HAWAII NO. 2 (GRADE B)

Hawaii Department of Agriculture Marketing and Consumer Services Division Commodities Branch

# 54-41-28

HAWAII FANCY (GRADE AA)

## STANDARDS FOR HAWAII-GROWN BANANAS \*

This UNOFFICIAL COPY of standards for bananas, 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 NO. 1 (GRADE A)

Basic Requirements Single variety Mature (1) Not overripe (2) or soft Well formed (3) Well developed (4) Well trimmed (5)	Basic Requirements Single variety Mature (1) Not overripe (2) or soft Fairly well formed (8) Well developed (4) Well trimmed (5)	Basic Requirements Single variety Mature (1) Not overripe (2) or soft Not badly misshapen (9) Fairly well developed (10) Well trimmed (5)		
Cleanness: In addition to the above requirements, bananas classified as HAWAII FANCY, HAWAII GRADE AA, HAWAII GRADE A or HAWAII GRADE B shall be clean (6), and those classified as HAWAII NO. 1 or HAWAII NO. 2 shall be fairly clean (7).				
Free From	Free From	Free From		
Decay (11)	Decay (11)	Decay (11)		
Breakdown	Breakdown	Breakdown		
Split fingers (12)	Split fingers (12)	Split fingers (12)		
Wormholes	Wormholes	Wormholes		
Fingers with broken	Fingers with broken			
pedicel	pedicel			
Blossom-end rot (13)				
Free From Injury (14)	Free From Damage (15)	Free From Serious		
Caused By	Caused by	Damage (16) Caused By		
Russeting	Russeting	Russeting		
Scars	Scars	Scars		
Sunscald	Sunscald	Sunscald		
Bruises	Bruises	Bruises		
Stubs	Stubs	Stubs		
Freckles	Freckles	Freckles		
Other disease	Blossom-end rot	Blossom-end rot		
Insects	Other disease	Other disease		
Mechanical or other	Insects	Insects		
means	Mechanical or other	Mechanical or other		

<sup>\*</sup>Numbers in parentheses following grade terms indicate where such terms are defined under "Definitions."

means

means

Size Requirement
Unless otherwise specified, fingers of Bluefield
(Gros Michel) and similar
varieties shall be not
less than 8 inches long;
other varieties not less
than 7 inches long except
the Apple (Brazilian)
variety, which shall be
not less than 6 inches
long.

Size Requirement
Unless otherwise specified, fingers of Bluefield
(Gros Michel) and similar
varieties shall be not
less than 7 inches long;
other varieties not less
than 6 inches long except
the Apple (Brazilian)
variety, which shall be
not less than 5 inches
long.

Size Requirement
Unless otherwise specified, fingers of Bluefield
(Gros Michel) and similar
varieties shall be not
less than 6 inches long;
other varieties not less
than 5 inches long except
the Apple (Brazilian)
variety, which shall be
not less than 4 inches
long.

<u>Uniformity of Size</u>: Bananas sold as fingers, either bundled or packed in trays, shall not vary more than 1/2 inch in apparent length. In computing percent deviation, each bundle or tray shall represent a sample unit.

Tolerances (count basis)
Defects: Total 10%;
provided not more than
5% damage, including 2%
serious damage and 1%
decay or breakdown.
Off-size: 10%.

Tolerances (count basis)
Defects: Total 10%;
provided not more than
5% serious damage,
including 1% decay or
breakdown.
Off-size: 10%.

Tolerances (count basis)
Defects: Total 10%;
provided not more than
1% decay or breakdown.

Off-size: 10%.

#### BUNCHES

#### HAWAII

### HAWAII NO.

## HAWAII NO. 2

Not less than 70% of the hands (count basis) shall meet the requirements or Hawaii Fancy grade for hands, with the remaining hands meeting the requirements of Hawaii No. 1. In addition, not more than 1/2 of 1% of the fingers may be affected by decay or breakdown, and main stems shall be free from decay or breakdown. Bunch weight shall be not less than 50 pounds for Bluefield (Gros Michel) and similar varieties and not less than 30 pounds for bunches of Apple (Brazilian), Chinese (Cavendish), Lady Finger and similar varieties.

Not less than 70% of hands (count basis) shall meet the requirements of Hawaii No. 1 grade for hands, with the remaining hands meeting the requirements of Hawaii No. 2. In addition, not more than 1/2 of 1% of the fingers may be affected by decay or breakdown, and main stems shall be free from decay or breakdown.

Not less than 85% of the hands (count basis) shall meet the requirements of Hawaii No. 2 grade for hands. In addition, not more than 1% of the fingers may be affected by decay or breakdown, and main stems shall be free from decay or breakdown.

Tolerances (count basis)
Total 10%; provided not
more than 5% failing to
meet Hawaii No. 1 grade
for bunches of bananas.

Tolerances (count basis)
Total 10%; provided not
more than 5% failing to
meet Hawaii No. 2 grade
for bunches of bananas.

Tolerances (count basis)
Total 10%.

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

APPLICATION OF TOLERANCES. Averages for the entire lot, based on examination of representative samples, shall be within the tolerances specified, but the contents of individual containers 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 a container.

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

Wholesale Ouantities - 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. Bananas for export shall at least meet the requirements of Hawaii No. 1 bananas.

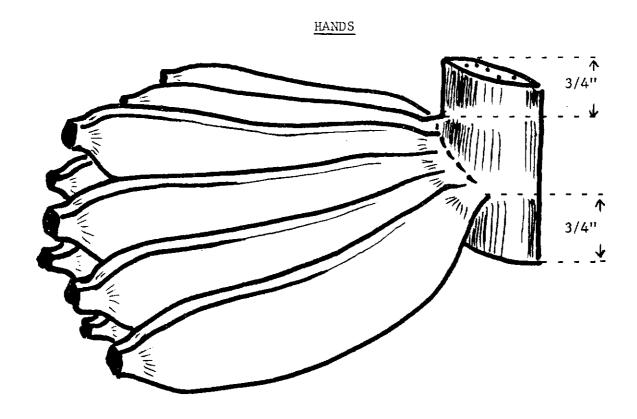
#### DEFINITIONS.

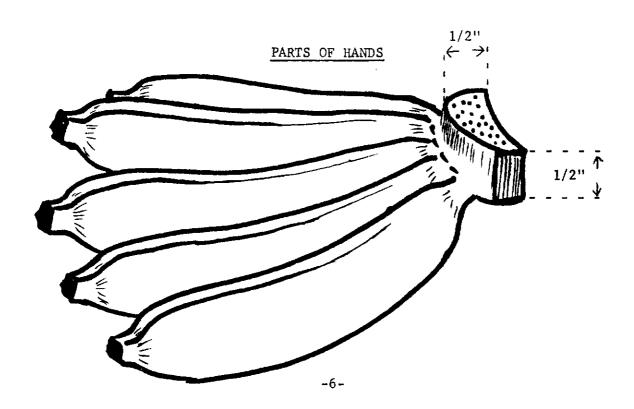
- (1) "Mature" means the banana has reached a stage of growth which will insure a proper completion of the ripening process.
- (2) "Overripe" means dead-ripe with the flesh becoming excessively soft or discolored and past commercial value.
- (3) "Well formed" means the shape of the hand and arrangement of the fingers on the hand are regular, normal and fairly compact for the variety; and the fingers are reasonably uniform in size and not twisted, abnormally curved or otherwise misshapen.
- (4) "Well developed" means all of the fingers are plump and any ridge present is normal for well grown, mature bananas of the variety.
- (5) "Well trimmed" means the pedicel of the finger is cut off smoothly at approximately right angles to the longitudinal axis of the pedicel and is not less than 1/4 inch nor more than 1/2 inch long; or in the case of hands, the portion of the main stalk shall not exceed 3/4 inch from the point of attachment to the pedicel as measured to the highest point of the cut in either direction on the vertical axis; or in the case of parts of hands, that the portion of the main stalk shall not exceed 1/2 inch as measured on the vertical and horizontal axes from the point of attachment to the pedicel. (See drawings on page 6.)

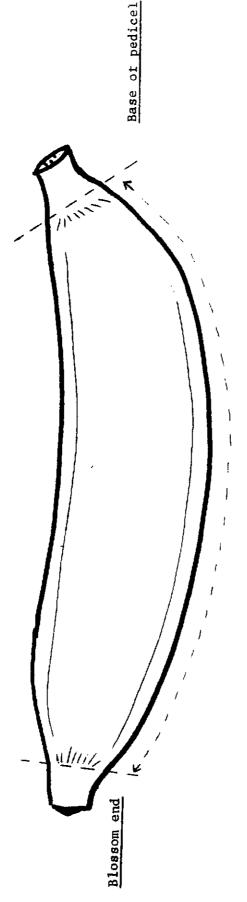
- (6) "Clean" means the fruit is practically free from dirt, staining, spray residue, cobwebs or other foreign matter.
- (7) "Fairly clean" means the hand may be dusty or dull colored, but the appearance of the hand is not materially affected by the presence of staining, spray residue, caked dirt, cobwebs or other foreign matter.
- (8) "Fairly well formed" means the fingers are arranged on the hand in a reasonably regular fashion and not more than 10% of the fingers are twisted or abnormally curved, and none of the fingers are badly twisted or curved.
- (9) "Badly misshapen" means the arrangement of the fingers on the hand is irregular, or more than 15 percent of the fingers are badly curved or twisted
- (10) "Fairly well developed" means the fingers on the hand are not spindly or excessively ridged for the variety.
- (11) "Decay" means any rot (other than blossom-end rot) affecting the fingers, pedicel of the fingers, or any portion of the hand or bunch, except the decay affecting the portion of the main stalk attached to a cut hand of Chinese bananas shall not be scored against the tolerance.
- (12) "Split fingers" means bananas with split skins, usually caused by internal pressure.
- (13) "Blossom-end rot" means the sunken, dry, dark, coarse discolored area at the blossom-end of the finger which may or may not affect the pulp but appreciably affects the appearance of the fruit.
- (14) "Injury" means any specific defect described in Table 1, Classification of Defects; or any 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 bananas.
- (15) "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 bananas.
- (16) "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 the shipping quality of the bananas.

Table 1. Classification of Defects

FACTOR	INJURY	DAMAGE	SERIOUS DAMAGE
			BERTOOS DATAGE
Russeting, scars. sunscald, bruises, freckles or similar blemishes.	Appearance of any finger materially affected; or flesh of any finger is affected; or appearance of more than 30% of fingers slightly affected; or appearance of more than 10% of fingers more than slightly affected. Dark or scaly scar or scars aggregating more than 1/2 inch in diameter are considered as affecting appearance more than slightly.	Appearance of any finger seriously affected; or flesh of any finger is more than slightly affected; or appearance of more than 30% of fingers materially affected. Dark or scaly scar or scars aggregating an area more than 3/4 inch in diameter or freckles and other blemishes affecting appearance more than permitted for scars are considered as materially affecting appearance.	Flesh of any finger materially affected; or appearance of more than 30% of. fingers seriously affected. Dark or scaly scar or scars aggregating an area more than 1-1/4 inches in diameter or freckles and other blemishes affecting appearance more than permitted for scars are considered as seriously affecting appearance.
Bruises	When soft.	When soft.	Soft and more than 2 fingers affected per hand, or soft and more than 1 finger seriously affected.
Stubs	More than 1 finger removed, leaving stub.	More than 2 fingers removed, leaving stubs.	Appearance of hand seriously affected by removal of fingers.
Blossom-end rot		Fairly deep and exceeds 3/4 inch in diameter.	







Outer Curve Measurement

- To obtain the length of a finger, measure along the outside curve from the blossom end to pedicel (where edible pulp ends).
- measure the middle finger of the outer whorl (the back row fingers of a hand). To determine the average finger length of a hand or portions of a hand, 2