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FRESH FRUITS, VEGETABLES, NUTS AND SPECIALTY PRODUCTS: PHOTOS, COLOR GUIDES, AND COLOR COMPARATORS

Almonds

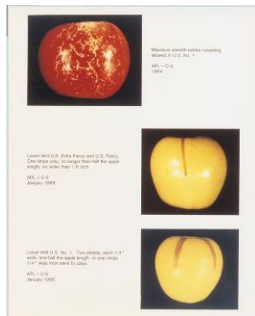


ALM-1-IDENT
FEBRUARY 1991
(Previous June 1975)

ALM-1-IDENT (February 1991)

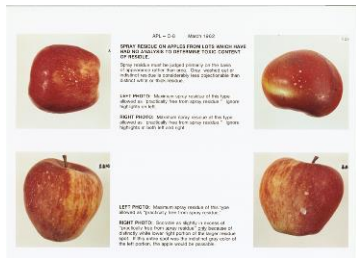
ID only: Brown Spot, Gum and Shriveling, and Insect and Skin Blemishes.

Apples



APL-C-4 (1964)/APL-C-6 (January 1966)

First photo: Maximum smooth netlike russeting allowed in U.S. No. 1. Second photo: Lower limit U.S. Extra and U.S. Extra Fancy and U.S. Fancy. One stripe only; no longer than half the apple length; no wider than 1/8 inch. Third photo: Lower limit U.S. No. 1. Two stripes, each 1/4" wide, one-half the apple length, or one stripe 1/4" wide from stem to calyx.



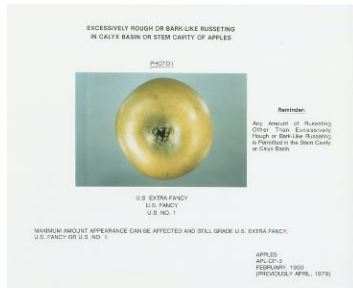
APL-C-8 (March 1962)

Spray Residue photo illustrating varying degrees of spray residue. (XA-1013, XA-1016, XA-1021, and XA-1022)



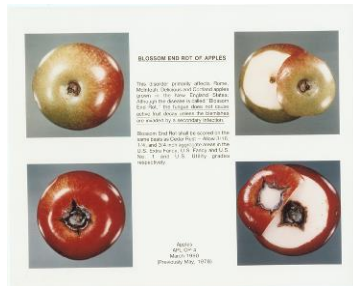
APL-CP-2 (May 1975)

Sunken discolored areas around lenticels.



APL-CP-3 (February 1990)

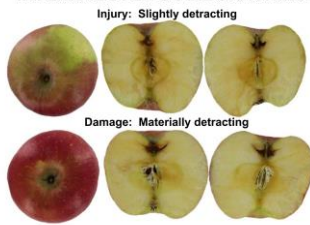
Excessively rough or bark-like russeting in calyx basin or stem cavity of apples - U.S. Extra Fancy, U.S. Fancy, and U.S. No. 1.



APL-CP-4 (March 1990)

Blossom End Rot of apples.

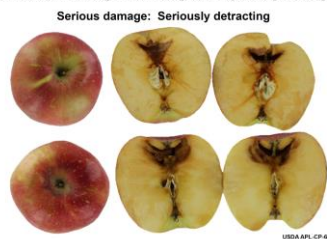
INTERNAL STEM BOWL CRACKING



APL-CP-5 (July 2015)

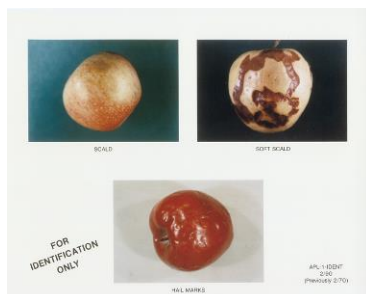
Internal Stem Bowl Cracking
Scoring guide for injury and damage.

INTERNAL STEM BOWL CRACKING



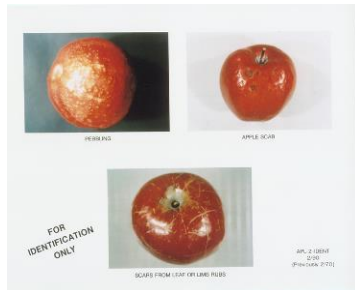
APL-CP-6 (July 2015)

Internal Stem Bowl Cracking
Scoring guide for serious damage.



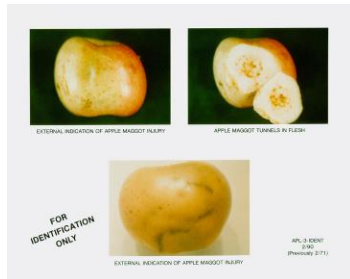
APL-1-IDENT (February 1990)

ID only: Scald; Soft Scald; Hail Marks.



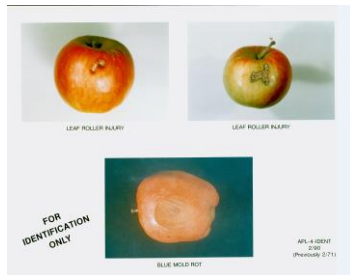
APL-2-IDENT (February 1990)

ID only: Pebbling; Scab; Scars.



APL-3-IDENT (February 1990)

ID only: Apple Maggot Injury.



APL-4-IDENT (February 1990)

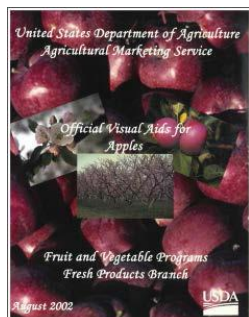
ID only: Leaf Roller Injury; Blue Mold Rot.



Color Guide: Golden Delicious Ground Color (1962)

Set of 8 colors to assist in describing Golden Delicious ground color Use the eight colors only at applicant's request.

(Not available)



Color Guide: Official Visual Aids for Apples (August 2002)

Set includes the following: AP-CC-1 A through E Minimum good shade of striped red color, minimum compensating color, and not to be considered as a color for (A) Red Delicious, Empire and Red Rome; (B) Winesap and Rome; (C) Delicious; (D) McIntosh and Cortland; and (E) Jonathan, Idared, Stayman and York.

Asparagus

The following asparagus photos are included in the Asparagus Shipping Point and Market Inspection Instructions.



Closed and Slightly Spread Tips. Allowed in U.S. No. 1.
Asparagus, Photo No. 6
November 1994
(Previously No. 5, to date)

No. 6 (November 1994)

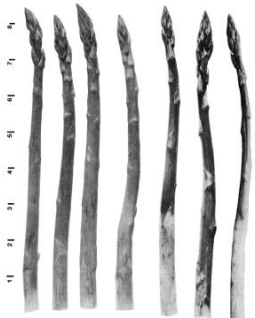
Closed and slightly spread tips. Allowed in U.S. No. 1.



Spreading Tips. Not U.S. No. 1.
Asparagus, Photo No. 7
November 1994
(Previously No. 7, to date)

No. 7 (November 1994)

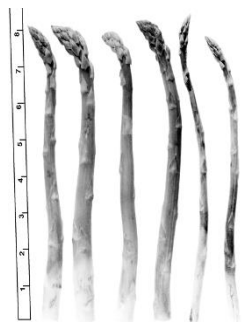
Spreading tips. Not U.S. No. 1.



10. FAIRLY STRAIGHT ASPARAGUS STALKS. PERMITTED IN U.S. NO. 1

No. 10 (November 1994)

Fairly straight asparagus stalks. Permitted in U.S. No. 1.



Not Badly Misshapen Asparagus Stalks. Permitted in U.S. No. 2.
Asparagus, Photo No. 11
November 1994
(Previously No. 11, to date)

No. 11 (November 1994)

Not badly misshapen asparagus stalks. Permitted in U.S. No. 2.

ASPARAGUS - SPREADING TIPS



A - U.S. No. 1 B - U.S. No. 1, Lower Limit
Asparagus, Photo No. 12
February 1991
(Previously No. 12, no date)

No. 12 (February 1991)

Fresh vegetables for market:
A: Spreading Tips – U.S. No.
Fresh vegetables for processing:
B: Spreading Tips – Lower U.S. No. 1.

ASPARAGUS - SPREADING TIPS



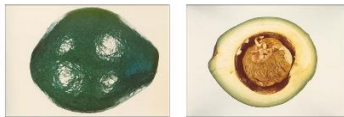
U.S. No. 2 - Lower Limit. Damaged by Spreading, But Not Seriously Damaged.
Asparagus, Photo No. 13
February 1991
(Previously No. 13, no date)

No. 13 (February 1991)

Fresh vegetables for market and for processing:
Spreading Tips: U.S. No. 2, lower limit. Damaged by spreading,
but not seriously damaged.

Avocados

BOOTH 1



FOR IDENTIFICATION ONLY
FLA. AVO-1-IDENT
7/76

Hybrid. Fruit round with slight neck, skin dark green, woody and moderately pebbled. Large seed with yellow flesh. Beginning of approximate shipping date – November 23.

Booth 1 (July 1976)

ID only describing varietal characteristics.

BOOTH 7



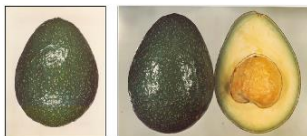
FOR IDENTIFICATION ONLY

A seedling of unknown Guatemalan parents. Round to obovate in shape and of medium size (10 - 20 oz.) Skin is glossy, bright green, slightly pebbled, thick and woody. Has a light yellow flesh and medium sized seed.

Booth 7 (July 1976)

ID only describing varietal characteristics.

BOOTH 8



FOR IDENTIFICATION ONLY

Seedling of unknown Guatemalan parents. Fruit oblong to ovate, small to medium large (3 to 18 oz.). Skin rather dull, medium green with numerous small white spots, slightly roughened, rather thick and woody. Flesh light cream color. Medium size seed which is light in seed cavity. One of eight members of the Booth family and is the most popular. Beginning of approximate shipping date – August 18.

Booth 8 (July 1976)

ID only describing varietal characteristics.

CATALINA



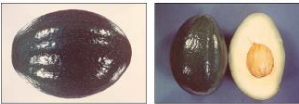
Catalina (July 1976)

ID only describing varietal characteristics.

FOR IDENTIFICATION ONLY

Hybrid, skin light green, glossy and smooth. Has an obovoid and elongated shape. Flesh is light yellow in color. Large seed cavity which is pointed. Seed is loose in cavity. Beginning of approximate shipping date - September 15.

CHOQUETTE



Choquette (July 1976)

ID only describing varietal characteristics.

FOR IDENTIFICATION ONLY
FLA. AVO-1-IDENT
7/76

Hybrid, fruit large, oval, somewhat flattened obliquely toward apex on one side. Skin nearly smooth, glossy, dark green to light green and shiny on one side. Flesh green, seed medium size light to very light in cavity. Beginning of approximate shipping date - (October 14).

DR. DUPUIS #2



Dr. Dupuis # 2 (July 1976)

ID only describing varietal characteristics.

FOR IDENTIFICATION ONLY
FLA. AVO-1-IDENT
7/76

Waxed skin, fruit oblong to oval. Skin pale green, thin and smooth. Seed large and rough. Flesh dark yellow. Beginning of approximate shipping date - (June 21).

HALL



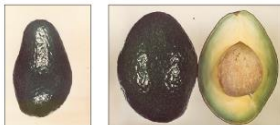
Hall (July 1976)

ID only describing varietal characteristics.

FOR IDENTIFICATION ONLY

Hybrid, percentage of unknown varieties. Fruit pear shaped and large (20 to 26 oz.). Skin nearly smooth, dark green, very thick and waxy. Flesh deep yellow color. Seed medium large and light in cavity. Beginning of approximate shipping date - September 6.

HICKSON



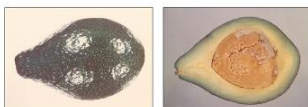
Hickson (July 1976)

ID only describing varietal characteristics.

FOR IDENTIFICATION ONLY

Hybrid - unknown parentage. Fruit is medium to small and obovoid in shape. Skin is green, slightly rough, thick and shiny. Flesh is light yellow with a small seed which is light in cavity. Beginning of approximate shipping date - September 23.

LULA



Lula (July 1976)

ID only describing varietal characteristics.

FOR IDENTIFICATION ONLY
FLA. AVO-1-IDENT
7/76

Hybrid, fruit peariform or occasionally necked with nearly a smooth skin and light green color. Flesh pale to greenish yellow, large seed light in cavity. Beginning of approximate shipping date - (October 15).

MONROE



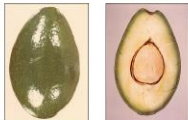
FOR IDENTIFICATION ONLY
FLA. AVO-1-IDENT
7/76

Hybrid fruit large, elongated, flattened obliquely toward apex on one side. Skin glossy dark green, pebbled, moderately thin and pliable. Flesh light yellow. Seed medium size and light in cavity. Beginning of approximate shipping date = (November 15).

Monroe (July 1976)

ID only describing varietal characteristics.

NADIR



FOR IDENTIFICATION ONLY
FLA. AVO-1-IDENT
7/76

West Indian. Fruit oval to medium size, pear shaped with little neck. Skin thin, green and pebbled. Seed small to medium and loose in cavity. Beginning of approximate shipping date = (July 5).

Nadir (July 1976)

ID only describing varietal characteristics.

POLLOCK



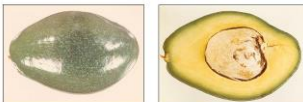
FOR IDENTIFICATION ONLY
FLA. AVO-1-IDENT
7/76

West Indian. Fruit oblong to pearlike and large. Skin smooth, light green and glossy. Flesh a rich yellow, blending with green near the skin. Seed large and loose in cavity. Beginning of approximate shipping date = (July 5).

Pollock (July 1976)

ID only describing varietal characteristics.

SIMMONDS



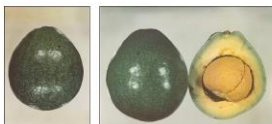
FOR IDENTIFICATION ONLY
FLA. AVO-1-IDENT
7/76

West Indian. Fruit oblong to oval, large rough seed. Skin light green, smooth and thin. Flesh dark yellow. Beginning of approximate shipping date = (July 5).

Simmonds (July 1976)

ID only describing varietal characteristics.

TRAPP



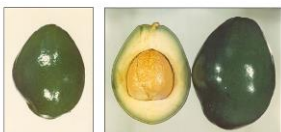
FOR IDENTIFICATION ONLY

West Indian type fruit, gummy shaped, skin medium to dark green, thin and smooth. Flesh yellowish green. Large seed, loose in cavity. Beginning of approximate shipping date = August 8.

Trapp (July 1976)

ID only describing varietal characteristics.

WALDIN



FOR IDENTIFICATION ONLY

West Indian type fruit, oblong to oval, with a characteristic flattening on one side of blossom end, medium to large size (1 1/4 to 1 3/4 inches). Skin smooth, pale green to greenish yellow and ridged. Flesh pale to greenish yellow. Seed medium to large and fairly tight in cavity. Approximate shipping date = August 11.

Waldin (July 1976)

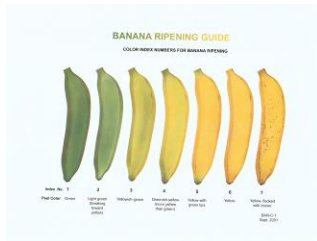
ID only describing varietal characteristics.



Florida Avocado Varieties Binder (2004)
Photo guide describing over 40 Florida avocado varieties.

(Not available)

Bananas



BAN-C-1 Ripening Guide (September 2001)
Color indexes for banana ripening.

Beans, Lima

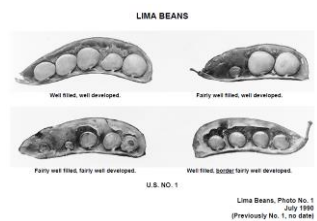


Photo No. 1 (July 1990)
U.S. No. 1: Filling of pods and development of seeds.

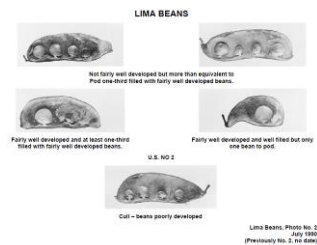


Photo No. 2 (July 1990)
U.S. No. 2 and cull: Filling of pods and development of seeds.



PL-1 (1953)
Fresh vegetables for processing:
Lightest shape of green permitted for cotyledons of U.S. No. 1
Fordhook type unblanched beans.

(Not available)



PL-2 (1957)

Fresh vegetables for processing:
Lightest shade of green permitted for cotyledons of U.S. No. 1
Thorough variety of unblanched beans.

(Not available)

Beans, Snap



Photo No. 1 (July 1990)

Shape for U.S. Fancy.

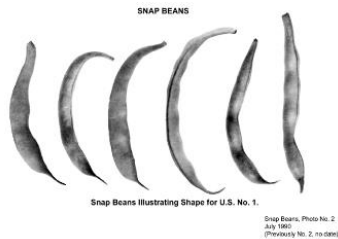


Photo No. 2 (July 1990)

Shape for U.S. No. 1.

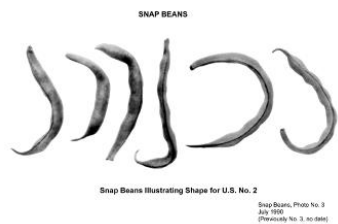


Photo No. 3 (July 1990)

Shape for U.S. No. 2.

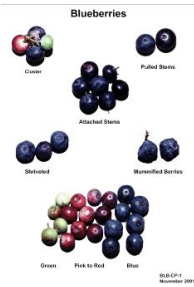


Color Comparator (laminated photo)

Fresh vegetables for processing:
Scar on whole bean: Lower limit for U.S. No 1 and Lower limit for U.S. No. 2.

(Not available)

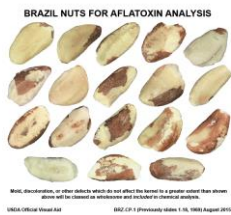
Blueberries



BLB-CP-1 (December 2001)

This blueberry photo features the following: Cluster; Puffed Stems; Attached Stems; Shriveled; Mummified Berries; Green, Pink to Red; Blue.

Brazil Nuts



BRZ-CP-1 (August 2015)

Previously slides 1-18, 1969.

The Brazil nuts shown are classified as wholesome and are included in chemical analysis for aflatoxin.



BRZ-CP-2 (August 2015)

Previously slides 19-32, 1969.

The Brazil nuts shown are classified as objectionable and are not included in chemical analysis for aflatoxin.

Broccoli, Italian Sprouting



Photo No. 1 (August 1990)

Fairly Compact.



Photo No. 2 (August 1990)

Fairly Compact.



Photo No. 3 (August 1990)
Compact.



Photo No. 4 (August 1990)
Not Fairly Compact.



Photo No. 5 (August 1990)
Not Fairly Compact.



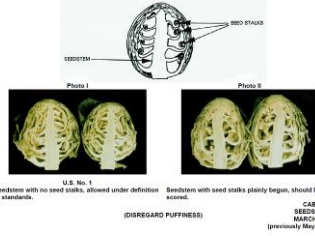
Photo No. 6 (August 1990)
Compact.



BRO-1-IDENT (April 1997)
ID only: There are no color or varietal requirements; therefore, this variation in color is not a defect.

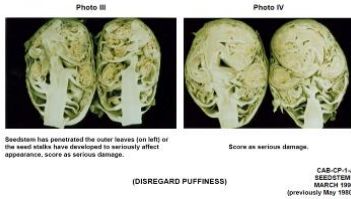
Cabbage

Scoring Guide for Seedstems
 The Standard states that U.S. No. 1 shall consist of heads which are free from seedstems, and, seedstems are defined as heads which have seed stalks showing or in which the formation of seed stalk has plainly begun.



CAB-CP-1 (March 1990)
 Seedstems: U.S. No. 1 and damage.

The handbook states that heads which have noticeable bumps or bulges caused by seedstems should be scored, and, heads in which a seed stalk penetrates the outer leaves should be scored as serious damage.



CAB-CP-1-A (March 1990)
 Seedstems: Serious damage.



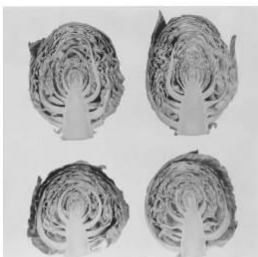
WELL TRIMMED AND POORLY TRIMMED HEADS
 Cabbage, Photo No. 1
 August 1990
 (Previously No. 1, no date)

Photo No. 1 (August 1990)
 Well-Trimmed and Poorly-Trimmed heads.



STEMS PROPERLY AND IMPROPERLY TRIMMED.
 Cabbage, Photo No. 2
 August 1990
 (Previously No. 2, no date)

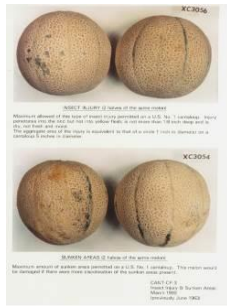
Photo No. 2 (August 1990)
 Stem properly and improperly trimmed



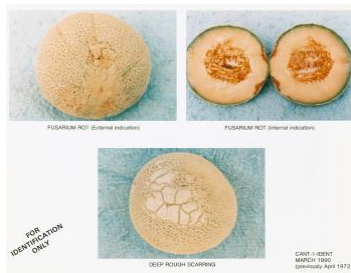
BOTH HEADS ILLUSTRATE LOWER LIMIT OF REASONABLE SOLIDITY FOR SOUTHERN DOMESTIC TYPE WHICH SHALL BE AT LEAST FAIRLY FIRM FOR U.S. NO. 1 GRADE.

Cabbage, Photo No. 3
 August 1990
 (Previously No. 3, no date)

Photo No. 3 (August 1990)
 U.S. No. 1, lower limit of reasonable solidity for southern domestic type.



CANT-CP-3 (March 1990)
Insect Injury; Sunken Areas.



CANT-1-IDENT (March 1990)
ID only: Fusarium Rot; Scarring.



CANT-2-IDENT (March 1990)
ID only: Sunburn; Sunscald; Scarring.

Carrots, Bunched

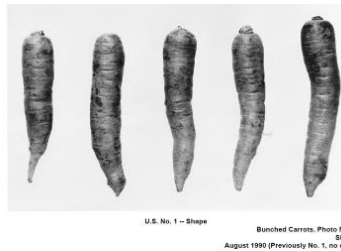


Photo No. 1 (August 1990)
Shape: U.S. No. 1.

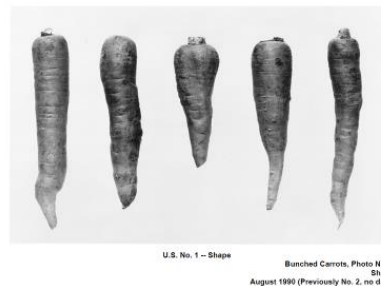


Photo No. 2 (August 1990)
Shape: U.S. No. 1.



Not U.S. No. 1 - Shape
Bunched Carrots, Photo No. 3
Shape
August 1990 (Previously No. 3, no date)

Photo No. 3 (August 1990)

Shape: Not U.S. No. 1.

Carrots, Topped



Well formed - Not lower limit
U.S. Extra No. 1



Well formed - Lower limit
U.S. Extra No. 1



Fairly well formed - Not lower limit
U.S. No. 1



Fairly well formed - Lower limit
U.S. No. 1

C-1
Shape & Smoothness
August 1990 (Previously November 1985)

C-1 (August 1990)

Four sets of carrots showing shape and smoothness.



Not fairly well formed
U.S. No. 2



Fairly smooth - Not lower limit
U.S. Extra No. 1 and U.S. No. 1



Fairly smooth - Lower limit
U.S. Extra No. 1 and U.S. No. 1



Not fairly smooth
U.S. No. 2

C-1-A
Shape & Smoothness
August 1990 (Previously November 1985)

C-1-A (August 1990)

Four sets of carrots showing shape and smoothness.

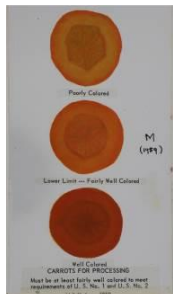


Maximum allowed U.S. No. 1 - chipped or broken crowns.

CAR-CP-2
Chipped or Broken Crowns
March 1991
(Previously January 1979)

CAR-CP-2 (March 1991)

Chipped or Broken Crowns: U.S. No. 1.



Poorly Colored

M
(1979)

Lower Limit - Fairly Well Colored

Well Colored

CAR-CP-1
CARRIETS FOR PROCESSING
Must be at least fairly well colored to meet
requirements of U.S. No. 1 and U.S. No. 2
U.S. No. 1990

PL-1 (1950)

Fresh vegetables for processing:
Carrot Color Comparator showing cross section for Poorly Colored,
Fairly Well Colored, and Well Colored.

(Not available)

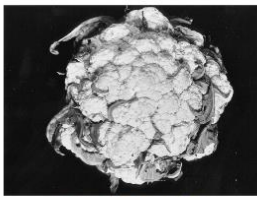


PL-2 (1959)

Fresh vegetables for processing:
Carrot Color Comparator showing cross section for Fairly Well Colored.

(Not available)

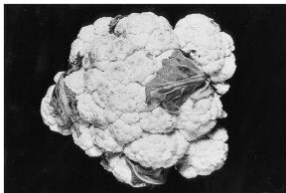
Cauliflower



DAMAGED BY ENLARGED BRACTS. NOT U.S. NO. 1.
Cauliflower, Photo No. 3
September 1990
(Previously No. 3, no date)

Photo No. 3 (September 1990)

Damaged by Enlarged Bracts. Not U.S. No. 1.



ENLARGED BRACTS. GRADE U.S. NO. 1.
Cauliflower, Photo No. 4
September 1990
(Previously No. 4, no date)

Photo No. 4 (September 1990)

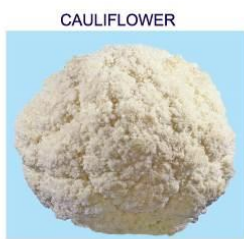
Enlarged Bracts. U.S. No. 1.



ENLARGED BRACTS. GRADE U.S. NO. 1.
Cauliflower, Photo No. 5
September 1990
(Previously No. 5, no date)

Photo No. 5 (September 1990)

Enlarged Bracts. U.S. No. 1.



CAU-IDENT-6 (July 2008)

ID only: Fuzziness.

Celery

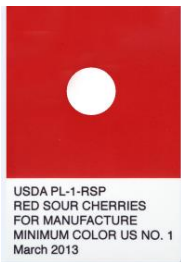


CEL-1-IDENT (July 1992)
ID only: Seedstem and Sucker.



CEL-2-IDENT (July 1992)
ID only: Seedstem (cut).

Cherries, Red Sour



PL-1-RSP Red Sour Cherries for Manufacture (March 2013)
Red Sour Cherry Color Comparator for minimum color U.S. No. 1.

Cherries, Sweet



CHR-CP-2 (April 1990)
Pitting.



CHR-CP-3 (April 1990)
Pulled Stems, Cracks, Insect, and Scars.



CHR-CP-3-A (April 1990)
Scars.

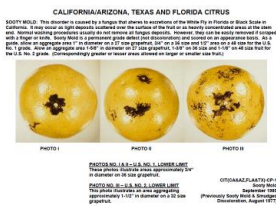


CHR-1-IDENT (March 1990)
ID only: Scars.

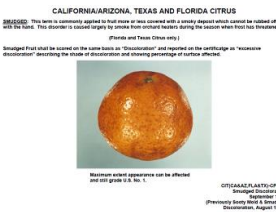


PL-1 (July 2012)
Sweet Cherry Color Comparator for minimum color for Bings and other similar varieties.

Citrus (also see Grapefruit, Lemons, Limes, and Oranges)



CIT-(CA&AZ,FLA&TX)-CP-1 (September 1989)
Sooty Mold.



CIT-(CA&AZ,FLA&TX)-CP-1-A (September 1989)
Smudged Discoloration.



CIT-(FL)-L-1 (February 1973)
Loose leaf binder containing 75 pages of lithograph photos for identification and classification of various defects.
(Not available)

Corn, Sweet



COR-1-IDENT (September 2002)

ID only: Sweet Corn Auxiliary Ears.

Cranberries



CRB-CC-1
JANUARY 1999

CRB-CC-1 (January 1999)

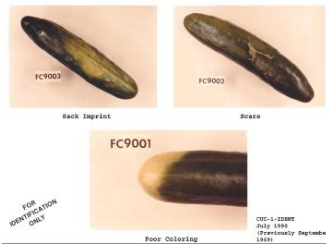
Lower limit of "Fairly Uniform in Color"
Do not use for minimum color.

Cucumbers



CUC-CP-1 (March 1990)

Scars and Sunscald.



CUC-1-IDENT (July 1990)

ID only: Poor Coloring, Scars, and Sack Imprint.



CC-1 (August 2011)

Cucumber Color Comparator for Medium green.

Eggplant



C-1 (March 1991)

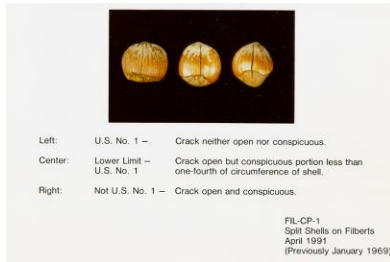
Scarring. Fruit at left and center are lower limit U.S. No. 1. Fruit at right is U.S. No. 2.



C-2 (July 1990)

Green Color. Lower limit U.S. No. 1. Maximum extent which appearance may be affected by green color.

Filberts / Hazelnuts



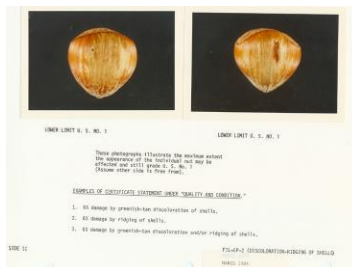
FIL-CP-1 (April 1991)

Split Shells.



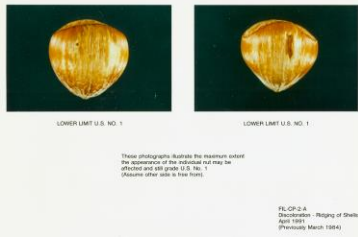
FIL-CP-2 Photo 1 (April 1991)

Shell Discoloration and Ridging.



FIL-CP-2 Photo 2 (April 1991)

Shell Discoloration and Ridging.



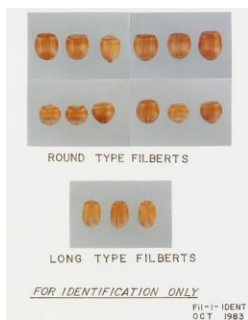
FIL-CP-2A (April 1991)
Shell Discoloration and Ridging.



FIL-CP-3 (March 1993)
Shriveling.



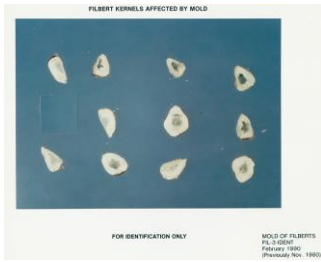
FIL-CP-4 (March 1993)
Shape.



FIL-1-IDENT (October 1983)
ID only: Long type and round type filberts.



FIL-2-IDENT (February 1990, previously November 1980)
ID only: Decay on filberts.



FIL-3-IDENT (February 1990, previously November 1980)
ID only: Mold on filberts.



FIL-4 IDENT (February 1990, previously November 1980)
ID only: Rancidity of filberts.

Ginseng



IDENT-1 (May 2012)
ID only: Texture.



CC-1 (January 2007)
External Color.

Grapefruit



PL-1 (1949)
Scar Colors: Light, Fairly Light, and Dark.
Applicable to CA and AZ grapefruit.

(Not available)



PL-2 (1956)
Lettuce Color Comparator for lower limit for color in which yellow predominates over green. Applicable to FL and TX grapefruit.

(Not available)

Grapes

Emperor Grapes Illustrating Dark Red and Very Dark Red Color
(U.S. Standards for Table Grapes, and for Sawdust Pack Grapes, European or Vintner type)



A. Dark Red Color
B. Very Dark Red Color
 Both varieties meet requirements of their colored and reasonably well colored, but should be considered "borderline" account appearance approximately equal by very dark berries, but in presence of a few very dark berries which do not appreciably figure appearance of the bunch.
 Not meet colored or reasonably well colored account appearance approximately equal by very dark berries, but in presence of a few very dark berries which do not appreciably figure appearance of the bunch.
 Grapes, C-1
 Color
 April 1990 (Previously C-1, no date)

C-1 (April 1990)

Dark Red and Very Dark Red Color on Emperor Grapes (Table Grapes and Sawdust Pack Grapes).

Emperor Grapes Illustrating Light Red and Dark Red Color
(U.S. Standards for Table Grapes, and for Sawdust Pack Grapes, European or Vintner type)

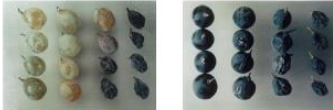


A. Light Red Color
B. Dark Red Color
 Both varieties meet requirements of their colored but are not "borderline". They are shown for comparison with bunches in Table Grape photograph C-1.
 Grapes, C-2
 Color
 April 1990 (Previously C-2, no date)

C-2 (April 1990)

Light Red and Dark Red Color on Emperor Grapes (Table Grapes and Sawdust Pack Grapes).

ILLUSTRATIONS OF STAGES OF RAISING IN MUSCAT (and other white or green varieties) and ZINFANDEL (and other black varieties). The illustrations are also given as a guide with other European type varieties. The berries in each of the four vertical rows from left to right in each illustration are designated as follows:



Row No. 1. NORMAL
 Row No. 2. WILTED - Each berry is equivalent to 1 NORMAL berry (no appreciable loss of moisture). Muscats may show color change but not distinctly wrinkled. Sulfur berries are close to the beginning of raisining.
 Row No. 3. RAISING - 2 to 3 berries are equivalent to 1 NORMAL berry depending on stage of raisining.
 Row No. 4. RAISING - 4 to 5 berries are equivalent to 1 NORMAL berry depending on moisture remaining.
 NOTE: Bottom raisining and top raisining berries illustrate the difficulty of distinguishing between these two stages. If a drop of water can be squeezed out and will drop off the berry it is "raisining". If there is too little juice to do this, the berry is "withered".
 Grapes, C-2
 Color
 April 1990 (Previously C-2, no date)

C-3 (April 1990)

Stages of Raisining in Muscat (and other white or green varieties) and Zinfandel (and other black varieties).

Indented Blossom End



U.S. NO. 1 Table - Maximum allowed of indentation of individual berries.

GRP-IDENT-1
 May 2006

GRP-IDENT-1 (May 2006)

ID only: Indented Blossom End. U.S. No. 1 Table - Maximum allowed for indentation of individual berry.

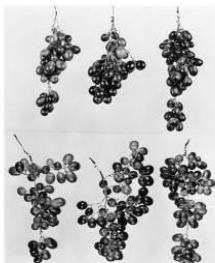


TABLE GRAPES, STRUCTURE OF BUNCHES - EMPEROR
 All bunches are straggly. Bunch No. 2 is just below the requirement for U.S. No. 1 Grade.
 Upper row, bunches photographed hanging; lower row, same bunches spread out on flat surface.
 Grapes, Photo No. 1
 Structure of Bunches
 April 1990 (Previously No. 1, no date)

Photo No. 1 (April 1990)

Structure of Bunches on Table Grapes. Photo shows Emperor Grapes.

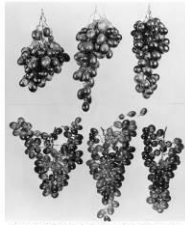
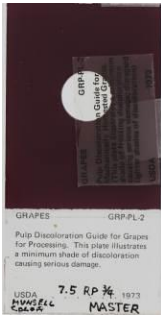


Photo No. 2 (April 1990)
Structures of Bunches on Table Grapes.
Photo shows Emperor Grapes.

TABLE GRAPES, STRUCTURE OF BUNCHES - EMPEROR
Nos. 4 and 5: Not arranged, not fairly well filled. (No. 4 not fairly well filled
account upper berries)
No. 6: Minimum fairly well filled
(Upper row, bunches photographed hanging; lower row, same bunches spread
out on flat surface)

Grapes, Photo No. 2
Structures of Bunches
April 1990 (Previously No. 2, no date)



GRP-PL-2 (1973)
Fresh fruit for processing:
Grape Color Comparator for minimum shade of pulp discoloration
causing serious damage.

(Not available)

Kiwifruit



WELL FORMED



WELL FORMED

KWI-CP-2
FORM
JUNE 1990 (Previously 1988)

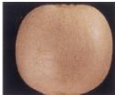
KWI-CP-2 (June 1990)
Well Formed.



FAIRLY WELL FORMED (SIDE VIEW)



FAIRLY WELL FORMED (END VIEW)



FAIRLY WELL FORMED (SIDE VIEW)



FAIRLY WELL FORMED (END VIEW)

KWI-CP-3
FORM
JUNE 1990 (Previously 1988)

KWI-CP-3 (June 1990)
Fairly Well Formed.



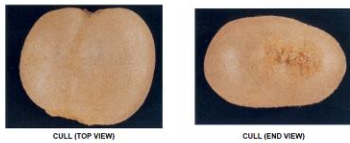
FAIRLY WELL FORMED (SIDE VIEW)



FAIRLY WELL FORMED (END VIEW)

KWI-CP-3-A
FORM
JUNE 1990 (Previously 1988)

KWI-CP-3-A (June 1990)
Fairly Well Formed.



KWI-CP-4 (June 1990)

Form: Cull.

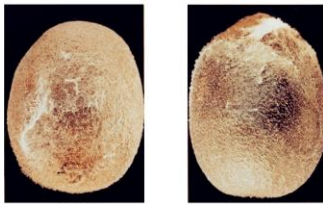
KWI-CP-4
FORM
JUNE 1990 (Previously 1982, PAGE 1)



KWI-CP-4-A (June 1990)

Form: Cull.

KWI-CP-4-A
FORM
JUNE 1990 (Previously 1982, PAGE 2)



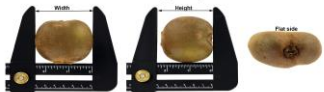
KWI-CP-5 (June 1990)

Mold: U.S. No. 1 and U.S. No. 2.

KWI-CP-5
MOLD
JUNE 1990 (Previously August 1982)



When the kiwifruit has a flat side as shown on the top right, the width cannot exceed the height. Since width does not exceed the height, this fruit is considered "Not badly misshapen" and meets U.S. No. 2.



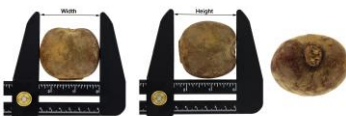
When the kiwifruit has a flat side as shown on the bottom right, the width cannot exceed the height. Since width does exceed the height, this fruit is considered "Badly misshapen" and is a cull.

USDA Visual Aid KWI-CP-6 Jan 2017

KWI-CP-6 (January 2017)

Width Versus Height on Flat Kiwifruit.

Width Versus Height on Round or Oval Shaped Kiwifruit



When the kiwifruit does not have a flat side as shown on the right, disregard width and height. This fruit is considered "Fairly well formed" and meets U.S. No. 1.

U.S.D.A. Visual Aid KWI-CP-7 Jan 2017

KWI-CP-7 (January 2017)

Width Versus Height on Round or Oval Shaped Kiwifruit.



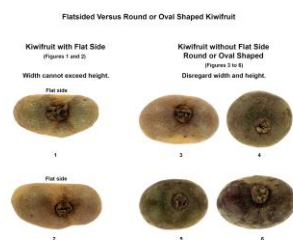
DISCOLORATION (caused by water staining)

FOR IDENTIFICATION ONLY

KWI-IDENT
DISCOLORATION BY WATER STAINING
JUNE 1990 (Previously October 1986)

KWI-1-IDENT (June 1990)

ID only: Discoloration by Water Staining.



Flatsided Versus Round or Oval Shaped Kiwifruit

Kiwifruit with Flat Side
(Figures 1 and 3)

Width cannot exceed height.

Flat side

1

Kiwifruit without Flat Side
Round or Oval Shaped
(Figures 2 to 6)

Diameter width and height.

Flat side

2

5

6

USDA Visual Aid KWI-IDENT 2 Jan 2017

KWI-IDENT-2 (January 2017)

Flatsided Versus Round or Oval Shaped Kiwifruit.

Lemons



PL-1

Lemon Color Comparator for Moderately Well Colored. U.S. No. 1 Export, lower limit.

(Not available)



Scar Color Guide (1964)

(Not available)

SPECK-TYPE MELANOSE OF LEMONS

Consider speck-type melanose on the basis of the appearance of the individual lemon.



U.S. No. 1

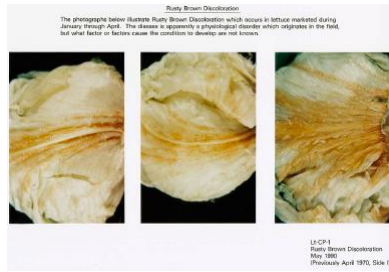
Maximum amount allowed - Other side affected to the same degree by speck-type melanose.

LEMONS-MELANOSE
LEM-CP-1
JUNE 1979

LEM-CP-1 (June 1979)

Speck Type Melanose.

Lettuce / Romaine



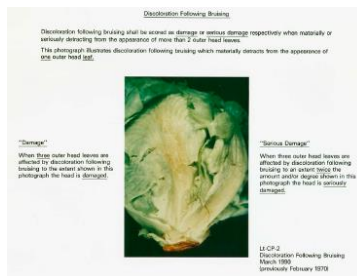
LT-CP-1 (May 1990)

Rusty Brown Discoloration on iceberg lettuce.



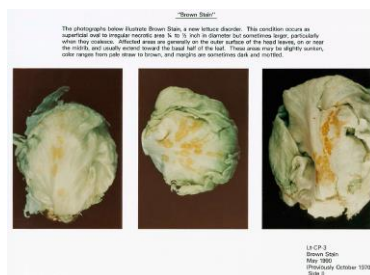
LT-CP-1-A (May 1990)

Rusty Brown Discoloration on iceberg lettuce.



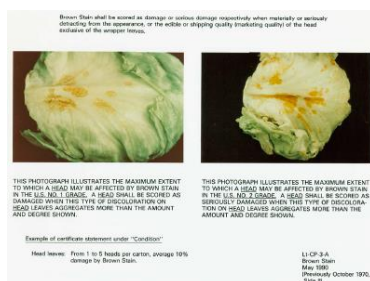
LT-CP-2 (March 1990)

Discoloration Following Bruising.



LT-CP-3 (May 1990, previously October 1970)

Brown Stain.



LT-CP-3-A (May 1990, previously October 1970)

Brown Stain.



RUSSET SPOTTING

This term is given to describe similar appearing defects which can be caused by many factors. These spots may be few in number initially but can rapidly multiply in just a few hours.

LET-IDENT-1
April 2003

LET-IDENT-1 (April 2003)

ID only: Russet Spotting.

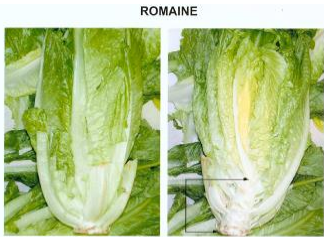


Downy Mildew

LET-IDENT-2
April 2003

LET-IDENT-2 (April 2003)

ID only: Downy Mildew.



ROMAINE

Measure seedstem from base of stem to top of seedstem.

ROM-IDENT-1
SEPTEMBER 2001

ROM-IDENT-1 (September 2001)

ID only: Seedstems.



Light Green

Lettuce Color Comparator for minimum shade of Green Color which must be present on at least 1/2 of the exterior surface of a U.S. Fancy or U.S. No. 1 head (exclusive of wrapper leaves).

(Not available)



LT-CC-1 (August 2013)

Lettuce Color Comparator for minimum Light Buff Color for scoring Tipburn.

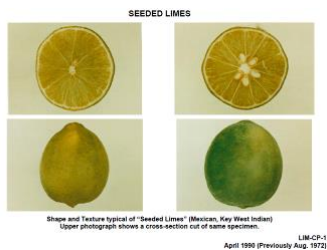


LT-PL-1 (1970)

Lettuce Color Comparator for minimum Deep Pink Color considered in scoring Pink Rib.

(Not available)

Limes



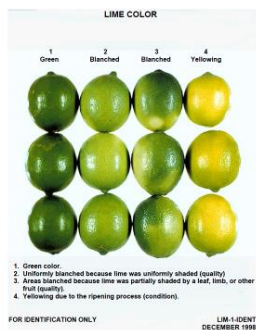
LIM-CP-1 (April 1990)

Seeded limes.



LIM-CP-2 (April 1990)

Seedless limes.



LIM-1-IDENT (December 1998)

ID only: Lime Color Chart.

Row 1: Green.

Row 2: Blanched (uniformly).

Row 3: Blanched (partially)

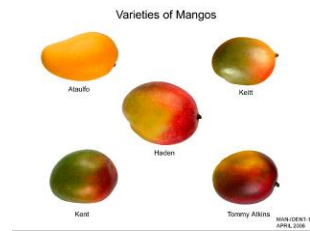
Row 4: Yellowing (due to aging/ripening).



LIM-CC-1 (July 2000)

Persian Lime Color Comparator for minimum color considered "Good Green."

Mangos



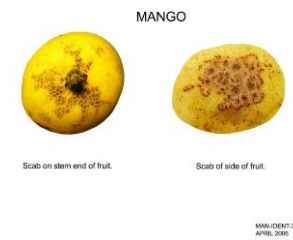
MAN-IDENT-1 (May 2006)

ID only: Varieties of Mangos: Ataulfo, Haden, Keitt, Kent, and Tommy Atkins.



MAN-IDENT-2 (May 2006)

ID-only: Anthracnose in early and in advanced stages.



MAN-IDENT-3 (May 2006)

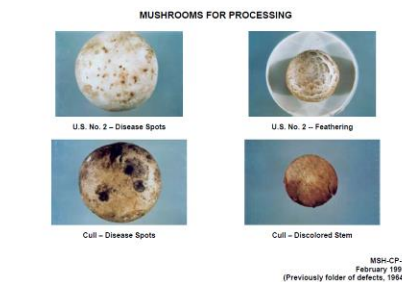
ID only: Scab on stem end and side of fruit.

Mushrooms



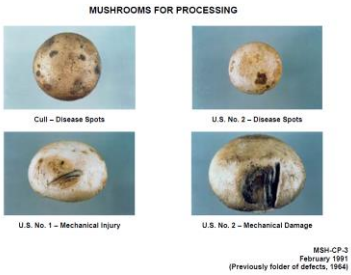
MSH-CP-1 (February 1991)

Fresh vegetables for Processing:
Disease Spots, Feathering, and Stem Discoloration.

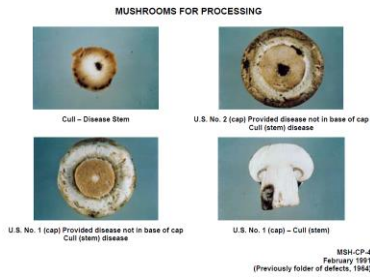


MSH-P-2 (February 1991)

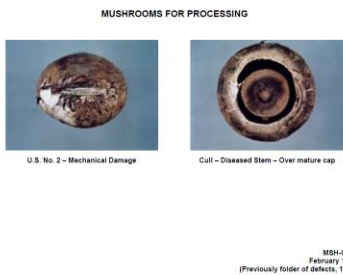
Fresh vegetables for processing:
Disease Spots, Feathering, and Stem Discoloration.



MSH-CP-3 (February 1991)
Fresh vegetables for processing:
Disease Spots and Mechanical.

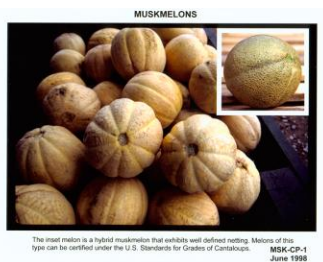


MSH-CP-4 (February 1991)
Fresh vegetables for processing:
Diseased Caps and Stems.



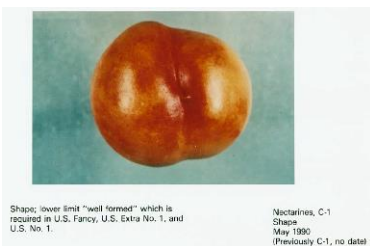
MSH-CP-5 (February 1991)
Fresh vegetables for processing.
Mechanical and Diseased Stems.

Muskmelons

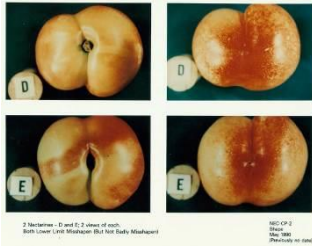


MSK-CP-1 (June 1998)
The inset melon as a hybrid muskmelon that exhibits well defined netting. Muskmelons of this type can be certified under the U.S. Standards for Grades of Cantaloups.

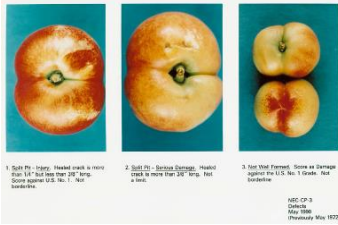
Nectarines



C-1 (May 1990)
Lower limit Well Formed.



NEC-CP-2 (May 1990)
Shape.



NEC-CP-3 (May 1990)
Split Pit and Not Well Formed.

Okra



Longitudinal cut of pod exposing seeds.



Bacterial Soft Rot (early stages)

FOR IDENTIFICATION ONLY
OK-IDENT
September 1992
(Previously OK-CP-1, November 1976)

OK-CP-1 (September 1990)
Scarring, Discoloration, and Shriveled Ends.



Top & Center: U.S. No. 1 - Maximum allowed before scoring as damaged.
Bottom: Damage by discoloration (on scarring) [OK]



Top & Bottom: Seriously damaged by shriveled ends.
Center: Seriously damaged by shriveled ends, including brown discoloration.

OK-CP-1
Scarring, Discoloration & Shriveled Ends
September 1990 (Previously November 1976)

OK-IDENT-1 (September 1990)
ID only: Bacterial Soft Rot.

Onions

It is often necessary to remove the dry outer scales to properly judge whether an onion is damaged or seriously damaged by watery fleshy scales. The following two photos of the same onion illustrate the point.



Presence of dry brown outer scale gives impression that onion is damaged by discolored watersoaked fleshy scales.

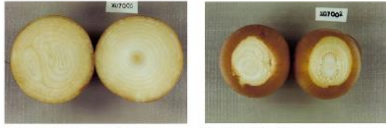


Removal of dry brown outer scale shows onion to be damaged.

C-1
Cut Onion: Scale Present & Removed
March 1990 (previously undated)

C-1 (April 2005, previously March 1990)
Cut onion showing discolored outer scale present and removed.

THESE PICTURES ILLUSTRATE CHARACTERISTICS OF DORMANT AND GROWING ONIONS

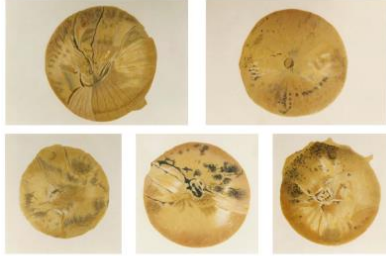


The onion on the left has a completely white heart, characteristic of a dormant onion, while the onion on the right has a yellow, growing onion. A thin slice (1/16 to 1/8 inch) was removed from the bottom of each of two onions. The vascular bundles are not noticeable in the dormant onion on the left, but enlarged vascular bundles are evident on the onion on the right, indicating that growth has started.

C-2
Cut Onions Showing Dormancy & New Growth
March 1990 (previously undated)

C-2 (March 1990)

Cut onion showing dormancy and new growth.



C-10
APPRECIABLY STAINED
MARCH 1990 (previously undated)

C-10 (March 1990)

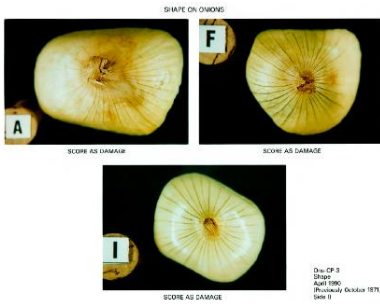
Appreciably Stained.



C-11
BADLY STAINED
MARCH 1990 (previously undated)

C-11 (March 1990)

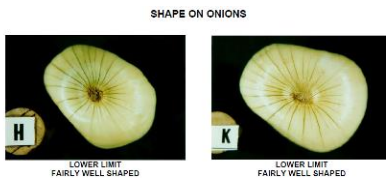
Badly Stained.



ONS-CP-3
Shape
April 1990
(Previously October 1971, Slide 9)

ONS-CP-3 (April 1990)

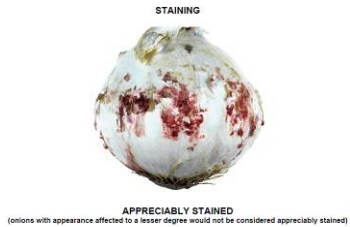
Shape.



ONS-CP-3-A
Shape
April 1990 (Previously October 1971, Slide 8)

ONS-CP-3-A (April 1990)

Shape.



ONS-CP-10A (July 1990)
Appreciably Stained.

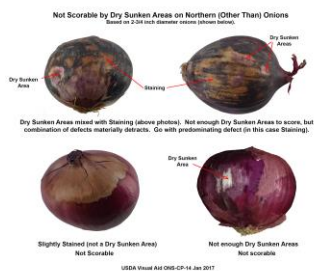
ONS-CP-10A
JULY 1999



ONS-CP-12 (January 2017)
Examples of Damage by Dry Sunken Areas on Northern (Other Than) Onions.



ONS-CP-13 (January 2017)
Examples of Serious Damage by Dry Sunken Areas on Northern (Other Than) Onions.



ONS-CP-14 (January 2017)
Not Scorable by Dry Sunken Areas on Northern (Other Than) Onions.



ONS-IDENT-1 (May 1992)
ID only: Purple Blotch.

FOR IDENTIFICATION ONLY

Purple Blotch

ONS-IDENT.1
MAY 1992



FOR IDENTIFICATION ONLY

ONS-IDENT-2
MAY 1992

ONS-IDENT-2 (May 1992)
ID only: Purple Blotch.



ONIONS WITH EXCESSIVELY LONG ROOTS (SHOWN ABOVE) WHEN IN SUFFICIENT QUANTITY TO MATERIALLY AFFECT THE APPEARANCE OF THE LOT, ARE NOT PERMITTED IN U.S. NO. 1 GRADE.

Onions, Photo No. 1
April 1990 (Previously No. 1, no date)

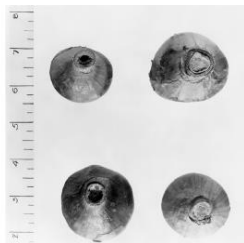
Photo No. 1 (April 1990)
Onions with excessively long roots.
Not permitted in U.S. No. 1.



ONION SEEDSTEMS - THE OUTER SPECIMENS ARE LENGTHWISE SECTIONS SHOWING DAMAGE CAUSED BY SEEDSTEMS.

Onions, Photo No. 2
April 1990 (Previously No. 2, no date)

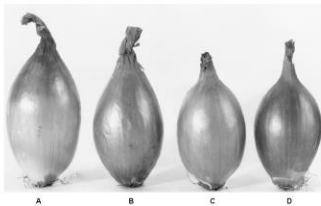
Photo No. 2 (April 1990)
Seedstems.



ONION SEEDSTEMS SHOWING PITHY AND HOLLOW CENTERS. THE OUTER EDGE OF THE STEMS ARE TOUGH AND WOODY. NOT U.S. NO. 1.

Onions, Photo No. 3
April 1990 (Previously No. 3, no date)

Photo No. 3 (April 1990)
Seedstems. Not U.S. No. 1.



ONIONS A, B AND D ARE U.S. COMMERCIAL
ONION C IS U.S. NO. 1

Onions, Photo No. 4
April 1990 (Previously No. 4, no date)

Photo No. 4 (April 1990)
Shape.



ONIONS OF THESE SHAPES SHALL BE ALLOWED IN U.S. NO. 1 GRADE FOR NORTHERN GROWN ONIONS.

Onions, Photo No. 5
April 1990 (Previously No. 5, no date)

Photo No. 5 (April 1990)

Shape permitted in U.S. No. 1 Northern onions.

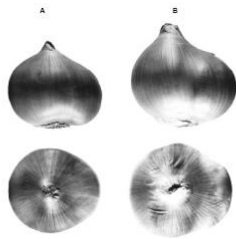


BERMUDA TYPE ONIONS NOT U.S. NO. 1 ACCOUNT OF SHAPE.

Onions, Photo No. 7
April 1990 (Previously No. 7, no date)

Photo No. 7 (April 1990)

Shapes not permitted in U.S. No. 1 BGG onions.

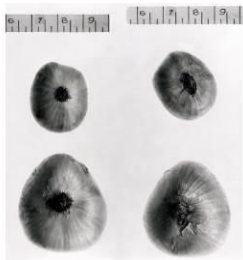


A. U.S. NO. 1 FOR SHAPE
B. U.S. COMMERCIAL FOR SHAPE

Onions, Photo No. 8
April 1990 (Previously No. 8, no date)

Photo No. 8 (April 1990)

Shape permitted in U.S. No. 1 and U.S. Commercial Northern onions.

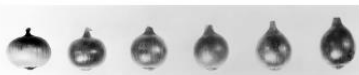


DIFFERENT VIEW OF THE SAME ONIONS
BERMUDA TYPE ONIONS U.S. NO. 1. ILLUSTRATING SHAPE.

Onions, Photo No. 9
April 1990 (Previously No. 9, no date)

Photo No. 9 (April 1990)

Shape permitted in U.S. No. 1 BGG onions.



ONION ON EXTREME LEFT IS CONSIDERED FLAT. ONIONS NOT FLATTER THAN OTHER FIVE ARE CONSIDERED GLOBE SHAPE.

Onions, Photo No. 10
April 1990 (Previously No. 10, no date)

Photo No. 10 (April 1990)

Globe Shaped onions.



GRANEX-GRAND TYPE ONIONS. SHAPES PERMITTED IN U.S. NO. 1 GRADE FOR GRANEX-GRAND ONIONS.

Onions, Photo No. 13
April 1990 (Previously No. 13, no date)

Photo No. 13 (April 1990)
Shapes permitted in U.S. No. 1 BGG onions.

NORTHERN GROWN ONIONS – CRACKING OF SCALES



Cracking of outer, thin, papery scales not considered damaged unless present to extent as to materially affect appearance of lot.



One or more cracked, fleshy scales considered damaged.

Onions, Photo No. 14
April 1990 (Previously No. 14, no date)

Photo No. 14 (April 1990)
Appearance of outer scales in Northern onions.

NORTHERN GROWN ONIONS
Illustrating "Bottlenecks" or "Thick-necked" Onions



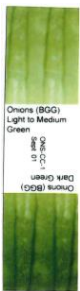
Not "Bottlenecks" – U.S. No. 1



"Bottlenecks" – Not U.S. No. 1 but meet requirements of U.S. No. 2

Onions, Photo No. 15
April 1990 (Previously No. 15, no date)

Photo No. 15 (April 1990)
Bottlenecks or "Thick Necked" Northern onions



Onions (BGG)
Light to Medium
Green
ONS-CC-1
Dark Green

ONS-CC-1 (September 2001)
Onion Color Comparator for BGG onions showing Dark Green and Light to Medium Green Color.



Onions Northern
Medium Green
ONS-CC-2

ONS-CC-2 (September 2001)
Onion Color Comparator for Northern onions showing Medium Green Color.

Onions, Common Green

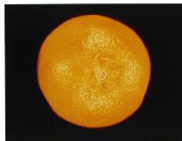


GON-1-IDENT (September 2002)

ID only: Thrip Injury.

Oranges, Tangelos, and Mandarins

ORANGE SKIN-BREAKDOWN



Defectiveness is assessed only in the top dark zone near the stem scar. Light areas on the shoulders are disregarded. Light areas will not show a fair value. This orange would be considered the upper limit of U.S. No. 2. If the breaker had even less oil spotted.

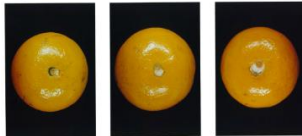
O. J. March 1990
Premium photo file no. 3062

C-1 (March 1990)

Skin Breakdown: Upper limit U.S. No. 2.

PULLED STEMS

Not used when assessing subject to the stem defect unless a pulled stem (stem) that is broken in damage, serious damage, or very serious damage. (Measured when maturity, maturity or very seriously detracting from the appearance of remaining quality of the orange.)



"Orange" - When the red adjacent to the stem scar is more than the aggregate area of a circle 1/8 inch in diameter.

"Serious damage" - When the red adjacent to the stem scar is more than the aggregate area of a circle 1/4 inch in diameter.

"Very serious damage" - When the red adjacent to the stem scar is a solid disk that the diameter of a circle 3/8 inch in diameter or the length of an equal.

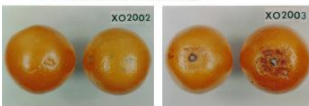
ORG-CP-1
Pulsed Stems
Premium Photo
March, August 1990

ORG-CP-1 (February 1990)

Pulled Stems: Damage, serious damage, and very serious damage.

Characteristics: Skin Breakdown and Oil Spotting

"Skin Breakdown" ("split") when on the side of the fruit, "split" when occurring near the stem scar. It is considered a serious defect unless it is "oil spotted". The "split" becomes large, round and heavy. Occasional oil spots and oil spotting are allowed.



XO2002

Left: Skin Breakdown ("split") is considered a serious defect unless it is "oil spotted". The "split" becomes large, round and heavy. Occasional oil spots and oil spotting are allowed.

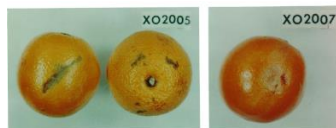
XO2003

Right: Oil spotting is a serious defect. It is considered a serious defect unless it is "oil spotted". The "oil spotted" becomes large, round and heavy. Occasional oil spots and oil spotting are allowed.

ORG-CP-2-A, March 1990
Premium photo file no. 1682

ORG-CP-2-A (March 1990)

Skin Breakdown and Oil Spotting for CA and AZ oranges.



XO2005

Left: Oil spotting is a serious defect. It is considered a serious defect unless it is "oil spotted". The "oil spotted" becomes large, round and heavy. Occasional oil spots and oil spotting are allowed.

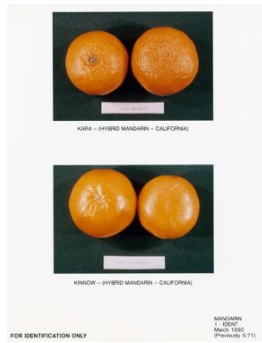
XO2007

Right: Oil spotting is a serious defect. It is considered a serious defect unless it is "oil spotted". The "oil spotted" becomes large, round and heavy. Occasional oil spots and oil spotting are allowed.

ORG-CP-2-B, March 1990
Premium photo file no. 1682

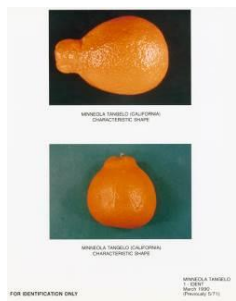
ORG-CP-2-B (March 1990)

Skin Breakdown and Oil Spotting for CA and AZ oranges.



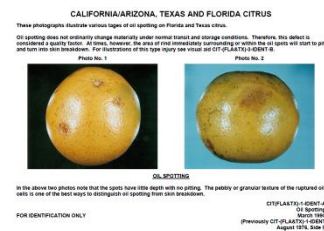
Mandarins 1-IDENT (March 1990)

ID only: Types of mandarins.



Minneola Tangelo 1-IDENT (March 1990)

ID only: Characteristic shape.



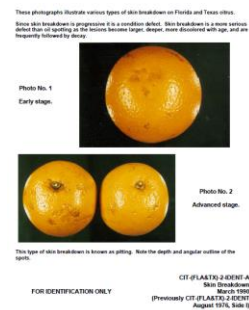
CIT-(FLA&TX) 1-IDENT-A (March 1990)

ID only: Oil Spotting.



CIT-(FLA&TX) 1-IDENT-B (March 1990)

ID only: Oil Spotting.



CIT-(FLA&TX) 2-IDENT-A (March 1990)

ID only: Skin Breakdown.



Photo No. 3

Illustration of advanced stages of skin breakdown on a Tangerine (left)



Photo No. 4

Skin breakdown occurring on the side and around the stem end of the fruit.

NOTE: Skin breakdown normally occurs as pitted or mottled sunken discolored areas.

CIT-FLA&TX-2-IDENT-B
Skin Breakdown
March 1990
(Previously CIT-FLA&TX-2-IDENT
August 1976, Side 1)

FOR IDENTIFICATION ONLY

CIT-(FLA&TX) 2-IDENT-B (March 1990)

ID only: Skin Breakdown.

These photographs illustrate the difference between oil spotting and skin breakdown on Florida and Texas citrus.

In Terminal markets individual fruit affected by both oil spotting and skin breakdown shall be scored against grade as follows:

1. If the oil spotting alone exceeds the limit permitted by the grade, handle as a quality defect and report as oil spotting.
2. If the oil spotting zone does not exceed the limit permitted in the grade but the area of skin breakdown is greater than the grade allows, handle as a condition defect and report as skin breakdown.
3. If neither defect by itself is sufficient to affect grade but together they materially affect the appearance, handle as a condition defect and report as skin breakdown.

Photo No. 1



The original injury to this orange is oil spotting. However, the sunken and discolored areas at the far right and left of the affected area are skin breakdown.

Photo No. 2



Skin Breakdown at left. Oil spotting at right.

CIT-FLA&TX-3-IDENT-A
Oil Spotting/Skin Breakdown
August 1990
(Previously CIT-FLA&TX-3-IDENT
August 1976, Side 1)

FOR IDENTIFICATION ONLY

CIT-(FLA&TX) 3-IDENT-A (March 1990)

ID only: Oil Spotting and Skin Breakdown.



Photo No. 3

Left - This is an abrasion, possibly caused from being in contact with the container of the machinery used in harvesting and packing processes. The abrasion has ruptured the oil cells in a circular spot to oil spotting. However, the area surrounding the abrasion has become sunken and discolored making the right look worse.

NOTE: In the terminal markets, all the fruit in the above photos would be scored as skin breakdown and reported as a condition defect.

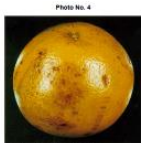


Photo No. 4

Right - Skin breakdown because of spotting. The original injury to this fruit was oil spotting. Subsequently, skin breakdown has started over the oil spotting.

CIT-FLA&TX-2-IDENT-B
Oil Spotting/Skin Breakdown
March 1990
(Previously CIT-FLA&TX-2-IDENT
August 1976, Side 1)

FOR IDENTIFICATION ONLY

CIT-(FLA&TX) 3-IDENT-B (March 1990)

ID only: Oil Spotting and Skin Breakdown.



CC-1 (1951)

Orange Color Comparator (metal plate) showing minimum shade of orange color permitted for Well Colored CA and AZ oranges.

(Not available)



PL-1 (1949)

Orange Color Comparator (Scar Color Guide) showing Light, Fairly Light, and Dark scars for CA and AZ oranges.

(Not available)

Parsnips



SHAPES PERMISSIBLE IN U.S. NO. 1 GRADE
Parsnips, Photo No. 1
September 1990 (Previously No. 1, no date)

Photo No. 1 (September 1990)
Shapes permissible in U.S. No. 1.



SHAPES PERMISSIBLE IN U.S. NO. 1 GRADE
Parsnips, Photo No. 2
September 1990 (Previously No. 2, no date)

Photo No. 2 (September 1990)
Shapes permissible in U.S. No. 1.



SHAPES PERMISSIBLE IN U.S. NO. 2 GRADE
Parsnips, Photo No. 3
September 1990 (Previously No. 3, no date)

Photo No. 3 (September 1990)
Shapes permissible in U.S. No. 2.



SHAPES PERMISSIBLE IN U.S. NO. 2 GRADE
Parsnips, Photo No. 4
September 1990 (Previously No. 4, no date)

Photo No. 4 (September 1990)
Shapes permissible in U.S. No. 2.

Peaches



1. Scale Marks – Not Damaged. Marks are scored on a general appearance basis and not on the size of area affected, as is done when the scale insects are present. Not a time.
2. Scale Marks – Damage. The number and size of marks here materially affect the appearance of the peach. Not borderline.
3. "Silvering or Thrip Injury – Not Damaged. Scored on an appearance basis. The area affected here does not contrast sufficiently to materially affect the appearance of the peach. Not a time.

PCH-CP-1
MARCH 1990
(Previously May 1972)

PCH-CP-1 (March 1990)
Scale and Thrip Injury



Crease Wart (zipper type or roughness of suture)
Maximum allowed - U.S. No. 2



Shape -
Maximum allowed - U.S. No. 2

PCH-CP-2
SHAPE, DEFECTS
MARCH 1990 (Previously June 1977)

PCH-CP-2 (March 1990)

Crease Wart (zipper type suture) and Shape.



Shape - Maximum allowed
Left: U.S. No. 1 Right: U.S. No. 2



Shape - Maximum allowed
U.S. No. 1



Shape - Maximum allowed
(distal halves)
U.S. No. 1

PCH-CP-2-A
SHAPE
APRIL 1990 (Previously June 1977, Side 4)

PCH-CP-2-A (April 1990)

Shape.



Shape
Maximum allowed - U.S. No. 2

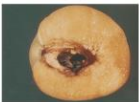


Shape
Maximum allowed - U.S. No. 2

PCH-CP-2-B
SHAPE
MARCH 1990 (Previously June 1977, Side 2)

PCH-CP-2-B (March 1990)

Shape.



Mold in seed cavity
Maximum allowed before considering readily apparent.
(Serious damage at all times)



Consider enlarged seam or protruding suture only.
Maximum allowed - U.S. No. 1

PCH-CP-2-C
DEFECTS
APRIL 1990 (Previously June 1977, Side 5)

PCH-CP-2-C (April 1990)

Mold in seed cavity and Enlarged Seam (Protruding Suture).



Shape - Maximum allowed - U.S. No. 1



Shape - Maximum allowed - U.S. No. 1

PCH-CP-2-D
SHAPE
APRIL 1990 (Previously June 1977, Side 6)

PCH-CP-2-D (April 1990)

Shape.



U.S. No. 1 - OPEN SEAM - MAXIMUM ALLOWED
As a guide based on this photo, the length of this open seam is 1.68 inches (approximately 1/3 of the surface length) and the depth is .39 inch. This peach is approximately 2.24 inches in diameter. The actual width of this open seam is approximately .28 inch.



U.S. No. 2 - Open Seam - Maximum Allowed

PCH-CP-4
7/89

PCH-CP-4 (July 1989)

Open Seams

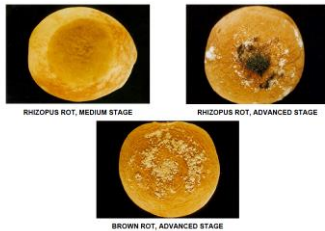


Flat type peaches commonly referred to as "diamond" or "large" peaches can be certified under the U. S. Standards for Grades of Peaches.

PCH-CP-5
APRIL, 2000

PCH-CP-5 (April 2000)

Flat type peaches.



RHIZOPUS ROT, MEDIUM STAGE

RHIZOPUS ROT, ADVANCED STAGE

BROWN ROT, ADVANCED STAGE

FOR IDENTIFICATION ONLY

PCH-1-IDENT
MARCH 1990
(Previously February 1971)

PCH-1-IDENT (March 1990)

ID only: Rhizopus and Brown Rot.



SCAB

WHITE GRANULAR GROWTH IN SEED CAVITY
(ROT MOLD)

BACTERIAL SPOT

FOR IDENTIFICATION ONLY

PCH-2-IDENT
MARCH 1990
(Previously February 1971)

PCH-2-IDENT (March 1990)

ID only: Scab, Bacterial Spot, and White Granular Growth in seed cavity.



Seam Crack

Growth Crack

PCH-3-IDENT
OCTOBER 1993

PCH-3-IDENT (October 1993)

ID only: Seam and Growth Crack.



CC-1 (July 1966)

Fresh fruit for processing:
Peach Color Comparator for lower limit ground color (3 colors on one Plexiglas).

(Not available)

Peanuts



PN-2 (revised 1983)

Shell Discoloration on Valencia type peanuts.



PN-CP-1 and PN-CP-2 (August 1986)

Top photo: Surface Discoloration (PN-CP-1).
Bottom photo: Adhering Dirt on peanuts (PN-CP-2).



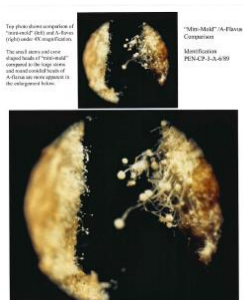
PN-CP-5 (January 1996)

Adhering material on peanut kernels.



PEN-CP-3 (revised September 1982)

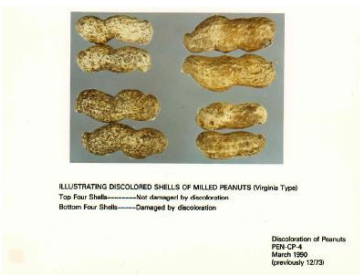
Aspergillus Flavis Mold identification.



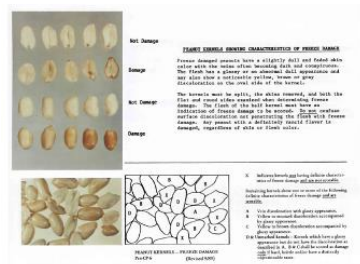
PEN-CP-3-A (June 1989)
 “Mini-Mold” and A-Flavus comparison.



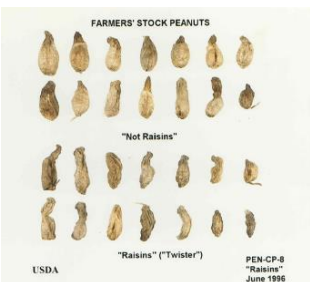
PEN-CP-3-B (June 1989)
 “Mini-Mold” and A-Flavus comparison.



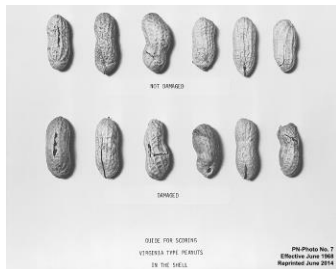
PEN-CP-4 (December 1973)
 Shell Discoloration of Virginia type milled peanuts.



PEN-CP-6 (revised September 1989)
 Peanut kernels showing freeze damage.



PEN-CP-8 (June 1996)
 Farmers stock peanuts showing “Not Raisins” and “Raisins” (“Twister”).



PN Photo No.7 (June 1968)

Guide for scoring Virginia type peanuts in the shell showing “not damaged” and “damaged” shells.



PN-1 (revised 2010)

Peanut Color Comparator for Brown, Gray, Blue-gray and Purple Skin Discoloration on peanuts.



PN-CC-1 (April 2014)

Peanut Color Comparator for minimum Light Yellow Color for scoring Flesh Discoloration.



PNT-CP-7 (September 1992)

High moisture foreign material for peanuts.

PURPLE FLESH DISCOLORATION



Maximum allowed before minor.

PNT-CP-9
July 2000

PNT-CP-9 (July 2000)

Visual aid for Purple Flesh Discoloration, maximum allowed before minor.

GREEN FLESH DISCOLORATION



Maximum allowed before minor.

PNT-CP-10
February 2003

PNT-CP-10 (February 2003)

Visual aid for Green Flesh Discoloration, maximum allowed before minor.

Peanut Kernels: Identification Only - Concealed Rancid, Mold, & Decay



USDA Official Visual Aid

PNT-CP-11 FEB 2014

PNT-CP-11 (February 2014)

Identification only for concealed Rancid, Mold, and Decay.

Pears

PEARS AFFECTED BY PEAR PSYLLA



Left: Moderately scattered
Right: Heavily concentrated

C-1
PEAR PSYLLA
MAY 1990 (Previously January 1954)

C-1 (May 1990)

Degrees of Pear Psylla.

D'ANJOU PEARS



Well Formed
Lower Limit
U.S. Extra No. 1

Fairly Well Formed
Lower Limit
U.S. No. 1

Not Seriously Misshapen
Lower Limit
U.S. No. 2

These photographs illustrate shape of D'Anjou pears with folded or slanted stem end.

PR-CP-2
SHAPE
MAY 1990 (Previously October 1967)

PR-CP-2 (May 1990)

Shape of D'Anjou pears with folded end or slanted stem end.

PEARS
USDA

GROUND COLOR

REVISED 1999

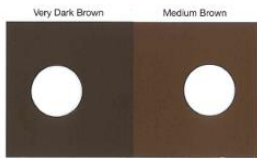


PR-1 (revised 1999)

Pear Color Comparator for Green, Light Green, Yellowish Green and Yellow Ground Color.

DARK SKIN DISCOLORATION ON PEARS
USDA

REVISED 2012



PR-2 (revised 2012)

Pear Color Comparator for very dark brown and medium brown skin discoloration on pears.

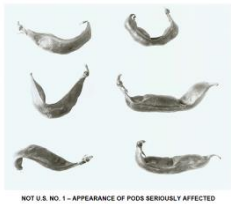
Peas



Peas, Photo No. 1
October 1990 (Previously No. 1, no date)

Photo No. 1 (October 1990)

Well Developed, Fairly Well Developed, and Poorly Developed peas.



Peas, Photo No. 2
October 1990 (Previously No. 2, no date)

Photo No. 2 (October 1990)

Not U.S. No. 1, appearance of pods seriously affected.

Pecans



PEC-PL-1 (March 2016)

This visual aid consists of three color comparators on a key ring. Each color comparator shows a minimum color (Medium Gray, Medium Brown, and Dark Shade) for scoring Internal Flesh Discoloration on pecan kernels.

Peppers, Sweet



LOWER LIMIT "WELL SHAPED"
U.S. FANCY

First photo in back of U.S. Standards for Grades of Sweet Peppers, effective November 17, 2005

U.S. Fancy: Lower limit for Well Shaped.

(Only available as part of standards)



LOWER LIMIT "FAIRLY WELL SHAPED"
U.S. No. 1

Second Photo in Back of U.S. Standards for Grades of Sweet Peppers, effective November 7, 2005

Lower limit U.S. No. 1 for Fairly Well Shaped.

(Only available as part of standards)



LOWER LIMIT "NOT SERIOUSLY MISSHAPE"
U.S. No. 2

Third photo in back of U.S. Standards for Grades of Sweet Peppers, effective November 7, 2005

Lower limit U.S. No. 2 for Not Seriously Misshapen.

(Only available as part of Standards)

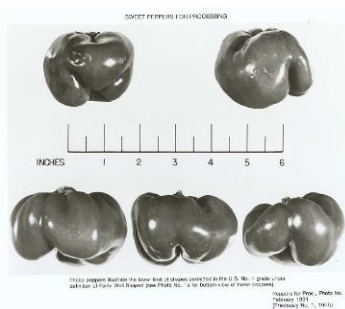


Photo No. 1 (February 1991)

Fresh vegetables for processing:

Lower limit U.S. No. 1 for Fairly Well Shaped.



Photo No. 1A (February 1991)

Fresh vegetables for processing:

Bottom view of peppers shown in Photo No. 1.

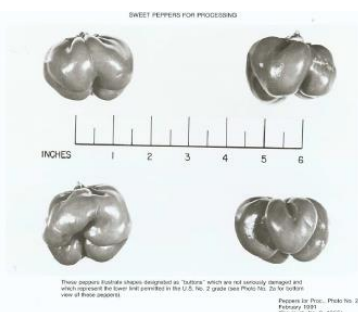


Photo No. 2 (February 1991)

Fresh vegetables for processing:

Lower limit U.S. No. 2 for shapes designated as "Buttons" (not seriously damaged).

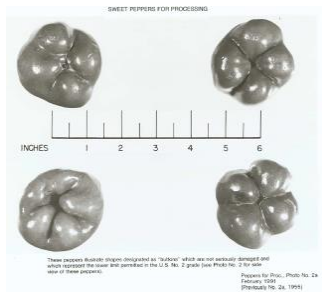


Photo No. 2A (February 1991)

Fresh vegetables for processing:
Bottom view of peppers shown in Photo No. 2.

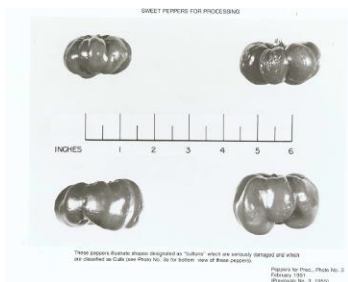


Photo No. 3 (February 1991)

Fresh vegetables for processing:
"Button" shaped peppers which are seriously damaged and classified as Culls.

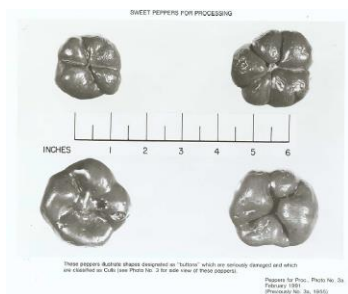


Photo No. 3A (February 1991)

Fresh vegetables for processing:
Bottom view of peppers shown in Photo No. 3.

Pistachio



P-1 through P-8 (June 1972)

Nut kernel classification for aflatoxin analysis.

(Not available)



PIS-CC-1 (November 2011)

Pistachio Color Comparator for maximum Brown Color allowed for light staining on pistachios.

Plums



1. Split Pit Damage - Marks are not over 1/4" deep. Do not exceed 10% of total fruit weight. Do not exceed 1/4" in diameter. Do not exceed 1/4" in length. Do not exceed 1/4" in width.

2. Split Pit Damage - Marks are not over 1/4" deep. Do not exceed 10% of total fruit weight. Do not exceed 1/4" in diameter. Do not exceed 1/4" in length. Do not exceed 1/4" in width.

3. Stem Damage - Cracks in flesh are average that of a crack 1/4" in diameter or 1/4" deep. Not over 1/4" in length.

PLU-CP-1
October
May 1990
Photo: May 1992

PL-CP-1 (May 1990)
Damage by Hail, Split Pit, and Scars.



Serious Damage by Pebbling

Damage by Pebbling (irregular shape)

U.S. No. 1 - Maximum allowed.

In Route or At Destination, score pebbling as a condition factor.
Equal amounts of pebbling on opposite side of fruit.

PLU-CP-2
Pebbling
July 1997

PLU-CP-2 (July 1997)
Left photo: Serious damage by Pebbling.
Middle photo: Damage by Pebbling.
Right photo: U.S. No. 1, maximum allowed.

INTERNAL DISCOLORATION



U.S. No. 1
Maximum allowed

Damage
Maximum allowed

PLU-CP-3
Internal Discoloration
March 2000

PLU-CP-3 (March 2000)
Internal Discoloration.



Santa Rosa - Typical Shape - End View

Santa Rosa - Typical Shape - Side View

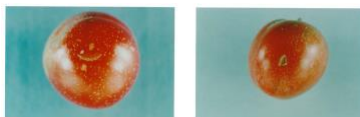
FOR IDENTIFICATION ONLY



Red Beaut - Typical Shape

PL-1-IDENT
May 1990
Photo: May 1992

PL-1-IDENT (May 1990)
ID only: Typical shape for Santa Rosa and Red Beaut varieties.



Fingernail Injury

Mechanical Injury

FOR IDENTIFICATION ONLY



Bird Injury

PL-2-IDENT
May 1990
Photo: May 1992

PL-2-IDENT (May 1990)
ID only: Fingernail, Mechanical, and Bird injury.



PL-3-IDENT (May 1990)

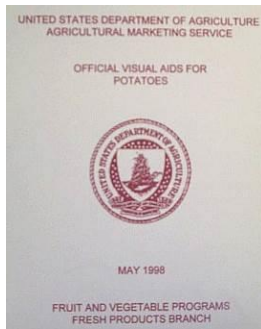
ID only: Deep Suture, Scar, and Healed Cut.



PL-4-IDENT (May 1990)

ID only: Off shape on Santa Rosa account of poor pollination.

Potatoes



POT.-L-1, 3 ring binder (May 1998)

USDA Official Visual Aids for Potatoes

Last updated May 2015 (page 35).

Features 143 lithograph photos (pages 1 to 30) of basic requirements for potatoes and identification and classification of various disorders and defects. In addition, includes updated pages 31 to 35.

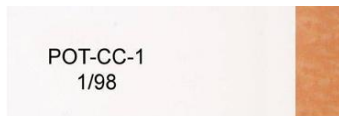
Three-ring vinyl notebook; 11-1/2" long, 10" wide, 1-1/2" thick.



POT-L-2 (December 1980)

Potato Disorder Identification Chart featuring 54 lithograph photos.

(Not available)



POT-CC-1 (January 1998)

Potato Color Comparator showing minimum color for scoring Brown Center and Hollow Heart with Discoloration.



POT-CC-2 (April 2008)

Potato Color Comparator showing minimum color for scoring Internal Black Spot (dark smudge on right). Note: Brown color on left is potato skin.



PP-1 (July 1963)
Fresh vegetables for processing.
Medium Brown Color.

(Not available)



PP-2 (July 1963)
Fresh vegetables for processing.
Tan Color.

(Not available)



PP-3 (July 1963)
Fresh vegetables for processing.
Yellow Color.

(Not available)

Prunes

Instructions for Scoring Internal Discoloration:
Select Type Prunes always made of flesh which are ripened or have a tendency to golden brown tinge and the flesh is not soft or off-flavored should not be scored or damaged or seriously damaged. Prunes should be scored if they are damaged by internal discoloration which is considered acceptable if it shows on one of both sides of the fruit. Do not score prunes if there is more or more light areas of discoloration on the flesh accompanied by a fleshy condition or distinct off flavor or odor. Internal discoloration of prunes is considered a condition defect.



This photograph illustrates the darkest color considered a golden brown tinge. A prune should be scored as severely damaged if a cross section cut shows an area more than 1/4 inch in diameter having a darker color than illustrated.

Prn-CP-1
"Golden Brown Tinge"
Lower Limit for Discoloration
July 1963
Phoenix, July 1963

PRN-CP-1 (May 1990)
Lower limit for Golden Brown Tinge. Includes instructions for scoring Internal Discoloration.



PRN-CC-1 (August 1987)
Prune Color Comparator for Purplish Color (for Washington State only)

(Not available)

Pumpkins



PUM-IDENT
MAY 2005

PUM-IDENT-1 (May 2006)
ID only: Surface Mold on stem.
Note: This much Surface Mold is considered materially detracting (damage) from the appearance of the pumpkin.

Radishes



RAD-CP-1 (September 1990)
Damage by Abrasions and Air Cracks.

RAD-CP-1
Damage by Abrasions & Air Cracks
September 1990 (Previously November 1976)

Rhubarb, Field Grown



RHUBARB - STALKS PERMITTED IN U.S. FANCY AND U.S. NO. 1
Rhubarb, Photo No. 1
October 1990
(Previously No. 1, no date)

Photo No. 1 (October 1990)
Shape: Stalks permitted in U.S. No. 1.

Spinach



Desirable savoy type plant.
Spinach, Photo No. 1
October 1990 (Previously Photo #1, no date)

Photo No. 1 (October 1990)
Desirable savoy type plant.



PLANT SHOWING SLIGHTLY LESS THAN 10% WASTE CAUSED BY COARSE STALK.
Spinach, Photo No. 2
October 1990 (Previously Photo #2, no date)

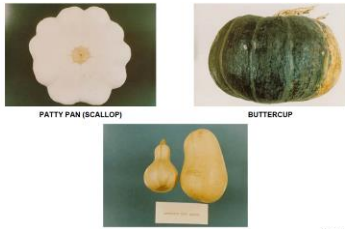
Photo No. 2 (October 1990)
U.S. No. 1: Plant showing slightly less than 10% waste caused by coarse stalk.



PLANT SHOWING COARSE STALK WHICH WOULD CAUSE MORE THAN 10% WASTE.
NOT U.S. NO. 1.
Spinach, Photo No. 3
October 1990 (Previously Photo #3, no date)

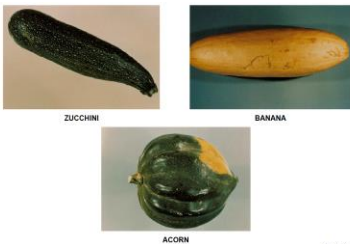
Photo No. 3 (October 1990)
Not U.S. No. 1: Plant showing more than 10% waste caused by coarse stalk.

Squash



FOR IDENTIFICATION ONLY SQ-1-IDENT
Patty Pan, Buttercup and Butternut
October 1990 (Previously October 1978)

SQ-1-IDENT (October 1990)
ID only: Patty Pan, Buttercup, and Butternut.



FOR IDENTIFICATION ONLY SQ-2-IDENT
Zucchini, Banana, & Acorn
October 1990 (Previously October 1978)

SQ-2-IDENT (October 1990)
ID only: Zucchini, Banana, and Acorn.



FOR IDENTIFICATION ONLY SQU-3-IDENT
October 1998

Different varieties may be certified using the U.S. standards (Fall and Winter Type).
Top Left: Golden (orange) acorn squash. Top Right: Yellow acorn squash.
Center: Green acorn squash.

SQU-3-IDENT (October 1998)
ID only: Different varieties may be certified using the U.S. standards for fall and winter type squash. Top Left: Golden (Orange) Acorn. Top Right: Yellow Acorn. Center: Green Acorn.



FOR IDENTIFICATION ONLY SQU-4-IDENT
July 2008

Score as damage when any amount of sprouted seeds penetrated the flesh of the squash.

SQU-4-IDENT (July 2008)
ID only: Sprouting seeds on winter squash.

Strawberries



STR-CP-1 (March 1987)
Guidelines for scoring Underdeveloped (damage) or Badly Deformed (serious damage) for strawberries.

Sweetpotatoes



FAIRLY WELL SHAPED - U.S. EXTRA NO. 1 AND U.S. NO. 1

Sweetpotatoes, Photo No. 5
December 1990
Photocopy No. 5, no date

Photo No. 5 (December 1990)

Fairly Well Shaped: U.S. Extra No. 1 and U.S. No. 1.

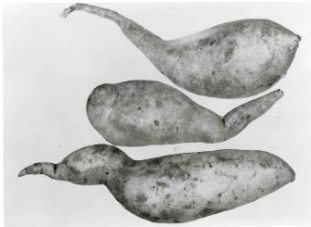


FAIRLY WELL SHAPED - U.S. EXTRA NO. 1 AND U.S. NO. 1

Sweetpotatoes, Photo No. 6
December 1990
Photocopy No. 6, no date

Photo No. 6 (December 1990)

Fairly Well Shaped: U.S. Extra No. 1 and U.S. No. 1.

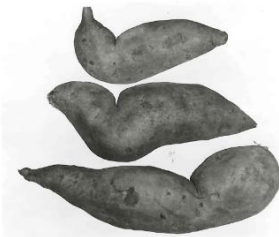


FAIRLY WELL SHAPED - U.S. EXTRA NO. 1 AND U.S. NO. 1

Sweetpotatoes, Photo No. 7
December 1990
Photocopy No. 7, no date

Photo No. 7 (December 1990)

Fairly Well Shaped: U.S. Extra No. 1 and U.S. No. 1.

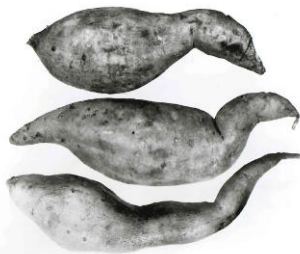


NOT FAIRLY WELL SHAPED - U.S. NO. 2

Sweetpotatoes, Photo No. 8
January 1991
Photocopy No. 8, no date

Photo No. 8 (January 1991)

Not Fairly Well Shaped: U.S. No. 2.



NOT FAIRLY WELL SHAPED - U.S. NO. 2

Sweetpotatoes, Photo No. 9
December 1990
Photocopy No. 9, no date

Photo No. 9 (December 1990)

Not Fairly Well Shaped: U.S. No. 2.



NOT FAIRLY WELL SHAPED - U.S. NO. 2

Sweetpotatoes, Photo No. 10
December 1990
(Previously No. 10, no date)

Photo No. 10 (December 1990)

Not Fairly Well Shaped: U.S. No. 2.



NOT FAIRLY WELL SHAPED - U.S. NO. 2

Sweetpotatoes, Photo No. 11
December 1990
(Previously No. 11, no date)

Photo No. 11 (December 1990)

Not Fairly Well Shaped: U.S. No. 2.



NOT FAIRLY WELL SHAPED - U.S. NO. 2

Sweetpotatoes, Photo No. 12
December 1990
(Previously No. 12, no date)

Photo No. 12 (December 1990)

Not Fairly Well Shaped: U.S. No. 2.



SP-1 (1957)

Color Gradation Chart (4 colors).



SP-1 (1959)

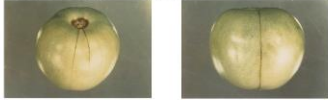
Color Gradation Chart (color no. 4 only).

SWEETPOTATOES FOR
PROCESSING
SP-1 COLOR NO. 4
USDA.....1959

Tomatoes

"ZIPPER" TYPE SCARS OF FRESH TOMATOES

Scars are a quality factor and shall be scored on the basis of appearance – whether they materially, seriously or very seriously detract from the appearance of the individual tomato. The U.S. Standards permit scars which are smooth and have no depth and do not aggregate more than a circle 3/8 inch, 5/8 inch and 1 inch in diameter for the U.S. No. 1, U.S. No. 2 and U.S. No. 3 grades respectively. The exact cause for this type of scar is not clear, but they are believed to be caused by poor pollination. Zipper type scars may be thin and smooth or wide and rough with a "ribbing" appearance.



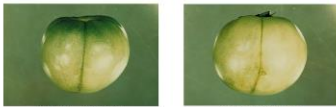
U.S. NO. 1 U.S. NO. 1
These photographs illustrate the maximum extent the appearance of the individual tomato may be affected and still grade U.S. No. 1. (Assume other side is free from)

TM-CP-1
Zipper Scars
June 1990 (Previously January 1977, Side I)

TM-CP-1 (June 1990)

Zipper Scars: U.S. No. 1.

"ZIPPER" TYPE SCARS OF FRESH TOMATOES



U.S. NO. 2 – NOT A LIMIT U.S. NO. 2 – NOT A LIMIT

(Assume other side is free from)

TM-CP-1-A
Zipper Scars
June 1990 (Previously January 1977, Side II)

TM-CP-1-A (June 1990)

Zipper Scars: U.S. No. 2.

"SOIL SPOT" (GROUND STAIN) FRESH TOMATOES

Soil Spot is a disorder that frequently affects field grown tomatoes following periods of rainy weather. This disorder can vary greatly in both appearance and severity. In early stages Soil Spot usually appears as dark brown to black discolored areas, generally occurring over the blossom half of the tomato. The disorder may occur as raised superficial discolored areas and remain that way throughout the ripening process (See Photo III or the areas may become very sunken, larger in area and darker colored as in Photo IV. (For Photo's III and IV, see TM-CP-2-A).

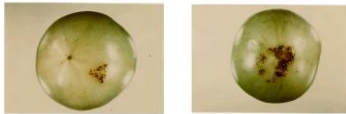


PHOTO I (IDENT. ONLY) PHOTO II (IDENT. ONLY)

Because of the varying characteristics of this disorder, Soil Spot is a Condition factor.

TM-CP-2
Soil Spot
June 1990 (Previously February 1978, Side I)

TM-CP-2 (June 1990)

Soil Spot.

"SOIL SPOT" (GROUND STAIN) FRESH TOMATOES

Maximum aggregate of Soil Spot allowed in the following U.S. grades based on 2 1/2 inch tomato:

	U.S. No. 1	U.S. No. 2	U.S. No. 3
Area Sunken	1/4"	3/8"	5/8"
Area Not Sunken	3/8"	1/2"	3/4"

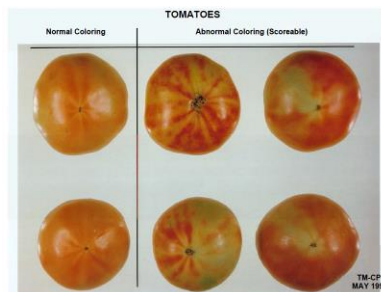


PHOTO III (IDENT. ONLY) PHOTO IV (IDENT. ONLY)

TM-CP-2-A
Soil Spot
June 1990 (Previously February 1978, Side II)

TM-CP-2-A (June 1990)

Area guide for Soil Spots.

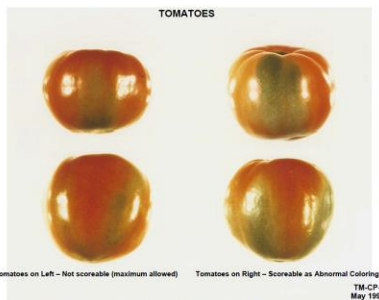


Normal Coloring Abnormal Coloring (Scoreable)

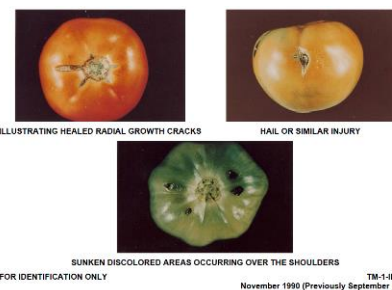
TM-CP-3
MAY 1992

TM-CP-3 (May 1992)

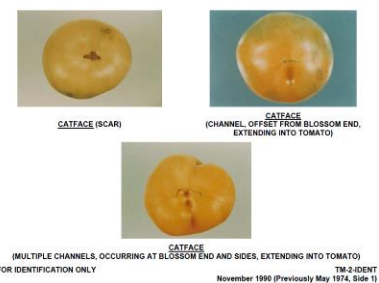
Abnormal Coloring.



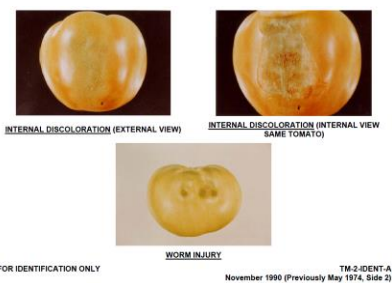
TM-CP-4 (May 1992)
Abnormal Coloring.



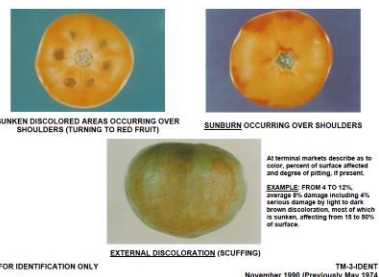
TM-1-IDENT (November 1990)
ID only: Growth Cracks, Hail Injury, and Sunken Discolored Areas.



TM-2-IDENT (November 1990)
ID only: Catfaces.



TM-2-IDENT-A (November 1990)
ID only: Internal Discoloration and Worm injury.



TM-3-IDENT (November 1990)
ID only: Sunken Discolored Areas, Sunburn, and External Discoloration.

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURE MARKETING SERVICE
FRUIT AND VEGETABLE DIVISION

THE TOMATO IMPORT REGULATIONS, AS DEFINED IN SECTION 980.212, EXEMPT THE FOLLOWING TYPES OF TOMATOES:

PEAR SHAPED MEANS ELONGATED TYPES, COMMONLY REFERRED TO AS PEAR SHAPED OR PASTE TOMATOES. INCLUDES SAN MARZANO, RED TOP, AND ROMA VARIETIES.


CHERRY CERASIFORM TYPES OF TOMATOES COMMONLY REFERRED TO AS "CHERRY TOMATOES"

HYDROPONIC TOMATOES GROWN IN A SOLUTION WITHOUT SOIL.


GREENHOUSE GROWN INDOORS.

THE FOLLOWING ILLUSTRATIONS MAY BE USED AS AN AID IN CLASSIFYING CHERRY AND ELONGATED TYPES OF TOMATOES:

CHERRY



ELONGATED



TM-4-IDENT
1182

TM-4-IDENT (November 1982)
Exempt types of tomatoes as defined in the Tomato Import Regulations, Section 980.212.

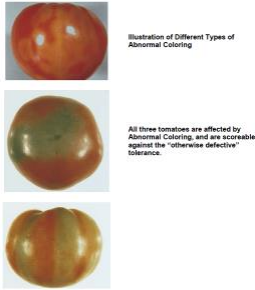


Illustration of Different Types of Abnormal Coloring

All three tomatoes are affected by Abnormal Coloring, and are scoreable against the "otherwise defective" tolerance.

TM-5-IDENT
Abnormal Coloring
May 1992

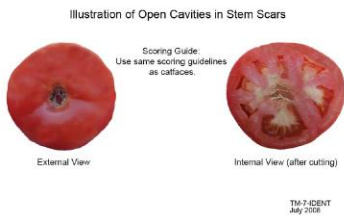
TM-5-IDENT (May 1992)
ID only: Abnormal Coloring.



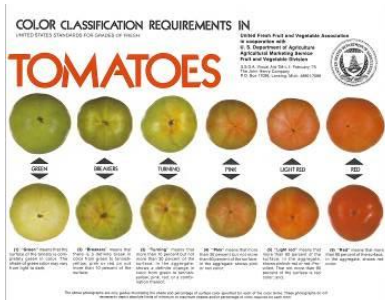
All tomatoes are affected by Abnormal Coloring

TM-6-IDENT
Abnormal Coloring
May 1992

TM-6-IDENT (May 1992)
ID only: Abnormal Coloring.



TM-7-IDENT (July 2008)
ID only: Open Cavities in Stem Scars.



TM-L-1 (February 1975)
Tomato Color Chart for surface color classification requirements described as Green, Breakers, Turning, Pink, Light Red, and Red.



PL-1 (1950)

Vegetables for processing:
Tomato Color Comparator for U.S. No. 1, lower limit color.

(Not available)



PL-2 (1950)

Vegetables for processing:
Tomato Color Comparator for U.S. No. 2, lower limit color.

(Not available)

Tomatoes, Italian Type



PL-1 (1957)

Vegetables for processing:
Italian Type Tomato Color Comparator for U.S. No. 1, Lower limit color.

(Not available)

Turnips/Rutabagas



Photo No. 1 (January 1991)

Not U.S. No. 1.

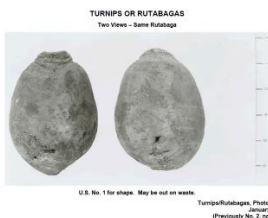


Photo No. 2 (January 1991)

U.S. No. 1 for shape. Maybe out on waste.

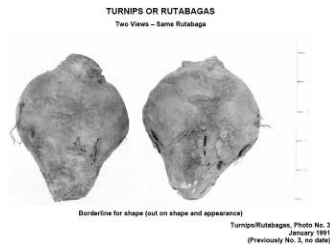


Photo No. 3 (January 1991)

Borderline on shape. Out on shape and appearance.



Photo No. 4 (January 1991)

U.S. No. 1 for shape. Maybe out on waste.



Photo No. 5 (January 1991)

Not U.S. No. 1.



Photo No. 6 (January 1991)

Borderline.



Photo No. 7 (January 1991)

Not U.S. No. 1.



Not U.S. No. 1
Turnips/Rutabagas, Photo No. 8
January 1991
(Previously No. 8, no date)

Photo No. 8 (January 1991)

Not U.S. No. 1.



U.S. No. 1 for shape. If very rough on bottom, score against grade.

Turnips/Rutabagas, January 1991
(Previously No. 9, no date)

Photo No. 9 (January 1991)

U.S. No. 1 for shape. If very rough on bottom, score against grade.



U.S. No. 1

Not U.S. No. 1

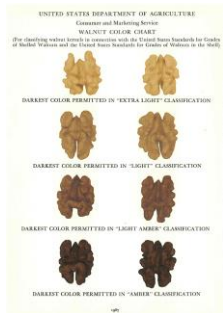
Turnips/Rutabagas, Photo No. 10
January 1991
(Previously No. 10, no date)

Photo No. 10 (January 1991)

Left photo: U.S. No. 1.

Right photo: Not U.S. No. 1.

Walnuts



Walnut Color Chart (1967)

Pictorial reference for classifying walnut kernels with U.S. standards for grades of shelled walnuts and walnuts in the shell.

(Not available)

Watermelons

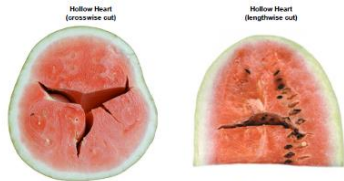


Damage by Ring Worm Scarring

Watermelons
Ring Worm Scarring, C-1
March 1990 (Previously 1993)

C-1 (March 1990)

Damage by Ring Worm Scarring.



Hollow Heart (crosswise cut) **Hollow Heart (lengthwise cut)**

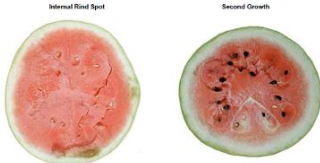
Extreme example found with "traditional" crosswise cut. Crack extends horizontally through the melon from stem to blossom end. Note the indented areas of the melon circumference that correspond with each crack.

Crack is oriented vertically, toward one end of this long type melon. Detected with a lengthwise cut, not evident using the "traditional" crosswise cut.

WAT-IDENT-1
May 2000

WAT-IDENT-1 (May 2000)

ID only: Hollow Heart.



Internal Rind Spot **Second Growth**

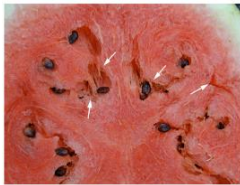
Seldom, if ever, detected externally. Associated with drought conditions. Spots are tan to brown, generally hard, dry and confined to the inner rind.

Color of affected areas can range white to light brown with flesh generally less than "fatty sweet."

WAT-IDENT-2
May 2000

WAT-IDENT-2 (May 2000)

ID only: Internal Rind Spot and Second Growth.



Melon has open seed cavities and stringy, crystallized (mealy) flesh.

WAT-IDENT-3
May 2000

WAT-IDENT-3 (June 2000)

ID only: Overripe.

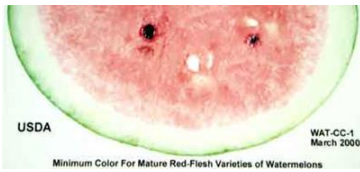


Enlarged/Open Seed Cavities
(Not a scorable defect)

WAT-IDENT-4
April 2003

WAT-IDENT-4 (April 2003)

ID only: Enlarged Opened Seed Cavities (not a scorable defect).



USDA

WAT-CC-1
March 2000

Minimum Color For Mature Red-Flesh Varieties of Watermelons

WAT-CC-1 (March 2000)

Watermelon Color Comparator for minimum color of mature red-flesh varieties.



USDA WAT-CC-2
Watermelons: Medium Brown
This is the minimum brown color for scoring Transit Rubs.
August 2014

WAT-CC-2 (August 2014)

Watermelon Color Comparator for Medium Brown Color. This is the minimum brown color for scoring Transit Rubs.

FRESH FRUITS, VEGETABLES, NUTS AND SPECIALTY PRODUCTS: MODELS

(Not available or very limited availability)

Apples, Color**Models DA-1, MC-2, MC-3, SC-2, SC-3, WA-1, WA-2, WC-1 to WC-3, APL-M-1 to APL-M-3**

DA-1.....	Minimum color (15%) U.S. No. 1 – Standard Delicious.
MC-2.....	Minimum color (33%) U.S. Fancy – McIntosh.
MC-3.....	Minimum color (50%) U.S. Extra Fancy – McIntosh.
SC-2.....	Minimum color (15%) U.S. No. 1 – Stayman.
SC-3.....	Minimum color (33%) U.S. Fancy – Stayman.
WA-1.....	75% red color – Winesap.
WA-3.....	Minimum color (40%) U.S. Fancy – Winesap.
WC-1.....	25% Good Red Color – Winesap.
WC-2.....	40% Good Red Color – Winesap.
WC-3.....	66% Good Red Color – Winesap.
APL-M-1 (1971).....	25% Good Red Color U.S. No. 1 – Red Delicious.
APL-M-2 (1971).....	40% Good Red Color U.S. Fancy – Red Delicious.
APL-M-3 (1971).....	66% Good Red Color U.S. Extra Fancy – Red Delicious.

Apples, Shape**Models WB-1 to 5, MS-2, MS-3, S-1, DB-1, DB-2, and DS-3 to 6**

WB-1.....	Lower limit Fairly Well Formed – Winesap, similar varieties.
WB-2.....	Upper limit Not Seriously Deformed – Winesap, similar varieties.
WB-3.....	Lower limit Not Seriously Deformed – Winesap, similar varieties.
WB-4.....	Lower limit Not Seriously Deformed – Winesap, similar varieties.
WB-5.....	Lower limit Well Formed – Winesap and similar varieties.
MS-2.....	Lower limit Fairly Well Formed – McIntosh.
MS-3.....	Lower limit Fairly Well Formed – McIntosh.
S-1.....	Lower limit Fairly Well Formed – McIntosh, similar varieties.
DB-1.....	Lower limit Fairly Well Formed – Delicious, similar varieties.
DB-2.....	Lower limit Not Seriously Deformed - Delicious, similar varieties.
DS-3.....	Lower limit Fairly Well Formed – Delicious.
DS-4.....	Upper limit Not Seriously Deformed – Delicious.
DS-5.....	Upper limit Not Seriously Deformed – Delicious.
DS-6.....	Well Formed – Delicious and similar varieties.

Apples, Defects**Models K-1 and K-2**

K-1.....	Lower limit knob size and color U.S. No. 1 and U.S. Fancy.
K-2.....	Lower limit knob size and color U.S. Utility.

Cherries, Sweet



CHR-M-1 (1971)
Lower limit Suture U.S. No. 1.

(Not available)

Cranberries (model comes with glass bottle and rubber stopper)



M-1
Lower limit Bruising U.S. NO. 1.

(Not available)



M-2
Lower limit Scarring U.S. No. 1.

(not available)

Garlic

Models No. 1, 2, 3, and 4

- No. 1..... Lower limit Materially Stained (if less staining would not be Materially Stained).
- No. 2..... Lower limit Materially Stained (if less staining would not be Materially Stained).
- No. 3..... Upper limit Materially Stained (if more staining would be Badly Stained).
- No. 4..... Upper limit Materially Stained (if more staining would be Badly Stained).

Grapefruit, Color

Model C-1 (1955) Lower limit Fairly Well Colored U.S. No. 1 for FL and TX.

Grapefruit, Discoloration

Models D-1, D-2, M-3, and M-4

- D-1**..... Showing 1/3 of surface in aggregate affected with Discoloration.
- D-2**..... U.S. No. 1 Russet for FL and TX, or lower limit U.S. No. 2 for TX (2/3 of surface in aggregate allowed for discoloration).
- M-3**..... Maximum Discoloration and Speck-type Melanose permitted in U.S. No. 2 for TX (equivalent to 2/3 of surface in aggregate).
- M-4**..... Lower limit U.S. No. 2 for TX (Melanose).

Grapefruit, Scale (ID only)

Models No. 1 to No. 12

- No. 1**..... Purple or Oyster Shell Scale.
- No. 2**..... Purple or Oyster Shell Scale.
- No. 3**..... Chaff Scale.
- No. 4**..... California Red Scale.
- No. 5**..... Long Scale.
- No. 6**..... Florida Red Scale.
- No. 7**..... Purple or Oyster Shell Scale.
- No. 8**..... California Red Scale.
- No. 9**..... Long Scale.
- No. 10**..... Chaff Scale.
- No. 11**..... Purple or Oyster Shell Scale.

No. 12.....	Florida Red Scale.
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Grapefruit, Scarring (Florida)	Models SC-1, SC-1A, SC-1B, and SC-1C
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SC-1.....	U.S. No. 1, not borderline.
SC-1A.....	U.S. No. 1, maximum scarring.
SC-1B.....	U.S. No. 1, maximum scarring.
SC-1C.....	U.S. No. 1, maximum scarring.

Grapefruit, Shape	Models S-1 to S-8
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S-1.....	U.S. No. 1 (CA, AZ, FL, TX).
S-2.....	U.S. No. 2 (CA, AZ, FL, TX).
S-3.....	U.S. No. 2 (CA, AZ, FL, TX).
S-4.....	U.S. No. 2 (CA, AZ, FL, TX).
S-5.....	U.S. No. 3 (CA, AZ, FL, TX).
S-6.....	U.S. No. 3 (CA, AZ, FL, TX).
S-7 (1964).....	Lower limit U.S. No. 1 Ruby Red for elongation (CA, AZ).
S-8 (1964).....	Lower limit U.S. No. 1 Ruby Red for pointed stem end (CA, AZ).

Grapefruit, Texture (CA and AZ)	Models T-1 and T-2
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T-1.....	Showing poorest texture permitted on U.S. No. 1.
T-2.....	Showing poorest texture permitted on U.S. No. 2.

Kiwifruit, Shape (October 1986)	Models L.L.W.F. and .L.L.F.W.F.
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L.L.W.F.....	Lower limit Well Formed.
.L.L.F.W.F.....	Lower limit Fairly Well Formed.

Lemons, Shape	Models No. 1 to No. 6, No. 13, No. 14, No. 15, No. 17, and No. 18.
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No. 1.....	Upper limit U.S. No. 2.
No. 2.....	U.S. No. 1.
No. 3.....	U.S. No. 1.
No. 4.....	U.S. No. 2.
No. 5.....	U.S. No. 2.
No. 6.....	U.S. No. 2.
No. 13.....	U.S. No. 1.
No. 14.....	Lower limit U.S. No. 1.
No. 15.....	Upper limit U.S. No. 2 (just below U.S. No. 1).
No. 17 (February 1956).....	Lower limit Fairly Well Formed U.S. No. 1.
No. 18 (1956).....	U.S. No. 2 (not lower limit). Too round to be considered as having normal characteristic lemon shape.

Lemons, Scars

Model No. 12.....	Showing Scar color.
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Lemons, Lumpiness

Model No. 16..... U.S. No. 2, not lower limit.

Lemons, Texture & Smoothness **Dated April 1959: Models No. 19, No. 20, and No. 22 to No. 26**

No. 19..... Lower limit, Smooth.
No. 20..... Lower limit U.S. No. 1, Fairly Smooth.
No. 22..... Lower limit U.S. No. 1, Fairly Smooth.
No. 23..... Lower limit U.S. No. 1, Fairly Smooth.
No. 24..... Lower limit U.S. No. 2, Reasonably Smooth.
No. 25..... Lower limit U.S. No. 2, Reasonably Smooth.
No. 26..... Lower limit U.S. No. 2, Reasonably Smooth.

Nectarines **Dated 1968: Models No. 1, No. 2, and No. 3**

No. 3..... Lower limit Misshapen (but not Badly Misshapen) on Early Sun Grand.
No. 4..... Lower limit Misshapen (but not Badly Misshapen) on Early Sun Grand.
No. 5..... Lower limit U.S. No. 1 for Healed Seam (shape) on this size nectarine.

Onions, Shape (Northern Grown) **Models No. 1 to No. 15**

No. 1..... U.S. No. 1
No. 2..... U.S. No. 1.
No. 3..... U.S. No. 1.
No. 4..... U.S. No. 1.
No. 5..... U.S. No. 1.
No. 6..... Lower limit U.S. No. 1.
No. 7..... U.S. Commercial.
No. 8..... U.S. Commercial.
No. 9..... U.S. Commercial.
No. 10..... U.S. Commercial.
No. 11..... U.S. Commercial.
No. 12..... U.S. No. 2.
No. 13..... U.S. No. 2.
No. 14..... U.S. No. 2.
No. 15..... U.S. No. 2.

Onions, Shape (Spanish) **Models No. 16 to No. 21**

No. 16..... U.S. No. 1.
No. 17..... Upper limit U.S. Commercial.
No. 18..... U.S. Commercial.
No. 19..... U.S. Commercial.
No. 20..... U.S. Commercial.
No. 21..... U.S. Commercial.

Onions, Shape (Australian Brown) Models No. 22 to No. 25

No. 22.....	Lower limit U.S. No. 1.
No. 23.....	U.S. No. 1, not borderline.
No. 24.....	Upper limit U.S. Commercial.
No. 25.....	U.S Commercial, not borderline.

Onions, Bermuda Granex-Grano Models B-1 to B-9

B-1.....	U.S. No. 1.
B-2.....	U.S. No. 1.
B-3.....	U.S. No. 1.
B-4.....	U.S. No. 1.
B-5.....	U.S. No. 1.
B-6.....	U.S. No. 2.
B-7.....	U.S. No. 2.
B-8.....	U.S. No. 2.
B-9.....	U.S. No. 2.

Oranges, Discoloration Models D-1, D-2, No. 8, No. 29, and No. 36

D-1.....	Maximum Discoloration allowed in U.S. No. 1 for FL and TX.
D-2.....	Maximum Solid Discoloration (approximately 1/3 of surface) allowed in U.S. No. 1 for FL and TX.
No. 8.....	U.S. No. 1 (near borderline of 1/3 of surface).
No. 29.....	Maximum Discoloration caused by scarring permitted in U.S. No. 1 for FL and TX.
No. 36.....	Lower limit Discoloration allowed in U.S. No. 1 for FL and TX.

Oranges, Grooving (CA and AZ) Models G-1, G-2, and G-3

G-1.....	U.S. No. 1, but borderline account of groove depth.
G-2 (1955).....	U.S. No. 1, but borderline account of number of grooves.
G-3 (1955).....	U.S. No. 2, but borderline account of groove depth and width.

Oranges, Protruding Navel (CA and AZ) Models N-1 to N-4

N-1.....	Lower limit U.S. No. 1.
N-2.....	Lower limit U.S. No. 1.
N-3.....	Lower limit U.S. No. 2.
N-4.....	Lower limit U.S. No. 2.

Oranges, Scab (FL and TX) SC-1, SC-2, and SC-3

SC-1.....	Maximum scab U.S. No. 1.
SC-2.....	Maximum scab U.S. No. 1.
SC-3.....	Maximum scab U.S. No. 1.

Oranges, Shape (CA and AZ)		Dated 1959: Models S-1 and S-2
S-1.....	Lower limit Well Formed U.S. fancy and U.S. No. 1.	
S-2.....	Lower limit Fairly Well Formed U.S. No. 2.	
Oranges, Texture		Models T-1 to T-5, TT-1, and TS-1
T-1.....	Lower limit U.S. No. 1 for FL and TX.	
T-2.....	Lower limit U.S. No. 1 for FL.	
T-3.....	Lower limit U.S. No. 2 for FL.	
T-4.....	Lower limit U.S. No. 1 for CA and AZ.	
T-5.....	Lower limit U.S. No. 2 for CA and AZ.	
TT-1.....	Lower limit U.S. No. 1 for CA and AZ.	
TS-1 (1962).....	Lower limit U.S. No. 1 for Israeli Shamouti.	
Peaches, Color		
Model 1-C (1960).....	Shows 25% color and color gradation necessary to qualify as color.	
Peaches, Defects		Models 1-D and 2-D
1-D (1960).....	Maximum Healed Open Seam allowed for U.S. No. 1 on this size peach.	
2-D (1963).....	Maximum Crease Wart allowed for U.S. No. 1 on this size peach.	
Peaches, Shape		
Model 1-S (1959).....	Lower limit Well Formed for Duke of Georgia, Merrill Gem, and other varieties characteristically similar in shape.	
Pears, Shape (Anjou)		Models A-1 to A-4 and A-8 to A-16
A-1.....	Lower limit U.S. Extra No. 1.	
A-2.....	Lower limit U.S. Extra No. 1.	
A-3.....	Lower limit U.S. Extra No. 1.	
A-4.....	Lower limit U.S. Extra No. 1.	
A-8.....	Lower limit U.S. No. 1.	
A-9.....	Lower limit U.S. No. 1.	
A-10.....	Lower limit U.S. No. 2.	
A-11.....	Lower limit U.S. No. 2.	
A-12.....	Lower limit U.S. No. 2.	
A-13.....	Lower limit U.S. No. 2.	
A-14.....	Lower limit U.S. No. 1.	
A-15.....	Lower limit U.S. No. 1.	
A-16.....	Lower limit U.S. No. 1.	

Pears, Shape (Bartlett)**Models No. 3, No. 5 to No. 7, No. 27, No. 30, No. 46, No. 55, P-4, and PR-M-56**

No. 3 (1962-63).....	Lower limit U.S. No. 1.
No. 5 (1962-63).....	Lower limit U.S. No. 1.
No. 6 (1962-63).....	Lower limit U.S. No. 1.
No. 7 (1962-63).....	Lower limit U.S. No. 1.
No. 27.....	Lower limit U.S. No. 2.
No. 30.....	Lower limit U.S. No. 2.
No. 46 (1962-63).....	Lower limit U.S. No. 1.
No. 55 (1962-63).....	Lower limit U.S. No. 1.
P-4 (1960).....	Lower limit U.S. No. 1 and WA and OR Extra Fancy for Bartlett Pebling.
PR-M-56 (1973).....	Lower limit U.S. No. 1 for Slanted Stem End.

Pears, Shape (Bosc)**Models B-1 to B-11**

B-1.....	U.S. No. 1.
B-2.....	U.S. No. 1.
B-3.....	U.S. No. 1.
B-4.....	U.S. No. 1.
B-5.....	U.S. No. 1.
B-6.....	U.S. No. 2.
B-7.....	Cull.
B-8.....	U.S. No. 2.
B-9.....	U.S. No. 2.
B-10.....	Cull.
B-11.....	Cull.

Pears, Shape (Winter Nellis)**Models N-1 to N-6**

N-1.....	Lower limit U.S. No. 1.
N-2.....	Lower limit U.S. No. 1.
N-3.....	Lower limit U.S. No. 2.
N-4.....	Lower limit U.S. No. 2.
N-5.....	Lower limit U.S. No. 2.
N-6.....	Lower limit U.S. No. 2.

Pecans

**PEC-MC-1 (1968)**

Pecan color standards consisting of 4 plastic models.

(Not available)

Percentage Model

Percentage ModelShows aggregate area by circles of 5%, 10%, 15%, 20%, and 25%.

Potatoes, Defects	Models No. 1, No. 2, No. 6, No. 8, and No. 10 to No. 13
No.1.....	Maximum Surface Scab (5% of surface) permitted in U.S. No. 1.
No. 2.....	Maximum Growth Crack permitted in U.S. No. 1 for this size of potato. Correspondingly larger or smaller growth cracks permitted on larger or smaller potatoes.
No. 6.....	Maximum Pitted Scab permitted in U.S. No. 1 for this size of potato.
No. 8.....	Lower limit Flaring Growth Crack in U.S. No. 2 (intermediate or round type).
No. 10.....	Slightly Skinned round red potato.
No. 11.....	Moderately Skinned round red potato.
No. 12.....	Slightly Skinned long type potato.
No. 13.....	Moderately Skinned long type potato.
Potatoes, Shape	Models S-1, S-5, S-6, S-15, and S-15
S-1.....	Lower limit U.S. No. 1.
S-5.....	Lower limit U.S. No. 1 Second Growth (long type).
S-6.....	Lower limit U.S. No. 2 Folded Growth (long type).
S-14.....	Not a limit U.S. No. 2 (all types).
S-15.....	Not a limit U.S. No. 2 (all types).
Prunes	Models No. 6 and No. 7
No. 6.....	Minimum color for Fairly Well Colored.
No. 7.....	Minimum color for U.S. No. 1 Italian prune.
Sweetpotatoes	Models No. 1 to No. 5
No. 1.....	Maximum veining permitted in U.S. Extra No. 1.
No. 2.....	Maximum veining permitted in U.S. No. 1.
No. 3.....	Not U.S. No. 1 account of roughness.
No. 4.....	Not U.S. No. 1 account of roughness.
No. 5.....	Not U.S. No. 1 account of roughness.
Tangerines	Models 3-7 and 9
No. 3.....	Lower limit U.S. No. 1 for green spots. Also shows good shade of yellow color for U.S. No. 1 (not borderline).
No. 4.....	Lower limit U.S. No. 2 for Green Spots.
No. 5.....	Green Spots permitted in U.S. No. 2.
No. 6.....	Green Spots not permitted in U.S. No. 2.
No. 7.....	Not lower limit U.S. Fancy for Deep Tangerine Color.
No. 9.....	Lower limit U.S. No. 1 for minimum yellow color and for maximum area for green color.
Tomatoes, Color classifications	
Green, Breakers, Turning, Pink, Light Red, and Red	

Tomatoes, Shape and Smoothness **Models 9, 11, 11A, 13A, 14, 15, 15B, 17, 17A, 18, 21, 21B, 22A, 27, and 29**

No. 9	U.S. No. 1.
No. 11	Lower limit, U.S. no. 1.
No. 11A	Lower limit U.S. No. 1.
No. 13A	U.S. No. 2.
No. 14	U.S. No. 2.
No. 15	U.S. No. 2.
No. 15B	U.S. No. 2.
No. 17	Lower limit U.S. No. 2.
No. 17A	Lower limit U.S. No. 2.
No. 18	Lower limit U.S. No. 2.
No. 21	Lower limit U.S. No. 2.
No. 21B	U.S. No. 3.
No. 22A	U.S. No. 2.
No. 27	Lower limit U.S. No 2.
No. 29	Lower limit U.S. No 3.

Tomatoes, Growth Cracks

No. 33	Lower limit U.S. No. 3.
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FRESH FRUITS, VEGETABLES, NUTS AND SPECIALTY PRODUCTS: 2 X 2 SLIDES

(Slides not available but photos may be developed from them)

Apples, Russeting		Slides 111, 112, 113, 115, 118, and 119
111.....	Near upper limit U.S. No. 1 for Smooth Solid Russeting (both sides same apple).	
112.....	Near upper limit U.S. No. 1 for combination Smooth Solid and Net-like Russeting (both sides same apple).	
113.....	Lower limit U.S. Fancy for Smooth Net-like Russeting (both sides same apple).	
115.....	Lower limit U.S. No. 1 for combination Smooth Solid and Smooth Net-like Russeting.	
118.....	Upper limit U.S. Utility for combination Smooth Solid and Smooth Net-like Russeting on Golden Delicious.	
119.....	Near upper limit U.S. Utility for combination Smooth Solid and Smooth Net-like Russeting.	
Apples, Stem Cavity Browning		Slides 120, 121, and 122
120.....	U.S. Utility for Stem Cavity Browning (indicating brown core) on McIntosh.	
121.....	Cull for Stem Cavity Browning (indicating brown core) on McIntosh.	
122.....	Cull for Stem Cavity Browning (indicating brown core) on McIntosh.	
Apples, Hail Marks		Slides 123 and 125 to 129
123.....	Either lower limit U.S. Fancy or U.S. No. 1 for Hail Marks (consider area only).	
125.....	U.S. Fancy or U.S. No. 1 for Hail Marks.	
126.....	Lower limit U.S. Fancy and U.S. No. 1 for Hail Marks.	
127.....	More than slightly depressed – U.S. Utility for Hail Marks.	
128.....	Both lower limit U.S. No. 1 and U.S. Fancy.	
129.....	Right: U.S. Utility, left: U.S. Fancy or U.S. No. 1.	
Apples, Invisible Watercore		Slides 297 to 302
297.....	Invisible Watercore: 4 separate apples – none damaged.	
298.....	Invisible Watercore: 4 separate apples – none damaged.	
299.....	Invisible Watercore: 4 separate apples – none damaged.	
300.....	Invisible Watercore: 4 separate apples – lower left damaged, other 3 not damaged.	
301.....	Invisible Watercore: 4 separate apples – all damaged.	
302.....	Invisible Watercore: 4 separate apples – all damaged.	
Apples, Color		Slides 303 to 306 and 420
303.....	Red Delicious color: Small area of good red, stripes of compensating color, and areas of no color.	
304.....	Red Delicious color: Streaks of compensating color.	
305.....	Red Delicious color: Small area of good red, stripes of compensating color, and areas of no color.	
306.....	Red Delicious color: Streaks of compensating color, no good red.	

420.....	Red Delicious color: Few spots good red; most stripes are compensating color; some faded stripes are on color.
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Apples, Shape

Slides 307 and 308

307.....	Upper limit U.S. Utility on Red Delicious.
308.....	Upper limit U.S. Utility on Red Delicious.

Apples, Various Defects

Slides 116, 409 to 418, 421, 422, 426, and 427

116.....	ID only: Red Banded Leaf Roller.
409.....	Johnathan Spot.
410.....	Frost Injury.
411.....	Active Apple Scab (not Storage Scab).
412.....	Bitter Pit.
413.....	Soft Scald.
414.....	Cedar Rust.
415.....	Scald.
416.....	Internal Breakdown following Watercore.
417.....	Johnathan Spot.
418.....	Apple Maggot Injury.
421.....	Bull's Eye Rot in initial stages.
422.....	Bull's Eye Rot in advanced stages.
426.....	Moldy enlarged seed cavity – not injured.
427.....	Moldy enlarged seed cavity – serious damage.

Apples for Processing

Slides 1 through 14 - Training Series

Cabbage for Processing

Slide 108.....	Tipburn.
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Cantaloups, Netting

Slides 247 to 251

247.....	Lower limit Well Netted.
248.....	Lower limit Well netted. Ground spot shows some netting. Both sides same melon.
249.....	Lower limit Fairly Well Netted (both sides same melon).
250.....	Well Netted (Edisto variety).
251.....	Fairly Well Netted (Edisto variety).

Cantaloups, Various Defects

Slides 252 to 256

252.....	Damage by Scarring (both sides same melon).
253.....	Surface Mold in stem scar. Pass at destination if no decay.
254.....	Lower limit U.S. No. 1 at destination for Surface Mold. Green sutures do not materially affect appearance.

255.....	Serious damage by Watersoaked Rind.
256.....	Serious damage by Watersoaked Rind and Stem End Cracks.

Cucumbers, Shape

Slides 215 to 222

215.....	Both lower limit U.S. No. 2 for shape.
216.....	Shape: Top-lower limit U.S. No. 1. Center-upper limit U.S. No. 2. Bottom-U.S. No. 2.
217.....	Shape: Top-upper limit U.S. No. 2. Center-U.S. No. 2. Bottom-lower limit U.S. No. 1.
218.....	All lower limit U.S. No. 2 for shape.
219.....	Shape: Top-upper limit U.S. No. 2. Bottom-cull.
220.....	Shape: Top-lower limit U.S. Fancy. Center-upper limit U.S. No. 1. Bottom-upper limit U.S. No. 2.
221.....	Shape: Top-lower limit U.S. No. 2. Center-upper limit U.S. No. 2. Bottom-U.S. No. 1.
222.....	All U.S. No. 1 for shape.

Grapefruit, Defects

Slides 93, 94, 179, 180, and 183 to 190

93.....	Melanose: Upper left-U.S. No. 1. Upper right-U.S. No. 1 Russet. Bottom-U.S. No. 2 (not U.S. No. 1 account Caked Melanose).
94.....	Discoloration: Upper right-U.S. No. 2 account pattern (subject to restriction on area). Other 2-U.S. No. 1 Russet.
179.....	Both U.S. No. 1 for color.
180.....	U.S. No. 2 for Caked Melanose.
183.....	Lower limit U.S. No. 2 for discoloration with pitting.
184.....	U.S. No. 2 (both sides same fruit) for Green Spots.
185.....	U.S. No. 2 (both sides same fruit) for Green Spots.
186.....	U.S. No. 2 (both sides same fruit) for color and Green Spots.
187.....	Both U.S. No. 1 Russet for discoloration (all discoloration visible).
188.....	Both U.S. No. 2 for hard to rough scarring.
198.....	U.S. No. 1 Bronze for Rust Mite (discoloration).
190.....	Upper limit U.S. No. 3 for Buckskin.

Limes, White Fly

Slides 103 and 104

103.....	All lower limit U.S. No. 1 for White Fly Discoloration.
104.....	All lower limit U.S. No. 2 for White Fly Discoloration

Nectarines, Defects

Slides 191 and 193 to 199

191.....	Rough Russeting on Early LeGrand.
193.....	Smooth Solid Russeting on Late LeGrand.
194.....	Rough Russeting at blossom end and Speckling at center of fruit on Early LeGrand.
195.....	Damaged by excessive Smooth Solid and Rough Russeting, and deep Growth Crack on Late LeGrand.
196.....	Left-damaged by Staining. Right-showing Rough Russeting. Both on Early LeGrand.
197.....	Left-appearance not materially affected for Staining. Right-damaged (materially affecting appearance) by Staining. Both Early LeGrand.

198.....	Speckling on Sunrise.
199.....	Appearance not materially affecting appearance by Staining on Sunrise.
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Onions	Slides 133 and 1 through 39
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133.....	Permissible shapes for Babosa Grano
1 through 39.....	Training series.
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Oranges	Slides 95 and 96
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95.....	U.S. No. 3, serious damage by deep scar.
96.....	Damage by Scale (blotch exceeding area of 5/8" circle on 3" orange).
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Oranges, FL, Freezing Injury	Slides 174 to 178
<hr/>	
174.....	First cut to juice sacs.
175.....	First 1/4 inch cut permitted in U.S. No. 1.
176.....	Second 1/4 inch cut permitted as damage.
177.....	Mushy condition in center of fruit.
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Oranges, FL, Scarring	
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Slide 178.....	Left-U.S. No. 1 for scarring. Center-U.S. No. 1 for russetting. Right-U.S. No. 1 for scarring.
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Peaches, Defects	Slides 8 to 10, 14 to 24, 106, 132, 230 to 237, 263 to 265, 267 to 273, 275, 281, 285, and 286
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8.....	Left-U.S. No. 2 (ignore scab) for San Jose Scale. Right-U.S. No. 1 (aggregate 1/4" circle) for San Jose Scale.
9.....	Both culls for Scab.
10.....	Lower limit U.S. No. 1 for enlarged seam (for varieties characteristically having raised seams).
14.....	Score against all grades for Immature.
15.....	Oriental Peach Moth (exaggerated).
16.....	Curculio (hole exaggerated). Show yellow color characteristic of injury. Score against all grades.
17.....	Score against all grades for Curculio injury.
18.....	Upper two-seriously damaged by Sprayburn. Lower-damage by Sprayburn.
19.....	Left-light scar exceeding 1/2" area. Right-not light colored for Scarring.
20.....	Left-serious damage by scarring. Right-damage by scarring.
21.....	Left-damage by Surface Hail Injury (area exceeds 1/4" circle). Right-not damaged by Surface Hail Injury (no depth).
22.....	Damage by Deep Hail Injury.
23.....	Left-serious damage by Deep Hail Injury. Right-damage by Deep Hail Injury.
24.....	Cold Damage (scored on appearance). Cut doubtful spots to see if

	flesh affected.
106.....	Left-Not U.S. No. 1. Damaged by Bacterial Spot. Right-lower limit U.S. No. 1.
132.....	Left-upper limit for U.S. No. 2 and Right-U.S. No. 2. Both for shape (Duke of Georgia, Merrill Gem, or similar varieties).
230.....	U.S. No. 2 for Split Pit.
231.....	Lower limit U.S. No. 1 for Spray Injury (Sulphur Burn).
232.....	U.S. No. 2 for Hail Damage (more than 1/4")
233.....	U.S. No. 2 for Hail Damage (deep).
234.....	Both photos U.S. No. 1 for Scab (left photo near lower limit).
235.....	Left-U.S. No. 2 (damage account area) for Scab. Right-cull (serious damage account cracks).
236.....	U.S. No. 2 for Bacterial Spot (cracked).
237.....	Left-U.S. No. 2 and right-cull for Bacterial Spot (cracked).
263.....	U.S. No. 2 for Smooth Scar (over 1/2" diameter).
426.....	Near lower limit U.S. No. 1 for Smooth Scar (approximately 1/2" in diameter).
265.....	U.S. No. 2 for Split Pit (over 1/16" but less than 1/16" in width).
267.....	Lower limit U.S. No. 2 for Split Pit ((3/16" in width).
268.....	Cull for Split Pit (slightly over 3/16" in width).
269.....	U.S. No. 1 for Split Pit (visible portion less than 1/16" in width).
270.....	Cull for Split Pit (stem missing, over 3/16" in width).
271.....	U.S. No. 2 for Scab (over 3/8" aggregate area).
272.....	U.S. No. 2 for San Jose Scale (no scale present and spots aggregate less than 1/2" in diameter, but materially detracts from appearance).
273.....	Lower limit U.S. No. 1 for Hail Scar (healed, shallow, 1/4" in diameter).
275.....	Cull for Oriental Moth (serious damage to internal flesh).
281.....	U.S. No. 2 for Bruise (1/2" in diameter, 1/4" in depth).
285.....	U.S. No. 1 for Bruise (less than 1/2" in diameter, less than 3/16" in depth).
286.....	Lower limit U.S. No. 1 for Bruise (1/2" in diameter, 3/16" in depth).

Peanuts

Slides 423 to 425

423.....	Spotted Flesh Discoloration on peanut kernels. Pass numbers 2 through 5. Score numbers 7, 8, and 12 as damaged. Remainder "minor defects."
424.....	Top row-not raisins and bottom row-raisins for farmers' stock.
425.....	Adhering dirt on peanut kernels. Pass numbers 1 through 4. Score numbers 8 and 10 as damaged. Remainder "minor defects."

Peanuts, Safety Slide Series

Slides 1 through 27.....	Safety series.
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Peanuts, Sampling and Grading Series

Slides 1 through 38.....	Sampling series.
Slides 1 through 69.....	Grading series.

Pears, Defects	Slides 134, 135, and 258 to 260
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134.....	Thinly scattered Pear Psylla.
135.....	A-moderately scattered and B-heavily concentrated Pear Psylla.
258.....	U.S. No. 2 (not a limit) for Lenticel Russeting on Bartlett.
259.....	Lower limit U.S. No. 2 for Sprayburn, Aphid Injury, or Pear Psylla on Bartlett.
260.....	Cull for combination of slightly rough and rough russeting on Bartlett (both sides same pear).

Pears, Russeting	Slides 238 to 242
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238.....	Lower limit U.S. No. 2 for thick (not rough) Anjou Russeting (both sides same pear).
239.....	Lower limit U.S. No. 2 for combination slightly rough and slightly frogging Anjou Russeting (both sides same pear).
240.....	Lower limit U.S. No. 2 for thick Anjou Russeting (both sides same pear).
241.....	Upper limit U.S. No. 2 for combination of smooth solid and slightly rough Anjou Russeting (both sides same pear).
242.....	U.S. No. 2 (not a limit) for thick Anjou Russeting and limb scratches aggregating more than 3/4" (both sides same pear).

Pears, Shape	Slides 244 to 246
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244.....	Lower limit U.S. No. 1 on Anjou.
245.....	Lower limit U.S. No. 1 on Anjou.
246.....	Lower limit U.S. No. 1 on Anjou.

Plums, Scarring	
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Slide 107.....	Both patterns considered scarring.
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Sweetpotatoes	228 and 229
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228.....	ID only: Cucumber Beetle Injury.
229.....	ID only: Cucumber Beetle Injury.

Tomatoes, Defects	100 to 102, 223, and 224
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100.....	ID only: Alternaria Rot at stem scar.
101.....	Ghost Spot: Not U.S. No. 1.
102.....	Hollow Stem: Not U.S. No. 1. Both damaged by Hollow Stem.
223.....	ID only: Bacterial Spot.
224.....	Bacterial Spot and Scar: Lower U.S. No. 1.

Tomatoes (Greenhouse), Shape**Slides 1 to 11**

1.....	U.S. No. 1: Maximum allowed for Fairly Well Formed.
2.....	U.S. No. 1: Fairly Well Formed.
3.....	U.S. No. 2: Reasonably Well Formed.
4.....	U.S. No. 2: Reasonably Well Formed.
5.....	U.S. No. 2: Reasonably Well Formed.
6.....	U.S. No. 2: Maximum allowed for Reasonably Well Formed.
7.....	U.S. No. 2: Maximum allowed for Reasonably Well Formed.
8.....	Cull.
9.....	Cull.
10.....	Cull.
11.....	Cull.

Tomatoes for Processing

Slides 310 to 386.....	Sequence on color evaluation inspection, including A-1 to A-9 (Agtron Colorimeter).
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Watermelons, Defects**Slides 44 to 52, 54, 56 to 64, 206 to 211, and 213**

44.....	U.S. No. 2, all damaged by Hail Injury.
45.....	Left: U.S. No. 2, damaged by Scarring; Right: U.S. No. 2, damaged by Hail.
46.....	Rind Worm Injury: Left: Upper limit U.S. No. 2 (damaged); Right: Cull (seriously damaged).
47.....	Whiteheart showing characteristic ridging (see Slide 49).
48.....	Whiteheart showing characteristic ridging (see slide 49).
49.....	Whiteheart scorable against all grades (note ridging, slides 47 & 48).
50.....	Whiteheart: Cull.
51.....	Whiteheart: Slightly affected at end but meets U.S. No. 1 if sufficient red color.
52.....	Immature showing external indication.
54.....	Immature showing external indication.
56.....	Hollow Heart showing external indication (see slide 57).
57.....	Hollow Heart: Cull (see slide 56).
58.....	Hollow Hear showing external indication (see slide 59).
59.....	Hollow Heart: Cull (see slide 58).
60.....	Damaged by Sunburn (30 pound melon).
61.....	Sunscald: Cull.
62.....	ID only: Decay following Sunburn.
63.....	ID only: Anthracnose.
64.....	Not Anthracnose: Note absence of pitting. Score on appearance.
206.....	Lower limit U.S. No. 1 for Rind Worm Injury on Charleston Gray.
207.....	U.S. No. 1 for Scarring on Charleston Gray.
208.....	U.S. No. 1 for Scarring on Charleston Gray.
209.....	Hollow Heart showing external indication (U.S. No. 1 for shape).
210.....	U.S. No. 2 for Hollow Heart on Charleston Gray.
211.....	U.S. No. 2, damaged by Rind Worm.
213.....	Immature showing external indication on Charleston Gray.

Watermelons, Shape	40 to 42, 65, and 212
40	ID only: Illustration of mixed varieties
41	Lower limit U.S. No. 2 for shape on Long Type.
42	Long Type: Left: Upper limit U.S. No. 2, Center: U.S. No. 2, Right: Lower limit U.S. No. 1.
65	Upper limit U.S. No. 2.
212	Lower Limit U.S. No. 1 on Charleston Gray and similar varieties.

**FRESH CITRUS: 2 X 2 SLIDES OF USDA
VISUAL AID CIT-(FL)-L-1 FEBRUARY
1973**

(Slides not available but photos may be developed from them)

FL Oranges/Tangelos, Color	Slides 1 and 2
1.....	Fairly Well Colored.
2.....	Reasonably Well Colored
FL Oranges/Tangelos, Texture	Slides 3 and 4
3.....	Fairly Smooth.
4.....	Slightly Rough.
FL Oranges/Tangelos, Varietal Characteristics	Slides 5 to 16
5.....	Valencia (Late Type).
6.....	Valencia (Late Type) – cut view.
7.....	Pineapple (Midseason Type).
8.....	Pineapple (Midseason Type) – cut view.
9.....	Hamlin (Early Type).
10.....	Hamlin (Early Type) – cut view.
11.....	Minneola (Tangelo).
12.....	Minneola (Tangelo) – cut view.
13.....	Orlando (Tangelo).
14.....	Orlando (Tangelo) – cut view.
15.....	Navel.
16.....	Navel – cut view.
FL Oranges/Tangelos, Shape	Slides 17 to 20
17.....	Well Formed.
18.....	Well Formed.
19.....	Slightly Misshapen.
20.....	Misshapen.
FL Oranges/Tangelos, Discoloration	Slides 21 to 24
21.....	Superficial Scars.
22.....	Superficial Scars.
23.....	Rust Mite.
24.....	Speck Type Melanose.
FL Oranges/Tangelos, Free From Defects	Slides 25 to 28
25.....	Cuts not healed.
26.....	Buckskin.
27.....	Bruises – cut view.
28.....	Growth Crack.

FL Oranges/Tangelso, Decay**Slides 29 to 35**

29.....	Green Mold Rot.
30.....	Blue Mold Rot.
31.....	Sour Rot.
32.....	Brown Rot.
33.....	Side Rot.
34.....	Stem-end Rot.
35.....	Black Rot.

FL Oranges/Tangelos, Defects**Slides 36 to 39, 41 to 49, and 51 to 74**

36.....	Cake Melanose – maximum allowed for U.S. No. 1.
37.....	Cake Melanose – maximum allowed for U.S. No. 2.
39.....	Creasing – maximum allowed for U.S. No. 1.
41.....	Creasing – maximum allowed for U.S. No. 2.
42.....	Green Spots – U.S. No. 3.
43.....	Hail – U.S. No. 1.
44.....	Hail – maximum allowed for U.S. No. 2.
45.....	Hail – U.S. No. 3.
46.....	Oil Spots – maximum allowed for U.S. No. 1.
47.....	Oil Spots – maximum allowed for U.S. No. 2.
48.....	Scab – maximum allowed for U.S. No. 1.
49.....	Scab – maximum allowed for U.S. No. 2.
51.....	Scars – U.S. No. 3.
52.....	Scars – maximum allowed for U.S. No. 2.
53.....	Scars – U.S. No. 3.
54.....	Scars – maximum allowed for U.S. No. 1.
55.....	Scars – maximum allowed for U.S. No. 2.
56.....	Scars – maximum allowed for U.S. No. 1.
57.....	Scars – maximum allowed for U.S. No. 1.
58.....	Scale – maximum allowed for U.S. No. 1.
59.....	Scale – maximum allowed for U.S. No. 2.
60.....	Skin Breakdown – maximum allowed for U.S. No. 1.
61.....	Skin Breakdown – maximum allowed for U.S. No. 2.
62.....	Skin breakdown – U.S. No. 3.
63.....	Sprayburn – maximum allowed for U.S. No. 1.
64.....	Sprayburn – maximum allowed for U.S. No. 2.
65.....	Sunburn – maximum allowed for U.S. No. 2.
66.....	Sunburn – maximum allowed for U.S. No. 2 (slide 65 peeled view).
67.....	Split, rough, or protruding navel – maximum allowed for U.S. No. 1.
68.....	Split, rough, or protruding navel – maximum allowed for U.S. No. 1.
69.....	Thorn Scratches – maximum allowed for U.S. No. 1.
70.....	Thorn Scratches – maximum allowed for U.S. No. 2.
71.....	Thorn Scratches – U.S. No. 3.
72.....	Pulled Stem – maximum allowed for U.S. No. 1.
73.....	Pulled Stem – maximum allowed for U.S. no. 2.
74.....	Pulled Stem – U.S. No. 3.

FL Grapefruit, Color

Slide 76.....	Fairly Well Colored.
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FL Grapefruit, Shape	Slides 76 and 76A
76.....	Well Formed.
76A.....	Well Formed.
FL Grapefruit, Varietal Characteristics	Slides 77 to 84
77.....	Seeded (White).
78.....	Seeded (White) – cut view.
79.....	Seeded (Pink).
80.....	Seeded (Pink) – cut view.
81.....	Seedless (White).
82.....	Seedless (White) – cut view.
83.....	Seedless (Pink).
84.....	Seedless (Pink) – cut view.
FL Grapefruit, Discoloration	Slides 85 to 88
85.....	Superficial Scars.
86.....	Speck Type Melanose – maximum allowed (entire surface).
87.....	Rust Mite.
88.....	Rust Mite.
FL Grapefruit, Defects	Slides 89 to 112
89.....	Buckskin – Maximum allowed for U.S. No. 1
90.....	Buckskin – Maximum allowed for U.S. No. 2.
91.....	Caked Melanose – maximum allowed for U.S. No. 2.
92.....	Hail – maximum allowed for U.S. No. 1.
93.....	Hail – maximum allowed for U.S. No. 2.
94.....	Hail – U.S. No. 3.
95.....	Oil Spots – Maximum allowed for U.S. No. 1.
96.....	Oil Spots – maximum allowed for U.S. No. 2.
97.....	Oil Spots – U.S. No. 3.
98.....	Scale, Ring – maximum allowed for U.S. No. 1.
99.....	Scale, Blotch – maximum allowed for U.S. No. 2.
100.....	Scars – maximum allowed for U.S. No. 1.
101.....	Scars – maximum allowed for U.S. No. 1.
102.....	Scars – maximum allowed for U.S. No. 2.
103.....	Scars – maximum allowed for U.S. No. 2.
104.....	Skin Breakdown – maximum allowed for U.S. No. 1.
105.....	Skin Breakdown – maximum allowed for U.S. No. 2.
106.....	Sprayburn – maximum allowed for U.S. No. 2.
107.....	Thorn Scratches – maximum allowed for U.S. No. 2.
108.....	Sunburn – Maximum allowed for U.S. no. 1.
109.....	Sunburn – maximum allowed for U.S. No. 1 (slide 108 peeled view).
110.....	Sunburn – maximum allowed for U.S. No. 2.
111.....	Sunburn – maximum allowed for U.S. no. 2 (slide 110 peeled view).
112.....	Sprouting – cut view.

FL Tangerines, Shape		Slides 113 to 115
113.....	Well Formed.	
114.....	Fairly Well Formed.	
115.....	Misshapen.	
FL Tangerines, Texture		
Slide 116.....	Not seriously lumpy.	
FL Tangerines, Firmness		
Slide 117.....	Badly Puffy.	
FL Tangerines, Color		Slides 118 and 119
118.....	Fairly Well Colored.	
119.....	Fairly Well Colored.	
FL Tangerines, Varietal Characteristics		Slides 120 to 125
120.....	Honey Tangerine.	
121.....	Honey Tangerine – cut view.	
122.....	Robinson.	
123.....	Robinson – cut view.	
124.....	Dancy.	
125.....	Dancy – cut view.	
FL Tangerines, Defects		Slides 126 to 129, 131 to 142, and 145 to 148
126.....	Buckskin – maximum allowed for U.S. No. 2.	
127.....	Green Spots – U.S. No. 3.	
128.....	Scale, Red – maximum allowed for U.S. No. 2.	
129.....	Scale, Purple – maximum allowed for U.S. No. 2.	
131.....	Oil Spots- maximum allowed for U.S. No. 1.	
132.....	Scars – maximum allowed for U.S. No. 1.	
133.....	Scars – maximum allowed for U.S. No. 1.	
134.....	Scars – maximum allowed for U.S. No. 1.	
135.....	Scars – maximum allowed for U.S. No. 2.	
136.....	Scars – maximum allowed for U.S. No. 2.	
137.....	Scars – U. S. No 3.	
138.....	Scars – U.S. No. 3.	
139.....	Skin Breakdown – maximum allowed for U.S. No. 2.	
140.....	Skin Breakdown – U.S. No. 3.	
141.....	Sunburn – maximum allowed for U.S. No. 2.	
142.....	Sunburn – maximum allowed for U.S. No. 2 (slide 141 peeled view).	
145.....	Unightly Discoloration – maximum allowed for U.S. No. 1.	
146.....	Unightly Discoloration – maximum allowed for U.S. No. 2.	

147	Hail – maximum allowed for U.S. No. 2.
148	Clipper Cut – cut unhealed.

**FRESH POTATOES: 2 X 2 SLIDES OF
OFFICIAL VISUAL AIDS FOR POTATOES
USDA VISUAL AID POT.-L-1 MAY 1998**

(Slides not available but photos may be developed from them)

Potatoes, Firmness	Slides 1 and 2
1.....	Not shriveled or flabby – maximum allowed for U.S. No. 1.
2.....	Not seriously shriveled or flabby – maximum allowed for U.S. No. 1.
Potatoes, Cleanness	Slides 3 to 10
3.....	Clean (dry) – maximum allowed.*
4.....	Clean (wet) – maximum allowed.*
4.....	Fairly Clean (dry) – maximum allowed.*
6.....	Fairly Clean (wet) – maximum allowed.*
7.....	Slightly Dirty (dry) – maximum allowed.*
8.....	Slightly Dirty (wet) – maximum allowed.*
9.....	Not Seriously Damaged by Dirt – maximum allowed* for U.S. No. 2.
10.....	Not Seriously Damaged by Dirt – maximum allowed* for U.S. No. 2.
	*Equal amount or less allowed on opposite side.
Potatoes, Shape	Slides 11 to 22
11.....	Well Shaped – maximum allowed.
12.....	Well Shaped – maximum allowed.
13.....	Well Shaped – maximum allowed.
14.....	Fairly Well Shaped – maximum allowed for U.S. No. 1.
15.....	Fairly Well Shaped – maximum allowed for U.S. No. 1.
16.....	Fairly Well Shaped – maximum allowed for U.S. No. 1.
17.....	Fairly Well Shaped – maximum allowed for U.S. No. 1.
18.....	Not Seriously Misshapen – maximum allowed for U.S. No. 2.
19.....	Not Seriously Misshapen – maximum allowed for U.S. No. 2.
20.....	Not Seriously Misshapen – maximum allowed for U.S. No. 2.
21.....	Not Seriously Misshapen – maximum allowed for U.S. No. 2.
22.....	Not Seriously Misshapen – maximum allowed for U.S. No. 2.
Potatoes, Skinning	Slides 23 to 26
23.....	Practically No Skinning.
24.....	Slightly Skinned.
25.....	Moderately Skinned.
26.....	Badly Skinned.
Potatoes, Free From Defects	Slides 27 to 39
27.....	Blackheart.
28.....	Blackheart.
29.....	Freezing injury (dry type).
30.....	Freezing Injury (internal).
31.....	Freezing injury (wet/leaking).
32.....	Late Blight Tuber Rot
33.....	Late Blight Tuber Rot.
34.....	Late Blight Tuber Rot.
35.....	Bacterial Ring Rot.

36.....	Bacterial Ring Rot.
37.....	Southern bacterial Wilt (Brown Rot).
38.....	Southern Bacterial Wilt (Brown Rot).
39.....	Bacterial Soft Rot (Slimy Soft Rot).

Potatoes, Identification Only

Slides 40 to 93 (including 47A)

40.....	Alternaria Tuber Rot (Early Blight).
41.....	Alternaria Tuber Rot (Early Blight).
42.....	Blackleg.
43.....	Blackleg.
44.....	Charcoal Rot.
45.....	Charcoal Rot.
46.....	Corky Ring Spot.
47.....	Corky Ring Spot.
47A.....	Corky Ring Spot.
48.....	Enlarged Lenticels (coalesced).
49.....	Enlarged Lenticels (raised).
50.....	Flea Beetle.
51.....	Fusarium Tuber Rot.
52.....	Fusarium Tuber Rot.
53.....	Glassy End Rot (Jelly End Rot).
54.....	Grass.
55.....	Greening.
56.....	Grub.
57.....	Grub.
58.....	Heat or Water Damage.
59.....	Heat or Water Damage.
60.....	Ingrown Sprouts.
61.....	Ingrown Sprouts – cut view.
62.....	Internal Black Spot.
63.....	Internal Brown Spot.
64.....	Internal Brown Spot.
65.....	Leak.
66.....	Leak.
67.....	Mahogany Browning.
68.....	Mahogany Browning.
69.....	Nematode.
70.....	Net Necrosis.
71.....	Net Necrosis.
72.....	Pink Eye.
73.....	Pink Eye – cut view.
74.....	Pink Eye.
75.....	Pink Rot.
76.....	Pink Rot.
77.....	Rodent Damage.
78.....	Scab, Surface.
79.....	Sclerotium Rot.
80.....	Sclerotium Rot – cut view.
81.....	Silver Scurf.
82.....	Silver Scurf.
83.....	Skin Spots.
84.....	Skin Spots.
85.....	Stem End Browning.
86.....	Sunburn.
87.....	Sunburn – cut view.

88.....	Tuber Moth.
89.....	Tuber Moth – cut view.
90.....	Vascular Discoloration.
91.....	Vascular Discoloration.
92.....	Worm Damage.
93.....	Worm Damage – cut view.

Potatoes, Aircracks	Slides 94 to 96
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94.....	Maximum allowed for U.S. No. 1.
95.....	Maximum allowed for U.S. No. 1.
96.....	Maximum allowed for U.S. No. 2.

Potatoes, Bruises	Slides 97 to 99
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97.....	Maximum allowed for U.S. No. 1.
98.....	Maximum allowed for U.S. No. 2.
99.....	Maximum allowed for U.S. No. 2.

Potatoes, Cuts	Slides 100 and 101
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100.....	Maximum allowed for U.S. No. 1.
101.....	Maximum allowed for U.S. No. 1.

Potatoes, Enlarged Lenticels	Slides 105 to 107
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105.....	Maximum allowed* for U.S. No. 1.
106.....	Maximum allowed* for U.S. No. 1.
107.....	Maximum allowed* for U.S. No. 2.

*Equal amount or less allowed on opposite side.

Potatoes, External Discoloration	Slides 108 to 113
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108.....	Maximum allowed for U.S. No. 1.
109.....	Maximum allowed for U.S. No. 1.
110.....	Maximum allowed* for U.S. No. 1.
111.....	Maximum allowed* for U.S. No. 1.
112.....	Maximum allowed* for U.S. No. 2.
113.....	Maximum allowed* for U.S. No. 2.

*Equal amount or less allowed on opposite side.

Potatoes, Folded End	Slides 114 to 117
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114.....	Maximum allowed for U.S. No. 1.
115.....	Maximum allowed for U.S. No. 1.
116.....	Maximum allowed for U.S. No. 2.
117.....	Maximum allowed for U.S. No. 2.

Potatoes, Growth Cracks	Slides 118 to 120
118.....	Maximum allowed for U.S. No. 1.
119.....	Maximum allowed for U.S. No. 2.
120.....	Maximum allowed for U.S. No. 2.
Potatoes, Hollow Heart	Slides 121 and 122
121.....	Maximum allowed for U.S. No. 1.
122.....	Maximum allowed for U.S. No. 2.
Potatoes, Internal Discoloration	Slides 123 and 124
123.....	Maximum allowed for U.S. No. 1.
124.....	Maximum allowed for U.S. No. 2.
Potatoes, Rhizoctonia	Slides 125 and 126
125.....	Maximum allowed* for U.S. No. 1.
126.....	Maximum allowed* for U.S. No. 1.
	*Equal amount or less allowed on opposite side.
Potatoes, Russeting	Slides 127 and 128 (for non-russet type varieties)
127.....	Maximum allowed* for U.S. No. 1.
128.....	Maximum allowed* for U.S. No. 1.
	*Equal amount or less allowed on opposite side.
Potatoes, Scab (Pitted)	Slides 129 and 130
129.....	Maximum allowed for U.S. No. 1.
130.....	Maximum allowed for U.S. No. 2.
Potatoes, Second Growth	Slides 131 and 132
131.....	Maximum allowed for U.S. No. 1.
132.....	Maximum allowed for U.S. No. 1.
Potatoes, Skin Checks	Slides 134 and 135
134.....	Maximum allowed* for U.S. No. 1.
135.....	Maximum allowed* for U.S. No. 2.
	*Equal amount or less allowed on opposite side.

Potatoes, Sprouts (Clusters)

Slide 136..... Maximum allowed for U.S. No. 1.

Potatoes, Flattened or Depressed Areas

Slide 137..... Maximum allowed for U.S. No. 1.

Potatoes, Sunken Discolored Areas

Slide 138..... Maximum allowed for U.S. No. 2.

Potatoes, Surface Cracks**Slides 139 to 142**

139..... Maximum allowed for U.S. No. 1.

140..... Maximum allowed for U.S. No. 1.

141..... Maximum allowed* for U.S. No. 2.

142..... Maximum allowed for U.S. No. 2.

*Equal amount or less allowed on opposite side.

Potatoes, Scab (Russet)

Slide 143..... Maximum allowed* for U.S. No. 1.

*Equal amount or less allowed on opposite side.

PROCESSED FRUITS, VEGETABLES AND SPECIALTY PRODUCTS

Color Standards



Apple Butter (August 2002)

USDA color standards in the form of two bi-colored laminated vinyl chips. The USDA canned apple butter color standards represent minimum color requirements as specified in the U.S. Standards for Grades of Canned Apple Butter, U.S. Grade "A" and "C".



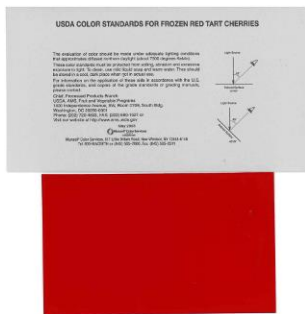
Beans, Canned Lima (August 2005)

USDA color standards in the form of a bi-colored laminated vinyl chip. Represents both lima bean green and lima bean white. For use in classifying color as specified in the U.S. Standards for Grades of Canned Lima Beans.



Beans, Frozen Lima (June 2002)

USDA color standards in the form of a bi-colored laminated vinyl chip. Represents both lima bean green and lima bean white (thin-seeded). For use in classifying color as specified in the U.S. Standards for Grades of Frozen Lima Beans, U.S. Grade "A", "B", and "C".



Cherries, Frozen Red Tart (May 2003)

USDA color standard in the form of a laminated vinyl chip. The USDA frozen red tart cherries color standard represents minimum red color requirements as specified in the U.S. Standards for Grades of Frozen Red Tart Pitted Cherries, U.S. Grade "A".



Honey (September 2003)

Two metal comparator racks with plastic color standards representing water white, extra white, white, extra light amber, light amber, and amber as specified in the U.S. Standards for Grades of Honey. Sample bottles are included.



Molasses, Sugarcane (September 2003)

Metal comparator rack with plastic color standards representing No. 1, No. 2, and No. 3 as specified in the U.S. Standards for Grades of Molasses. Sample bottles are included.



Mushrooms, Canned (June 2002)

USDA color standards in plastic 2x3 inch color chips. Colors 1, 2, 3, 4, and 5 representing cap and gill color, applicable to the U.S. Standards for Grades of Canned Mushrooms, white or cream type, U.S. Grade "A" and "B." Available as a set.



Olives, Canned Ripe (March 1994)

USDA color standards in the form of a bi-colored laminated vinyl chip. Depicts the two appropriate USDA composite color standards. For use in classifying color for canned ripe olives.



Orange Juice – Processed (1983 edition)

USDA color standards in the form of six plastic tubes. The USDA colors 1, 2, 3, 4, 5, and 6 represent processed orange juice points of reference corresponding to the color scores 40 points through 36 points, respectively. The six tubes are available as a set in the 1983 edition.



Peaches, Canned Clingstone (January 2011)

USDA color standards in laminated tri-color vinyl chip. Applicable to the U.S. Standards for Grades of Canned Clingstone Peaches, U.S. Grade "A", "B", and "C".



Peanut Butter (June 2002)

USDA color standards in plastic 2x3 inch color chips. Colors 1, 2, 3, and 4 are available as a set as specified in the U.S. Standards for Grades of Peanut Butter, U.S. Grade "A" and "B".



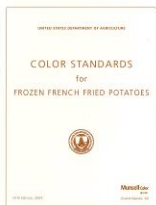
Peas, Frozen (April 2000)

USDA color standards in the form of six laminated vinyl chips. Applicable to the U.S. Standards for Grades of Frozen Peas. Colors 1, 2, 3, 4, 5, and 6 are available as a set.



Pimientos, Canned (May 1996 and June 2003)

USDA color standards in the form of a bi-colored laminated vinyl chip. The color standards represent both pimiento red and pimiento reddish-yellow as specified in the U.S. Standards for Grades of Canned Pimientos.



Potatoes, Frozen French Fried (5th edition 2007)

USDA color standards in the form of a printed one –page leaflet. This leaflet depicts a series of seven French fried potato units in graduated shades of ‘fry’ color.



Pumpkin/Squash, Canned (November 2002)

USDA color standards in the form of a bi-colored laminated vinyl chip. The USDA canned pumpkin and canned squash color standards represent minimum color requirements as specified in the U.S. Standards for Grades of Canned Pumpkin and U.S. Standards for Grades of Canned Squash, U.S. Grade “A” and “C”.



Sauerkraut, Canned (October 1957 edition)

USDA color standards for canned sauerkraut, in the form of textured plastic disks, include limits for the predominating characteristic color and brightness of the product. The slightly greenish color in U.S. Grade B is represented by No. 1B (Serial No. 12150) and the darkest limit of cream to light straw in U.S. Grade B is represented by No. 2 (Serial No. 12151).



Tomatoes, Canned (September 2002)

USDA color standard in the form of a laminated vinyl chip. The USDA canned tomatoes color standard represents minimum red color requirements as specified in the U.S. Standards for Grades of Canned Tomatoes, U.S. Grade “C” or better.



Tomato Products (December 2000)

Tomato Juice, Tomato Puree, Tomato Paste, and Tomato Catsup: USDA color standards in the form of two bi-colored laminated vinyl chips. Represents selected minimum red color for U.S. Standards for Grades of Tomato Juice, Tomato Paste, Tomato Puree, and Tomato Catsup for U.S. Grades “A” and “C”. A spinner is not required to use this version of the tomato products color standards.



Color standards that are no longer available, but still applicable:

1. **Sugarcane Sirup** (previously supplied by Virtis Company).
Use USDA color standards for honey, “White”, “Extra Light Amber,” and “Light Amber” for sugar cane sirup designations No. 1, No. 2, and No. 3, respectively.
2. **Sulphur Brined Cherries** (previously supplied by Munsell Color Services, X-Rite Inc., formerly GretagMacbeth).
3. **Canned Freestone Peaches** (previously supplied by Agtron Inc.)
4. **Tomato Products** (spinner disks, previously supplied by Munsell Color Services, X-Rite Inc.)
5. **Frozen Red Tart Cherries** (previously supplied by Agtron Inc.)

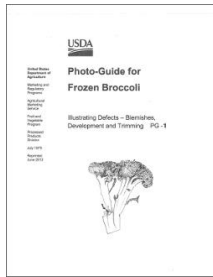
Photo Guides



Beans, Green & Wax (October 2001)

PG-2; Photo Guide for Frozen Green & Wax Beans depicting defects and character.





Broccoli, Frozen (reissued May 2012)

PG-1; Photo Guide for Frozen Broccoli illustrating defects, blemishes, development, and trimming.



Carrot, Frozen (April 2005)

PG-10; Photo Guide for Frozen Carrots illustrating color and defects.



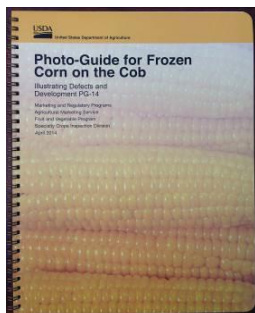
Corn, Canned & Frozen Whole Kernel (reissued September 2009 and January 2012)

PG-12; Photo Guide for classifying “cut” and “pulled” kernels canned and frozen whole kernel corn.



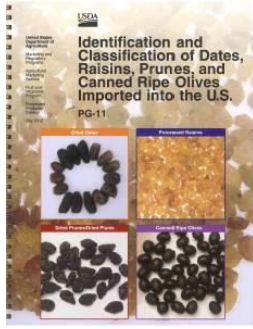
Corn, Canned & Frozen Whole Kernel (reissued September 2009 and September 2011)

PG-13; Interpretive guide illustrating discolored kernels or pieces of kernels in canned corn.



Corn on the Cob, Frozen (April 2014)

PG-14; Photo Guide for Frozen Corn on the Cob illustrating color and development.



Dates, Raisins, Prunes, and Canned Ripe Olives (July 2012)

PG-11; Photo Guide for identification and classification of dates, raisins, prunes, and canned ripe olives imported into the U.S.



Peanut Butter (reissued January 2008)

PG-4; Photo Guide for peanut butter illustrating dark particles in peanut butter.



Photo Guides that are no longer available, but still applicable:

1. **PG-3 Photo Guides for Frozen and Canned Carrots (applicable to canned carrots ONLY) (undated)**
2. **PG-5 Photo Guides for Frozen Squash, Summer Type (undated)**
3. **PG-9 Photo Guides for Classifying Defects in Canned Peaches (undated)**
4. **Photo Guides for Canned Apples and Frozen Apples (June 1969)**
5. **Visual Aids for Frozen Okra (October 1966)**