.50	6.50	50.00	177-E	16.37	3.87	4.51	54.52
Red Hat Laying Crumbles -----	20.00	3.50	7.00	47.00	244-W	20.28	3.60	5.02	51.55
Red Hat Laying Crumbles -----	20.00	3.50	7.00	47.00	176-W	20.60	3.52	5.18	50.21
Red Hat Laying Crum -----	20.00	3.50	7.00	47.00	4-M	20.91	3.52	5.72	52.53
Red Hat Calf Feed -----	20.00	2.50	8.00	44.00	213-W	20.24	4.03	5.82	51.36
Red Hat Calf Feed -----	20.00	2.50	8.00	44.00	56-W	21.18	4.27	6.62	48.85
Red Hat Pig Starter -----	18.00	3.00	5.50	50.00	52-W	18.09	4.82	4.25	54.83
Red Hat Pig Starter (Pellets) -----	18.00	3.00	5.00	50.00	186-W	18.71	3.64	5.01	54.55
Red Hat Pig Starter -----	18.00	3.00	5.50	50.00	70-M	19.37	6.31	4.48	52.79
Red Hat Pig Starter -----	18.00	3.00	5.50	50.00	21-M	18.74	4.41	4.56	56.38
Red Hat Pig Starter -----	18.00	3.00	5.50	50.00	6-M	19.37	4.71	4.66	56.38
Red Hat Pig Starter -----	18.00	3.00	5.50	50.00	96-E	18.11	4.44	4.35	55.90
Red Hat 32% Dairy Supplement -----	32.00	2.50	12.00	32.00	212-W	32.38	3.26	7.61	34.77
Red Hat 32% Dairy Supplement -----	32.00	2.50	12.00	32.00	98-E	33.05	3.23	7.47	35.86
Red Hat Hog Ration -----	14.00	3.50	5.00	57.00	214-W	14.35	4.76	4.07	59.29
Red Hat Hog Ration -----	14.00	3.50	5.00	57.00	243-W	15.00	4.50	4.58	58.74
Red Hat Hog Ration -----	14.00	3.50	5.00	57.00	59-W	14.05	4.35	4.37	59.21
Red Hat Rover Dog Food -----	25.00	4.00	3.00	47.00	220-W	28.36	4.73	3.30	42.25
Rover Dog Food -----	25.00	4.00	3.00	47.00	57-W	25.84	4.23	3.06	46.41

Red Hat 18% Cow Feed -----	18.00	3.00	10.00	48.00	33-T	18.09	4.22	7.84	49.71
Red Hat Rabbit Pellets -----	16.00	3.00	14.00	47.00	31-T	17.80	4.56	9.50	50.89
Red Hat Cage Laying Ration -----	17.50	3.50	5.00	50.00	8-T	17.62	3.52	3.41	55.26
Red Hat Starting Crumbles -----	20.00	3.50	7.00	47.00	219-W	19.65	3.51	4.71	53.58
Red Hat Fitting Feed -----	14.00	3.00	8.50	52.00	183-W	14.98	4.40	6.38	54.25
Red Hat Starting Mash -----	20.00	3.50	7.00	47.00	61-W	20.25	4.29	4.85	51.27
Red Hat Growing Ration -----	15.00	3.50	6.00	55.00	58-W	16.86	4.24	4.78	56.87
Red Hat Growing Crumbles -----	18.00	3.50	7.00	49.00	53-W	18.43	3.71	4.86	54.26
Red Hat Hen Scratch -----	9.00	2.50	3.50	68.00	51-W	9.51	2.80	2.02	70.89
Red Hat 20% Cow Feed -----	20.00	3.00	10.00	47.00	266-W	20.60	3.37	7.45	51.88
Red Hat Growing Crumbles -----	18.00	3.50	7.00	49.00	97-E	18.59	3.84	5.04	53.85
Red Hat Growing Crumbles -----	18.00	3.50	7.00	49.00	248-W	18.27	4.03	5.90	52.95
Red Hat Starting Mash AD—Medicated -----	21.00	3.50	5.00	45.00	255-W	22.16	4.43	4.05	51.77
*Red Hat 42% Dairy Concentrate -----	42.00	1.00	10.00	25.00	182-W	40.82	4.76	8.35	21.13
Red Hat Growing Ration -----	15.00	3.50	6.00	55.00	246-W	15.61	4.31	4.48	58.71
Red Hat Medicated Treeties -----	20.00	3.50	5.00	47.00	178-E	19.33	3.79	3.94	54.12
Red Hat Starting Mash—Medicated -----	20.00	3.50	7.00	47.00	170-E	20.00	3.62	4.82	51.24
Red Hat High Energy Broiler Starter-Med. -----	23.00	5.50	3.00	50.00	169-E	23.05	6.03	2.49	50.34
Red Hat Calf Feed -----	20.00	2.50	8.00	44.00	67-M	20.57	4.05	6.69	50.44
Red Hat Hi-Energy Broiler Starter GD-Med. -----	23.00	5.50	3.00	50.00	98-T	23.70	6.13	2.51	51.40
Red Hat Hi-Energy Broiler Finisher GD-Med. -----	20.00	5.50	3.00	50.00	97-T	20.90	5.96	2.34	54.15
Red Hat Laying Mash -----	20.00	3.50	7.00	45.00	9-T	20.26	4.43	5.09	49.22
The Alabama Oil & Guano Co.									
Opelika, Alabama									
Algoeco 36% Protein Cottonseed Meal, P.Q. -----	36.00	4.00	16.00	25.00	1-W	38.08	6.05	14.24	28.91
Alaga Feed Cooperatives, Inc.									
Columbus, Georgia									
Alfalfa Meal & Molasses -----	11.00	1.00	25.00	35.00	250-W	11.09	4.06	23.38	38.07

* Deficient 1% or more in Crude Protein

Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
*Alfalfa Meal & Molasses -----	11.00	1.00	25.00	35.00	238-W	9.69	3.41	24.52	43.01
Alaga Dry & Freshening Feed -----	12.50	3.00	12.00	48.00	237-W	12.50	4.31	9.12	54.05
Alaga Economy 16% Dairy Feed -----	16.00	2.50	15.00	45.00	239-W	17.96	3.19	10.65	50.36
Alfalfa Producers Cooperative, Inc. Belle Mina, Alabama									
Tenn. Valley Dehydrated Alfalfa Meal 17% -----	17.00	1.50	27.00	35.00	51-T	18.26	4.51	23.73	36.41
Tenn. Valley Dehydrated Alfalfa Meal 17% -----	17.00	1.50	27.00	35.00	50-T	17.18	4.39	24.37	37.18
E. T. Allen Co. Atlanta, Georgia									
36% Protein Solvent Extracted C/S Meal -----	36.00	1.00	16.00	25.00	273-W	37.43	2.12	12.16	31.91
Allen Gin & Milling Co. LaFayette, Alabama									
ABC Super Mix Broiler Finisher -----	18.00	4.00	4.00	46.00	8-W	21.06	6.45	2.81	51.50
ABC Super Mix Broiler Mash -----	22.00	4.00	4.00	46.00	7-W	23.72	5.18	2.68	50.77

Allied Mills, Inc.
Chicago, Illinois

Arab Horse Feed -----	9.00	2.50	12.00	50.00	36-M	9.21	3.31	5.11	67.50
Arab Horse Feed -----	9.00	2.50	12.00	50.00	92-W	9.68	3.76	5.09	65.31
Wayne Scratch Feed -----	9.00	2.00	5.00	65.00	169-W	9.83	2.01	3.38	70.56
Wayne Universal Breeder -----	18.00	4.00	4.00	53.00	251-E	18.74	4.43	4.11	50.52
Wayne Universal Egg -----	18.00	4.00	4.00	53.00	21-T	17.79	4.14	3.19	54.59
Wayne Universal Grower -----	16.00	3.50	4.50	50.00	147-D	16.85	4.17	3.66	57.45
Wayne Universal Grower -----	16.00	3.50	4.50	50.00	236-W	15.45	4.40	4.11	54.78
Wayne Hog Supplement -----	40.00	3.50	6.00	15.00	135-E	39.34	3.15	4.45	26.20
Wayne Hog Supplement Pellets -----	40.00	1.50	6.00	15.00	23-T	40.00	1.87	5.19	27.45
Wayne Hog Balancer -----	35.00	1.50	8.00	20.00	47-H	35.26	2.13	7.15	29.85
Wayne Hog Supplement -----	40.00	1.50	6.00	15.00	56-E	40.00	3.22	6.06	26.25
Wayne Pig & Sow Meal (Pellets) -----	20.00	3.00	6.00	45.00	58-E	21.50	4.08	5.52	49.97
Wayne Pig & Sow Meal -----	20.00	3.00	6.00	45.00	133-E	20.54	3.75	5.00	50.19
Wayne Pig & Sow Meal -----	20.00	3.00	6.00	45.00	95-W	24.02	3.06	6.05	47.70
Wayne 18% Dairy Feed -----	18.00	3.00	9.00	45.00	13-D	20.60	3.61	8.44	45.07
Wayne 18% Dairy Feed -----	18.00	3.00	9.00	45.00	168-D	19.96	3.54	8.40	47.28
Wayne 18% Dairy Feed -----	18.00	3.00	9.00	45.00	174-W	19.50	4.15	8.97	45.97
Wayne 24% Dairy "E" -----	24.00	2.50	11.00	40.00	198-S	24.49	4.78	10.56	38.18
*Wayne Egg Krums -----	22.00	4.00	4.50	45.00	24-T	19.35	4.01	3.71	49.66
Wayne Egg Producer -----	20.00	3.00	7.00	45.00	169-R	21.19	3.54	6.05	49.25
Wayne Egg Producer -----	20.00	3.00	7.00	45.00	62-D	21.23	3.53	6.19	50.19
Wayne Universal Egg -----	18.00	4.00	4.00	53.00	69-D	18.11	4.61	3.96	55.12
Wayne All Mash Egg -----	16.00	2.50	8.00	50.00	52-E	15.62	3.48	3.12	59.23
Wayne Egg -----	22.00	4.00	4.50	45.00	51-E	22.03	4.56	4.51	49.71
Wayne Universal Egg -----	18.00	4.00	4.00	53.00	254-E	18.10	4.90	3.60	52.77
Wayne Universal Egg -----	18.00	4.00	4.00	53.00	12-W	18.00	4.02	3.37	55.96
Wayne Egg Producer -----	20.00	3.00	7.00	45.00	131-E	19.33	3.18	5.74	52.19
Wayne Egg -----	22.00	4.00	4.50	45.00	13-W	21.22	4.35	4.42	51.03
Wayne Egg -----	22.00	4.00	4.50	45.00	197-S	23.11	3.91	4.16	50.61

* Deficient 1% or more in Crude Protein

Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Wayne Fitting Ration -----	13.00	3.00	8.50	50.00	167-D	14.83	4.31	6.88	54.82
Wayne Fitting Ration -----	13.00	3.00	8.50	50.00	67-D	16.40	1.07	7.74	47.42
Wayne Fitting Ration -----	13.00	3.00	8.50	50.00	164-W	14.20	3.65	6.79	54.73
Wayne Fitting Ration -----	13.00	3.00	8.50	50.00	101-W	15.61	4.60	6.39	53.04
Wayne 18% Dairy -----	18.00	3.00	9.00	45.00	102-W	19.51	4.48	8.06	45.72
Wayne 42% Dairy Mix Supplement -----	42.00	1.00	11.00	20.00	103-W	44.26	7.01	9.25	15.43
Wayne Universal Egg All Mash -----	18.00	4.00	4.00	53.00	104-W	18.12	4.46	3.26	54.92
Wayne Broiler Feed -----	20.00	3.00	4.00	50.00	105-W	20.00	3.67	3.81	54.05
Wayne Medicated H-A-D -----	20.00	5.00	4.00	50.00	106-W	21.21	5.23	3.21	53.91
Wayne Scratch Feed -----	9.00	2.00	5.00	65.00	108-W	9.53	2.62	1.85	71.46
Wayne All Mash Egg -----	16.00	2.50	8.00	50.00	109-W	15.60	3.63	3.37	60.38
Wayne Pork Maker -----	14.00	3.00	8.00	50.00	99-W	15.30	3.32	6.39	57.28
Wayne Milk Producer -----	16.00	2.50	13.00	40.00	144-D	17.65	4.18	9.93	46.07
Wayne Fitting Ration -----	13.00	3.00	8.50	50.00	28-D	14.53	4.12	7.28	53.11
Wayne 42% Dairy Mixing Supplement "S" -----	42.00	1.00	11.00	20.00	16-D	44.59	6.61	9.21	16.66
Wayne Milk Producer -----	16.00	2.50	11.00	40.00	83-D	17.66	4.57	8.39	46.08
Wayne Tail Curler, Jr. -----	18.00	3.00	3.00	52.00	53-E	18.90	4.67	2.86	56.33
Wayne Cage Layer "S" -----	18.00	3.00	6.00	50.00	54-E	18.00	3.91	4.23	53.33
Wayne Hog Balancer -----	35.00	1.50	8.00	20.00	55-E	34.64	2.65	6.36	29.69
Wayne Cage Layer "S" -----	18.00	3.00	6.00	50.00	145-D	19.53	3.56	5.53	52.81
Wayne Chick Starter (132) Medicated -----	20.00	4.00	5.50	50.00	68-D	21.18	4.40	4.77	49.74
Wayne Tail Curler -----	16.00	3.00	5.00	45.00	32-M	17.19	3.99	3.18	58.68

COMMERCIAL FEEDING STUFFS

Wayne Hog Balancer	35.00	1.50	8.00	20.00	33-M	35.59	2.42	7.14	28.49
Wayne Pig Balancer	38.00	1.50	8.00	20.00	34-M	38.70	2.28	6.26	29.17
Wayne Calf Starter "A"	16.00	3.00	7.50	48.00	35-M	15.29	3.69	5.42	60.32
Wayne Tail Curler—Medicated	16.00	3.00	5.00	45.00	48-H	17.01	4.14	3.53	56.84
Wayne Cage Layer "S"	18.00	3.00	6.00	50.00	22-T	18.26	3.20	4.62	53.95
Wayne Pork Maker	14.00	3.00	8.00	50.00	57-E	18.04	4.02	6.41	51.69
Wayne Poultry Mixer	36.00	4.00	6.50	23.00	250-E	36.20	4.22	6.50	28.68
Wayne Poultry Worming Mixture	20.00	3.00	5.00	50.00	172-W	20.24	3.15	3.55	53.91
Wayne Calf Starter "A"	16.00	3.00	7.50	48.00	165-W	15.78	3.54	4.93	56.25
Wayne Medicated H-A-D (172)	20.00	5.00	4.00	50.00	167-W	22.45	4.14	3.25	50.01
Wayne Hog Balancer	35.00	0.50	8.00	20.00	168-W	36.15	2.45	6.04	28.24
Wayne Grower	20.00	3.50	6.50	48.00	170-W	19.36	3.57	5.22	51.32
Wayne Pork Maker	14.00	3.00	8.00	50.00	234-W	13.27	3.18	6.94	58.18
*Wayne Turkey Grower	22.00	3.50	5.00	45.00	166-W	17.77	3.86	4.15	45.21
Wayne All Mash Egg	16.00	2.50	8.00	50.00	235-W	16.39	2.87	5.39	56.53
Wayne Hog Balancer	35.00	1.50	8.00	20.00	233-W	36.21	2.03	6.94	27.04
Wayne Scratch Feed	9.00	2.00	5.00	65.00	232-W	9.36	2.21	1.70	72.69
Wayne Cotton Belt Dairy	13.00	3.00	8.50	50.00	230-W	15.13	4.02	6.85	54.43
Wayne Rocket Broiler Finisher (196) Med.	20.00	5.00	2.50	55.00	139-D	20.57	5.21	2.48	54.81
Wayne Rocket Broiler Starter (186) Med.	21.00	5.00	2.50	52.00	133-D	22.74	5.07	2.42	52.22
Wayne Rocket Broiler Starter (186) Med.	23.00	5.00	2.50	52.00	119-D	23.38	5.12	2.27	51.17
Wayne Rocket Broiler Starter (186) Med.	23.00	3.00	2.50	52.00	129-D	26.68	3.34	2.33	49.32
Wayne Rocket Broiler Finisher (196) Med.	20.00	5.00	2.50	55.00	140-D	20.90	5.09	2.44	54.12
Wayne Rocket Broiler Finisher (196A) Med.	19.00	5.00	2.50	55.00	134-E	20.26	5.20	2.26	55.32
Wayne Rocket Broiler Starter (186) Med.	23.00	5.00	2.50	52.00	253-E	22.47	5.24	2.40	51.89
Wayne Rocket Broiler Starter (186A) Med.	23.00	5.00	2.50	52.00	107-W	24.31	5.84	2.42	50.45
Wayne Rocket Broiler Starter—Med.	23.00	5.00	2.50	52.00	14-W	24.33	5.01	2.47	50.97
Wayne Rocket Broiler Mixer—Med.	44.00	6.50	2.50	25.00	249-W	43.61	7.80	2.79	22.06
Wayne Rocket Broiler Finisher—Med.	20.00	5.00	2.50	55.00	252-E	20.29	5.15	2.40	54.94
Wayne Broiler Feed—Med.	20.00	3.00	4.00	50.00	231-W	21.82	3.50	3.13	55.22
Wayne Starter & Grower—Med.	18.00	2.50	6.00	48.00	249-E	18.44	2.64	3.72	48.34

* Deficient 1% or more in Crude Protein

Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Allied Mills, Inc. Guntersville, Alabama									
Cotton Belt Dairy -----	16.00	3.00	10.00	45.00	94-W	18.74	4.13	5.98	50.41
Wayne Calf Starter "A" -----	16.00	3.00	7.50	48.00	129-W	15.46	3.81	5.32	57.56
Wayne Calf Starter "A" -----	16.00	3.00	7.50	45.00	104-E	16.38	4.00	5.55	56.41
Wayne Pig Balancer -----	38.00	1.50	8.00	20.00	98-W	39.01	1.96	6.27	28.73
Wayne Pig Balancer -----	38.00	1.50	8.00	20.00	161-W	38.00	2.22	5.99	26.97
Wayne Hog Balancer -----	35.00	1.50	8.00	20.00	160-W	35.00	2.86	6.71	31.05
Wayne Hog Balancer -----	35.00	1.50	8.00	20.00	130-W	35.00	2.34	6.84	30.29
Wayne Hog Balancer -----	35.00	1.50	8.00	20.00	96-W	35.21	2.35	6.96	29.51
Wayne Hog Balancer -----	35.00	1.50	8.00	20.00	99-E	34.61	2.63	6.91	29.84
Wayne Tail Curler -----	16.00	3.00	5.00	45.00	46-W	16.86	3.96	3.46	58.19
Wayne Tail Curler -----	16.00	3.00	5.00	45.00	97-W	16.71	3.96	3.20	59.92
Wayne Tail Curler -----	16.00	3.00	5.00	45.00	101-E	17.34	4.29	3.28	57.60
Wayne Tail Curler -----	16.00	3.00	5.00	45.00	136-E	17.64	4.05	3.33	57.34
Wayne Pork Maker -----	14.00	3.00	8.00	50.00	44-W	16.86	3.04	7.72	54.13
Wayne 18% Dairy -----	18.00	3.00	9.00	49.00	49-W	19.52	4.33	8.81	45.52
Wayne 18% Dairy -----	18.00	3.00	9.00	45.00	133-W	21.53	3.25	8.38	43.96
Wayne 18% Dairy -----	18.00	3.00	9.00	45.00	139-E	20.77	3.97	8.43	43.48
Wayne 18% Dairy -----	18.00	3.00	9.00	45.00	107-E	20.16	4.26	8.30	45.20
Wayne 16% Dairy -----	16.00	3.00	9.00	50.00	132-W	17.64	3.74	7.37	51.08

#Wayne Hog Supplement -----	40.00	1.50	6.00	15.00	105-E	39.34	2.85	7.37	25.74
Wayne Milk Producer -----	16.00	2.50	13.00	40.00	131-W	17.02	4.06	9.40	44.50
Wayne Milk Producer -----	16.00	2.50	13.00	40.00	138-E	16.24	3.86	11.76	42.76
Wayne Medicated H-A-D -----	20.00	5.00	4.00	50.00	42-W	20.26	5.50	3.34	52.24
Wayne Pig & Sow Meal -----	20.00	3.00	6.00	45.00	158-W	20.27	3.82	5.62	50.81
Wayne Pig & Sow Meal -----	20.00	3.00	6.00	45.00	103-E	19.97	4.82	5.48	50.82
Wayne Fitting Ration -----	13.00	3.00	8.50	50.00	163-W	14.82	4.12	7.07	53.47
Wayne Milk Producer -----	16.00	2.50	13.00	40.00	162-W	16.53	3.52	10.32	45.03
Wayne Cage Layer "S" -----	18.00	3.00	6.00	50.00	40-W	17.96	3.12	4.72	53.97
Wayne Cage Layer "S" -----	18.00	3.00	6.00	50.00	108-E	18.12	6.25	5.26	50.44
Wayne All Mash Egg -----	16.00	2.50	8.00	50.00	132-E	15.46	3.32	2.97	59.00
Egg Producer "E" -----	20.00	4.00	7.00	45.00	108-T	20.57	3.70	4.00	53.62
Wayne Universal Egg -----	18.00	4.00	4.00	53.00	159-W	17.48	4.31	3.70	57.00
Wayne Universal Egg -----	18.00	4.00	4.00	63.00	128-W	18.71	4.35	3.13	54.92
Wayne Universal Egg -----	18.00	4.00	4.00	53.00	100-E	18.43	4.44	3.54	55.13
Wayne Universal Grower -----	16.00	3.50	4.50	50.00	43-W	16.40	3.55	3.62	57.70
Wayne Universal Grower -----	16.00	3.50	4.50	50.00	102-E	16.09	3.96	3.40	58.02
Wayne Pork Maker -----	14.00	3.00	8.00	50.00	106-E	16.08	3.59	5.96	55.58
Broiler Starter -----	23.00	3.00	2.50	52.00	118-T	23.07	4.81	2.42	53.85
Wayne Broiler Finisher—Medicated -----	20.00	5.00	2.50	55.00	107-T	21.48	5.37	2.18	53.52
Wayne Rocket Broiler Starter—Medicated -----	20.00	4.00	7.00	45.00	106-T	21.78	4.82	2.29	52.90
*Wayne Rocket Broiler Starter—Medicated -----	23.00	5.00	2.50	52.00	140-E	21.20	5.35	2.28	52.24
Wayne All Mash Egg -----	16.00	2.50	8.00	50.00	41-W	16.87	2.76	5.72	55.94

Allied Rendering Co., Inc.
Greensboro, Alabama

Meat & Bone Meal -----	50.00	7.00	3.00	2.00	259-W	53.94	14.18	2.46	3.25
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* Deficient 1% or more in Crude Protein
Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED —FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Amory Cotton Oil Co., Inc. Amory, Mississippi									
Amco Brand 41% Cottonseed Meal, P.Q. -----	41.00	3.00	13.00	25.00	32-R	42.07	3.32	12.32	30.34
Amco Brand 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	13.00	25.00	121-S	43.92	6.05	13.82	24.25
Amco Brand 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	13.00	25.00	267-W	40.51	4.73	13.14	28.57
Andalusia Gin Co., Inc. Andalusia, Alabama									
Ground Peanut Vine Hay & Molasses -----	7.50	3.00	35.00	40.00	20-H	9.84	3.28	28.36	34.75
Ground Whole Ear Corn -----	7.50	2.50	12.00	60.00	21-H	6.88	3.58	9.25	66.38
Ariton Milling Co. Ariton, Alabama									
Chopped Corn -----	7.00	3.00	12.00	50.00	87-H	7.03	3.15	10.07	67.28
#Ground Peanut Vine Hay & Molasses -----	8.00	3.00	30.00	45.00	88-H	10.30	3.36	32.94	25.09
Atlanta Tallow Co., Inc. Atlanta, Georgia									

Meat Scraps -----	45.00	8.00	2.00		248-E	44.25	10.76	1.77	0.31
Aubrey Feed Mills Louisville, Kentucky									
Aubrey Red A Finisher -----	19.50	4.00	3.00	53.00	105-T	19.93	4.84	2.36	54.79
Aubrey Red A Starter -----	22.50	4.00	3.00	50.00	104-T	23.39	4.79	2.29	51.17
Baldwin Oil Mills, Inc. Foley, Alabama									
Baldwin 44% Protein Solvent S/B Oil Meal -----	44.00	5.00	7.00	29.00	2-H	48.73	2.94	6.06	25.34
Birdsey Flour & Feed Mills Macon, Georgia									
Birdsey's Pig & Sow Meal -----	18.00	3.00	5.00	48.00	52-M	20.44	4.13	4.25	53.41
Birdsey's 40% Hog Supplement -----	40.00	2.50	7.00	27.00	53-M	39.68	3.61	6.62	24.40
Mascot Wheat Feed & Mill Run Screenings -----	14.50	3.00	8.00	55.00	51-M	16.25	3.51	5.55	58.92
Birdsey's Mascot Dog Food -----	25.00	4.00	4.50	45.00	45-W	24.64	5.36	2.65	48.67
Birdsey's Poultry Flock Booster -----	19.00	3.50	4.00	51.00	47-W	21.24	4.42	3.35	51.89
Money Saver Hog Ration -----	15.00	2.50	8.00	48.00	39-W	16.24	3.45	5.14	57.04
Birdsey's Complete Laying Ration -----	16.50	3.00	5.00	49.00	38-W	17.65	4.57	3.45	53.59
Brantley Gin Company Brantley, Alabama									
#Ground Peanut Vine Hay-Molasses -----	7.50	3.00	33.00	36.00	65-D	8.12	4.57	40.17	27.72
Brooks Milling Company Samson, Alabama									

Excess 1% or more in Crude Fiber.

* Deficient 1% or more in Crude Protein.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
#Snap Corn & Peanut Vine Hay with Blackstrap -----	9.00	2.50	15.00	54.00	25-H	9.05	3.70	16.66	50.92
Ground Peanut Vine Hay with Cane Molasses -----	8.00	3.00	30.00	40.00	27-H	8.89	3.12	24.36	39.20
B. B. 20% Laying Mash (High Calorie) -----	20.00	3.00	6.50	48.00	26-H	21.18	6.50	4.89	48.62
B. B. Pig & Sow Ration -----	17.00	3.00	8.00	52.00	24-H	17.01	3.89	5.99	55.77
Brundidge Milling Company									
Brundidge, Alabama									
Bob's 40% Hog Supplement Pellets -----	40.00	4.00	10.00	20.00	36-H	39.57	3.01	6.80	20.53
Bob's Blue Ribbon Laying Mash -----	20.00	3.50	8.00	40.00	37-H	20.00	5.37	5.05	47.12
Bob's Blue Ribbon 20% Dairy Feed -----	20.00	2.00	12.00	46.00	59-M	20.28	3.20	7.90	46.55
Bob's B Square 40% Hog Supplement -----	40.00	4.00	10.00	20.00	58-M	41.14	5.15	6.66	22.05
Bob's Blue Ribbon Pig Starter -----	18.00	3.00	5.00	50.00	57-M	18.74	6.44	3.09	53.37
Bob's Blue Ribbon Hog Fattener -----	16.00	3.00	6.00	46.00	56-M	18.73	4.69	5.48	48.49
Bob's Blue Ribbon Sow & Pig Ration -----	20.00	3.00	6.00	50.00	55-M	21.83	5.45	6.07	46.47
Bob's Blue Ribbon Range Pellets -----	20.00	2.50	12.00	44.00	81-M	21.24	5.18	7.82	43.82
Brundidge Peanut Co.									
Brundidge, Alabama									
Ground Whole Ear Corn -----	7.50	3.00	10.00	60.00	75-M	7.74	3.83	7.35	65.88

The Buckeye Cotton Oil Div. of
The Buckeye Cellulose Corp.
Cincinnati, Ohio

Buckeye 44% Protein Solvent Ext. S.B. Oil M. -----	44.00	.50	7.00	27.00	94-S	44.84	3.03	5.81	29.95
Buckeye 41% Solvent Ext. C/S Meal -----	41.00	2.00	14.00	27.00	35-R	41.72	3.73	12.17	28.40
Buckeye 41% Solvent Ext. C/S Meal -----	41.00	2.00	14.00	27.00	42-T	41.17	3.70	12.67	27.34

The Buckeye Cotton Oil Div. of The
Buckeye Cellulose Corp.
Corinth, Mississippi

Buckeye 36% Solvent Ext. C/S Meal, P.Q. -----	36.00	2.00	17.00	27.00	150-R	36.55	3.06	15.67	29.41
Buckeye 41% Solvent Ext. C/S Meal -----	41.00	2.00	14.00	27.00	166-R	41.79	3.15	11.65	27.76
Buckeye 41% Solvent Ext. C/S Meal -----	41.00	2.00	14.00	27.00	151-R	42.44	3.70	10.36	27.24
Buckeye 36% C/S Meal, P.Q. -----	36.00	3.00	17.00	25.00	21-R	36.75	5.38	14.47	30.20
Buckeye 36% C/S Meal -----	36.00	3.00	17.00	25.00	103-D	35.52	5.09	15.49	28.64
Buckeye 41% Solvent Ext. C/S Meal -----	41.00	2.00	14.00	27.00	81-R	42.13	5.89	10.10	26.26
Buckeye 41% Protein C/S Meal, P.Q. -----	41.00	3.00	14.00	25.00	62-R	41.08	5.59	11.83	27.59
Buckeye 41% Solvent Ext. C/S Meal -----	41.00	2.00	14.00	27.00	119-T	41.71	2.33	11.76	29.26

The Buckeye Cotton Oil Division of The
Buckeye Cellulose Corp.
Jackson, Mississippi

36% Protein Cottonseed Meal -----	36.00	3.00	17.00	25.00	138-D	37.14	4.71	15.11	27.92
36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	81-D	36.49	5.24	14.72	28.86
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	53-D	38.36	5.84	14.67	26.33
Buckeye 36% Protein C/S Meal, P.Q. -----	36.00	3.00	17.00	25.00	55-D	36.77	5.82	14.97	27.17
Buckeye 36% Protein C/S Meal, P.Q. -----	36.00	3.00	17.00	27.00	158-D	35.25	5.08	16.03	28.25

* Deficient 1% or more in Crude Protein

Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
The Buckeye Cotton Oil Div. of The Buckeye Cellulose Corp. Montgomery, Alabama									
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	100-W	36.24	4.97	16.46	29.01
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	261-W	35.60	5.96	15.25	29.32
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	86-S	36.47	5.49	16.89	27.22
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	159-S	36.83	4.72	15.57	29.67
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	157-S	36.11	4.74	16.89	27.83
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	8-E	36.48	5.70	14.56	29.23
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	37-M	36.24	5.10	17.10	28.21
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	27-M	38.42	5.12	16.32	26.56
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	199-W	36.82	5.23	16.37	27.90
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	4-W	36.12	4.52	16.24	28.75
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	115-W	36.12	4.46	15.09	30.20
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	33-H	37.45	5.95	15.83	24.60
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	9-W	36.12	5.54	15.91	28.97
Buckeye 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	21-E	41.18	5.84	13.71	25.95
Buckeye 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	160-S	41.15	4.90	13.35	27.66

The Buckeye Cotton Oil Div. of
The Buckeye Cellulose Corp.
Selma, Alabama

Buckeye 41%	Protein	Cottonseed	Meal, P.Q.	41.00	3.00	14.00	25.00	127-S	41.74	5.36	11.77	27.35
Buckeye 41%	Protein	Cottonseed	Meal, P.Q.	41.00	3.00	14.00	25.00	167-S	40.29	5.00	13.76	28.26
Buckeye 41%	Protein	Cottonseed	Meal, P.Q.	41.00	3.00	14.00	25.00	164-S	42.46	5.90	13.84	23.67
Buckeye 41%	Protein	Cottonseed	Meal, P.Q.	41.00	3.00	14.00	25.00	165-S	41.46	5.35	11.83	28.93
Buckeye 41%	Protein	Cottonseed	Meal, P.Q.	41.00	3.00	14.00	25.00	166-S	41.49	4.95	13.10	27.75
Buckeye 41%	Protein	Cottonseed	Meal, P.Q.	41.00	3.00	14.00	25.00	117-S	41.80	6.26	11.31	28.11
Buckeye 41%	Protein	Cottonseed	Meal, P.Q.	41.00	3.00	14.00	25.00	118-S	41.50	6.05	13.98	25.04
Buckeye 41%	Protein	Cottonseed	Meal, P.Q.	41.00	3.00	14.00	25.00	119-S	41.11	6.26	14.08	25.32
Buckeye 41%	Protein	Cottonseed	Meal, P.Q.	41.00	3.00	14.00	25.00	50-S	41.80	4.83	13.43	26.71
*Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	37-S	34.68	4.48	16.70	30.94
#Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	219-S	35.23	5.18	18.12	28.06
*#Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	220-S	34.06	5.42	18.21	27.99
#Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	221-S	35.23	5.36	18.43	27.07
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	218-S	35.80	4.66	17.46	28.96
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	222-S	36.51	5.85	15.52	28.70
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	223-S	36.13	6.44	15.98	28.09
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	56-S	36.79	4.98	18.40	27.06
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	57-S	36.84	5.43	17.28	26.95
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	58-S	36.53	5.17	17.31	27.65
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	59-S	36.81	5.16	16.93	27.94
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	60-S	36.45	5.03	16.77	28.63
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	41-S	35.35	4.39	16.81	29.88
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	81-S	36.52	4.69	15.02	30.36
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	79-S	37.78	4.89	15.20	29.65
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	40-S	36.48	4.91	15.52	29.94
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	113-S	36.52	6.02	17.24	26.84
Buckeye 36%	Protein	Cottonseed	Meal, P.Q.	36.00	3.00	17.00	25.00	116-S	36.20	6.29	16.00	27.22

Excess 1% or more in Crude Fiber.

* Deficient 1% or more in Crude Protein.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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COMMERCIAL FEEDING STUFFS

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES					Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
					% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	105-S	36.84	3.92	15.71	30.67
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	115-S	37.40	4.00	15.98	28.50
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	111-S	36.22	5.06	16.50	29.69
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	104-S	36.44	3.93	16.22	30.07
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	103-S	36.18	3.84	15.96	30.61
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	106-S	36.83	4.03	15.82	30.63
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	107-S	36.22	4.43	15.72	30.35
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	108-S	36.82	4.06	15.60	30.40
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	110-S	36.52	4.32	16.35	30.26
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	120-S	36.51	5.53	14.98	29.45
#Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	102-S	37.72	5.28	18.02	26.08
*#Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	112-S	34.95	4.84	18.06	28.47
#Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	109-S	35.28	4.91	18.12	27.98
#Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	114-S	35.51	6.55	18.27	25.89
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	135-S	37.09	4.91	14.48	30.75
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	134-S	37.04	5.15	14.81	29.97
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	163-S	36.51	4.35	16.20	29.56
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	168-S	36.77	5.62	17.14	26.20
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	174-S	35.94	5.28	15.77	29.60
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	182-S	36.20	4.91	16.54	28.70
Buckeye	36%	Protein	Cottonseed	Meal, P.Q. -----	36.00	3.00	17.00	25.00	183-S	36.16	4.72	15.07	30.38

Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	132-S	36.84	4.94	15.44	29.36
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	129-S	35.81	4.58	15.49	30.17
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	130-S	36.15	5.75	14.95	26.74
Buckeye 36% Protein Cottonseed Meal -----	36.00	3.00	17.00	25.00	12-D	35.22	4.32	16.67	30.66
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	39-D	36.18	5.47	15.26	29.37
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	33-D	36.77	5.29	15.57	28.67
Buckeye 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	31-D	36.22	4.22	16.31	29.82
Burton Milling Co., Inc.									
Talladega, Alabama									
Burton's Horse & Mule Feed -----	9.00	2.50	15.00	50.00	216-E	11.08	4.67	9.53	50.56
Burton's Slick-Chick Starting Mash -----	20.00	3.50	8.00	45.00	225-E	22.14	3.55	6.40	47.48
Burton's Slick-Chick Growing Mash -----	17.00	3.50	8.00	45.00	224-E	18.42	3.67	6.03	50.79
Burton's Broiler Mash -----	20.00	3.50	8.00	45.00	223-E	20.57	3.71	4.17	48.38
MoMeat Hog Feed -----	14.00	3.00	8.00	45.00	220-E	14.52	3.88	3.83	57.23
Burton's Mo-Lay Laying Mash -----	20.00	3.00	8.00	45.00	221-E	20.59	3.05	6.18	48.46
MoMilk Dairy Feed -----	20.00	3.00	15.00	45.00	222-E	19.67	4.31	10.65	46.71
Burton's Special 16% Dairy Feed -----	16.00	3.00	15.00	45.00	215-E	15.13	3.27	12.05	49.18
Camp Grain & Milling Co.									
Talladega, Alabama									
Camp's Hi-Calorie Broiler Formula -----	23.00	4.00	2.75	51.00	189-E	24.32	5.36	2.20	48.87
Camp's Hi-Calorie Broiler Finisher -----	19.60	4.00	2.75	55.00	190-E	20.23	5.97	2.40	52.61
Capital Grain & Feed Co.									
Montgomery, Alabama									
Meat Scraps -----	50.00	2.00	3.00		83-M	50.31	5.27	1.55	0.95

* Deficient 1% or more in Crude Protein

Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Central Soya Co., Inc. Ft. Wayne, Indiana									
Solvent Extracted Soybean Meal -----	50.00	0.50	3.00	27.00	40-R	50.86	1.02	2.83	28.07
Central Soybean Mill Feed -----	11.00	2.00	33.00	36.00	85-S	13.12	4.49	29.92	36.05
City Mills Company Columbus, Georgia									
Cimco Cattle Pellets -----	20.00	3.00	12.00	49.00	241-W	21.83	6.11	7.92	45.79
Cocke & Company Atlanta, Georgia									
44% Protein Solvent Extracted S/B Meal -----	44.00	0.50	7.00	27.00	75-D	44.94	1.26	6.29	29.51
Collinsville Milling Co. Collinsville, Alabama									
Farmer Brown's 22% Hi-Bird Breeder Mash -----	22.00	3.00	7.00	45.00	236-E	22.77	3.93	5.46	47.91
Farmer Brown's 20% Golden Flow Dairy Feed -----	20.00	3.00	15.00	40.00	235-E	20.00	3.22	9.50	46.55
Farmer Brown's Hi-Hoss Horse & Mule Feed -----	9.00	2.50	14.00	50.00	233-E	13.03	3.99	6.83	57.30

Farmer Brown's 20% Hi-Bird Laying Mash -----	20.00	4.00	8.00	45.00	232-E	22.45	4.18	5.42	46.17
Farmer Brown's 20% Hi-Bird Growing Mash -----	20.00	4.00	8.00	45.00	231-E	21.18	4.13	5.76	27.25
Farmer Brown's Hi-Bird Wheat & Corn Scratch -----	9.00	2.50	3.00	65.00	230-E	9.83	3.52	2.92	68.26
Farmer Brown's 16% Big Moo Dairy Feed -----	16.00	3.00	15.00	40.00	234-E	15.63	3.18	11.51	48.97
*Farmer Brown's 40% A to Z Hog & Pig Supl. -----	40.00	5.00	7.00	40.00	228-E	35.54	4.30	4.80	28.38
Farmer Brown's 40% A to Z Hog & Pig Supl. -----	40.00	5.00	7.00	40.00	247-E	40.60	4.48	5.88	19.36
Farmer Brown's A to Z Hog & Pig Ration -----	16.00	4.50	6.00	47.00	229-E	17.17	3.28	3.46	55.67
Cooperative Mills, Inc.									
Cincinnati, Ohio									
40% Pork Maker -----	40.00	4.00	5.00	20.00	172-R	41.76	5.07	4.28	21.25
Broiler Maker Finisher—Medicated -----	19.00	4.50	4.00	53.00	171-R	21.39	4.54	2.99	53.59
All Mash Breeder Ration -----	16.00	4.50	5.00	50.00	170-R	17.03	5.42	3.49	54.26
Broiler Maker—Medicated -----	22.00	4.50	4.00	48.00	41-R	23.10	5.40	3.28	50.37
Broiler Maker Finisher—Medicated -----	19.00	4.50	4.00	53.00	42-R	20.57	4.55	2.74	54.75
Starting & Growing Mash -----	20.00	4.50	6.00	50.00	43-R	21.20	5.25	4.16	51.53
All Mash Breeder Ration -----	16.00	4.50	5.00	50.00	44-R	16.55	6.11	3.61	54.94
32% Milk Maker -----	32.00	2.50	10.00	35.00	45-R	31.47	3.66	8.25	35.35
Broiler Maker—Medicated -----	32.00	4.50	4.00	48.00	70-E	23.08	5.74	2.96	50.11
20% Milk Maker -----	20.00	3.00	10.00	45.00	69-E	20.27	4.96	7.55	46.33
Super Breeding Mash -----	20.00	4.50	6.00	45.00	85-E	23.04	5.28	3.68	46.71
20% Sow & Pig Feed -----	20.00	4.00	6.00	50.00	84-E	21.12	5.72	4.66	51.07
16% Utility Dairy -----	16.00	3.00	15.00	45.00	83-E	17.80	4.17	11.33	46.34
All Mash Laying Ration -----	16.00	4.50	5.50	50.00	82-E	16.54	5.42	4.23	55.59
Broiler Maker -----	22.00	4.50	4.00	48.00	81-E	24.02	5.50	3.41	48.48
40% Pork Maker -----	40.00	5.00	5.00	20.00	80-E	41.45	4.61	3.45	23.66
16% Utility Dairy -----	16.00	3.00	15.00	45.00	74-E	18.26	5.33	12.00	45.22
Starting & Growing Mash (Crumbles) -----	20.00	4.50	6.00	50.00	73-E	20.60	5.69	3.63	52.36
16% Milk Maker -----	16.00	3.00	10.00	50.00	72-E	18.73	5.28	7.66	47.65
32% Dairy Supplement -----	32.00	2.50	11.00	30.00	71-E	30.53	5.58	9.03	32.38

* Deficient 1% or more in Crude Protein

Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %		Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %
Coperative Mills, Inc. Guntersville, Alabama									
All Mash Breeder Ration G	16.00	3.50	5.00	50.00	111-T	16.54	4.91	3.88	55.85
Broiler Maker Finisher—Medicated	20.00	4.00	3.50	53.00	113-T	20.55	4.31	2.80	56.07
Cosby-Hodges Milling Co. Birmingham, Alabama									
Jazz Flo—Sweet 16	16.00	2.50	12.00	40.00	55-H	17.78	5.67	10.39	41.62
Jazz Flo—Sweet 16	16.00	2.50	12.00	40.00	43-S	16.67	3.66	10.83	46.52
Jazz Flo—Sweet 16	16.00	2.50	15.00	40.00	155-S	16.86	3.29	9.67	45.66
Jazz Flo—Sweet 16	16.00	2.50	10.00	48.00	270-W	17.65	3.81	9.71	47.45
Jazz Flo—Sweet 16	16.00	2.50	12.00	40.00	201-W	15.47	3.12	10.09	48.26
Jazz Flo—Sweet 16	16.00	2.50	12.00	40.00	7-D	16.25	3.52	10.53	44.78
Jazz Flo—Sweet 16	16.00	2.50	15.00	40.00	35-D	17.01	2.73	7.81	48.93
Jazz Flo—Sweet 16	16.00	2.50	12.00	40.00	56-D	17.80	3.73	8.43	46.73
Jazz Flo—Sweet 18	18.00	3.00	12.00	46.00	56-H	19.35	3.63	8.93	44.17
Jazz Flo—Sweet 18	18.00	3.00	12.00	46.00	42-S	19.77	3.68	10.52	44.83
Jazz Pig & Hog Wormer	18.00	3.00	6.00	50.00	167-E	19.97	3.32	6.02	48.23
Jazz Pig & Hog Supplement	40.00	2.50	8.00	22.00	219-E	41.17	2.59	5.21	26.37
Jazz Pig & Hog Supplement	40.00	2.50	8.00	22.00	80-W	41.09	2.93	7.08	25.45

Jazz Pig & Hog Supplement	40.00	2.50	8.00	22.00	35-W	39.90	3.42	6.72	25.84
Jazz Pig & Hog Supplement Meal	40.00	2.50	8.00	22.00	210-W	39.62	3.25	7.38	26.32
Jazz Pig & Hog Wormer	18.00	3.00	6.00	50.00	209-W	20.34	3.69	6.25	47.85
Jazz Poultry Booster	20.00	3.50	6.00	48.00	78-W	19.98	4.83	5.55	49.63
Jazz Poultry Supplement Mash	38.00	2.50	8.00	40.00	207-W	37.06	3.44	6.77	26.36
Jazz Broiler Finisher Pellets	20.00	6.00	5.00	50.00	128-R	20.27	8.17	3.10	47.64
Jazz Milk Producer	24.00	2.50	12.00	45.00	79-H	25.87	3.69	8.03	39.23
Jazz Milk Producer	24.00	2.50	10.00	45.00	58-D	24.31	4.28	7.66	41.93
Jazz Milk Producer	24.00	2.50	12.00	45.00	119-R	24.92	5.35	10.15	36.44
Jazz Complete Grower Crumbles	16.00	3.00	8.00	45.00	1-T	16.24	4.28	6.81	52.82
Jazz Grower	20.00	3.50	7.00	49.00	77-W	20.00	4.38	5.83	48.23
Jazz Complete Grower Crumbles	16.00	3.00	7.00	45.00	156-S	15.61	5.19	6.85	51.62
Jazz Complete Grower	16.00	3.00	7.00	45.00	37-W	17.96	5.26	6.20	53.15
Jazz Complete Grower Mash	16.00	3.00	7.00	45.00	127-R	17.02	5.54	5.82	51.12
Jazz 20% Dairy	20.00	2.50	12.00	48.00	9-D	23.10	4.74	9.51	40.12
Jazz Dairy Feed	20.00	2.50	15.00	48.00	203-W	21.53	3.70	9.78	43.11
Jazz Dairy Feed	20.00	2.50	15.00	48.00	106-R	22.78	5.01	9.40	39.60
Jazz Scratch Feed	9.00	2.50	5.00	60.00	82-W	8.75	3.40	2.09	71.08
Jazz Scratch Feed	9.00	2.50	5.00	60.00	211-W	8.59	3.49	2.45	71.52
Jazz Egg Producer Mash	20.00	3.50	7.00	48.00	272-W	20.56	3.97	6.74	50.29
Jazz Egg Producer Crumbles	20.00	3.50	7.00	48.00	208-W	21.78	4.77	6.22	45.54
Jazz Egg Producer	20.00	3.50	7.00	48.00	34-W	20.91	4.78	6.31	47.49
Jazz Egg Producer Crumbles	20.00	3.50	7.00	48.00	76-H	20.57	3.62	6.66	47.39
Jazz Egg Producer Pellets	20.00	4.50	7.00	48.00	44-S	21.32	4.64	5.76	47.76
Jazz Egg Producer	20.00	3.50	7.00	48.00	163-E	20.55	4.21	5.55	48.45
Jazz Egg Producer	20.00	3.50	7.00	48.00	226-E	26.83	4.25	6.51	40.17
Jazz Egg Producer	20.00	3.50	7.00	48.00	200-W	20.22	3.63	6.24	48.62
Jazz Egg Producer	20.00	3.50	7.00	48.00	75-W	21.22	4.47	5.14	48.12
Jazz Complete Egg Producer	16.00	3.00	7.00	45.00	74-W	17.16	4.15	6.57	50.40
Jazz Complete Egg Producer Mash	16.00	3.00	7.00	45.00	206-W	17.33	4.82	6.86	50.44
Jazz Egg Producer Crumbles	20.00	3.50	7.00	48.00	169-D	20.55	3.75	6.45	50.95

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Jazz Complete Egg Producer -----	16.00	3.00	7.00	45.00	33-W	18.12	4.95	6.28	50.92
Jazz Complete Egg Producer Mash -----	16.00	3.00	7.00	45.00	72-R	16.85	4.65	5.95	50.79
Green Pastures Horse & Cattle Feed -----	9.00	2.00	15.00	50.00	59-D	10.94	3.42	9.19	54.22
Green Pastures Horse & Cattle Feed -----	9.00	2.00	15.00	50.00	202-W	9.98	3.80	8.48	56.37
Jazz Flo—Sweet 32 Dairy Supplement -----	32.00	2.50	10.00	30.00	218-E	32.41	2.80	9.66	29.35
Green Pastures Horse & Cattle Feed -----	9.00	2.00	15.00	50.00	150-E	10.91	4.29	9.46	52.19
Green Pastures Horse & Cattle Feed -----	9.00	2.00	15.00	50.00	57-H	10.61	3.68	7.80	54.92
Jazz Green Pastures 16% Dairy -----	16.00	2.50	15.00	40.00	73-R	16.23	4.63	11.84	42.12
*Jazz Green Pastures 16% Dairy -----	16.00	2.50	15.00	40.00	1-M	14.99	4.51	12.03	44.43
Jazz All Grain for Horses & Cattle -----	9.00	2.50	12.00	50.00	65-E	8.59	3.83	4.87	64.12
Jazz All Grain for Horses & Cattle -----	9.00	2.50	12.00	50.00	34-D	9.53	3.69	4.52	63.25
Jazz Heavy Grain Horses & Cattle -----	9.00	2.50	12.00	50.00	57-D	8.90	3.58	5.07	63.19
Jazz Heavy Grain Horses & Cattle -----	9.00	2.50	12.00	50.00	105-D	9.07	3.72	5.30	62.22
All Grain Horse-Cattle -----	9.00	2.50	12.00	50.00	4-D	9.05	3.34	4.57	64.76
Wheat Gray Shorts-Wheat Bran Grain-Vit-Min -----	13.00	2.00	13.00	48.00	5-D	14.67	4.17	10.74	48.56
Jazz Chick Starter Mash—Medicated -----	20.00	2.50	6.00	51.00	271-W	20.91	4.14	5.89	53.04
Jazz Rabbit Ration -----	20.00	2.50	12.00	45.00	36-W	20.91	4.44	11.06	45.94
Jazz Hog Ration -----	18.00	2.50	8.00	51.00	164-E	19.65	3.74	7.38	47.77
Jazz Hog Ration -----	16.00	2.50	8.00	51.00	78-H	17.50	2.98	6.75	50.67
Jazz Hog Ration -----	18.00	2.50	8.00	51.00	79-W	19.83	3.95	7.39	47.61
Jazz Hog Ration -----	18.00	2.50	8.00	51.00	32-W	19.50	3.77	7.16	48.15
Jazz Cattle Supplement—S -----	32.00	2.50	10.50	32.00	36-D	34.03	3.41	9.30	29.20

COMMERCIAL FEEDING STUFFS

Jazz Dry & Freshener -----	12.50	2.50	12.00	50.00	60-D	12.80	4.34	9.72	48.43
Jazz Sugared Sow & Pig Pellets -----	16.00	2.50	8.00	45.00	81-W	16.71	4.05	8.01	52.86
Jazz Cage Layer Crumbles -----	17.00	3.00	5.50	47.00	45-S	17.42	4.53	4.99	52.31
Jazz Cage Layer -----	17.00	3.00	5.50	47.00	268-W	17.33	3.85	5.44	54.18
Jazz Cage Layer -----	17.00	3.00	5.50	47.00	83-W	17.34	4.38	5.21	52.39
Jazz Sugared Piglets -----	20.00	3.00	4.50	50.00	84-W	21.21	4.00	4.34	53.41
Jazz Dog Food -----	23.00	5.00	5.00	45.00	205-W	23.70	5.62	2.91	50.19
Jazz Grower Mash -----	20.00	3.50	8.00	45.00	204-W	21.80	4.29	5.51	49.71
Jazz Grower Crumbles -----	20.00	3.50	7.00	45.00	269-W	21.22	3.99	6.45	49.27
Jazz Rabbit Ration -----	20.00	2.50	12.00	45.00	85-W	20.60	4.63	11.81	44.87
Jazz Rabbit Ration Pellets -----	20.00	2.50	12.00	45.00	75-H	20.57	3.57	11.76	45.55
*Jazz Sugared Piglets -----	20.00	3.00	4.50	50.00	168-E	18.99	3.98	5.10	52.98
Cosby-Hodges Milling Co. Mobile, Alabama									
Jazz Egg Producer -----	20.00	3.50	7.00	48.00	10-D	21.21	3.97	5.73	47.92
Cosby-Hodges Milling Co. Opelika, Alabama									
Jazz Complete Grower -----	16.00	3.00	7.00	45.00	76-W	17.00	5.01	6.22	51.99
Cothran Feed Company Selma, Alabama									
Cothran Good Dairy Feed 16% -----	16.00	3.50	14.00	45.00	83-S	15.96	4.56	11.84	46.93
Steer Fatner -----	13.00	0.50	14.00	44.00	84-S	12.80	1.25	10.15	54.98
Cothran Special Dairy Feed 20% -----	20.00	3.00	14.00	41.00	35-S	20.25	3.18	7.04	47.22

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Cullman Seed & Feed Co. Cullman, Ala.									
Profit 20% Laying Mash -----	20.00	3.50	6.50	45.00	167-R	20.56	3.59	4.85	48.78
Profit Starting Mash -----	20.00	3.00	6.00	48.00	192-R	20.54	3.69	4.11	52.54
Profit Growing Mash -----	18.00	3.00	6.50	50.00	191-R	18.10	3.92	4.05	53.37
Profit Growing Mash -----	18.00	3.00	6.50	50.00	103-R	18.22	3.90	3.73	57.85
Profit 18% Cage & All Mash Laying Ration -----	18.00	3.50	6.00	45.00	104-R	18.00	5.07	4.19	50.94
Profit Hog Ration -----	14.00	6.00	3.50	59.00	37-E	14.99	4.40	4.10	57.99
Profit 20% Laying Mash -----	20.00	3.50	6.50	45.00	38-E	20.28	4.18	5.19	49.13
Profit Growing Mash -----	18.00	6.50	3.00	50.00	39-E	18.13	3.87	4.02	53.64
Profit Starting Mash -----	20.00	6.00	3.00	48.00	40-E	20.91	3.78	4.09	52.48
Decatur Cotton Oil Co. Decatur, Alabama									
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	14-R	40.18	3.60	12.94	26.51
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	2-E	41.10	3.68	12.92	27.08
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	44-T	43.30	8.22	11.68	19.83
#*41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	84-R	38.96	4.70	14.58	24.92
*41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	12-R	39.65	3.55	13.90	26.12
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	13-R	41.79	3.59	12.67	25.55

COMMERCIAL FEEDING STUFFS

41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	15-R	41.81	3.87	11.79	26.86
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	85-R	43.63	4.55	13.95	26.26
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	83-R	40.57	4.42	13.12	26.30
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	82-R	41.21	4.30	13.10	25.04
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.50	13.00	25.00	28-E	42.13	3.60	12.65	26.36
#*36% Protein Cottonseed Meal, P.Q. -----	36.00	3.50	16.00	25.00	71-M	34.96	3.55	17.79	28.28
#*36% Protein Cottonseed Meal, P.Q. -----	36.00	3.50	16.00	25.00	16-R	33.40	3.56	17.83	21.09
36% Protein Cottonseed Meal, P.Q. -----	36.00	3.50	16.00	25.00	17-R	39.57	3.81	14.32	27.53
*36% Protein Cottonseed Meal, P.Q. -----	36.00	3.50	17.00	25.00	190-R	34.33	6.46	16.56	25.93
*36% Protein Cottonseed Meal, P.Q. -----	36.00	3.50	16.00	25.00	168-R	34.25	6.46	16.14	25.67
36% Protein Cottonseed Meal, P.Q. -----	36.00	3.50	16.00	25.00	73-M	35.60	5.18	16.11	28.31
36% Protein Cottonseed Meal, P.Q. -----	36.00	3.50	16.00	25.00	43-T	36.14	5.31	16.91	29.68
36% Protein Cottonseed Meal, P.Q. -----	36.00	3.50	16.00	25.00	6-W	38.95	3.56	13.13	28.79
Delta Cotton Oil & Fertilizer Co.									
Jackson, Miss.									
41% Protein Cottonseed Meal, P.Q. -----	41.00	2.00	14.00		20-D	41.19	2.11	11.12	23.61
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	86-T	41.16	3.56	13.00	27.17
41% Protein Solvent C/S Meal, P.Q. -----	41.00	2.00	14.00		82-D	41.84	2.42	12.33	26.36
41% Protein Solvent C/S Meal, Extracted -----	41.00	0.50	14.00	28.00	97-D	41.48	1.08	11.59	28.05
41% Protein Solvent C/S Meal -----	41.00	2.00	14.00		90-D	42.10	2.07	12.91	25.91
41% Protein Solvent C/S Meal -----	41.00	2.00	14.00		146-D	41.21	2.13	12.88	26.17
44% Protein Solvent Extracted S/B Oil Meal -----	44.00	0.50	7.00	27.00	52-D	46.75	1.18	5.68	27.26
44% Protein Solvent Extracted S/B Oil Meal -----	44.00	0.50	7.00	27.00	114-D	45.60	1.10	5.74	28.50
Delta Oil Mill, Inc.									
Jonestown, Miss.									
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	16-E	41.18	4.29	12.25	25.87
*36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	176-S	34.29	3.43	15.71	30.18

*Deficient 1% or more in Crude Protein.

#Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Dixie Grain Co. Shelbyville, Tenn.									
Dixie Home Laying Concentrate -----	36.00	4.00	6.50	23.00	144-W	40.78	4.54	4.93	23.80
Dixie Home Poultry Laying Feed -----	20.00	3.50	7.00	46.00	145-W	20.88	3.59	5.15	51.34
Dixie Home Starter Ration -----	21.00	3.50	5.00	47.00	146-W	20.90	5.90	3.61	51.59
Dixie Home Hog Supplement -----	40.00	4.00	8.00	30.00	142-W	41.09	5.10	4.09	23.83
Dixie Home Hog Ration -----	16.00	3.00	8.00	45.00	141-W	15.76	5.25	6.07	52.24
Southern 16% Dairy Feed -----	16.00	2.50	15.00	43.00	140-W	16.08	3.06	14.32	41.62
Southern Horse & Mule Feed -----	9.00	2.00	15.00	35.00	139-W	10.76	4.01	10.14	56.97
Dixie Home Rabbit Pellets -----	17.00	2.50	15.00	45.00	151-W	17.78	3.71	12.51	47.21
#Dixie Home Poultry Growing Feed -----	18.00	3.50	6.00	47.00	143-W	19.50	4.11	8.24	47.84
Dothan Oil Mill Co. Dothan, Alabama									
36% Protein Solvent Extracted C/S Meal -----	36.00	2.00	17.00	27.00	2-M	36.14	1.96	17.73	31.16
36% Protein Solvent Extracted C/S Meal -----	36.00	2.00	17.00	27.00	1-H	36.16	2.11	17.48	31.11
36% Protein Solvent Extracted C/S Meal -----	36.00	2.00	17.00	27.00	43-H	36.75	2.19	16.75	30.93
*36% Protein Solvent Extracted C/S Meal -----	36.00	2.00	17.00	27.00	95-M	34.57	2.95	17.43	32.02
45% Protein Solvent Extracted Peanut Feed -----	45.00	2.00	20.00	25.00	87-S	49.27	2.02	13.77	22.74
45% Protein Solvent Extracted Peanut Feed -----	45.00	2.00	20.00	25.00	8-H	44.35	2.12	20.98	20.16

COMMERCIAL FEEDING STUFFS

Eagle Cotton Oil Co.
Meridian, Mississippi

41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	51-S	41.14	4.44	13.01	24.79
41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	55-S	41.82	4.33	11.89	27.28
36% Protein Cottonseed Meal, P.Q. -----	36.00	4.50	16.00	25.00	52-S	37.68	6.15	15.44	26.55

Elba Milling Company
Elba, Alabama

Ground Peanut Vine Hay & Cane Molasses -----	7.00	2.00	38.00	30.00	153-D	9.53	4.02	35.11	30.97
Ground Peanut Vine Hay & Cane Molasses -----	7.00	2.00	38.00	30.00	47-D	9.69	3.28	24.83	37.98
Ground Peanut Vine Hay & Cane Molasses -----	7.00	2.00	38.00	30.00	80-D	8.44	3.22	37.81	31.83
Ground Peanut Vine Hay & Cane Molasses -----	7.00	2.00	38.00	30.00	143-D	9.99	4.19	26.97	37.01
Ground Peanut Vine Hay & Cane Molasses -----	7.00	2.00	38.00	30.00	84-D	8.44	3.42	36.17	33.27
Ground Peanut Vine Hay & Cane Molasses -----	7.00	2.00	38.00	30.00	106-D	9.22	3.39	32.92	34.60
Ground Peanut Vine Hay & Cane Molasses -----	7.00	2.00	38.00	30.00	104-D	9.53	3.32	33.17	33.33
Ground Peanut Vine Hay & Cane Molasses -----	7.00	2.00	38.00	30.00	95-D	9.22	2.41	36.56	27.94
Elba Star Hog Fattener -----	14.00	3.00	4.00	56.00	58-H	13.58	3.97	2.85	62.00
Elba Star All Mash Layer -----	17.00	4.50	3.50	57.00	59-H	17.02	4.96	2.11	56.96
Elba Star Pullet Grower -----	18.00	3.00	6.00	50.00	60-H	17.80	3.78	4.50	55.15

Elmore County Exchange, Inc.
Wetumpka, Alabama

*Elco 20% Egg Mash -----	20.00	3.00	6.50	46.00	175-W	18.42	5.33	7.27	52.78
Elco Pig & Sow Meal -----	14.50	3.00	6.00	60.00	173-W	16.04	3.64	5.86	56.00
3-Nitro-4-Hydroxyphenyl-Arsonic Acid & Nicarbazin Mixture in Elco Broiler Finisher -----	19.00	5.00	3.00	55.00	88-M	19.95	5.93	2.28	54.69
3-Nitro-4-Hydroxyphenyl-Arsonic Acid & Nicarbazin Mixture in Elco Broiler Starter -----	22.50	5.00	3.00	52.00	258-W	23.41	5.13	2.25	52.16

*Deficient 1% or more in Crude Protein.
Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %		Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %
Eufaula Cotton Oil Co.									
Eufaula, Alabama									
36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	21.00	54-M	38.60	4.15	16.43	28.38
36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	21.00	105-M	36.79	3.85	14.34	32.84
Eufaula Milling Co.									
Eufaula, Alabama									
Check-R-Mix Sow & Pig Feed E -----	16.00	3.00	6.00	52.00	46-M	17.17	4.23	4.58	57.58
Ground Peanut Vine Hay & Molasses -----	8.00	2.00	30.00	40.00	45-M	10.29	3.73	27.60	36.25
Ground Snapped Corn -----	7.50	3.00	10.00	60.00	44-M	6.72	3.50	7.87	69.07
Ground Snapped Corn -----	7.50	3.00	10.00	60.00	72-M	7.64	3.61	7.22	66.14
Check-R-Mix Laying Feed (All Mash) SA -----	16.00	3.00	6.00	53.00	47-M	15.92	4.37	4.90	56.28
Famous Feed Mills									
Nashville, Tennessee									
Uncle Dan 16% Dairy Feed -----	16.00	2.50	15.00	45.00	3-T	20.59	4.58	10.26	42.36
Uncle Dan 18% Dairy Feed -----	18.00	2.50	15.00	41.00	4-T	21.07	4.03	10.17	40.32
Golden Gain 40% Hog Supplement -----	40.00	1.00	7.00	30.00	65-T	39.30	2.59	5.36	29.75

Farm Industries
Decatur, Alabama

Broiler Finisher -----	22.50	6.00	3.00	49.00	160-R	21.53	6.51	1.97	52.04
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Farm Service & Supply Co.
Florence, Alabama

F.S. Check-R-Mix Pig Starter (A) 3 AB-Med. -----	16.00	2.50	6.00	54.00	114-T	18.26	3.35	3.38	56.80
F.S. Check-R-Mix Laying Feed (All Mash) SK -----	16.00	3.00	6.00	55.00	38-T	16.39	4.53	3.71	55.77
F.S. Check-R-Mix Cage Laying Feed -----	16.00	3.00	6.00	52.00	121-T	16.56	4.24	3.36	57.43
F.S. Check-R-Mix Pig Starter (A) AB Med. -----	16.00	2.50	6.00	54.00	36-T	15.62	3.53	3.16	59.56
F.S. Check-R-Mix Hog Grower (A) 3-N-Med. -----	14.00	2.50	6.00	56.00	35-T	17.48	3.34	3.40	56.54
F.S. Check-R-Mix Cage Laying Feed (All Mash) -----	16.00	3.00	6.00	52.00	41-T	15.92	4.55	2.96	56.76
F.S. Check-R-Mix Developer Feed (All Mash) (K) MG Med.	15.00	3.00	7.00	52.00	37-T	15.14	4.91	5.75	54.88
F.S. Check-R-Mix Growing Feed (All Mash) (SH) MG— Medicated -----	17.00	2.50	7.00	50.00	39-T	17.17	4.06	4.01	57.23
F.S. Check-R-Mix Broiler Finisher (L) 3MG Medicated -----	20.00	4.50	3.00	52.00	122-T	21.85	4.61	2.23	55.41
F.S. Check-R-Mix Laying Feed (All Mash) SK -----	16.00	3.00	6.00	55.00	123-T	15.62	4.62	3.85	59.88

Farmers & Ginners Cotton Oil Co.
Birmingham, Alabama

#Jersey Brand 30% Protein Cottonseed Feed -----	30.00	2.50	20.00	32.00	54-R	31.53	3.85	22.41	31.48
#Kiddo 22% Protein Cottonseed Feed -----	22.00	2.00	26.00	38.00	55-R	25.26	3.13	27.42	33.09
#Green Tag 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	30.00	5-W	36.52	3.82	18.15	30.00
Green Tag 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	30.00	115-R	37.14	5.07	17.48	29.40
Green Tag 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	30.00	63-S	38.37	3.88	17.68	29.54
Green Tag 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	30.00	27-S	36.47	3.35	16.75	32.55
#Green Tag 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	30.00	63-R	36.50	3.78	18.60	30.53
Green Tag 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	30.00	65-R	36.72	4.46	16.94	30.67

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
#Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	188-S	37.41	5.05	18.49	27.95
Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	263-W	35.60	4.45	15.60	30.51
Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	117-R	37.10	4.97	17.52	29.71
Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	118-R	37.16	4.09	17.38	29.54
Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	116-R	37.45	4.71	17.44	29.85
*Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	170-R	34.07	3.88	17.43	32.62
Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	57-R	35.49	3.64	17.02	31.95
#Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	113-R	36.53	4.09	18.71	28.91
#Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	114-R	35.57	4.29	18.03	30.62
#Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	50-R	37.39	4.83	18.45	27.65
Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	53-R	36.53	3.34	17.34	30.57
Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	58-R	36.14	4.00	17.95	23.89
Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	59-R	36.13	3.43	16.68	31.91
Green Tag 36% Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	30.00	58-R	37.40	3.42	15.34	32.94
#Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	17.00	30.00	244-E	35.81	3.94	17.47	31.08
Premier Brand 41% Protein C/S Meal	41.00	3.00	14.00	24.00	67-R	42.07	4.82	15.36	27.11
#Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	25-E	41.83	4.30	12.72	28.62
#Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	19-E	42.13	5.17	15.56	27.00
#Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	140-S	41.44	4.74	15.65	28.16
Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	64-R	42.62	4.78	15.36	26.46
Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	112-R	41.30	4.71	14.69	27.75
Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	109-R	41.78	6.47	14.85	25.91

#Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	110-R	42.37	4.88	15.29	26.52
#Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	111-R	42.11	5.38	15.14	26.15
Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	1-R	44.23	4.55	12.13	29.76
Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	51-R	41.83	3.83	14.02	28.54
#Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	61-R	41.80	3.90	15.66	28.51
#Premier Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	24.00	60-R	43.05	4.66	15.62	26.59
Farmers Milling Co. Dothan, Alabama									
Super D Complete Sow & Pig Feed	16.00	3.50	6.00		69-H	16.55	4.07	4.96	55.17
Super D 16% Dairy Feed	16.00	2.50	15.00	42.00	70-H	15.93	3.03	8.73	50.37
Farmers Rice Milling Co., Inc. Lake Charles, Louisiana									
Rice Bran	12.00	12.00	12.00		239-S	14.36	16.98	8.39	39.68
Rice Bran	12.00	12.00	12.00		102-D	11.56	13.50	9.32	42.94
Farmers Supply Co. Rutledge, Alabama									
Ground Ear Corn	7.00	3.00	12.00	60.00	60-M	7.34	4.10	8.72	63.42
Fayette Mill, Gin & Ice Co. Fayette, Alabama									
E-M-G Horse & Mule Feed	9.00	3.00	13.00	50.00	76-R	8.89	4.84	6.65	62.14
Wild Rose 20% Dairy Feed	20.00	4.00	15.00	46.00	75-R	21.57	3.20	8.00	49.10
Wild Rose 18% Dairy Feed	18.00	4.00	15.00	46.00	74-R	19.99	3.34	9.00	49.98

* Deficient 1% or more in Crude Protein
Excess 1% or more in Crude Fiber.

Laying Mash—SureLay Complete	16.00	2.50	5.00	52-T	16.08	3.93	3.86	56.64
J. T. Gibbons, Inc. New Orleans, Louisiana								
Gibbons Turkey Grower	22.00	3.00	6.00	143-D	21.48	3.66	4.30	51.75
Gibbons 32% Dairy Concentrate	32.00	3.00	9.00	51-D	34.03	4.50	8.42	26.63
Gibbons Gibbgrain	10.00	3.00	10.00	161-D	13.42	4.24	7.56	58.69
Gibbons 16% Protein Dairy Feed	16.00	3.00	9.00	42-D	15.93	3.92	7.70	48.60
Gibbons 16% Dairy Feed	16.00	3.00	8.00	162-D	16.10	3.31	10.89	48.15
Gibbons 18% Dairy Feed	18.00	3.00	9.00	49-D	20.14	3.00	9.04	45.99
Gilliland & Echols Ft. Payne, Alabama								
Green Mountain 18% Broiler Finisher	18.00	3.50	6.00	18-E	20.46	5.56	3.51	51.83
Green Mountain Best 23% Broiler Mash	23.00	5.00	5.50	17-E	24.00	5.61	3.64	47.37
Gold Kist Peanut Growers Graceville, Florida								
Cloverdale 40% Hog Supplement—C	40.00	3.00	10.00	80-M	42.96	4.04	5.20	20.49
Cloverdale 18% Cage Layer	18.00	3.00	4.50	78-M	18.00	4.20	3.51	53.38
Cloverdale 40% Hog Supplement—C	40.00	2.00	10.00	71-H	40.54	3.84	6.12	22.79
Cloverdale 17% Chick Grower	17.00	3.00	5.50	73-H	17.64	4.15	4.52	57.40
Gold Kist Poultry Growers Canton, Georgia								
Poultry Meat Meal	55.00	10.00	3.00	85-M	58.40	15.47	1.11	1.59

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis							
	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %		Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %				
Goldenrod Oil Meal Sales Co. Memphis, Tennessee													
Goldenrod 36% Protein Cottonseed Meal, P. Q.	36.00	3.00	17.00	25.00	87-T	36.16	4.20	15.66	30.51				
Goldenrod 36% Protein Cottonseed Meal, P. Q.	36.00	3.00	17.00	25.00	172-S	35.21	3.35	12.51	30.81				
Goldenrod 36% Protein Cottonseed Meal, P. Q.	36.00	3.00	17.00	25.00	133-S	35.28	4.14	13.28	29.59				
Goldenrod 36% Protein Cottonseed Meal, P. Q.	36.00	3.00	17.00	25.00	100-S	35.25	4.17	12.82	28.33				
Goldenrod 41% Protein Cottonseed Meal, P. Q.	41.00	3.00	14.00	25.00	134-D	42.38	5.65	10.80	28.15				
The Great Western Sugar Co. Billings, Montana													
Dried Beet Pulp	8.00		22.50	54.00	15-D	8.43	0.52	19.87	56.62				
Dried Beet Pulp	8.00		22.50	54.00	27-D	8.89	0.74	20.23	57.03				
Greenwood Products Co. Graceville, Florida													
Cloverdale 36% Sow & Litter Supplement	36.00	3.00	9.50		79-M	34.89	4.92	8.64	19.84				
Cloverdale 22% Broiler Starter with 3-Nitro, 4 Hydroxyphenylarsonic Acid	22.00	2.50	4.50		72-H	23.68	3.97	3.72	51.97				

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %		Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %
Enterprise Blue Pennant Laying Mash	20.00	3.50	7.00		64-H	20.88	5.42	5.03	50.63
Hartford Milling Co. Hartford, Alabama									
Ground Peanut Vine Hay Meal & Molasses	7.00	3.00	38.00	40.00	28-H	9.20	4.02	27.69	38.51
Ground Whole Ear Corn	7.00	3.00	10.00	50.00	29-H	7.18	3.47	8.92	67.49
Headland Milling Co. Headland, Alabama									
Ground Peanut Vine Hay Meal & Cane Molasses	7.50	2.00	30.00	40.00	39-H	10.30	4.39	25.89	34.82
Ground Whole Ear Corn	7.50	2.00	10.00	55.00	38-H	7.65	3.42	8.62	66.46
Hermitage Feed Mills Nashville, Tennessee									
Uncle Remus Range Pellets (Cattle)	20.00	2.50	15.00	45.00	82-M	19.64	3.57	16.76	35.34
Best Yet 16% Dairy Feed	16.00	2.50	15.00		200-S	18.10	4.24	15.04	39.48

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis					Department Number	State Chemist's Analysis						
	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %	Crude Protein %		Crude Fat %	Crude Fiber %	Nitrogen Free Extract %	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %
Leland Oil Works Leland, Mis.s													
44% Protein Solvent Ext. Soybean Oil Meal	44.00	0.50	7.00	27.00	240-S	46.31	1.46	6.82	29.57				
41% Protein Solvent Ext. Cottonseed Meal	41.00	2.00	14.00		252-S	40.26	3.29	11.70	26.07				
Loretto Milling Company Loretto, Tenn.													
Loretto Dairy Feed	16.00	3.00	12.00	55.00	2-T	16.40	3.88	8.53	52.92				
McMillen Feed Mills Chattanooga, Tennessee													
Master Mix Egg Mash	20.00	2.50	7.00	45.00	128-E	20.00	3.44	5.03	49.16				
Master Mix Pullet Grower	18.00	2.50	7.00	47.00	127-E	19.65	3.81	5.22	50.95				
Master Mix Chick Starter	20.00	3.50	5.00	51.00	126-E	19.32	4.48	3.25	46.10				
Master Mix All Mash Layer	17.00	4.50	3.50	57.00	125-E	18.42	4.75	2.78	56.51				
Master Mix Beef Concentrate	32.00	1.00	9.50	30.00	129-E	34.95	2.62	6.90	32.68				
Master Blend Dairy Concentrate	33.00	5.00	9.00	31.00	124-E	33.69	2.50	6.84	33.37				
Master Mix Pig-Ets	17.00	3.50	3.50	51.00	119-E	18.26	5.46	3.11	56.62				
Master Mix Sow & Pig Concentrate	36.00	1.50	9.00	26.00	120-E	36.14	2.94	5.67	27.99				

Master Mix 35% Hog Concentrate	35.00	1.50	9.00	25.00	121-E	36.21	2.91	5.52	26.96
Master Mix Fitting Feed	12.00	3.00	9.00	51.00	122-E	12.78	3.21	8.12	55.50
Master Mix Horse Feed	10.00	3.00	9.00	55.00	123-E	11.07	3.61	7.15	60.80
Master Mix Sweet 16% Dairy	16.00	2.50	15.00	46.00	130-E	20.74	3.65	11.27	34.94
McMillen Feed Mills Ft. Wayne, Indiana									
Master Mix 35% Hog Concentrate	35.00	1.50	9.00	25.00	5-H	35.59	3.32	5.72	26.38
Master Mix 35% Hog Concentrate	35.00	1.50	9.00	25.00	137-D	35.59	2.85	6.89	29.71
Master Mix 40% Hog Concentrate	40.00	1.50	6.00	24.00	136-D	39.62	1.75	4.26	26.93
Master Mix 40% Hog Concentrate	40.00	1.50	6.00	24.00	262-W	41.83	2.18	4.30	32.76
Master Mix Sow Concentrate	34.00	1.50	9.00	20.00	188-E	34.92	2.38	6.70	23.84
Master Mix Hi-Calorie Broiler Starter—Med.	24.00	6.00	3.00	46.00	101-T	24.32	6.28	2.44	49.29
Master Mix Hi-Calorie Broiler Starter Conc.—Medicated	42.50	8.50	3.00	24.00	183-E	43.02	8.53	2.93	23.03
Master Mix Hi-Calorie Broiler Starter Conc.—Medicated	42.50	8.50	3.00	24.00	44-H	42.39	8.39	2.82	22.23
Master Mix Baby Pig Creep—Medicated	20.00	5.00	2.50	52.00	3-H	23.05	6.82	1.95	49.94
Master Mix 40% Hog Pastu-Ate	40.00	1.00	6.00	50.00	187-E	40.00	1.78	5.40	25.80
Master Mix 44% Dairy Supplement	44.00	1.00	10.00	28.00	185-E	46.15	2.90	6.22	14.61
Martha White Mills, Inc. Nashville, Tenn.									
Fortune 40% Hog Supplement	40.00	4.00	8.00	21.00	13-T	40.00	4.73	7.14	26.76
Geo. B. Matthews & Sons, Inc. New Orleans, Louisiana									
Miracle All Mash Egg Ration Crumbles	16.00	4.00	8.00	50.00	145-D	19.68	4.64	5.98	48.71
Miracle Turkey Growing Crumbles	20.00	3.50	8.00	45.00	151-D	20.92	4.18	6.76	49.25
Miracle 16% Protein Dairy Feed	16.00	3.50	8.00	48.00	146-D	16.08	5.61	8.04	49.92

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis					Department Number	State Chemist's Analysis						
	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %	Crude Protein %		Crude Fat %	Crude Fiber %	Nitrogen Free Extract %				
Millers Feed & Grist Mill Luverne, Alabama													
Ground Peanut Vine Hay & Molasses	7.00	2.00	38.00	30.00	94-D	7.02	3.80	21.95	39.93				
Ground Peanut Vine Hay & Molasses	7.50	1.50	36.00	32.00	152-D	9.36	4.35	33.56	30.60				
#Snapped Ear Corn	7.88	3.39	9.73	65.94	66-D	7.18	3.99	12.45	60.66				
Minute Maid Corp. Orlando, Florida													
Golden Isle Citrus Pulp	5.50	2.75	15.00	55.00	142-D	6.56	3.12	11.73	61.95				
Golden Isle Citrus Pulp	5.50	2.75	15.00	55.00	46-D	6.72	5.58	10.92	59.06				
Miss. Oil Mills, Inc. Kosciusko, Mississippi													
41% Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	250-S	40.57	5.10	9.53	29.14				
41% Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	251-S	41.18	4.40	9.78	29.23				
41% Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	249-S	40.52	4.41	9.68	29.57				
41% Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	246-S	40.19	5.72	9.67	27.69				

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis					Department Number	State Chemist's Analysis							
	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %	Crude Protein %		Crude Fat %	Crude Fiber %	Nitrogen Free Extract %					
Nutrena Mills Meridian, Mississippi														
Hi-Point Broiler Starter w/gly	26.00	9.00	3.50	43.00	121-D	24.34	9.20	2.09	47.16					
Hi-Point Broiler Starter w/gly	26.00	9.00	3.50	43.00	120-D	24.32	9.09	2.13	47.09					
Nutrena Hi-Point Broiler Starter—Medicated	26.00	9.00	3.50	43.00	123-D	26.21	8.77	2.24	45.50					
Nutrena Hi-Point Broiler Finisher—Medicated	23.00	9.00	3.50	45.00	122-D	24.38	8.69	2.25	47.72					
Nutrena Mills, Inc. Minneapolis, Minnesota														
Creep 20 Master Pig Starter	20.00	3.00	4.50	50.00	11-E	20.91	4.63	3.93	53.56					
Triumph Grain Feed (91% Grain)	9.00	2.00	10.00	60.00	16-M	9.22	2.53	10.00	59.86					
Nutrena Fifty Grand Complete Egg Ration	18.00	7.00	4.00	50.00	113-W	21.99	5.41	3.58	46.95					
Cal-o-Life Starter Pellets	20.00	3.50	5.00	52.00	251-W	21.54	3.64	3.84	52.42					
Bell Cow 16% Dairy Feed MM	16.00	3.00	13.00	45.00	204-S	16.09	4.05	10.23	45.89					
Bell Cow 16% Dairy Feed Roughage Feed	16.00	3.00	13.00	45.00	10-M	16.40	4.19	10.95	47.61					
Old Maud Mule Feed	9.00	2.00	15.00	55.00	100-M	10.45	2.98	12.62	58.10					
Nutrena Fifty Grand Complete Egg Ration	18.00	7.00	4.00	50.00	17-W	8.35	6.86	3.21	49.82					
Nutrena Dry Cow & Fitting Feed	13.00	3.00	9.00	52.00	12-M	13.11	3.19	6.71	57.77					
Nutrena Super Broiler Ration	22.00	3.00	4.00	52.00	26-W	23.38	5.46	2.32	52.06					
Nutrena Super Broiler Ration (S) Medicated	22.00	3.00	4.00	52.00	11-M	27.76	4.60	2.57	47.57					

Nutrena Sweetflow 32 Dairy Supplement	32.00	2.50	8.00	37.00	13-M	32.48	3.57	7.13	34.86
Nutrena Sweetflow 41 Dairy Concentrate	41.00	2.00	8.00	26.00	15-M	41.51	4.83	6.47	19.12
Nutrena 20% Cattle Range Cubes	20.00	2.00	12.00	42.00	101-H	23.09	5.32	10.03	42.35
Nutrena 12% Hog Finisher—Medicated	12.00	2.50	3.50		98-M	13.12	3.51	3.47	64.63
Nutrena Shoa 14—Medicated	14.00	3.50	4.50	57.00	99-M	14.05	3.70	4.51	62.10
Nutrena 38% Poultry Concentrate	38.00	4.00	7.00	25.00	8-M	38.10	4.41	7.00	26.10
Nutrena Sweetflow—16 Dairy Feed (MM)	16.00	3.00	9.50	50.00	9-M	17.33	3.39	8.77	49.84
Nutrena Shoa 40 Concentrate	40.00	1.00	9.00	25.00	61-E	43.04	3.36	6.13	19.88
Nutrena Shoa 40 Concentrate	40.00	1.00	9.00	25.00	20-W	41.81	4.53	6.14	19.77
Nutrena Shoa 40	40.00	1.00	9.00	25.00	29-W	40.61	2.50	7.79	22.04
Nutrena Pre Shoa 16	16.00	3.00	3.50	55.00	64-E	17.59	3.11	2.76	58.70
Nutrena Pre-Shoa 16 Medicated	16.00	3.00	3.50	55.00	19-W	16.40	3.14	2.92	59.44
Nutrena Pre-Shoa 16	16.00	3.00	3.50	55.00	18-M	17.33	3.17	2.80	69.79
Nutrena Creep 20 Master Pig Starter	20.00	3.00	4.50	50.00	60-E	20.57	4.85	2.83	53.82
Nutrena Creep 20	20.00	3.00	4.50	50.00	19-M	20.91	4.51	3.04	23.87
Nutrena Fifty Grand Complete Egg Ration	18.00	7.00	4.00	50.00	14-M	18.28	6.08	3.88	51.73
Complete Hog Fatner (Nuggets)	15.00	3.00	7.00	55.00	10-E	16.85	3.67	4.42	58.11
Nutrena 40% Hog Concentrate	40.00	1.50	7.00	23.00	252-W	41.84	1.86	6.70	25.78
Nutrena 40% Hog Concentrate	40.00	1.50	7.00	23.00	59-E	41.46	1.99	6.85	25.74
Nutrena 40% Hog Concentrate	40.00	1.50	7.00	23.00	17-M	41.84	2.16	10.70	23.29
20% Egg Feed (Crumbled)	20.00	2.50	7.00	46.00	12-E	19.35	5.10	5.53	50.52
Nutrena Turkey Starter	27.00	2.50	8.00	37.00	172-E	28.06	4.10	5.44	41.35
Nutrena Turkey Starter—Medicated	28.00	2.50	8.00	37.00	254-W	28.97	3.77	5.09	42.17
Turkey Grower (Pellets)	20.00	2.50	8.00	44.00	3-W	20.89	3.82	6.39	51.42
*Nutrena Turkey Grower	20.00	2.50	8.00	44.00	58-E	18.44	4.18	6.18	54.35
Nutrena 20% Egg Ration	20.00	2.50	7.00	46.00	18-W	20.58	5.00	6.47	48.02
Nutrena Cage Egg Ration	18.00	4.00	6.00	52.00	65-E	17.78	4.20	5.13	52.14
Nutrena Cage Egg Ration	18.00	4.00	6.00	52.00	202-S	20.02	4.36	4.53	57.27
Nutrena Complete Pullet Grower	15.00	2.50	7.00	52.00	181-E	16.23	3.92	4.63	57.23
Complete Egg Ration	16.00	4.00	6.00	54.00	66-E	17.61	4.51	4.01	56.31
Nutrena Complete Egg Ration	16.00	4.00	6.00	54.00	173-E	16.06	4.39	4.43	55.63

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %		Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %
Nutrena Complete Egg Ration	16.00	4.00	6.00	54.00	16-W	16.71	4.53	5.13	54.22
Nutrena Complete Egg Ration	16.00	4.00	6.00	54.00	110-W	16.07	4.95	4.64	57.15
Nutrena Complete Egg Ration	16.00	4.00	6.00	56.00	27-W	16.07	4.59	4.67	56.36
Nutrena Complete Egg Ration	16.00	4.00	6.00	54.00	203-S	16.72	4.26	4.51	54.51
Nutrena Complete Egg Ration	16.00	4.00	6.00	54.00	253-W	17.64	4.79	5.30	53.55
Nutrena Complete Hog Father Meal	15.00	3.00	7.00	55.00	28-W	16.24	5.82	5.43	54.16
Nutrena Complete Pullet Grower	15.00	2.50	7.00	52.00	111-W	17.47	3.97	4.85	53.98
Nutrena Chick Starter (G) Medicated	20.00	2.50	7.00	49.00	255-E	21.24	3.15	5.99	50.46
Nutrena Chick Starter	20.00	2.50	7.00	49.00	112-W	21.15	3.65	5.37	52.73
Nutrena Chick Starter	20.00	2.50	7.00	49.00	15-W	19.03	3.60	4.92	52.33
Nutrena Creep-20 Master Pig Starter	20.00	3.00	4.50	50.00	31-W	21.23	4.70	3.56	51.93
Nutrena Poultry Wormer	20.00	2.50	8.00	44.00	171-E	20.53	4.62	5.75	49.92
Nutrena Hog Wormer	15.00	2.50	6.00	55.00	114-W	17.17	4.09	4.41	59.28
Nutrena Calf Creep Feed	13.00	2.50	8.00	54.00	30-W	12.65	3.39	5.30	59.42
Complete Grower (G)	15.00	2.50	7.00	62.00	132-D	17.32	4.09	6.42	54.22
Nutrena 20% Egg Feed	20.00	4.00	6.50	48.00	131-D	21.22	4.99	7.56	46.96
Nutrena Medicated Rt.	20.00	4.00	6.00	50.00	180-E	22.76	4.87	5.83	45.99
Nutrena Sow—30	30.00	2.00	10.00	30.00	62-E	31.23	3.68	8.10	30.96
Nutrena Sow & Pig Ration	18.00	3.00	6.00	48.00	63-E	19.01	3.63	5.66	52.45
Nutrena 50 Grand Cage Egg Ration	18.00	7.00	4.00	50.00	67-E	18.74	6.76	2.97	51.24
Nutrena Complete Hog Ration	15.00	3.00	7.00	5.55	68-E	15.26	3.53	4.10	58.97

Nashville Cotton Oil Mill Corporation Nashville, Tenn.										
44% Protein Solvent Ext. Soybean Oil Meal	44.00	0.50	7.00	27.00	47-T	46.39	1.27	4.77	31.82	
41% Protein Solvent Ext. Cottonseed Meal	41.00	0.50	14.00	28.00	9-E	43.08	0.97	13.26	28.12	
Perkins Oil Company Memphis, Tennessee										
Perkins Brand 36% Protein C/S Meal, P.Q.	36.00	3.00	17.00	25.00	61-D	35.25	4.28	15.01	28.41	
Perkins Brand 36% Protein C/S Meal, P.Q.	36.00	3.00	17.00	25.00	90-S	36.11	4.12	12.74	30.29	
Perkins Brand 36% Protein C/S Meal, P.Q.	36.00	3.00	17.00	25.00	39-S	36.12	4.09	14.81	28.28	
Perkins Brand 36% Protein C/S Meal, P.Q.	36.00	3.00	17.00	25.00	84-T	36.49	4.08	16.36	26.85	
Perkins Brand 36% Protein C/S Meal, P.Q.	36.00	3.00	17.00	25.00	96-D	36.15	3.89	15.17	28.44	
Pillsbury Mills, Inc. Clinton, Iowa										
Pillsbury's Best Dairy Mixer 44	44.00	1.00	8.50	30.00	45-D	43.04	2.92	5.55	18.01	
Pillsbury Mills, Inc. Nashville, Tennessee										
Pillsbury's Best Calf Ration	19.00	2.50	9.00	48.00	142-E	18.73	3.54	6.29	50.21	
Pillsbury's Best Chick Starter	20.00	3.00	6.00	50.00	141-E	20.58	4.11	5.08	48.93	
Pillsbury's Best Chick Grower	18.00	3.00	7.00	50.00	148-E	16.41	5.19	5.01	52.53	
Pillsbury's Best Sow Ration	15.00	3.00	8.00	54.00	147-E	14.67	3.77	6.30	54.58	
Pillsbury's Best Laying Mash	20.00	3.00	7.50	45.00	149-E	23.03	4.67	5.52	45.04	
Pillsbury's Best 32% Dairy Concentrate	32.00	1.50	8.00	35.00	144-E	34.87	4.32	5.35	26.90	
Pillsbury's Best Pork Producer	14.00	3.50	6.00	56.00	145-E	14.19	4.27	4.02	57.52	
Pillsbury's Best Pig Feast	18.00	3.00	5.00	54.00	146-E	19.34	3.99	3.50	53.65	

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

Ful-O-Pep Growing Mash (G3) Medicated	19.00	3.50	8.00	45.00	38-M	19.06	7.69	6.76	45.91
Ful-O-Pep Medicated Broiler Bracer	23.00	7.00	2.50	46.00	32-E	23.41	7.07	2.52	48.09
Ful-O-Pep Broiler Pre Starter	26.00	7.00	3.00	43.00	30-E	26.21	7.25	2.32	46.53
Ful-O-Pep Super Broiler Mash	23.00	8.00	2.50	46.00	29-E	24.00	8.25	2.53	47.13
*Ful-O-Pep Hog Supplement	36.00	1.50	10.00	25.00	10-T	34.64	2.13	6.08	29.41
Ful-O-Pep Sweet 16 Dairy Feed	16.00	2.50	15.00	46.00	72-T	16.86	5.68	9.09	45.80
Ful-O-Pep Cage Layer	16.00	4.00	6.50	50.00	30-T	17.17	6.00	6.30	51.69
Ful-O-Pep Laying Mash M	20.00	3.00	8.00	45.00	29-T	20.89	6.20	7.52	44.40
Ful-O-Pep Milking Feed M	16.00	2.50	11.00	45.00	11-T	19.98	4.19	8.57	47.50
Ful-O-Pep Egg Ration	15.00	3.00	7.00	45.00	12-T	17.16	5.86	6.45	50.49
Ful-O-Pep Broiler Concentrate (A2G1) Med.	43.00	8.00	3.50	19.00	243E	43.98	10.95	2.58	21.72
Ful-O-Pep Pig Starter (KP) Med.	18.00	2.50	5.00	48.00	238-E	19.81	3.93	3.64	53.00
Ful-O-Pep Pig Grower (K) Med	16.00	3.00	5.00	48.00	237-E	16.09	3.44	4.95	57.44
Ful-O-Pep Broiler Wormer	20.00	2.50	5.00	48.00	31-E	19.30	4.20	3.90	50.25
Ralston Purina Company									
Guntersville, Alabama									
Purina Sow Chow 1	32.00	2.00	9.00	30.00	155-W	35.23	2.28	5.92	32.44
Purina Chicken Chowder	36.00	3.50	8.00	24.00	157-W	37.69	4.98	5.30	23.52
Purina Chick Growena B	17.00	3.00	7.00	48.00	154-W	18.75	3.90	4.34	55.98
Purina Pig Startena (Special) Medicated	18.00	4.00	6.00	50.00	156-W	20.43	5.73	3.05	53.15
Broiler Chow Starter (B)	26.00	8.00	4.00	40.00	110-E	26.85	4.67	3.32	48.65
Broiler Chow Finisher "B"	23.00	8.00	3.00	44.00	111-E	23.70	4.48	2.59	54.11
Purina Broiler Chow Starter (K) 3 GC-Med.	24.00	7.00	4.50	40.00	109-T	26.53	7.09	3.56	45.05
Purina Layena (Complete Ration) T	16.00	3.50	6.00	50.00	152-W	16.55	4.60	4.36	51.85
Purina Cage Layena (Complete Ration) T	16.00	3.50	5.00	50.00	153-W	17.00	5.06	3.83	53.89
Chick Growena	17.00	3.00	7.00	48.00	112-E	19.05	5.45	4.07	53.36
Purina Pullet Developer T	13.00	2.50	8.00	48.00	109-E	13.74	4.51	4.75	58.98

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

Purina Turkey Fatena	15.00	4.50	5.00	52.00	34-S	18.59	5.34	3.91	54.51
Purina Hog Chow 50 AB — Medicated	36.00	0.50	8.00	26.00	202-E	37.08	1.86	5.22	27.58
Purina Hog Fatena — Medicated	14.00	2.50	7.00	52.00	210-E	15.15	3.39	3.94	58.06
Purina Hog Fatena — 1 Medicated	14.00	2.50	7.00	52.00	156-E	14.19	3.66	2.90	60.29
Purina Hog Chow AB — Medicated	36.00	0.50	8.00	26.00	147-R	37.71	2.30	5.45	26.61
Purina Hog Chow 50 AB — Medicated	36.00	0.50	8.00	26.00	42-M	39.33	2.34	5.60	27.40
Purina Hog Chow 50 AB — Medicated	36.83	8.00	8.00	26.00	34-H	36.83	2.06	5.62	27.63
Purina Hog Chow 50 AB — Medicated	36.00	0.50	8.00	26.00	84-H	37.42	2.13	7.28	30.88
Purina Hog Chow 50 AB — Medicated	36.00	0.50	8.00	26.00	49-T	35.51	1.60	6.13	28.18
Purina Hog Chow 50 AB — Medicated	36.00	0.50	8.00	26.00	55-T	38.40	2.40	5.37	26.94
Purina Hog Chow 50 AB — Medicated	36.00	0.50	8.00	26.00	209-S	35.54	2.03	5.84	28.65
Purina Hog Fatena 1 Medicated	14.00	2.50	7.00	52.00	229-W	14.99	4.31	3.04	58.42
Purina Super Chick Startena	23.00	4.50	4.00	47.00	195-E	23.08	5.39	3.70	48.96
Purina Super Chick Startena	23.00	4.50	4.00	47.00	160-E	22.12	6.25	3.69	48.31
Purina Super Chick Startena Medicated	23.00	4.50	4.00	47.00	197-W	23.06	4.90	3.34	49.61
Purina Super Game Bird Startena	30.00	3.00	6.50	36.00	71-W	32.12	3.61	4.35	41.06
Purina Super Chick Startena	23.00	4.50	4.00	47.00	88-W	23.11	5.86	3.14	49.04
Purina Chick Growena	17.00	3.00	7.00	48.00	87-W	16.40	4.79	4.34	55.77
Purina Super Chick Startena (Medicated)	23.00	4.50	4.00	47.00	224-W	23.05	4.91	3.31	51.68
Purina Super Chick Startena	23.00	4.50	4.00	47.00	68-W	22.76	5.76	4.15	49.33
Purina Eggena	16.00	3.00	7.00	42.00	157-E	16.22	5.59	5.32	42.00
Purina Eggena	16.00	3.00	7.00	42.00	197-E	17.02	5.13	6.65	53.09
Purina Eggena T	16.00	3.00	7.00	42.00	90-W	16.70	4.46	5.58	52.20
Purina Eggena	16.00	3.00	7.00	42.00	120-W	16.21	4.89	5.12	52.13
Purina Cage Layena (Complete Ration)	16.00	3.50	5.00	50.00	154-E	16.23	5.78	4.22	54.13
Purina Layena Complete Ration	16.00	3.50	6.00	50.00	152-E	16.55	4.60	4.31	53.15
Purina Cage Layena	16.00	3.50	5.00	50.00	42-E	16.87	5.49	3.46	55.85
Purina Super Cage Layena (Complete Ration)	17.00	7.00	4.50	50.00	207-E	17.49	7.19	3.28	50.28
Purina Layena (Complete Ration)	16.00	3.50	6.00	50.00	208-E	16.07	4.70	3.91	53.70
Purina Super Cage Layena	17.00	7.00	4.50	50.00	62-W	17.96	7.94	3.41	59.42
Purina Cage Chowder	36.00	5.00	8.00	24.00	96-H	38.39	6.37	6.64	25.20

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %		Crude Protein %	Crude Fat %	Crude Fiber %	Nitrogen Free Extract %
Purina Cage Layena (Complete Ration)	16.00	3.50	5.00	50.00	31-S	16.71	5.39	4.15	54.25
Purina Layena Complete Ration	16.00	3.50	6.00	50.00	32-S	16.71	4.39	4.51	54.58
Purina Layena Complete Ration	16.00	3.50	6.00	50.00	225-W	16.08	4.69	3.95	53.38
Purina Layena Complete Ration	16.00	3.50	6.00	50.00	69-W	15.16	4.78	4.86	55.64
Purina Broiler Chow Starter (B) 3NC Medicated	26.00	8.00	4.00	40.00	200-E	27.41	9.15	3.23	42.12
Purina Broiler Chow Finisher B—Medicated	23.00	8.00	3.00	44.00	211-E	23.98	9.30	2.57	45.93
Purina Broiler Chow 3NC—Medicated	18.00	3.00	7.00	46.00	149-R	17.49	4.75	4.04	56.81
Purina Broiler Chow Starter B 3 NC Medicated	26.00	8.00	4.00	40.00	148-R	27.39	9.07	3.74	42.05
Purina Broiler Chow Finisher—Medicated	20.00	4.50	3.00	50.00	125-R	23.08	6.75	2.55	48.19
Purina Broiler Chow Starter 3 NC Medicated	23.00	4.50	4.00	47.00	124-W	25.85	6.88	3.19	45.40
Purina Broiler Chow Finisher B Medicated	23.00	8.00	3.50	44.00	81-H	23.34	8.18	2.97	48.49
Purina Broiler Chow Finisher B 3 GC—Medicated	23.00	8.00	3.50	44.00	80-H	22.77	8.63	2.91	49.17
Purina Broiler Chow B GC Medicated	18.00	3.00	7.00	46.00	89-T	18.09	4.12	4.32	55.62
Purina Broiler Chow Starter B 3 NC—Medicated	26.00	8.00	4.00	40.00	66-T	27.09	8.66	3.52	43.53
Purina Broiler Chow Finisher B 3 NC—Medicated	23.00	8.00	3.00	44.00	67-T	23.50	10.40	2.43	46.98
Purina Broiler Chow—Medicated	18.00	3.00	7.00	46.00	29-S	18.88	3.91	5.46	54.64
Purina Broiler Chow Starter 3 NC Medicated	23.00	4.50	4.00	47.00	227-W	24.91	6.46	3.31	46.71
Purina Chick Growena	17.00	3.00	7.00	48.00	151-E	17.64	4.27	4.24	55.31
Purina Chick Growena	17.00	3.00	7.00	48.00	43-E	17.02	4.56	4.75	55.97
Purina Chick Chow (Fine)	10.00	2.00	4.00	65.00	191-E	9.68	2.55	1.60	71.45
Purina Chicken Chowder	36.00	3.50	8.00	24.00	204-E	38.90	3.67	5.95	20.74
Purina Chick Growena NC—Medicated	17.00	3.00	7.00	48.00	206-E	17.17	4.58	4.25	55.42

Purina Chick Growena -----	17.00	3.00	7.00	48.00	196-W	17.94	5.55	4.56	54.07
Purina Chick Chow -----	10.00	2.00	4.00	65.00	64-W	10.00	2.67	1.64	71.50
Purina Chick Growena B -----	17.00	3.00	7.00	48.00	65-W	18.89	4.95	4.32	55.52
Purina Chick Growena -----	17.00	3.00	7.00	48.00	92-H	17.34	3.83	4.58	57.03
Purina Super Chick Startena—Medicated -----	20.00	4.50	4.00	47.00	94-H	22.49	6.25	3.57	51.24
Purina Chicken Chowder -----	36.00	5.50	8.00	24.00	97-H	36.25	6.11	5.40	22.15
Purina Chick Growena -----	17.00	3.00	7.00	48.00	33-S	18.28	5.03	4.81	54.07
Purina Chick Growena -----	17.00	3.00	7.00	48.00	226-W	16.70	4.04	4.22	56.84
*Purina Poultry Booster Chow T -----	24.00	2.50	8.00	38.00	91-W	22.46	4.58	5.37	46.59
Purina Poultry Booster Chow -----	24.00	2.50	8.00	38.00	116-W	23.04	4.70	4.90	44.86
Purina Calf Startena I -----	19.50	2.50	8.50	43.00	189-W	19.62	3.85	6.75	50.79
Purina Calf Startena T -----	19.50	2.50	8.50	43.00	66-W	20.30	4.11	6.91	49.28
Purina Calf Startena -----	19.50	3.00	8.00	43.00	95-H	20.29	4.14	7.31	50.07
Purina Calf Starter -----	19.50	2.50	8.50	43.00	121-W	20.45	4.09	6.86	59.01
Purina Omolene 1 -----	10.00	3.00	9.00	56.00	228-W	10.76	4.17	7.43	59.01
*Purina Lay Chow T -----	21.00	3.50	6.50	44.00	58-T	19.96	4.35	4.39	49.54
Purina Breeder Layena Complete Ration -----	16.00	4.00	4.50	50.00	119-W	17.77	5.22	4.06	52.33
Purina Breeder Lay Chow -----	22.00	4.00	5.00	46.00	30-S	21.84	5.32	4.60	48.67
Purina Sow Chow -----	32.00	2.00	9.00	30.00	57-T	33.08	3.67	5.63	32.13
Purina Pig Startena Special—Medicated -----	18.00	4.50	5.00	50.00	56-T	19.98	5.76	2.63	52.46
Purina Startena Special—Medicated -----	18.00	4.00	6.00	50.00	35-H	20.31	5.11	2.86	53.64
Purina Pig Startena Special—Medicated -----	18.00	4.50	5.00	50.00	83-H	19.53	2.53	3.04	55.83
Purina Complete Sow & Pig Chow -----	16.00	2.50	6.00	50.00	85-H	16.07	2.65	4.44	52.35
Purina Baby Pig Chow—Medicated -----	18.00	5.00	3.00	50.00	93-H	18.44	7.32	2.63	58.94
Purina Cow Concentrate 1 -----	32.00	1.50	10.00	32.00	122-W	34.91	4.24	5.70	28.28
Purina Pullet Developer T -----	13.00	2.50	8.00	48.00	72-W	15.60	4.64	6.69	54.94
Purina Pullet Developer T -----	13.00	2.50	8.00	48.00	89-W	15.29	5.35	5.37	56.10
Purina Game Bird Breeder Layena -----	20.00	3.00	7.00	47.00	70-W	21.23	3.71	4.87	49.40
Purina Game Bird Growena -----	20.00	3.00	7.00	48.00	73-W	21.17	4.42	5.41	50.61
Purina Dairy Chow 16% -----	16.00	2.50	15.00	40.00	79-D	18.58	3.44	11.65	44.41
Purina D & F Chow -----	12.50	2.50	11.00	48.00	78-D	13.90	3.96	8.36	52.10

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Purina Sow Chow I -----	32.00	2.00	9.00	30.00	41-M	34.95	2.21	6.18	33.23
Purina Cow Chow I -----	18.00	3.00	10.00	48.00	40-M	19.82	3.36	6.19	45.94
Purina Omolene I -----	10.00	3.00	9.00	56.00	190-W	10.92	3.79	7.60	57.75
Purina Scratch Feed -----	9.00	2.50	3.50	68.00	188-W	8.58	3.15	2.17	70.66
Purina Pullet Developer -----	13.00	2.50	8.00	48.00	118-W	14.81	4.94	5.78	54.81
Purina Rabbit Chow -----	15.00	2.00	18.00	46.00	63-W	16.39	3.73	13.11	48.62
Purina Dog Chow -----	24.00	7.00	5.00	44.00	67-W	26.53	8.22	4.32	42.19
Purina Milk Chow I -----	16.00	2.50	10.00	48.00	193-W	15.92	3.71	7.73	50.60
Purina Hog Fatena I—Medicated -----	14.00	2.50	7.00	52.00	192-W	14.35	3.27	2.87	59.60
Purina Pig Startena Special I—Medicated -----	18.00	4.00	6.00	50.00	191-W	20.76	5.57	3.08	52.83
Purina Poultry Booster Chow -----	24.00	2.50	8.00	38.00	198-W	24.27	5.12	4.99	48.89
Purina Pig Startena Special—Medicated -----	18.00	4.00	6.00	50.00	126-W	20.27	5.38	2.66	53.50
Purina Broiler Chow Finisher B—Medicated 3NC -----	23.00	8.00	3.00	44.00	125-W	28.08	8.31	2.83	45.06
Purina Cow Chow -----	18.00	3.00	10.00	48.00	93-D	18.27	3.56	7.58	47.86
Purina D & F Chow -----	12.50	2.50	11.00	48.00	92-D	15.16	3.80	9.32	49.98
Purina Hog Chow 50 AB—Medicated -----	36.00	0.50	8.00	26.00	112-D	37.08	2.02	5.87	27.65
*Purina Sow Chow I -----	32.00	2.00	9.00	30.00	203-E	29.93	3.27	6.84	36.30
Purina Pig Startena Special—Medicated -----	18.00	4.00	6.00	50.00	155-E	19.04	5.43	3.30	53.33
Purina 18% Dairy Chow F -----	18.00	2.50	15.00	40.00	159-E	18.41	2.99	12.63	45.09
Purina D & F Chow I -----	12.50	2.50	11.00	48.00	158-E	12.64	3.41	9.20	51.34
Purina 18% Dairy Chow F -----	18.00	2.50	15.00	40.00	212-E	19.81	2.69	13.80	44.02
Purina Pig Startena Special I—Medicated -----	18.00	4.00	6.00	50.00	209-E	19.67	5.01	2.76	52.28

COMMERCIAL FEEDING STUFFS

Purina Pullet Developer NC—Medicated	13.00	2.50	8.00	48.00	205-E	14.83	4.19	5.45	57.79
Purina D & F Chow I	12.50	2.50	11.00	48.00	214-E	13.27	2.77	9.53	53.22
Purina Fat Calf Chow I	14.00	2.50	8.00	48.00	213-E	15.92	2.72	6.47	53.57
Purina Game Bird Growena	20.00	3.00	7.00	48.00	193-E	22.12	3.14	5.16	48.79
Purina Game Bird Breeder Layena	20.00	3.00	7.00	47.00	194-E	21.82	3.45	5.72	46.38
Purina Poultry Booster Chow	24.00	2.50	8.00	38.00	198-E	23.68	5.05	5.12	44.46
Purina Bulk Las I	10.00	1.50	15.00	45.00	199-E	10.76	2.46	11.68	47.95
Purina Omolene	10.00	3.00	9.00	56.00	201-E	10.29	4.32	7.11	58.47
Purina Pig Starter Special	18.00	4.00	6.00	50.00	50-E	20.61	4.93	3.00	58.25
Richland Mills									
Pulaski, Tennessee									
Milk Maker 16% Dairy Feed	16.00	3.00	15.00	48.00	59-T	17.49	4.36	11.54	43.06
Riverside Milling Co.									
Rt. 3, Heflin, Ala.									
Check-R-Mix Broiler Finisher L—Medicated	20.00	4.50	3.00	52.00	10-W	20.00	5.97	2.77	62.16
Riverside Oil Mill									
Marks, Mississippi									
44% Protein Soybean Oil Meal, S. Ext.	44.00	0.50	7.00	29.00	88-S	45.28	1.51	5.67	29.42
44% Protein Soybean Oil Meal, S.E., P.Q.	44.00	0.50	7.00	29.00	93-S	44.54	1.35	6.38	30.05
Expello Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	25.00	28-S	41.80	3.69	12.26	26.53
Expello Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	25.00	122-S	41.14	4.78	12.32	26.75
Expello Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	25.00	181-S	41.83	3.50	11.47	27.16
Solvent Extracted 44% Soybean Meal	44.00	0.50	7.00	29.00	52-H	46.72	1.72	5.60	28.69
*Expello Brand 41% Protein C/S Meal, P.Q.	41.00	3.00	14.00	25.00	141-D	38.68	3.95	13.77	28.03

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Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Rome Oil Mill Rome, Georgia									
#Etowah Brand 36% Protein C/S Meal, P.Q. -----	36.00	3.00	17.00	25.00	13-E	35.55	4.67	19.51	26.93
S A R S, Inc. Loxley, Alabama									
SARS Baldwin Brand 50% Protein Meat Meal -----	50.00	7.00	2.50	1.00	91-S	53.99	13.13	1.70	.88
SARS Baldwin Brand 50% Protein Meat Meal -----	50.00	7.00	2.50	1.00	149-D	51.94	13.54	2.19	1.39
The Scott County Milling Co. Sikeston, Missouri									
Gristo Steel Cut Chops -----	8.50	3.00	3.00	70.00	151-D	10.30	3.24	1.87	69.31
Gristo Big Eight Feed -----	9.00	2.00	15.00	60.00	41-D	9.85	3.55	5.59	60.92
Gristo Grain Sweet Feed -----	9.00	3.00	10.00	60.00	40-D	8.58	3.83	3.56	65.12
Gristo All Mash Crumbles -----	16.00	3.00	6.50	47.00	25-D	16.08	3.98	4.60	53.27
Gristo All Mash Egg Crumbles -----	16.00	3.00	6.50	47.00	159-D	16.09	3.22	4.51	57.50
Gristo Cage Complete Egg Crumbles -----	18.00	3.00	5.00	50.00	160-D	18.27	3.17	4.59	54.32
Gristo Gray Wheat Shorts with Ground Wheat Screenings not exceeding Mill Run -----	15.50	3.50	6.00	55.00	165-D	15.62	3.57	6.09	59.10

Sessions Oil Mills									
Enterprise, Alabama									
Sesco 45% Protein Peanut Feed	45.00	1.00	10.00	23.00	54-D	43.04	3.48	14.33	27.77
*Sesco 45% Protein Peanut Feed	45.00	1.00	16.00	23.00	77-M	42.72	2.42	14.78	28.11
Simmons Milling Co.									
Forrest Home, Alabama									
Simmons Best Broiler Finisher—Medicated	20.00	3.50	4.50	51.00	89-M	20.30	5.81	3.41	52.90
Ground Whole Snap Corn with Molasses	7.50	3.00	11.00	60.00	90-M	8.12	4.38	6.23	63.85
Simmons Best Broiler Starter—Medicated	22.50	3.50	4.50	48.00	91-M	22.75	6.86	3.64	48.60
James' Best 40% Hog Supplement	40.00	2.00	8.00	21.00	92-M	39.56	3.83	6.15	26.50
Ground Peanut Vine Hay with Molasses	7.50	1.50	36.00	32.00	87-M	8.28	3.47	36.00	32.00
Simmons Best Broiler Finisher—Medicated	20.00	3.50	4.50	51.00	86-M	20.59	4.67	3.34	52.72
Slocomb Milling Co.									
Slocomb, Alabama									
Smith Farm's Hog Fattener	14.00	3.50	6.00	58.00	40-H	13.27	4.18	2.10	62.82
Raymond Smith Milling Co.									
Eufaula, Alabama									
Farmer's Choice Dairy Feed	16.00	2.50	11.00	48.00	50-M	15.15	3.20	9.95	52.61
40% Hog Concentrate	40.00	2.00	8.00	21.00	49-M	39.02	3.43	6.88	22.81
The Southern Cotton Oil Co.									
Columbus, Mississippi									
Seo-Co 41% Protein Cottonseed Meal, P.Q.	36.00	3.00	14.00	25.00	23-S	42.10	6.06	10.79	27.61

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
The Southern Cotton Oil Co. Decatur, Alabama									
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	205-S	43.05	7.11	11.37	24.13
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	27-E	42.05	5.93	14.63	25.63
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	23-E	39.96	6.41	14.61	23.96
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	77-R	39.95	5.68	14.86	25.41
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	122-R	36.00	3.00	17.00	25.00
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	186-E	37.69	6.43	16.69	24.72
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	7-E	40.83	5.59	14.26	25.04
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	137-E	37.97	5.87	16.37	25.07
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	48-W	39.26	6.08	15.56	24.37
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	80-R	36.45	5.68	16.72	26.92
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	90-R	39.02	7.10	13.87	27.74
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	89-R	40.50	7.19	14.01	25.37
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	48-R	39.24	5.03	13.87	27.61
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	46-R	36.42	5.39	13.71	30.60
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	152-S	39.22	5.97	13.62	27.19
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	45-T	36.75	5.35	15.89	27.35
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	61-T	36.20	5.41	17.12	27.32
*Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	193-R	34.34	5.34	17.23	28.21
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	174-R	37.10	6.31	16.65	25.63

COMMERCIAL FEEDING STUFFS

Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	20-R	38.49	6.27	13.84	28.06
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	18-R	37.45	7.08	13.70	27.87
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	11-R	37.40	5.69	15.35	28.31
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	10-R	40.86	5.60	14.39	25.60
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	9-R	39.96	5.15	12.44	29.45
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	5-R	37.71	6.45	14.53	28.55
#Sco-Co 30%	Protein Cottonseed Feed	30.00	4.00	18.00	32.00	24-E	30.59	4.92	20.61	29.11
Sco-Co 30%	Protein Cottonseed Feed	30.00	4.00	18.00	32.00	49-R	30.00	4.75	18.15	32.32
#*Sco-Co 30%	Protein Cottonseed Feed	30.00	4.00	18.00	32.00	52-R	27.79	4.09	22.18	31.26
#Sco-Co 30%	Protein Cottonseed Feed	30.00	4.00	18.00	32.00	175-R	32.10	5.17	19.51	28.68
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	33-R	40.23	6.75	14.25	24.11
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	20-E	41.11	6.40	12.52	25.67
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	3-E	41.11	5.65	12.05	28.38
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	4-E	41.19	5.73	11.44	28.76
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	78-R	44.25	6.38	11.49	24.18
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	88-R	43.04	8.88	11.73	22.82
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	87-R	41.15	6.97	13.81	23.82
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	86-R	40.91	7.12	14.08	23.90
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	47-R	42.07	5.91	12.26	25.54
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	6-R	42.33	6.60	11.40	26.57
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	4-R	42.10	7.52	10.53	27.72
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	7-R	41.18	3.27	11.81	30.83
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	8-R	41.19	5.40	11.34	29.18
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	102-R	42.09	6.57	12.55	24.01
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	173-R	42.01	6.76	12.59	24.38
*Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	48-T	39.26	6.74	14.02	26.07
Sco-Co 41%	Protein Cottonseed Meal, P.Q.	41.00	3.00	14.00	25.00	46-T	41.10	6.89	14.00	24.39

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Southern Cotton Oil Division Wesson Oil & Snowdrift Co., Inc. Greenville, Mississippi									
Sco-Co 36% Protein Cottonseed Meal -----	36.00	2.00	17.00	25.00	19-D	39.02	4.60	15.68	27.29
Sco-Co 36% Protein Cottonseed Meal -----	36.00	2.00	17.00	25.00	53-H	37.42	4.55	16.66	27.72
Sco-Co 36% Protein Cottonseed Meal -----	36.00	2.00	17.00	25.00	158-S	34.57	5.17	19.23	23.32
Sco-Co 36% Protein Cottonseed Meal -----	36.00	2.00	17.00	25.00	175-S	35.80	4.51	17.70	27.86
Sco-Co 36% Protein Cottonseed Meal -----	36.00	2.00	17.00	25.00	215-S	35.87	5.31	17.41	26.89
Sco-Co 41% Protein Sol. Ext. C/S Meal -----	41.00	2.00	14.00	25.00	48-S	40.12	2.72	14.71	28.82
Sco-Co 44% Protein Sol. Ext. Soybean Meal -----	44.00	0.50	7.00	27.00	99-H	46.81	1.05	5.57	29.27
44% Protein Sol. Ext. Soybean Meal -----	44.00	0.50	7.00	27.00	45-H	46.76	0.79	5.28	28.68
The Southern Cotton Oil Co. Huntsville, Alabama									
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	32-D	37.10	3.12	16.91	27.44
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	5-E	37.06	3.28	15.87	29.47
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	1-E	36.46	3.53	17.96	26.58
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	22-E	40.57	4.05	14.30	25.21
*Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	6-E	39.57	3.25	14.26	27.35
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	41-E	41.11	3.31	12.30	28.28

COMMERCIAL FEEDING STUFFS

#Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	217-E	41.49	3.25	15.17	24.89
The Southern Cotton Oil Co. LaFayette, Alabama									
ABC 40% Hog Supplement -----	40.00	3.00	12.00	30.00	221-W	41.16	3.01	6.20	23.84
ABC Sweet Feed -----	9.00	2.00	15.00	45.00	222-W	8.58	3.68	10.51	52.88
Dairyland Special Dairy Feed -----	16.00	3.00	15.00	45.00	223-W	16.53	3.88	9.41	44.75
The Southern Cotton Oil Co. Montgomery, Alabama									
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	89-S	36.79	5.56	14.77	28.18
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	154-S	36.46	5.98	15.71	26.94
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	161-S	36.54	5.64	16.13	25.92
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	153-S	36.79	5.65	16.26	26.20
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	184-W	37.09	4.92	16.03	26.98
Sco-Co Brand 36% Protein C/S Meal, P.Q. -----	36.00	3.00	17.00	25.00	171-W	35.83	5.92	16.54	27.45
*Sco-Co 36% Protein Cottonseed Pellets, P.Q. -----	36.00	3.00	17.00	25.00	23-H	34.95	5.32	15.40	27.94
Sco-Co 36% Protein Cottonseed Pellets, P.Q. -----	36.00	3.00	17.00	25.00	54-H	36.16	5.51	16.77	26.39
Sco-Co 45% Expeller Soybean Meal -----	45.00	3.50	7.00		148-D	45.54	4.53	6.13	27.60
*Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	93-M	39.33	6.77	11.67	28.74
The Southern Cotton Oil Co. Sheffield, Alabama									
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	28-T	35.84	4.72	14.10	30.69
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	27-T	37.08	4.44	13.47	30.15
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	152-R	41.77	5.96	11.20	26.85
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	153-R	41.49	6.10	11.23	27.59
*Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	92-R	37.80	5.69	14.62	26.94

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
*Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	93-R	38.43	5.90	14.19	26.32
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	22-R	41.74	5.89	11.09	26.79
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	26-R	41.77	6.06	11.30	27.03
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	25-R	41.79	6.11	11.17	27.12
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	24-R	40.54	5.83	12.26	27.30
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	23-R	42.07	5.91	11.13	26.72
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	27-R	40.27	5.47	12.35	27.47
Sco-Co 41% Protein Cottonseed Meal, P. Q. -----	41.00	3.00	14.00	25.00	94-R	42.07	5.97	11.82	25.03
*#Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	25-T	37.07	5.40	15.18	28.63
*Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	26-T	39.26	5.72	14.16	25.54
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	180-R	41.16	5.94	11.47	25.64
*Sco-Co 41% Protein Cottonseed Meal -----	41.00	3.00	14.00	25.00	165-R	37.43	6.15	13.74	25.88
The Southern Cotton Oil Co.									
Tuscaloosa, Alabama									
*Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	163-D	39.57	4.05	13.15	30.02
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	242-S	35.29	5.65	13.76	31.49
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	241-S	36.75	5.29	13.40	30.81
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	243-S	36.18	5.57	13.30	31.11
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	244-S	36.48	5.34	12.69	30.80

COMMERCIAL FEEDING STUFFS

Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	74-S	35.54	3.71	17.98	29.61
#Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	73-S	35.18	4.05	18.02	29.78
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	70-S	36.16	3.50	16.65	29.83
#*Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	72-S	34.93	3.42	19.23	29.69
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	6-S	37.07	5.74	14.91	29.46
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	5-S	36.82	4.98	14.47	30.28
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	21-S	35.57	3.78	17.19	30.38
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	19-S	36.56	3.86	16.32	30.45
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	20-S	36.54	3.91	15.59	30.73
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	77-S	37.36	4.17	16.74	28.53
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	150-S	39.26	4.85	16.70	27.97
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	148-S	36.13	4.25	17.32	30.87
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	147-S	37.99	4.17	17.72	28.07
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	162-S	39.22	3.69	16.84	27.15
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	145-S	37.73	4.03	17.70	27.13
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	199-S	38.39	4.83	15.62	29.75
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	185-S	39.96	4.82	15.65	27.17
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	186-S	37.69	5.31	16.01	27.42
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	187-S	37.79	4.36	16.27	28.52
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	189-S	36.13	5.23	17.19	29.27
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	191-S	35.84	5.25	16.83	30.28
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	190-S	37.68	4.12	16.53	29.48
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	192-S	38.07	4.87	15.91	29.54
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	193-S	38.67	4.78	15.20	29.38
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	196-S	37.40	4.70	13.22	33.01
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	184-S	36.20	3.78	17.18	30.48
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	235-S	38.08	4.17	14.77	31.06
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	236-S	35.89	5.28	17.35	29.72
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	61-S	36.09	3.57	16.69	30.39
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	62-S	37.13	4.67	16.02	28.58
Sco-Co 36%	Protein Cottonseed Meal, P.Q.	36.00	3.00	17.00	25.00	65-S	35.51	4.15	16.12	30.44

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES					Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
					% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	67-S	36.56	3.83	17.14	30.35				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	69-S	36.49	3.74	16.42	30.17				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	76-S	38.60	3.87	16.81	27.79				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	18-S	35.20	3.77	16.10	32.28				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	26-S	36.12	4.45	15.91	30.28				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	3-S	36.80	4.74	14.62	30.09				
*Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	66-S	33.91	3.49	18.90	30.94				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	71-S	36.65	3.85	16.00	29.88				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	1-S	36.75	4.78	14.52	30.88				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	22-S	35.56	3.90	17.17	30.38				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	17-S	35.59	3.87	17.05	31.03				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	16-S	36.21	4.65	15.96	29.77				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	15-S	37.41	4.83	14.47	29.15				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	14-S	36.75	4.99	15.73	29.75				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	13-S	37.43	5.08	14.70	29.15				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	12-S	37.43	4.29	14.90	29.39				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	11-S	36.44	4.15	15.47	30.43				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	10-S	36.15	4.91	14.93	31.15				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	9-S	36.22	5.11	15.44	29.85				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	8-S	35.55	4.75	16.16	30.50				
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	7-S	36.49	4.94	15.73	30.60				
*Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	64-S	34.91	4.22	16.45	29.76				

Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	75-S	37.71	4.07	16.24	29.06
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	149-S	37.77	5.19	16.70	27.92
#*Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	68-S	34.37	3.21	19.04	31.10
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	137-S	38.10	6.45	16.12	27.99
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	141-S	37.99	4.73	16.93	28.62
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	144-S	36.18	4.42	17.08	29.36
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	143-S	36.13	3.85	17.03	29.85
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	142-S	37.77	3.79	16.66	28.30
Sco-Co 36% Protein Cottonseed Meal, P.Q. -----	36.00	3.00	17.00	25.00	146-S	36.50	4.37	17.33	29.80
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	2-S	42.98	5.61	10.34	28.16
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	234-S	44.91	5.96	12.00	26.52
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	231-S	42.71	4.80	12.41	28.52
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	232-S	42.67	4.91	12.14	28.92
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	194-S	44.85	4.90	12.39	28.57
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	195-S	45.07	5.06	11.80	28.01
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	78-S	42.01	3.55	14.78	28.46
Sco-Co 41% Protein Cottonseed Pellets, P.Q. -----	41.00	3.00	14.00	25.00	24-S	42.14	5.20	10.87	28.47
Sco-Co 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	14.00	25.00	245-S	41.20	5.09	9.54	30.84
Southland Cotton Oil Co.									
Jackson, Mississippi									
44% Protein Solvent Ext. Soybean Oil Meal -----	44.00	0.50	7.00	27.00	216-S	46.70	1.36	5.07	26.39
44% Protein Solvent Ext. Soybean Oil Meal -----	44.00	0.50	7.00	27.00	50-D	43.37	1.91	5.41	28.81
Spearman Brewing Co.									
Pensacola, Florida									
Ace High Dried Brewers Grain -----	22.00	6.00	18.00		135-D	23.71	6.21	14.91	41.74
Dried Brewers Grain -----	22.00	6.00	18.00		140-D	23.73	6.14	14.97	39.45
Brewers Grain -----	26.00	5.00	18.00		107-D	25.58	6.30	14.34	41.77

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Sulligent Cotton Oil Co. Sulligent, Alabama									
Capt'n Bill Brand 41% Protein C.S. Meal, P.Q. -----	41.00	6.00	13.00	25.00	201-R	42.09	8.52	9.59	24.46
H.T.O. 36% Protein Cottonseed Meal, P.Q. -----	36.00	5.50	16.00	27.00	202-R	39.57	7.64	12.97	23.84
V.C.P. 20% Protein Cottonseed Feed -----	20.00	2.50	28.00	24.00	203-R	36.21	6.67	16.89	24.43
Capt'n Bill 41% Protein Cottonseed Meal, P.Q. -----	41.00	6.00	13.00	25.00	204-R	42.97	8.17	9.80	23.02
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	95-R	41.50	7.98	11.21	24.38
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	98-R	44.34	7.26	9.93	25.70
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	38-R	45.07	7.02	8.00	24.14
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	68-R	42.99	7.17	10.39	24.27
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	36-R	45.56	7.46	9.24	23.05
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	28-R	44.22	7.41	10.38	22.55
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	34-R	44.95	7.43	10.28	22.23
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	156-R	43.97	7.17	9.28	24.34
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	154-R	44.33	7.18	8.40	24.61
Capt'n Bill 41% Protein C/S Meal, P.Q. -----	41.00	6.00	13.00	25.00	161-R	44.03	7.19	8.85	24.33
H.T.O. 36% Protein C/S Meal, P.Q. -----	36.00	5.50	16.00	27.00	155-R	39.42	6.36	12.94	26.92
H.T.O. 36% Protein C/S Meal, P.Q. -----	36.00	5.50	16.00	27.00	162-R	37.71	6.50	14.15	25.35
H.T.O. 36% Protein C/S Meal, P.Q. -----	36.00	5.50	16.00	27.00	29-R	37.79	6.29	14.30	27.05
H.T.O. 36% Protein C/S Meal, P.Q. -----	36.00	5.50	16.00	27.00	31-R	44.81	7.48	8.44	24.23
H.T.O. 36% Protein C/S Meal, P.Q. -----	36.00	5.50	16.00	27.00	37-R	45.77	7.64	9.04	22.76

H.T.O. 36% Protein C/S Meal, P.Q. -----	36.00	5.50	16.00	27.00	69-R	44.87	7.35	8.13	24.70
H.T.O. 36% Protein C/S Meal, P.Q. -----	36.00	5.50	16.00	27.00	96-R	39.01	6.36	14.47	24.92
V.C.P. 25% Protein Cottonseed Feed -----	25.00	2.50	28.00	34.00	97-R	27.11	3.84	22.01	32.64
V.C.P. 25% Protein Cottonseed Feed -----	25.00	2.50	28.00	34.00	33-R	33.00	6.12	19.08	27.61
V.C.P. 25% Protein Cottonseed Feed -----	25.00	2.50	28.00	34.00	30-R	29.82	4.76	20.94	30.05
V.C.P. 20% Protein Cottonseed Feed -----	20.00	2.50	28.00	34.00	163-R	28.33	4.93	19.99	32.33
Sunshine Mills, Inc.									
Red Bay, Alabama									
Sunshine Broiler Mash Starter -----	23.00	4.00	2.60	51.00	16-T	23.35	6.13	3.07	47.92
Sunshine Pullet Grower or Layer Starter -----	18.00	3.00	6.00	50.00	71-T	18.74	4.45	3.98	48.82
Sunshine Laying Mash -----	17.00	4.50	3.50	57.00	70-T	20.00	5.77	2.31	52.23
Sunshine Broiler Mash Finisher -----	19.50	4.00	2.70	55.00	69-T	21.19	5.58	2.27	51.85
Sunshine Broiler Mash Starter -----	23.00	4.00	2.60	51.00	68-T	23.40	6.18	2.17	49.40
Sunshine Broiler Starter -----	23.00	4.00	2.60	51.00	117-T	23.40	6.70	2.41	49.50
Sunshine Laying Mash -----	17.00	3.50	4.50	57.00	115-T	16.56	4.55	2.36	59.88
Sunshine Broiler Starter -----	23.00	4.00	2.60	51.00	116-T	22.16	6.25	2.55	51.46
Sunshine Laying Mash -----	17.00	4.50	3.50	57.00	15-T	16.40	4.83	2.18	56.11
Sunshine Broiler Mash Finisher -----	19.50	4.00	2.70	55.00	14-T	19.96	5.82	2.11	51.60
Sunshine Laying Mash -----	17.00	4.50	3.50	57.00	99-R	16.54	4.56	2.34	57.03
Sunshine Broiler Mash -----	23.00	4.00	2.60	51.00	100-R	22.18	5.75	2.68	49.76
Super Broiler Company									
Jasper, Alabama									
Broiler Finisher -----	20.00	5.00	3.75	52.00	159-R	20.91	5.52	2.46	52.06
Swift & Company									
Augusta, Georgia									
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	3.00	13.00	22.00	14-E	40.48	4.63	12.69	28.23

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Swift & Company Birmingham, Alabama									
44% Soybean Oil Meal	44.00				36-S	45.86	1.14	5.70	29.54
Swift & Company Chicago, Illinois									
Swift's Complete Poultry Grower	15.00	5.00	7.00	50.00	147-W	17.62	6.92	5.97	49.64
Swift's Wire & Cage Mash	18.00	5.50	7.50	45.00	134-W	17.47	6.68	5.95	49.29
Milko Brand 16% Dairy Feed	16.00	3.00	15.00	40.00	138-W	15.60	3.85	14.06	45.72
Swift's Horse & Mule Feed	10.50	2.00	9.00	41.00	137-W	11.24	4.38	7.56	56.96
Swift's Hog Grower	16.00	5.00	6.50	50.00	136-W	17.47	5.69	6.40	51.96
Swift's Complete Laying Ration	16.00	5.50	7.50	52.00	135-W	17.46	6.28	5.51	57.78
Swift's 36% Protein Cottonseed Meal, P.Q.	36.00	2.50	16.00	25.00	2-W	36.16	3.28	17.55	27.68
Swift's Pow-R-Pac Complete Poultry Breeder	17.00	6.00	7.00	51.00	148-W	17.64	6.57	5.10	50.76
Swift's Poultry Snacks	20.00	5.50	6.00	49.00	149-W	20.86	6.00	5.45	47.46
Swift's Rabbit Ration (Pellets)	16.00	2.00	20.00	43.00	150-W	18.56	3.76	13.29	45.20
Swift's Sow-Pig Concentrate	35.00	4.00	8.50	26.50	127-D	35.28	4.93	7.19	26.63
Swift's Pig Concentrate Pow-R-Pac	35.00	3.00	7.00	23.50	128-D	34.35	4.11	6.91	28.17
Swift's Meat & Bone Scraps	50.00	8.00	3.00		69-M	50.21	2.14	1.55	
Swift's Broiler Concentrate N.	40.00	9.00	6.00	20.00	182-E	41.77	9.08	4.65	19.85

COMMERCIAL FEEDING STUFFS

Swift's Broiler Finisher Conc. N. Med -----	38.00	8.50	7.00	22.00	184-E	38.93	8.52	5.43	23.13
Swift & Company Memphis, Tennessee									
Swift's Broiler Ration—Medicated -----	22.00	6.00	4.50	48.50	184-R	25.88	7.06	3.86	41.56
Swift & Company Selma, Alabama									
#Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	82-S	34.98	5.35	17.23	26.45
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	96-S	35.86	5.39	16.68	27.70
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	97-S	37.07	4.69	15.95	27.58
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	98-S	36.09	4.20	16.96	26.78
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	99-S	36.72	4.80	16.49	25.61
#Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	136-S	36.42	2.91	17.55	28.88
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	171-S	36.43	2.56	17.04	29.01
#Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	173-S	35.92	5.68	17.15	26.01
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	180-S	35.76	4.17	16.62	28.06
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	178-S	37.48	3.38	16.06	28.33
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	179-S	36.73	3.69	15.99	27.96
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	177-S	36.54	4.93	15.94	27.50
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	230-S	37.67	4.61	15.91	26.86
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	17.00	25.00	247-S	36.19	3.86	13.86	31.02
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	17.00	25.00	248-S	36.23	3.98	14.60	30.14
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	217-S	36.16	4.05	16.54	28.67
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	228-S	37.11	5.16	15.96	27.11
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	229-S	36.18	4.12	16.03	28.35
#Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	53-S	36.13	2.66	17.73	29.65
#Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	80-S	37.47	2.67	17.55	28.07
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	25-S	36.53	3.50	16.99	29.02

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
#Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	46-S	36.62	3.25	17.40	28.24
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	38-D	36.21	5.80	16.28	26.72
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	21-D	36.75	5.26	16.12	28.03
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	14-D	35.82	4.80	17.52	27.70
Swift's 36% Protein Cottonseed Meal, P.Q. -----	36.00	2.50	16.00	25.00	85-D	36.18	4.46	15.40	29.89
*Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	70-R	39.65	2.68	12.07	30.13
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	164-R	40.49	2.77	11.63	29.31
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	47-S	41.45	3.46	13.61	26.92
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	38-S	41.34	2.91	13.06	27.67
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	54-S	41.13	3.13	13.71	27.12
*Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	210-S	39.55	7.54	13.27	24.83
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	224-S	42.04	4.27	12.72	25.50
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	211-S	41.16	5.43	12.93	25.26
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	212-S	41.82	4.66	12.59	26.32
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	214-S	40.83	4.82	13.07	25.64
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	213-S	42.04	5.42	12.49	25.27
*Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	170-S	39.89	7.78	12.55	24.94
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	225-S	41.50	5.70	12.91	25.07
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	227-S	42.35	5.92	12.46	24.47
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	131-S	41.44	4.52	12.83	26.12
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	138-S	40.53	3.18	11.98	29.19
Swift's 41% Protein Cottonseed Meal, P.Q. -----	41.00	2.50	13.00	22.00	95-S	41.14	4.87	12.84	26.16

Selma Ice & Feed Co.
Selma, Alabama

Sweet Sixteen 16% Dairy Feed	16.00	3.50	15.00	44.00	101-S	16.24	4.24	12.18	48.72
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Tenn. Valley Cooperatives, Inc.
Decatur, Alabama

Soybean Oil Meal	44.00	0.50	7.50	30.00	139-S	41.84	2.67	7.32	31.14
TV-Coop 20% Laying Mash	20.00	3.50	6.00	50.00	45-E	20.00	4.19	5.62	48.35
TV Coop 40% Hog Supplement	40.00	2.00	8.50	16.00	46-E	41.15	2.92	6.03	22.86
TV Coop Cage Layer	18.00	2.50	6.00	50.00	47-E	18.26	4.12	4.10	49.11
TV Coop 16% Sow & Pig Feed	16.00	3.00	6.00	50.00	48-E	17.16	3.99	5.71	34.19
Tevaco Hog Ration	15.00	3.00	8.00	42.00	49-E	17.96	4.41	5.18	53.00
Tevaco 16% Dairy Feed	16.00	2.50	15.00	42.00	35-E	16.24	3.72	11.09	42.77
T.V. Coop Growing Mash	20.00	3.50	7.00	45.00	118-E	20.29	3.96	5.79	49.69
T.V. Coop Pig Starter	18.00	3.00	6.00	50.00	117-E	17.80	4.45	3.43	55.62
T.V. Coop 32% Poultry Supplement	32.00	2.50	9.00	25.00	116-E	33.41	3.62	7.21	28.03
Tevaco 40% Hog Supplement	40.00	2.50	8.50	16.00	115-E	39.64	3.22	6.77	25.85
T.V. Coop Sow & Pig Supplement	26.00	2.50	7.00	25.00	114-E	27.17	4.88	6.84	40.73
T.V. Coop 20% Laying Mash	20.00	3.50	6.00	50.00	113-E	19.67	4.29	5.26	48.80
TV Co-op 16% Sow & Pig Feed	16.00	3.00	6.00	50.00	146-R	17.33	4.43	4.85	55.21
TV Co-op 40% Hog Supplement	40.00	2.00	8.50	16.00	145-R	39.92	3.12	5.98	24.51
TV Co-Op 20% Laying Mash	20.00	3.50	6.00	30.00	150-D	21.18	4.01	5.63	48.16
TV Co-op Hog Ration	16.00	3.00	7.00	50.00	25-W	17.32	4.16	3.75	54.23
TVC Universal Mix	12.00	2.50	12.00	46.00	22-W	19.04	4.79	6.90	48.09
FMX 20% Laying Mash	20.00	3.50	6.00	50.00	21-W	21.21	4.05	5.14	48.34
FMX 20% Hog Supplement	40.00	2.00	8.50	16.00	23-W	40.90	3.47	6.02	23.88
FMX Growing Mash	20.00	3.50	7.00	45.00	24-W	21.13	3.63	5.23	49.16

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Tri-Foods Co. Concordia, Missouri									
Concordia Brand Spec. -----	9.00	1.00	1.00	20.00	99-T	10.94	2.19	0.68	34.62
Valley Feed Company Scottsboro, Alabama									
Valco Broiler Starter -----	24.00	6.00	3.00	46.00	91-T	23.74	6.68	2.37	49.88
Valley Mills Vicksburg, Mississippi									
Grade A Rabbit Pellets -----	16.00	2.00	18.00	45.00	63-D	17.50	3.84	10.11	47.12
Jax Horse and Mule Feed -----	9.00	2.00	12.00	54.00	18-D	8.43	4.18	9.49	56.79
Big Boy Horse & Mule Feed -----	9.00	2.50	15.00	50.00	17-D	8.75	3.62	12.77	53.73
Grade A Hi-Energy Range Cubes -----	20.00	3.00	14.00	50.00	29-D	24.63	4.68	13.74	31.41
Valley View Milling Co., Inc. Gallion, Alabama									
Valley View Fortified 18% Dairy Feed -----	18.00	2.00	8.00	48.00	126-S	18.59	3.67	6.96	47.83

Blackbelt Special 16% Dairy Feed -----	16.00	3.00	14.00	50.00	125-S	16.70	3.27	11.22	48.71
Valley View 14% Fitting Ration -----	14.00	3.00	7.50	55.00	124-S	14.52	3.66	7.75	51.87
Summer Fitting Ration -----	12.00	2.50	12.00	50.00	123-S	13.57	3.87	12.02	50.60
Webb Milling Co.									
Webb, Alabama									
Ground Peanut Vine Hay Meal & Molasses -----	7.50	2.00	30.00	40.00	6-H	8.59	3.64	23.85	38.28
Ground Snap Corn -----	7.50	3.50	10.00	60.00	7-H	7.17	5.66	8.18	59.80
Western Grain Company									
Birmingham, Alabama									
Jim Dandy 16% Protein Test Cow Feed -----	16.00	2.50	9.00	48.00	17-T	17.00	3.94	8.12	50.40
Pep Sweet Grain Horse & Mule Feed -----	9.50	2.00	10.00	55.00	20-T	9.83	4.28	7.92	58.34
Jim Dandy Uncle Sam Dairy Feed -----	16.00	2.50	15.00	40.00	19-T	17.64	3.24	10.22	46.74
Jim Dandy Bang Up 24% Dairy Feed -----	24.00	2.50	14.00	38.00	18-T	23.68	3.34	8.71	42.89
Jim Dandy 20% Protein Cow Feed -----	20.00	2.50	10.00	48.00	124-R	21.27	4.51	8.42	46.98
Jim Dandy Dry & Freshening Feed -----	12.50	2.50	12.50	45.00	74-M	14.19	3.58	7.98	52.48
Jim Dandy Horse & Mule Feed -----	9.00	2.00	12.00	50.00	76-D	9.06	3.74	6.08	61.46
Jim Dandy Broiler Mash—Medicated -----	23.00	5.00	3.50	50.00	115-D	23.10	5.74	2.80	51.92
Dry & Freshening Feed -----	12.50	2.50	9.00	48.00	77-D	13.42	3.11	8.44	53.26
Jim Dandy Laying Mash -----	20.00	3.50	7.00	40.00	130-D	21.21	4.20	6.92	49.67
Jim Dandy Broiler Mash 3-N B-F Medicated -----	23.00	5.00	3.50	50.00	118-D	23.35	5.42	2.88	50.91
Jim Dandy Broiler Mash 3-N B-F Medicated -----	23.00	5.00	3.50	50.00	117-D	23.70	5.34	2.84	50.68
Jim Dandy Pig & Hog Supplement -----	40.00	3.00	11.00	50.00	64-T	42.44	3.46	6.00	24.86
Jim Dandy Dog Ration High Energy -----	24.00	7.00	4.00	40.00	63-T	25.27	8.13	2.96	42.31
Uncle Sam Dairy Feed -----	16.00	2.50	15.00	40.00	62-T	16.87	2.51	10.99	45.77
Uncle Sam Hog Feed -----	17.00	3.00	8.00	42.00	89-E	20.28	4.93	6.49	48.28
Jim Dandy Laying Mash -----	20.00	3.50	7.00	44.00	90-E	21.84	5.24	6.49	47.77
Jim Dandy Sow & Pig Pellets -----	18.00	3.50	6.00	45.00	88-E	19.66	6.01	5.31	51.44

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.

REPORT OF OFFICIAL FEED SAMPLES ANALYZED—FISCAL YEAR 1957-58—(Continued)

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NAME AND ADDRESS OF MANUFACTURERS BRAND NAMES	Manufacturer's Guaranteed Analysis				Department Number	State Chemist's Analysis			
	% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract		% Crude Protein	% Crude Fat	% Crude Fiber	% Nitrogen Free Extract
Hog Ration -----	18.00	3.00	8.00	46.00	87-E	19.83	5.14	6.92	47.71
Jim Dandy Pig & Hog Supplement -----	40.00	3.00	11.00	15.00	86-E	40.00	4.02	8.11	24.56
Bang Up 24% Protein Dairy Feed -----	24.00	2.50	14.00	38.00	34-E	23.06	3.09	8.61	43.77
New Bite Size Jim Dandy Pig & Hog Supplement -----	40.00	3.00	11.00	15.00	239-E	41.81	3.94	6.51	23.90
Jim Dandy Laying Mash -----	20.00	3.50	7.00	48.00	177-R	21.49	4.69	6.37	47.64
Jim Dandy Hog Ration -----	18.00	3.00	8.00	46.00	120-R	18.74	5.03	6.31	50.06
Jim Dandy Laying Mash -----	20.00	3.50	8.00	44.00	121-R	21.20	5.15	6.17	48.29
Whigham Milling Co. Enterprise, Alabama									
Whigham's Supreme Sow & Pig Meal -----	16.00	3.00	6.50	54.00	14-H	17.94	4.06	5.49	53.89
Whigham's Supreme 40% Hog Supplement -----	40.00	1.00	6.00	25.00	46-H	39.27	3.74	6.39	20.82
Whigham's Supreme 40% Hog Supplement -----	40.00	2.00	9.00	20.00	61-H	41.17	2.22	7.67	24.93
#*Whigham's Supreme 40% Hog Supplement -----	40.00	1.00	6.00	25.00	12-H	38.09	3.90	7.02	21.18
Whigham's Ground Peanut Vine Hay & Mol. -----	8.00	3.00	20.00	45.00	15-H	10.00	4.27	27.12	32.92
Winmar Poultry Industries Rt. 5, Haleyville, Alabama									
Winmar Starter Mash -----	23.00	5.00	3.00		200-R	22.43	6.67	2.72	51.24

COMMERCIAL FEEDING STUFFS

Wiregrass Milling Co.
Dothan, Alabama

Wiregrass Laying Mash -----	20.00	4.50	2.50	44.00	4-H	23.40	5.67	2.42	48.80
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Wright Bros.
Collinsville, Alabama

Wright's Hi-Flier 14% Hog Feed -----	14.00	3.90	7.50	61.00	242-E	13.26	4.07	3.74	61.49
Wright's Hi-Flier Laying Mash with Ful-O-Pep Concentrate ---	20.00	3.00	7.00	47.50	241-E	22.75	3.98	6.79	45.16
Wright's Break O'Day 16% Dairy Feed with Ful-O-Pep Concentrate -----	16.00	3.00	13.00	50.00	240-E	17.48	3.19	10.76	49.80

R. L. Zeigler, Inc.
Tuscaloosa, Alabama

Meat Scraps -----	50.00	12.00	6.00	3.00	206-S	54.32	5.32	0.77	0.94
Meat Scraps -----	50.00	12.00	6.00	3.00	104-M	45.22	13.16	1.47	2.12
*Meat Scraps -----	50.00	12.00	6.00	3.00	39-R	45.96	13.87	1.51	1.04
*Meat Scraps -----	50.00	12.00	6.00	3.00	101-R	46.85	14.83	1.22	1.26

* Deficient 1% or more in Crude Protein.

Excess 1% or more in Crude Fiber.