

C. A. R.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF EXPERIMENT STATIONS.

THE CHEMICAL COMPOSITION

OF

AMERICAN FOOD MATERIALS.

[Corrected April 14, 1906.]

BY

W. O. ATWATER, Ph. D.,

AND

A. P. BRYANT, M. S.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
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LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF EXPERIMENT STATIONS,
Washington, D. C., March 31, 1899.

SIR: I have the honor to transmit herewith a tabulated summary of analyses made in the United States of materials used for the food of man, prepared by W. O. Atwater, Ph. D., and A. P. Bryant, M. S., under instructions from the Director of this Office. This compilation is a revision of an earlier bulletin of this Office bearing the same title. Since the first edition was published a large number of analyses of foods have been made in connection with the nutrition investigations conducted under the auspices of this Department. Other analyses have been reported by the experiment stations, as well as a large number by the Division of Chemistry of this Department.

In the present publication it is the intention to give the maximum, minimum, and average of all available analyses of American food products up to January 1, 1899, with the exception of milk, butter, and other dairy products, and sugars. The number of analyses of such products is so great and the literature of the subject so large that a compilation of the results might appropriately form the subject of a special publication.

The literature of the subject has been thoroughly gone over, and the present compilation is based upon over 4,000 analyses. A considerable number of these were made by Professor Atwater and his associates, in Middletown, Conn., and a large number by the Division of Chemistry of this Department. Especial credit is due Mr. R. D. Milner for assistance in compiling the results of analyses.

As a necessary basis of this tabulation the individual analyses have been collated in detail. In many cases the number of analyses of a single product was considerable, and it is believed that the averages which are given in the tables may be advantageously used in computing the composition of foods used in dietary studies, etc. In the present form this standard table of food analyses is more complete and satisfactory than any table which has preceded it, and its publication as a revision of Bulletin 28 of this Office is respectfully recommended.

Respectfully,

Hon. JAMES WILSON,
Secretary of Agriculture.

A. C. TRUE,
Director.

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THE CHEMICAL COMPOSITION OF AMERICAN FOOD MATERIALS.

INTRODUCTION.

Until about the year 1880 those who wished to know about the chemical composition and nutritive values of food materials were compelled to depend upon analyses of European products, and most of those analyses had been made in German laboratories. During the last two decades American investigations have accumulated and the results have been collated from time to time. Bulletin No. 28 of this Office, entitled The Chemical Composition of American Food Materials, and issued in 1896, gave minimum, maximum, and average figures from a compilation of the analyses of American food materials that were found on record up to July 1, 1895. Since that time the number of analyses of food materials has increased to such an extent that a revision of that bulletin seems desirable. The present bulletin includes American analyses of materials used as food by man, which the compilers have found on record up to January 1, 1899. This table is intended to replace previous ones, and to serve as a standard of reference until it shall, in its turn, be replaced by a larger and more complete compilation.

BRIEF HISTORY OF FOOD ANALYSIS.

The first effective impulse to the systematic investigation of the chemistry of food was given by Liebig some fifty years ago. Nearly all of our definite knowledge of the chemical composition of food materials and their nutritive value, however, has accumulated within comparatively a few years past. The earliest quantitative analyses of food materials which we have found are those of potatoes, reported by George Pearson in England in 1795.¹ In these Pearson estimated the proportions of water, starch, fibrous matter, extractive matters, and ash in kidney potatoes. He also recognized the presence of fat, acids, and sugar. In 1805 Einhoff² made somewhat similar analyses of potatoes and rye. In addition to the estimations made by Pearson, he attempted the separation of albumin. In the case of the potatoes he also deter-

¹ Report. Arts and Manufactures, 3 (1795), pp. 383-400.

² Gehlen's Neues Jour. Chem., 4 (1805), pp. 315, 455; 5 (1806), p. 131.

mined several of the constituents of the ash. The earliest European analyses made in such ways as to render them comparable with those of to-day are perhaps those of milk reported by Peligot in 1836,¹ those of feeding stuffs reported by Boussingault in 1836² and 1838,³ and those of milk reported by Boussingault and Le Bel in 1839.⁴ The methods of analyses at that time were naturally imperfect. Then, and for some years afterwards, the chief stress was laid upon the proportions of carbon and nitrogen, though efforts were made to determine the proportions of fats, carbohydrates, and nitrogenous compounds. Liebig and his followers—Playfair, Boeckman, and others—about 1840 and later, analyzed a considerable number of foods and feeding stuffs by methods more or less analogous to those now followed. Indeed, during the period from 1840 to 1865, many more or less accurate analyses of foods and food products were made. Often the elementary composition was determined, although many analyses are recorded in which the attempt was made to learn the proximate composition. The methods of determining inorganic compounds were more satisfactory than those for organic compounds, and the early literature reports many determinations of the ash constituents of foods and food products.

Much interest attaches to American work of this nature. The earliest which we have found is the ash analysis of rice, rice flour, husk, etc., reported by C. U. Shephard.⁵ He also reported ash analysis of Indian corn and sweet potatoes.⁶ In 1848 Salisbury published his prize essay entitled "Maize, or Indian corn."⁷ This is a very comprehensive study of the corn plant. A large number of ash analyses of the grain and different parts of the plant are reported, as well as proximate analyses of different sorts of corn. The constituents determined were starch, sugar and extract, fiber, "matter obtained from fiber by a weak solution of potash," albumin, casein, zein, gluten, oil, dextrin or gum, and water. Although these analyses have been superseded by those made in recent years by more accurate methods, it is interesting to compare Salisbury's results with the results of later analyses. For instance, if the sum of the nitrogenous constituents and of the carbohydrates (separately determined by Salisbury) are considered, the percentage composition of ash-free Pennsylvania yellow dent corn is as follows: Water, 10.2; protein, 9.4; fat, 3.7; and carbohydrates, 73.2. The corn was finely ground for analysis and the result may be fairly compared with that of unbolted corn meal (see p. 56). In 1848 and 1849 Beck⁸ reported the proximate composition of a large number of samples of wheat and

¹ Ann. Chim. et Phys., 2. ser., 62 (1836), p. 432.

² Ibid., 63 (1836), p. 225.

³ Ibid., 67 (1838), p. 408.

⁴ Ibid., 71 (1839), p. 55.

⁵ Trans. New York State Agr. Soc., 1844, p. 343; Amer. Quart. Jour. Agr. and Sci., 1 (1845), p. 122.

⁶ Amer. Quart. Jour. Agr. and Sci., 1 (1845), p. 130.

⁷ Trans. New York State Agr. Soc., 1848, p. 678.

⁸ U. S. Patent Office Rpts., Agr., 1848, p. 245; 1849, p. 49.

flour. The constituents determined were water, bran, gluten, starch and glucose, dextrin, etc.

In 1849 Emmons¹ published a considerable number of analyses similar to those made by Salisbury of oats, barley, millet, rye, corn, buckwheat, and wheat. Emmons also reported analyses of tomatoes, carrots, beets, parsnips, beans, squash, eggplant, potatoes, and sweet potatoes.² Analyses of several sorts of cabbage and of cauliflower and turnip-rooted cabbage (kohl-rabi) made by Salisbury are quoted in Emmons's report.³ In 1857 Jackson⁴ reported proximate analyses of several varieties of corn and of Chinese yam and potatoes.

Much of this earlier work is interesting to-day, chiefly from a historical standpoint. The analyses in most instances were very carefully made, but accurate methods of organic and analytical chemistry had not yet been developed. A great advance was possible when Henneberg and his associates elaborated the so called Weende method for proximate analysis. While this is based on earlier work, the methods were simplified and systematized. It was not until this new method came into general use, about 1864, that any considerable number of chemists undertook a systematic study of food materials from the standpoint of their nutritive values. The Weende method has been used for over thirty years in Europe, America, and other countries. Individual investigators and associations of chemists have studied its details and devised ways by which it might be improved. Minor alterations have been adopted, and in several countries details have been agreed on officially by organizations representing experiment stations and Government officers charged with the responsibility of making analyses in the interests of the public. The methods followed in different countries agree so closely, that for the last twenty years it has been possible to accept analyses by chemists in different parts of the world and compare them one with another without hesitation. The first analyses made by these methods in the United States of which a record has been found were a series of analyses of Indian corn in 1869.⁵ Excepting the investigations of Professor Storer, at the Bussey Institute, little work in this line was done until the establishment of the experiment stations. Since that time a large number of analyses have been made. Jeukins and Winton's Compilation of Analyses of American Feeding Stuffs includes analyses of grain and vegetables, and is reasonably complete up to 1891.

Upward of 200 analyses of food fishes, oysters, etc., were published in the Report of the United States Commissioner of Fish and Fisheries for 1888, and a much larger number of analyses of canned vegetables, cereal products, etc., have been reported by the Division of

¹ Nat. Hist. New York, pt. 5, Agr., 2 (1849), p. 90.

² Ibid., pp. 37, 55, 295.

³ Ibid., p. 248.

⁴ U. S. Patent Office Rpts., Agr., 1857, pp. 160-165.

⁵ On the proximate composition of several varieties of American maize, by W. O. Atwater, American Journal of Science and Arts, 47 (1869), No. 11, p. 352.

Chemistry of the United States Department of Agriculture. Many analyses of animal and vegetable food materials have been made in connection with the nutrition investigations carried on under the direction of this Office. In the compilation from which the figures in the present bulletin are taken the results of all these have been included, as well as the analyses, made by W. O. Atwater and associates, of some 500 specimens of food materials at the instance of the World's Columbian Commission and not yet published in detail. Analyses of American food materials made in foreign countries and analyses of foreign food materials made in this country have been included only in exceptional cases.

In collating the material for the present compilation the results of over 1,000 unpublished analyses made in connection with the nutrition investigations conducted with the cooperation of the Storrs (Connecticut) Station and this Department at the chemical laboratory of Wesleyan University have been included, as well as a number of unpublished analyses made by the Maine Station.

No attempt has been made to collect all of the published analyses of milk, butter, and sugars. Such a task would be difficult, because of the large number of analyses made for inspection and otherwise and the number and diversity of the publications in which they are scattered. The figures given in the table on pages 54, 55, and 65 are estimates based upon the data conveniently at hand, and suffice to show the range of variation of the average composition.

The following tabular statement shows the number of specimens of each of the several classes of foods included in this compilation. As a rule figures for the composition of the quarters and sides of meat were calculated from the composition and weight of the cuts making up the larger portion, and are not included in the estimate as direct analyses. The number of sides thus analyzed were, beef, 13; veal, 6; lamb, 3; mutton, 32; pork, 11.

Number of analyses of specimens of American foods included in the compilation from which the figures in the tables of composition of foods were obtained.

Food materials.	Food and nutrition investigations.		Division of Chemistry, U. S. Department of Agriculture.	Miscel- laneous.	Total.
	Atwater and associates.	Other investiga- tors.			
ANIMAL FOOD.					
Beef.....	379	148	0	8	535
Veal.....	91	16	0	0	107
Lamb and mutton.....	122	9	0	0	131
Pork.....	120	40	88	0	248
Sausage.....	40	6	0	0	46
Poultry and game.....	28	28	0	0	51
Fish.....	123	16	0	0	143
Shellfish.....	66	6	0	0	72
Eggs.....	20	17	0	53	90
Cheese.....	8	14	8	47	77
Condensed milk.....	4	1	0	28	33
Miscellaneous.....	17	16	0	52	85
Total animal-food materials.....	1,023	311	96	188	1,618

Number of analyses of specimens of American foods included in the compilation from which the figures in the tables of composition of foods were obtained—Continued.

Food materials.	Food and nutrition investigations.		Division of Chemistry, U. S. Department of Agriculture.	Miscel- laneous.	Total.
	Atwater and associates.	Other investiga- tors.			
VEGETABLE FOOD.					
Flours, meals, etc.:					
Barley, buckwheat, corn, and rye.....	19	51	13	23	106
Oats	18	29	7	11	55
Rice.....	4	11	1	15	31
Wheat preparations, etc.	9	34	16	15	74
Macaroni and vermicelli	24	8	4	1	32
Wheat flours.....	57	87	112	59	315
Bread, crackers, and pastry	87	262	150	0	508
Sugars and starches	4	10	22	12	48
Total flours, sugars, etc.	222	487	334	136	1,179
Vegetables:					
Beans and other legumes.....	21	45	152	10	228
Roots	2	28	29	34	93
Potatoes and sweet potatoes	14	34	3	203	254
Other vegetables	16	51	125	52	244
Total vegetables	53	158	309	209	819
Fruits					
Nuts	19	82	16	170	287
Nuts	1	1	0	59	61
Total fruits and nuts	20	83	16	229	348
Miscellaneous.....					
Total vegetable-food materials.....	298	749	659	666	2,375
UNCLASSIFIED.					
Soups	35	3	0	0	38
Miscellaneous.....	4	8	0	20	32
Total unclassified	39	11	0	20	70
Total food materials	1,360	1,071	755	877	4,063

EXPLANATION OF TERMS.

The terms used in reporting analyses of foods and feeding stuffs need some explanation. Some of these terms have a technical meaning which is well recognized and understood by scientists, although the dictionaries and similar books of reference have not yet included these uses in their definitions. In other cases the same word has been used by scientists in different ways. The more usual terms are defined and explained below in the sense in which they are employed in this bulletin and other publications of this Office.

COMPOSITION OF FOOD MATERIALS.

Ordinary food materials, such as meat, fish, eggs, potatoes, wheat, etc., consist of:

Refuse.—As the bones of meat and fish, shells of shellfish, skin of potatoes, bran of wheat, etc.

Edible portion.—As the flesh of meat and fish, the white and yolk of eggs, wheat flour, etc. This edible portion consists of water (usually

incorporated in the tissue and not visible as such), and nutritive ingredients or nutrients.

The principal kinds of nutritive ingredients are protein, fats, carbohydrates, and ash or mineral matters.

The water and refuse of various foods and the salt of salted meat and fish are called nonnutrients. In comparing the values of different food materials for nourishment they are left out of account.

Protein.—This term is used to include nominally the total nitrogenous substance of animal and vegetable food materials, exclusive of the so-called nitrogenous fats. Actually it is employed, in common usage, to designate the product of the total nitrogen by an empirical factor, generally 6.25.

This total nitrogenous substance consists of a great variety of chemical compounds, which are conveniently divided into two principal classes, proteids and nonproteids.

The term proteid, as here employed, includes (1) the simple proteids, e. g., albuminoids, globulins, and their derivatives, such as acid and alkali albumins, coagulated proteids, proteoses, and peptones; (2) the so-called combined or compound proteids; and (3) the so-called gelatinoids (sometimes called "glutinoids") which are characteristic of animal connective tissue.

The term albuminoids has long been used by European and American chemists and physiologists as a collective designation for the substances of the first two groups, though many apply it to all three of these groups. Of late a number of investigators and writers have employed it as a special designation for compounds of the third class.¹

The term nonproteid is here used synonymously with nonalbuminoid, and includes nitrogenous animal and vegetable compounds of simpler constitution than the proteids. The most important animal compounds of this class are the so-called "nitrogenous extractives" of muscular and connective tissue, such as creatin, creatinin, xanthin, hypoxanthin, and allied cleavage products of the proteids. To some of these the term "meat bases" has been applied. The latter, with certain mineral salts (potassium phosphates, etc.), are the most important constituents of beef tea and many commercial "meat extracts."

The nonproteid nitrogenous compounds in vegetable foods consist of amids and amido acids, of which asparagin and aspartic acid are familiar examples.

The ideal method of analysis of food materials would involve quantitative determinations of the amounts of each of the several kinds or groups of nitrogenous compounds. This, however, is seldom attempted. The common practice is to multiply the percentage of nitrogen by the factor 6.25 and take the product as representing the total nitrogenous

¹ U. S. Dept. Agr., Office of Experiment Stations Bul. 65, p. 118.

substance. For many materials, animal and vegetable, this factor would be nearly correct for the proteids, which contain, on the average, not far from 16 per cent of nitrogen, although the nitrogen content of the individual proteids is quite varied. The variations in the nitrogen of the nonproteids are wider, and they contain, on the average, more than 16 per cent of nitrogen. It is evident, therefore, that the computation of the total nitrogenous substance in this way is by no means correct. In the flesh of meats and fish, which contain very little of carbohydrates, the nitrogenous substance is frequently estimated by difference, i. e., by subtracting the ether extract and ash from the total water-free substance. While this method is not always correct, it is oftentimes more nearly so than the determination by use of the usual factor.

The distinction between protein and proteids is thus very sharp. The latter are definite chemical compounds, while the former is an entirely arbitrary term used to designate a group which is commonly assumed to include all of the nitrogenous matter of the food except the nitrogenous fats.

In the tables herewith the common usage is followed, by which the protein is given as estimated by factor, i. e., total nitrogen multiplied by 6.25. In the analyses of meats and fish, however, the figures for protein "by difference" are also given. Where the proteid and non-proteid nitrogenous matter have been estimated in a food material the proportions are indicated in a footnote.

Fats.—Under fats is included the total ether extract. Familiar examples of fat are fat of meat, fat of milk (butter), oil of corn, olive oil, etc. The ingredients of the "ether extract" of animal and vegetable foods and feeding stuffs, which it is customary to group roughly as fats, include with the true fats various other substances, as fatty acids, lecithins (nitrogenous fats), and chlorophylls.

Carbohydrates.—Carbohydrates are usually determined by difference. They include sugars, starches, cellulose, gums, woody fiber, etc. In many instances separate determinations of one or more of these groups have been made. The determinations of "fiber" in vegetable foods, i. e., substances allied to carbohydrates but insoluble in dilute acid and alkali, and somewhat similar to woody fiber, are given in a separate column. The figures in parentheses in the crude-fiber column show the number of analyses in which the fiber was determined. The figures for "total carbohydrates" include the fiber, as well as sugars, starches, etc. Where the sugars or starches have been determined separately footnotes are added giving the average results.

Ash or mineral matters.—Under this head are included phosphates, sulphates, chlorids, and other salts of potassium, sodium, magnesium, and other metallic elements. Where analyses of the mineral matters have been found they are added in the form of footnotes. These results usually give the percentage composition of the ash as produced by

incineration rather than the proportions in which the different mineral ingredients occur in the food material.

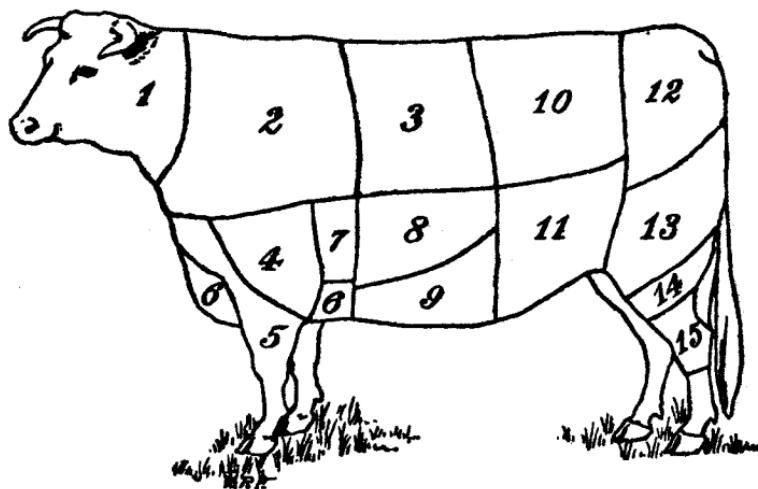
Fuel value.—By fuel value is meant the number of calories of heat equivalent to the energy which it is assumed the body would be able to obtain from one pound of a given food material, provided the nutrients of the latter were completely digested. The fuel values of the different food materials are calculated by use of the factors of Rubner, which allow 4.1 calories for a gram of protein, the same for a gram of carbohydrates, and 9.3 calories per gram of fats. These amounts correspond to 18.6 calories of energy for each hundredth of a pound of protein and of carbohydrates, and 42.2 calories for each hundredth of a pound of fat in the given food material. In the following table the fuel value per pound has been calculated by use of these factors. In these calculations the values of protein by factor have been used in all cases with the exception of salt cod (p. 50) and hens' eggs (p. 53), in which the value of protein by difference was used.

CUTS OF MEAT.

The methods of cutting sides of beef, veal, mutton, and pork into parts, and the terms used for the different "cuts," as these parts are commonly called, vary in different localities. The analyses here reported apply to cuts as indicated by the following diagrams. These show the positions of the different cuts, both in the live animal and in the dressed carcass as found in the markets. The lines of division between the different cuts will vary slightly, according to the usage of the local market, even where the general method of cutting is as here indicated. The names of the same cuts likewise vary in different parts of the country.

The cuts of beef.—The general method of cutting up a side of beef is illustrated in fig. 1, which shows the relative position of the cuts in the animal and in a dressed side. The neck piece is frequently cut so as to include more of the chuck than is represented by the diagrams. The shoulder clod is usually cut without bone, while the shoulder (not indicated in diagram) would include more or less of the shoulder blade and of the upper end of the fore shank. Shoulder steak is cut from the chuck. In many localities the plate is made to include all the parts of the fore quarter designated on the diagrams as brisket, cross-ribs, plate and navel, and different portions of the plate, as thus cut, are spoken of as the "brisket end of plate" and "navel end of plate." This part of the animal is largely used for corning. The ribs are frequently divided into first, second, and third cuts, the latter lying nearest the chuck and being slightly less desirable than the former. The chuck is sometimes subdivided in a similar manner, the third cut of the chuck being nearest the neck. The names applied to different portions of the loin vary considerably in different localities. The part nearest the ribs is frequently called "small end of loin" or "short

steak." The other end of the loin is called "hip sirloin" or "sirloin." Between the short and the sirloin is a portion quite generally called the "tenderloin," for the reason that the real tenderloin, the very tender



- 1. Neck.
- 2. Chuck.
- 3. Ribs.
- 4. Shoulder clod.
- 5. Fore shank.
- 6. Brisket.
- 7. Cross ribs.
- 8. Plate.
- 9. Navel.
- 10. Loin.
- 11. Flank.
- 12. Rump.
- 13. Round.
- 14. Second cut round.
- 15. Hind shank.

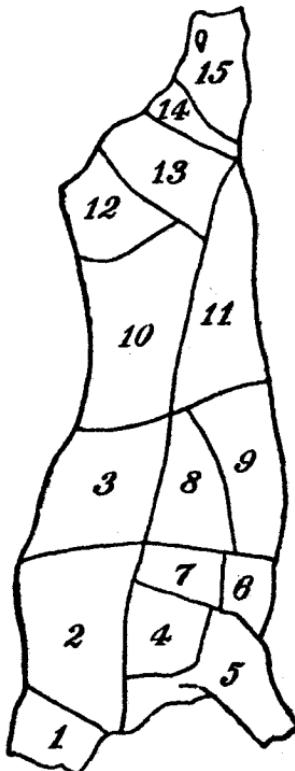


FIG. 1.—Diagrams of cuts of beef.

strip of meat lying inside the loin, is found most fully developed in this cut. Porterhouse steak is a term most frequently applied to either the short steak or the tenderloin. It is not uncommon to find the flank

cut so as to include more of the loin than is indicated in the figures, in which case the upper portion is called "flank steak." The larger part of the flank is, however, very frequently corned, as is also the case with the rump. In some markets the rump is cut so as to include a portion of the loin, which is then sold as "rump steak." The portion of the round on the inside of the leg is regarded as more tender than that on the outside, and is frequently preferred to the latter. As the leg lies upon the butcher's table this inside of the round is usually on the upper, or top, side, and is therefore called "top round." Occasionally the plate is called the "rattle."

The cuts of veal.—The method of cutting up a side of veal differs considerably from that employed with beef. This is illustrated by fig. 2, which shows the relative position of the cuts in the animal and

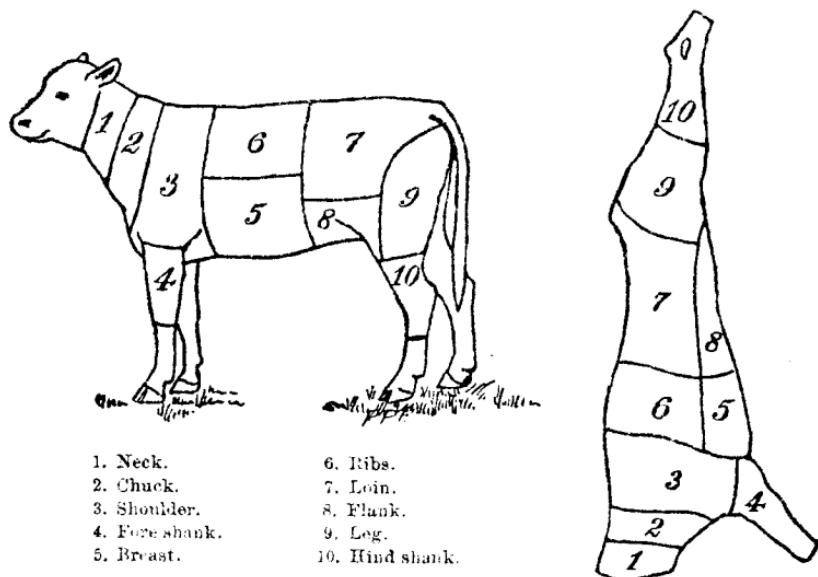


Fig. 2.—Diagrams of cuts of veal.

in a dressed side. The chuck is much smaller in proportion, and frequently no distinction is made between the chuck and the neck. The chuck is often cut so as to include a considerable portion here designated as shoulder, following more nearly the method adopted for subdividing beef. The shoulder of veal as here indicated includes, besides the portion corresponding to the shoulder in beef, the larger part of what is here classed as chuck in the adult animal. The under part of the fore quarter, corresponding to the plate in the beef, is often designated as breast in the veal. The part of the veal corresponding to the rump of beef is here included with the loin, but is often cut to form part of the leg. In many localities the fore and hind shanks of veal are called the "knuckles."

The cuts of lamb and mutton.—Fig. 3 shows the relative position of the cuts in a dressed side of mutton or lamb and in a live animal. The

cuts in a side of lamb and mutton number but six, three in each quarter. The chuck includes the ribs as far as the end of the shoulder blades, beyond which comes the loin. The flank is made to include all the under side of the animal. Some butchers, however, make a larger number of cuts in the fore quarter, including a portion of the cuts marked "loin" and "chuck" in fig. 3, to make a cut designated as "rib," and a portion of the "flank" and "shoulder" to make a cut designated as "brisket." The term "chops" is ordinarily used to designate portions of either the loin, ribs, chuck or shoulder, which are either cut or "chopped" by the butcher into pieces suitable for frying or broiling. The chuck and ribs are sometimes called the "rack."

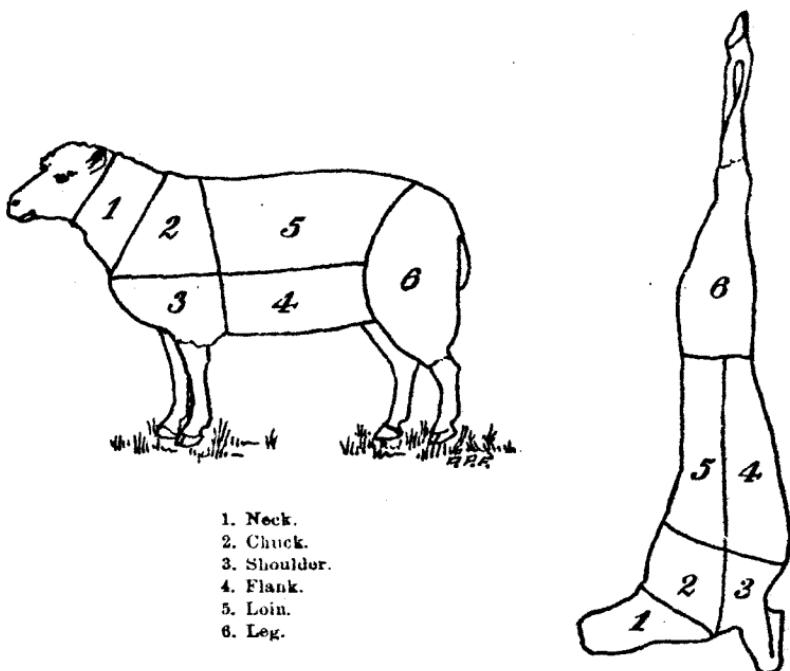


FIG. 3.—Diagrams of cuts of lamb and mutton.

The cuts of pork.—The method of cutting up a side of pork differs considerably from that employed with other meats. A large portion of the carcass of a dressed pig consists of almost clear fat. This furnishes the cuts which are used for "salt pork" and bacon. Fig. 4 illustrates a common method of cutting up pork, showing the relative position of the cuts in the animal and in the dressed side. The cut designated as "back cut" is almost clear fat and is used for salting and pickling. The "middle cut" is the portion quite generally used for bacon and for "lean ends" salt pork. The belly is salted or pickled or may be made into sausages.

Beneath the "back cut" are the ribs and loin, from which are obtained "spareribs," "chops," and roasting pieces, here designated

by dotted lines. The hams and shoulders are more frequently cured, but are also sold fresh as pork "steak." The tenderloin proper is a comparatively lean and very small strip of meat lying under the bones of the loin and usually weighing a fraction of a pound. Some fat is usually trimmed off from the hams and shoulders which is called "ham and shoulder fat" and is often used for sausages, etc. What is called

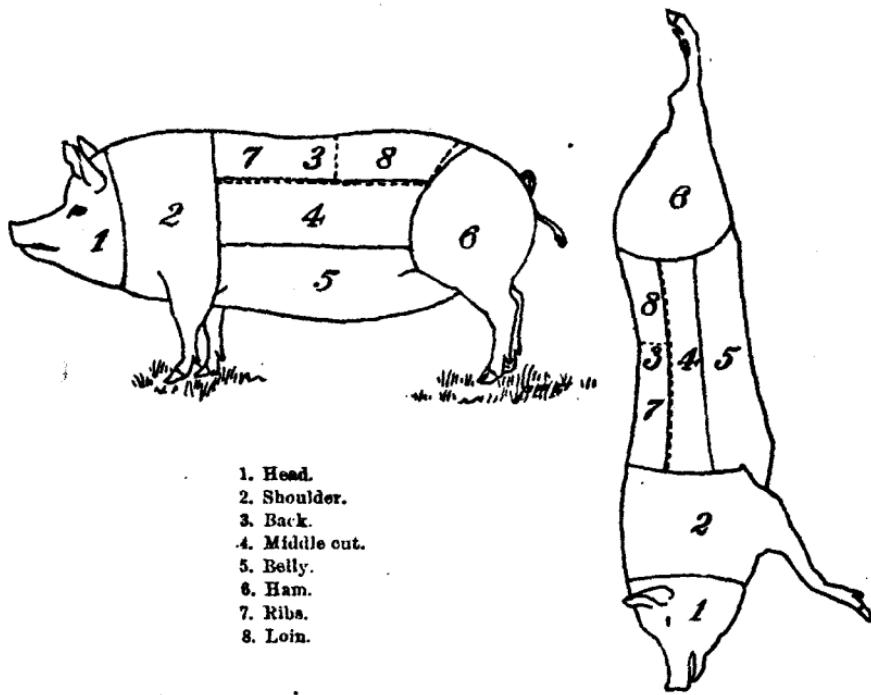


FIG. 4.—Diagrams of cuts of pork.

"leaf lard," at least in some localities, comes from the inside of the back. It is the kiduey fat.

As stated above, cuts as shown in the diagrams herewith correspond to those of which analyses are reported in the table beyond, but do not attempt to show the different methods of cutting followed in markets in different parts of the United States.

CHEMICAL COMPOSITION OF AMERICAN FOOD MATERIALS.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N X 6.25	By difference.											
ANIMAL FOOD.																
BEEF, FRESH.																
Brisket, medium fat:																
Edible portion—																
Minimum	3	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals. 0.8 1,205							
Maximum	3	47.4	13.7	14.6	22.5											
Average	3	50.6	17.1	17.0	37.2											
As purchased—																
Minimum	3	14.2	39.5	11.5	11.4	18.1			950							
Maximum	3	30.4	44.7	12.8	12.8	31.9			1,564							
Average	3	28.8	41.6	12.0	12.2	29.8			1,165							
Chuck, including shoulder, very lean:																
Edible portion	1		73.8	22.3	21.3	3.9			590							
As purchased	1	18.4	60.2	18.2	17.4	3.2			475							
Chuck, including shoulder, lean:																
Edible portion—																
Minimum	3		71.0	19.8	19.4	7.7			710							
Maximum	2		71.7	20.6	19.6	8.7			735							
Average	2		71.8	20.2	19.5	8.2			720							
As purchased—																
Minimum	2	17.4	55.6	15.5	15.2	6.4			575							
Maximum	2	21.7	59.2	17.0	16.9	6.8			585							
Average	2	19.5	57.4	16.8	15.7	6.6			580							
Chuck, including shoulder, medium fat:																
Edible portion—																
Minimum	4		67.1	19.1	18.0	18.1			800							
Maximum	4		68.5	20.2	19.4	14.0			945							
Average	4		68.3	19.6	18.9	11.9			885							
As purchased—																
Minimum	4	11.8	55.8	15.5	15.2	8.8			630							
Maximum	4	18.9	60.3	17.5	16.8	12.3			830							
Average	4	15.2	57.9	16.6	16.0	10.1			735							
Chuck, including shoulder, fat:																
Edible portion—																
Minimum	4		59.9	17.6	17.7	17.1			1,000							
Maximum	4		64.2	19.5	18.2	21.1			1,215							
Average	4		62.3	18.5	18.0	18.8			1,135							
As purchased—																
Minimum	3	12.0	48.4	14.2	14.7	14.8			940							
Maximum	3	19.2	55.9	17.0	16.0	17.1			985							
Average	3	14.7	53.3	15.9	15.4	15.9			945							
Chuck, including shoulder, very fat:																
Edible portion—																
Minimum	2		50.7	16.8	16.6	26.1			1,415							
Maximum	2		55.7	17.5	17.3	31.9			1,670							
Average	2		53.2	17.2	16.9	29.0			1,555							
As purchased—																
Minimum	2	11.2	36.5	11.0	11.3	17.1			925							
Maximum	2	34.5	45.0	15.5	14.8	28.3			1,480							
Average	2	22.3	40.9	13.8	15.0	22.7			1,265							
Chuck, including shoulder, all analyses:																
Edible portion	13		65.0	19.2	18.7	15.4			1,005							
As purchased	12	17.3	54.0	15.8	15.5	12.5			820							
Chuck rib, very lean:																
Edible portion	1		75.8	22.2	21.7	1.4			470							
As purchased	1	16.7	63.1	18.6	18.1	1.3			304							

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 0.25.	By difference.											
ANIMAL FOOD—Continued.																
BEEF, FRESH—continued.																
Chuck rib, lean:																
Edible portion—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum.	11	69.7	14.0	14.0	5.8				62							
Maximum.	11	73.4	20.5	20.5	12.2				77							
Average.	11	71.8	19.5	19.4	8.3				71							
As purchased—		16.1	47.6	11.7	11.7	4.5			47							
Minimum.	11	33.1	61.1	17.0	16.9	10.3			65							
Maximum.	11	22.7	55.1	15.1	15.0	6.4			56							
Chuck rib, medium fat:																
Edible portion—																
Minimum.	7	56.9	17.3	16.9	13.9				93							
Maximum.	7	67.0	19.5	19.5	25.3				1,39							
Average.	7	62.7	18.5	18.5	18.0				1,10							
As purchased—		9.8	45.7	13.9	13.5	10.9			72							
Minimum.	7	28.1	60.0	16.5	16.3	20.4			1,12							
Maximum.	7	16.3	52.6	15.5	15.3	16.0			92							
Chuck rib, fat:																
Edible portion—																
Minimum.	2	51.3	16.5	16.0	30.3				1,58							
Maximum.	2	52.8	16.5	16.1	32.0				1,65							
Average.	2	52.0	16.5	16.1	31.1				1,62							
As purchased—		5.4	43.6	14.0	13.6	27.2			1,40							
Minimum.	2	15.0	50.0	15.6	15.2	28.6			1,49							
Maximum.	2	10.2	46.8	14.8	14.4	27.9			1,46							
Chuck rib, all analyses:																
Edible portion	21	66.8	19.0	18.8	13.4				92							
As purchased	21	19.1	53.8	15.3	15.8	11.1			75							
Chuck, free from all visible fat:	1	74.1	22.6	22.0	2.8				54							
Flank, very lean:																
Edible portion—																
Minimum.	8	69.6	22.7	21.8	.7				52							
Maximum.	8	72.1	28.5	27.4	8.3				77							
Average.	8	70.7	25.9	24.8	8.3				62							
As purchased—		.7	67.1	22.5	21.0	.7			48							
Minimum.	3	6.9	69.2	27.7	26.6	8.2			76							
Maximum.	3	8.5	68.9	24.9	23.9	8.3			66							
Flank, lean:																
Edible portion—																
Minimum.	3	66.0	20.4	19.4	7.8				71							
Maximum.	3	70.8	21.4	20.4	13.7				96							
Average.	3	67.8	20.6	19.9	11.3				86							
As purchased—		64.5	20.1	19.0	7.8				71							
Minimum.	3	2.3	70.8	21.0	20.4	13.2			93							
Maximum.	3	1.4	66.9	20.5	19.7	11.0			84							
Flank, medium fat:																
Edible portion—																
Minimum.	5	57.4	18.4	17.4	18.7				1,14							
Maximum.	5	62.2	18.5	18.2	24.3				1,37							
Average.	5	60.2	18.9	17.9	21.0				1,24							
As purchased—		1.1	39.8	11.9	11.6	12.2			73							
Minimum.	5	35.8	61.4	19.3	18.0	24.0			1,35							
Maximum.	5	10.2	54.0	17.0	16.1	19.0			1,11							
Flank, fat:																
Edible portion—																
Minimum.	3	53.5	16.1	15.4	27.2				1,47							
Maximum.	3	54.9	17.8	17.4	30.3				1,58							
Average.	3	54.2	17.1	16.6	28.4				1,51							
As purchased—		49.1	14.8	14.2	26.7				1,44							
Minimum.	3	8.3	54.2	17.0	17.4	27.7			1,49							
Maximum.	3	8.3	52.4	16.5	16.2	27.3			1,46							
Flank, very fat:																
Edible portion—																
Minimum.	2	27.4	12.5	12.0	43.8				2,13							
Maximum.	2	41.9	15.5	13.6	59.9				2,78							
Average.	2	34.7	14.9	13.8	51.8				2,44							

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbo-hydrates.	Ash.	Fuel value per pound.							
				N	× 6.25. By differ- ence.											
ANIMAL FOOD—Continued.																
BEEF, FRESH—continued.																
Flank, very fat—Continued.				P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
As purchased—				2	0.4	24.3	11.0	10.6	43.6							
Minimum .	2	11.5	41.8	15.4	13.5	53.0		.6	2,125							
Maximum .	2	6.0	38.0	18.3	12.0	48.3		.7	2,440							
Average .	2							.7	2,275							
Flank, all analyses:																
Edible portion .	16	5.5	59.3	19.6	18.7	21.1		.9	1,255							
As purchased .	16	5.5	56.1	18.6	17.7	19.9		.8	1,185							
Loin, very lean:																
Edible portion—																
Minimum .	3		70.1	19.5	18.7	1.1		1.0	545							
Maximum .	3		71.3	27.4	27.4	9.0		1.4	745							
Average .	3		70.8	24.6	24.2	2.7		1.2	615							
As purchased—																
Minimum .	3	19.7	49.9	15.5	14.9	.8		.7	395							
Maximum .	3	28.8	57.1	21.5	21.9	7.2		1.1	590							
Average .	3	23.0	54.6	18.8	18.5	8.0		.9	475							
Loin, lean:																
Edible portion—																
Minimum .	12		64.8	18.4	15.1	11.4		.7	735							
Maximum .	12		74.7	24.2	23.1	15.0		1.1	1,000							
Average .	12		67.0	19.7	19.3	12.7		1.0	900							
As purchased—																
Minimum .	11	6.7	52.1	11.9	11.6	10.0		.6	650							
Maximum .	11	21.0	66.2	20.8	19.8	13.0		1.0	865							
Average .	11	12.1	58.2	17.1	16.7	11.1		.9	795							
Loin, medium fat:																
Edible portion—																
Minimum .	32		56.5	10.8	10.6	16.1		.5	1,040							
Maximum .	32		68.3	22.0	22.0	23.7		2.2	1,355							
Average .	32		60.6	18.6	18.3	20.2		1.0	1,190							
As purchased—																
Minimum .	32	4.1	44.4	8.5	8.5	18.7		.4	860							
Maximum .	32	25.8	58.1	19.3	19.1	23.7		1.9	1,300							
Average .	32	12.8	52.5	16.1	15.8	17.5		.9	1,040							
Loin, fat:																
Edible portion—																
Minimum .	6		52.1	16.0	15.8	25.1		.8	1,380							
Maximum .	6		56.9	18.7	17.8	29.6		1.0	1,575							
Average .	6		54.7	17.6	16.8	27.8		.9	1,490							
As purchased—																
Minimum .	6	5.9	44.8	14.1	13.8	28.6		.7	1,205							
Maximum .	6	15.0	53.6	16.5	16.1	25.9		.9	1,400							
Average .	6	10.2	49.2	15.7	15.0	24.8		.8	1,305							
Loin, very fat:																
Edible portion—																
Minimum .	3		46.8	17.2	16.3	31.5		.8	1,650							
Maximum .	3		51.8	18.9	18.5	33.8		.9	1,780							
Average .	3		49.7	17.8	17.1	32.8		.9	1,695							
As purchased—																
Minimum .	3	3.6	40.4	15.1	14.4	27.8		.7	1,455							
Maximum .	3	13.7	49.2	16.8	16.0	30.4		.9	1,590							
Average .	3	9.7	44.9	16.0	15.5	29.1		.8	1,525							
Loin, all analyses:																
Edible portion .	56		61.3	19.0	18.6	19.1		1.0	1,155							
As purchased .	56	18.3	52.0	16.4	16.9	16.9		.9	1,020							
Loin, boneless strip, as purchased: ^a																
Minimum .	6		50.9	16.9	16.0	4.0		.7	515							
Maximum .	6		77.2	25.0	23.7	32.4		1.2	1,680							
Average .	6		66.3	17.8	16.2	16.7		.8	1,085							
Loin, sirloin butt, as purchased: ^a																
Minimum .	6		51.6	17.4	16.6	6.4		.8	665							
Maximum .	6		72.1	22.0	20.5	23.5		1.1	1,630							
Average .	6		62.5	19.7	18.9	17.7		.9	1,115							
Loin, porterhouse steak: ^a																
Edible portion .	7		60.0	21.9	18.6	20.4		1.0	1,270							
As purchased .	7	12.7	52.4	19.1	16.2	17.9		.8	1,110							
Loin, sirloin steak: ^a																
Edible portion .	21		61.9	18.9	18.6	18.5		1.0	1,130							
As purchased .	21	12.8	54.0	16.5	16.2	16.1		.9	985							

^a All loin parts are included under analyses of "loin."

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbo-hydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
BEEF, FRESH—continued.																
Loin, top of sirloin: a		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Edible portion	1	42.2	18.8	13.3	43.7				2,100							
As purchased	1	3.2	40.9	13.3	19.9	42.3			.7							
Loin, tenderloin, as purchased: a																
Minimum	6	58.5	12.2	11.3	17.3				.3							
Maximum	6	66.5	18.3	17.6	20.9				1.554							
Average	6	59.2	16.2	15.6	24.4				1,358							
Loin trimmings: a																
Edible portion	6	55.0	16.9	16.9	28.0				1,486							
As purchased	6	48.8	27.9	8.5	14.7				780							
Loin, free from all visible fat.	2	74.0	22.1	21.7	3.1				544							
Navel, very lean:																
Edible portion	1	68.6	20.7	29.4	.6				598							
As purchased	1	2.9	66.6	29.3	25.5				598							
Navel, medium fat:																
Edible portion	1	47.6	15.6	15.1	36.5				1,836							
As purchased	1	11.4	42.2	18.8	32.3				1,626							
Neck, very lean:																
Edible portion—																
Minimum	3	71.8	21.0	20.3	.7				426							
Maximum	3	74.0	23.4	24.3	4.9				646							
Average	3	73.2	22.8	23.5	2.3				554							
As purchased—																
Minimum	3	22.5	18.8	6.2	6.0				126							
Maximum	3	75.2	57.4	16.2	16.3				434							
Average	3	44.8	40.7	12.8	12.8				326							
Neck, lean:																
Edible portion—																
Minimum	2	69.3	21.3	20.0	8.0				1.0							
Maximum	2	71.0	21.4	20.9	8.7				1.1							
Average	2	70.1	21.4	20.5	8.4				1.0							
As purchased—																
Minimum	2	29.0	48.5	15.0	14.5	5.7			524							
Maximum	2	30.0	50.4	15.1	14.5	6.1			534							
Average	2	29.5	49.5	15.1	14.4	5.9			534							
Neck, medium fat:																
Edible portion—																
Minimum	10	60.5	18.9	18.4	11.5				.8							
Maximum	10	67.8	22.0	20.4	19.8				1.1							
Average	10	63.4	20.1	19.2	16.8				1.0							
As purchased—																
Minimum	10	19.5	37.8	18.0	19.4	8.6			.5							
Maximum	10	37.5	50.8	17.8	16.0	15.4			.8							
Average	10	27.6	45.9	14.5	15.9	11.9			.7							
Neck, all analyses:																
Edible portion	15	66.3	20.7	20.0	12.7				1.0							
As purchased	15	31.2	45.3	14.3	15.6	9.3			.7							
Plate, very lean:																
Edible portion—																
Minimum	3	67.0	19.5	18.8	.6				.9							
Maximum	3	71.5	27.6	26.6	11.9				1.2							
Average	3	69.1	22.8	22.1	7.7				1.1							
As purchased—																
Minimum	3	18.3	25.5	9.8	9.5	.2			.5							
Maximum	3	64.3	50.1	17.3	16.1	8.7			.8							
Average	3	37.4	48.0	18.6	15.2	5.7			.7							
Plate, lean:																
Edible portion—																
Minimum	3	60.8	8.9	8.5	16.5				.4							
Maximum	3	74.5	19.1	17.8	20.8				1.236							
Average	3	65.9	15.6	14.6	18.8				1,044							
As purchased—																
Minimum	3	15.7	51.3	7.2	6.9	13.2			.3							
Maximum	3	19.8	59.8	16.0	14.9	17.5			.7							
Average	3	17.8	54.4	18.6	12.2	15.5			.6							
Plate, medium fat:																
Edible portion—																
Minimum	7	48.7	14.8	14.7	23.2				.7							
Maximum	7	59.9	18.0	16.7	35.6				.9							
Average	7	54.4	16.5	15.7	29.1				.8							

a All loin parts are included under analyses of "loin."

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25	By difference.											
ANIMAL FOOD—Continued.																
BEEF, FRESH—continued.																
Plate, medium fat—Continued.																
As purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	7	13.1	42.2	12.3	12.2	17.6	.....	.6	970					
Maximum	7	24.2	49.0	14.8	14.1	30.9	.....	.8	1,500					
Average	7	16.5	45.8	13.8	13.1	24.4	.....	.7	1,285					
Plate, fat:																
Edible portion—																
Minimum	3	.....	44.4	13.2	16.4	38.0	.....	.7	1,885				
Maximum	3	.....	46.3	15.2	15.4	41.9	.....	.8	2,915				
Average	3	.....	45.2	14.6	14.2	39.8	.....	.8	1,950				
As purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	3	15.0	36.4	11.2	10.6	32.3	.....	.5	1,595					
Maximum	3	17.9	39.2	12.4	12.6	35.6	.....	.7	1,710					
Average	3	16.9	38.0	12.2	11.9	33.5	.....	.6	1,640					
Plate, very fat:																
Edible portion	1	.....	34.6	10.6	9.8	55.1	.....	.5	2,520				
As purchased	1	9.0	31.4	9.7	8.9	50.2	.....	.5	2,300					
Plate, all analyses:																
Edible portion	17	.....	56.3	16.8	16.0	26.9	.....	.8	1,450				
As purchased	17	19.8	44.4	13.1	15.5	23.7	.....	.6	1,200					
Ribs, very lean:																
Edible portion—																
Minimum	4	.....	65.7	21.9	21.1	1.1	.....	.7	455				
Maximum	4	.....	76.3	26.3	27.4	5.6	.....	1.6	755					
Average	4	.....	70.0	24.0	24.4	3.5	.....	1.2	616					
As purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	4	16.5	52.1	16.2	14.7	.7	.....	.5	310					
Maximum	4	31.7	57.8	23.3	22.8	4.6	.....	1.3	616						
Average	4	23.2	54.2	19.4	18.9	2.7	.....	.8	476					
Ribs, lean:																
Edible portion—																
Minimum	6	.....	66.0	16.5	16.9	9.8	.....	.8	790				
Maximum	6	.....	69.5	20.9	20.8	14.0	.....	1.1	955					
Average	6	.....	67.0	19.0	19.1	12.0	.....	1.0	870					
As purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	6	12.8	46.7	12.1	10.4	6.8	.....	.6	555					
Maximum	6	32.6	60.7	17.5	17.1	11.0	.....	.9	750					
Average	6	22.6	52.6	15.1	14.8	9.3	.....	.7	675					
Ribs, medium fat:																
Edible portion—																
Minimum	15	.....	49.0	14.2	15.9	18.0	.....	.7	1,110				
Maximum	15	.....	63.0	18.8	18.1	32.9	.....	1.1	1,700					
Average	15	.....	55.5	17.6	17.0	26.6	.....	.9	1,450				
As purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	15	15.3	46.3	12.2	10.0	12.8	.....	.4	1,700					
Maximum	15	28.7	49.9	14.9	14.6	26.5	.....	.9	1,370					
Average	15	20.5	48.8	13.0	13.5	21.8	.....	.7	1,155					
Ribs, fat:																
Edible portion—																
Minimum	9	.....	47.4	12.0	13.3	33.0	.....	.6	1,710				
Maximum	9	.....	61.7	16.8	16.5	36.8	.....	.9	1,845				
Average	9	.....	48.6	15.0	15.2	33.6	.....	.7	1,780				
As purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	8	14.3	34.3	11.4	10.4	26.8	.....	.5	1,325					
Maximum	8	22.0	47.8	16.0	15.6	36.9	.....	.7	1,750					
Average	8	16.8	39.6	12.7	12.4	36.6	.....	.6	1,525					
Ribs, very fat:																
Edible portion	1	.....	45.9	14.6	14.8	36.7	.....	.6	1,905				
As purchased	1	6.4	42.9	13.7	13.9	36.2	.....	.6	1,780					
Ribs, all analyses:																
Edible portion	35	.....	57.0	17.8	17.5	34.6	.....	.9	1,370				
As purchased	34	20.1	45.3	14.4	15.9	20.6	.....	.7	1,110					
Rib rolls, very lean, as purchased:																
Minimum	2	.....	72.3	19.6	19.6	4.6	.....	1.0	505					
Maximum	2	.....	74.0	22.0	21.1	5.4	.....	1.0	605					
Average	2	.....	73.7	20.8	20.3	5.0	.....	1.0	600					
Rib rolls, lean, as purchased:																
Minimum	3	.....	67.3	19.3	18.5	8.4	.....	.8	745				
Maximum	3	.....	70.5	20.8	20.1	13.3	.....	1.0	920					
Average	3	.....	69.0	20.2	19.5	10.5	.....	1.0	820					
Rib rolls, medium fat, as purchased:																
Minimum	4	.....	60.7	18.5	18.0	15.3	.....	.9	1,010				
Maximum	4	.....	65.6	20.1	19.1	20.4	.....	.9	1,205				
Average	4	.....	63.9	19.3	18.5	16.7	.....	.9	1,065				

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
BEEF, FRESH—continued.																
Rib rolls, fat, as purchased:		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum.....	2	50.5	16.4	16.3	30.5	.....	.....	0.8	1,590					
Maximum.....	2	52.4	18.0	16.6	32.1	.....	.....	0.8	1,690					
Average.....	2	51.5	17.2	16.4	31.3	.....	.....	0.8	1,640					
Rib rolls, all analyses, as purchased.....	11	64.8	19.4	18.8	15.5	.....	.....	0.9	1,015					
Rib trimmings, all analyses:																
Edible portion—																
Minimum.....	11	33.9	11.2	10.7	6.5	.....	.....	5	690					
Maximum.....	11	71.6	22.4	20.9	54.9	.....	.....	1.0	2,525					
Average.....	11	54.7	16.9	16.1	28.4	.....	.....	0.8	1,618					
As purchased—																
Minimum.....	11	20.9	26.8	8.8	3.7	.....	.....	4	39					
Maximum.....	11	44.8	49.2	13.0	12.6	43.5	.....	6	2,000						
Average.....	11	34.1	35.7	11.0	10.5	19.2	.....	5	1,018						
Ribs, cross, very lean:																
Edible portion.....	1	65.8	18.0	18.4	14.0	.....	.....	0.9	960					
As purchased.....	1	12.8	57.4	15.6	16.1	13.0	.....	0.7	840						
Ribs, cross, medium fat:																
Edible portion.....	1	43.9	13.8	13.7	41.6	.....	.....	0.8	2,010					
As purchased.....	1	12.2	38.6	12.1	12.0	36.5	.....	0.7	1,780						
Ribs, cross, all analyses:																
Edible portion.....	2	54.9	15.9	16.1	28.2	.....	.....	0.8	1,480					
As purchased.....	2	12.5	48.0	13.8	14.0	24.8	.....	0.7	1,304						
Round, very lean:																
Edible portion—																
Minimum.....	6	72.2	21.1	21.1	1.1	.....	.....	1.0	450					
Maximum.....	6	75.4	24.6	24.4	4.5	.....	.....	1.0	600					
Average.....	6	73.6	22.6	22.3	2.8	.....	.....	1.0	544					
As purchased—																
Minimum.....	6	3.4	61.5	18.4	18.5	.9	.....	1.0	42						
Maximum.....	6	17.4	72.8	21.0	21.4	3.7	.....	1.0	530						
Average.....	6	10.6	65.9	20.2	19.9	2.4	.....	1.0	471						
Round, lean:																
Edible portion—																
Minimum.....	31	65.8	18.8	19.0	5.1	.....	.....	0.8	580					
Maximum.....	31	73.6	24.1	23.8	10.0	.....	.....	1.0	830					
Average.....	31	70.0	21.8	21.0	7.9	.....	.....	1.1	734					
As purchased—																
Minimum.....	29	2.8	57.2	17.4	16.9	4.6	.....	0.8	560						
Maximum.....	29	17.3	68.8	22.9	22.6	9.4	.....	1.0	790						
Average.....	29	8.1	64.4	19.5	19.2	7.3	.....	1.0	674						
Round, medium fat:																
Edible portion—																
Minimum.....	18	61.9	18.6	18.6	10.6	.....	.....	0.9	830					
Maximum.....	18	68.4	22.4	21.6	17.8	.....	.....	1.0	1,090					
Average.....	18	65.5	20.8	19.8	13.6	.....	.....	1.0	954					
As purchased—																
Minimum.....	14	1.2	57.2	17.4	16.8	10.1	.....	0.8	790						
Maximum.....	14	11.2	65.9	21.6	20.9	16.6	.....	1.0	1,070						
Average.....	14	7.2	60.7	19.0	18.3	12.8	.....	1.0	894						
Round, fat:																
Edible portion—																
Minimum.....	5	57.8	18.3	17.9	16.7	.....	.....	0.9	1,050					
Maximum.....	5	64.5	21.4	20.9	22.3	.....	.....	1.0	1,300					
Average.....	5	60.4	19.5	19.1	19.5	.....	.....	1.0	1,184					
As purchased—																
Minimum.....	3	6.0	47.8	16.7	16.1	14.7	.....	0.8	940						
Maximum.....	3	20.0	58.0	18.8	18.5	18.5	.....	0.9	1,130						
Average.....	3	12.0	54.0	17.5	17.1	16.1	.....	0.8	1,004						
Round, very fat:																
Edible portion—																
Minimum.....	2	54.9	17.2	16.7	24.7	.....	.....	0.7	1,400					
Maximum.....	2	56.8	19.1	17.6	27.7	.....	.....	0.9	1,490					
Average.....	2	55.9	18.3	17.1	26.2	.....	.....	0.8	1,445					
As purchased—																
Minimum.....	2	6.4	45.9	14.4	13.9	23.1	.....	0.6	1,240						
Maximum.....	2	16.4	53.2	17.8	16.5	23.2	.....	0.8	1,300						
Average.....	2	11.4	49.6	16.1	15.8	23.1	.....	0.7	1,274						
Round, all analyses:																
Edible portion.....	62	67.8	20.9	20.5	16.6	.....	.....	1.1	830					
As purchased.....	54	8.5	62.6	19.3	18.8	9.2	.....	1.0	740						
Round, free from all visible fat.....	4	78.5	28.2	22.8	2.5	.....	.....	1.2	580					

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
BEEF, FRESH—continued.																
Round, second cut:				P. et.	P. et.	P. et.	P. et.	P. et.	Cals.							
Edible portion—				2	68.5	20.1	30.4	8.5	1.0							
Minimum				2	68.5	20.1	30.4	8.5	735							
Maximum				2	70.0	20.7	30.6	8.6	1.3							
Average				2	69.8	20.4	30.5	8.6	740							
As purchased—				2	6.9	47.2	14.1	14.0	.9							
Minimum				2	6.9	47.2	14.1	14.0	505							
Maximum				2	32.1	65.2	18.7	19.0	8.0							
Average				2	19.5	58.2	16.4	16.5	645							
Rump, very lean:				P. et.	P. et.	P. et.	P. et.	P. et.								
Edible portion—				4	68.8	21.7	21.8	.7	1.1							
Minimum				4	68.8	21.7	21.8	.7	520							
Maximum				4	74.2	26.5	25.9	8.9	1.4							
Average				4	71.2	23.0	22.5	8.1	645							
As purchased—				4	1.5	51.4	18.0	17.8	1.0							
Minimum				4	28.6	67.8	21.5	20.9	765							
Maximum				4	14.3	60.9	19.5	19.1	1.1							
Rump, lean:				P. et.	P. et.	P. et.	P. et.	P. et.								
Edible portion—				4	62.1	17.5	17.7	10.0	.9							
Minimum				4	62.1	17.5	17.7	10.0	840							
Maximum				4	68.3	22.7	21.5	17.7	1.1							
Average				4	65.7	20.9	19.6	18.2	945							
As purchased—				3	1.5	46.8	14.5	15.8	.7							
Minimum				3	31.5	66.4	22.0	21.8	1.1							
Maximum				3	14.0	56.6	19.1	17.5	1.0							
Rump, medium fat:				P. et.	P. et.	P. et.	P. et.	P. et.								
Edible portion—				10	52.4	16.0	15.8	20.3	.8							
Minimum				10	60.3	19.5	18.1	29.9	1.0							
Maximum				10	54.7	17.4	16.9	25.5	9.9							
Average				10	59.7	18.8	17.5	20.8	1,440							
As purchased—				10	6.6	39.9	11.8	11.5	.6							
Minimum				10	27.8	52.8	15.8	25.0	9.9							
Maximum				10	20.7	45.0	13.8	15.4	1,116							
Rump, fat:				P. et.	P. et.	P. et.	P. et.	P. et.								
Edible portion—				5	42.1	14.7	14.5	33.3	.7							
Minimum				5	49.9	22.7	22.4	39.4	1.2							
Maximum				5	47.1	16.8	16.4	35.7	8.8							
Average				5	47.9	38.5	10.7	10.9	1,716							
As purchased—				5	31.3	39.7	17.6	17.4	9.9							
Minimum				5	28.0	56.2	12.9	12.6	1,440							
Rump, very fat:				P. et.	P. et.	P. et.	P. et.	P. et.								
Edible portion				1	40.2	15.0	14.7	44.8	.8							
As purchased				1	16.2	33.7	12.6	12.3	6.6							
Rump, all analysis:				P. et.	P. et.	P. et.	P. et.	P. et.								
Edible portion				24	57.9	18.7	18.1	23.1	.9							
As purchased				23	19.0	46.9	15.2	14.7	8.8							
Rump, free from all visible fat:				P. et.	P. et.	P. et.	P. et.	P. et.								
Shank, fore, very lean:				1	73.9	21.2	21.9	3.8	1.1							
Edible portion—				4	73.5	21.3	20.8	1.5	1.0							
Minimum				4	75.9	22.9	22.7	4.0	1.2							
Maximum				4	74.4	22.1	21.7	2.8	1.1							
Average				4	75.0	24.5	23.6	3.0	1.3							
As purchased—				4	35.9	38.5	10.5	10.6	.5							
Minimum				4	50.4	47.9	13.9	15.6	7.7							
Maximum				4	44.1	41.6	12.3	12.1	6.6							
Shank, fore, lean:				P. et.	P. et.	P. et.	P. et.	P. et.								
Edible portion—				5	68.9	20.9	20.1	5.3	.9							
Minimum				5	73.2	24.4	25.5	7.9	1.1							
Maximum				5	71.5	22.0	21.4	6.1	1.0							
Average				5	70.6	24.4	21.6	6.9	1.0							
As purchased—				5	25.6	36.4	11.5	11.7	.6							
Minimum				5	48.0	52.3	18.1	17.4	8.8							
Maximum				5	38.5	48.4	14.0	13.6	5.6							
Average				5	42.6	48.4	14.0	13.6	4.8							

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbo-hydrates.	Ash.	Fuel value per pound.							
				N	× 25. P. et.											
ANIMAL FOOD—Continued.																
BEEF, FRESH—continued.																
Shank, fore, medium fat:																
Edible portion—																
Minimum	5		65.5	19.9	19.9	9.9		0.9	806							
Maximum	5		70.0	21.0	20.8	14.2		1.6	970							
Average	6		67.9	20.4	19.6	11.6		0.9	876							
As purchased—																
Minimum	5	33.0	39.3	11.9	11.6	6.1		.6	406							
Maximum	5	40.0	45.8	18.4	13.1	8.5		.6	585							
Average	5	36.9	42.9	12.8	12.3	7.3		.6	545							
Shank, fore, very fat:																
Edible portion	1		59.0	20.1	18.6	21.6		.6	1,206							
As purchased	1	30.9	40.7	18.9	18.9	14.9		.6	906							
Shank, fore, all analyses:																
Edible portion	15		70.3	21.4	20.7	8.1		.6	746							
As purchased	15	38.3	48.2	18.2	18.7	8.3		.6	406							
Shank, hind, very lean:																
Edible portion	1		71.2	28.6	25.8	1.7		1.3	565							
As purchased	1	50.0	56.6	18.8	18.9	.8		.7	280							
Shank, hind, lean:																
Edible portion—																
Minimum	6		71.3	29.8	20.4	4.2		.9	590							
Maximum	5		73.6	28.1	21.6	7.3		1.2	715							
Average	6		72.9	21.9	21.1	5.4		1.0	685							
As purchased—																
Minimum	6	50.0	22.8	8.6	6.7	1.7		.8	205							
Maximum	6	58.3	36.4	11.2	10.7	3.2		.5	315							
Average	6	53.5	30.1	9.1	8.8	2.2		.4	266							
Shank, hind, medium fat:																
Edible portion—																
Minimum	6		65.3	19.0	18.6	9.6		.8	200							
Maximum	6		69.5	21.8	20.6	15.4		1.6	1,086							
Average	6		67.8	20.9	19.8	11.6		.9	875							
As purchased—																
Minimum	6	52.0	29.8	8.8	6.6	4.5		.4	370							
Maximum	6	56.0	33.1	10.1	9.6	7.1		.4	400							
Average	6	53.9	31.8	9.6	9.1	5.3		.4	406							
Shank, hind, fat:																
Edible portion	1		61.4	20.4	18.2	18.2		.9	1,170							
As purchased	1	51.6	29.7	8.6	9.9	9.1		.4	570							
Shank, hind, all analyses:																
Edible portion	14		60.6	21.7	20.7	8.7		1.0	776							
As purchased	14	55.4	31.0	9.7	9.3	3.9		.4	345							
Shoulder and clod, very lean:																
Edible portion—																
Minimum	4		75.1	20.8	20.4	.8		1.1	420							
Maximum	4		77.7	21.6	22.4	1.5		1.2	460							
Average	4		76.1	21.3	21.5	1.2		1.1	450							
As purchased—																
Minimum	4	12.5	46.1	12.8	12.5	.6		.7	275							
Maximum	4	26.8	65.8	18.8	19.6	1.2		1.0	395							
Average	4	22.3	58.3	16.8	16.5	1.0		.9	345							
Shoulder and clod, lean:																
Edible portion—																
Minimum	5		71.4	18.2	19.7	4.7		1.0	555							
Maximum	5		74.5	22.1	21.9	6.7		1.1	680							
Average	5		73.1	20.4	20.4	5.4		1.1	665							
As purchased—																
Minimum	4	5.6	29.4	9.2	9.3	2.6		.6	220							
Maximum	4	58.4	34.3	19.3	19.3	6.1		1.1	615							
Average	4	18.8	59.4	16.4	16.5	4.4		.9	490							
Shoulder and clod, medium fat:																
Edible portion—																
Minimum	14		64.0	17.4	17.3	7.1		.8	625							
Maximum	14		74.5	20.7	20.7	16.4		1.4	1,030							
Average	14		68.8	19.6	19.3	11.3		1.1	840							
As purchased—																
Minimum	12	7.0	50.7	14.5	14.3	5.6		.7	536							
Maximum	12	27.7	62.3	18.6	18.4	14.4		1.1	925							
Average	12	16.4	58.8	16.4	16.1	9.8		.9	720							

a The "clod" usually contains no refuse.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
BEEF, FRESH—continued.																
Shoulder and clod, fat:																
Edible portion—																
Minimum	5		56.2	18.1	17.1	18.5		0.9	1,126							
Maximum	5		62.1	21.9	21.0	21.6		1.2	1,326							
Average	5		60.4	19.5	18.8	19.8		1.0	1,206							
As purchased—																
Minimum	2	11.0	49.9	17.7	14.8	16.5		.8	1,026							
Maximum	3	12.3	54.8	19.4	18.6	19.2		1.0	1,176							
Average	3	11.9	52.5	17.7	16.7	17.7		.9	1,074							
Shoulder and clod, all analyses:																
Edible portion	28		66.9	20.9	19.7	19.8		1.1	804							
As purchased	23	17.4	57.6	16.5	16.3	8.4		.9	666							
Shoulder, free from all visible fat:	1		74.6	21.6	21.5	2.7		1.2	514							
Socket:																
Edible portion	1		57.1	16.9	16.7	25.2		1.0	1,326							
As purchased	1	35.8	36.7	16.8	19.7	16.2		.6	886							
Forequarter, very lean:																
Edible portion—																
Minimum	2		72.3	21.9	20.8	1.1		.9	406							
Maximum	2		76.0	22.3	21.8	6.6		1.1	666							
Average	2		74.1	22.1	21.3	3.6		1.0	561							
As purchased—																
Minimum	2	23.2	47.5	14.6	13.7	.7		.7	286							
Maximum	2	37.4	55.5	16.8	16.0	4.6		.7	586							
Average	2	30.8	51.5	15.4	14.8	2.7		.7	446							
Forequarter, lean:																
Edible portion—																
Minimum	4		67.5	16.5	16.1	11.4		.7	811							
Maximum	4		71.1	20.0	19.4	12.7		.9	914							
Average	4		68.6	18.9	19.4	12.2		.8	864							
As purchased—																
Minimum	4	19.7	52.1	12.4	12.1	8.7		.5	611							
Maximum	4	24.9	54.2	16.0	15.5	10.6		.7	726							
Average	4	22.8	53.8	14.7	14.3	9.6		.6	671							
Forequarter, medium fat:																
Edible portion—																
Minimum	10		64.1	17.2	15.9	17.1		.8	1,077							
Maximum	10		68.6	19.1	18.4	27.6		1.0	1,486							
Average	10		66.4	17.9	17.5	21.4		.9	1,228							
As purchased—																
Minimum	10	16.8	44.1	12.7	12.2	18.6		.6	866							
Maximum	10	23.9	51.9	15.8	14.6	22.5		.8	1,218							
Average	10	18.7	49.1	14.5	14.0	17.8		.7	1,010							
Forequarter, fat:																
Edible portion	1		53.5	15.9	15.8	20.0		.7	1,566							
As purchased	1	21.7	41.9	12.5	12.4	23.4		.6	1,228							
Forequarter, very fat:																
Edible portion	1		44.6	15.6	14.0	40.7		.7	1,986							
As purchased	1	12.6	41.5	12.4	13.6	31.7		.6	1,377							
Forequarter, all analyses:																
Edible portion	18		62.5	18.8	17.7	18.9		.9	1,126							
As purchased	18	20.6	49.5	14.4	14.1	15.1		.7	996							
Hind quarter, very lean:																
Edible portion—																
Minimum	2		71.7	21.8	20.8	1.1		1.1	53							
Maximum	2		72.4	26.3	25.8	5.8		1.4	65							
Average	2		72.0	24.0	23.3	3.5		1.2	59							
As purchased—																
Minimum	2	18.8	55.1	17.8	16.9	.8		.5	41							
Maximum	2	23.2	58.7	20.1	19.9	4.8		1.0	53							
Average	2	21.0	56.9	19.0	18.4	2.8		.9	47							
Hind quarter, lean:																
Edible portion—																
Minimum	4		54.6	19.3	18.8	12.2		1.0	59							
Maximum	4		67.5	20.6	19.5	14.9		1.0	69							
Average	4		66.3	20.0	19.3	13.4		1.0	68							
As purchased—																
Minimum	4	16.2	53.8	16.0	15.6	10.2		.8	75							
Maximum	4	17.0	56.5	17.3	16.3	12.4		.9	81							
Average	4	16.6	55.8	16.7	16.1	11.3		.8	78							

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.26.	By difference.											
ANIMAL FOOD—Continued.																
BEEF, FRESH—continued.																
Hind quarter, medium fat:																
Edible portion—																
Minimum	11		55.7	17.2	15.9	16.8		0.8	1,070							
Maximum	11		63.9	19.5	18.7	26.6		1.0	1,430							
Average	11		59.8	18.8	17.7	21.6		.9	1,250							
As purchased—																
Minimum	11	13.8	44.4	18.7	19.6	14.3		.6	910							
Maximum	11	20.2	54.3	16.5	15.8	22.6		.8	1,205							
Average	11	15.7	50.4	15.4	14.9	18.3		.7	1,060							
Hind quarter, fat:																
Edible portion	1		52.1	17.7	16.4	30.7		.8	1,625							
As purchased	1	12.4	45.6	15.5	14.4	26.9		.7	1,425							
Hind quarter, all analyses:																
Edible portion	18		62.2	19.2	18.6	18.3		.9	1,130							
As purchased	18	16.3	52.0	16.1	16.5	15.4		.8	950							
Sides, very lean:																
Edible portion—																
Minimum	2		72.4	21.8	20.8	1.1		.9	500							
Maximum	2		73.8	24.3	23.9	5.9		1.2	635							
Average	2		73.1	23.0	22.5	3.5		1.1	575							
As purchased—																
Minimum	2	21.2	51.1	16.9	16.4	.7		.7	345							
Maximum	2	30.7	57.0	17.2	16.6	4.7		.9	520							
Average	2	26.0	54.0	17.0	16.5	2.7		.8	480							
Sides, lean:																
Edible portion—																
Minimum	4		66.5	17.6	17.1	12.3		.8	905							
Maximum	4		67.5	20.3	19.5	14.8		1.0	950							
Average	4		67.2	19.3	18.7	13.2		.9	915							
As purchased—																
Minimum	4	18.0	52.9	13.9	13.6	10.1		.6	730							
Maximum	4	20.8	55.3	16.5	15.8	11.7		.8	755							
Average	4	19.5	54.1	15.5	15.1	10.6		.7	735							
Sides, medium fat:																
Edible portion—																
Minimum	11		54.8	17.2	16.5	15.7		.8	1,020							
Maximum	11		64.9	19.3	18.6	27.1		.9	1,485							
Average	11		59.7	18.1	17.4	22.0		.9	1,265							
As purchased—																
Minimum	11	15.5	44.2	12.9	13.7	12.7		.7	830							
Maximum	11	21.8	53.1	15.8	15.1	21.9		.8	1,185							
Average	11	17.4	49.4	14.8	14.4	18.1		.7	1,040							
Sides, very fat:																
Edible portion	1		47.8	16.2	15.1	36.4		.7	1,825							
As purchased	1	13.2	41.5	14.0	15.1	31.6		.6	1,595							
Sides, all analyses:																
Edible portion	18		62.2	18.8	18.1	18.8		.9	1,145							
As purchased	18	18.6	50.5	15.2	14.7	15.5		.7	935							
Miscellaneous cuts, free from all visible fat:	11		73.8	22.4	22.1	2.9		1.2	540							
Clear fat	7		13.4	4.1	4.1	82.1		.4	3,540							
Soup stock	1		80.1	.....	5.8	1.5		3.6	170						
BEEF ORGANS.																
Brain, edible portion	1		80.6	8.8	9.0	9.8		1.1	556							
Heart:																
Edible portion—																
Minimum	2		56.5	15.7	15.8	14.6		.9	920							
Maximum	2		68.7	16.3	16.3	26.2		1.0	1,395							
Average	2		62.6	16.0	16.0	20.4		1.0	1,180							
As purchased	1	5.9	53.2	14.8	15.3	24.7		.9	1,320							
Kidney:																
Edible portion—																
Minimum	3		75.7	15.8	16.1	2.4		1.1	420							
Maximum	3		78.7	17.1	17.6	7.1		1.2	595							
Average	3		76.7	16.6	16.9	4.8		1.2	520							
As purchased	1	19.9	63.1	13.7	14.1	1.9		1.0	235							
Beef liver:																
Edible portion—																
Minimum	6		69.5	18.1	18.8	3.3	1.0	1.2	520							
Maximum	6		75.0	23.1	23.4	5.7	3.5	2.5	670							
Average	6		71.2	20.4	21.0	4.5	1.7	1.0	605							
As purchased	1	7.3	65.6	20.2	20.3	3.1	2.5	1.2	555							

a Includes those given under "thick," "round," "loin," etc.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrate.	Ash.	Fuel value per pound.							
				N X 6.25.	By difference.											
ANIMAL FOOD—Continued.																
BEEF ORGANS—continued.																
Lungs, as purchased	1	P. ot.	P. ot.	P. ot.	P. ot.	P. ot.	P. ot.	P. ot.	Oals.							
Marrow, as purchased	1		78.7	16.6	16.1	3.2	.....	1.0	445						
Sweetbreads, as purchased	1		2.3	2.2	2.6	0.8	.....	1.0	2,965						
Suet, as purchased:			70.9	16.5	15.4	12.1	.....	1.0	425						
Minimum	9		4.3	1.1	1.0	70.7	.....	.2	8,110					
Maximum	9		21.9	7.5	7.2	94.5	.....	.7	4,016					
Average	9		18.7	4.7	4.2	81.8	.....	.5	8,540					
Tongue:																
Edible portion:																
Minimum	3		63.5	17.0	17.4	.8	.....	.9	445					
Maximum	3		76.1	22.2	21.9	19.8	.....	1.1	1,075						
Average	3		76.8	18.9	19.0	9.3	.....	1.0	760						
As purchased:																
Minimum	2	9.2	32.4	7.8	7.2	.7	.....	.4	318					
Maximum	2	55.2	68.2	20.2	19.9	15.3	.....	1.0	912						
Average	2	26.5	51.8	14.1	14.8	6.7	.....	.8	545					
BEEF, COOKED.																
Cut not given, boiled, as purchased	1		28.1	26.2	26.1	34.9	.....	.2	2,935					
Scraps, as purchased:																
Minimum	2		4.5	10.3	10.0	27.7	.....	.7	1,000					
Maximum	2		41.9	26.4	24.8	75.8	.....	6.2	2,500						
Average	2		22.2	21.4	21.6	51.7	.....	3.8	2,300						
Roast, as purchased:																
Minimum	7		38.7	18.1	14.5	19.6	.....	.7	1,210					
Maximum	7		59.5	29.0	29.7	41.4	.....	2.7	2,030						
Average	7		48.8	22.8	21.9	28.6	.....	1.8	1,630						
Pressed, as purchased	1		44.1	23.6	26.7	27.7	.....	1.5	1,610						
Round steak, fat removed, as purchased:																
Minimum	18		58.5	19.4	20.3	3.8	.....	1.1	618						
Maximum	18		72.3	24.1	34.1	16.9	.....	2.1	1,170						
Average	18		68.0	27.0	27.5	7.7	.....	1.8	840						
Sirloin steak, baked, as purchased	1		58.7	22.0	24.7	10.2	.....	1.4	970						
Loin steak, tenderloin, broiled, edible portion:																
Minimum	6		42.7	19.8	20.6	11.8	.....	1.0	825						
Maximum	6		64.5	26.7	26.6	35.7	.....	1.4	1,675						
Average	6		64.8	23.6	23.6	26.4	.....	1.2	1,300						
Sandwich meat, as purchased:																
Minimum	2		56.3	27.1	27.6	8.6	.....	2.5	870						
Maximum	2		61.2	26.8	25.2	12.8	.....	2.1	1,070						
Average	2		58.6	26.8	27.0	11.8	.....	2.0	905						
BEEF, CANNED.																
Boiled beef, as purchased	1		51.8	25.5	24.4	22.8	.....	1.0	1,425						
Cheek, ox, as purchased	1		64.1	23.2	22.2	5.4	.....	2.2	700						
Chili-con-carne, as purchased	1		75.4	13.2	13.2	4.6	4.9	2.7	615							
Collops, minced, as purchased	1		72.8	17.8	17.9	6.6	1.1	1.0	640							
Corned beef:																
Minimum	15		43.2	20.7	19.6	11.7	.....	2.0	1,000						
Maximum	15		56.3	35.1	34.3	31.1	.....	7.5	1,600						
Average	15		51.8	26.8	25.5	18.7	.....	4.0	1,200						
Dried beef, as purchased:																
Minimum	2		44.2	26.0	27.1	6.1	.....	2.8	825						
Maximum	2		45.8	40.4	40.1	4.8	.....	12.5	925						
Average	2		44.8	39.3	38.6	5.4	.....	13.5	900						
Kidneys, stewed, as purchased:																
Minimum	2		70.9	14.6	.....	4.9	.....	2.1	500					
Maximum	2		72.8	21.1	.....	5.4	4.9	2.0	625						
Average	2		71.8	16.4	.....	5.1	5.1	2.0	580						
Luncheon beef, as purchased	1		52.8	27.8	26.4	15.9	.....	4.5	1,100						
Palates, ox, as purchased:																
Minimum	2		69.6	10.4	15.9	9.4	.....	.4	750					
Maximum	2		73.1	19.3	19.0	10.8	.....	2.0	755						
Average	2		71.4	17.8	17.4	10.0	.....	1.0	755						
Roast beef, as purchased:																
Minimum	4		55.8	20.3	19.3	9.0	.....	1.2	800						
Maximum	4		59.8	20.8	20.6	23.8	.....	1.4	1,075						
Average	4		56.9	25.9	25.0	14.8	.....	1.0	1,100						
Rump steak, as purchased	1		56.3	24.3	23.5	18.7	.....	1.5	1,240						
Sweetbreads, as purchased	1		60.0	20.2	20.5	9.5	.....	2.0	775						

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N X 6.25	By difference.											
ANIMAL FOOD—Continued.																
BEEF, CANNED—continued.																
Tails, ox:																
Edible portion.....	1	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
As purchased.....	1	29.7	47.7	26.3	24.6	6.5	1.2	.8	755							
Tongue, ground, as purchased:																
Minimum	6	42.5	20.1	20.9	21.6	.....	2.9	1,205							
Maximum	6	54.9	23.6	22.8	22.6	.....	6.1	1,756							
Average.....	6	49.9	21.4	21.0	21.1	.....	4.0	1,455							
Tongue, whole, as purchased:																
Minimum	5	42.4	10.8	18.6	15.7	.....	2.0	.8	805						
Maximum	5	57.4	23.4	23.0	22.7	.....	6.2	1,725							
Average.....	5	51.8	19.5	21.5	22.2	.....	4.0	1,340							
Tripe, as purchased:																
Minimum	2	68.9	16.5	16.2	2.6	.....	.4	.4	425					
Maximum	2	80.2	17.0	16.5	14.5	.....	.6	.6	920					
Average.....	2	74.6	16.8	16.4	8.5	.....	.5	.5	670					
BEEF, CORNED AND PICKLED.																
Brisket:																
Edible portion.....	1	50.9	18.3	18.7	24.7	.....	5.7	1,300							
As purchased.....	1	21.4	40.0	14.4	14.7	19.4	4.5	4.5	1,000							
Flank:																
Edible portion—																
Minimum	2	43.2	13.1	19.9	24.9	.....	2.8	1,350							
Maximum	2	56.5	16.1	15.5	41.1	.....	3.1	1,980							
Average.....	2	49.9	14.6	14.2	23.8	.....	2.9	1,664							
As purchased—																
Minimum	2	9.6	39.0	11.8	11.7	21.2	2.5	1,154								
Maximum	2	14.6	48.3	13.8	13.2	37.2	2.7	1,794								
Average.....	2	12.1	48.7	12.9	12.4	29.2	2.6	1,474								
Plate:																
Edible portion.....	1	40.1	13.7	13.5	41.9	.....	4.7	2,020							
As purchased.....	1	14.5	34.3	11.7	11.4	35.8	4.0	4.0	1,734							
Rump:																
Edible portion—																
Minimum	3	50.2	13.3	13.3	13.0	.....	2.0	.8	880						
Maximum	3	65.9	17.8	18.1	30.2	.....	4.9	1,554							
Average.....	3	58.1	15.3	15.3	23.8	.....	3.3	1,274							
As purchased—																
Minimum	3	5.0	47.5	12.6	19.6	12.1	1.9	.8	814							
Maximum	3	7.7	60.8	16.4	16.7	28.5	4.7	1,464								
Average.....	3	6.0	54.5	14.3	14.4	22.0	3.1	1,194								
Extra family beef:																
Edible portion.....	1	37.0	12.3	11.8	47.2	.....	4.0	2,224							
As purchased.....	1	10.4	33.1	11.1	10.6	42.8	3.6	3.6	1,990							
Mess beef, salted:																
Edible portion—																
Minimum	2	31.7	11.3	10.6	40.2	.....	4.1	1,951							
Maximum	2	42.4	13.8	13.3	48.7	.....	9.0	2,261							
Average.....	2	37.0	12.6	12.0	44.5	.....	6.5	2,114							
As purchased—																
Minimum	2	7.1	29.5	10.5	9.8	34.6	3.5	1,684								
Maximum	2	13.8	36.6	11.9	11.5	45.3	3.8	2,104								
Average.....	2	10.5	33.0	11.2	10.7	39.9	5.9	1,894								
Corned beef, all analyses:																
Edible portion.....	10	53.6	15.6	15.3	26.2	.....	4.9	1,394							
As purchased.....	10	8.4	49.2	14.3	14.0	28.8	4.6	4.6	1,271							
Spiced beef, rolled, as purchased.																
Tongue, pickled:																
Edible portion—																
Minimum	2	50.9	8.3	8.0	15.3	.....	3.1	.8	804						
Maximum	2	73.6	17.3	17.0	25.8	.....	6.3	1,410							
Average.....	2	62.8	12.8	12.5	20.5	.....	4.7	1,104							
As purchased—																
Minimum	2	2.1	45.8	8.2	7.8	15.0	3.1	.8	784							
Maximum	2	10.0	72.0	15.6	15.3	23.3	5.6	5.6	1,271							
Average.....	2	6.0	58.9	11.9	11.6	19.2	4.8	4.8	1,034							
Tripe, as purchased:																
Minimum	4	.....	7.1	7.2	.9	0.4	.1	.1	184						
Maximum	4	.....	91.1	18.6	18.3	1.8	.5	.4	331						
Average.....	4	.....	86.5	11.7	11.8	1.2	.3	.3	274						

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrate.	Ash.	Fuel value per pound.							
				N X	6.25.											
				By difference.	Fat.											
ANIMAL FOOD—Continued.																
BEEF, DRIED, ETC.																
Dried, salted, and smoked:																
Edible portion—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	7	24.3	24.4	24.4	24.4	2.8	6.3	570								
Maximum	7	65.4	47.8	47.0	11.8	2.7	16.9	920								
Average	7	54.3	30.0	29.7	6.5	(3).4	9.1	840								
As purchased—																
Minimum	2	4.4	52.2	25.6	26.0	6.0	7.8	760								
Maximum	2	5.0	55.1	27.3	26.7	7.8	10.0	805								
Average	2	4.7	53.7	26.4	25.3	6.9	8.9	780								
VEAL, FRESH.																
Breast, very lean:																
Edible portion	1	73.2	23.1	23.1	23.1	2.5	1.2	585								
As purchased	1	46.8	38.9	12.3	18.5	1.3	.7	285								
Breast, lean:																
Edible portion—																
Minimum	3	68.4	19.6	18.8	8.0	1.0	700									
Maximum	3	72.2	22.9	22.5	8.0	1.1	765									
Average	3	70.8	21.2	20.7	8.0	1.0	730									
As purchased—																
Minimum	3	15.1	46.8	15.4	15.7	5.5	.7	525								
Maximum	3	21.6	61.3	16.0	16.6	6.8	.8	595								
Average	3	20.4	54.0	15.7	16.1	6.2	.7	560								
Breast, medium fat:																
Edible portion—																
Minimum	5	65.1	10.1	18.2	12.0	1.0	870									
Maximum	5	68.4	19.9	19.4	15.4	1.0	1,010									
Average	5	66.4	19.4	18.8	18.8	1.0	930									
As purchased—																
Minimum	5	15.7	48.5	14.2	14.6	9.4	.7	680								
Maximum	5	25.4	55.7	16.9	16.2	12.8	.8	855								
Average	5	20.6	52.7	15.6	14.9	11.0	.8	740								
Breast, all analyses:																
Edible portion	8	66.2	20.3	19.8	11.0	1.0	840									
As purchased	8	24.5	51.3	15.3	14.8	8.6	.8	645								
Chuck, lean:																
Edible portion	1	76.3	.....	20.6	1.9	1.2	465								
As purchased	1	19.0	61.8	.....	16.7	1.6	.9	380							
Chuck, medium fat:																
Edible portion—																
Minimum	6	71.5	19.1	18.2	5.1	1.0	570									
Maximum	6	75.4	21.1	20.6	8.5	1.0	715									
Average	6	73.8	19.7	19.5	6.5	1.0	640									
As purchased—																
Minimum	6	17.6	57.9	15.4	14.6	4.2	.8	465								
Maximum	6	20.0	61.4	17.1	16.8	6.8	.8	585								
Average	6	18.3	59.5	16.0	15.6	5.2	.8	515								
Chuck, all analyses:																
Edible portion	7	73.8	19.7	19.4	5.8	1.0	610									
As purchased	7	19.0	50.8	16.0	15.7	4.7	.8	495								
Flank, medium fat, as purchased:																
Minimum	5	64.4	19.4	18.5	7.8	.9	600									
Maximum	5	72.7	21.5	21.0	15.8	1.1	1,035									
Average	5	68.9	20.5	19.7	10.4	1.0	820									
Flank, fat, as purchased	1	57.0	18.1	18.0	24.1	.9	1,355									
Flank, all analyses, as purchased	6	66.9	20.1	19.4	12.7	1.0	910									
Leg, lean:																
Edible portion—																
Minimum	9	71.5	20.3	19.5	1.1	1.1	465									
Maximum	9	75.6	22.6	22.5	6.4	1.3	660									
Average	9	73.5	21.8	21.2	4.1	1.2	570									
As purchased—																
Minimum	9	4.5	53.3	16.5	16.5	3.5	.9	445								
Maximum	9	25.5	71.6	21.4	21.4	6.0	1.2	620								
Average	9	9.1	64.8	19.4	19.5	3.7	1.1	530								
Leg, medium fat:																
Edible portion—																
Minimum	10	67.8	18.2	18.2	6.7	1.0	670									
Maximum	10	72.1	21.4	20.7	11.7	1.2	1,780									
Average	10	70.0	20.2	19.8	9.0	1.2	755									
As purchased—																
Minimum	9	6.9	55.7	14.6	14.9	5.5	.9	545								
Maximum	9	19.3	64.4	18.3	18.7	10.9	1.0	1,655								
Average	9	14.2	60.1	15.5	16.9	7.9	.9	620								

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
VEAL, FRESH—continued.																
Leg, all analyses:																
Edible portion.....	19	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
As purchased.....	18	11.7	63.4	18.3	18.1	5.8	.....	1.1	670						
Leg, cutlets:																
Edible portion—																
Minimum.....	3	.....	67.3	20.1	20.1	3.3	.....	1.0	515					
Maximum.....	3	.....	75.4	20.5	21.1	10.6	.....	1.2	830					
Average.....	8	.....	70.7	20.3	20.5	7.7	.....	1.1	705					
As purchased—																
Minimum.....	3	2.1	64.3	19.6	19.6	3.3	.....	.9	505					
Maximum.....	3	4.5	73.8	21.1	20.2	10.1	.....	1.2	790						
Average.....	3	3.4	68.8	20.1	19.8	7.5	.....	1.0	690						
Loin, lean:																
Edible portion—																
Minimum.....	5	.....	71.3	18.8	18.6	4.8	.....	1.0	565					
Maximum.....	5	.....	75.4	21.5	21.0	6.7	.....	1.2	680					
Average.....	5	.....	73.3	20.4	19.9	5.6	.....	1.2	615					
As purchased—																
Minimum.....	5	17.4	53.2	13.4	13.5	3.5	.....	.8	395					
Maximum.....	5	29.0	59.7	17.7	16.8	5.4	.....	1.0	555						
Average.....	5	22.0	57.1	15.9	15.6	4.4	.....	.9	480					
Loin, medium fat:																
Edible portion—																
Minimum.....	6	.....	67.9	18.3	18.1	10.1	.....	1.0	805					
Maximum.....	6	.....	69.7	20.3	20.0	13.0	.....	1.1	890					
Average.....	6	.....	69.0	19.9	19.2	10.8	.....	1.0	825					
As purchased—																
Minimum.....	6	12.2	55.3	16.0	15.4	8.2	.....	.8	645					
Maximum.....	6	20.3	60.1	17.5	16.6	11.4	.....	.9	780					
Average.....	6	16.5	57.6	16.6	16.0	9.0	.....	.9	690					
Loin, fat:																
Edible portion—																
Minimum.....	2	.....	61.3	18.0	18.3	18.3	.....	1.0	1,130					
Maximum.....	2	.....	61.9	19.3	18.7	19.4	.....	1.1	1,155					
Average.....	2	.....	61.6	18.7	18.5	18.9	.....	1.0	1,145					
As purchased—																
Minimum.....	2	16.3	48.9	14.4	14.6	15.4	.....	.8	920					
Maximum.....	2	20.2	51.8	16.2	15.7	15.5	.....	.8	950					
Average.....	2	18.8	50.4	15.3	15.1	15.4	.....	.8	935					
Loin, all analyses:																
Edible portion.....	13	.....	69.5	19.9	19.4	10.0	.....	1.1	790					
As purchased.....	13	18.9	56.3	16.1	15.7	8.2	.....	.9	645					
Loin, with kidney:																
Edible portion.....	1	.....	73.3	14.7	14.1	11.8	.....	.8	770				
As purchased.....	1	9.1	66.7	13.4	12.8	10.7	.....	.7	700					
Neck:																
Edible portion—																
Minimum.....	6	.....	69.8	19.9	18.7	4.3	.....	.9	555				
Maximum.....	6	.....	75.8	20.8	20.0	9.2	.....	1.1	775					
Average.....	6	.....	72.6	20.8	19.5	6.9	.....	1.0	670					
As purchased—																
Minimum.....	6	23.5	34.8	10.4	10.0	3.1	.....	.6	385					
Maximum.....	6	50.0	56.1	15.2	14.5	6.2	.....	.8	540					
Average.....	6	31.5	49.9	13.9	13.3	4.6	.....	.7	455					
Rib, medium fat:																
Edible portion—																
Minimum.....	9	.....	70.4	20.0	19.2	3.4	.....	1.0	530					
Maximum.....	9	.....	75.5	21.7	21.2	9.3	.....	1.2	770					
Average.....	9	.....	72.7	20.7	20.1	6.1	.....	1.1	640					
As purchased—																
Minimum.....	9	12.7	42.2	12.7	12.4	2.5	.....	.7	390					
Maximum.....	9	41.3	64.5	17.3	16.8	6.8	.....	1.1	565						
Average.....	9	25.8	54.8	15.5	15.0	4.6	.....	.8	480					
Rib, fat:																
Edible portion—																
Minimum.....	3	.....	50.1	16.2	17.5	11.1	.....	.9	840				
Maximum.....	3	.....	67.8	20.0	20.0	31.5	.....	1.1	1,630					
Average.....	3	.....	60.9	18.7	18.8	19.3	.....	1.0	1,160					
As purchased—																
Minimum.....	3	22.4	37.4	12.1	13.1	8.6	.....	.6	650					
Maximum.....	3	25.4	52.6	15.5	15.5	23.5	.....	.9	1,215					
Average.....	3	24.8	46.2	14.2	14.2	14.6	.....	.8	875					

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbo-hydrates.	Ash.	Fuel value per pound.							
				N	× 6.25.											
ANIMAL FOOD—Continued.																
VEAL, FRESH—continued.																
Rib, all analyses:				P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Edible portion	12		69.8	20.2	19.7	9.4	.....	1.1	775						
As purchased	12	25.0	52.3	15.2	14.8	7.1	.....	.8	580					
Rump:																
Edible portion	1		62.6	19.8	20.1	16.2	.....	1.1	1,050						
As purchased	1	50.2	43.7	13.8	14.0	11.3	.....	.8	735					
Shank, fore:																
Edible portion—																
Minimum	6		72.5	19.8	18.9	4.1	.....	1.0	540						
Maximum	6		75.8	21.4	20.6	6.4	.....	1.0	655						
Average	6		74.0	20.7	19.8	5.2	.....	1.0	605						
As purchased—																
Minimum	6	20.4	35.1	9.5	9.0	2.2	.....	.5	295					
Maximum	6	52.5	58.6	16.7	16.0	4.2	.....	.8	490					
Average	6	40.4	44.1	12.2	11.8	3.1	.....	.6	380					
Shank, hind, medium fat:																
Edible portion—																
Minimum	6		73.4	18.9	17.9	3.0	.....	.9	520					
Maximum	6		76.2	21.6	20.9	6.7	.....	1.1	635						
Average	6		74.5	20.7	19.9	4.6	.....	1.0	580						
As purchased—																
Minimum	6	61.1	25.9	7.1	6.7	1.2	.....	.4	195					
Maximum	6	64.7	29.3	8.2	8.0	2.5	.....	.4	235					
Average	6	62.7	27.8	7.7	7.4	1.7	.....	.4	215					
Shank, hind, fat:																
Edible portion	1		68.1	20.5	20.0	10.7	.....	1.2	835						
As purchased	1	51.4	33.1	10.0	9.7	5.2	.....	.6	405					
Shank, hind, all analyses:																
Edible portion	7		73.6	20.7	19.9	5.5	.....	1.0	615						
As purchased	7	61.1	28.6	8.0	7.7	2.2	.....	.4	240					
Shoulder, lean:																
Edible portion—																
Minimum	2		71.9	20.7	20.7	3.1	.....	1.2	515						
Maximum	2		74.9	20.7	20.7	6.2	.....	1.3	635						
Average	2		73.4	20.7	20.7	4.6	.....	1.3	580						
As purchased—																
Minimum	2	11.5	56.1	15.5	15.5	2.3	.....	1.0	385						
Maximum	2	25.1	63.7	18.3	18.5	5.5	.....	1.0	570						
Average	2	18.3	59.9	16.9	16.9	3.9	.....	1.0	480						
Shoulder and flank, medium fat:																
Edible portion—																
Minimum	2		64.7	19.3	19.0	13.5	.....	1.1	945						
Maximum	2		65.6	20.1	19.7	15.2	.....	1.2	1,000						
Average	2		65.2	19.7	19.2	14.4	.....	1.1	975						
As purchased—																
Minimum	2	21.8	49.7	15.0	14.8	10.2	.....	.9	715					
Maximum	2	24.3	50.6	15.2	14.9	11.9	.....	.9	785					
Average	2	23.0	50.2	15.1	14.9	11.0	.....	.9	745					
Forequarter:																
Edible portion—																
Minimum	6		69.9	19.5	18.6	5.5	.....	.8	595					
Maximum	6		74.8	20.9	20.5	10.6	.....	1.1	815						
Average	6		71.7	20.0	19.4	8.0	.....	.9	715					
As purchased—																
Minimum	6	19.3	51.8	14.5	13.7	4.1	.....	.6	445					
Maximum	6	26.0	56.6	16.1	15.9	7.8	.....	.8	605					
Average	6	24.5	54.2	15.1	14.6	6.0	.....	.7	535					
Hind quarter:																
Edible portion—																
Minimum	6		68.4	19.6	19.4	5.6	.....	.8	625					
Maximum	6		73.8	20.8	20.4	11.2	.....	1.2	835						
Average	6		70.9	20.7	19.8	8.3	.....	1.0	735						
As purchased—																
Minimum	6	18.0	53.7	15.7	15.5	4.4	.....	.6	495					
Maximum	6	24.0	58.4	18.8	16.2	9.2	.....	.9	695					
Average	6	20.7	56.2	16.2	15.7	6.6	.....	.8	585					
Side, with kidney, fat, and tallow:																
Edible portion—																
Minimum	6		69.2	19.8	19.2	5.5	.....	.9	605					
Maximum	6		74.3	20.7	20.4	10.3	.....	1.1	805						
Average	6		71.3	20.2	19.6	8.1	.....	1.0	715						
As purchased—																
Minimum	6	18.6	53.3	15.4	14.7	4.3	.....	.7	475					
Maximum	6	24.9	57.3	16.1	15.9	8.4	.....	.9	655					
Average	6	22.6	55.2	15.6	15.1	6.8	.....	.8	555					

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N	× 6.25.											
ANIMAL FOOD—Continued.																
VEAL ORGANS.																
Heart, as purchased	1	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals. 720							
Kidneys, as purchased:																
Minimum	2		74.7	16.6	16.4	5.4		1.3	545							
Maximum	2		76.8	17.1	16.6	7.4		1.4	620							
Average	2		75.8	16.9	16.5	6.4		1.3	555							
Liver, as purchased:																
Minimum	2		72.4	18.4	19.8	4.0		1.2	535							
Maximum	2		73.7	19.6	21.0	6.6		1.3	620							
Average	2		73.0	19.0	20.4	5.8		1.3	575							
Lungs, as purchased	1		76.8	17.1	17.1	5.0		1.1	530							
LAMB, FRESH.																
Breast or chuck:																
Edible portion	1		56.2	19.1	19.2	23.6		1.0	1,350							
As purchased	1	19.1	45.5	15.4	15.5	19.1		.8	1,090							
Leg, hind, medium fat:																
Edible portion—																
Minimum	2		63.1	18.7	18.1	15.3		1.1	1,010							
Maximum	2		64.7	19.7	18.9	17.6		1.2	1,090							
Average	2		63.9	19.2	18.5	16.5		1.1	1,066							
As purchased—																
Minimum	2	17.0	52.4	15.5	15.0	12.6		.9	820							
Maximum	2	17.7	53.3	16.2	16.5	14.6		1.0	905							
Average	2	17.4	52.9	15.9	15.2	13.6		.9	870							
Leg, hind, fat:																
Edible portion	1		54.6	18.3	17.1	27.4		.9	1,490							
As purchased	1	13.4	47.3	15.8	14.8	23.7		.8	1,290							
Leg, hind, very fat:																
Edible portion	1		51.8	17.6	17.2	30.1		.9	1,590							
As purchased	1	7.0	48.2	16.4	16.0	28.0		.8	1,480							
Leg, hind, all analyses:																
Edible portion	4		58.6	18.6	17.8	22.6		1.0	1,300							
As purchased	4	13.8	50.3	18.0	15.3	19.7		.9	1,130							
Leg, free from all visible fat, as purchased	1		72.3	25.3	25.6	2.7		1.4	580							
Loin, without kidney and tallow:																
Edible portion—																
Minimum	4		48.6	16.9	15.5	25.1		.8	1,420							
Maximum	4		54.8	20.2	19.0	35.1		1.1	1,795							
Average	4		58.1	18.7	17.6	28.8		1.0	1,540							
As purchased—																
Minimum	4	12.2	40.8	14.2	15.0	21.1		.7	1,200							
Maximum	4	17.4	48.1	17.1	16.7	29.5		.9	1,510							
Average	4	14.8	45.8	16.0	15.0	24.1		.8	1,310							
Neck:																
Edible portion	1		56.7	17.7	17.5	24.8		1.0	1,370							
As purchased	1	17.7	46.7	14.6	14.4	20.4		.8	1,130							
Shoulder:																
Edible portion	1		51.2	18.1	17.5	29.7		1.0	1,590							
As purchased	1	20.3	41.3	14.4	14.0	23.8		.8	1,260							
Forequarter:																
Edible portion	1		55.1	18.3	18.1	25.8		1.0	1,430							
As purchased	1	18.8	44.7	14.9	14.7	21.0		.8	1,160							
Hind quarter:																
Edible portion	1		60.9	19.6	19.0	19.1		1.0	1,170							
As purchased	1	15.7	51.3	16.5	16.0	16.1		.9	980							
Side, without tallow:																
Edible portion—																
Minimum	3		56.8	17.0	17.5	21.2		1.0	1,230							
Maximum	3		60.0	18.9	18.5	25.7		1.1	1,400							
Average	3		58.2	17.6	17.6	23.1		1.1	1,300							
As purchased—																
Minimum	3	17.3	46.1	13.8	13.4	16.6		.8	960							
Maximum	3	21.6	47.9	15.6	15.3	20.9		.9	1,140							
Average	3	19.8	47.0	14.1	14.2	18.7		.8	1,050							
LAMB, COOKED.																
Chops, broiled:																
Edible portion—																
Minimum	4		43.4	19.2	19.2	24.3		1.1	1,490							
Maximum	4		50.4	25.2	25.6	34.7		1.7	1,860							
Average	4		47.6	21.7	21.2	29.9		1.3	1,665							
As purchased	1	13.5	40.1	18.4	18.5	26.7		1.2	1,470							
Cut not given, as purchased	1		47.1	23.7	22.1	29.4		1.4	1,680							
Leg, roast	1		67.1	19.7	19.4	12.7		.8	900							

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refns.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
LAMB, CANNED.																
Tongue, spiced and cooked:				P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Edible portion.....	1			67.4	13.9	14.3	17.8	.....	0.5 1.010						
As purchased.....	1	2.6	65.7	13.5	13.9	17.3	.....	.5 .5	980					
MUTTON, FRESH.																
Chuck, lean:																
Edible portion.....	1		64.7	17.8	18.1	16.3	.....	.9	1.020					
As purchased.....	1	19.5	52.1	14.3	14.5	13.1	.....	.8	820					
Chuck, medium fat:																
Edible portion—																
Minimum.....	6		47.9	14.4	15.6	26.0	.....	.7	1,400					
Maximum.....	6		56.7	16.3	16.4	37.4	.....	1.2	1,845						
Average.....	6		50.9	15.1	14.6	33.6	.....	.9	1,700					
As purchased—																
Minimum.....	6	14.4	36.6	11.2	10.5	20.6	.....	.6	1,110					
Maximum.....	6	25.2	45.1	13.0	18.1	30.6	.....	.9	1,500					
Average.....	6	21.8	39.9	11.9	11.5	26.7	.....	.6	1,350					
Chuck, fat:																
Edible portion—																
Minimum.....	2		37.6	13.7	15.3	42.5	.....	.7	2,055					
Maximum.....	2		43.5	14.0	14.2	47.2	.....	1.0	2,245						
Average.....	2		40.6	13.9	15.7	44.9	.....	.8	2,155					
As purchased—																
Minimum.....	2	14.9	32.0	11.5	10.9	34.8	.....	.6	1,685					
Maximum.....	2	18.1	35.6	11.7	12.1	40.1	.....	.9	1,910					
Average.....	2	16.5	33.8	11.6	11.5	37.5	.....	.7	1,800					
Chuck, very fat:																
Edible portion.....	1		29.9	9.6	9.4	60.1	.....	.8	2,715					
As purchased.....	1	13.8	25.8	8.3	8.1	51.8	.....	.5	2,340					
Chuck, all analyses:																
Edible portion.....	10		48.2	14.6	14.2	36.8	.....	.8	1,825					
As purchased.....	10	19.4	38.5	11.7	11.4	30.0	.....	.7	1,485					
Flank, medium fat:																
Edible portion—																
Minimum.....	8		38.7	12.4	11.9	32.1	.....	.5	1,670					
Maximum.....	8		51.2	17.1	16.0	45.0	.....	.8	2,190					
Average.....	8		46.2	15.2	14.8	38.3	.....	.7	1,900					
As purchased—																
Minimum.....	2	2.2	37.8	12.2	11.8	29.6	.....	.5	1,475					
Maximum.....	2	17.7	40.2	15.3	15.4	44.1	.....	.7	2,145					
Average.....	2	9.9	39.0	13.8	13.6	36.9	.....	.6	1,815					
Flank, very fat, as purchased:																
Minimum.....	2		25.0	8.6	9.5	54.7	.....	.6	2,545					
Maximum.....	2		32.7	12.8	12.0	64.9	.....	.6	2,900					
Average.....	2		28.9	10.7	10.7	59.8	.....	.6	2,725					
Flank, all analyses:																
Edible portion.....	10		42.7	14.3	14.0	42.6	.....	.7	2,065					
As purchased.....	2	9.9	39.0	13.8	13.6	36.9	.....	.6	1,815					
Leg, hind, lean:																
Edible portion—																
Minimum.....	3		66.6	19.3	18.5	11.9	.....	1.1	875						
Maximum.....	3		68.3	20.2	19.6	13.0	.....	1.2	920						
Average.....	3		67.4	19.8	19.7	12.4	.....	1.1	890						
As purchased—																
Minimum.....	3	3.4	51.0	14.7	14.1	9.3	.....	.8	665					
Maximum.....	3	23.7	65.0	19.5	19.0	11.5	.....	1.1	850						
Average.....	3	16.8	56.1	16.5	15.9	10.3	.....	.9	740					
Leg, hind, medium fat:																
Edible portion—																
Minimum.....	11		58.4	17.4	17.3	14.6	.....	.9	955					
Maximum.....	11		65.3	19.4	19.0	22.5	.....	1.0	1,295						
Average.....	11		62.8	18.5	18.2	18.0	.....	1.0	1,105						
As purchased—																
Minimum.....	11	9.8	48.0	13.8	13.4	11.0	.....	.7	730					
Maximum.....	11	26.0	55.7	17.5	17.1	19.3	.....	.9	1,105					
Average.....	11	18.4	51.2	15.1	14.9	14.7	.....	.8	900					
Leg, hind, fat:																
Edible portion.....	1		55.0	17.3	17.0	27.1	.....	.9	1,465					
As purchased.....	1	12.4	48.2	15.2	14.8	23.3	.....	.8	1,290					
Leg, hind, all analyses:																
Edible portion.....	15		63.2	18.7	18.3	17.5	.....	1.0	1,085						
As purchased.....	15	17.7	51.9	15.4	15.1	14.5	.....	.8	900					

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25	By difference.											
ANIMAL FOOD—Continued.																
MUTTON, FRESH—continued.																
Loin, without kidney or tallow, medium fat:				P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Edible portion—				13	44.9	13.7	13.8	25.9								
Minimum				13	55.9	19.6	19.5	37.6	1,480							
Maximum				13	56.2	16.0	15.9	38.1	1,880							
Average				18					1,695							
As purchased—				12	11.7	38.1	11.3	20.9	.5							
Minimum				12	23.8	46.8	14.7	32.9	.9							
Maximum				12	16.0	42.0	13.5	28.3	1,445							
Loin, without kidney or tallow, fat:																
Edible portion—				3	42.0	14.5	13.9	40.9	.7							
Minimum				3	44.3	15.1	14.6	43.3	.8							
Maximum				3	48.8	14.7	14.2	41.7	2,085							
As purchased—				3	11.3	37.1	12.8	36.0	.6							
Minimum				3	12.0	39.3	13.3	38.2	.7							
Maximum				3	11.7	38.8	18.0	36.8	1,770							
As purchased—				12	14.8	40.4	13.1	31.5	.6							
Loin, free fat removed				1	56.5	23.7	23.9	18.5	1,575							
Neck, medium fat:																
Edible portion—				10	54.7	12.8	12.4	17.8	.8							
Minimum				10	61.9	20.0	19.2	29.5	1,126							
Maximum				10	58.1	16.9	16.3	24.6	1,540							
As purchased—				10	17.2	38.4	8.4	8.1	.6							
Minimum				10	34.9	48.6	15.7	15.1	1,280							
Maximum				10	27.4	42.1	12.8	11.9	985							
Neck, very fat:																
Edible portion				1	42.1	13.9	13.6	43.5	.8							
As purchased				1	16.1	35.3	11.7	11.4	2,095							
Neck, all analyses:																
Edible portion				11	56.6	16.7	16.1	26.3	.7							
As purchased				11	26.4	41.5	12.2	11.8	1,760							
Shoulder, lean:																
Edible portion				1	67.2	19.5	18.9	12.9	1,420							
As purchased				1	25.3	50.2	14.6	14.2	905							
Shoulder, medium fat:																
Edible portion—				7	58.6	16.6	15.8	15.6	.9							
Minimum				7	65.2	18.3	18.2	24.3	1,335							
Maximum				7	61.9	17.7	17.3	19.9	1,170							
As purchased—				7	14.6	45.0	12.6	12.1	.6							
Minimum				7	27.2	55.7	15.5	15.5	1,075							
Maximum				7	22.5	47.9	18.7	13.4	910							
Shoulder, fat:																
Edible portion				1	53.0	16.2	15.9	30.3	.8							
As purchased				1	19.5	42.7	13.0	12.8	1,580							
Shoulder, very fat:																
Edible portion				1	48.4	15.6	15.2	35.6	.7							
As purchased				1	18.7	39.3	12.7	12.4	1,455							
Shoulder, all analyses:																
Edible portion				10	60.2	17.5	17.1	21.8	.9							
As purchased				10	22.1	46.8	13.7	15.3	975							
Forequarter:																
Edible portion—				10	37.2	12.1	11.7	17.1	.7							
Minimum				10	64.3	17.2	17.6	50.4	1,040							
Maximum				10	52.9	15.6	15.3	36.9	2,350							
Average				10	15.7	31.4	10.2	9.9	1,595							
As purchased—				10	24.9	50.0	13.8	13.7	.8							
Minimum				10	21.2	41.6	12.3	12.0	1,980							
Maximum				10					1,265							
Hind quarter:																
Edible portion—				10	40.4	13.2	12.9	21.4	.6							
Minimum				10	60.4	18.2	17.4	46.1	1,235							
Maximum				10	54.8	16.7	16.3	28.1	2,190							
Average				10					1,495							

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
MUTTON, FRESH—continued.																
Hind quarter—Continued.																
As purchased—																
Minimum	10	9.8	36.5	11.9	11.6	17.7	.....	0.6	1,020						
Maximum	10	22.4	50.0	15.7	14.7	41.5	.....	.8	1,975					
Average	10	17.2	45.4	13.3	13.5	23.2	.....	.7	1,235					
Side, including tallow:																
Edible portion—																
Minimum	25	.....	47.2	14.5	14.5	14.7	.....	.7	965				
Maximum	25	.....	55.9	18.9	18.4	18.0	.....	1.0	1,860					
Average	25	.....	54.2	16.3	16.0	28.9	.....	.9	1,520				
As purchased—																
Minimum	25	13.0	40.7	12.2	11.7	11.2	.....	.6	730					
Maximum	25	22.8	55.2	14.9	14.4	35.1	.....	.8	1,625					
Average	25	18.1	45.4	18.0	12.7	23.1	.....	.7	1,215					
Side, not including tallow:																
Edible portion—																
Minimum	10	.....	38.8	12.6	12.3	23.3	.....	.7	1,295				
Maximum	10	.....	58.8	17.4	17.4	48.2	.....	.9	2,265				
Average	10	.....	58.6	16.2	15.8	29.8	.....	.8	1,660				
As purchased—																
Minimum	10	12.9	33.8	11.0	10.7	18.1	.....	.6	1,005					
Maximum	10	22.7	47.3	14.7	13.8	42.0	.....	.8	1,975					
Average	10	19.3	43.8	13.0	12.7	24.0	.....	.7	1,255					
MUTTON, COOKED.																
Mutton, leg roast, edible portion:																
Minimum	2	.....	50.8	23.3	22.2	20.5	.....	1.2	1,380					
Maximum	2	.....	51.0	27.8	27.4	24.6	.....	1.3	1,470					
Average	2	.....	50.9	25.0	25.3	22.8	.....	1.2	1,420					
MUTTON, ORGANS.																
Heart, as purchased:																
Minimum	12	.....	67.4	15.8	15.6	11.9	.....	.9	795				
Maximum	12	.....	71.6	18.0	18.5	13.4	.....	.9	890				
Average	12	.....	69.5	16.9	17.0	12.6	.....	.9	845				
Kidneys, as purchased:	1	.....	78.7	16.5	16.8	3.2	.....	1.3	440					
Kidney and kidney fat, as purchased:	1	.....	18.8	6.2	4.3	76.5	.....	.4	3,345				
Kidney fat, as purchased:																
Minimum	2	.....	2.9	1.7	1.1	94.9	.....	.1	4,035				
Maximum	2	.....	3.9	1.8	1.2	95.8	.....	.1	4,075				
Average	2	.....	3.4	1.8	1.1	95.4	.....	.1	4,060				
Liver, as purchased:																
Minimum	2	.....	52.7	23.1	.....	4.7	2.1	1.4	645					
Maximum	2	.....	69.8	24.2	.....	13.2	7.9	2.0	1,155					
Average	2	.....	61.2	23.1	.....	9.0	5.0	1.7	905					
Lungs, as purchased:																
Minimum	2	.....	74.6	19.0	18.8	2.6	.....	1.2	475					
Maximum	2	.....	77.1	21.4	21.5	2.9	.....	1.3	505					
Average	2	.....	75.9	20.2	20.1	2.8	.....	1.2	495					
MUTTON, CANNED.																
Corned, as purchased	1	.....	45.8	28.8	27.2	22.8	.....	4.2	1,500					
Tongue, as purchased	1	.....	47.6	24.4	25.6	24.0	.....	4.8	1,465					
PORK, FRESH.																
Chuck ribs and shoulder:																
Edible portion—																
Minimum	2	.....	50.3	17.2	16.8	30.4	.....	.9	1,605				
Maximum	2	.....	51.9	17.3	16.9	31.9	.....	.9	1,665				
Average	2	.....	51.1	17.3	16.9	31.1	.....	.9	1,635				
As purchased—																
Minimum	2	15.9	40.1	13.7	13.5	25.4	.....	.7	1,325					
Maximum	2	20.3	43.6	14.5	14.1	25.6	.....	.8	1,350					
Average	2	18.1	41.8	14.1	13.8	25.5	.....	.8	1,340					
Flank:																
Edible portion—																
Minimum	3	.....	56.0	17.2	16.2	19.4	.....	.9	1,180				
Maximum	3	.....	60.7	19.5	18.9	28.9	.....	1.0	1,455					
Average	3	.....	59.0	18.5	17.8	22.2	.....	1.0	1,280					
As purchased—																
Minimum	3	11.3	45.4	13.9	12.9	15.0	.....	.6	900					
Maximum	3	23.9	54.0	16.5	15.3	22.0	.....	.8	1,160					
Average	3	18.0	48.6	15.1	14.2	18.6	.....	.7	1,065					

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
PORK, FRESH—continued.																
Ham, fresh, lean:																
Edible portion—																
Minimum	2		55.6	19.8	18.8	13.0		1.0	1,035							
Maximum	2		64.4	30.2	30.2	15.8		1.6	1,110							
Average	2		60.0	25.0	24.3	14.4		1.3	1,075							
As purchased—																
Minimum	2		55.6	19.4	18.5	13.0		.9	1,015							
Maximum	2	1.8	63.3	30.2	29.3	15.5		1.6	1,110							
Average	2	.9	59.4	24.8	24.2	14.2		1.3	1,060							
Ham, fresh, medium fat:																
Edible portion—																
Minimum	10		37.3	9.9	12.8	21.2		.6	1,225							
Maximum	10		60.3	20.3	22.0	39.4		1.3	2,070							
Average	10		53.9	15.8	16.4	28.9		.8	1,565							
As purchased																
Minimum	10	4.6	34.1	8.7	11.3	19.4		.6	1,120							
Maximum	10	14.2	54.7	18.5	20.0	36.0		1.2	1,890							
Average	10	10.7	48.0	18.5	14.8	25.9		.8	1,345							
Ham, fresh, fat:																
Edible portion—																
Minimum	5		30.4	10.7	8.0	43.8		.5	2,030							
Maximum	5		44.3	14.2	12.1	61.1		.8	2,825							
Average	5		38.7	12.4	10.6	50.0		.7	2,845							
As purchased—																
Minimum	5	9.7	25.9	9.5	6.8	37.8		.4	1,790							
Maximum	5	16.3	40.0	12.2	10.4	52.2		.7	2,410							
Average	5	13.2	33.6	10.7	9.2	43.5		.5	2,085							
Ham, fresh, average all analyses:																
Edible portion	17		50.1	15.7	16.6	33.4		.9	1,700							
As purchased	17	10.3	45.1	14.3	14.1	29.7		.8	1,520							
Ham, fresh, visible fat largely removed:																
Head:																
Edible portion—																
Minimum	3		38.4	11.6	10.5	34.5		.6	1,725							
Maximum	3		50.5	14.5	14.2	50.5		.8	2,350							
Average	3		45.8	13.4	12.7	41.8		.7	1,990							
As purchased—																
Minimum	3	51.7	10.7	8.2	3.0	8.2		.2	410							
Maximum	3	77.2	18.5	5.6	5.1	24.4		.3	1,135							
Average	3	68.4	18.8	4.1	3.8	18.8		.2	660							
Head cheese:																
Edible portion—																
Minimum	3		38.1	17.4	18.4	27.4		3.0	1,555							
Maximum	3		48.1	21.5	21.1	40.5		3.4	2,035							
Average	3		43.8	19.5	15.9	33.8		3.3	1,790							
As purchased	1	12.1	42.3	18.9	18.6	24.0		3.0	1,365							
Loin (chops), lean:																
Edible portion	1		60.3	20.3	19.7	19.0		1.0	1,180							
As purchased	1	23.5	46.1	15.5	15.1	14.5		.8	900							
Loin (chops), medium fat:																
Edible portion—c																
Minimum	19		49.1	13.8	14.9	25.0		.8	1,415							
Maximum	19		55.2	19.4	18.9	35.2		1.1	1,785							
Average	19		52.0	16.6	16.9	30.1		1.0	1,580							
As purchased—																
Minimum	19	11.5	36.3	10.6	11.7	20.0		.6	1,090							
Maximum	19	28.2	46.9	16.1	16.5	31.1		.8	1,575							
Average	19	19.7	41.8	13.4	18.5	24.2		.8	1,270							
Loin (chops), fat:																
Edible portion—																
Minimum	4		39.7	11.3	11.0	38.8		.6	1,995							
Maximum	4		46.7	19.3	15.8	48.6		.7	2,260							
Average	4		41.8	14.5	13.1	44.4		.7	2,145							
As purchased—																
Minimum	4	10.1	32.0	10.2	9.9	30.4		.6	1,560							
Maximum	4	22.2	36.5	15.1	12.3	43.7		.8	2,035							
Average	4	16.5	34.8	11.8	10.9	37.2		.6	1,790							
Loin (chops), average all analyses:																
Edible portion	24		50.7	16.4	16.4	32.0		.9	1,655							
As purchased	24	19.3	40.8	13.2	13.1	26.0		.8	1,340							

* Seven samples contained an average of lecithin 0.32, gelatinoids 0.8, and "flesh bases" 1.28 per cent."

† One sample contained lecithin 0.45, gelatinoids 0.9, and "flesh bases" 0.8 per cent."

‡ Eight samples contained an average of lecithin 0.35, gelatinoids 1.0, and "flesh bases" 1.5 per cent."

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
PORK, FRESH—continued.																
Loin, tenderloin, as purchased: <i>a</i>				<i>P. ct.</i>	<i>P. ct.</i>	<i>P. ct.</i>	<i>P. ct.</i>	<i>P. ct.</i>	<i>Cals.</i>							
Minimum	11			62.4	15.8	16.6	9.3	0.9	770							
Maximum	11			72.8	20.5	21.4	17.1	1.2	1,100							
Average	11			66.5	18.9	19.5	18.0	1.0	900							
Middle cuts:																
Edible portion—																
Minimum	3			46.0	15.7	14.5	34.9	.7	1,760							
Maximum	3			49.4	15.7	15.2	38.8	.8	1,925							
Average	3			48.2	15.7	14.8	36.8	.7	1,825							
As purchased—																
Minimum	3	12.7	35.5	12.1	<i>11.5</i>	26.5	.....	.6	1,345					
Maximum	3	23.5	42.8	13.7	<i>13.2</i>	30.5	.....	.8	1,510					
Average	3	19.7	38.6	12.7	<i>12.1</i>	28.0	.....	.7	1,465					
Shoulder:																
Edible portion— <i>b</i>																
Minimum	19			44.0	9.4	10.4	18.5	.6	1,105							
Maximum	19			63.6	17.4	17.0	49.3	.9	2,260							
Average	19			51.2	18.3	18.8	34.9	.8	1,690							
As purchased—																
Minimum	19	3.9	36.1	8.3	9.5	14.6	.....	.5	870					
Maximum	19	21.1	56.0	16.3	16.1	45.1	.....	.9	2,065					
Average	19	12.4	44.9	12.0	12.2	29.8	.....	.7	1,480					
Side, lard and other fat included:																
Edible portion—																
Minimum	3			26.2	8.4	7.8	59.1	.4	2,675							
Maximum	3			31.8	9.9	8.9	65.6	.5	2,925							
Average	3			29.4	9.4	8.5	61.7	.4	2,780							
As purchased—																
Minimum	3	7.9	24.1	7.8	7.2	51.1	.....	.4	2,315					
Maximum	3	13.5	27.5	8.5	7.8	60.4	.....	.4	2,695					
Average	3	11.2	26.1	8.3	7.5	54.8	.....	.4	2,465					
Side, not including lard and kidney:																
Edible portion— <i>c</i>																
Minimum	11			29.4	7.1	8.1	44.0	.4	2,080							
Maximum	11			43.1	11.0	12.2	64.4	.7	2,880							
Average	11			34.4	9.1	9.8	55.3	.5	2,505							
As purchased—																
Minimum	11	8.2	26.6	6.4	7.3	38.8	.....	.4	1,815					
Maximum	11	14.2	38.0	9.0	10.8	58.1	.....	.6	2,645					
Average	11	11.5	30.4	8.0	8.6	49.0	.....	.5	2,215					
Clear backs:																
Edible portion— <i>d</i>																
Minimum	8			20.2	4.9	6.6	57.8	.3	2,595							
Maximum	8			32.3	8.4	9.4	74.4	.5	3,235							
Average	8			25.1	6.4	6.9	67.6	.4	2,970							
As purchased—																
Minimum	8	4.2	19.3	4.7	4.8	54.8	.....	.3	2,460					
Maximum	8	7	30.6	8.0	8.9	70.9	.....	.5	3,080					
Average	8	5.7	28.7	6.0	6.4	68.8	.....	.4	2,805					
Clear kidneys:																
Edible portion— <i>e</i>																
Minimum	8			21.5	3.5	4.5	52.1	.2	2,360							
Maximum	8			37.3	8.8	10.0	74.0	.8	3,500							
Average	8			31.4	6.9	7.8	60.4	.4	2,675							
As purchased—																
Minimum	8	4.9	20.3	3.3	4.0	49.1	.....	.2	2,225					
Maximum	8	8.6	35.2	8.3	9.4	69.3	.....	.6	3,005					
Average	8	6.2	29.5	6.5	7.3	56.6	.....	.4	2,510					
Back fat, as purchased:																
Minimum	3			5.5	3.2	2.0	86.7	.1	3,730							
Maximum	3			10.5	4.1	2.7	92.4	.2	3,955							
Average	3			7.7	3.6	2.3	89.8	.1	3,860							
Belly fat, as purchased:																
Minimum	3			11.0	3.9	3.2	78.6	.2	3,430							
Maximum	3			16.7	6.1	4.6	85.6	.....	3,665						
Average	3			13.8	5.2	4.1	81.9	.2	3,555							

a Eight samples contained an average of lecithin 0.51, gelatinoids 0.6, and "flesh bases" 0.9 per cent.*b* Eight samples contained an average of lecithin 0.25, gelatinoids 0.8, and "flesh bases" 1.1 per cent.*c* Eight samples contained an average of lecithin 0.35, gelatinoids 1.0, and "flesh bases" 1.5 per cent.*d* Eight samples contained an average of lecithin 0.21, gelatinoids 0.6, and "flesh bases" 0.8 per cent.*e* Eight samples contained an average of lecithin 0.18, gelatinoids 0.6, and "flesh bases" 0.9 per cent.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
PORK, FRESH—continued.																
Ham fat, as purchased:				P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	3		8.3	3.1	2.5	87.2		0.1	3,740							
Maximum	3		10.2	3.7	3.5	89.2		.2	3,825							
Average	3		9.1	3.5	2.7	88.0		.2	3,780							
Jowl fat, as purchased:																
Minimum	3		13.3	5.1	4.3	72.8		.2	3,200							
Maximum	3		21.2	6.9	5.7	82.2		.3	3,575							
Average	3		16.0	5.9	5.0	78.8		.3	3,435							
Feet:																
Edible portion—a																
Minimum	8		50.7	8.3	11.2	17.4		.4	1,090							
Maximum	8		61.3	19.2	20.5	31.5		.9	1,630							
Average	8		55.4	15.8	17.5	26.3		.8	1,405							
As purchased—																
Minimum	8	65.6	8.7	2.4	3.0	3.7		.1	235							
Maximum	8	84.0	17.3	5.6	5.8	10.8		.3	560							
Average	8	74.1	14.3	4.1	4.5	6.9		.2	865							
Tails:																
Edible portion—b																
Minimum	8		11.5	2.9	3.6	67.2		.2	2,940							
Maximum	8		25.8	6.8	7.2	84.7		.4	3,630							
Average	8		17.4	4.8	5.2	77.1		.3	3,340							
As purchased—																
Minimum	8	8.7	10.0	2.5	3.2	54.9		.2	2,420							
Maximum	8	19.8	21.8	5.5	5.8	74.2		.3	3,200							
Average	8	13.3	15.0	4.1	4.5	66.9		.3	2,900							
Trimmings:																
Edible portion—																
Minimum	8		16.5	3.9	4.3	62.1		.3	2,750							
Maximum	8		29.7	7.2	7.9	78.9		.4	3,465							
Average	8		23.3	5.4	6.2	70.2		.3	3,060							
As purchased—																
Minimum	8	5.3	16.5	3.7	4.0	58.0		.3	2,570							
Maximum	8	10.4	27.8	6.7	7.3	74.2		.4	3,200							
Average	8	7.4	21.6	5.0	5.7	65.0		.3	2,835							
PORK ORGANS, ETC.																
Brains, as purchased	1		75.8	11.7	12.5	10.3		1.6	655							
Heart, as purchased	1		75.8	11.1	17.1	6.3		1.0	585							
Kidneys, as purchased:																
Minimum	2		76.1	16.2	15.2	4.1		1.2	455							
Maximum	2		79.5	16.9	17.2	5.5		1.2	530							
Average	2		77.8	15.5	16.2	4.8		1.2	490							
Liver, as purchased	1		71.4	21.3	21.3	4.5	1.4	1.4	615							
Lungs, as purchased	1		83.3	11.9	11.8	4.0		.9	390							
Marrow, as purchased:																
Minimum	6		13.2	1.5	2.2	78.4			3,360							
Maximum	6		16.7	3.2	3.8	84.5		(e)	4,095							
Average	6		14.6	2.3	4.2	81.2			3,470							
Skin, as purchased:																
Minimum	7		35.5	18.5	37.4	14.4		.5	1,140							
Maximum	7		55.4	33.3	33.3	35.3		.8	1,860							
Average	7		46.3	26.4	30.4	22.7		.6	1,450							
PORK, PICKLED, SALTED, AND SMOKED.																
Ham, smoked, lean:																
Edible portion—																
Minimum	3		49.5	19.5	19.8	17.0		5.4	1,080							
Maximum	3		57.4	20.2	20.7	24.4		5.8	1,105							
Average	3		63.5	19.8	20.2	20.8		5.5	1,245							
As purchased—																
Minimum	3	8.4	45.3	16.7	17.0	14.5		4.8	925							
Maximum	3	14.3	49.2	18.5	19.0	22.8		5.0	1,285							
Average	3	11.5	47.2	17.5	17.9	18.5		4.9	1,105							

c Eight samples contained an average of lecithin 0.32, gelatinoids 3.5, and "flesh bases" 2 per cent.
d Eight samples contained an average of lecithin 0.20, gelatinoids 0.6, and "flesh bases" 0.6 per cent.

e Ash not determined.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbo-hydrates.	Ash.	Fuel value per pound.
				N > 6.25	By difference.				
ANIMAL FOOD—Continued.									
PORK, PICKLED, SALTED AND SMOKED—cont'd.									
Ham, smoked, medium fat:									
Edible portion—									
Minimum	14			34.7	12.5	11.8	30.3	2.7	1,690
Maximum	14			45.6	22.9	24.5	44.7	7.4	2,145
Average	14			40.3	16.3	16.1	38.8	4.8	1,940
As purchased—									
Minimum	14	4.5		27.3	10.2	10.2	24.5	2.4	1,365
Maximum	14	28.4		42.5	21.9	23.4	39.9	6.0	1,890
Average	14	13.6		34.8	14.2	13.0	33.4	4.2	1,675
Ham, smoked, fat:									
Edible portion—									
Minimum	4			22.4	12.0	14.3	42.0	.6	2,135
Maximum	4			34.9	19.5	18.2	56.8	6.5	2,652
Average	4			27.9	14.8	16.1	52.3	3.7	2,485
As purchased—									
Minimum	12	2.0		22.0	11.4	14.0	51.9	5	2,400
Maximum	12	4.8		28.3	13.4	14.5	55.6	6.4	2,595
Average	12	3.4		25.2	12.4	14.2	53.7	5.5	2,495
Ham, smoked, all analyses:									
Edible portion	21			39.8	16.5	16.7	38.8	4.7	1,945
As purchased	19	12.2		35.8	14.5	14.0	33.2	4.2	1,670
Ham skin, as purchased:	1			27.2	15.4	16.0	53.7	3.1	2,556
Ham, smoked, boiled, as purchased:									
Minimum	2			39.2	18.1	18.2	7.8	5.6	740
Maximum	2			63.4	22.2	22.2	37.0	6.6	1,900
Average	2			51.3	20.2	20.2	22.4	6.1	1,320
Ham, smoked, fried, as purchased:	1			36.6	22.2	24.4	33.2	5.8	1,815
Ham, boneless, raw:									
Edible portion—									
Minimum	4			40.3	10.0	11.4	17.3	4.4	1,052
Maximum	4			55.9	17.3	19.4	38.9	6.6	1,930
Average	4			50.1	14.9	15.4	28.5	6.0	1,480
As purchased—									
Minimum	4	2.2		38.1	9.7	11.1	16.9	4.3	1,030
Maximum	4	5.6		54.7	16.9	18.9	36.7	7.3	1,820
Average	4	8.3		48.6	14.3	14.9	27.5	5.8	1,425
Ham luncheon, cooked:									
Edible portion—									
Minimum	12	12		47.8	19.5	22.8	19.4	5.0	1,290
Maximum	12	12		50.5	26.5	25.1	22.7	6.7	1,320
Average	12	12		49.2	22.5	24.0	21.0	5.8	1,305
As purchased—									
Minimum	12	1.5		46.5	19.0	22.2	19.1	4.9	1,270
Maximum	12	2.6		49.7	25.1	24.8	22.0	6.5	1,280
Average	12	2.1		48.1	22.1	23.5	20.6	5.7	1,280
Shoulder, smoked, medium fat:									
Edible portion—									
Minimum	3			21.5	14.2	14.6	28.8	5.5	1,480
Maximum	3			49.6	17.1	16.5	35.0	8.2	1,780
Average	3			45.9	15.9	15.8	32.5	6.7	1,665
As purchased—									
Minimum	3	17.4		29.2	11.7	11.7	23.7	4.5	1,220
Maximum	3	19.1		40.8	14.1	13.6	28.2	6.8	1,440
Average	3	38.2		36.8	13.0	12.9	26.6	5.5	1,365
Shoulder, smoked, fat:									
Edible portion—									
Minimum	2			22.6	14.2	14.5	49.0	4.7	2,365
Maximum	2			30.4	15.9	14.9	58.2	5.7	2,720
Average	2			26.5	15.1	14.7	53.6	5.2	2,545
As purchased—									
Minimum	2	14.1		16.7	10.5	10.7	42.1	3.5	2,015
Maximum	2	26.0		26.1	13.7	12.8	43.1	4.9	2,030
Average	2	20.0		21.4	12.1	11.8	42.6	4.2	2,020
Shoulder, smoked, all analyses:									
Edible portion	5			37.6	15.5	15.8	41.0	6.1	2,020
As purchased	5	18.9		30.7	12.4	12.4	33.0	5.0	1,625
Pigs' tongues, pickled:									
Edible portion—									
Minimum	2			51.8	17.0	17.6	16.5	.5	1,015
Maximum	2			65.4	18.3	18.4	23.1	6.7	1,310
Average	2			58.6	17.7	18.0	19.8	3.6	1,165

a Refuse, case.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N X 6.25.	By difference.											
ANIMAL FOOD—Continued.																
PORK, CANNED—continued.																
Boars' heads, as purchased:				<i>P. ct.</i>	<i>P. ct.</i>	<i>P. ct.</i>	<i>P. ct.</i>	<i>P. ct.</i>	<i>Cals.</i>							
Minimum.....	2			50.5	19.8	17.8	19.3	2.8	1,180							
Maximum.....	2			60.1	21.6	20.7	25.0	3.8	1,455							
Average.....	2			55.3	20.7	19.2	22.2	3.3	1,320							
Ham, deviled, as purchased:				<i>P. ct.</i>	<i>P. ct.</i>	<i>P. ct.</i>	<i>P. ct.</i>	<i>P. ct.</i>	<i>Cals.</i>							
Minimum.....	6			38.4	16.5	16.9	29.5	2.3	1,610							
Maximum.....	6			49.4	21.4	20.5	38.9	4.4	1,975							
Average.....	6			44.1	19.0	18.5	34.1	3.3	1,700							
SAUSAGE. a																
Arles:																
Edible portion.....	1			17.2	26.8	24.9	50.6	7.3	2,635							
As purchased.....	1	5.2		16.3	25.4	23.6	48.0	6.9	2,495							
Banquet:																
Edible portion.....	1			62.7	18.3	17.9	15.7	3.7	1,005							
As purchased.....	1	1.6		61.7	18.0	17.7	15.4	3.6	985							
Bologna:																
Edible portion—																
Minimum.....	8			53.5	15.3	15.0	11.1	0.2	820							
Maximum.....	8			67.0	21.2	20.7	24.0	.5	1,320							
Average.....	8			60.0	18.7	18.4	17.6	3.7	1,095							
As purchased—																
Minimum.....	4	2.4		51.6	14.9	14.6	13.9	3.0	925							
Maximum.....	4	4.5		59.9	20.5	20.0	23.4	5.0	1,270							
Average.....	4	3.3		55.2	18.2	18.0	19.7	3.8	1,170							
Farmer:																
Edible portion.....	1			23.2	29.3	27.2	42.0	7.6	2,310							
As purchased.....	1	3.9		22.2	27.9	26.2	40.4	7.3	2,225							
Frankfort, as purchased:																
Minimum.....	8			40.3	14.6	15.4	14.3	.7	985							
Maximum.....	8			64.8	26.9	26.9	25.9	8.1	1,595							
Average.....	8			57.2	19.6	19.7	18.6	3.4	1,170							
Holsteiner:																
Edible portion.....	1			25.6	29.4	29.4	27.3	3.4	2,220							
As purchased.....	1	2.2		25.1	28.7	28.7	36.5	3.3	2,135							
Lyon, pure ham:																
Edible portion.....	1			32.5	32.3	32.3	27.2	8.0	1,750							
As purchased.....	1	10.0		29.2	29.1	29.1	24.5	7.2	1,575							
Pork, as purchased:																
Minimum.....	11			25.7	7.3	7.3	28.2	1.0	1,485							
Maximum.....	11			54.4	19.0	16.9	50.8	8.6	2,635							
Average.....	11			39.8	13.0	12.7	44.2	2.2	2,125							
Pork sausage meat, as purchased.....	1			46.2	17.4	17.9	32.5	3.4	1,695							
Pork and beef chopped together, as purchased.....	1			55.4	19.4	19.5	24.1	1.0	1,380							
Salmi:																
Edible portion—																
Minimum.....	2			28.6	23.4	22.5	37.8	6.9	2,055							
Maximum.....	2			32.4	24.9	22.7	42.0	7.1	2,205							
Average.....	2			30.5	24.1	22.6	39.9	7.0	2,130							
As purchased—																
Minimum.....	2	7.5		26.5	21.6	20.2	33.6	6.4	1,830							
Maximum.....	2	11.0		28.8	22.1	20.8	38.8	6.4	2,040							
Average.....	2	9.3		27.6	21.8	20.5	36.2	6.4	1,935							
Sauvage:																
Edible portion—																
Minimum.....	3			20.0	23.5	22.8	43.0	7.3	2,280							
Maximum.....	3			25.0	29.4	26.6	45.7	8.0	2,480							
Average.....	3			23.2	26.0	24.6	44.5	7.7	2,360							
As purchased—																
Minimum.....	2	5.2		18.2	22.3	21.6	41.6	6.9	2,215							
Maximum.....	2	8.9		23.7	26.8	24.3	42.6	7.0	2,245							
Average.....	2	7.0		20.9	24.5	23.0	42.1	7.0	2,230							
Tongue, as purchased.....	1			46.4	20.1	17.3	33.1	3.2	1,770							
Wienerwurst, as purchased.....	1			43.9	28.0	.....	22.1	4.4	1,485						
SAUSAGE, CANNED.																
Beef, as purchased.....	1			59.6	17.9	17.8	20.6	2.0	1,200							
Bologna, Italian, as purchased.....	1			42.6	24.9	23.2	27.8	6.4	1,635							

In some cases the sum of the percentages of water, protein, fat, and ash in sausage does not make 100. In such cases the difference is estimated as carbohydrates. There are, however, no tests showing the presence of these, and it may be more nearly correct to give no value for carbohydrates.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25	By difference.											
ANIMAL FOOD—Continued.																
SAUSAGE, CANNED—continued.																
Frankfort, as purchased.....	1	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals. 695							
Oxford, as purchased.....	1	.....	72.7	14.9	14.6	9.9	.....	2.8	2,665					
Pork:																
Edible portion.....	1	.....	28.9	9.9	9.9	58.5	0.6	2.1							
As purchased.....	1	.....	56.6	16.6	16.6	24.8	.....	2.0	1,355					
As purchased.....	1	12.6	49.5	14.5	14.5	21.6	.....	1.8	1,180						
POULTRY AND GAME, FRESH.																
Chicken, broilers:																
Edible portion—																
Minimum.....	3	.....	72.2	19.0	19.0	1.6	.....	1.0	440					
Maximum.....	3	.....	76.3	25.4	24.5	4.0	.....	1.4	550					
Average.....	3	.....	74.8	21.5	21.6	2.6	.....	1.1	505					
As purchased—																
Minimum.....	3	31.4	44.6	9.0	8.5	1.1	.....	.5	245					
Maximum.....	3	55.1	52.4	15.7	15.1	1.8	.....	.9	365					
Average.....	3	41.6	48.7	12.8	12.6	1.4	.....	.7	295					
Fowls:																
Edible portion—																
Minimum.....	26	.....	54.1	15.5	14.8	9.7	.....	.8	770				
Maximum.....	26	.....	70.7	21.8	21.7	28.3	.....	1.5	1,520					
Average.....	26	.....	68.7	19.3	19.0	16.8	.....	1.0	1,045					
As purchased—																
Minimum.....	26	18.0	38.3	11.5	11.0	6.9	.....	.5	515					
Maximum.....	26	42.7	53.7	16.0	15.8	21.5	.....	1.1	1,155						
Average.....	26	25.9	47.1	13.7	14.0	12.8	.....	.7	775					
Goose, young:																
Edible portion.....	1	.....	46.7	16.3	16.3	36.2	.....	.8	1,830				
As purchased.....	1	17.6	28.5	13.4	13.4	29.8	.....	.7	1,505					
Turkey:																
Edible portion—																
Minimum.....	3	.....	49.5	19.0	18.9	8.7	.....	.9	830				
Maximum.....	3	.....	66.1	24.9	23.9	30.7	.....	1.3	1,650					
Average.....	3	.....	55.6	21.1	20.6	22.9	.....	1.0	1,360					
As purchased—																
Minimum.....	3	17.1	41.1	15.8	15.5	5.9	.....	.7	565					
Maximum.....	3	32.4	44.7	16.8	16.1	25.5	.....	.9	1,270					
Average.....	3	22.7	42.4	16.1	15.7	18.4	.....	.8	1,075					
Chicken gizzard, as purchased.....	1	.....	72.5	24.7	24.7	1.4	.....	1.4	590					
Chicken heart, as purchased.....	1	.....	72.0	20.7	21.1	5.5	.....	1.4	615					
Chicken liver, as purchased.....	1	.....	69.3	22.4	22.4	4.2	2.4	1.7	640						
Goose gizzard.....	1	.....	73.8	19.6	19.4	5.8	.....	1.0	610					
Goose liver, as purchased.....	1	.....	62.6	16.6	16.6	15.9	3.7	1.2	1,050						
Turkey gizzard, as purchased.....	1	.....	62.7	20.5	20.5	14.5	1.2	1.1	1,015						
Turkey heart, as purchased.....	1	.....	68.6	16.8	17.2	13.2	.....	1.0	870					
Turkey liver, as purchased.....	1	.....	69.6	22.9	22.9	5.2	.6	1.7	655						
POULTRY AND GAME, COOKED.																
Capon:																
Edible portion.....	1	.....	59.9	27.0	27.3	11.5	.....	1.3	985					
As purchased.....	1	10.4	53.6	24.2	24.5	10.3	.....	1.2	885						
Capon, with stuffing:																
Edible portion.....	1	.....	62.1	21.8	21.8	10.9	3.8	1.4	988						
As purchased.....	1	7.7	57.2	20.1	20.1	10.3	3.5	1.2	875							
Chicken, fricassee, edible portion.....	1	.....	67.5	17.6	17.6	11.5	2.4	1.0	886						
Turkey, roast, edible portion.....	1	.....	52.0	27.8	28.4	18.4	.....	1.2	1,296					
Turkey, roast, light and dark meat and stuffing, edible portion.....	1	.....	65.0	.....	17.1	10.8	5.5	1.6	876					
POULTRY AND GAME, CANNED.																
Chicken, sandwich, as purchased.....	1	.....	46.9	20.8	20.5	30.0	.....	2.6	1,655					
Turkey, sandwich, as purchased.....	1	.....	47.4	20.7	20.7	29.2	.....	2.7	1,615					
Plover, roast as purchased.....	1	.....	57.7	22.4	22.4	10.2	7.6	2.1	986						
Quail, as purchased.....	1	.....	66.9	21.8	21.8	8.0	1.7	1.6	775						

a Refuse liquid.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
FISH, FRESH. a																
Alewife, whole:																
Edible portion—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.								
Minimum	2	73.0	19.0	16.8	3.8	1.4	.515									
Maximum	2	75.9	19.7	19.5	6.0	1.5	.620									
Average.....	2	74.4	19.4	19.2	4.9	1.5	.576									
As purchased—																
Minimum	2	49.4	36.9	9.6	9.5	1.9	.8	.280								
Maximum	2	49.5	38.3	10.0	9.9	3.0	.8	.315								
Average.....	2	49.5	37.6	9.8	9.7	2.4	.8	.285								
Bass, black, whole:																
Edible portion—																
Minimum	2	74.8	19.4	19.2	1.0	1.2	.405									
Maximum	2	78.6	21.7	21.5	2.5	1.2	.510									
Average.....	2	76.7	20.6	20.4	1.7	1.2	.455									
As purchased—																
Minimum	2	53.6	34.6	8.5	8.5	.4	.5	.175								
Maximum	2	56.0	34.7	10.1	10.0	1.1	.6	.235								
Average.....	2	54.8	34.6	9.8	9.3	.8	.5	.205								
Bass, red, whole:																
Edible portion	1	81.6	16.9	16.7	.5	1.2	.335									
As purchased	1	63.5	29.8	6.2	6.1	.2	.4	.125								
Bass, sea, whole:																
Edible portion	1	79.3	19.8	18.8	.5	1.4	.390									
As purchased	1	56.1	34.8	8.7	8.5	.2	.6	.170								

a A considerable number of determinations of phosphorus, sulphur, and chlorin have been made in the flesh of fresh fish. These are recorded in the following table in terms of phosphoric anhydrid (P_2O_5), sulphuric anhydrid (SO_3), and chlorin (Cl), and in percentages of the total weight of "edible portion" or flesh:

Phosphoric anhydrid, sulphuric anhydrid, and chlorin in samples of fresh fish.

Kind of fish.	Phosphoric anhydrid.		Sulphuric anhydrid.		Chlorin.	
	Number of determinations.	Average.	Number of determinations.	Average.	Number of determinations.	Average.
Alewife.....	1	Per cent. 0.50		Per cent.		Per cent.
Bass:						
Black.....	1	.44	1	0.89		
Striped.....	2	.48	1	.47		
Blackfish.....	1	.52	1	.46	1	.024
Bluefish.....	1	.62				
Cod.....	2	.45				
Eels, salt water.....	1	.51				
Flounder.....	2	.40	2	.42		
Haddock.....	2	.47	1	.41		
Halibut.....	2	.44	1	.49		
Herring.....	1	.55	1	.55		
Mackerel.....	4	.56	2	.47		
Muskellunge.....	1	.52	1	.37		
Perch:						
White.....	2	.44	2	.65		
Pike.....	1	.46	1	.90		
Porgy.....	2	.59	1	.52		
Red snapper.....	2	.47	2	.47		
Salmon:						
Landlocked.....	2	.51	2	.40		
California.....	1	.69	1	.43		
Shad.....	2	.60	1	.52		
Sheepshead.....	1	.45	1	.48		
Smelt.....	1	.81	1	.55		
Spanish mackerel.....	1	.60	1	.58		
Trout, brook.....	1	.61	1	.48		
Turbot.....	1	.48	1	.32		
Whitefish.....	1	.71	1	.41		

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Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water	Protein.		Fat.	Total carbohydrates.	Ash.						
				N × 6.25	By difference.									
ANIMAL FOOD—Continued.														
FISH, FRESH—continued.														
Bass, striped, whole:														
Edible portion—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.						
Minimum	6	75.8	17.1	16.9	1.6	.....	0.9						
Maximum	6	79.6	19.5	19.3	4.6	.....	1.4						
Average	6	77.7	18.6	18.3	2.8	.....	1.2						
As purchased—														
Minimum	5	48.6	32.5	7.4	.7	.....	.5					
Maximum	5	57.1	39.7	9.8	9.7	1.6	.6							
Average	5	55.0	35.1	8.4	8.3	1.1	.5							
Bass, striped, entrails removed, as purchased.	1	51.2	37.4	8.8	8.7	2.2	.....	.5				
Blackfish, whole:														
Edible portion—														
Minimum	4	76.9	17	17.4	.6	.....	.6					
Maximum	4	81.4	19	19.0	2.8	.....	1.4						
Average	4	79.1	18	18.5	1.3	.....	1.1						
As purchased—														
Minimum	2	56.2	29.2	6	6.3	.2	.2							
Maximum	2	64.1	33.7	8.5	8.3	1.2	.6							
Average	2	60.2	31.4	7.4	7.3	.7	.4							
Blackfish, entrails removed, as purchased:														
Minimum	2	53.6	33.5	8.0	7.9	.4	.4							
Maximum	2	57.8	36.4	8.8	8.7	.7	.6							
Average	2	55.7	35.0	8.4	8.3	.5	.5							
Bluefish, entrails removed:														
Edible portion	1	78.5	19.4	19.0	1.2	.....	1.3						
As purchased	1	48.6	40.3	10.0	9.8	.6	.7							
Buffalo fish, entrails removed:														
Edible portion	1	78.6	18.0	17.9	2.3	.....	1.2						
As purchased	1	52.5	37.2	8.5	8.5	1.1	.6							
Butter-fish, whole:														
Edible portion	1	70.0	18.0	17.8	11.0	.....	1.2						
As purchased	1	42.8	40.1	10.3	10.2	6.3	.6							
Catfish:														
Edible portion	1	64.1	14.4	14.4	20.6	.....	.9					
As purchased	1	19.4	51.7	11.6	11.6	16.6	.7							
Ciscoe, whole:														
Edible portion—														
Minimum	3	72.3	17.7	17.6	3.5	.....	.9					
Maximum	3	76.1	19.3	19.1	9.2	.....	1.3						
Average	3	74.0	18.5	18.1	6.8	.....	1.1						
As purchased—														
Minimum	1	42.7	43.6	11.1	11.0	2.0	.7							
Ciscoe, entrails removed, as purchased:														
Minimum	2	6.5	62.4	15.3	15.4	7.2	.....	.8				
Maximum	2	13.7	68.8	17.2	16.5	7.8	.....	1.0					
Average	2	10.1	65.6	16.8	15.9	7.5	.....	.9				
Cod, whole:														
Edible portion—														
Minimum	5	80.7	15.5	14.9	.3	.....	1.0						
Maximum	5	83.5	18.3	17.6	.5	.....	1.4						
Average	5	82.6	16.5	15.8	.4	.....	1.2						
As purchased—														
Minimum	2	48.5	35.1	8.0	.1	.....	.6					
Maximum	2	56.5	42.3	8.7	.3	.....	.6					
Average	2	52.5	38.7	8.4	.2	.....	.6					
Cod, dressed, as purchased:														
Minimum	3	25.5	55.3	10.3	.2	.....	.8					
Maximum	3	33.7	62.1	11.8	.3	.....	.9					
Average	3	29.9	58.5	11.1	.2	.....	.8					
Cod, sections, edible portion:														
Minimum	3	81.8	15.6	15.0	.1	.....	.8					
Maximum	3	83.5	17.7	17.2	.5	.....	1.0						
Average	3	82.5	16.7	16.3	.3	.....	.9					
Cod, steaks:														
Edible portion	1	79.7	18.7	18.6	.5	.....	1.2						
As purchased	1	9.2	72.4	17.0	.5	.....	1.0						
Cusk, entrails removed:														
Edible portion	1	82.0	17.0	16.9	.2	.....	.9					
As purchased	1	40.3	49.0	10.1	.1	.....	.5					
Eels, salt water, head, skin, and entrails removed:														
Edible portion—														
Minimum	2	69.8	17.8	17.6	7.9	.....	.9					
Maximum	2	73.4	19.3	19.0	10.3	.....	1.1						
Average	2	71.6	18.6	18.3	9.1	.....	1.0						

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
FISH, FRESH—continued.																
Eel, salt water, head, skin, and entrails removed.—Continued.																
As purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.								
Minimum.....	2	19.0	54.9	14.4	14.8	6.4	.....	0.7	540						
Maximum.....	2	21.4	59.4	15.3	14.9	8.1	.....	.9	625					
Average.....	2	20.2	57.2	14.8	14.6	7.2	.....	.8	580					
Flounder, whole:																
Edible portion—																
Minimum.....	3	.....	83.4	13.3	12.9	.4	.....	1.2	280					
Maximum.....	3	.....	85.0	14.9	14.7	.8	.....	1.3	305					
Average.....	3	.....	84.2	14.2	13.9	.6	.....	1.3	290					
As purchased—																
Minimum.....	2	56.2	28.2	4.4	4.2	.2	.....	.5	95					
Maximum.....	2	66.8	37.0	6.3	6.1	.3	.....	.5	130					
Average.....	2	61.5	32.6	5.4	5.1	.3	.....	.5	115					
Flounder, entrails removed, as purchased.....	1	57.0	35.8	6.4	6.3	.3	.....	.6	130					
Haddock, entrails removed:																
Edible portion—																
Minimum.....	4	.....	80.3	16.3	15.9	.1	.....	1.0	315					
Maximum.....	4	.....	82.6	18.6	18.4	.4	.....	1.6	355					
Average.....	4	.....	81.7	17.2	16.8	.3	.....	1.2	335					
As purchased—																
Minimum.....	4	48.0	38.5	8.0	7.8	.1	.....	.5	155					
Maximum.....	4	52.9	42.9	9.0	8.9	.2	.....	.8	170					
Average.....	4	51.0	40.0	8.4	8.2	.2	.....	.6	165					
Lake, entrails removed:																
Edible portion.....	1	.....	83.1	15.4	15.2	.7	.....	1.0	315					
As purchased.....	1	52.5	39.5	7.3	7.2	.3	.....	.5	150					
Ihalibut, steaks or sections:																
Edible portion—																
Minimum.....	3	.....	70.1	17.5	17.5	2.2	.....	.9	420				
Maximum.....	3	.....	79.2	19.7	19.4	10.6	.....	1.1	790					
Average.....	3	.....	75.4	18.6	18.4	5.2	.....	1.0	565					
As purchased—																
Minimum.....	3	11.2	60.9	13.5	13.4	1.7	.....	.7	325					
Maximum.....	3	23.1	62.6	16.4	16.1	9.4	.....	1.0	700						
Average.....	3	17.7	61.9	15.3	15.1	4.4	.....	.9	470					
Serring, whole:																
Edible portion—																
Minimum.....	2	.....	69.3	19.1	19.5	3.2	.....	1.5	505					
Maximum.....	2	.....	76.0	19.8	19.2	11.0	.....	1.6	820					
Average.....	2	.....	72.5	19.5	18.9	7.1	.....	1.5	680					
As purchased—																
Minimum.....	2	39.3	37.3	10.3	10.0	1.9	.....	.8	305					
Maximum.....	2	46.0	46.1	12.0	11.7	5.9	.....	1.0	440						
Average.....	2	42.6	41.7	11.2	10.9	3.9	.....	.9	375					
Cingfish, whole:																
Edible portion.....	1	.....	79.2	18.9	18.7	.9	.....	1.2	390					
As purchased.....	1	56.6	34.4	8.2	8.1	.4	.....	.5	170					
lamprey, whole:																
Edible portion.....	1	.....	71.1	15.0	14.9	13.3	.....	.7	840				
As purchased.....	1	45.8	38.5	8.1	8.1	7.2	.....	.4	455					
Jackerel, whole:																
Edible portion—																
Minimum.....	6	.....	64.0	17.5	17.5	2.2	.....	1.0	430					
Maximum.....	6	.....	78.7	19.5	19.2	16.3	.....	1.5	1,045					
Average.....	6	.....	73.4	18.7	18.3	7.1	.....	1.2	645					
As purchased—																
Minimum.....	5	33.8	35.8	8.4	8.4	1.4	.....	.6	265					
Maximum.....	5	51.8	48.5	12.6	12.1	10.7	.....	1.0	685						
Average.....	5	44.7	40.4	10.2	10.0	4.2	.....	.7	385					
Jackerel, entrails removed, as purchased.....	1	40.7	43.7	11.6	11.4	2.5	.....	.7	365					
Fullet, whole:																
Edible portion.....	1	.....	74.9	19.5	19.3	4.6	.....	1.2	555					
As purchased.....	1	37.9	31.5	8.2	8.1	2.0	.....	.5	235					
fus-kellunge, whole:																
Edible portion.....	1	.....	76.3	20.2	19.6	2.5	.....	1.6	480					
As purchased.....	1	49.2	38.7	10.2	10.0	1.3	.....	.8	245					
Erch, white, whole:																
Edible portion—																
Minimum.....	2	.....	75.6	18.0	17.7	2.5	.....	1.1	490					
Maximum.....	2	.....	75.8	20.6	20.4	5.6	.....	1.3	570					
Average.....	2	.....	75.7	19.3	19.1	4.0	.....	1.2	530					

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
FISH, FRESH—continued.																
✓ Perch, white, whole—Continued.																
As purchased—																
Minimum	2	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Maximum	2	61.8	27.8	6.6	6.5	1.0	0.4	190								
Average	2	63.2	28.9	7.9	7.8	2.1	0.5	210								
✓ Perch, pike (Walleyed pike)																
Edible portion	1	.....	79.7	18.6	18.4	.5	1.4	365							
As purchased	1	57.3	34.0	7.9	7.9	.2	.6	155								
✓ Perch, yellow, whole:																
Edible portion—																
Minimum	2	.....	78.1	17.8	17.9	.6	1.1	355							
Maximum	2	.....	80.4	19.7	19.5	1.1	1.3	410							
Average	2	.....	79.8	18.7	18.7	.8	1.2	390							
As purchased	1	62.7	30.0	6.6	6.7	.2	.4	180								
✓ Perch, yellow, dressed, as purchased																
Pickeral, pike whole:																
Edible portion—																
Minimum	3	.....	79.5	18.4	18.4	.5	1.1	365							
Maximum	3	.....	79.9	19.0	18.9	.6	1.2	375							
Average	3	.....	79.8	18.7	18.6	.5	1.1	370							
As purchased—																
Minimum	2	45.4	40.8	9.8	9.7	.2	.6	190								
Maximum	2	48.7	42.6	10.0	10.0	.3	.7	200								
Average	2	47.1	42.2	9.9	9.9	.2	.6	190								
✓ Pickeral, pike, entrails removed, as purchased.																
Pike, gray, whole:																
✓ As purchased	1	.....	80.8	17.9	17.5	.8	1.1	365							
✓ As purchased	1	63.2	29.7	6.6	6.4	.3	.4	135								
✓ Pollock, dressed:																
Edible portion	1	.....	76.0	21.6	21.7	.8	1.5	435							
As purchased	1	28.5	54.3	15.4	15.5	.6	1.1	310								
Pompano, whole:																
Edible portion—																
Minimum	2	.....	67.4	18.4	18.1	1.6	1.0	425							
Maximum	2	.....	78.2	19.3	19.2	13.5	1.0	910							
Average	2	.....	72.8	18.6	18.7	7.5	1.0	665							
As purchased—																
Minimum	2	42.4	38.8	9.9	9.9	.8	.5	220								
Maximum	2	48.6	40.2	10.6	10.5	7.8	.5	525								
Average	2	45.5	39.5	10.3	10.2	4.8	.5	375								
✓ Porgy, whole:																
Edible portion—																
Minimum	3	.....	72.0	17.4	17.4	1.5	1.3	385							
Maximum	3	.....	79.7	19.4	19.3	7.9	1.4	885							
Average	3	.....	75.0	18.6	18.5	5.1	1.4	560							
As purchased—																
Minimum	3	57.3	27.8	6.1	6.1	.5	.5	135								
Maximum	3	65.1	31.1	8.2	8.2	3.4	.6	295								
Average	3	60.0	29.9	7.4	7.4	2.1	.6	225								
✓ Red grouper, entrails removed:																
Edible portion—																
Minimum	2	.....	79.0	18.7	18.4	.5	1.1	370							
Maximum	2	.....	79.9	19.8	19.2	.7	1.2	395							
Average	2	.....	79.5	19.3	18.8	.6	1.1	385							
As purchased—																
Minimum	2	55.8	34.6	8.8	8.2	.2	.5	160								
Maximum	2	55.9	35.3	8.7	8.5	.3	.5	170								
Average	2	55.9	35.0	8.5	8.4	.2	.5	165								
✓ Red snapper, whole:																
Edible portion—																
Minimum	3	.....	77.4	19.3	18.4	.5	1.3	380							
Maximum	3	.....	79.8	20.2	19.9	1.9	1.3	445							
Average	3	.....	78.6	19.7	19.2	1.0	1.3	410							
As purchased—																
Minimum	2	39.6	26.8	9.4	9.2	.4	.6	215								
Maximum	2	52.5	47.2	12.4	12.0	.9	.8	245								
Average	2	46.1	42.9	10.8	10.6	.6	.7	225								
✓ Red snapper, entrails and gills removed, as purchased:																
Salmon, whole:																
Edible portion—																
Minimum	6	.....	61.0	19.4	19.1	10.2	1.1	790							
Maximum	6	60.5	25.2	24.5	15.0	1.6	1.035									
Average	6	64.6	22.0	21.2	13.8	1.4	950									

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.
				N	$\times 6.25$				
ANIMAL FOOD—Continued.									
FISH, FRESH—continued.									
Salmon, whole—Continued.									
As purchased—				P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
Minimum	4	30.8	39.5	14.4	15.3	7.9	.....	0.9	510
Maximum	4	39.5	45.0	15.9	15.6	10.0	.....	1.0	690
Average	4	34.9	40.9	15.8	14.4	8.9	.....	.9	660
Salmon, entrails removed, as purchased:									
Minimum	2	23.8	45.0	12.6	12.4	6.6	.....	.8	510
Maximum	2	35.2	51.2	15.0	14.6	9.5	.....	.9	680
Average	2	29.5	48.1	13.8	13.5	8.1	.....	.8	600
Salmon, landlocked, whole, spent:									
Edible portion—									
Minimum	4	75.3	16.6	16.8	2.0	.....	1.1	395	Incl. at shred. smelted.
Maximum	4	79.2	19.1	19.2	4.4	.....	1.2	500	
Average	4	77.7	17.8	17.8	3.8	.....	1.2	470	
As purchased—									
Minimum	4	43.5	40.2	8.9	8.7	1.0	.....	.6	206
Maximum	4	48.4	44.2	10.7	10.8	2.5	.....	.7	305
Average	4	45.5	42.8	9.7	9.8	1.8	.....	.6	255
Salmon, California, anterior sections:									
Edible portion—									
Minimum	2	62.7	17.0	17.0	16.5	.....	1.0	1,040	To add
Maximum	2	64.5	18.6	18.0	19.2	.....	1.1	1,125	
Average	2	63.6	17.8	17.5	17.8	.....	1.1	1,080	
As purchased	1	10.3	57.9	16.7	16.1	14.8	.....	.9	935
Shad, whole:									
Edible portion—									
Minimum	7	65.2	18.1	17.7	6.5	.....	.9	635	To add
Maximum	7	73.6	20.1	20.0	12.6	.....	1.5	945	
Average	7	70.6	18.8	18.6	9.5	.....	1.3	750	
As purchased—									
Minimum	7	44.4	30.3	7.5	7.4	2.9	.....	.5	260
Maximum	7	58.8	39.5	10.7	10.5	7.3	.....	.8	505
Average	7	50.1	35.2	9.4	9.2	4.8	.....	.7	350
Shad, roe, as purchased:									
Sheepshead, whole:									
Edible portion—									
Minimum	2	72.0	19.4	18.9	.7	.....	1.1	390	To add
Maximum	2	79.1	20.8	20.2	6.7	.....	1.3	670	
Average	2	75.6	20.1	19.5	8.7	.....	1.2	530	
As purchased	1	60.0	26.9	6.6	6.4	.2	.....	.5	130
Sheepshead, entrails removed, as purchased:									
skate, lobe of body:									
Edible portion	1	82.2	18.2	15.3	1.4	.....	1.1	400	To add
As purchased	1	51.0	40.2	8.9	7.5	.7	.....	.6	195
Smelt, whole:									
Edible portion—									
Minimum	2	78.2	16.5	15.9	1.6	.....	1.4	385	To add
Maximum	2	80.2	18.7	18.8	1.9	.....	2.0	415	
Average	2	79.2	17.6	17.3	1.8	.....	1.7	405	
As purchased—									
Minimum	2	34.8	39.9	9.5	9.6	.8	.....	.7	210
Maximum	2	49.0	52.3	10.8	10.4	1.2	.....	1.3	250
Average	2	41.9	46.1	10.1	10.0	1.0	.....	1.0	230
Spanish mackerel, whole:									
Edible portion	1	68.1	21.5	21.0	9.4	.....	1.5	795	3 to add F.A.C. 2
As purchased	1	34.6	44.5	14.1	13.7	6.2	.....	1.0	190
Turgeon, anterior sections:									
Edible portion	1	78.7	18.1	18.0	1.9	.....	1.4	415	
As purchased	1	14.4	67.4	15.1	15.4	1.6	.....	1.2	350
Lomcod, whole:									
Edible portion	1	81.5	17.2	17.1	.4	.....	1.0	335	✓ ✓
As purchased	1	59.9	32.7	6.9	6.8	.2	.....	.4	135
Rout, brook, whole:									
Edible portion—									
Minimum	3	75.8	18.6	15.4	.8	.....	1.0	385	✓ ✓
Maximum	3	79.8	20.3	20.0	2.9	.....	1.4	500	
Average	3	77.8	19.2	18.9	2.1	.....	1.2	445	
As purchased—									
Minimum	3	45.2	38.6	9.3	9.2	.4	.....	.5	210
Maximum	3	50.1	43.8	10.1	10.2	1.5	.....	.7	255
Average	3	48.1	40.4	9.9	9.8	1.1	.....	.6	230

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N	$\times 6.25$											
ANIMAL FOOD—Continued.																
FISH, FRESH—continued.																
Trout, salmon or lake:																
Edible portion—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	2	68.8	17.6	17.5	8.1	.....	.....	1.0	675					
Maximum	2	72.9	17.9	18.0	12.6	.....	.....	1.3	860					
Average	2	70.8	17.8	17.7	10.3	.....	.....	1.2	765					
As purchased—																
Minimum	2	40.7	30.0	7.7	7.7	4.8	.....	.6	370					
Maximum	2	56.3	43.2	10.6	10.7	5.4	.....	.6	400					
Average	2	48.5	36.8	9.1	9.2	5.1	.....	.6	385					
Tarbot, ^{170 samples} 170 samples																
Edible portion	1	71.4	14.8	13.9	14.4	.....	.....	1.3	885					
As purchased	1	47.7	37.3	7.7	5.8	7.5	.....	.7	460					
Weakfish, whole:																
Edible portion	1	79.0	17.8	17.4	2.4	.....	.....	1.2	430					
As purchased	1	51.9	38.0	8.6	8.4	1.1	.....	.6	205					
Whitefish, whole:																
Edible portion	1	60.8	22.9	22.1	6.5	.....	.....	1.6	700					
As purchased	1	53.5	32.5	10.6	10.3	3.0	.....	.7	325					
FISH, COOKED.																
Bluefish, cooked, edible portion	1	68.2	25.9	26.1	4.5	.....	.....	1.2	670					
Spanish mackerel, broiled:																
Edible portion	1	68.9	23.7	25.2	6.5	.....	.....	1.4	715					
As purchased	1	7.9	63.5	21.8	21.4	5.9	.....	1.3	655						
FISH, PRESERVED AND CANNED. ^a																
— Cod, salt: ^b																
Edible portion—																
Minimum	2	53.5	24.9	21.2	.2	.....	.....	24.4	405					
Maximum	2	53.6	25.9	21.7	.4	.....	.....	25.0	420					
Average	2	53.5	25.4	21.5	.3	.....	.....	24.7	410					
As purchased—																
Minimum	2	24.3	40.0	18.5	15.7	.3	.....	18.4	300						
Maximum	2	25.5	40.5	19.6	16.4	.4	.....	18.5	320						
Average	2	24.9	40.2	19.0	16.0	.4	.....	18.5	315						

^a A considerable number of determinations of phosphorus, sulphur, and chlorine have been made in the flesh of preserved and canned fish. These are recorded in the following table in terms of phosphoric anhydrid (P_2O_5), sulphuric anhydrid (SO_3), and chlorine (Cl), and in percentages of the total weight of "edible portion" or flesh:

Phosphoric anhydrid, sulphuric anhydrid, and chlorine in samples of preserved and canned fish.

Kind of fish.	Phosphoric anhydrid.		Sulphuric anhydrid.		Chlorin.	
	Number of determinations.	Average.	Number of determinations.	Average.	Number of determinations.	Average.
Cod, salt	2	Per cent. 0.25	2	Per cent. 0.74	2	Per cent. 11.92
Cod, salt, boneless	1	.36	1	.68	1	11.19
Halibut, smoked	1	.47	1	.44	1	8.66
Herring, smoked	1	.84	1	1.24	1	7.21
Mackerel, salt	1	.35	1	.61	.....	.....
Salmon, canned	1	.61	1	.44	.....	.....

^b It is observable that in salt cod the proportion of protein by difference is much smaller than by factor. The former value is apparently more nearly correct, and has been used in estimating the fuel value per pound.

^c Two samples averaged 23 per cent common salt.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
FISH, PRESERVED AND CANNED—continued.																
Cod, salt, “boneless”:																
Edible portion—				P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Minimum	2			54.4	26.3	22.8	0.3	14.9	425							
Maximum	2			55.7	28.2	29.1	.3	23.1	555							
Average	2			55.0	27.8	25.7	.3	21.0	490							
As purchased	1	1.6	54.8	27.7	28.6	.3		14.7	545							
Haddock, smoked:																
Edible portion	1		72.5	23.3	23.7	.2		3.6	440							
As purchased	1	32.2	49.2	15.8	16.1	.1		2.4	305							
Haddock, smoked, cooked, canned, as purchased	1		68.7	22.3	21.8	2.3		7.2	510							
Halibut, smoked:																
Edible portion—																
Minimum	2		47.7	18.5	18.1	14.4		14.9	1,000							
Maximum	2		51.1	23.0	23.0	15.6		15.2	1,085							
Average	2		49.4	20.7	20.6	15.0		21.0	1,020							
As purchased—																
Minimum	2	5.9	44.9	17.0	16.7	13.6		13.9	925							
Maximum	2	8.0	47.0	21.6	21.6	14.4		14.0	975							
Average	2	7.0	46.0	19.8	19.1	14.0		13.9	950							
Herring, smoked:																
Edible portion	1		34.6	36.9	36.4	15.8		13.2	1,355							
As purchased	1	44.4	19.2	20.5	20.2	8.8		7.4	750							
Lamprey, canned:																
Edible portion	1		63.3	16.9		12.2	2.6	4.0	895							
As purchased	1	d18.2	51.7	13.8		10.0	3.0	3.3	735							
Mackerel, salt, entrails removed:																
Edible portion	1		42.2	21.1	22.0	22.6		13.2	1,345							
As purchased	1	22.9	32.5	16.3	17.0	17.4		10.2	1,035							
Mackerel, salt, canned, as purchased	1		68.2	19.6	19.9	8.7		3.2	730							
Mackerel, salt, canned in oil:																
Edible portion	1		58.3	25.4	23.5	14.1		4.1	1,065							
As purchased	1	d31.5	39.9	17.4	16.1	9.7		2.8	735							
Mackerel, salt, dressed:																
Edible portion—																
Minimum	2		43.2	16.6	16.9	24.9		12.0	1,345							
Maximum	2		43.6	17.9	17.7	27.9		13.8	1,485							
Average	2		43.4	17.3	17.3	26.4		12.0	1,435							
As purchased—																
Minimum	2	17.0	33.8	13.8	13.7	19.3		10.0	1,075							
Maximum	2	22.4	35.8	13.9	14.0	23.2		10.8	1,285							
Average	2	19.7	34.8	13.9	13.9	21.2		10.4	1,156							
Minnow, pickled, canned:																
Edible portion	1		56.5	22.0	21.9	18.6		3.0	1,195							
As purchased	1	18.7	46.0	17.9	17.8	15.1		2.4	970							
Pilchard in tomatoes, canned, Russia, as purchased	1		52.7	27.9	27.5	15.8		4.0	1,185							
Salmon, canned:																
Edible portion—																
Minimum	7		57.5	19.5	19.2	5.3		1.8	675							
Maximum	7		67.1	24.3	24.3	21.5		3.5	1,270							
Average	7		63.5	21.8	21.8	12.1		2.6	915							
As purchased—																
Minimum	3	11.7	54.6	18.6	18.8	5.6		1.5	615							
Maximum	3	16.9	58.2	20.2	20.3	9.8		2.4	760							
Average	3	14.2	56.8	19.5	19.5	7.5		2.0	680							
Sardines, canned:																
Edible portion—																
Minimum	2		48.2	21.2	19.4	12.7		5.6	1,000							
Maximum	2		56.4	24.9	25.3	26.7		5.7	1,520							
Average	2		52.3	23.0	22.4	19.7		5.6	1,260							
As purchased	1	d5.0	53.6	23.7	24.0	12.1		5.3	950							
Sturgeon, dried, Russia:																
Edible portion	1		50.6	31.8	32.2	9.6		7.6	995							
As purchased	1	12.7	44.1	27.8	28.1	8.4		6.7	870							
Sturgeon, caviare, pressed, Russian, as purchased	1		38.1	30.0		19.7	7.6	4.6	1,530							

a One sample contained 19.1 per cent common salt.

b One sample contained 12.1 per cent common salt.

c Contained 11.7 per cent common salt.

d Refuse, oil.

e Contained 9.2 per cent common salt.

f Contained 10.4 per cent common salt.

g Refuse, liquids.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		By difference.	Fat.	Total carbohydrates.	Ash.	Fuel value per pound.								
				N × 6.25.	Calcs.													
ANIMAL FOOD—Continued.																		
FISH, PRESERVED AND CANNED—continued.																		
Trout, brook:		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.								
Edible portion.....	1	68.4	22.3	22.8	6.1	.....	3.7	.....	.....	670					
As purchased.....	1	3.5	68.1	21.5	20.9	5.9	.....	.....	3.6	650						
Tunney, as purchased.....	1	.....	72.7	21.7	21.5	4.1	.....	.....	1.7	575					
Tunney, canned in oil, Russia:																		
Edible portion.....	1	51.3	23.8	.....	20.0	0.6	4.3	.....	1,300							
As purchased.....	1	41.7	42.7	20.8	.....	16.7	.....	.....	3.6	1,085					
AMPHIBIA.																		
Frogs' legs:																		
Edible portion—																		
Minimum.....	2	.....	81.2	13.2	12.8	.2	.....	.....	.8	255				
Maximum.....	2	.....	86.2	17.7	17.4	.2	.....	.....	1.2	335					
Average.....	2	.....	88.7	15.5	15.1	.....	.....	.....	1.0	295				
As purchased—																		
Minimum.....	2	31.8	54.8	9.1	8.8	.1	.....	.....	.6	175					
Maximum.....	2	32.6	59.1	12.0	11.7	.2	.....	.....	.8	225					
Average.....	2	32.0	58.9	10.5	10.3	.....	.....	.....	.7	200				
SHELLFISH, ETC., FRESH.^b																		
Clams, long, in shell:																		
Edible portion—																		
Minimum.....	4	.....	85.0	8.1	.....	1.0	1.6	2.0	.....	225					
Maximum.....	4	.....	88.1	9.0	.....	1.2	2.5	3.0	.....	255					
Average.....	4	.....	85.8	8.6	.....	1.0	2.0	2.6	.....	240					
As purchased—																		
Minimum.....	4	39.9	47.2	4.4	.....	.5	.9	1.2	.....	120					
Maximum.....	4	45.2	51.7	5.2	.....	.7	1.5	1.7	.....	150					
Average.....	4	41.9	49.9	5.0	.....	.6	1.1	1.5	.....	140					
Clams, round, in shell:																		
Edible portion.....	1	.....	86.2	6.5	.....	.4	4.2	2.7	.....	215				
As purchased.....	1	67.5	28.0	2.1	.....	.1	1.4	.9	.....	70					
Clams, round, removed from shell, as purchased.....	1	.....	80.8	10.6	.....	1.1	5.2	2.3	.....	340					
Crabs, hardshell, whole:																		
Edible portion.....	1	.....	77.1	16.6	.....	2.0	1.2	3.1	.....	415					
As purchased.....	1	62.4	36.7	7.9	.....	.9	.6	1.5	.....	195					
Crayfish, abdomen, whole:																		
Edible portion.....	1	.....	81.2	16.0	.....	.5	1.0	1.3	.....	310				
As purchased.....	1	68.6	10.9	2.1	.....	.1	.1	.2	.....	45					

^a Refuse, oil.^b A considerable number of determinations of phosphorous and sulphur have been made in the flesh of shellfish. These are recorded in the following table in terms of phosphoric anhydrid (P_2O_5) and sulphuric anhydrid (SO_3) and in percentages of the total weight of "edible portion" or flesh:

Phosphoric anhydrid and sulphuric anhydrid in samples of shellfish.

Kind of fish.	Number of determinations.	Phosphoric anhydrid.		Sulphuric anhydrid.	
		Average.	Percent.	Number of determinations.	Average.
Clams, long.....	2	.....	0.18	2	0.56
Clams, round.....	1	.....	.40	1	.39
Crayfish.....	1	.....	.53	1	.26
Lobster.....	3	.....	.38	3	.42
Oysters.....	14	.....	.30	14	.33
Scallops.....	2	.....	.18	2	.19
Lobster, canned.....	1	.....	.28	1	.48
Oysters, canned.....	1	.....	.36	1	.20

^c Refuse of whole.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
SHELLFISH, ETC., FRESH—continued.																
Lobster, whole:																
Edible portion—																
Minimum	5	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.							
Maximum	5	68.6	11.6	1.5	.6	1.6	345									
Average	5	84.3	25.4	2.5	.9	4.0	555									
As purchased—																
Minimum	5	44.0	18.0	4.4	.5	.6	115									
Maximum	5	73.7	47.2	6.7	.9	1.0	165									
Average	5	61.7	30.7	5.0	.7	.8	140									
Mussels, in shell:																
Edible portion	1		84.2	8.7	1.1	4.1	1.9	285								
As purchased	1	46.7	44.9	4.6	.6	2.2	1.0	150								
Oysters in shell:																
Edible portion—																
Minimum	34		81.7	4.2	.8	1.8	1.2	135								
Maximum	34		91.4	10.0	1.9	6.7	2.8	370								
Average	34		86.0	6.2	1.2	8.7	2.0	235								
As purchased—																
Minimum	34	74.0	10.7	.7	.1	.2	.2	15								
Maximum	34	88.3	23.1	1.8	.4	1.3	.6	65								
Average	34	81.4	16.1	1.2	.2	.7	.4	45								
Oysters, solids, as purchased:																
Minimum	9		82.2	4.5	.5	1.5	.7	135								
Maximum	9		92.4	7.3	1.8	6.2	2.5	325								
Average	9		88.3	6.0	1.3	3.3	1.1	230								
Scallops, as purchased:																
Minimum	2		77.8	14.5	..	1.1	1.3	305								
Maximum	2		82.8	15.1	.3	5.6	1.5	385								
Average	2		80.3	14.8	.1	3.4	1.4	345								
Terrapin:																
Edible portion	1		74.5	21.2	21.0	3.5	1.0	545								
As purchased	1	75.4	18.3	5.2	5.2	.9	.2	135								
Turtle, green, whole:																
Edible portion	1		79.8	19.8	18.5	.5	1.2	390								
As purchased	1	76.0	19.2	4.7	4.4	.1	.3	90								
SHELLFISH, ETC., CANNED.																
Clams, long, as purchased	1		84.5	9.0	1.3	2.9	2.3	275								
Clams, round, as purchased	1		82.9	10.5	.8	3.0	2.8	285								
Crabs, as purchased:																
Minimum	2		78.9	15.6	.8	.7	1.8	340								
Maximum	2		81.0	16.0	2.3	.8	2.1	410								
Average	2		80.0	15.8	1.5	.7	2.0	370								
Lobster, as purchased:																
Minimum	2		76.2	16.7	.5	.5	2.1	345								
Maximum	2		79.4	19.5	1.7	.6	2.8	445								
Average	2		77.8	18.1	1.1	.5	2.5	390								
Oysters, as purchased:																
Minimum	4		78.1	7.0	2.0	2.6	1.2	280								
Maximum	4		88.0	13.0	3.4	5.2	1.9	310								
Average	4		88.4	8.8	2.4	3.9	1.5	335								
Shrimp, as purchased	1		70.8	25.4	1.0	.2	2.6	520								
EGGS.																
Hens', uncooked: a																
Edible portion—																
Minimum	60		67.2	11.6	11.4	8.6	.8	660								
Maximum	60		75.8	16.0	17.4	13.1	1.6	910								
Average	60		73.7	13.4	14.8	10.5	1.0	720								
As purchased	611.2		65.5	11.9	13.1	9.3	.9	635								
Hens', boiled:																
Edible portion—																
Minimum	19		68.6	10.0	10.3	9.1	.6	575								
Maximum	19		79.9	15.6	16.8	14.7	1.1	880								
Average	19		73.2	13.2	14.0	12.0	.8	765								
As purchased	611.2		65.0	11.7	12.4	10.7	.7	680								

a Eggs are difficult of analysis and the discrepancy between the protein by factor and by difference may be due in part to incomplete determination of nitrogen and fat. It is also probable that the factor 6.25 is not correct for eggs. The value of protein by difference is perhaps the more nearly correct and has been used in the computation of the fuel value per pound.

b Average percentage refuse (shell) in 34 samples.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
ANIMAL FOOD—Continued.																
EGGS—continued.																
Hens', boiled whites:																
Edible portion—a		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.							
Minimum	11	.....	83.1	11.6	12.3	.....	.....	0.4	235				
Maximum	11	.....	87.1	14.8	15.4	0.3	.....	1.0	295					
Average	11	.....	96.2	12.3	15.0	.2	.....	.6	250				
Hens', boiled yolks:																
Edible portion—b																
Minimum	11	.....	48.4	15.3	15.5	32.2	.....	1.0	1,685					
Maximum	11	.....	50.2	16.8	18.0	34.4	.....	1.4	1,745					
Average	11	.....	49.5	15.7	16.1	33.8	.....	1.1	1,705					
DAIRY PRODUCTS, ETC.																
Butter, as purchased c				11.0	1.0	85.0	3.0	3,605						
Buttermilk, as purchased				91.0	3.0	5	4.8	.7	165						
Cheese, American, pale, as purchased d	1			81.6	28.8	35.9	e.3	3.4	2,055						
Cheese, American, red, as purchased f	1			28.6	29.6	33.3	8.5	2,165						
Cheese, Boudin, as purchased g	1			65.2	15.4	20.8	h.6	7.0	1,195						
Cheese, California flat, as purchased	4			34.0	24.3	33.4	4.5	3.8	1,945						
Cheese, Cheddar, as purchased i	6			27.4	27.7	36.8	4.1	4.0	2,145						
Cheese, Cheshire, as purchased j	1			37.1	26.9	30.7	e.0	4.4	1,810						
Cheese, cottage, as purchased:																
Minimum	2	.....	67.0	16.1	.....	.4	3.7	1.6	435				
Maximum	2	.....	77.0	25.7	.....	1.6	4.9	2.0	585					
Average	2	.....	72.0	20.9	.....	1.0	4.3	1.8	510					
Cheese, Crown brand cream, as purchased k	1			31.4	5.2	58.0	2.2	3.2	2,585						
Cheese, Dutch, as purchased:																
Minimum	2	.....	27.6	.....	29.6	16.3	.....	8.7	1,240				
Maximum	2	.....	42.7	.....	44.7	19.0	.....	11.4	1,630				
Average	2	.....	35.2	.....	37.1	17.7	.....	10.0	1,435				
Cheese, Fromage de Brie, as purchased l	1			60.2	15.9	21.0	1.4	1.5	1,210						
Cheese, full cream, as purchased : m																
Minimum	25	.....	27.0	17.9	.....	24.5	1.2	2.5	1,790					
Maximum	25	.....	44.1	37.0	.....	44.6	4.0	4.9	2,430					
Average	25	.....	34.2	25.9	.....	38.7	2.4	3.8	1,960					
Cheese, imitation full cream, Ohio, as purchased	1			37.9	25.9	31.7	4.5	1,820						
Cheese, imitation old English, as purchased n	1			20.7	30.1	42.7	1.3	5.2	2,385						
Cheese, Limburger, as purchased o	1			42.1	23.0	20.4	.4	5.1	1,675						
Cheese, Neuchatel, as purchased : p																
Minimum	2	.....	42.7	15.1	.....	22.3	.2	2.3	1,275					
Maximum	2	.....	57.2	22.3	.....	32.5	2.9	2.5	1,790					
Average	2	.....	50.0	18.7	.....	27.4	1.5	2.4	1,530					

a The ash of the whites of 73 eggs contained 3.3 per cent phosphoric anhydrid.

b The ash of the yolks of 73 eggs contained 57.2 per cent phosphoric anhydrid.

c The averages given for butter, buttermilk, cream, skimmed milk, and whole milk are assumed from the most reliable data available, but are not averages of all analyses.

d Contained 0.82 per cent common salt.

e Lactic acid.

f Contained 0.72 per cent common salt.

g Contained 3.16 per cent common salt.

h Milk sugar 0.7 per cent; lactic acid 0.9 per cent.

i One sample contained 0.45 per cent lactic acid and 1.43 per cent common salt.

j Contained 1.69 per cent common salt.

k Contained 2.75 per cent common salt.

l Contained 0.49 per cent common salt.

m Four cheeses were analyzed when 1, 3, and 5 weeks old. The average composition is as follows: When 7 days old, water 35.4, protein 21.6, fat 35.8, carbohydrates 3.9, and ash 3.3 per cent; when 21 days old, water 34.7, protein 22.7, fat 36.7, carbohydrates 2.1, and ash 3.9 per cent; when 35 days old, water 34.9, protein 23.3, fat 36.7, carbohydrates 0.7, and ash 4.4 per cent. The average of 20 analyses in which protein and carbohydrates were determined by difference gives: Water 28.3, protein and carbohydrates 38, fat 32.7, and ash 4 per cent. The average of 78 analyses in which the carbohydrates and ash were determined by difference gives: Water 24.9, protein 38, fat 32.7, carbohydrates and ash 4.4 per cent. The average of 148 analyses of green cheese in which the carbohydrates and ash were determined by difference gives: Water 33, protein 28.6, fat 33.7, carbohydrates and ash 4.7 per cent.

n Contained 1.47 per cent common salt.

o Contained 3.51 per cent common salt.

p The average of 10 analyses in which protein and sugar were not determined gives: Water 53.6, protein and sugar (by difference) 18.9, fat 27.7, lactic acid 1.2, and ash 2.6 per cent (including 1.4 per cent common salt).

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.					
		N × 6.25.	By difference.									
ANIMAL FOOD—Continued.												
DAIRY PRODUCTS, ETC.—continued.												
Cheese, partly skimmed milk, as purchased: <i>a</i>												
Minimum	3	34.8	23.5	23.7	2.3	3.2	1,580					
Maximum	3	42.0	27.6	34.5	4.9	3.4	1,970					
Average	3	38.2	26.4	29.5	3.6	3.3	1,785					
Cheese, pineapple, as purchased: <i>b</i>												
Minimum	5	11.8	27.0	33.3	2.2	5.1	1,965					
Maximum	5	31.0	34.5	45.2	3.1	6.2	2,600					
Average	5	23.0	29.9	38.9	2.6	5.6	2,245					
Cheese, Roquefort, as purchased: <i>c</i>	1	39.3	22.6	29.5	1.8	6.8	1,700					
Cheese, skimmed milk, as purchased: <i>d</i>												
Minimum	9	37.3	26.3	6.8		2.4	1,090					
Maximum	9	53.1	38.4	27.8	9.0	5.1	1,740					
Average	9	45.7	31.5	16.4	2.2	4.2	1,820					
Cheese, Swiss, as purchased: <i>e</i>												
Minimum	2	28.9	26.1	33.2	.9	4.4	1,920					
Maximum	2	33.8	29.1	36.7	1.7	5.2	2,105					
Average	2	31.4	27.6	34.9	1.3	4.8	2,010					
Cheese, whole milk. (See Full cream cheese.)												
Cream, as purchased: <i>f</i>		74.0	2.5	18.5	4.5	.5	910					
Koumiss, as purchased: <i>g</i>												
Minimum	8	88.8	2.6	1.7	5.1	.4	215					
Maximum	8	90.0	3.0	2.4	5.9	.4	265					
Average	8	89.3	2.8	2.1	5.4	.4	240					
Milk, condensed, sweetened, as purchased: <i>h</i>												
Minimum	24	21.6	6.3	.4	44.4	1.5	1,270					
Maximum	24	37.3	10.5	10.6	56.9	2.1	1,680					
Average	24	26.9	8.3	8.8	54.1	1.9	1,520					
Milk, condensed, unsweetened, "evaporated cream," as purchased:												
Minimum	6	66.3	5.4	7.8	10.4	1.5	740					
Maximum	6	69.6	10.5	10.4	12.2	2.1	835					
Average	6	68.2	9.6	9.3	11.2	1.7	780					
Milk, skimmed, as purchased: <i>f</i>												
Milk, whole, as purchased: <i>f</i>												
Whey, as purchased.....		87.0	3.3	4.0	5.0	1.7	325					
		93.0	1.0	.3	5.0	.7	125					
MISCELLANEOUS.												
Gelatin, as purchased:												
Minimum	6	9.6	89.3	82.2		1.4	1,660					
Maximum	6	15.4	97.5	85.3	.4	4.4	1,830					
Average	6	13.6	91.4	83.2	.1	2.1	1,705					
Calf's-foot jelly, as purchased.....												
Minimum	1	77.6	4.3		17.4	.7	405					
Isinglass, sturgeon, as purchased.....												
Minimum	1	19.0	89.3	77.4	1.6	2.0	1,730					
Spinal column, sturgeon, as purchased.....												
Minimum	1	17.7	59.8		17.1	.8	1,850					
Lard, refined, as purchased.....												
Minimum	1			100.0			4,220					
Lard, unrefined, as purchased:												
Minimum	3	8.1	1.7	.9	92.0	.1	3,895					
Maximum	3	6.6	2.9	1.3	95.9	.1	4,065					
Average	3	4.8	2.2	1.1	94.0	.1	4,010					
Tallow, refined, as purchased.....												
Minimum	1				100.0		4,220					
Cotoleone, as purchased.....												
Minimum	1				100.0		4,220					
Oleomargarine, as purchased.....												
Minimum	41	9.5	1.2		83.0	6.3	3,525					
Beef juice, as purchased.....												
Minimum	1	93.0	4.9		.6	1.5	115					

a Three cheeses were analyzed when 1, 3, and 5 weeks old. The average composition is as follows: When 1 week old, water 38.4, protein 25, fat 30, carbohydrates 3.3, and ash 3.3 per cent; when 3 weeks old, water 38.4, protein 25.3, fat 29, carbohydrates 4, and ash 3.3 per cent; when 5 weeks old, water 37.7, protein 26, fat 29.7, carbohydrates 3.2, and ash 3.4 per cent.

b Four samples contained an average of 2.13 per cent common salt.

c Contained 5.3 per cent common salt.

d Two samples contained an average of 1.5 per cent common salt.

e Contained 1.9 per cent common salt.

f The averages given for butter, buttermilk, cream, skim milk, and whole milk are assumed from the most reliable data available, but are not averages of all analyses.

g Contained, on the average, 4.4 per cent cane sugar and 0.76 per cent alcohol. Ash not reported, but assumed from European analyses.

h Sixteen samples contained, on the average, 43.6 per cent cane sugar.

i According to Farrington and Woll the ash of cows' milk contains, on the average, K₂O 25.6, Na₂O 12.5, CaO 24.6, P₂O₅ 21.2, and Cl 16.3 per cent.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD.									
FLOURS, MEALS, ETC.									
Barley, granulated	1	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
Barley meal and flour:									
Minimum	3		9.9	9.0	1.5	70.4	5.9	1.6	1,535
Maximum	3		13.6	12.7	3.2	74.5	7.0	3.8	1,680
Average	3		11.9	10.5	2.2	72.8	(*) 6.5	2.6	1,640
Barley, pearlized:									
Minimum	3		9.8	7.0	.7	77.3	.....	.6	1,635
Maximum	3		12.9	10.1	1.5	78.1	.....	1.6	1,675
Average	3		11.5	8.5	1.1	77.8	(*) .5	1.1	1,650
Buckwheat flour:									
Minimum	17		11.2	2.9	.5	71.6	.2	.5	1,560
Maximum	17		17.6	10.4	2.3	81.5	.7	1.8	1,650
Average	17		13.6	6.4	1.2	77.9	(*) .4	.9	1,620
Buckwheat preparations:									
Farina and groats—									
Minimum	2		10.6	3.3	.3	83.4	.1	.4	1,650
Maximum	2		11.2	4.8	.6	84.8	.3	.6	1,665
Average	2		10.9	4.1	.4	84.1	.2	.5	1,660
Self-raising—									
Minimum	14		9.8	5.5	.3	70.1	.....	4.4	1,515
Maximum	14		13.6	11.1	1.4	77.3	.....	7.0	1,600
Average	14		11.6	8.2	1.2	78.4	(*) .4	5.6	1,570
Corn flour: ^a									
Minimum	3		12.0	5.9	1.0	76.9	.6	.5	1,630
Maximum	3		13.0	8.5	1.8	79.6	1.2	.8	1,665
Average	3		12.6	7.1	1.8	78.4	.9	.6	1,645
Corn meal, granular: ^b									
Minimum	19		8.8	6.7	1.0	68.4	.....	.5	1,550
Maximum	19		17.9	11.6	5.3	80.6	.....	1.9	1,720
Average	19		12.5	9.2	1.9	75.4	(*) 1.0	1.0	1,655
Corn meal, unboiled:									
Edible portion—									
Minimum	7		10.9	7.8	4.5	71.9	.....	1.2	1,720
Maximum	7		12.4	9.3	5.2	75.4	.....	1.4	1,740
Average	7		11.6	8.4	4.7	74.0	.....	1.3	1,730
As purchased—									
Minimum	7	c4.2	9.2	6.5	3.5	55.7	.....	1.0	1,305
Maximum	7	24.1	10.8	8.0	4.5	72.2	.....	1.3	1,870
Average	7	10.9	10.8	7.5	4.2	65.9	.....	1.2	1,545
Pop corn:									
Minimum	2		4.1	10.3	4.7	78.6	1.3	1.3	1,870
Maximum	2		4.4	11.1	5.4	78.7	1.4	1.4	1,880
Average	2		4.3	10.7	5.0	78.7	1.4	1.3	1,875
Corn preparations:									
Cerealine: ^d —									
Minimum	5		9.5	9.1	.9	76.6	.2	.2	1,635
Maximum	5		11.0	9.9	1.3	79.2	.7	2.3	1,710
Average	5		10.3	9.6	1.1	78.3	(*) .4	.7	1,680
Hominy—									
Minimum	17		9.2	6.3	.2	77.3	.2	.1	1,610
Maximum	17		13.4	9.5	1.0	81.4	1.0	.7	1,700
Average	17		11.8	8.3	.6	79.0	(*) .9	.8	1,650
Hominy, cooked	1		79.3	2.2	.2	17.8	.....	.5	380
Parched—									
Minimum	2		4.9	11.1	8.2	71.1	.....	1.7	1,895
Maximum	2		5.6	11.8	8.7	73.4	.....	3.5	1,930
Average	2		5.2	11.5	8.4	72.8	.....	2.6	1,915
Kafir corn	1		16.8	6.6	3.8	70.6	1.1	2.2	1,595
Oatmeal: ^e									
Minimum	16		2.0	12.9	6.0	63.8	.6	1.5	1,610
Maximum	16		8.8	20.8	8.8	70.2	1.2	2.2	1,710
Average	16		7.3	16.1	7.2	67.5	(*) .9	1.9	1,665
-Oatmeal, boiled	1		84.5	2.8	.5	11.5	.....	.7	285

^a Average of 77 analyses of corn meal used for fodder gives water 15, protein 8.2, fat 3.8, carbohydrates 68.7, fiber 1.9, and ash 1.4 per cent, and fuel value 1,610 calories.

^b The ash of 1 sample contained 0.185 per cent phosphorus.

^c Refuse, bran removed by sifting.

^d The ash of 1 sample contained 0.192 per cent phosphorus.

^e The ash of 1 sample contained 0.414 per cent phosphorus.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
FLOURS, MEALS, ETC.—continued.									
Oatmeal gruel:									
Minimum	2		87.5	0.9	0.2	2.9		0.3	80
Maximum	2		95.7	1.6	.5	9.6		.8	230
Average	2		91.6	1.2	.4	6.3		.5	155
Oatmeal water:									
Minimum	2		94.0	.4	.1	1.3		.1	35
Maximum	2		98.1	.9	.1	4.5		.5	105
Average	2		96.0	.7	.1	2.9		.8	70
Oats, other preparations: <i>a</i>									
Rolled oats—									
Minimum	20		5.5	13.6	5.6	62.8	1.2	1.6	1,755
Maximum	20		11.2	19.1	8.8	70.8	1.4	4.7	1,885
Average	20		7.7	16.7	7.3	66.2	(2) 1.3	2.1	1,850
Miscellaneous—									
Minimum	26		6.4	13.7	6.1	63.9	.6	1.3	1,830
Maximum	26		9.2	18.4	8.2	70.5	1.7	1.9	1,890
Average	26		7.9	16.8	7.3	68.6	(2) .9	1.7	1,855
All analyses, average <i>b</i>	46		7.8	16.5	7.3	66.5	(2) 1.0	1.9	1,850
Rice:									
Minimum	21		9.1	5.9	.1	75.4	.1	.2	1,600
Maximum	21		14.0	11.3	.7	81.9	.4	.5	1,690
Average	21		12.3	8.0	.3	79.0	(12) .2	.4	1,680
Rice, boiled:									
Minimum	3		52.7	1.6		15.5		.1	330
Maximum	3		82.7	5.0	.1	41.9		.3	875
Average	3		72.5	2.8	.1	24.4		.2	510
Rice, flaked:									
Minimum	2		9.4	7.5	.3	81.4	.1	.3	1,680
Maximum	2		9.7	8.3	.5	82.2	.2	.4	1,690
Average	2		9.5	7.9	.4	81.9	.2	.3	1,685
Rice flour: <i>c</i>									
Minimum	4		3.7	4.7	1.7	58.3	9.1	6.6	1,635
Maximum	4		10.9	12.0	10.4	70.2	28.3	10.7	1,765
Average	4		8.5	8.6	6.1	68.0	16.1	8.8	1,680
Rye flour:									
Minimum	8		11.9	4.9	.2	77.6	.4	.6	1,615
Maximum	8		13.6	8.8	1.3	80.2	.5	.9	1,650
Average	8		12.9	6.8	.9	78.7	(2) .4	.7	1,630
Rye meal:									
Wheat flour, California fine: <i>d</i>									
Minimum	3		12.4	7.2	1.2	73.9		.4	1,590
Maximum	3		15.6	8.8	1.6	77.8		.5	1,660
Average	3		13.8	7.9	1.4	76.4		.5	1,625
Wheat flour, entire wheat:									
Minimum	9		6.4	12.2	1.5	69.5	.5	.6	1,635
Maximum	9		13.1	14.6	2.1	77.0	1.2	1.5	1,760
Average	9		11.4	13.8	1.9	71.9	(2) .9	1.0	1,675
Wheat flour, gluten:									
Minimum	5		10.5	12.8	1.1	69.6		.5	1,635
Maximum	5		13.0	15.0	2.4	72.8	.6	1.3	1,690
Average	5		12.0	14.2	1.8	71.1	(2) .6	.9	1,665
Wheat flour, Graham:									
Minimum	13		9.9	8.5	1.3	66.0	1.8	1.0	1,615
Maximum	13		13.7	17.7	3.6	75.8	2.0	2.7	1,710
Average	13		11.3	13.3	2.2	71.4	(2) 1.9	1.8	1,670
Wheat flour, prepared (self-raising): <i>e</i>									
Minimum	29		8.0	8.0	.6	67.4	.4	1.5	1,550
Maximum	29		13.0	13.3	2.2	78.6	.5	7.1	1,730
Average	29		10.8	10.2	1.2	73.0	(2) .4	4.8	1,600

a The preparations analyzed include a considerable number of brands, each of which varies in composition only slightly from the average.

b The ash of 5 samples contained an average of 0.418 per cent phosphorus.

c Rice flour is used mainly as a fodder, and varies considerably in composition. The ash of 2 samples contained an average of P_2O_5 29.1, K_2O 12.6, CaO 1, MgO 7.6, and SO_3 0.3 per cent. Two samples contained an average of protein ($N \times 6.25$) 11.8, and proteinoids 11.6 per cent.

d The ash of 3 complete samples contained an average of 49.3 per cent P_2O_5 .

e The flours analyzed included 18 varieties or brands. The variation between different samples of the same brand is as wide as that between the averages of the different brands. The widest variation is in the ash, which of course depends upon the mineral matters added for raising.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrate (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
FLOURS, MEALS, ETC.—continued:									
Wheat flour, patent roller process, bakers' grade:									
Minimum	14	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
Maximum	14	10.1	10.3	0.9	70.3	0.8	0.5	0.5	1,640
Average	14	13.3	14.9	2.0	75.5	1.5	.9	.6	1,705
Wheat flour, patent roller process, family and straight grade:									
Spring wheat—									
Minimum	3		10.3	9.6	1.0	72.7		.4	1,635
Maximum	3		13.1	13.3	1.2	78.5		.6	1,680
Average	3		11.9	10.9	1.1	75.6	(1) .1	.5	1,635
Winter wheat— <i>a</i>									
Minimum	6		11.7	10.8	1.0	72.1	.2	.3	1,615
Maximum	6		14.0	13.7	1.3	73.7	.4	.6	1,635
Average	6		13.1	12.3	1.1	73.0	(4) .3	.5	1,635
Undesignated—									
Minimum	19		9.4	9.3	.8	72.8		.3	1,610
Maximum	19		14.1	12.6	1.6	77.9		.6	1,705
Average	19		12.9	10.4	1.0	75.2	(1) .1	.5	1,635
All analyses, average	28		12.8	10.8	1.1	74.8	(6) .2	.5	1,640
Wheat flour, patent roller process, grade not indicated:									
Minimum	111		8.2	8.4	.3	70.3	.1	.3	1,640
Maximum	111		13.9	14.7	1.6	80.0	.3	.8	1,730
Average	111		11.5	11.4	1.0	75.6	(16) .2	.5	1,660
Wheat flour, patent roller process, high grade:									
Spring wheat—									
Minimum	23		8.8	8.7	.7	71.7	.1	.3	1,615
Maximum	23		14.3	13.8	1.9	78.1	.2	.5	1,715
Average	23		12.3	11.7	1.1	74.5	(7) .1	.4	1,650
Winter wheat— <i>b</i>									
Minimum	6		12.1	9.3	.8	71.6	.2	.3	1,615
Maximum	6		14.0	14.9	1.0	75.5	.4	.6	1,645
Average	6		13.3	11.0	.9	74.4	.3	.4	1,625
Undesignated—									
Minimum	28		9.6	8.2	.7	72.4		.3	1,615
Maximum	28		13.8	14.5	1.9	77.5		.6	1,700
Average	28		12.5	10.8	1.0	75.2	(1) .1	.5	1,640
All analyses, average	57		12.4	11.2	1.0	74.9	(14) .2	.5	1,645
Average of all analyses of high and medium grades and grade not indicated:	210		12.0	11.4	1.0	75.1	(11) .3	.5	1,650
Wheat flour, patent roller process, low grade: <i>c</i>									
Minimum	13		9.3	10.0	.8	64.2	.5	.5	1,645
Maximum	13		13.9	17.9	3.9	75.9	.9	2.0	1,735
Average	13		12.0	14.0	1.9	71.2	(7) .8	.9	1,665
Wheat flour, unclassified process, grade not indicated:									
Spring wheat— <i>d</i>									
Minimum	4		11.4	9.6	.6	73.5	.4	.5	1,610
Maximum	4		13.5	12.1	1.3	77.4	.8	.9	1,650
Average	4		12.4	10.5	1.0	75.4	(3) .5	.7	1,640
Winter wheat— <i>e</i>									
Minimum	21		9.9	8.5	.4	73.2	.2	.3	1,605
Maximum	21		14.4	12.5	1.5	78.2	.5	1.8	1,680
Average	21		11.9	10.7	1.0	75.8	(5) .4	.6	1,650
Undesignated— <i>f</i>									
Minimum	8		6.7	8.7	.6	75.3	.3	.4	1,645
Maximum	8		11.7	11.4	1.6	82.1	1.8	.9	1,715
Average	8		9.4	10.4	1.2	78.4	(3) .9	.6	1,675
All analyses, average	33		11.4	10.6	1.1	76.3	(10) .3	.6	1,650

a The ash of 1 sample contained K₂O 36.3, CaO 5.7, MgO 6.4, and P₂O₅ 49.3 per cent. In 1 sample protein (N × 6.25) 11.4 and proteids 10.8 per cent.

b The ash of 1 sample contained K₂O 38.5, CaO 5.6, MgO 4.4, P₂O₅ 48.1, and SO₃ 0.2 per cent. In 1 sample protein (N × 6.25) 10.6 and proteids 10.3 per cent.

c The ash of 1 sample contained K₂O 32.3, CaO 4.5, MgO 9.3, and P₂O₅ 53.1 per cent. In 1 sample protein (N × 6.25) 14.1 and proteids 13.8 per cent.

d Three samples contained an average of starch 70.8, dextrin 1.5, and sugar, etc., 1.8 per cent.

e Four samples contained an average of starch 71.9, dextrin 2.3, and sugar, etc., 1.6 per cent.

f Three samples contained an average of starch 71.8, dextrin 2, and sugar, etc., 1.7 per cent.

Chemical composition of American food materials—Continued.

Food materials.		Number of analy-ses.	Refuse.	Water.	Protein.	Fat.	Total carbon-hydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Cals.	Fuel value per pound.										
VEGETABLE FOOD—Continued.																					
FLOURS, MEALS, ETC.—continued.																					
Wheat preparations, breakfast foods: a																					
Cracked and crushed—b		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.											
Minimum.		11	8.9	9.5	1.3	73.7	1.2	1.4	1,645												
Maximum.		11	11.7	12.9	2.2	77.2	2.0	2.2	1,710												
Average.		11	10.1	11.1	1.7	75.5	(7) 1.7	1.6	1,685												
Farina—c																					
Minimum.		9	6.1	10.4	.8	74.6	.2	.1	1,630												
Maximum.		9	13.2	11.7	3.8	78.5	.6	.7	1,825												
Average.		9	10.9	11.0	1.4	76.8	(3) .4	.4	1,685												
Flaked—d																					
Minimum.		7	7.9	9.7	1.1	69.7	1.3	1.2	1,640												
Maximum.		7	10.1	15.6	1.5	77.8	2.2	3.3	1,705												
Average.		7	8.7	13.4	1.4	74.3	1.8	2.2	1,690												
Germs—d																					
Minimum.		10	9.1	8.6	1.2	73.1	.3	.5	1,665												
Maximum.		10	12.3	13.4	2.5	80.0	1.2	1.6	1,720												
Average.		10	10.4	10.5	2.0	76.0	(4) .9	1.1	1,695												
Glutens—e																					
Minimum.		3	6.8	12.7	.7	69.2	.5	.7	1,895												
Maximum.		3	11.1	14.4	3.3	78.8	2.5	2.0	1,730												
Average.		3	8.9	13.6	1.7	74.6	1.3	1.2	1,715												
Miscellaneous—f																					
Minimum.		22	3.8	10.4	1.3	70.5	.5	.9	1,865												
Maximum.		22	11.9	16.6	4.0	81.0	1.6	1.8	1,820												
Average.		22	9.4	13.1	2.1	74.1	(16) .9	1.3	1,710												
Parched and toasted—g																					
Minimum.		6	6.4	11.8	.9	72.3	.1	.2	1,660												
Maximum.		6	11.5	15.5	3.7	76.9	1.4	1.6	1,800												
Average.		6	8.6	13.6	2.4	74.5	.8	.9	1,740												
Shredded—																					
Minimum.		6	7.2	9.6	1.3	75.0		1.4	1,870												
Maximum.		6	10.7	11.4	1.6	79.7		3.3	1,720												
Average.		6	8.1	10.5	1.4	77.9	(3) 1.7	2.1	1,760												
All analyses, average		74	9.6	12.1	1.8	75.2	1.0	1.3	1,700												
Wheat preparations:																					
Macaroni—																					
Minimum.		11	7.0	7.9	.0	67.2		3	1,540												
Maximum.		11	12.3	16.6	4.9	78.4		7.0	1,775												
Average.		11	10.3	13.4	.9	74.1		1.3	1,665												
Macaroni, cooked		1	78.4	3.0	1.5	15.8		1.3	415												
Noodles—																					
Minimum.		2	10.6	11.7	.5	74.7	.2	.5	1,865												
Maximum.		2	10.7	11.7	1.5	76.0	.4	1.5	1,670												
Average.		2	10.7	11.7	1.0	75.6	.4	1.0	1,665												
Spaghetti—																					
Minimum.		3	10.0	11.2	.1	74.9	.5	.6	1,845												
Maximum.		3	11.1	13.3	.8	77.1	.7	.7	1,680												
Average.		3	10.6	12.1	.4	76.3	(2) .4	.6	1,660												
Vermicelli—																					
Minimum.		15	9.4	7.9	.3	66.7		.5	1,540												
Maximum.		15	12.3	16.4	5.2	76.5		6.8	1,730												
Average.		15	11.0	10.9	2.0	72.0		4.1	1,625												
BREAD, CRACKERS, PASTRY, ETC.																					
Bread, brown, as purchased:																					
Minimum.		2	40.0	5.0	1.2	43.6		1.9	970												
Maximum.		2	47.2	5.8	2.4	50.7		2.2	1,135												
Average.		2	43.6	5.4	1.8	47.1		2.1	1,050												
Bread, cassava, as purchased		1	10.5	9.1	.3	79.0		1.1	1,650												

a The different groups of wheat breakfast foods contain various brands, which have been arranged as far as possible according to similarity in method of preparation. The varieties under each group differ only slightly from the average in percentage composition.

b The ash of 2 samples contained an average of 0.282 per cent of phosphorus.

c The ash of 1 sample contained 0.151 per cent of phosphorus.

d The ash of 2 samples contained an average of 0.247 per cent of phosphorus.

e The ash of 1 sample contained 0.251 per cent of phosphorus.

f The ash of 4 samples contained an average of 0.35 per cent of phosphorus.

g The ash of 1 sample contained 0.288 percent of phosphorus.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Ratuse.	Water.	Protein.	Fat.	Total carbon hydroxylates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
BREAD, CRACKERS, PASTRY, ETC.—continued.									
Bread, corn (johnnycake), as purchased: <i>a</i>	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	5	28.4	6.5	2.3	40.3	.....	.....	0.8	975
Maximum	5	48.0	10.1	9.8	54.3	.....	.....	4.1	1,330
Average	5	38.9	7.9	4.7	46.8	.....	.....	2.2	1,205
Bread, rye, as purchased:									
Minimum	21	20.6	6.4	.1	45.6	.....	.....	.6	1,020
Maximum	21	44.0	11.1	1.4	65.8	1.0	2.7	1,440	
Average	21	35.7	9.0	.6	53.2	(¹).5	1.5	1,180	
Bread, rye, black, as purchased.	1	36.9	9.6	.6	48.9	.....	.....	4.0	1,115
Bread, rye, whole, as purchased:									
Minimum	2	49.8	11.8	.5	35.0	.....	.....	.9	895
Maximum	2	51.6	12.0	.6	36.8	1.6	1.0	930	
Average	2	50.7	11.9	.6	35.9	1.2	.9	915	
Bread, rye and wheat, as purchased.	1	35.3	11.9	.3	51.5	.....	.....	1.0	1,190
Bread, wheat:									
Buns, as purchased	1	29.0	6.2	6.5	57.3	.4	.9	1,455	
Buns, cinnamon, as purchased	1	23.6	9.4	7.2	59.1	.....	.7	1,575	
Buns, currant, as purchased	1	27.5	6.7	7.6	57.6	1.1	.6	1,515	
Buns, hot cross, as purchased	1	36.7	7.9	4.8	49.7	.....	.9	1,275	
Buns, sugar, as purchased: <i>b</i>									
Minimum	3	26.6	7.6	4.5	49.0	.....	.....	.8	1,340
Maximum	3	35.3	8.4	9.4	58.5	.....	.....	1.6	1,575
Average	3	29.6	8.1	6.9	54.2	(¹).3	1.2	1,450	
Gluten bread, as purchased—									
Minimum	6	34.8	8.2	.7	44.6	.....	.....	.8	1,085
Maximum	6	43.1	11.1	2.4	53.0	.....	.....	2.2	1,210
Average	6	38.2	9.8	1.4	49.8	.....	.....	1.3	1,160
Graham bread, as purchased— <i>c</i>									
Minimum	27	27.8	6.8	.4	38.6	.6	.7	.8	880
Maximum	27	42.4	10.9	3.8	59.1	1.8	3.0	1,350	
Average	27	35.7	8.9	1.8	52.1	(¹).1	1.5	1,210	
Biscuit, homemade, as purchased— <i>d</i>									
Minimum	3	30.7	7.8	2.0	53.7	.4	.1	1,280	
Maximum	3	34.7	10.2	3.3	56.6	.9	.9	1,325	
Average	3	32.9	8.7	2.6	55.3	(²).7	.5	1,300	
Biscuit, Maryland, as purchased— <i>e</i>									
Minimum	2	24.2	7.5	4.3	59.3	.6	1.2	1,490	
Maximum	2	25.0	9.3	6.8	61.0	2.1	1.4	1,530	
Average	2	24.6	8.4	5.6	60.1	1.3	1.3	1,510	
Biscuit, soda, as purchased	1	22.9	9.3	13.7	52.6	.....	.....	1.5	1,730
Rolls, French, as purchased— <i>f</i>									
Minimum	2	31.9	8.0	2.3	55.2	.3	1.2	1,290	
Maximum	2	32.2	9.0	2.7	56.2	.9	1.3	1,310	
Average	2	32.0	8.5	2.5	55.7	.6	1.3	1,300	
Rolls, plain, as purchased—									
Minimum	5	18.4	8.6	.4	56.7	.2	.7	1,340	
Maximum	5	28.4	11.9	9.4	64.7	.3	1.4	1,635	
Average	5	25.2	9.7	4.2	59.9	(²).3	1.0	1,470	
Rolls, Vienna, as purchased	1	31.7	8.5	2.2	56.5	.4	1.1	1,300	
Role, water, as purchased—									
Minimum	2	31.2	8.5	2.0	52.5	.....	.....	1.1	1,300
Maximum	2	34.0	9.6	3.9	55.8	.....	.....	1.4	1,300
Average	2	32.6	9.0	3.0	54.2	.....	.....	1.2	1,300
Rolls, all analyses, as purchased	20	29.2	8.9	4.1	56.7	(²).6	1.1	1,395	
Rolls, large cheap, as purchased	1	29.4	9.4	.8	59.4	.....	.....	1.0	1,315
Toasted bread, as purchased—									
Minimum	5	15.3	10.6	.6	58.7	.....	.....	1.4	1,340
Maximum	5	28.6	12.8	3.2	67.1	.....	.....	2.0	1,620
Average	5	24.0	11.5	1.8	61.2	.....	.....	1.7	1,420
White bread, biscuit, as purchased—									
Minimum	3	31.2	7.8	.6	50.1	.3	.5	1,110	
Maximum	3	39.7	8.3	2.1	58.3	.3	1.4	1,295	
Average	3	35.2	8.0	1.4	54.3	(²).3	1.1	1,220	

a Corn bread (johnnycake), made of Indian meal mixed with sour milk or buttermilk.
b One sample contained sugar 7.9, dextrin 3.2, and starch 47 per cent.

c Two samples contained an average of sugar 3.2, dextrin 3.1, and starch 40.8 per cent.

d Two samples contained an average of sugar 2.7, dextrin 5.5, and starch 41.5 per cent.

e One sample contained sugar 3.9, dextrin 2.8, and starch 52.2 per cent.

f One sample contained sugar 2.9, dextrin 2.8, and starch 48.6 per cent.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
									Cals.
VEGETABLE FOOD—Continued.									
BREAD, CRACKERS, PASTRY, ETC.—continued.									
Bread, wheat—Continued.									
White bread, butter, as purchased.	1		32.2	7.9	1.1	57.7	0.4	1.1	1,285
White bread, cheap grade, as purchased—									
Minimum.	6		27.9	8.7	.5	44.3		1.0	1,105
Maximum.	6		40.7	16.3	2.1	60.4		1.3	1,370
Average.	6		33.2	10.0	1.3	53.6		1.0	1,255
White bread, cream, as purchased—									
Minimum.	6		20.3	6.5	.2	50.8		.8	1,150
Maximum.	6		38.2	15.4	1.9	60.9	.2	1.6	1,335
Average.	6		33.2	9.8	.9	55.0	(?) .2	1.1	1,245
White bread, home-made, as purchased—									
Minimum.	38		29.8	6.8	.4	47.6	.1	.4	1,115
Maximum.	38		40.4	11.0	3.5	58.0	.3	2.0	1,360
Average.	38		36.0	9.1	1.6	53.8	(?) .2	1.0	1,225
White bread, milk, as purchased—									
Minimum.	8		34.1	8.8	.3	49.0		.9	1,110
Maximum.	8		39.8	10.8	2.8	53.7		2.0	1,235
Average.	8		36.5	9.8	1.4	51.1		1.4	1,190
White bread, miscellaneous, as purchased a—									
Minimum.	103		25.3	7.0	.9	42.0	.5	.6	940
Maximum.	103		49.1	13.9	3.7	61.5	.9	3.0	1,415
Average.	103		36.6	9.3	1.2	52.7	(?) .5	1.2	1,205
White bread, New England, as purchased—									
Minimum.	7		33.1	8.5	.6	48.8		.8	1,095
Maximum.	7		40.5	9.9	2.1	55.3		1.3	1,245
Average.	7		36.6	9.1	1.2	52.1		1.0	1,190
White bread, Quaker, as purchased—									
Minimum.	4		31.1	7.0	.8	49.1	.2	.9	1,230
Maximum.	4		40.4	9.8	1.8	58.1	.3	1.3	1,305
Average.	4		36.8	8.8	1.1	53.7	(?) .3	1.1	1,200
White bread, split, as purchased—									
Minimum.	3		33.2	9.0	.6	52.4		.8	1,200
Maximum.	3		35.4	9.6	1.5	56.2		1.3	1,245
Average.	3		34.6	9.3	1.0	54.1	(?) .2	1.0	1,220
White bread, Vienna, as purchased—									
Minimum.	25		27.1	8.1	.1	48.4	.2	.9	1,110
Maximum.	25		39.7	11.0	3.8	60.3	.9	1.5	1,380
Average.	25		34.2	9.4	1.2	54.1	(?) .5	1.1	1,230
White bread, all analyses, as purchased, average b—	198		35.3	9.2	1.3	53.1	(?) .5	1.1	1,215
Whole wheat bread, as purchased—									
Minimum.	12		32.3	8.1	.4	37.2		.8	895
Maximum.	12		51.0	11.7	2.7	56.2		1.9	1,260
Average.	12		38.4	9.7	.9	49.7	(?) 1.2	1.3	1,140
Zwieback, as purchased—									
Minimum.	4		5.0	8.6	8.1	72.1		.8	1,915
Maximum.	4		7.7	11.7	11.3	74.2		1.0	2,015
Average.	4		6.8	9.8	9.9	73.5		1.0	1,970
Crackers:									
Boston (split) crackers, as purchased—									
Minimum.	2		6.8	10.7	7.1	68.8		1.4	1,875
Maximum.	2		8.2	11.3	9.9	73.4	.8	2.4	1,895
Average.	2		7.5	11.0	8.5	71.1	(?) .8	1.9	1,885

a Four samples contained an average of sugar 2.3, dextrin 4.2, and starch 48.2 per cent.

b Analyses of similar bread made from different grades of flour, from high to low grade:

	Water.	Protein.	Fat.	Carbo-hydrates.	Fiber.	Ash.	Fuel value per pound.
White bread from high-grade patent flour.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Calories.
White bread from regular patent flour ...	32.9	8.7	1.4	56.5	.....	0.5	1,270
White bread from baker's flour	34.1	9.0	1.3	54.9	.....	.7	1,245
White bread from low-grade flour	39.1	10.6	1.2	48.3	.....	.9	1,145
	40.7	12.6	1.1	44.3	.....	1.3	1,105

Chemical composition of American food materials—Continued.

Food materials.

	Number of analyses	Refuse.	Water.	Protein.	Fat.	Total carbohydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
BREAD, CRACKERS, PASTRY, ETC.—continued.									
Crackers—Continued.									
Butter crackers, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	3		5.2	9.2	8.0	76.3	0.3	0.9	1,840
Maximum	3		9.5	11.2	13.6	69.4	.4	2.5	2,250
Average.....	3		7.2	9.6	10.1	71.6	(2).4	1.5	1,935
Cream crackers, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	9		4.3	8.6	10.7	68.0	.2	1.1	1,945
Maximum	9		8.9	11.2	13.8	72.4	1.1	2.6	2,080
Average.....	9		6.8	9.7	12.1	69.7	(5).6	1.7	1,990
Egg crackers, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	2		5.4	12.4	11.9	63.7	.3	.8	2,100
Maximum	2		6.3	12.8	16.0	69.5	.5	1.2	2,025
Average.....	2		5.8	12.6	14.0	66.6	.4	1.0	2,000
Flatbread, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	3		9.4	13.5	.2	72.7	.....	.5	1,660
Maximum	3		10.5	15.6	.7	75.3	.....	1.5	1,675
Average.....	3		9.8	14.9	.5	78.6	.....	1.2	1,665
Graham crackers, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	4		3.1	7.4	1.1	69.7	.6	1.2	1,705
Maximum	4		8.4	14.4	13.6	77.2	2.4	1.9	2,050
Average.....	4		5.4	10.0	9.4	78.8	(2).5	1.4	1,955
Miscellaneous, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	21		3.1	7.1	.5	63.5	.1	.4	1,840
Maximum	21		11.8	14.2	12.8	82.2	.9	3.7	2,010
Average.....	21		7.1	10.2	8.8	72.4	(17).4	1.5	1,905
Oatmeal crackers, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	2		4.9	10.4	8.5	68.3	.....	1.4	1,870
Maximum	2		7.8	13.1	13.7	69.6	.....	2.3	2,065
Average.....	2		6.3	11.8	11.1	69.0	(1).9	1.8	1,970
Oyster crackers, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	7		3.8	9.1	4.8	69.1	.....	.9	1,855
Maximum	7		6.5	17.3	13.0	77.5	.....	5.9	2,655
Average.....	7		4.8	11.8	10.5	70.5	(1).2	2.9	1,965
Pilot bread, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	3		7.9	10.4	.5	70.3	.3	.9	1,865
Maximum	3		9.9	12.4	10.2	78.0	.3	1.1	1,930
Average.....	3		8.7	11.1	5.0	74.2	(2).3	1.0	1,860
Pretzels, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	2		8.1	9.1	3.9	71.1	.4	3.2	1,655
Maximum	2		11.0	10.3	3.9	74.5	.5	4.9	1,740
Average.....	2		9.6	9.7	3.9	72.8	(2).5	4.0	1,700
Saltines, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	2		4.6	9.9	12.7	67.1	.3	2.3	1,905
Maximum	2		6.7	11.2	12.8	69.9	.6	2.8	2,025
Average.....	2		5.6	10.6	12.7	68.5	.5	2.6	2,005
Soda crackers, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	5		3.7	8.8	7.7	70.5	.....	1.8	1,850
Maximum	5		8.4	10.7	10.0	75.4	.....	2.6	1,980
Average.....	5		5.9	9.8	9.1	78.1	(1).3	2.1	1,925
Water crackers, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	6		4.7	10.4	.2	72.9	.2	.5	1,730
Maximum	6		9.5	12.5	10.1	80.8	.8	2.0	1,910
Average.....	6		6.4	11.7	5.0	75.7	.4	1.2	1,835
All analyses, as purchased, average.....	71		6.8	10.7	8.8	71.9	(45).5	1.8	1,905
Cracker meal, as purchased—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.
Minimum	2		9.2	9.6	.6	68.3	.1	.5	1,890
Maximum	2		9.3	12.2	11.3	77.4	.3	1.6	1,925
Average.....	2		9.2	10.9	6.0	72.9	.2	1.0	1,810
Cake:									
Baker's cake, as purchased—									
Minimum	2		28.3	4.6	3.4	53.3	.....	.7	1,285
Maximum	2		34.4	8.0	5.9	60.5	.....	.9	1,460
Average.....	2		31.4	6.3	4.6	56.9	.....	.8	1,370
Chocolate layer cake, as purchased.....	1		20.5	6.2	8.1	64.1	.....	1.1	1,650
Coffee cake, as purchased—									
Minimum	5		11.0	4.9	4.7	52.4	.3	.6	1,395
Maximum	5		32.0	9.0	10.5	78.8	.6	1.1	1,820
Average.....	5		21.3	7.1	7.5	68.2	(4).4	.9	1,625
Cup cake, as purchased—									
Minimum	2		14.8	5.2	2.5	63.2	.....	.8*	1,600
Maximum	2		16.3	6.6	15.6	73.8	.....	1.2	1,920
Average.....	2		15.6	5.9	9.0	68.5	(1).3	1.0	1,785

Chemical composition of American food materials—Continued.

Food materials.	Number of analy-	Refuse.	Water.	Protein.	Fat.	Total carbohy-	Fiber (number of	Ash.	Fuel value per
	ses.					drates (includ-	determinations		pond.
						ing fiber).	in parentheses).		
VEGETABLE FOOD—Continued.									
BREAD, CRACKERS, PASTRY, ETC.—continued.									
Cake—Continued.									
Drop cake, as purchased.	1	P. ct.	16.6	7.6	14.7	60.3	0.1	0.8	1,885
Frosted cake, as purchased—									
Minimum.	7		11.4	5.0	7.5	58.3		1.0	1,545
Maximum.	7		26.5	7.5	10.6	71.0		3.4	1,835
Average.	7		18.2	5.9	9.0	64.8		2.1	1,696
Fruit cake, as purchased—									
Minimum.	4		14.4	4.8	9.3	60.9		1.4	1,720
Maximum.	4		18.4	6.7	12.6	67.5		2.2	1,790
Average.	4		17.8	5.9	10.9	64.1		1.8	1,760
Gingerbread, as purchased—									
Minimum.	2		16.1	5.4	8.4	62.3		1.5	1,680
Maximum.	2		21.5	6.3	9.5	64.7	.9	4.3	1,705
Average.	2		18.8	5.8	9.0	68.5	(1).9	2.9	1,670
Miscellaneous, as purchased—									
Minimum.	4		12.0	5.1	6.7	53.6		1.1	1,380
Maximum.	4		33.2	7.1	14.7	64.7		2.3	1,940
Average.	4		21.9	5.9	10.6	60.1		1.5	1,675
Sponge cake, as purchased—									
Minimum.	8		6.3	5.7	6.4	57.3		1.2	1,665
Maximum.	3		22.7	7.3	13.0	71.1		2.5	1,995
Average.	8		16.3	6.8	10.7	66.9		1.8	1,795
All analyses, except fruit, as purchased, average.	27		19.9	8.3	9.0	63.3	(7).4	1.5	1,675
Cookies, cakes, etc.:									
Molasses cookies, as purchased a—									
Minimum.	6		4.0	6.0	3.9	70.3		1.5	1,725
Maximum.	6		10.2	9.7	11.8	78.4		3.0	1,995
Average.	6		6.2	7.2	8.7	75.7		2.2	1,910
Miscellaneous cookies, as purchased—									
Minimum.	5		5.5	4.3	4.8	61.3	.1	.5	1,760
Maximum.	5		19.7	9.0	14.2	77.3	.4	2.3	1,955
Average.	5		10.8	6.7	9.6	72.4	1.2	1.0	1,875
Sugar cookies, as purchased b—									
Minimum.	9		4.3	4.5	4.8	60.1	.3	.6	1,715
Maximum.	9		13.3	8.0	16.7	84.4	2.0	3.4	2,135
Average.	9		8.8	7.0	10.2	73.2	(2).1	1.3	1,920
All analyses, as purchased, average.	20		8.1	7.0	9.7	78.7	.5	1.5	1,910
Eggs biscuits or bars, as purchased.	1		17.9	4.6	6.6	69.8	1.7	1.1	1,660
Ginger snaps, as purchased—									
Minimum.	7		4.3	5.8	2.3	71.9	.4	1.8	1,695
Maximum.	7		9.7	7.3	15.4	80.8	.9	3.7	2,100
Average.	7		6.3	6.5	8.6	76.0	(2).7	2.6	1,895
Lady fingers, as purchased—									
Minimum.	3		10.5	6.8	3.1	67.9	.1	.5	1,513
Maximum.	3		21.7	10.5	7.6	72.9	.4	.6	1,835
Average.	3		15.0	8.8	5.0	70.8	(2).7	.0	1,686
Macaroons, as purchased—									
Minimum.	4		5.0	3.1	9.6	57.1	.6	.4	1,565
Maximum.	4		27.5	10.6	21.5	71.4	1.8	1.0	2,220
Average.	4		12.3	6.5	15.2	65.2	1.1	.8	1,975
Wafers, miscellaneous, as purchased—									
Minimum.	5		5.3	7.6	2.5	62.5	.2	.6	1,780
Maximum.	5		8.5	10.4	14.7	81.3	.5	2.9	1,995
Average.	5		6.6	8.7	8.6	74.5	.4	1.6	1,910
Wafer, vanilla, as purchased—									
Minimum.	6		4.8	5.6	6.4	65.0	.1	.5	1,850
Maximum.	6		9.3	2.8	19.6	77.9	.4	1.5	2,150
Average.	6		6.7	6.6	14.0	71.6	(2).5	1.1	2,045
Wafers, all analyses, as purchased, average.	11		6.6	7.6	11.6	72.9	(10).3	1.3	1,985
Miscellaneous cakes, as purchased—									
Minimum.	17		3.2	4.2	1.7	62.9	.2	.6	1,560
Maximum.	17		17.9	13.1	17.0	84.6	.7	1.9	2,060
Average.	17		9.2	7.6	9.0	74.0	(10).3	1.2	1,900
Doughnuts, as purchased:									
Minimum.	9		11.0	5.1	16.4	45.8	.6	.3	1,705
Maximum.	9		25.8	7.6	25.7	63.2	.8	1.9	2,155
Average.	9		18.3	6.7	21.0	53.1	(2).7	.9	2,000

a One sample contained sugar 32.4, dextrin 3.2, and starch 40.6 per cent.

b One sample contained sugar 25.2, dextrin 1.8, and starch 42.7 per cent.

Max. per cent in vanilla wafers
Should be 7.8

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrate (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
BREAD, CRACKERS, PASTRY, ETC.—continued.									
Jumbles, as purchased:		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
Minimum	4		6.7	6.3	10.9	51.9	0.2	0.6	1,745
Maximum	4		24.8	7.9	15.7	72.1	1.0	1.3	2,025
Average	4		14.3	7.4	18.5	68.7	(3).5	1.1	1,890
Pie, apple, as purchased:									
Minimum	4		40.2	2.6	7.7	40.3		.9	1,180
Maximum	4		45.5	3.8	11.3	46.2		2.8	1,320
Average	4		42.5	3.1	9.8	42.8		1.8	1,270
Pie, cream, as purchased:									
Minimum	3		27.8	2.1	6.9	42.3		.5	1,425
Maximum	3		37.2	5.6	17.9	55.8		1.5	1,580
Average	3		32.0	4.4	11.4	51.2		1.0	1,615
Pie, custard, as purchased.	1		62.4	4.2	6.3	26.1		1.0	830
Pie, lemon, as purchased.	1		47.4	3.6	10.1	37.4		1.5	1,190
Pie, mince, as purchased:									
Minimum	3		34.1	4.5	9.7	30.4		1.3	1,115
Maximum	3		51.1	7.5	14.5	44.0		4.4	1,535
Average	3		41.3	5.8	12.3	38.1		2.6	1,385
Pie, raisin, as purchased.	1		37.0	3.0	11.3	47.2		1.5	1,410
Pie, squash, as purchased.	1		61.2	4.4	8.4	21.7		1.3	840
Pudding, Indian meal, as purchased.	1		60.7	5.5	4.8	27.5		1.5	815
Pudding, rice custard, as purchased.	1		59.4	4.0	4.6	31.4		.6	825
Pudding, tapioca, as purchased:									
Minimum	3		52.0	2.8	2.3	21.9		.5	570
Maximum	3		71.6	4.2	4.8	38.1		.9	990
Average	3		64.5	3.8	3.2	28.2		.8	720
Pudding, tapioca, with apples, as purchased.	1		70.1	.3	.1	29.3		.2	555
SUGARS, STARCHES, ETC.									
Candy, as purchased <i>a</i>						96.0			1,785
Honey, as purchased: <i>b</i>									
Minimum	17		14.8	.2		77.3		.1	1,450
Maximum	17		21.8	1.1		85.4		.8	1,590
Average	17		18.2	.4		81.2		.2	1,526
Molasses, cane, as purchased:									
Minimum	15		19.0	(5)		58.8		.6	1,180
Maximum	15		33.6	5.1	.2	76.7		7.2	1,345
Average	15		25.1	2.4		69.3		3.2	1,290
Starch, arrowroot, as purchased.	1		2.3			97.5		.2	1,815
Starch, cornstarch, as purchased.						90.0			1,675
Starch, manioc, as purchased.	1		10.5	.5	.1	88.8		.1	1,665
Starch, sago, as purchased.	1		12.2	9.0	.4	78.1		.3	1,635

a Average composition of some common candies.

	Number of analyses.	Water.	Sucrose.	Invert sugar.	Ash.	Insoluble in cold water.	Remarks.
Broken candy.....	8	Per ct. 4.6	Per ct. 75.3	Per ct. 14.0	Per ct. 2.7	Per cent. 0.9 in one sample.	
Cream candy.....	20	5.3	77.1	8.7	.1	.2 in one sample.	
Marshmallows.....	3	5.6	33.3	24.1	1.1	27.0	One sample contained 44.8 per cent insoluble matter (starch and flour).
Caramels.....	3	3.3	37.5	15.2	1.4		One sample contained 66.3 per cent insoluble matter (starch and flour).
Chocolate creams..	1	3.8	58.2	13.8	.5	15.4	

b Contained an average of cane sugar 2.8 and reducing sugar 71.1 per cent. The reducing sugar was composed of about equal amounts of glucose (dextrose) and fruit sugar (levulose).

c Nitrogenous matter, probably not protein.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
SUGARS, STARCHES, ETC.—continued.									
Starch, tapioca, as purchased:		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
Minimum	7	10.3	0.2			86.6	0.1		1,635
Maximum	7	12.3	.6	0.3	89.0	.2	0.3	1,656	
Average	7	11.4	.4	.1	88.0	(¹⁶).1	.1	1,650	
Sugar, coffee or brown sugar, as purchased	328					95.0			1,765
Sugar, granulated sugar, as purchased						100.0			1,860
Sugar, maple, as purchased:									
Minimum	17					74.0			1,375
Maximum	17					95.2			1,770
Average	17					82.8			1,540
Sugar, powdered, as purchased						100.0			1,860
Sirup, maple, as purchased:									
Minimum	50					45.9			855
Maximum	50					81.9			1,525
Average	50					71.4			1,830
VEGETABLES. a									
Artichokes, as purchased: b									
Minimum	2	77.5	2.2	.1	15.3	.8	.9	330	
Maximum	2	81.5	2.9	.2	18.3	.9	1.1	395	
Average	2	79.5	2.6	.2	16.7	.8	1.0	365	
Asparagus, fresh, as purchased: c									
Minimum	3	93.6	1.6	.2	3.6	.7	.5	106	
Maximum	3	94.3	2.1	.3	3.1	.8	1.0	110	
Average	3	94.0	1.8	.2	3.8	.8	.7	105	
Asparagus, cooked, as purchased	1	91.6	2.1	3.3	2.2				220
Beans, butter, green:									
Edible portion	1	58.9	9.4	.6	29.4			2.0	740
As purchased	1	50.0	29.4	4.7	3.3	14.6		1.0	370
Beans, dried, as purchased:									
Minimum	11	9.6	19.9	1.4	57.2	3.2	2.7	1,540	
Maximum	11	15.5	26.6	3.1	63.5	7.2	4.4	1,690	
Average	11	12.6	22.6	1.8	59.6	(¹⁶).4	3.5	1,605	
Beans, frijoles (New Mexico), as purchased:									
Minimum	4	6.3	20.9	1.0	60.7			4.0	1,625
Maximum	4	9.9	24.4	1.5	66.9			4.4	1,695
Average	4	7.5	21.9	1.3	65.1			4.2	1,675
Beans, Lima, dried, as purchased:									
Minimum	4	8.3	12.8	.6	61.6			3.6	1,800
Maximum	4	12.2	24.5	1.9	70.1			4.7	1,645
Average	4	10.4	18.1	1.5	65.9			4.1	1,625
Beans, Lima, fresh: d									
Edible portion	1	68.5	7.1	.7	22.0	1.7	1.7	570	
As purchased	1	55.0	30.8	3.2	3.3	9.9	.8	255	
Beans, mesquite, dry, as purchased	1	4.8	12.2	2.5	77.1			3.1	1,785
Beans, string, cooked, edible portion	1	95.3	.8	1.1	1.9			.9	95
Beans, string, fresh: e									
Edible portion—									
Minimum	5	83.5	1.7	.2	5.1	1.2	.7	165	
Maximum	5	91.7	2.8	.4	12.6	2.6	.9	300	
Average	5	89.2	2.3	.3	7.4	(¹⁶).9	.8	195	
As purchased		7.0	83.0	2.1	.3	6.9	1.8	.7	180
Beets, cooked, edible portion	1	88.6	2.3	.1	7.4			1.6	185
Beets, fresh: f									
Edible portion—									
Minimum	24	79.5	.9	.1	3.8	.6	.7	95	
Maximum	24	94.1	3.0	.2	16.3	1.7	2.0	365	
Average	24	87.5	1.6	.1	9.7	(¹⁶).9	1.1	215	
As purchased		20.0	70.0	1.3	.1	7.7		.9	170

a Such vegetables as potatoes, squash, beets, etc., have a certain amount of inedible material, skin, seeds, etc. The amount varies with the method of preparing the vegetables, and can not be accurately estimated. The figures given for refuse of vegetables, fruits, etc., are assumed to represent approximately the amount of refuse in these foods as ordinarily prepared.

b In one sample, protein ($N \times 6.25$) 2.2 and proteoids 1.2 per cent.

c Two samples contained an average of 0.23 per cent free acid. Three samples contained an average protein ($N \times 6.25$) 1.83 and proteoids 0.94 per cent.

d Contained protein ($N \times 6.25$) 7.1 and proteoids 5.7 per cent.

e One sample contained free acid 0.49, protein ($N \times 6.25$) 1.7, and proteoids 0.87 per cent.

f The ash of 8 samples contained an average of $\text{CaO } 6.2$, $\text{K}_2\text{O } 44$, $\text{MgO } 3.1$, $\text{P}_2\text{O}_5 9.4$, $\text{Na}_2\text{O } 10.3$, and $\text{Fe}_2\text{O}_3 0.3$ per cent. Seven samples contained an average of protein ($N \times 6.25$) 1.6, and proteoids 0.55 per cent.

Chemical composition of American food materials—Continued.

Food materials.

Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.								
VEGETABLES—continued.								
Cabbage: <i>a</i>								
Edible portion—								
Minimum	16	86.0	0.2	0.1	3.4	0.5	0.4	100
Maximum	16	94.3	2.9	.7	8.0	1.6	2.4	225
Average	16	91.5	1.6	.8	5.6	(^b) 1.1	1.0	145
As purchased	15.0	77.7	1.4	.2	4.8		.9	125
Cabbage, curly, as purchased	1	87.3	4.1	.6	6.2		1.8	215
Cabbage sprouts:								
Edible portion	1	88.2	4.7	1.1	4.3		1.7	215
As purchased	61.8	33.7	1.8	.4	1.7		.6	80
Carrots, fresh: <i>b</i>								
Edible portion—								
Minimum	18	83.1	.7		6.5	.6	.6	155
Maximum	18	91.1	2.0	.7	13.8	2.3	1.6	295
Average	18	88.2	1.1	.4	9.8	(^b) 1.1	1.0	210
As purchased	20.0	70.6	.9	.2	7.4		.9	160
Carrots, evaporated, edible portion	1	3.5	7.7	3.6	80.3		4.9	1,700
Cauliflower, as purchased: <i>c</i>								
Minimum	2	90.8	1.6	.2	3.4		.6	110
Maximum	2	93.8	2.0	.8	6.0		.8	175
Average	2	92.8	1.8	.5	4.7	(^b) 1.0	.7	140
Celery:								
Edible portion—								
Minimum	5	93.1	1.0	.1	3.0		.9	75
Maximum	5	95.0	1.4	.2	4.6		1.1	115
Average	5	94.5	1.1	.1	3.8		1.0	85
As purchased	20.0	75.6	.9	.1	2.6		.8	70
Collards: <i>d</i>								
Edible portion—								
Minimum	2	85.8	3.3	.5	6.2		1.4	205
Maximum	2	88.3	5.7	.7	6.5		1.6	250
Average	2	87.1	4.5	.6	6.3		1.5	225
As purchased	55.3	39.5	1.5	.2	2.9		.6	90
Corn, green: <i>e</i>								
Edible portion—								
Minimum	3	72.1	2.8	1.0	14.1		.7	360
Maximum	3	81.3	3.7	1.1	22.6		.8	530
Average	3	76.4	3.1	1.1	19.7	(^b) .5	.7	470
As purchased	61.0	29.4	1.2	.4	7.7		.3	180
Cucumbers: <i>f</i>								
Edible portion—								
Minimum	4	94.7	.5	.1	2.2	.5	.3	65
Maximum	4	96.3	.9	.5	4.0	.9	.6	95
Average	4	95.4	.8	.2	3.1	(^b) .7	.6	80
As purchased	15.0	81.1	.7	.2	2.6		.4	70
Eggplant, edible portion <i>g</i>	1	92.9	1.2	.3	5.1	.8	.5	130
Greens, beet, cooked, as purchased	1	89.5	2.2	3.4	3.2		1.7	245
Greens, dandelion, as purchased	1	81.4	2.4	1.0	10.6		4.6	285
Greens, turnip-salad, as purchased:								
Minimum	2	84.4	3.2	.5	5.5		1.8	180
Maximum	2	89.0	5.2	.8	7.1		2.5	265
Average	2	86.7	4.2	.6	6.3		2.2	220
Kohlrabi, edible portion: <i>h</i>								
Minimum	2	90.9	1.7	.1	5.4	1.1	1.3	140
Maximum	2	91.3	2.3	.1	5.6	1.4	1.3	145
Average	2	91.1	2.0	.1	5.5	1.3	1.8	145

a The ash of 2 samples contained an average of $\text{CaO } 4.7$, $\text{MgO } 1.9$, $\text{P}_2\text{O}_5 \text{ 5.5}$, $\text{Na}_2\text{O } 6.3$, and $\text{K}_2\text{O } 61.5$ per cent. Five samples contained an average of protein ($N \times 6.25$) 2.4 and proteoids 1.4 per cent.

b The ash of 1 sample contained $\text{CaO } 7.3$, $\text{K}_2\text{O } 53.7$, $\text{MgO } 2.8$, $\text{P}_2\text{O}_5 \text{ 9.8}$, $\text{Na}_2\text{O } 1.4$, and $\text{Fe}_2\text{O}_3 \text{ 0.8}$ per cent.

One sample contained protein ($N \times 6.25$) 1 and proteoids 0.5 per cent. One sample contained cane sugar 3.6 and fruit sugar 3 per cent.

c One sample contained free acid 0.6, protein ($N \times 6.25$) 1.6, and proteoids 1 per cent.

d One sample contained protein ($N \times 6.25$) 5.7 and proteoids 2.9 per cent.

e One sample contained free acid 0.01, protein ($N \times 6.25$) 2.8, and proteoids 2.2 per cent.

f One sample contained 0.02 per cent free acid. Two samples contained an average of protein ($N \times 6.25$) 0.8, and proteoids 0.4 per cent.

g Contained free acid 0.01, protein ($N \times 6.25$) 1.2, and proteoids 0.6 per cent.

h Two samples contained an average of protein ($N \times 6.25$) 2 and proteoids 0.5 per cent.

Chemical composition of American food materials—Continued.

Food materials.	Number of analy-	Refuse.	Water.	Protein.	Fat.	Total carbon hy- drates (includ- ing fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
VEGETABLES—continued.									
Leeks:		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
Edible portion	1	91.8	1.2	0.5	5.8	.....	.....	0.7	150
As purchased	1	15.0	78.0	1.0	.4	5.0	0.6	.6	130
Lentils, dried, as purchased:									
Minimum	3	.....	6.4	24.5	.7	58.6	.....	3.2	1,595
Maximum	3	.....	10.7	26.8	1.5	59.8	.....	8.6	1,685
Average	8	.....	8.4	25.7	1.0	59.2	.....	5.7	1,620
Lettuce: ^a									
Edible portion—									
Minimum	8	.....	91.5	.7	.1	1.6	.4	.5	65
Maximum	8	.....	97.0	1.8	.6	4.9	1.1	1.2	150
Average	8	.....	94.7	1.9	.8	2.9	(1).7	.9	90
As purchased	15.0	.....	80.5	1.0	.2	2.5	.....	.8	75
Mushrooms, as purchased: ^b									
Minimum	11	.....	70.8	1.7	.2	2.4	.1	.7	90
Maximum	11	.....	94.4	6.0	.9	20.3	2.0	2.2	525
Average	11	.....	88.1	3.5	.4	6.8	(1).8	1.2	210
Oka:									
Edible portion—									
Minimum	2	.....	87.4	1.2	.1	5.3	.....	.5	125
Maximum	2	.....	92.9	2.0	.4	9.5	.....	.7	230
Average	2	.....	90.2	1.6	.2	7.4	(1).4	.6	175
As purchased	12.5	.....	78.9	1.4	.2	6.5	.....	.5	155
Onions, fresh: ^c									
Edible portion—									
Minimum	15	.....	81.5	.2	.1	4.2	.7	.1	90
Maximum	15	.....	95.2	4.4	.8	15.5	1.3	1.2	335
Average	15	.....	87.6	1.6	.5	9.9	(1).8	.6	225
As purchased	10.0	.....	78.9	1.4	.3	8.9	.....	.5	205
Onions, cooked, prepared, as purchased	1	.....	91.2	1.2	1.8	4.9	.....	.9	190
Onions, green (New Mexico):									
Edible portion—									
Minimum	2	.....	85.4	.8	.1	9.9	.....	.5	205
Maximum	2	.....	88.7	1.3	.2	12.4	.....	.7	265
Average	2	.....	87.1	1.0	.1	11.9	.....	.6	230
As purchased	51.0	.....	42.6	.5	.1	5.5	.....	.3	115
Parenips: ^d									
Edible portion—									
Minimum	3	.....	79.5	1.4	.2	8.5	.....	.7	190
Maximum	3	.....	89.3	1.9	.8	16.7	.....	1.9	375
Average	3	.....	83.0	1.6	.5	18.5	(1)2.5	1.4	300
As purchased	20.0	.....	66.4	1.3	.4	10.8	.....	1.1	240
Peas, dried, as purchased:									
Minimum	8	.....	6.9	20.4	.8	58.0	1.2	2.2	1,570
Maximum	8	.....	15.0	28.0	1.3	67.4	7.9	4.3	1,870
Average	8	.....	9.5	24.8	1.0	62.0	(1)4.5	2.9	1,655
Peas, green: ^e									
Edible portion—									
Minimum	5	.....	71.6	4.4	.3	13.4	.....	.9	400
Maximum	5	.....	78.1	8.0	.6	18.9	.....	1.2	520
Average	5	.....	74.6	6.7	.5	16.9	(1)1.7	1.0	465
As purchased	45.0	.....	40.8	3.6	.2	9.8	.....	.6	255
Peas, green, cooked, as purchased	1	.....	73.8	6.7	.3	14.6	.....	1.5	540
Peas, sugar, green, edible portion	1	.....	81.8	3.4	.4	13.7	1.6	.7	335
Cowpeas, dried, as purchased:									
Minimum	13	.....	10.0	19.3	1.1	53.1	3.4	2.9	1,450
Maximum	13	.....	20.9	23.0	1.6	65.4	5.0	3.8	1,650
Average	13	.....	18.0	21.4	1.4	60.8	4	3.4	1,500
Cowpeas, green, edible portion	1	.....	65.9	9.4	.6	22.7	.....	1.4	620

^a The ash of 2 samples contained an average of CaO 5.1, K₂O 46.6, MgO 0.8, P₂O₅ 5.3, and Na₂O 3.3 per cent. Five samples contained an average of protein ($N \times 6.25$) 1.4 and proteoids 0.8 per cent.

^b Eight samples contained an average of 3.1 protein ($N \times 6.25$) and 2.2 per cent proteoids.

^c The ash of 1 sample contained CaO 6.4, K₂O 30.2, MgO 2.9, and P₂O₅ 12.4 per cent. Four samples contained an average of protein ($N \times 6.25$) 1.3 and proteoids 0.6 per cent.

^d One sample contained CaO 6, K₂O 42.2, MgO 3.1, P₂O₅ 12.8, Na₂O 0.4, and Fe₂O₃ 0.3 per cent.

^e One sample contained protein ($N \times 6.25$) 4.4, and proteoids 4.3 per cent.

/Refuse, pods.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
VEGETABLES—continued.									
Potatoes, raw or fresh: <i>a</i>									
Edible portion—		<i>P. ct.</i>	<i>P. ct.</i>	P. ct.	P. ct.	P. ct.	P. ct.	<i>P. ct.</i>	<i>Cals.</i>
Minimum	136	67.8	1.1	.....	13.5	0.2	0.5	0.5	285
Maximum	136	84.0	3.0	0.2	27.4	.9	1.9	1.9	570
Average	136	78.8	2.2	.1	18.4	(43).4	1.0	1.0	385
As purchased	20.0	62.6	1.8	.1	14.7	.....	.8	.....	.....
Potatoes, evaporated, as purchased:									
Minimum	3	4.8	7.3	.4	79.5	.....	2.7	1.640	
Maximum	3	8.7	9.5	.4	82.2	.....	3.6	1.725	
Average	3	7.1	8.5	.4	80.9	.....	3.1	1.680	
Potatoes, cooked, boiled, as purchased: <i>b</i>									
Minimum	11	69.7	1.8	.0	16.1	.....	.7	340	
Maximum	11	81.0	3.1	.4	26.5	.....	1.4	545	
Average	11	75.5	2.5	.1	20.9	(1).6	1.0	440	
Potatoes, cooked, chips, as purchased:									
Minimum	2	1.8	6.0	35.5	42.7	.....	4.5	2,580	
Maximum	2	2.6	7.6	44.2	50.6	.....	4.5	2,770	
Average	2	2.2	6.8	39.8	46.7	.....	4.5	2,675	
Potatoes, cooked, mashed, and creamed, as purchased:									
Minimum	4	68.9	2.0	1.0	13.9	.....	1.1	420	
Maximum	4	78.0	3.6	4.5	22.4	.....	2.0	615	
Average	4	75.1	2.6	3.0	17.8	.....	1.5	505	
Potatoes, sweet, raw, or fresh: <i>c</i>									
Edible portion—									
Minimum	95	45.8	.4	.2	17.1	.6	.7	385	
Maximum	95	79.0	3.7	1.4	49.1	4.6	2.0	915	
Average	95	69.0	1.8	.7	27.4	(86).3	1.1	570	
As purchased	20.0	55.2	1.4	.6	21.9	.....	.9	460	
Potatoes, sweet, cooked and prepared, as purchased....	1	51.9	3.0	2.1	42.1	.....	.9	925	
Pumpkins:									
Edible portion—									
Minimum	3	92.3	.9	.1	3.9	.9	.6	95	
Maximum	3	94.4	1.1	.2	5.9	1.1	.7	135	
Average	3	93.1	1.0	.1	5.2	1.2	.6	120	
As purchased	50.0	46.5	.5	.1	2.6	.....	.3	60	
Radishes:									
Edible portion—									
Minimum	4	86.6	.5	.0	3.4	.7	.7	85	
Maximum	4	94.8	3.0	.3	8.3	.7	1.8	225	
Average	4	91.8	1.8	.1	5.8	(2).7	1.0	185	
As purchased	30.0	64.3	.9	.1	4.0	.....	.7	95	
Rhubarb: <i>d</i>									
Edible portion—									
Minimum	2	92.7	.3	.1	2.9	.....	.6	65	
Maximum	2	96.1	.8	1.2	4.4	.....	.9	146	
Average	2	94.4	.6	.7	3.6	(1).1	.7	105	
As purchased	40.0	56.6	.4	.4	2.2	.....	.4	65	
Ruta-bagas: <i>e</i>									
Edible portion—									
Minimum	5	87.1	.9	.1	6.2	1.1	.7	135	
Maximum	5	91.8	2.0	.3	10.3	1.4	1.4	220	
Average	5	88.9	1.8	.2	8.5	1.2	1.1	190	
As purchased	30.0	62.2	.9	.1	6.0	.....	.8	135	

a One sample contained 0.02 per cent free acid. In 4 samples the average amount of protein nitrogen was 57 per cent of the total nitrogen. Twenty samples contained an average of 0.8 per cent malic acid, pectose substances, etc. The ash of 40 samples contained an average of CaO 1, K₂O 59.2, MgO 4.5, P₂O₅ 13.8, Na₂O 4, and SO₃ 6.5 per cent.

b One sample contained cane sugar 0.2, glucose 0.2, and starch 17.4 per cent.

c The edible portion of 26 samples contained an average of cane sugar 2.5 and invert sugar 3.4 per cent. Two samples contained, in the edible portion, an average of protein (N×6.25) 1.8 and protein 1.3 per cent.

d The edible portion of 1 sample contained free acid 0.5, protein (N×6.25) 0.7, and protein 0.4 per cent.

e The ash of the edible portion of 3 samples contained an average of CaO 9.4, K₂O 43.6, MgO 2.8, P₂O₅ 11.7, Na₂O 10.2, and Fe₂O₃ 0.5 per cent. One sample contained protein (N×6.25) 2 and protein 0.9 per cent.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
VEGETABLES—continued.									
Sauerkraut, as purchased:									
Minimum	2	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
Maximum	2	86.3	1.5	0.2	3.3	.....	.....	3.3	106
Average	2	91.3	1.9	.8	4.4	.....	.....	7.0	145
Spinach, fresh, as purchased: ^a									
Minimum	3	88.3	1.7	.5	3.8	.....	.....	5.2	125
Maximum	3	92.8	2.4	.5	3.4	1.0	.....	2.4	120
Average	3	92.3	2.1	.8	3.2	.9	.....	2.1	110
Spinach, cooked, as purchased.	1	89.8	2.1	4.1	2.6	.....	.....	1.4	280
Squash: ^b									
Edible portion—									
Minimum	10	78.9	.6	.1	3.5	.5	.....	.4	90
Maximum	10	95.2	3.1	1.4	16.1	1.2	1.6	385	.....
Average	10	88.3	1.4	.5	9.0	(^c) .8	.8	215	.....
As purchased	50.0	44.2	.7	.2	4.5	.....	.....	.4	105
Tomatoes, fresh, as purchased: ^c									
Minimum	27	91.3	.3	.2	2.2	.5	.....	.3	75
Maximum	27	96.3	1.3	1.4	6.5	1.2	.8	180	.....
Average	27	94.3	.9	.4	3.9	(^d) .6	.6	105	.....
Tomatoes, dried, as purchased.	1	7.3	12.9	8.1	62.3	.....	.....	9.4	1,740
Turnips: ^d									
Edible portion—									
Minimum	19	70.1	.7	.1	2.8	.8	.....	.5	100
Maximum	19	95.7	3.9	.4	23.8	3.2	2.1	520	.....
Average	19	89.6	1.3	.2	8.1	(^e) 1.3	.8	185	.....
As purchased	30.0	62.7	.9	.1	5.7	.....	.....	.6	125
VEGETABLES, CANNED.									
Artichokes, as purchased:									
Minimum	3	90.2	.5	.....	3.7	.5	1.4	85	.....
Maximum	3	93.9	1.0	.....	6.8	.6	2.2	140	.....
Average	3	92.5	.8	.....	5.0	.6	1.7	110	.....
Asparagus, as purchased:									
Minimum	14	92.9	.9	.0	2.2	.4	.8	70	.....
Maximum	14	95.4	2.4	.2	4.1	.8	1.8	120	.....
Average	14	94.4	1.5	.1	2.8	.5	1.2	85	.....
Beans, baked, as purchased:									
Minimum	21	59.9	5.1	.3	13.1	1.3	1.4	425	.....
Maximum	21	78.2	8.1	6.8	23.2	4.5	1.6	870	.....
Average	21	68.9	6.9	2.5	19.6	(^f) 2.5	2.1	600	.....
Beans, string, as purchased:									
Minimum	29	77.3	.6	.0	2.0	.4	.5	50	.....
Maximum	29	95.3	4.0	.5	13.5	.8	4.7	345	.....
Average	29	93.7	1.1	.1	8.8	(^g) 5	1.3	95	.....
Beans, little green, as purchased.	1	93.3	1.2	.1	3.4	.6	1.5	90	.....
Beans, wax, as purchased.	1	94.9	1.0	.1	3.1	.6	1.2	80	.....
Beans, haricots verts, as purchased:									
Minimum	7	94.3	.9	.0	2.1	.4	.9	55	.....
Maximum	7	96.1	1.4	.3	3.0	.5	1.3	95	.....
Average	7	95.2	1.1	.1	2.5	.5	1.1	70	.....
Beans, haricots flageolets, as purchased:									
Minimum	3	80.4	4.0	.0	10.8	1.0	.9	280	.....
Maximum	3	83.9	5.2	.1	13.4	1.0	1.7	350	.....
Average	3	81.6	4.6	.1	12.5	1.0	1.2	320	.....
Beans, haricots panaches, as purchased.	1	86.1	3.7	.....	9.2	1.0	1.0	70	240
Beans, Lima, as purchased:									
Minimum	16	75.7	3.2	.2	10.5	.9	1.0	280	.....
Maximum	16	83.9	5.6	.6	17.9	1.4	2.6	445	.....
Average	16	79.5	4.0	.3	14.6	(^h) 1.2	1.6	360	.....

^aThe ash of 2 samples contained an average of CaO 2.6, K₂O 39.9, MgO 2.2, P₂O₅ 2.2, and Na₂O 9.4 per cent. (One sample contained 0.01 per cent free acid. One sample contained protein (N×6.25) 2.1 and proteids 1.3 per cent.)

^bThe edible portion of 2 samples contained an average of protein (N×6.25) 0.6 and proteids 0.5 per cent.

^cThe ash of 1 sample contained CaO 5.8, K₂O 68.1, MgO 3.7, and P₂O₅, 8.7 per cent. Six samples contained an average of protein (N×6.25) 0.8 and proteids 0.5 per cent.

^dThe ash of the edible portion of 4 samples contained an average of CaO 8.8, K₂O 43, MgO 2.7, P₂O₅ 11.4, and Na₂O 8.3 per cent. One sample contained protein (N×6.25) 0.8 and proteids 0.2 per cent. One sample contained 4.4 per cent sugar.

Chemical composition of American food materials—Continued.

Food materials.	Number of analy- ses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrate- drates (including fiber).	Fiber (number of determinations in parentheses).	A.s.h.	Cals.	Fuel value per pound.										
VEGETABLE FOOD—Continued.																				
VEGETABLES, CANNED—continued.																				
Beans, red kidney, as purchased <i>a</i>	1	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	1.2	1.6	480										
Brussels sprouts, as purchased	1	72.7	7.0	0.2	18.5	—	—	—	—	—										
Corn, green, as purchased: <i>b</i>																				
Minimum	52	68.3	2.0	.5	9.8	.4	.4	.5	250											
Maximum	52	86.1	3.7	1.9	25.8	1.9	1.6	610												
Average	52	76.1	2.8	1.2	19.0	(3) .8	.9	455												
Corn and tomatoes, as purchased:																				
Minimum	2	83.6	1.2	.4	6.4	.4	.5	160												
Maximum	2	91.5	2.1	.4	12.7	.6	1.2	295												
Average	2	87.6	1.6	.4	9.6	.5	.8	225												
Macedoine (mixed vegetables), as purchased:																				
Minimum	5	91.5	.7	—	2.3	.4	.8	55												
Maximum	5	95.9	1.7	—	5.7	.7	1.2	135												
Average	5	93.1	1.4	—	4.5	.6	1.0	110												
Okra, as purchased: <i>c</i>																				
Minimum	4	94.0	.5	.0	3.3	.4	.3	75												
Maximum	4	94.9	.9	.2	3.9	1.4	1.7	95												
Average	4	94.4	.7	.1	3.6	.7	1.2	85												
Okra and tomatoes, as purchased: <i>d</i>																				
Minimum	3	91.4	1.1	.2	4.8	.4	1.4	125												
Maximum	3	92.3	1.2	.3	5.7	.6	1.8	135												
Average	3	91.8	1.1	.3	5.2	.5	1.6	130												
Peas, green, as purchased: <i>e</i>																				
Minimum	88	77.5	1.6	.0	4.9	.6	.3	130												
Maximum	88	92.7	6.1	.8	17.4	1.5	2.0	405												
Average	88	85.8	3.6	.2	9.8	(3) 1.2	1.1	255												
Potatoes, sweet, as purchased:																				
Minimum	2	42.0	1.3	.3	29.2	—	.8	580												
Maximum	2	68.4	2.6	.5	53.6	—	1.3	1,065												
Average	2	55.2	1.9	.4	41.4	(1) .8	1.1	890												
Pumpkins, as purchased:																				
Minimum	7	88.2	.5	.1	4.7	.6	.4	100												
Maximum	7	94.3	1.2	.4	9.6	1.5	1.5	205												
Average	7	91.6	.8	.2	6.7	(4) 1.1	.7	160												
Squash, as purchased:																				
Minimum	5	85.6	.2	.1	8.2	.5	.2	185												
Maximum	5	89.9	1.6	1.2	13.9	1.1	.7	265												
Average	5	87.6	.9	.5	10.5	(2) .7	.5	235												
Succotash, as purchased:																				
Minimum	12	71.4	2.9	.7	14.9	.7	.4	375												
Maximum	12	79.9	4.4	1.7	22.4	1.1	1.4	540												
Average	12	75.9	3.6	1.0	18.6	(10) .9	.9	455												
Tomatoes, as purchased: <i>f</i>																				
Minimum	19	92.5	.3	.1	1.4	.4	.2	80												
Maximum	19	97.9	1.7	.3	8.1	.7	1.2	135												
Average	19	94.0	1.2	.2	4.0	(11) .5	.6	105												
PICKLES, CONDIMENTS, ETC.																				
Catsup, tomato, as purchased:																				
Minimum	2	77.7	1.1	.1	8.5	—	2.5	185												
Maximum	2	87.8	2.0	.4	16.1	—	3.8	355												
Average	2	82.8	1.6	.2	12.3	—	3.2	265												
Horse-radish, as purchased:																				
Minimum	2	85.4	1.2	.1	9.6	—	1.5	210												
Maximum	2	87.5	1.6	.2	11.3	—	1.6	245												
Average	2	86.4	1.4	.2	10.5	—	1.5	230												
Horse-radish, evaporated, as purchased	1	—	4.3	11.0	.8	77.7	—	6.2	1,685											
Olives, green:																				
Edible portion	1	58.0	1.1	27.6	11.6	—	1.7	1,400												
As purchased	1	27.0	42.3	.8	20.2	8.5	—	1.2	1,025											
Olives, ripe:																				
Edible portion	1	64.7	1.7	25.9	4.3	—	3.4	1,205												
As purchased	1	19.0	52.4	1.4	21.0	3.5	—	2.7	975											
Peppers (pep'rica), green, dried, as purchased	1	—	5.0	15.5	8.5	63.0	—	8.0	1,820											

a Shelled.*b* Thirty-two samples contained an average of 0.4 per cent NaCl.*c* Three samples contained an average of 1.1 per cent NaCl.*d* Three samples contained an average of 1 per cent NaCl.*e* Eighty samples contained an average of 0.7 per cent NaCl.*f* Seven samples contained an average of 0.1 per cent Na Cl.

Chemical composition of American food materials—Continued.

Food materials.	Number of analy- ses.	Refuse.	Water.	Protein.	Fat.	Total carbohy- drates (includ- ing fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
PICKLES, CONDIMENTS, ETC.—continued.									
Peppers, red chili, as purchased : a		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
Minimum	5		3.9	8.2	6.3	67.3		7.4	1,770
Maximum	5		6.4	11.1	10.3	71.9		8.0	1,895
Average	5		5.8	9.4	7.7	70.0		7.6	1,800
Pickles, cucumber, as purchased :									
Minimum	3		89.0	.4	.1	1.3		2.7	35
Maximum	3		95.5	.7	.5	5.4		4.6	130
Average	3		92.9	.5	.8	2.7		3.6	70
Pickles, mixed, as purchased	1		93.8	1.1	.4	4.0		.7	110
Pickles, spiced, as purchased	1		77.1	.4	.1	20.7		1.7	395
FRUITS, BERRIES, ETC., FRESH. b									
Apples : c									
Edible portion—									
Minimum	29		77.3	.1	.1	8.8	0.9	.2	175
Maximum	29		90.9	.8	1.4	21.3	1.4	.6	420
Average	29		84.6	.4	.5	14.2	(1) 1.2	.3	290
As purchased		25.0	63.3	.3	.3	10.8		.3	220
Apricots : d									
Edible portion, average	11		85.0	1.1		18.4		.5	270
As purchased		6.0	79.9	1.0		12.6		.5	255
Bananas, yellow : e									
Edible portion—									
Minimum	6		66.3	1.0	.0	16.3		.5	330
Maximum	6		81.6	1.6	1.4	29.8		1.1	640
Average	6		75.3	1.8	.6	22.0	(1) 1.6	.8	460
As purchased		35.0	48.9	.8	.4	14.3		.6	300
Blackberries, as purchased : f									
Minimum	9		78.4	.9	.5	7.5		.4	245
Maximum	9		88.9	1.5	2.9	16.7		.9	455
Average	9		86.3	1.8	1.0	10.9	(1) 2.5	.5	270
Cherries : g									
Edible portion—									
Minimum	16		76.9	.7	.8	11.4		.5	320
Maximum	16		86.1	1.1	.8	20.6		1.0	430
Average	16		80.9	1.0	.8	16.7	(1) .8	.6	365
As purchased		5.0	76.8	.9	.8	15.9		.6	345
Cranberries, as purchased :									
Minimum	3		87.6	.4	.4	9.3	1.2	.2	200
Maximum	3		89.5	.5	.9	10.9	1.7	.2	245
Average	3		88.9	.4	.6	9.9	(1) 1.5	.3	215
Currants, as purchased	1		85.0	1.5		12.8		.7	285
Figs, fresh, as purchased, average h.	28		79.1	1.5		18.8		.6	380
Grapes : i									
Edible portion, average	5		77.4	1.3	1.6	19.2	(1) 4.3	.5	450
As purchased		25.0	58.0	1.0	1.2	14.4		.4	335
Huckleberries, edible portion	1		81.9	.6	.6	16.6		.3	345

a Refuse, seeds and stem.

b Fruits contain a certain proportion of inedible materials, as skin, seeds, etc., which are properly classed as refuse. In some fruits, as oranges and prunes, the amount rejected in eating is practically the same as the refuse. In others, as apples and pears, more or less of the edible material is ordinarily rejected with the skin and seeds and other inedible portions. The edible material which is thus thrown away, and should properly be classed with the waste, is here classed with the refuse. The figures for refuse here given represent, as nearly as can be ascertained, the quantities ordinarily rejected.

c The edible portion of 1 sample contained glucose 6.4, cane sugar 6, and starch, acids, etc., 1.2 per cent. The edible portion of 1 sample contained protein ($N \times 6.25$) 0.6 and proteids 0.4 per cent.

d The edible portion of 1 sample contained 11.9 per cent sugar. The fat was not determined.

e The edible portion of 1 sample contained protein ($N \times 6.25$) 1.4 and proteids 1.2 per cent. The edible portion of 1 sample contained 0.1 per cent free acid.

f One sample contained protein ($N \times 6.25$) 0.9 and proteids 0.7 per cent.

g The ash of 1 sample contained CaO 4.2, K₂O 57.7, MgO 5.5, P₂O₅ 15.1, Na₂O 6.8, and SO₃ 5.8 per cent. The edible portion of 1 sample contained protein ($N \times 6.25$) 0.6 and proteids 0.4 per cent. The edible portion of 1 sample contained 0.1 per cent free acid. Six samples contained an average of 11 per cent sugar.

h The ash of 3 samples contained an average of CaO 2.4, K₂O 55.8, MgO 5.6, P₂O₅ 12.4, and SO₃ 3.9 per cent. Fat not determined.

i The ash of 5 samples contained an average of CaO 5, K₂O 50.9, MgO 3, P₂O₅ 21.2, and SO₃ 4.3 per cent.

Chemical composition of American food materials—Continued.

Food materials.		Number of analy- ses.	Refuse.	Water.	Protein.	Fat.	Total carbohy- drates (includ- ing fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.									
VEGETABLE FOOD—Continued.																			
FRUITS; BERRIES, ETC., FRESH—continued.																			
Lemons: <i>a</i>																			
Edible portion—			P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.									
Minimum		4	88.4	0.8	0.1	8.2	0.9	0.5	180										
Maximum		4	90.2	1.1	1.5	9.0	1.3	.5	240										
Average		4	89.8	1.0	.7	8.5	(*) 1.1	.5	205										
As purchased		30.0	62.5	.7	.5	5.9	—	.4	145										
Lemon juice		22	—	—	—	b9.8	—	—	—	180									
Muskmelons:																			
Edible portion		1	89.5	.6	—	9.3	2.1	.6	185										
As purchased		1	50.0	44.8	.3	4.6	—	.3	90										
Nectarines: <i>c</i>																			
Edible portion		1	82.9	.6	—	15.9	—	.6	305										
As purchased		1	6.6	77.4	.6	14.8	—	.6	285										
Oranges: <i>d</i>																			
Edible portion—																			
Minimum		23	80.0	.8	.1	11.6	—	.5	215										
Maximum		23	88.3	1.1	.3	18.5	—	.5	375										
Average		23	86.9	.8	.2	11.6	—	.5	240										
As purchased		27.0	63.4	.6	.1	8.5	—	.4	170										
Peaches:																			
Edible portion—																			
Minimum		2	89.3	.4	.1	9.3	—	.4	185										
Maximum		2	89.6	.9	.1	9.4	—	.5	195										
Average		2	89.4	.7	.1	9.4	(*) 3.6	.4	190										
As purchased		2	18.0	73.3	.5	.1	7.7	—	.3	155									
Pears: <i>e</i>																			
Edible portion—																			
Minimum		2	83.9	.6	.1	14.1	—	.4	275										
Maximum		2	84.8	.6	.8	14.2	(*) 2.7	.5	310										
Average		2	84.4	.6	.5	14.1	—	.4	295										
As purchased		10.0	76.0	.5	.4	12.7	—	.4	260										
Persimmons, edible portion <i>f</i>		1	66.1	.8	.7	31.5	1.8	.9	630										
Pineapple, edible portion <i>g</i>		1	89.3	.4	.3	9.7	.4	.3	200										
Plums: <i>h</i>																			
Edible portion, average		3	78.4	1.0	—	20.1	—	.5	895										
As purchased		5.0	74.5	.9	—	19.1	—	.5	370										
Pomegranates, edible portion: <i>i</i>																			
Minimum		2	75.4	1.3	1.2	18.5	2.6	.5	420										
Maximum		2	78.2	1.6	2.1	20.4	2.8	.8	496										
Average		2	76.8	1.5	1.6	19.5	2.7	.6	460										
Prunes: <i>j</i>																			
Edible portion, average		24	79.6	.9	—	18.9	—	.6	270										
As purchased		20	5.8	75.6	.7	17.4	—	.5	335										
Raspberries, red, as purchased <i>k</i>		1	85.8	1.0	—	12.6	2.9	.6	255										
Raspberries, black, edible portion:																			
Minimum		3	82.2	1.5	—	11.7	—	.4	245										
Maximum		3	86.4	2.1	1.7	13.6	—	.7	350										
Average		3	84.1	1.7	1.0	12.6	—	.6	310										
Raspberry juice, edible portion		1	49.3	.5	—	149.9	—	.3	935										
Strawberries: <i>m</i>																			
Edible portion—																			
Minimum		22	85.4	.6	.4	4.4	.7	.4	130										
Maximum		22	94.0	1.2	1.1	12.3	2.5	.9	235										
Average		22	90.4	1.0	.6	7.4	(*) 1.4	.6	180										
As purchased		5.0	85.9	.9	.6	7.0	—	.6	175										

a The ash of 2 samples contained an average of CaO 29.9, K₂O 48.3, MgO 4.4, P₂O₅ 11.1, and SO₃ 2.8 per cent. Two samples contained an average of protein (N × 6.25) 0.9 and proteids 0.5 per cent.

b Sugar 2.3, citric acid 7.5 per cent.

c Fat not determined.

d The ash of 9 samples contained an average of CaO 22.7, K₂O 48.9, MgO 5.4, P₂O₅ 12.4, and SO₃ 5.2 per cent. Fat determined in 8 samples, the mean of these assumed to be an average. Eight samples contained an average of 9 per cent sugar.

e One sample contained protein (N × 6.25) 0.6 and proteids 0.3 per cent.

f Contained glucose 13.5, cane sugar 1 per cent.

g Contained protein (N × 6.25) 0.4 and proteids 0.1 per cent.

h The edible portion contained 13.2 per cent sugar. Fat not determined.

i Two samples contained an average of glucose 11, of cane sugar 0.7 per cent.

j The ash of the edible portion of 3 samples contained an average of CaO 4.7, K₂O 63.8, MgO 5.5, P₂O₅ 14.1, and SO₃ 2.7 per cent. Edible portion of 20 samples contained an average of 16.1 per cent sugar. Fat was not determined.

k Fat not determined.

l Probably sweetened.

m Four samples contained an average of protein (N × 6.25) 0.7 and proteids 0.5 per cent. Fifteen samples contained an average of glucose 5.5 and free acid, calculated as malic acid, 1.4 per cent.

Chemical composition of American food materials—Continued.

Food materials.	Number of analy- ses.	Refuse.	Water.	Protein.	Fat.	Total carbo- hydrates (includ- ing fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
FRUITS, BERRIES, ETC., FRESH—continued.									
Watermelons: a									
Edible portion—		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
Minimum	2	92.0	0.3	0.1	6.5	.....	.....	0.2	125
Maximum	2	92.9	.6	.2	6.9	.....	.....	.3	160
Average	2	92.4	.4	.2	6.7	.....	.....	.3	140
As purchased	59.4	37.5	2	1	2.7	.....	.....	1	60
Whortleberries, as purchased b	1	82.4	.7	3.0	13.5	5.8	.....	.4	390
FRUITS, ETC., DRIED.									
Apples, as purchased: c									
Minimum	3	.....	8.6	1.2	.1	48.6	.....	1.4	985
Maximum	3	.....	47.4	2.5	5.0	86.9	.....	2.7	1,630
Average	3	.....	28.1	1.6	2.2	66.1	.....	2.0	1,350
Apricots, as purchased: d									
Minimum	2	.....	26.4	2.9	1.0	62.7	.....	1.4	1,230
Maximum	2	.....	32.4	2.4	1.1	63.3	.....	3.4	1,330
Average	2	.....	29.4	4.7	1.0	62.5	.....	2.4	1,290
Citron, as purchased:									
Minimum	2	.....	12.4	.4	.6	72.5	.....	.8	1,380
Maximum	2	.....	25.6	.6	2.5	83.7	.....	.9	1,875
Average	2	.....	19.0	.5	1.5	78.1	.....	.9	1,525
Currants, Zante, as purchased:									
Minimum	4	.....	5.3	1.0	.4	60.0	.....	2.2	1,195
Maximum	4	.....	35.1	4.7	4.7	85.3	.....	9.1	1,690
Average	4	.....	17.2	2.4	1.7	74.9	.....	4.5	1,495
Dates:									
Edible portion—									
Minimum	2	.....	9.9	2.1	.6	70.4	.....	1.1	1,565
Maximum	2	.....	20.8	2.2	5.1	86.3	.....	1.5	1,670
Average	2	.....	15.4	2.1	2.8	78.4	.....	1.3	1,615
As purchased	10.0	13.8	1.9	2.5	70.6	.....	.....	1.2	1,450
Figs, as purchased: e									
Minimum	3	.....	11.6	2.6	.3	68.3	.....	2.2	1,355
Maximum	3	.....	25.0	5.7	.3	83.1	.....	2.5	1,595
Average	3	.....	18.8	4.8	.8	74.2	.....	2.4	1,475
Grapes, ground, as purchased: f									
Pears, as purchased.									
Prunes: h									
Edible portion—									
Minimum	15	.....	16.9	1.4	.....	68.1	.....	1.5	1,340
Maximum	15	.....	27.5	3.2	.....	78.6	.....	3.0	1,500
Average	15	.....	22.8	2.1	.....	73.3	.....	2.3	1,400
As purchased	15.0	19.0	1.8	.....	62.2	.....	.....	2.0	1,190
Raisins:									
Edible portion—									
Minimum	3	.....	7.1	2.3	.5	71.3	.....	2.0	1,540
Maximum	3	.....	21.0	3.0	7.2	78.8	.....	5.0	1,805
Average	3	.....	14.6	2.6	3.3	78.1	.....	3.4	1,605
As purchased	10.0	13.1	2.3	3.0	68.5	.....	.....	3.1	1,445
Raspberries, as purchased.									
FRUITS, ETC., CANNED; AND JELLIES, PRE- SERVES, ETC.									
Apples, crab, as purchased	1	.....	42.4	.3	2.4	54.4	.....	.5	1,120
Apple sauce, as purchased	1	.....	61.1	.2	.8	37.2	.....	.7	730
Apricots, as purchased	1	.....	81.4	.9	.....	17.3	.....	.4	340
Apricot sauce, as purchased	1	.....	45.2	1.9	1.3	48.8	.....	2.8	1,000
Blackberries, as purchased	1	.....	40.0	.8	2.1	58.4	.....	.7	1,150

a In one melon the rind was 55.8 of the whole, the pulp 6.9, the seeds 2.2, and the juice 35.1 per cent. The edible portion of 1 sample contained protein ($N \times 6.25$) 0.9 and proteids 0.3 per cent.

b Contained protein ($N \times 6.25$) 0.7 and proteids 0.5 per cent.

c One sample contained 2 per cent free acid calculated as sulphuric acid.

d One sample contained 1.5 per cent free acid calculated as sulphuric acid.

e One sample contained 0.4 per cent free acid calculated as sulphuric acid.

f Contained 0.8 per cent free acid calculated as sulphuric acid and 1.3 per cent tannin.

g The percentage of fat given is evidently too high.

h Twelve samples contained an average of sugar 25.4 and free acid 0.3 per cent, calculated as sulphuric acid. Fat not determined.

Chemical composition of American food materials—Continued.

Food materials.		Number of analy- ses.	Refuse.	Water.	Protein.	Fat.	Total carbohy- drates (includ- ing fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.									
VEGETABLE FOOD—Continued																			
FRUITS, ETC., CANNED; AND JELLIES, PRESERVES, ETC.—continued.																			
Blueberries, as purchased:			P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.									
Minimum.....	3	84.9	0.4	0.4	12.2				0.2	260									
Maximum.....	3	86.4	.8	.9	13.8				.5	280									
Average.....	8	85.6	.6	.6	12.8				.4	275									
Cherries, as purchased.....	1	77.2	1.1	.1	21.1				.5	415									
Cherry jelly:																			
1st quality, as purchased.....	1	21.0	1.1		77.2				.7	1,455									
2d quality, as purchased.....	1	38.4	1.2		59.8				.6	1,135									
Figs, stewed, as purchased.....	1	56.5	1.2	.3	40.9				1.1	785									
Grape butter, as purchased.....	1	36.7	1.2	.1	58.5				3.5	1,115									
Marmalade (orange peel), as purchased a.....	1	14.5	.6	.1	84.5				.3	1,585									
Peaches, as purchased:																			
Minimum.....	3	81.4	.5		5.3				.3	115									
Maximum.....	3	93.7	.9	.2	17.8				.4	340									
Average.....	8	88.1	.7	.1	10.8				.8	220									
Pears, as purchased:																			
Minimum.....	4	79.2		.1	15.6				.2	300									
Maximum.....	4	83.6	.5	.9	19.5				.3	400									
Average.....	4	81.1	.8	.8	18.0				.8	385									
Pineapples, as purchased.....	1	61.8	.4	.7	36.4				.7	715									
Prune sauce, as purchased.....	1	76.6	.5	.1	22.3				.5	430									
Strawberries, stewed, as purchased.....	1	74.8	.7		24.0				.5	460									
Tomato preserves, as purchased.....	1	40.9	.7	.1	57.6				.7	1,090									
NUTS.																			
Almonds: b																			
Edible portion—																			
Minimum.....	11	2.0	16.6	48.9	12.8		1.6	1.6	2,870										
Maximum.....	11	5.3	25.3	60.0	21.4		2.5	2.5	3,145										
Average.....	11	4.8	21.0	54.9	17.8		2.0	2.0	3,080										
As purchased.....		45.0	2.7	11.5	30.2	9.5		1.1	1,600										
Beechnuts:																			
Edible portion.....	1	4.0	21.9	57.4	18.2			3.5	3,075										
As purchased.....	1	40.8	2.3	13.0	34.0	7.8		2.1	1,820										
"Biotas" (acorns). (<i>Quercus emoryi</i>):																			
Edible portion.....	1	4.1	8.1	37.4	48.0			2.4	2,620										
As purchased.....	1	35.6	2.6	5.2	24.1	30.9		1.6	1,690										
Brazil nuts (<i>Bertholletia excelsa</i>):																			
Edible portion.....	1	5.3	17.0	66.8	7.0			3.9	3,265										
As purchased.....	1	49.6	2.6	8.6	33.7	3.5		2.0	1,655										
Butternuts (<i>Juglans cinerea</i>):																			
Edible portion.....	1	4.4	27.9	61.2	3.5			2.9	3,165										
As purchased.....	1	86.4	.6	3.8	8.3	.5		.4	430										
Chestnuts, fresh: c																			
Edible portion—																			
Minimum.....	9	29.2	4.1	2.0	36.9	1.4		.7	895										
Maximum.....	9	53.8	8.0	10.8	54.0	2.5		1.8	1,480										
Average.....	9	45.0	6.2	5.4	42.1	1.8		1.3	1,125										
As purchased.....		16.0	37.8	5.2	45	35.4		1.1	945										
Chestnuts, dried:																			
Edible portion—																			
Minimum.....	8	4.8	8.2	3.9	65.7	2.4		1.5	1,815										
Maximum.....	8	6.6	13.5	15.3	80.3	3.0		2.9	2,085										
Average.....	8	5.9	10.7	7.0	74.2	2.7		2.2	1,875										
As purchased.....		21.0	4.5	8.1	5.3	56.4		1.7	1,425										
Cocoanuts:																			
Edible portion.....	1	14.1	5.7	50.6	27.9			1.7	2,760										
As purchased.....	1	448.8	7.2	2.9	25.9	14.3		.9	1,418										
Cocoanut without milk, as purchased.....	1	637.3	8.9	3.6	31.7	17.5		1.0	1,730										
Cocoanut milk, as purchased.....	1	92.7	.4	1.5	4.6			.8	155										
Cocoanut, prepared, as purchased:																			
Minimum.....	2	2.8	6.0	51.0	24.1			1.2	2,990										
Maximum.....	2	4.3	6.5	63.7	39.0			1.4	3,260										
Average.....	2	3.5	6.8	57.4	31.5			1.3	3,125										

a Fifteen samples of marmalade contain an average of water 30.8, sugar 32.8, invert sugar 32.3, glucose 14.2, acid 0.5, and undetermined 3.6 per cent.

b Fresh almonds contain from 40 to 42 per cent water. The ash of the kernel contains CaO 14.5, MgO 18.3, Na₂O 1.8, K₂O 11, MnO₂ 0.3, Fe₂O₃+Al₂O₃ 0.8, P₂O₅ 48.1, SO₃ 4.6, SiO₂ 0.2, and Cl 0.3 per cent.

c The ash of 2 samples contained an average of CaO 4.6, MgO 8, Na₂O 1.2, K₂O 48.7, MnO₂ 0.2, Fe₂O₃+Al₂O₃ 0.4, P₂O₅ 23.5, SO₃ 12.8, SiO₂ 0.2, and Cl 0.3 per cent.

d Milk and shell.

e Shell only.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.	Fat.	Total carbohydrates (including fiber).	Fiber (number of determinations in parentheses).	Ash.	Fuel value per pound.
VEGETABLE FOOD—Continued.									
NUTS—continued.									
Filberts:									
Edible portion	1	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.
As purchased	1	52.1	3.7	15.6	65.3	13.0	.....	2.4	3,290
Hickory nuts:									
Edible portion	1	.....	3.7	15.4	67.4	11.4	.....	2.1	3,345
As purchased	1	62.2	1.4	5.8	25.5	4.3	.....	.8	1,265
Lichi nuts:									
Edible portion	1	.....	17.9	2.9	.2	77.5	.....	1.5	1,505
As purchased	1	41.6	10.5	1.7	.1	45.2	.....	.9	875
Peanuts:									
Edible portion—									
Minimum	4	.....	4.9	19.5	32.3	15.3	2.0	1.0	2,415
Maximum	4	.....	13.2	29.1	48.8	40.4	3.0	2.4	2,885
Average	4	.....	9.2	25.8	38.6	24.4	2.5	2.0	2,560
As purchased	24.5	.....	6.9	19.5	29.1	18.5	.....	1.5	1,985
Peanut butter, as purchased	2	.....	2.1	20.3	46.5	17.1	.....	6.0	2,825
Pecans, polished:									
Edible portion	1	.....	3.0	11.0	71.2	13.3	.....	1.5	3,455
As purchased	1	58.2	1.4	5.2	33.3	6.2	.....	.7	1,620
Pecans, unpolished:									
Edible portion	1	.....	2.7	9.6	70.5	15.3	.....	1.9	3,435
As purchased	1	48.3	1.5	5.1	37.9	8.2	.....	1.0	1,846
Pine nuts:									
Pignolias, edible portion	1	.....	6.4	33.9	49.4	6.9	.....	3.4	2,845
Pinionies (<i>Pinus monophylla</i>)—									
Edible portion	1	.....	3.8	6.5	60.7	26.2	.....	2.8	3,170
As purchased	1	41.7	2.2	3.8	35.4	15.3	.....	1.6	1,850
Piñon (<i>Pinus edulis</i>)—									
Edible portion	1	.....	3.4	14.6	61.9	17.3	.....	2.8	3,205
As purchased	1	40.6	2.0	8.7	36.8	10.2	.....	1.7	1,905
Sabine pine nut (<i>Pinus sabiniana</i>)—									
Edible portion	1	.....	5.1	28.1	58.7	8.4	.....	4.7	2,945
As purchased	1	77.0	1.2	6.5	12.3	1.9	.....	1.1	675
Pistachios:									
First quality, shelled, edible portion	1	.....	4.2	22.3	54.0	16.3	.....	3.2	2,995
Second quality, shelled, edible portion	1	.....	4.3	22.8	54.9	14.9	.....	3.0	3,020
Walnuts, California, b:									
Edible portion	1	.....	2.5	18.4	64.4	13.0	1.4	1.7	3,300
As purchased	1	73.1	.7	4.9	17.3	3.5	.....	.5	885
Walnuts, California, black:									
Edible portion—									
Minimum	2	.....	2.5	24.9	54.7	7.4	1.6	1.8	3,070
Maximum	2	.....	2.5	30.3	57.8	16.1	1.8	2.0	3,140
Average	2	.....	2.5	27.6	56.3	11.7	1.7	1.9	3,105
As purchased	74.1	.....	.6	7.2	14.6	3.0	.....	.5	805
Walnuts, California, soft shell:									
Edible portion—									
Minimum	4	.....	2.5	14.3	60.0	14.5	1.4	1.2	3,195
Maximum	4	.....	2.5	20.4	67.0	19.1	3.2	1.6	3,370
Average	4	.....	2.5	16.6	63.4	16.1	2.6	1.4	3,285
As purchased	58.1	.....	1.0	6.9	26.6	6.8	.....	.6	1,375
"Malted nuts," as purchased	1	.....	2.6	23.7	27.6	43.9	.....	2.2	2,240
MISCELLANEOUS.									
Chocolate, as purchased:									
Minimum	2	.....	1.5	12.5	47.1	26.8	.....	1.1	2,720
Maximum	2	.....	10.3	13.4	50.2	33.8	.....	3.2	2,995
Average	2	.....	5.9	12.0	48.7	30.8	.....	2.2	2,860
Cocoa, as purchased:									
Minimum	3	.....	3.2	20.6	27.1	35.3	.....	5.4	2,235
Maximum	3	.....	5.4	22.7	31.5	40.8	.....	8.9	2,370
Average	3	.....	4.6	21.6	28.0	37.7	.....	7.2	2,320
Cereal coffee infusion (1 part boiled in 20 parts water) c:	5	.....	98.2	0.2	.....	1.4	.....	0.2	30
Yeast, compressed, as purchased	1	.....	65.1	11.7	.4	21.0	.....	1.8	625

a 4.1 per cent salt.

b Fresh walnuts contain from 20 to 27 per cent water. The ash of 7 samples of kernel contained an average of CaO 5.6, MgO 18.6, Na₂O 1, K₂O 12.7, MnO₂ 0.3, Fe₂O₃+Al₂O₃ 3.2, P₂O₅ 57.8, SO₃ 1.3, SiO₂ 0.7, and Cl 0.7 per cent.

c The average of five analyses of cereal coffee grain is: Water 6.2, protein 13.3, fat 3.4, carbohydrates 72.6, and ash 4.5 per cent. Only a portion of the nutrients, however, enter into the infusion. The average in the table represents the available nutrients in the cereal coffee infusion. Infusions of genuine coffee and of tea contain practically no nutrients.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Water.		Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.					
		Refuse.	N × 6.25.	P. ct.	By difference.									
UNCLASSIFIED FOOD MATERIALS.														
ANIMAL AND VEGETABLE.														
<i>Soups, homemade.</i>														
Beef soup, as purchased:		P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Cals.					
Minimum	2	92.3	2.7	.....	0.3	.....	1.1	1.1	110			
Maximum	2	93.5	6.2	.....	.5	2.2	1.2	1.2	130			
Average	2	92.9	4.4	.....	.4	1.1	1.2	1.2	120			
Bean soup, as purchased..	1	84.3	3.2	.....	1.4	9.4	1.7	1.7	295				
Chicken soup, as purchased..	1	84.3	10.5	.....	.8	2.4	2.0	2.0	275			
Clam chowder, as purchased:														
Minimum	2	81.6	.7	.....	.5	2.5	.6	.6	80			
Maximum	2	95.7	2.9	.....	1.1	11.0	3.4	3.4	305				
Average	2	88.7	1.8	.....	.8	6.7	2.0	2.0	195			
Meat stew, as purchased:														
Minimum	5	82.6	3.7	.....	2.0	4.3	1.0	1.0	255				
Maximum	5	87.6	5.6	.....	6.4	7.9	1.3	1.3	445				
Average	5	84.5	4.6	.....	4.3	5.5	1.1	1.1	370				
<i>Soups, canned.</i>														
Asparagus, cream of, as purchased.....	1	87.4	2.5	.....	3.2	5.5	1.4	1.4	285				
Bouillon, as purchased:														
Minimum	3	96.5	1.7	.....	.....	.1	.4	.4	40		
Maximum	3	96.7	2.6	.....	.2	.3	1.4	1.4	50			
Average	3	96.6	2.2	.....	.1	.2	.9	.9	50			
Celery, cream of, as purchased.....	1	88.6	2.1	.....	2.8	5.0	1.5	1.5	250				
Chicken gumbo, as purchased:														
Minimum	2	86.8	3.0	.....	.2	3.8	1.3	1.3	135			
Maximum	2	91.7	4.6	.....	1.7	5.5	1.4	1.4	280				
Average	2	89.2	3.8	.....	.9	4.7	1.4	1.4	195			
Chicken soup, as purchased:														
Minimum	2	93.2	3.2	.....	.....	1.2	.9	.9	90			
Maximum	2	94.5	3.9	.....	.2	1.7	1.2	1.2	105			
Average	2	93.8	3.6	.....	.1	1.5	1.0	1.0	100			
Consonné, as purchased.....	1	96.0	2.5	.....	.....	.4	1.1	1.1	55		
Cream, corn of, as purchased.....	1	86.8	2.5	.....	1.9	7.8	1.0	1.0	270				
Julienne, as purchased.....	1	95.9	2.7	.....	.....	.5	.9	.9	60		
Mock turtle, as purchased:														
Minimum	2	88.9	4.5	.....	.5	1.6	1.2	1.2	180			
Maximum	2	90.8	5.9	.....	1.3	3.9	1.4	1.4	210				
Average	2	89.8	5.2	.....	.9	2.8	1.8	1.8	185			
Mulligatawny, as purchased:														
Minimum	2	87.2	3.3	.....	.....	3.8	1.1	1.1	145			
Maximum	2	91.3	4.1	.....	.3	7.6	1.3	1.3	215			
Average	2	89.3	3.7	.....	.1	5.7	1.2	1.2	180			
Oxtail:														
Edible portion—														
Minimum	2	88.3	3.9	.....	.5	4.2	1.3	1.3	175			
Maximum	2	89.4	4.1	.....	2.1	4.3	1.9	1.9	245				
Average	2	88.8	4.0	.....	1.8	4.3	1.6	1.6	210				
As purchased	1	1.8	87.8	3.8	.....	.5	4.2	1.9	170			
Pea soup, as purchased:														
Minimum	4	81.6	1.5	.....	.....	5.1	.7	.7	220			
Maximum	4	91.7	5.8	.....	1.6	11.1	1.5	1.5	315				
Average	4	86.9	3.6	.....	.7	7.6	1.2	1.2	285			
Pea, cream of green, as purchased.....	1	87.7	2.6	.....	2.7	5.7	1.3	1.3	270				
Tomato soup, as purchased:														
Minimum	2	89.7	1.7	.....	.9	5.3	1.2	1.2	180			
Maximum	2	90.4	1.9	.....	1.2	6.0	1.7	1.7	185				
Average	2	90.0	1.8	.....	1.1	5.6	1.5	1.5	185				
Turtle, green, as purchased.....	1	86.6	6.1	.....	1.9	3.9	1.5	1.5	265				
Vegetable, as purchased.....	1	95.7	2.9	.....	.....	.5	.9	.9	65		
<i>Miscellaneous.</i>														
Hash, as purchased.....	1	80.3	6.0	.....	1.9	9.4	2.4	2.4	365				
"Infants' and invalids' foods," as purchased: a														
Minimum	22	2.4	2.0	.....	.3	66.9	.3	.3	1,615			
Maximum	22	12.3	22.5	.....	10.9	89.4	4.5	4.5	1,985				
Average	22	6.0	12.7	.....	3.3	76.2	1.8	1.8	1,795				

a This includes malted milk, infants' foods, and similar preparations which are sold under various trade names but are similar in composition.

Chemical composition of American food materials—Continued.

Food materials.	Number of analyses.	Refuse.	Water.	Protein.		Fat.	Total carbohydrates.	Ash.	Fuel value per pound.							
				N × 6.25.	By difference.											
UNCLASSIFIED FOOD MATERIALS—Cont'd.																
ANIMAL AND VEGETABLE—cont'd.																
<i>Miscellaneous—cont'd.</i>																
Mincemeat, commercial, as purchased:																
Minimum	3	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	Oals.							
Maximum	3	.....	20.8	1.4	.....	.8	56.7	1.1	1,125				
Average.....	3	.....	39.7	14.6	.....	2.2	67.4	7.1	1,420					
Mincemeat, homemade, as purchased:																
Minimum	3	.....	49.6	3.4	.....	4.9	28.6	1.9	900					
Maximum	3	.....	56.9	6.3	.....	8.1	34.1	2.5	1,080					
Average.....	3	.....	54.4	4.8	.....	6.7	32.1	2.0	970					
Salad, ham, as purchased.....																
.....	1	.....	69.4	15.4	.....	7.6	5.6	2.0	710					
Sandwich, egg, as purchased.....																
.....	1	41.4	9.6	12.7	34.5	1.8	1,355							
Sandwich, chicken, as purchased.....																
.....	1	48.5	12.3	5.4	32.1	1.7	1,055							

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