

§ 4-41-27

STANDARDS FOR HAWAII-GROWN AVOCADOS *

This UNOFFICIAL COPY of standards for avocados, rewritten for easy interpretation, is based on Chapter 4-41, Hawaii Administrative Rules, Standards for Fresh Fruits and Vegetables. The general provisions of this Chapter, summaries of standards for other fruits and vegetables, and official copies of the complete chapter are available in each county.

HAWAII FANCY (GRADE AA)	HAWAII NO. 1 (GRADE A)	HAWAII NO. 2 (GRADE B)
<u>Basic Requirements</u>	<u>Basic Requirements</u>	<u>Basic Requirements</u>
Similar varietal characteristics (1)	Similar varietal characteristics (1)	Similar varietal characteristics (1)
Mature (2)	Mature (2)	Mature (2)
Not overripe (3)	Not overripe (3)	Not overripe (3)
Clean (4)	Clean (4)	Clean (4)
Well trimmed (5)	Well trimmed (5)	Well trimmed (5)
Well formed (6)	Well formed (6)	Fairly well formed (13)
Small seeded (7)	Fairly small seeded (10)	Not excessively large seeded (14)
<u>Free From</u>	<u>Free From</u>	<u>Free From</u>
Fibre (8)	Fibre (8)	Excessive Fibre (15)
Decay	Decay	Decay
Worms	Worms	Worms
Worm holes	Worm holes	Worm holes
Unhealed insect stings	Unhealed insect stings	Unhealed insect stings
Broken skin	Broken skin	Broken skin
Bruises	Bruises	Bruises
Freezing injury	Freezing injury	Freezing injury
Sunburn		
Disease		
Pulled stem		
<u>Free From Injury (9)</u>	<u>Free From Damage (11)</u>	<u>Free From Serious Damage (12)</u>
<u>Caused By</u>	<u>Caused By</u>	<u>Caused By</u>
Russeting	Russeting	Russeting
Scars	Scars	Scars
Insect stings	Insect stings	Insects
Other insect injury	Other insect injury	Mechanical or other means
Mechanical or other means	Mechanical or other means	Sunburn
	Sunburn	Disease
	Disease	Pulled stem
	<u>Free From Serious Damage (12) Caused By</u>	
	Pulled stem	

*Numbers in parentheses following grade terms indicate where such terms are defined under "Definitions."

Oil Content
12% minimum

Size Requirement
10 ounces minimum
unless otherwise
specified as small,
medium, large or extra
large.

Tolerances (count basis)
Defects: Total 10%;
provided not more than
3% serious damage,
including 1% decay.
Off-size: Total 10%;
provided not more than
5% below the specified
minimum size.

Oil Content
12% minimum

Size Requirement
10 ounces minimum
unless otherwise
specified as small,
medium, large or extra
large.

Tolerances (count basis)
Defects: Total 10%;
provided not more than
3% serious damage,
including 1% decay.
Off-size: Total 10%;
provided not more than
5% below the specified
minimum size.

Oil Content
10% minimum

Size Requirement
None; however, may be
specified as small,
medium, large or extra
large.

Tolerances (count basis)
Defects: Total 10%;
provided not more than
1% decay.
Off-size: Total 10%;
provided not more than
5% below the specified
minimum size.

OFF-GRADE. "Off-grade" is not a grade within the meaning of these standards, but is a descriptive term applicable to avocados which have a market value, and designates a quality lower than the lowest applicable Hawaii, other states or the United States grade for avocados.

OPTIONAL SIZE CLASSIFICATION. The size of avocados in any container or any lot may be specified in connection with the grade and according to the size classifications designated below, such as "Hawaii No. 1, Small", "Hawaii Fancy, Large" or "Hawaii No. 1, Extra Large", in accordance with the facts:

Small	Under 10 oz.
Medium	10 - 16 oz.
Large	16 - 32 oz.
Extra Large	Over 32 oz.

APPLICATION OF TOLERANCES. Averages for the entire lot, based on examinations of representative samples, shall be within the tolerances specified, but the contents of individual containers in any lot may vary from the specified tolerances subject to the following limitations:

When the tolerance specified is more than 5 percent, individual packages in any lot may contain not more than 1-1/2 times the tolerance, provided that at least one specimen which fails to meet the requirements shall be permitted in any container.

When the tolerance specified is 5 percent or less, individual packages in any lot may contain not more than double the tolerance, provided that at least one specimen which fails to meet the requirements shall be permitted in any container.

APPLICABLE GRADE TERMS. Avocados shall be classified in accordance with the grading system designated below:

Wholesale Quantities - HAWAII FANCY, HAWAII NO. 1 or HAWAII NO. 2,
whichever is applicable.

Consumer Packages
and Bulk Displays - HAWAII GRADE AA, HAWAII GRADE A or HAWAII GRADE B,
whichever is applicable.

MINIMUM EXPORT GRADE. Avocados for export shall at least meet the requirements of Hawaii No. 1 avocados.

DEFINITIONS.

- (1) "Similar varietal characteristics" means the avocados are alike in shape, texture, and color of skin and flesh.
- (2) "Mature" means the avocado has reached a stage of growth which will insure a proper completion of the ripening process.
- (3) "Overripe" means dead-ripe with the flesh becoming excessively soft, or discolored, or past commercial utility. Such avocados are considered to be seriously damaged.
- (4) "Clean" means the fruit is practically free from dirt, staining, spray residue or other foreign material.
- (5) "Well trimmed" means the stem, when present, is cut off smoothly at a point not more than 1/4 inch beyond the shoulder of the fruit.
- (6) "Well formed" means the fruit shape is characteristic of the variety, and the avocado is not so abnormally shaped as to appreciably detract from the appearance of the fruit.
- (7) "Small-seeded" means the average weight of the seeds in the avocados in any container or lot is not more than 20 percent of the total weight of the fruit.
- (8) "Free from fibre" means none of the vascular strands or other tissues in the flesh of the fruit are tough or fibrous.
- (9) "Injury" means any specific defect described in Table 1, Classification of Defects; or an equally objectionable variation of any one of these defects, any other defect, or any combination of defects, which appreciably detracts from the appearance, or the edible or shipping quality of the avocados.
- (10) "Fairly small-seeded" means the average weight of the seeds in the avocados in any container or lot is not more than 23 percent of the total weight of the fruit.
- (11) "Damage" means any specific defect described in Table 1, Classification of Defects; 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 shipping quality of the avocados.

(12) "Serious damage" means any specific defect described in Table 1, Classification of Defects; or an equally objectionable variation of any one of these defects, any other defect, or any combination of defects, which seriously detracts from the appearance, or the edible or shipping quality of the avocados.

(13) "Fairly well formed" means the avocado may be slightly abnormal in shape but not to the extent which detracts materially from its appearance.

(14) "Excessively large seeded" means the average weight of the seeds in the avocados in any container or lot is more than 28 percent of the total weight of the fruit.

(15) "Excessive fibre" means the vascular strands or other tissues in the flesh of the fruit are tough and woody, except that a few short fibrous strands may be present near the stem or blossom end.

Table 1. Classification of Defects

FACTOR	INJURY	DAMAGE	SERIOUS DAMAGE
Smooth russeting or light colored smooth scars	Aggregating 1 inch or more in diameter on avocados weighing 16 oz., or 3/4 inch or more on avocados weighing less than 16 oz.	Aggregating more than an area equivalent to 15% of the fruit surface.	Aggregating more than an area equivalent to 25% of the fruit surface.
Rough russeting or rough or dark scars.	Aggregating more than an area 1/4 inch in diameter.	Aggregating an area 3/4 inch in diameter on avocados weighing 16 oz. or more, or 1/2 inch in diameter on avocados weighing less than 16 oz.	Aggregating more than an area 2 inches in diameter on avocados 16 oz. or more, 1-1/2 inches in diameter on avocados weighing less than 16 oz., or when any scar is excessively deep.
Insect stings	Any healed sting on Guatemalan type avocados, or more than 3 healed stings on West Indian type avocados, provided allowance for scars is not exceeded.	More than 2 healed stings on Guatemalan type avocados, or more than 6 healed stings on West Indian type avocados.	

Sunburn

Light sunburn aggregating an area more than 15% of the fruit surface, or badly discolored sunburn aggregating more than an area $\frac{3}{4}$ inch in diameter on avocados weighing 16 oz. or more, or more than $\frac{1}{2}$ inch in diameter on avocados weighing less than 16 oz.

Light sunburn aggregating an area more than 25% of the fruit surface, or badly discolored sunburn aggregating more than an area 1- $\frac{1}{2}$ inches in diameter on avocados weighing 16 oz. or more, or more than 1 inch in diameter on avocados weighing less than 16 oz.

Pulled stem

Any pulled stem on Guatemalan or similar type avocado, or when the exposed stem cavity or surrounding skin is injured or torn on West Indian type avocados.