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§ 4-41-55

STANDARDS FOR HAWAII-GROWN PLUMS\*

This UNOFFICIAL COPY of standards for plums, 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>          |
| Single variety                     | Single variety                     | Single variety                     |
| Well formed (1)                    | Well formed (1)                    | Not badly misshapen (2)            |
| Mature (3)                         | Mature (3)                         | Mature (3)                         |
| Not overripe, soft<br>or shriveled | Not overripe, soft<br>or shriveled | Not overripe, soft<br>or shriveled |
| <u>Free From</u>                   | <u>Free From</u>                   | <u>Free From</u>                   |
| Decay                              | Decay                              | Decay                              |
| Sunscald (4)                       | Sunscald (4)                       | Sunscald (4)                       |
| Growth cracks                      |                                    |                                    |
| Heat injury                        |                                    |                                    |
| Sunburn                            |                                    |                                    |
| Split pit                          |                                    |                                    |
| Hail marks                         |                                    |                                    |
| <u>Free From Damage (5)</u>        | <u>Free From Damage (5)</u>        | <u>Free From Serious Damage</u>    |
| <u>Caused By</u>                   | <u>Caused By</u>                   | <u>(6) Caused By</u>               |
| Broken skin                        | Heat injury                        | Heat injury                        |
| Drought spots                      | Broken skin                        | Broken skin                        |
| Gum spots                          | Growth cracks                      | Growth cracks                      |
| Russeting                          | Drought spots                      | Drought spots                      |
| Scars                              | Gum spots                          | Gum spots                          |
| Dirt or other foreign<br>material  | Sunburn                            | Sunburn                            |
| Disease                            | Russeting                          | Russeting                          |
| Insects                            | Split pit                          | Split pit                          |
| Mechanical or other means          | Scars                              | Scars                              |
|                                    | Hail marks                         | Hail marks                         |
|                                    | Dirt or other foreign<br>material  | Dirt or other foreign<br>material  |
|                                    | Disease                            | Disease                            |
|                                    | Insects                            | Insects                            |
|                                    | Mechanical or other means          | Mechanical or other means          |

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

Size Requirement  
Not less than 1-3/4  
inches in diameter (7),  
unless otherwise  
specified.

Size Requirement  
Not less than 1-1/2  
inches in diameter (7),  
unless otherwise  
specified.

Size Requirement  
Not less than 1 inch  
in diameter (7), unless  
otherwise specified.

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

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

Tolerances (count basis)  
Defects: Total 10%;  
provided not more than  
5% sunscald or serious  
damage by insects or  
heat injury, included  
therein 1% decay.  
Off-size: 10%

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

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 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. Plums 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.

DEFINITIONS.

(1) "Well formed" means the fruit has the shape characteristic of the variety. Doubles shall not be considered as well formed.

(2) "Badly misshapen" means the fruit is so malformed or rough that the appearance is seriously damaged. Doubles shall be considered as badly misshapen.

(3) "Mature" means the fruit has reached the stage of maturity which will insure a proper completion of the ripening process.

(4) "Sunscald" means the injury caused by the sun in which a softening or collapse of the flesh is apparent.

(5) "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 plums.

(6) "Serious damage" 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 seriously detracts from the appearance, or the edible or shipping quality of the plums.

(7) "Diameter" means the greatest distance through the center of the fruit measured at right angles to a line running from the stem to the blossom end.

Table 1. Classification of Defects

| FACTOR       | DAMAGE  | SERIOUS DAMAGE  |
|--------------|---|---|
| Broken skin  | Unhealed skin breaks, except those caused by pulled stems where the skin is not torn beyond the stem basin. Healed skin breaks shall be handled as scars. | Unhealed skin breaks that are more than 1/8 inch in diameter or depth, except those caused by pulled stems where the skin is not torn beyond the stem basin. Healed skin breaks shall be handled as scars.  |
| Heat injury  | Extensive or not light colored.   | When a softening or dark discoloration of the flesh occurs. Heat injury may cause internal or external discoloration, and may or may not be serious. It should not be confused with sunscald which causes softening or collapse of the tissue, and which is always classed as serious damage. |
| Growth crack | More than one external crack on a fruit; deep; not well healed; or more than 3/8 inch in length. Internal growth cracks are not considered a defect.      | External and more than 3/16 inch in depth or 1/2 inch in length. Internal growth cracks are not considered a defect.  |
| Sunburn      | Normal color of fruit materially changed or the skin is blistered or cracked.   | Fruit is decidedly flattened; or the skin is seriously blistered, cracked or discolored.  |

|              |   |  |
|--------------|---|--|
| Drought spot | Aggregating an area more than 1/4 inch in diameter.   | Aggregating an area more than 1/2 inch in diameter.  |
| Gum spot     | External and aggregating an area more than 1/4 inch in diameter. Internal gum spots are not considered a defect.  | External and aggregating an area more than 1/2 inch in diameter. Internal gum spots are not considered a defect.   |
| Russeting    | Not excessively rough but aggregating more than 10% of surface; or excessively rough and aggregating an area more than 1/4 inch in diameter.  | Not excessively rough but aggregating more than 1/3 of surface; or excessively rough and aggregating an area more than 1/2 inch in diameter.                           |
| Split pit    | Causing a readily apparent crack at the stem end; or affecting shape to the extent that the fruit is not well formed.   | Causing a crack at the stem more than 3/16 inch in length, including any part covered by the stem; or affecting shape to the extent that the fruit is badly misshapen. |
| Scars        | Dark, rough or depressed and aggregating an area more than 1/4 inch in diameter; fairly smooth, superficial (including fairly light discolorations such as that caused by handling or packing or by plums rubbing against one another while on the tree) and aggregating an area more than 1/2 inch in diameter; or twig and limb scratches that are not well healed or aggregate more than 1 inch in length. | More than 3/16 inch in depth; or very dark or excessively rough and aggregating an area more than 1/2 inch in diameter.  |
| Hail marks   | Not shallow or superficial; aggregating an area more than 3/8 inch in diameter; or when the skin has been broken.   | More than 3/16 inch in depth; or aggregating an area more than 1/2 inch in diameter.   |