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When requested to convert the weight in water of 5000 gram samples used in the weight in air versus weight in water method of specific gravity determinations, the conversion to total solids shall be based on Table II.

TABLE II—SPECIFIC GRAVITY CONVERSION CHART FOR 5,000 GRAMS OF POTATOES

Water weight	Specific gravity	Total solids
300	1.0638	17.2
310	1.0661	17.7
320	1.0684	18.2
322	1.0688	18.3
324	1.0693	18.4
326	1.0697	18.5
328	1.0702	18.6
330	1.0707	18.7
332	1.0711	18.8
334	1.0716	18.9
336	1.0720	19.0
338	1.0725	19.1
340	1.0730	19.2
342	1.0734	19.3
344	1.0739	19.4
346	1.0743	19.5
348	1.0748	19.6
350	1.0753	19.7
352	1.0757	19.8
354	1.0762	19.9
356	1.0766	20.0
358	1.0771	20.1
360	1.0776	20.2
362	1.0780	20.3
364	1.0785	20.4
366	1.0790	20.5
368	1.0794	20.6
370	1.0799	20.7
372	1.0804	20.8
374	1.0808	20.9
376	1.0813	21.0
378	1.0818	21.1
380	1.0822	21.2
382	1.0827	21.3
384	1.0832	21.4
386	1.0836	21.5
388	1.0841	21.6
390	1.0846	21.7
392	1.0851	21.8
394	1.0855	21.9
396	1.0860	22.0
398	1.0865	22.1
400	1.0870	22.2
402	1.0874	22.3
404	1.0879	22.4
406	1.0884	22.5
408	1.0888	22.6
410	1.0893	22.7
412	1.0898	22.8
414	1.0903	22.9
416	1.0908	23.0
418	1.0912	23.1
420	1.0917	23.2
422	1.0922	23.4
424	1.0926	23.5
426	1.0931	23.6
428	1.0936	23.7
430	1.0941	23.8
432	1.0946	23.9
440	1.0965	24.4
450	1.0989	24.9

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TABLE II—SPECIFIC GRAVITY CONVERSION CHART FOR 5,000 GRAMS OF POTATOES—Continued

Water weight	Specific gravity	Total solids
460	1.1013	25.4
470	1.1040	26.0

Whenever the recorded water weight for an individual reading falls between two sets of numbers as indicated in Table II, the next higher reading shall be used.

§ 51.3418 Optional test for fry color.

Fry color may be determined in accordance with contract specifications by using the Munsell Color Standards for Frozen French Fried Potatoes, Third Edition, 1972, 64-1.⁵ Select a minimum of twenty (20) potatoes at random from the official sample. Slice each potato from stem to blossom-end into ½ square inch strips. Unless otherwise specified, fry center cut strips in oil for a minimum of 3 minutes at 350°F or 2½ minutes at 375°F.

Subpart—United States Standards for Grades of Honey Dew and Honey Ball Type Melons

SOURCE: 32 FR 3213, Feb. 24, 1967, unless otherwise noted. Redesignated at 42 FR 32514, June 27, 1977, and further redesignated at 46 FR 63203, Dec. 31, 1981.

GRADES

§ 51.3740 U.S. No. 1.

“U.S. No. 1” consists of honey dew or honey ball type melons which are mature, firm, well formed, which are free from decay, and free from damage caused by dirt, aphid stain, rust spots, bruises, cracks, broken skin, sunscald, sunburn, hail, moisture, insects, disease, or other means. (See § 51.3744.)

§ 51.3741 U.S. Commercial.

“U.S. Commercial” consists of honey dew or honey ball type melons which

⁵Munsell Color Standards for Frozen French Fried Potatoes, Third Edition, 1972, 64-1, may be purchased from the Munsell Color Co., 2441 North Calvert St., Baltimore, MD 21218.

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meet the requirements of U.S. No. 1 grade except for the increased tolerances for defects. (See §51.3744.)

§51.3742 U.S. No. 2.

“U.S. No. 2” consists of honey dew or honey ball type melons which are mature, firm, fairly well formed, free from decay and free from serious damage by any cause. (See §51.3744.)

UNCLASSIFIED

§51.3743 Unclassified.

“Unclassified” consists of melons which have not been classified in accordance with any of the foregoing grades. The term “unclassified” is not a grade within the meaning of these standards but is provided as a designation to show that no grade has been applied to the lot.

TOLERANCES

§51.3744 Tolerances.

In order to allow for variations incident to proper grading and handling in each of the foregoing grades, the following tolerances, by count, are provided as specified:

(a) *U.S. No. 1.* 10 percent for melons in any lot which fail to meet the requirements of the grade: *Provided*, That not more than one-half of this amount, or 5 percent, shall be allowed for defects causing serious damage, including in this latter amount not more than 1 percent for melons affected by decay.

(b) *U.S. Commercial.* 20 percent for melons in any lot which fail to meet the requirements of this grade: *Provided*, That not more than one-fourth of this amount, or 5 percent, shall be allowed for defects causing serious damage, including in this latter amount not more than 1 percent for melons affected by decay.

(c) *U.S. No. 2.* 10 percent for melons in any lot which fail to meet the requirements of this grade including not more than 1 percent for melons affected by decay.

APPLICATION OF TOLERANCES

§51.3745 Application of tolerances.

The contents of individual packages in the lot, based on sample inspection,

are subject to the following limitations:

(a) For a tolerance of 10 percent or more, individual packages shall have not more than 1½ times the tolerance specified: *Provided*, That when the package contains 15 specimens or less, any individual package shall have not more than double the tolerance specified, except that at least one defective specimen may be permitted in any package: *And provided further*, That the averages for the entire lot are within the tolerances specified for the grade.

(b) For a tolerance of less than 10 percent, individual packages in any lot shall have not more than double the tolerance specified, except that at least one defective specimen may be permitted in any package: *Provided*, That the averages for the entire lot are within the tolerances specified for the grade.

DEFINITIONS

§51.3746 Mature.

Mature means that the melon has reached the stage of maturity which will insure the proper completion of the normal ripening process.

§51.3747 Well formed.

Well formed means that the melon has the normal shape characteristic of the variety.

§51.3748 Damage.

Damage means any specific defect described in this section; or an equally objectionable variation of any one of these defects, any other defect, or any combination of defects, which materially detracts from the appearance, or the edible or marketing quality of the melon.

(a) The following specific defects shall be considered as damage:

(1) Sunburn which causes the rind to become brownish in color, hard, tough, or thin; and,

(2) Bruising when the size or color of the affected area materially detracts from the appearance.

(b) The following blemishes shall not be considered as damage:

(1) Slight bruising caused by light pressure of the weight of other melons or from lidding of the crate;