

UNITED STATES
DEPARTMENT OF
AGRICULTURE

AGRICULTURAL MARKETING SERVICE

FRUIT AND VEGETABLE PROGRAMS

FRESH PRODUCTS
BRANCH

DECEMBER 2004

OFFICIAL INVENTORY OF INSPECTION AIDS AND 2 X 2 SLIDES



FOREWORD

THE OFFICIAL PHOTO VISUAL AIDS AND 2X2 SLIDES LISTED IN THIS PUBLICATION HAVE BEEN DEVELOPED BY THE FRESH PRODUCTS BRANCH (FPB) OF THE FRUIT AND VEGETABLE PROGRAMS (FVP) OF THE AGRICULTURAL MARKETING SERVICE (AMS). THESE AIDS ARE FOR USE BY U.S. DEPARTMENT OF AGRICULTURE (USDA) LICENSED INSPECTORS FOR BOTH SHIPPING POINT AND MARKET INSPECTION PERSONNEL.

VISUAL AIDS AND SLIDES DEVELOPED BY FPB ARE INTENDED TO SERVE AS GUIDELINES TO ASSIST INSPECTORS IN THE ACCURATE AND UNIFORM APPLICATION OF THE U.S. STANDARDS FOR FRESH FRUITS, VEGETABLES, NUTS, AND MISCELLANEOUS PRODUCTS. SOME OF THESE VISUAL AIDS AND SLIDES ARE INTENDED FOR USE IN IDENTIFYING VARIETAL CHARACTERISTICS OR TYPE OF DEFECTS, WHILE OTHERS ARE INTENDED TO PROVIDE GUIDELINES FOR SCORING DEFECTS.

THESE VISUAL AIDS ARE AVAILABLE FOR PUBLIC EXAMINATION AND REVIEW IN THE HEADQUARTER OFFICE AT THE USDA, ROOM 1661-SOUTH BUILDING, WASHINGTON, D.C., IN MOST OF THE FIELD OFFICES OF THE FPB, OR UPON REQUEST OF ANY AUTHORIZED INSPECTOR. ANYONE WISHING TO EXAMINE ANY VISUAL AIDS MAY ARRANGE TO DO SO BY CONTACTING THE NEAREST INSPECTION OFFICE DURING REGULAR BUSINESS HOURS, OR THE STANDARDIZATION SECTION IN WASHINGTON, DC. (PHONE (202) 720-2185.)

THIS PUBLICATION SHOULD BE USED TO INVENTORY THE OFFICIAL PHOTO VISUAL AIDS AND 2X2 SLIDES ON HAND IN ANY INSPECTION OFFICE. ALL OFFICES ARE NOT REQUIRED TO HAVE ALL OF THE VISUAL AIDS AS THERE ARE SOME FIELD OFFICES THAT DO NOT INSPECT ALL COMMODITIES.

THE VISUAL AIDS LISTED ARE THE ONLY ONES OFFICIALLY RECOGNIZED. ANY VISUAL AIDS NOT LISTED HERE ARE EITHER OBSOLETE OR HAVE NOT BEEN APPROVED FOR USE. FIELD INSPECTORS ARE ENCOURAGED TO SUBMIT POSSIBLE VISUAL AIDS TO THE WASHINGTON, D.C. OFFICE FOR APPROVAL AND ADDITION TO THIS INVENTORY.

ORDERS SHOULD BE SENT TO:

USDA, AMS, F&VP, FPB STANDARDIZATION SECTION 1400 INDEPENDENCE AVE SW ROOM 1661-SOUTH BUILDING, STOP 0240 WASHINGTON, DC 20250-0240

DECEMBER 2004

THIS PUBLICATION IS SEPARATED INTO TWO PARTS, THE FIRST PART LISTS THE OFFICIAL MODELS AND PHOTO VISUAL AIDS, AND THE SECOND PART LISTS THE OFFICIAL 2X2 SLIDES.

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PART I

OFFICIAL VISUAL AIDS INVENTORY

SECTION ONE - FRESH FRUITS AND VEGETABLES

APPLES	
MODELS COLOR	
DA-2	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.
<i>SC-</i> 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	25% GOOD RED COLOR ON RED DELICIOUS, U.S. No. 1. (1971.)
APL-M-2	40% GOOD RED COLOR ON RED DELICIOUS, U.S. FANCY. (1971.)
APL-M-3	66% GOOD RED COLOR ON RED DELICIOUS, U.S. EXTRA FANCY.
	(1971.)

SHAPE	
WB-1	"FAIRLY WELL FORMED," LOWER LIMIT, WINESAP AND SIMILARLY
	SHAPED VARIETIES.
WB-2	"NOT SERIOUSLY DEFORMED," UPPER LIMIT, WINESAP AND SIMILAR
	VARIETIES.
WB-3	"NOT SERIOUSLY DEFORMED," LOWER LIMIT, WINESAP AND SIMILAR
	VARIETIES.
WB-4	"NOT SERIOUSLY DEFORMED," LOWER LIMIT, WINESAP AND SIMILAR
	VARIETIES.
WB-5	"WELL FORMED," LOWER LIMIT, WINESAP AND SIMILARLY SHAPED
	VARIETIES.
MS-2	"FAIRLY WELL FORMED," LOWER LIMIT, McINTOSH.
MS-3	"FAIRLY WELL FORMED," LOWER LIMIT, McINTOSH.
S-1	"FAIRLY WELL FORMED," LOWER LIMIT, McIntosh and similarly
	SHAPED VARIETIES.
DB-1	"FAIRLY WELL FORMED," LOWER LIMIT, DELICIOUS AND SIMILARLY
	SHAPED VARIETIES.
DB-2	"NOT SERIOUSLY DEFORMED," LOWER LIMIT, DELICIOUS AND
	SIMILARLY SHAPED VARIETIES.
DS-2	"FAIRLY WELL FORMED," LOWER LIMIT, DELICIOUS AND SIMILARLY
	SHAPED VARIETIES.
DS-3	"FAIRLY WELL FORMED," LOWER LIMIT, DELICIOUS.
DS-4	"NOT SERIOUSLY DEFORMED," UPPER LIMIT, DELICIOUS.
DS-5	"NOT SERIOUSLY DEFORMED," UPPER LIMIT, DELICIOUS.
DS-6	"WELL FORMED," DELICIOUS AND SIMILARLY SHAPED VARIETIES.

DEFECTS

K-1 LOWER LIMIT SIZE AND COLOR OF "KNOB" ALLOWED IN U.S. No. 1 AND

U.S. FANCY.

K-2 LOWER LIMIT SIZE AND COLOR OF "KNOB" ALLOWED IN U.S. UTILITY.

COLOR GUIDES

SET OF 8 COLORS TO ASSIST IN DESCRIBING GOLDEN DELICIOUS COLOR WHEN REQUESTED TO DO SO. (1962.)

COLOR PHOTOGRAPHS

APL-C-4/ MAXIMUM SMOOTH NETLIKE RUSSETING ALLOWED IN U.S. No. 1.

(1964.)

APL-C-6 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. (JANUARY 1966) 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. (JANUARY 1966.)

APL-C-8 SPRAY RESIDUE PHOTO ILLUSTRATING VARYING DEGREES OF SPRAY

RESIDUE. (XA-1013, XA-1016, XA-1021 AND XA-1022,

March 1962.)

APL-CP-2 SUNKEN DISCOLORED AREAS AROUND LENTICELS. (May 1975.)

APL-CP-3 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. February 1990.

APL-CP-3

(CONTINUED) EXCESSIVELY ROUGH OR BARK-LIKE RUSSETING IN CALYX BASIN OR

STEM CAVITY OF APPLES - U.S. UTILITY. FEBRUARY 1990.

APL-CP-4 BLOSSOM END ROT OF APPLES. MARCH 1990.

FOR IDENTIFICATION ONLY

APL-1-IDENT SCALD, SOFT SCALD, HAIL MARKS. FEBRUARY 1990.

APL-2-IDENT PEBBLING, SCAB, SCARS. FEBRUARY 1990.

APL-3-IDENT APPLE MAGGOT INJURY. FEBRUARY 1990.

APL-4-IDENT LEAF ROLLER INJURY, BLUE MOLD ROT. FEBRUARY 1990.

OFFICIAL VISUAL AIDS FOR APPLES UNITED STATES DEPARTMENT OF

AGRICULTURE AGRICULTURAL MARKETING SERVICE FRUIT AND VEGETABLE

PROGRAMS FRESH PRODUCTS BRANCH AUGUST 2002 (INCLUDES THE

FOLLOWING:)

APL-CC-1(A) RED DELICIOUS, EMPIRE AND RED ROME. AUGUST 2002.

APL-CC-1(B) WINESAP AND ROME. AUGUST 2002.

APL-CC-1(C) DELICIOUS. AUGUST 2002.

APL-CC-1(D) McIntosh and Courtland. August 2002.

APL-CC-1(E) JONATHAN, IDARED, STAYMAN AND YORK. AUGUST 2002.

ASPARAGUS

THE FOLLOWING PHOTOGRAPHS ARE IN THE ASPARAGUS SHIPPING POINT AND MARKET INSPECTION INSTRUCTIONS.

PHOTOGRAPHS

NO. 6 CLOSED AND SLIGHTLY SPREAD TIPS, ALLOWED IN U.S. NO. 1.

NOVEMBER 1994.

No. 7 Spreading tips. Not U.S. No. 1. November 1994.

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

NOVEMBER 1994.

NO. 11 NOT BADLY MISSHAPEN ASPARAGUS STALKS. PERMITTED IN

U.S. No. 2. NOVEMBER 1994.

No. 12 SPREADING TIPS. A - U.S. No. 1, U.S. STANDARDS FOR MARKET.

(B- IS LISTED UNDER PROCESSING, FEBRUARY 1991.)

No. 13 SPREADING TIPS. U.S. STANDARDS FOR MARKET AND U.S.

STANDARDS FOR PROCESSING. U.S. No. 2, LOWER LIMIT. DAMAGED

BY SPREADING, BUT NOT SERIOUSLY DAMAGED. FEBRUARY 1991.

AVOCADOS

COLOR PHOTOGRAPHS

FOR IDENTIFICATION ONLY

INCLUDES COLOR PHOTOGRAPH AND PARAGRAPH DESCRIBING VARIETAL CHARACTERISTICS.

BOOTH 1. (7/76.)

Воотн 7.

Воотн 8.

CATALINA.

CHOQUETTE. (7/76.)

DR. DUPUIS #2. (7/76.)

HALL.

HICKSON.

LULA. (7/76.)

MONROE. (7/76.)

Nadir. (7/76.)

POLLOCK. (7/76.)

SIMMONDS. (7/76.)

TRAPP.

WALDIN.

BANANAS

RIPENING GUIDE

BAN-C-1 COLOR INDEX NUMBERS FOR BANANA RIPENING. SEPTEMBER 2001.

BEANS, LIMA

PHOTOGRAPHS

PHOTO NO. 1 U.S. No. 1. FILLING OF PODS AND DEVELOPMENT OF SEEDS.

JULY 1990.

PHOTO NO. 2 U.S. NO. 2 AND CULL. FILLING OF PODS AND DEVELOPMENT OF SEEDS.

JULY 1990.

BEANS, SNAP

PHOTOGRAPHS

PHOTO NO. 1 SHAPE FOR U.S. FANCY. JULY 1990.

PHOTO NO. 2 Shape for U.S. No. 1. July 1990.

PHOTO NO. 3 SHAPE FOR U.S. NO. 2. JULY 1990.

BLUEBERRIES

COLOR PHOTOGRAPH

BLB-CP-1 CLUSTER, PULLED STEMS, ATTACHED STEMS, SHRIVELED, MUMMIFIED BERRIES, GREEN, PINK TO RED, BLUE. DECEMBER 2001.

BROCCOLI, ITALIAN SPROUTING

PHOTOGRAPHS

PHOTO NO. 1 FAIRLY COMPACT. AUGUST 1990.

PHOTO NO. 2 FAIRLY COMPACT. AUGUST 1990.

PHOTO No. 3 COMPACT. AUGUST 1990.

PHOTO NO. 4 NOT FAIRLY COMPACT. AUGUST 1990.

PHOTO NO. 5 NOT FAIRLY COMPACT. AUGUST 1990.

PHOTO NO. 6 COMPACT. AUGUST 1990.

FOR IDENTIFICATION ONLY

BRO-1-IDENT No color or varietal requirements, no defect. April 1997.

CABBAGE

COLOR PHOTOGRAPHS

CAB-CP-1 SEEDSTEMS. U.S. NO. 1 AND DAMAGE. MARCH 1990.

CAB-CP-1-A SEEDSTEMS. SERIOUS DAMAGE. MARCH 1990.

PHOTOGRAPHS

PHOTO NO. 1 WELL TRIMMED AND POORLY TRIMMED HEADS. AUGUST 1990.

PHOTO NO. 2 STEMS PROPERLY AND IMPROPERLY TRIMMED. AUGUST 1990.

PHOTO NO. 3 U.S. NO. 1 GRADE, LOWER LIMIT OF REASONABLE SOLIDITY FOR

SOUTHERN DOMESTIC Type. AUGUST 1990.

PHOTO NO. 4 OVERRIPE, SEEDSTEM AND BAD WORM INJURY. NONE OF THESE

HEADS U.S. NO. 1. AUGUST 1990.

CANTALOUPS

COLOR PHOTOGRAPHS

CANT-CP-1 COLOR PRINTS SHOWING U.S. NO. 1 NETTING REQUIREMENTS.

March 1990.

CANT-CP-1-A COLOR PRINTS SHOWING U.S. NO. 1 NETTING REQUIREMENTS.

March 1990.

CANT-CP-2 COLOR PRINTS SHOWING MAXIMUM GROUND SPOT. MARCH 1990.

CANT CP-2-A COLOR PRINTS SHOWING REQUIREMENTS FOR UNIFORM APPEARANCE.

March 1990.

CANT-CP-3 COLOR PRINTS SHOWING INSECT INJURY AND SUNKEN AREAS.

March 1990.

FOR IDENTIFICATION ONLY

CANT-1-IDENT FUSARIUM ROT, SCARRING. MARCH 1990.

CANT-2-IDENT SUNBURN, SUNSCALD, SCARRING. MARCH 1990.

CARROTS, BUNCHED

PHOTOGRAPHS

PHOTO NO. 1 SHAPE. U.S. NO. 1. AUGUST 1990.

PHOTO NO. 2 SHAPE, U.S. NO. 1. AUGUST 1990.

PHOTO NO. 3 SHAPE. NOT U.S. NO. 1. AUGUST 1990.

CARROTS, TOPPED

COLOR PHOTOGRAPHS

C-1 Showing shape and smoothness. August 1990.

C-1-A Showing shape and smoothness. August 1990.

CAR-CP-2 CHIPPED OR BROKEN CROWNS. U.S. No. 1. MARCH 1991.

CAULIFLOWER

PHOTOGRAPHS

PHOTO NO. 3 DAMAGED BY ENLARGED BRACTS. NOT U.S. NO. 1. SEPTEMBER 1990.

PHOTO NO. 4 ENLARGED BRACTS. U.S. NO. 1. SEPTEMBER 1990.

PHOTO NO. 5 ENLARGED BRACTS. U.S. NO. 1. SEPTEMBER 1990.

CELERY

COLOR PHOTOGRAPHS

FOR IDENTIFICATION ONLY

CEL-1-IDENT SEEDSTEM AND SUCKER. JULY 1992.

CEL-2-IDENT SEEDSTEM (CUT). JULY 1992.

CHERRIES, SWEET

MODELS

CHR-M-1 ILLUSTRATING SUTURE. U.S. No. 1, LOWER LIMIT. (1971.)

COLOR COMPARATOR

PL-1 MINIMUM COLOR FOR BINGS AND OTHER SIMILAR VARIETIES.

USDA. MARCH 1999.

COLOR PHOTOGRAPHS

CHR-CP-3 DEFECTS. APRIL 1990.

CHR-CP-2 PITTING. APRIL 1990.

CHR-CP-3-A DEFECTS. APRIL 1990.

FOR IDENTIFICATION ONLY

CHR-1-IDENT DEFECTS. MARCH 1990.

CITRUS

(THIS INCLUDES CITRUS FROM ALL STATES, BUT EXCLUDES LEMONS AND LIMES.)

COLOR PHOTOGRAPHS

CIT-(CA&AZ, SOOTY MOLD. SEPTEMBER 1989.

FLA&TX)-CP-1

CIT-(CA&AZ, SMUDGED DISCOLORATION. SEPTEMBER 1989.

FLA&TX)-CP-1-A

CIT-(FL)-L-1 LOOSE LEAF BINDER CONTAINING LITHOGRAPH PHOTOS FOR

IDENTIFICATION AND CLASSIFICATION OF VARIOUS DEFECTS.

(FEBRUARY 1973, THE JOHN HENRY COMPANY, COMMERCIAL

SUPPLIER) [NOT AVAILABLE].

GRAPEFRUIT

MODELS

COLOR (RESTRICTED DISTRIBUTION)

C-1 U.S. No. 1 FOR FLORIDA AND TEXAS. LOWER LIMIT COLOR

PERMITTED UNDER DEFINITION OF "FAIRLY WELL COLORED." (1955.)

DISCOLORATION

D-1 Showing 1/3 of surface in aggregate affected with

DISCOLORATION.

D-2 U.S. No. 1 Russet for Florida and Texas; or lower limit U.S.

No. 2 FOR TEXAS (66-2/3 PERCENT AGGREGATE DISCOLORATION).

M-3

MAXIMUM AMOUNT OF DISCOLORATION AND SPECK-TYPE MELANOSE

PERMITTED IN U.S. No. 2 FOR TEXAS (EQUIVALENT TO AGGREGATE

DISCOLORATION OF 2/3 SURFACE).

M-4 U.S. No. 2, LOWER LIMIT FOR TEXAS (MELANOSE.)

ILLUSTRATING TYPES OF SCALE

THE FOLLOWING MODELS 1 THROUGH 12 ARE NOT APPLICABLE AS CLASSIFICATION OF

DAMAGE OR SERIOUS DAMAGE AS DEFINED IN THE U.S. STANDARDS. THEY SHOULD ONLY BE USED TO ILLUSTRATE DIFFERENT TYPES OF SCALE.

No. 1	PURPLE OR OYSTER SHELL SCALE.
	1 011 02 011 0 70 1211 01 1222 007 1221

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.

SCARRING PERMITTED IN U.S. No. 1 - FLORIDA ONLY

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.

SHAPE - APPLICABLE TO CALIFORNIA, ARIZONA, FLORIDA AND TEXAS

5-1 U.S. No. 1.

5-2 U.S. No. 2.

5-3 U.S. No. 2.

5-4 U.S. No. 2.

S-5 U.S. No. 3.

5-6 U.S. No. 3.

U.S. No. 1, LOWER LIMIT, RUBY RED FOR ELONGATION.(Calif. - Ariz. 1964.).

U.S. No. 1, LOWER LIMIT, FOR RUBY RED FOR POINTED STEM END.(CALIF. - ARIZ. 1964.)

TEXTURE - APPLICABLE TO CALIFORNIA AND ARIZONA

T-1 Showing poorest texture permitted on U.S. No. 1.

T-2 Showing poorest texture permitted on U.S. No. 2.

COLOR COMPARATORS

PL-1 ILLUSTRATING SCAR COLORS. (APPLICABLE TO CALIFORNIA AND ARIZONA. 1949.)

PL-2 ILLUSTRATING LOWER LIMIT FOR COLOR IN WHICH YELLOW

PREDOMINATES OVER GREEN. (APPLICABLE TO FLORIDA AND TEXAS

1956.)

ORANGES

MODELS

DISCOLORATION

- **D-1** MAXIMUM DISCOLORATION ALLOWED IN U.S. No. 1 FOR FLORIDA AND TEXAS.
- D-2

 ILLUSTRATING DISCOLORATION IN A SOLID AREA COVERING

 APPROXIMATELY 1/3 OF SURFACE, MAXIMUM PERMITTED IN U.S. No. 1

 FOR FLORIDA AND TEXAS.
- No. 8 U.S. No. 1, NEAR BORDERLINE EQUIVALENT TO 1/3 DISCOLORATION.
- No. 29 MAXIMUM AMOUNT OF DISCOLORATION CAUSED BY SCARRING PERMITTED IN U.S. No. 1 FOR FLORIDA AND TEXAS.
- No. 36 LOWER LIMIT FOR DISCOLORATION, U.S. No. 1 FOR FLORIDA AND TEXAS.

GROOVING - APPLICABLE TO CALIFORNIA AND ARIZONA G-1 U.S. No. 1, BUT BORDERLINE ON ACCOUNT OF DEPTH OF GROOVES. G-2 U.S. No. 1, BUT BORDERLINE ACCOUNT OF NUMBER OF GROOVES. (1955.)G-3 U.S. No. 2, BUT BORDERLINE ACCOUNT OF DEPTH AND WIDTH OF GROOVES. (1955.) PROTRUDING NAVEL - APPLICABLE TO CALIFORNIA AND ARIZONA N-1 U.S. No. 1, LOWER LIMIT. N-2 U.S. No. 1, LOWER LIMIT. N-3 U.S. No. 2, LOWER LIMIT. N-4 U.S. No. 2, LOWER LIMIT. SCAB - APPLICABLE TO FLORIDA AND TEXAS SC-1 U.S. No. 1, MAXIMUM SCAB. SC-2 U.S. No. 1. MAXIMUM SCAB. SC-3 U.S. No. 1, MAXIMUM SCAB. SCALE BS-1 BLACK SCALE RESIDUE. (CALIFORNIA AND ARIZONA.) SCARRING DELETED (M-1 FLORIDA MURCOTT) SHAPE - APPLICABLE TO CALIFORNIA AND ARIZONA **S-1** WELL FORMED, LOWER LIMIT U.S. FANCY AND U.S. No. 1. (1959.) 5-2 FAIRLY WELL FORMED, LOWER LIMIT U.S. No. 2. (1959.) TEXTURE T-1 U.S. No. 1, LOWER LIMIT FOR FLORIDA AND TEXAS. T-2 U.S. No. 1, LOWER LIMIT FOR FLORIDA. T-3 U.S. No. 2, LOWER LIMIT FOR FLORIDA.

U.S. No. 1, LOWER LIMIT FOR CALIFORNIA AND ARIZONA.

T-4

T-5 U.S. No. 2, LOWER LIMIT FOR CALIFORNIA AND ARIZONA.

TT-1 U.S. No. 1, LOWER LIMIT FOR CALIFORNIA AND ARIZONA.

TS-1 U.S. No. 1, LOWER LIMIT FOR ISRAELI SHAMOUTI. (1962.)

"PERCENTAGE MODEL" ILLUSTRATING AGGREGATE AREA BY CIRCLES OF 5%, 10%, 15%,

20%, AND 25%. (RESTRICTED CIRCULATION.)

COLOR COMPARATOR (METAL)

CC-1 MINIMUM SHADE OF ORANGE COLOR PERMITTED IN "WELL COLORED,"

CALIFORNIA AND ARIZONA. (1951.)

COLOR COMPARATOR (PLEXIGLAS)

PL-1 SCAR COLOR GUIDE ILLUSTRATING "LIGHT," "FAIRLY LIGHT," AND "DARK" SCARS - CALIFORNIA AND ARIZONA. (1949.)

COLOR PHOTOGRAPHS

C-1 ORANGE, SKIN BREAKDOWN. U.S. No. 2, UPPER LIMIT.

March 1990.

ORG-CP-1 PULLED STEMS. DAMAGE, SERIOUS DAMAGE, VERY SERIOUS DAMAGE.
FEBRUARY 1990.

ORG-CP-2-A "SKIN BREAKDOWN" AND "OIL SPOTTING" FOR CALIFORNIA AND ARIZONA. MARCH 1990.

ORG-CP-2-B "SKIN BREAKDOWN" AND "OIL SPOTTING" FOR CALIFORNIA AND ARIZONA. MARCH 1990.

FOR IDENTIFICATION ONLY

MANDARIN Types of Mandarins. March 1990.

1-IDENT

MINNEOLA TANGELO CHARACTERISTIC SHAPE. MARCH 1990.

1-IDENT

CIT-(FLA&TX) OIL SPOTTING. MARCH 1990.

1 IDENT-A

CIT-(FLA&TX) OIL SPOTTING. MARCH 1990.

1-IDENT-B

CIT-(FLA&TX) SKIN BREAKDOWN. MARCH 1990.

2-IDENT-A

CIT-(FLA&TX) SKIN BREAKDOWN. MARCH 1990.

2-IDENT-B

CIT-(FLA&TX) OIL SPOTTING AND SKIN BREAKDOWN. MARCH 1990.

3-IDENT-A

CIT-(FLA&TX) OIL SPOTTING AND SKIN BREAKDOWN. MARCH 1990.

3-IDENT-B

TANGERINES

MODELS

No. 3 LOWER LIMIT FOR GREEN SPOTS IN U.S. No. 1. ALSO ILLUSTRATING

GOOD SHADE OF YELLOW COLOR FOR U.S. NO. 1, NOT BORDERLINE.

No. 4 LOWER LIMIT OF GREEN SPOTS IN U.S. No. 2.

No. 5 Green spots permitted in U.S. No. 2.

No. 6 GREEN SPOTS NOT PERMITTED IN U.S. No. 2.

No. 7 Tangerine color. "Deep Tangerine," U.S. Fancy, not lower

LIMIT.

No. 9 LOWER LIMIT U.S. No. 1 MINIMUM YELLOW COLOR AND MAXIMUM

AREA GREEN COLOR. (1960.)

CORN, SWEET

COLOR PHOTOGRAPH

FOR IDENTIFICATION ONLY

COR-1-IDENT SWEET CORN AUXILIARY EARS. SEPTEMBER 2002.

CRANBERRIES

MODELS

M-1 "BRUISING." U.S. No. 1, LOWER LIMIT.

M-2 "SCARRING." U.S. No. 1, LOWER LIMIT.

COLOR PHOTOGRAPHS

C-1 LOWER LIMIT FOR "FAIRLY UNIFORM" IN COLOR. APRIL 1990.

OBSOLETE.

CRB-CC-1 LOWER LIMIT OF "FAIRLY UNIFORM IN COLOR." (NOT TO BE USED FOR

MINIMUM COLOR.) JANUARY 1999.

CUCUMBERS

COLOR COMPARATOR

CC-1 CUCUMBER MEDIUM GREEN. USDA. APRIL 1999.

COLOR PHOTOGRAPHS

CUC-CP-1 DEFECTS. SCARS, SUNSCALD. MARCH 1990.

FOR IDENTIFICATION ONLY

CUC-1-IDENT POOR COLORING, SCARS, SACK IMPRINT. JULY 1990.

EGGPLANT

COLOR PHOTOGRAPHS

C-1 SCARRING. FRUIT AT LEFT AND CENTER ARE U.S. No. 1, LOWER LIMIT.

FRUIT AT RIGHT IS A U.S. No. 2. MARCH 1991.

C-2 GREEN COLOR. U.S. No. 1, LOWER LIMIT. MAXIMUM EXTENT TO

WHICH APPEARANCE MAY BE AFFECTED BY GREEN COLOR. JULY 1990.

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GARLIC

MODELS, SURFACE STAINS		
No. 1	MATERIALLY STAINED. GARLIC HAVING LESS STAINING IS NOT	
	CONSIDERED MATERIALLY STAINED.	
No. 2	MATERIALLY STAINED. GARLIC HAVING LESS STAINING IS NOT	
	CONSIDERED MATERIALLY STAINED.	
No. 3	MATERIALLY STAINED. GARLIC WITH APPEARANCE AFFECTED TO A	
	GREATER EXTENT CONSIDERED BADLY STAINED.	
No. 4	MATERIALLY STAINED. GARLIC WITH APPEARANCE AFFECTED TO A	
	GREATER EXTENT IS CONSIDERED BADLY STAINED.	
G RAPES		
COLOR PHOTOGRAPHS		
C-1	EMPEROR GRAPES ILLUSTRATING DARK RED AND VERY DARK RED COLOR.	
	APRIL 1990 (TABLE AND SAWDUST PACK "EXPORT" GRADES.)	
C-2	EMPEROR GRAPES ILLUSTRATING LIGHT RED AND DARK RED COLOR.	

C-3

GRP-IDENT-1 INDENTED BLOSSOM END. U.S. No. 1 TABLE - MAXIMUM ALLOWED OF INDENTION OF INDIVIDUAL BERRIES. MAY 2006.

GRAPE RAISINING - RAISINED. APRIL 1990.

APRIL 1990 (TABLE AND SAWDUST PACK "EXPORT" GRADES.)

PHOTOGRAPHS

PHOTO NO. 1 TABLE GRAPES. STRUCTURE OF BUNCHES. EMPEROR. APRIL 1990.

PHOTO NO. 2 TABLE GRAPES. STRUCTURE OF BUNCHES. EMPEROR. APRIL 1990.

KIWIFRUIT

MODELS

SHAPE

L.L.W.F. LOWER LIMIT WELL FORMED. (OCTOBER 1986.)

L.L.F.W.F. LOWER LIMIT FAIRLY WELL FORMED. (OCTOBER 1986.)

COLOR PHOTOGRAPHS

KWI-CP-2 WELL FORMED. JUNE 1990.

KWI-CP-3 FAIRLY WELL FORMED. JUNE 1990.

KWI-CP-3-A FAIRLY WELL FORMED. JUNE 1990.

KWI-CP-4 FORM. CULL. JUNE 1990.

KWI-CP-4-A FORM. CULL. JUNE 1990.

KWI-CP-5 MOLD. U.S. No. 1 AND U.S. No. 2. JUNE 1990.

FOR IDENTIFICATION ONLY

KWI-1-IDENT DISCOLORATION BY WATER STAINING. JUNE 1990.

LEMONS

MODELS

SHAPE

No. 1 U.S. No. 2, UPPER LIMIT.

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 U.S. No. 1, LOWER LIMIT.

No. 15 U.S. No. 2, JUST BELOW U.S. No. 1.

No. 17 U.S. No. 1, LOWER LIMIT, "FAIRLY WELL FORMED." (02/56.)

No. 18 U.S. No. 2, (NOT LOWER LIMIT), TOO ROUND TO BE CONSIDERED AS

HAVING NORMAL CHARACTERISTIC LEMON SHAPE. (1956.)

SCARS

No. 12 Scarring, showing color of scars.

LUMPINESS

No. 16 U.S. No. 2, NOT LOWER LIMIT.

TEXTURE AND SMOOTHNESS. (1959)

No. 19 LOWER LIMIT, SMOOTH.

No. 20 U.S. No. 1, LOWER LIMIT, FAIRLY SMOOTH.

No. 22 U.S. No. 1, LOWER LIMIT, FAIRLY SMOOTH.

No. 23 U.S. No. 1, LOWER LIMIT, FAIRLY SMOOTH.

No. 24 U.S. No. 2, LOWER LIMIT, REASONABLY SMOOTH.

No. 25 U.S. No. 2, LOWER LIMIT, REASONABLY SMOOTH.

No. 26 U.S. No. 2, LOWER LIMIT, REASONABLY SMOOTH.

COLOR COMPARATORS

PL-1 U.S. No. 1 Export, Lower Limit. Moderately well colored. **Scar color Guide**. (1964.)

COLOR PHOTOGRAPH

LEM-CP-1 Speck-type Melanose of Lemons. June 1979.

LETTUCE

COLOR CARDS

"LIGHT GREEN" - MINIMUM SHADE OF GREEN COLOR WHICH MUST BE PRESENT ON AT

LEAST ONE-HALF OF THE EXTERIOR SURFACE OF A U.S. NO. 1 OR U.S.

FANCY HEAD (EXCLUSIVE OF WRAPPER LEAVES.)

"LIGHT BUFF" - AREAS OF THIS COLOR AND DARKER SHALL BE CONSIDERED IN

DETERMINING INJURY, DAMAGE, OR SERIOUS DAMAGE BY TIPBURN.

COLOR COMPARATOR

LT-PL-1 MINIMUM "DEEP PINK" COLOR CONSIDERED IN SCORING PINK RIB. (1970.)

COLOR PHOTOGRAPHS

LT-CP-1 ILLUSTRATING RUSTY BROWN DISCOLORATION ON ICEBERG LETTUCE.

May 1990.

LT-CP-1-A ILLUSTRATING RUSTY BROWN DISCOLORATION ON ICEBERG LETTUCE.

May 1990.

LT-CP-2 DISCOLORATION FOLLOWING BRUISING. MARCH 1990.

LT-CP-3 Brown Stain. May 1990.

LT-CP-3-A Brown Stain. May 1990.

FOR IDENTIFICATION ONLY

LET-IDENT-1 RUSSET SPOTTING. APRIL 2003.

LET-IDENT-2 DOWNY MILDEW. APRIL 2003.

ROMAINE

COLOR PHOTOGRAPH

FOR IDENTIFICATION ONLY

ROM-1-IDENT SEEDSTEM. SEPTEMBER 2001.

LIMES

COLOR COMPARATORS

PL-1 LIGHTEST SHADE CONSIDERED "MEDIUM GREEN COLOR." (REV. 1971.)

PL-2 LOWER LIMIT COLOR FOR "TURNING," "MIXED," AND "GOOD GREEN." (1962).

LIM-CC-1 PERSIAN LIMES. MINIMUM COLOR CONSIDERED "GOOD GREEN."
USDA. July 2000.

COLOR PHOTOGRAPHS

LIM-CP-1 SEEDED LIMES. APRIL 1990.

LIM-CP-2 SEEDLESS LIMES. APRIL 1990.

FOR IDENTIFICATION ONLY

LIM-1-IDENT LIME COLOR. 1. GREEN COLOR. 2. UNIFORMLY BLANCHED BECAUSE

LIME WAS UNIFORMLY SHADED (QUALITY). 3. AREAS BLANCHED

BECAUSE LIME WAS PARTIALLY SHADED BY A LEAF, LIMB OR OTHER

FRUIT (QUALITY). 4. YELLOWING DUE TO THE RIPENING PROCESS

(CONDITION). DECEMBER 1998.

MANGOS

COLOR PHOTOGRAPHS

MAN-IDENT-1 Varieties of Mangos. Ataulfo, Haden, Keitt, Kent, Tommy
Atkins. May 2006.

MAN-IDENT-2 ANTHRACNOSE ON MANGOS. ANTHRACNOSE IN EARLY STAGES.

ANTHRACNOSE IN ADVANCED STAGES (ALONG CENTRAL LINE OF FRUIT). May 2006.

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MAN-IDENT-3 Mango. Scab on Stem end of Fruit. Scab on Side of Fruit.

May 2006.

MUSKMELONS

COLOR PHOTOGRAPH

MSK-CP-1 THE INSET MELON IS A HYBRID MUSKMELON THAT EXHIBITS WELL

DEFINED NETTING. MELONS OF THIS TYPE CAN BE CERTIFIED UNDER

THE U.S. STANDARDS FOR GRADES OF CANTALOUPS. JUNE 1998.

NECTARINES

MODELS

No. 3 EARLY SUN GRAND. MISSHAPEN, LOWER LIMIT. BUT NOT BADLY

MISSHAPEN. (APRIL 1968.)

No. 4 EARLY SUN GRAND. MISSHAPEN, LOWER LIMIT. BUT NOT BADLY

MISSHAPEN. (APRIL 1968.)

NO. 5 SHAPE. U.S. NO. 1, LOWER LIMIT HEALED SEAM FOR NECTARINE THIS

SIZE. (APRIL 1968.)

COLOR PHOTOGRAPHS

C-1 LOWER LIMIT "WELL FORMED." MAY 1990.

NEC-CP-2 SHAPE. MAY 1990.

NEC-CP-3 DEFECTS. SPLIT PIT AND NOT WELL FORMED. MAY 1990.

OKRA

COLOR PHOTOGRAPHS

OK-CP-1 Scarring, Discoloration, and Shriveled ends.

SEPTEMBER 1990.

FOR IDENTIFICATION ONLY

OK-1-IDENT BACTERIAL SOFT ROT. SEPTEMBER 1990.

ONIONS

MODELS

SHAPE - NORTHERN GROWN		
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	U.S. No. 1, LOWER LIMIT.	
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.	
SHAPE - SPANIS	SH .	
No. 16	U.S. No. 1.	
No. 17	U.S. COMMERCIAL, UPPER LIMIT.	
No. 18	U.S. COMMERCIAL.	
No. 19	U.S. COMMERCIAL.	
No. 20	U.S. COMMERCIAL.	
No. 21	U.S. COMMERCIAL.	

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CUARE AUGTR	ALTAN PROMA	
SHAPE - AUSTR No. 22	U.S. No. 1, LOWER LIMIT.	
No. 23	U.S. No. 1, NOT BORDERLINE.	
No. 24	U.S. COMMERCIAL, UPPER LIMIT.	
No. 25	U.S. COMMERCIAL, NOT BORDERLINE.	
SHAPE - BERMU	IDA - GRANEX	
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.	
COLOR COMPARA	ATORS	
ONS-CC-1	ONIONS (BGG) LIGHT TO MEDIUM GREEN. ONIONS (BGG) DARK	
	GREEN. SEPTEMBER 2001.	
ONS-CC-2	ONIONS NORTHERN MEDIUM GREEN. SEPTEMBER 2001.	
COLOR PHOTOGR	RAPHS	
C-1	CUT ONION SHOWING DISCOLORED OUTER SCALE PRESENT AND	
	REMOVED. APRIL 2005. PREVIOUSLY MARCH 1990.	****
C-2	CUT ONION SHOWING "DORMANCY" AND "NEW GROWTH."	
	March 1990.	
ONS-CP-3	SHAPE. APRIL 1990.	
ONS-CP-3-A	SHAPE. APRIL 1990.	

ONS-CP-10A STAINING, APPRECIABLY STAINED. JULY 1999.

C-10 APPRECIABLY STAINED. MARCH 1990.

C-11 BADLY STAINED. MARCH 1990.

PHOTOGRAPHS

PHOTO NO. 1 ONIONS WITH EXCESSIVELY LONG ROOTS, NOT PERMITTED IN U.S.

NO. 1. APRIL 1990.

PHOTO NO. 2 ONION SEEDSTEMS. APRIL 1990.

PHOTO NO. 3 ONION SEEDSTEMS, NOT U.S. NO. 1. APRIL 1990.

PHOTO NO. 4 ONIONS A, B AND D, U.S. COMMERCIAL. ONION C, U.S. No. 1.

APRIL 1990.

PHOTO NO. 5 ONIONS OF THESE SHAPES ALLOWED IN U.S. NO. 1 GRADE FOR NORTHERN GROWN. APRIL 1990.

PHOTO NO. 7 BERMUDA-GRANEX TYPE ONIONS, NOT U.S. NO. 1 ACCOUNT OF SHAPE.

APRIL 1990.

PHOTO NO. 8 NORTHERN GROWN, ILLUSTRATING SHAPE. A: U.S. NO. 1. B: U.S. COMMERCIAL. APRIL 1990.

PHOTO NO. 9 BERMUDA-GRANEX TYPE ONIONS, ILLUSTRATING SHAPE. U.S. NO. 1.

APRIL 1990.

PHOTO NO. 10 GLOBE SHAPE ONIONS. APRIL 1990.

PHOTO NO. 13 GRANEX-GRANO TYPE ONIONS. SHAPES PERMITTED IN U.S. NO. 1

GRADE FOR GRANEX-GRANO ONIONS. APRIL 1990.

PHOTO NO. 14 NORTHERN GROWN ONIONS, ILLUSTRATING EFFECT ON APPEARANCE OF OUTER SCALES. APRIL 1990.

PHOTO NO. 15 NORTHERN GROWN ONIONS, ILLUSTRATING "BOTTLENECKS" OR "THICK NECKED" ONIONS. APRIL 1990.

FOR IDENTIFICATION ONLY

ONS-IDENT-1 PURPLE BLOTCH. May 1992.

ONS-IDENT-2 PURPLE BLOTCH. MAY 1992.

ONIONS, COMMON GREEN

COLOR PHOTOGRAPH

FOR IDENTIFICATION ONLY

GON-1-IDENT THRIP INJURY. SEPTEMBER 2002.

PARSNIPS

PHOTOGRAPHS

PHOTO NO. 1 SHAPES PERMISSIBLE IN U.S. NO. 1. SEPTEMBER 1990.

PHOTO NO. 2 SHAPES PERMISSIBLE IN U.S. NO. 1. SEPTEMBER 1990.

PHOTO NO. 3 SHAPES PERMISSIBLE IN U.S. NO. 2. SEPTEMBER 1990.

PHOTO NO. 4 SHAPES PERMISSIBLE IN U.S. NO. 2. SEPTEMBER 1990.

PEACHES

MODELS

COLOR

1-C ILLUSTRATING 25% COLOR AND GRADATION OF COLOR NECESSARY TO

QUALIFY AS "COLOR." (1960.)

DEFECTS

1-D MAXIMUM SIZE OPEN SEAM (HEALED) PERMITTED FOR PEACH THIS

SIZE IN U.S. No. 1. (1960.)

2-D MAXIMUM "CREASE WART" FOR PEACH THIS SIZE IN U.S. No. 1.

(1963.)

SHAPE

1-5 LOWER LIMIT "WELL FORMED" FOR DUKE OF GEORGIA, MERRILL GEM
AND OTHER VARIETIES CHARACTERISTICALLY SIMILAR IN SHAPE.

(1959.)

COLOR PHOTOGRAPHS

PCH-CP-1 DEFECTS, SCALE, THRIPS INJURY. MARCH 1990.

PCH-CP-2 Shape and Defects. March 1990.

PCH-CP-2-A Shape and Defects. April 1990.

PCH-CP-2-B Shape and Defects. March 1990.

PCH-CP-2-C SHAPE AND DEFECTS. APRIL 1990.

PCH-CP-2-D SHAPE AND DEFECTS. APRIL 1990.

PCH-CP-3 CREASE WART ON PEACHES. MAY 1978.

PCH-CP-4 OPEN SEAMS. JULY 1989.

PCH-CP-5 FLAT Type PEACHES. APRIL 2000.

FOR IDENTIFICATION ONLY

PCH-1-IDENT RHIZOPUS ROT, BROWN ROT. MARCH 1990.

PCH-2-IDENT Scab, Bacterial Spot, White Granular Growth in Seed Cavity.

March 1990.

PCH-3-IDENT SEAM CRACK, GROWTH CRACK, OCTOBER 1993.

PEARS

MODELS

SHAPE - ANJOU

A-1 U.S. EXTRA NO. 1, LOWER LIMIT.

A-2 U.S. EXTRA NO. 1, LOWER LIMIT.

A-3 U.S. EXTRA NO. 1, LOWER LIMIT.

A-4 U.S. EXTRA NO. 1, LOWER LIMIT.

```
A-8
                  U.S. No. 1, LOWER LIMIT.
A-9
                  U.S. No. 1, LOWER LIMIT.
A-14
                  U.S. No. 1, LOWER LIMIT.
A-15
                  U.S. No. 1, LOWER LIMIT.
A-16
                  U.S. No. 1, LOWER LIMIT.
A - 10
                  U.S. No. 2, LOWER LIMIT.
A-11
                  U.S. No. 2, LOWER LIMIT.
                  U.S. No. 2, LOWER LIMIT.
A - 12
A - 13
                  U.S. No. 2, LOWER LIMIT.
SHAPE - BARTLETT
No. 3
                  U.S. No. 1, LOWER LIMIT. (1962-1963.)
No. 5
                  U.S. No. 1, LOWER LIMIT. (1962-1963.)
No. 6
                  U.S. No. 1, LOWER LIMIT. (1962-1963.)
No. 7
                  U.S. No. 1, LOWER LIMIT. (1962-1963.)
No. 46
                  U.S. No. 1, LOWER LIMIT. (1962-1963.)
No. 55
                  U.S. No. 1, LOWER LIMIT. (1962-1963.)
No. 27
                  U.S. No. 2, LOWER LIMIT.
No. 30
                  U.S. No. 2, LOWER LIMIT.
P-4
                  BARTLETT "PEBBLING," LOWER LIMIT. U.S. NO. 1 AND WASHINGTON
                  AND OREGON EXTRA FANCY. (1960.)
PR-M-56
                  SLANTED STEM END. U.S. No. 1, LOWER LIMIT. (1973.)
SHAPE - BOSC
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 *C*ULL.

SHAPE - WINTER NELLIS

N-1 U.S. No. 1, LOWER LIMIT.

N-2 U.S. No. 1, LOWER LIMIT.

N-3 U.S. No. 2, LOWER LIMIT.

N-4 U.S. No. 2, LOWER LIMIT.

N-5 U.S. No. 2, LOWER LIMIT.

N-6 U.S. No. 2, LOWER LIMIT.

COLOR COMPARATORS

PR-1 GROUND COLOR ON PEARS. (GREEN, LIGHT GREEN, YELLOWISH GREEN,

YELLOW.) REVISED 1999.

PR-2 DARK SKIN DISCOLORATION. VERY DARK BROWN, MEDIUM BROWN.

REVISED 1983.

COLOR PHOTOGRAPHS

C-1 ILLUSTRATING DEGREES OF PEAR PSYLLA. May 1990.

PR-CP-2 ILLUSTRATING SHAPE OF D'ANJOU PEARS WITH FOLDED END OR

SLANTED STEM END. MAY 1990.

PEAS

PHOTOGRAPHS

PHOTO NO. 1 ILLUSTRATING WELL DEVELOPED, FAIRLY WELL DEVELOPED AND POORLY

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DEVELOPED PEAS. OCTOBER 1990.

PHOTO NO. 2 NOT U.S. NO. 1, APPEARANCE OF PODS SERIOUSLY AFFECTED.

October 1990.

PLUMS

COLOR PHOTOGRAPHS

PL-CP-1 DAMAGE BY HAIL MARKS, SPLIT PIT AND SCARS. MAY 1990.

PLU-CP-2 U.S. No. 1, DAMAGE AND SERIOUS DAMAGE BY PEBBLING.
July 1997.

PLU-CP-3 INTERNAL DISCOLORATION. MARCH 2000.

FOR IDENTIFICATION ONLY

PL-1-IDENT SHAPE - SANTA ROSA AND RED BEAUT. May 1990.

PL-2-IDENT INJURY - FINGERNAIL, MECHANICAL, AND BIRD. MAY 1990.

PL-3-IDENT DEEP SUTURE, SCAR AND HEALED CUT. May 1990.

PL-4-IDENT SANTA ROSA. OFF SHAPE ACCOUNT OF POOR POLLINATION.

May 1990.

POTATOES

MODELS

DEFECTS

No. 1 MAXIMUM AMOUNT OF SURFACE SCAB (5% OF SURFACE) PERMITTED IN U.S. No. 1 GRADE.

NO. 2 MAXIMUM SIZE OF GROWTH CRACKS PERMITTED ON POTATO OF THIS SIZE IN U.S. NO. 1. CORRESPONDINGLY LARGER OR SMALLER SIZE GROWTH CRACKS PERMITTED ON LARGER OR SMALLER POTATOES.

- No. 6 ILLUSTRATING MAXIMUM AMOUNT OF PITTED SCAB PERMITTED ON A POTATO OF THIS SIZE IN U.S. No. 1.
- No. 8 LOWER LIMIT U.S. No. 2 (INTERMEDIATE OR ROUND TYPE), FLARING GROWTH CRACK.
- 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.

SHAPE

- **S-1** U.S. No. 1, LOWER LIMIT.
- **S-5** U.S. No. 1, LOWER LIMIT, SECOND GROWTH (LONG TYPE).
- **5-6** U.S. No. 2, LOWER LIMIT, FOLDED GROWTH (LONG TYPE).
- **S-14** U.S. No. 2, NOT A LIMIT (ALL TYPES).
- **S-15** U.S. No. 2, NOT A LIMIT (ALL TYPES).

COLOR BOOKLET

POT-L-1 OFFICIAL VISUAL AIDS FOR POTATOES. May 1998. (3 RING BINDER.)

FINGERLING POTATOES SHAPE, JULY 1999, PAGE 31.

IDENTIFICATION ONLY NETTING, AUGUST 2004, PAGE 32.

COLOR CHART

POT-L-2 POTATO DISORDER IDENTIFICATION CHART." 54 LITHOGRAPH PHOTOS. (DECEMBER 1980.)

COLOR COMPARATOR

POT-CC-1 COLOR COMPARATOR USED FOR SCORING BROWN CENTER AND HOLLOW HEART WITH DISCOLORATION. JANUARY 1998.

PRUNES

MODELS

- No. 6 MINIMUM COLOR FOR "FAIRLY WELL COLORED."
- No. 7 MINIMUM COLOR FOR U.S. No. 1, ITALIAN PRUNE. (1960.)

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COLOR COMPARATOR

PRN-CC-1 PURPLISH COLOR- FOR WASHINGTON STATE ONLY (8/87).

COLOR PHOTOGRAPH

PRN-CP-1 "GOLDEN BROWN TINGE," LOWER LIMIT FOR DISCOLORATION.

May 1990.

PUMPKINS

COLOR PHOTOGRAPH

PUM-IDENT-1 SURFACE MOLD PRESENT TO THIS DEGREE IS CONSIDERED MATERIALLY

DETRACTING FROM THE APPEARANCE OF THE PUMPKIN. SCORE AS

"DAMAGE BY SURFACE MOLD." (SURFACE MOLD IS NOT TO BE SCORED AS

SERIOUS DAMAGE.) MAY 2006.

RADISHES

COLOR PHOTOGRAPH

RAD-CP-1 DAMAGE BY ABRASIONS & AIR CRACKS. SEPTEMBER 1990.

RHUBARB, FIELD GROWN

PHOTOGRAPH

PHOTO NO. 1 Shape, STALKS PERMITTED IN U.S. FANCY AND U.S. NO. 1.

OCTOBER 1990.

SPINACH

COLOR COMPARATOR

PL-1 SHOWING MAXIMUM YELLOW DISCOLORATION, MARGINAL BROWNING

OR WHITE RUST, NOT CONSIDERED "DAMAGE" ON LEAF THIS SIZE.

PHOTOGRAPHS

PHOTO NO. 1 DESIRABLE SAVOY-TYPE PLANT. OCTOBER 1990.

PHOTO NO. 2 PLANT SHOWING SLIGHTLY LESS THAN 10 PERCENT WASTE CAUSED BY

COARSE STALK, U.S. No. 1. OCTOBER 1990.

PHOTO NO. 3 PLANT SHOWING COARSE STALK WHICH WOULD CAUSE MORE THAN 10 PERCENT WASTE. NOT U.S. No. 1. October 1990.

SQUASH

COLOR PHOTOGRAPHS

FOR IDENTIFICATION ONLY

SQ-1-IDENT PATTY PAN, BUTTERCUP AND BUTTERNUT. OCTOBER 1990.

SQ-2-IDENT Zucchini, Banana and Acorn. October 1990.

SQU-3-IDENT 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. OCTOBER 1998.

STRAWBERRIES

COLOR PHOTOGRAPH

STR-CP-1 ILLUSTRATING GUIDELINES FOR UNDEVELOPED OR BADLY FORMED

BERRIES. (3/87.)

SWEETPOTATOES

MODELS

No. 1 MAXIMUM VEINING PERMITTED U.S. EXTRA NO. 1.

No. 2 MAXIMUM VEINING PERMITTED U.S. No. 1.

No. 3 Not U.S. No. 1 grade account of roughness.

No. 4 Not U.S. No. 1 grade account of roughness.

NO. 5 NO. 1 GRADE ACCOUNT OF ROUGHNESS.

PHOTOGRAPHS

PHOTO NO. 5 FAIRLY WELL SHAPED. U.S. EXTRA NO. 1, U.S. NO. 1.

DECEMBER 1990.

PHOTO NO. 6 FAIRLY WELL SHAPED. U.S. EXTRA NO. 1, U.S. NO. 1.

DECEMBER 1990.

PHOTO NO. 7 FAIRLY WELL SHAPED. U.S. EXTRA NO. 1, U.S. NO. 1.

DECEMBER 1990.

PHOTO NO. 8 NOT FAIRLY WELL SHAPED. U.S. NO. 2. JANUARY 1991.

PHOTO NO. 9 NOT FAIRLY WELL SHAPED. U.S. NO. 2. DECEMBER 1990.

PHOTO NO. 10 NOT FAIRLY WELL SHAPED. U.S. NO. 2. DECEMBER 1990.

PHOTO NO. 11 NOT FAIRLY WELL SHAPED. U.S. NO. 2. DECEMBER 1990.

PHOTO NO. 12 NOT FAIRLY WELL SHAPED. U.S. NO. 2. DECEMBER 1990.

TOMATOES

MODELS

COLOR CLASSIFICATIONS

"GREEN"

"BREAKERS"

"TURNING"

"PINK"

"LIGHT RED"

'RED"

SHAPE AND SMOOTHNESS

No. 9 U.S. No. 1.

No. 11 U.S. No. 1, LOWER LIMIT.

No. 11a U.S. No. 1, LOWER LIMIT.

No. 13_A U.S. No. 2.

No. 14 U.S. No. 2.

No. 15_A U.S. No. 2.

No. **15**B U.S. No. 2.

No. 17 U.S. No. 2, LOWER LIMIT.

No. 17A U.S. No. 2, LOWER LIMIT.

No. 18 U.S. No. 3, LOWER LIMIT.

No. 21 U.S. No. 2, LOWER LIMIT.

No. 21B U.S. No. 3.

No. 22^A U.S. No. 2.

No. 27 U.S. No. 2, LOWER LIMIT.

No. 29 U.S. No. 3, LOWER LIMIT.

GROWTH CRACKS

No. 33 U.S. No. 3, LOWER LIMIT.

COLOR CHART

TM-L-1 COLOR CLASSIFICATION CHART. (FEBRUARY '75, THE JOHN HENRY COMPANY, COMMERCIAL SUPPLIER.)

COLOR PHOTOGRAPHS

TM-CP-1 ZIPPER SCARS OF TOMATOES. U.S. No. 1. JUNE 1990.

TM-CP-1-A ZIPPER SCARS OF TOMATOES. U.S. No. 2. JUNE 1990.

TM-CP-2 SOIL SPOT. JUNE 1990.

TM-CP-2-A SOIL SPOT. SUNKEN AREA GUIDE. JUNE 1990.

TM-CP-3 ABNORMAL COLORING. MAY 1992.

TM-CP-4 ABNORMAL COLORING. MAY 1992.

FOR IDENTIFICATION ONLY

TM-1-IDENT GROWTH CRACKS, HAIL INJURY AND SUNKEN DISCOLORED AREAS.

NOVEMBER 1990.

TM-2-IDENT CATFACES. NOVEMBER 1990.

TM-2-IDENT-A INTERNAL DISCOLORATION AND WORM INJURY. NOVEMBER 1990.

TM-3-IDENT SUNKEN DISCOLORED AREAS, SUNBURN, AND EXTERNAL

DISCOLORATION. NOVEMBER 1990.

TM-4-IDENT ILLUSTRATIONS OF EXEMPTED TYPES OF TOMATOES AS DEFINED IN

SECTION 980.212, TOMATO IMPORT REGULATIONS. (11/82.)

TM-5-IDENT ABNORMAL COLORING. May 1992.

TM-6-IDENT ABNORMAL COLORING. May 1992.

TURNIPS OR RUTABAGAS

PHOTOGRAPHS

PHOTO NO. 1 NOT U.S. NO. 1. JANUARY 1991.

PHOTO NO. 2 U.S. NO. 1 FOR SHAPE. MAY BE OUT ON WASTE. JANUARY 1991.

PHOTO NO. 3 BORDERLINE FOR SHAPE. OUT ON SHAPE AND APPEARANCE.

JANUARY 1991.

PHOTO NO. 4 U.S. NO. 1 FOR SHAPE. MAY BE OUT ON WASTE. JANUARY 1991.

PHOTO NO. 5 NOT U.S. NO. 1. JANUARY 1991.

PHOTO NO. 6 BORDERLINE. JANUARY 1991.

PHOTO NO. 7 NOT U.S. No. 1. January 1991.

PHOTO NO. 8 NOT U.S. No. 1. JANUARY 1991.

PHOTO NO. 9 U.S. No. 1 FOR SHAPE. IF VERY ROUGH ON BOTTOM, SCORE AGAINST

GRADE. JANUARY 1991.

PHOTO NO. 10 LEFT: U.S. No. 1. RIGHT: NOT U.S. No. 1. JANUARY 1991.

WATERMELONS

COLOR COMPARATORS

WML-PL-1 MEDIUM BROWN COLOR FOR TRANSIT RUBS. (APRIL 1978.)

WAT-CC-1 MINIMUM COLOR FOR MATURE RED FLESH VARIETIES OF

WATERMELONS. MARCH 2000.

COLOR PHOTOGRAPHS

C-1 RIND WORM SCARRING, DAMAGE, MARCH 1990.

FOR IDENTIFICATION ONLY

WAT-IDENT-1 HOLLOW HEART. MAY 2000.

WAT-IDENT-2 INTERNAL RIND SPOT. SECOND GROWTH. MAY 2000.

WAT-IDENT-3 OVERRIPE. JUNE 2000.

WAT-IDENT-4 ENLARGED/OPEN SEED CAVITIES. (NOT A SCORABLE DEFECT.)

APRIL 2003.

SECTION TWO - FRESH FRUITS AND VEGETABLES FOR PROCESSING

ASPARAGUS

PHOTOGRAPHS

PHOTO NO. 12 Spreading Tips. B - U.S. No. 1, LOWER LIMIT, U.S. STANDARDS

FOR PROCESSING. FEBRUARY 1991.

PHOTO NO. 13 SPREADING TIPS. U.S. STANDARDS FOR MARKET AND U.S.

STANDARDS FOR PROCESSING. U.S. No. 2, LOWER LIMIT. DAMAGED

BY SPREADING, BUT NOT SERIOUSLY DAMAGED. FEBRUARY 1991.

BEANS, LIMA

COLOR COMPARATORS

PL-1 U.S. No. 1. LIGHTEST SHADE OF "GREEN" COLOR PERMITTED FOR

COTYLEDONS OF UNBLANCHED BEANS. FOR FORDHOOK TYPE ONLY.

(1953.)

PL-2 U.S. No. 1. LIGHTEST SHADE "GREEN" PERMITTED FOR COTYLEDONS

OF UNBLANCHED BEANS OF THOROGREEN VARIETY. (1957.)

BEANS, SNAP

COLOR COMPARATOR (LAMINATED PHOTO)

ONLY ONE ILLUSTRATED SCAR ALLOWED ON ONE WHOLE BEAN. U.S. No. 1, LOWER LIMIT OR U.S. No. 2, LOWER LIMIT.

CARROTS

COLOR COMPARATORS

PL-1 CROSS SECTION. ILLUSTRATING POORLY COLORED, FAIRLY WELL

COLORED AND WELL COLORED. (1950.)

PL-2 CROSS SECTION. ILLUSTRATING FAIRLY WELL COLORED ONLY. (1950.)

CHERRIES, SOUR

MODELS

NO. 9 MAXIMUM AREA OF DARK OR LIGHT SURFACE DISCOLORATION

PERMITTED IN THE GRADES. VARYING AREAS OF OTHER SHADES

PERMITTED PROVIDED THE APPEARANCE IS NOT AFFECTED TO A GREATER

EXTENT.

No. 10 ILLUSTRATING LOWER LIMIT OF "FAIRLY WELL COLORED."

COLOR COMPARATOR

PL-1-RSP RED SOUR CHERRIES FOR MANUFACTURE. MINIMUM COLOR, U.S.

No. 1. USDA. JUNE 1999.

GRAPES

COLOR COMPARATOR

GRP-PL-2 PULP DISCOLORATION GUIDE FOR GRAPES FOR PROCESSING. A

MINIMUM SHADE OF DISCOLORATION CAUSING SERIOUS DAMAGE.

MUSHROOMS

COLOR PHOTOGRAPHS

MSH-CP-1 DISEASE SPOTS, FEATHERING AND DISCOLORATION OF STEMS.

FEBRUARY 1991.

MSH-CP-2 DISEASE SPOTS, FEATHERING AND DISCOLORATION OF STEMS.

FEBRUARY 1991.

MSH-CP-3 DISEASE SPOTS AND MECHANICAL. FEBRUARY 1991.

MSH-CP-4 DISEASED CAPS AND STEMS. FEBRUARY 1991.

MSH-CP-5 Mechanical and Diseased Stems. February 1991.

PEACHES

COLOR COMPARATOR

CC-1 PEACHES FOR PROCESSING. COLOR NO. 2. LOWER LIMIT FOR GROUND

COLOR (3 COLORS ON ONE PLEXIGLAS, JULY 1966.)

PEPPERS, SWEET

COLOR COMPARATORS

PL-1 ILLUSTRATING LOWER LIMIT FOR "MEDIUM RED" COLOR. (1952.)

PL-2 ILLUSTRATING LOWER LIMIT FOR "DARK RED" COLOR. (1963.)

PHOTOGRAPHS

PHOTO NO. 1 LOWER LIMIT SHAPE PERMITTED IN U.S. NO. 1 UNDER DEFINITION OF

"FAIRLY WELL SHAPED." FEBRUARY 1991.

PHOTO NO. 1A BOTTOM VIEW OF PEPPERS SHOWN IN PHOTO NO. 1. FEBRUARY 1991.

PHOTO NO. 2 ILLUSTRATING SHAPES DESIGNATED AS "BUTTONS" WHICH ARE NOT

SERIOUSLY DAMAGED, LOWER LIMIT FOR U.S. NO. 2. FEBRUARY 1991.

PHOTO NO. 2A BOTTOM VIEW OF PEPPERS SHOWN IN PHOTO NO. 2. FEBRUARY 1991.

PHOTO NO. 3 ILLUSTRATING SHAPES DESIGNATED AS "BUTTONS" WHICH ARE

SERIOUSLY DAMAGED AND CLASSIFIED AS CULLS. FEBRUARY 1991.

PHOTO NO. 3A BOTTOM VIEW OF PEPPERS SHOWN IN PHOTO NO. 3. FEBRUARY 1991.

POTATOES

COLOR COMPARATORS

POT-CC-1 INTERNAL LIGHT BROWN DISCOLORATION.

PP-1 "MEDIUM BROWN." (MUNSELL, JULY 1963).

PP-2 "TAN." (MUNSELL).

PP-3 "YELLOW." (MUNSELL, COMMERCIAL SUPPLIER).

SWEETPOTATOES

COLOR COMPARATORS

SP-1 SWEETPOTATO COLOR GRADATION CHART. (4 COLORS).

SP-1 COLOR No. 4 (ONLY). (1957).

TOMATOES

COLOR COMPARATORS

PL-1 90% GOOD RED COLOR.

PL-2 FAIRLY WELL COLORED.

TOMATOES, ITALIAN TYPE

COLOR COMPARATOR

PL-1 LOWER LIMIT U.S. No. 1 Color. (1957).

SECTION THREE - NUTS, MISCELLANEOUS PRODUCTS

ALMONDS

COLOR PHOTOGRAPH

FOR IDENTIFICATION ONLY

ALM-1-IDENT Brown Spot, Gum and Shriveling. Insect and Skin Blemishes.

FEBRUARY 1991.

BRAZIL NUTS

COLOR PHOTOS, 1 THROUGH 32 ILLUSTRATING NUT KERNELS WHICH SHALL BE OR SHALL NOT BE INCLUDED FOR AFLATOXIN ANALYSIS. (1969).

FILBERTS

MODELS

KERNELS

No. 1 SHRIVELING, ROUND TYPES. U.S. No. 1, LOWER LIMIT.

No. 2 SHRIVELING, ROUND TYPES. U.S. No. 1, LOWER LIMIT.

No. 3 SHRIVELING, LONG TYPES. U.S. No. 1, LOWER LIMIT.

No. 4 SHRIVELING, LONG TYPES. U.S. No. 1, LOWER LIMIT.

COLOR PHOTOGRAPHS

FIL-CP-1 SPLIT SHELLS ON FILBERTS. APRIL 1991.

FIL-CP-2 DISCOLORATION-RIDGING OF SHELLS. APRIL 1991.

FIL-CP-2-A DISCOLORATION-RIDGING OF SHELLS. APRIL 1991.

FIL-CP-3 SHRIVELING, MARCH 1993.

"IN SHELL" WALNUTS. (LIMITED DISTRIBUTIONS).

Revised, April 2008, HU-153-8(a) Page 43, Official Inventory of Inspection Aids and 2x2 Slides, December 2004

FIL-CP-4 SHAPE. MARCH 1993.

FOR IDENTIFICATION ONLY

FIL-1-IDENT LONG TYPE AND ROUND TYPE FILBERTS. (Oct. 1983).

FIL-2-IDENT DECAY OF FILBERTS. (FEBRUARY 1990). PREVIOUSLY

November 1980.

FIL-3-IDENT MOLD OF FILBERTS. (FEBRUARY 1990). PREVIOUSLY NOVEMBER 1980.

FIL-4-IDENT RANCIDITY OF FILBERTS. (FEBRUARY 1990). PREVIOUSLY

NOVEMBER 1980.

PEANUTS

COLOR COMPARATOR

PN-1 SKIN DISCOLORATION. (BROWN, GRAY, BLUE-GRAY, PURPLE; REVISED 1983).

PNT-CP-9 PURPLE FLESH DISCOLORATION. MAXIMUM ALLOWED BEFORE MINOR.
July 2000.

PNT-CP-10 GREEN FLESH DISCOLORATION. MAXIMUM ALLOWED BEFORE MINOR. FEBRUARY 2003.

COLOR PHOTOGRAPHS

PN-2 SHELL DISCOLORATION ON VALENCIA TYPE PEANUTS. (07/86). PN-CP-1 SURFACE DISCOLORATION. (08/86). PN-CP-2 ADHERING DIRT ON PEANUTS. (08/86). PEN-CP-3 ASPERGILLUS FLAVUS MOLD IDENTIFICATION. (REVISED, SEPT. 1982.) PEN-CP-3-A IDENTIFICATION - "MINI-MOLD"/A-FLAVUS COMPARISON. (06/89). PEN-CP-3-B IDENTIFICATION - "MINI-MOLD"/A-FLAVUS COMPARISON. (06/89). PEN-CP-4 DISCOLORATION ON SHELLS OF (VA Type) MILLED PEANUTS. (12/73). PN-CP-5 ADHERING MATERIAL ON PEANUT KERNELS. (JANUARY 1996). PEN-CP-6 PEANUT KERNELS SHOWING FREEZING DAMAGE. (REVISED 09/89).

PNT-CP-7 HIGH MOISTURE FOREIGN MATERIAL FOR PEANUTS.

SEPTEMBER 1992.

PEN-CP-8 Illustrating Farmers' Stock Peanuts showing "Not Raisins" and "Raisins" ("Twister"). June 1996.

PHOTOGRAPH

PN-PHOTO NO. 7 GUIDE FOR SCORING VIRGINIA TYPE PEANUTS IN THE SHELL SHOWING "NOT DAMAGED" AND "DAMAGED" SHELLS. (JUNE 1968).

PECANS

MODELS

PEC-MC-1 PECAN KERNEL COLOR STANDARDS. (FOUR PLASTIC MODELS, NASCO, 1968, COMMERCIAL SUPPLIER.)

COLOR COMPARATOR

PEC-PL-1 INTERNAL FLESH DISCOLORATION. (1973)

PISTACHIO NUTS

COLOR COMPARATOR

PIS-CC-1 MAXIMUM BROWN COLOR ALLOWED FOR LIGHT STAINING ANY COLOR

DARKER IS CONSIDERED DARK STAIN. (08/99)

COLOR PHOTOGRAPHS

NUT KERNEL CLASSIFICATION FOR AFLATOXIN ANALYSIS. P-1 THROUGH P-8. (JUNE 1972, LIMITED DISTRIBUTIONS).

WALNUTS

MODELS

NO. 1 ACRYLIC BLOCK WITH WALNUT KERNELS ILLUSTRATING SHRIVELING OF

"IN SHELL" WALNUTS. (LIMITED DISTRIBUTIONS)

COLOR CHARTS

ILLUSTRATING COLOR CLASSIFICATIONS IN U.S. STANDARDS FOR GRADES OF WALNUTS IN THE SHELL AND U.S. STANDARDS FOR GRADES OF SHELLED WALNUTS. (1967).

SECTION FOUR - SPECIAL VISUAL AIDS

AGGREGATE AREA

COLOR PHOTOGRAPH

GEN-CP-1

AGGREGATE AREA. WHEN A SCORING GUIDELINE STATES "AGGREGATE AREA" VISUALLY MOVE THE AFFECTED AREA TOGETHER AS SHOWN ABOVE. APRIL 2001.

CORRESPONDING AREAS

POSTER

GEN-1-POSTER

CORRESPONDING AREA SIZES. BASED ON A 2-1/2 INCH DIAMETER SPECIMEN. CORRESPONDING AREA SIZES. BASED ON A 2-3/4 INCH DIAMETER SPECIMEN. CORRESPONDING AREA SIZES. BASED ON A 3 INCH SPECIMEN. APRIL 2006.

PART II OFFICIAL 2X2 SLIDES

APPLES

- SMOOTH SOLID RUSSETING, NEAR UPPER LIMIT U.S. No. 1. (BOTH SIDES SAME APPLE.)
- 112 COMBINATION SMOOTH SOLID AND NET-LIKE RUSSETING. NEAR UPPER LIMIT U.S.
 No. 1 (Both sides same apple.)
- 113 SMOOTH NET-LIKE RUSSETING. LOWER LIMIT U.S. FANCY. (BOTH SIDES SAME APPLE.)
- 115 COMBINATION SMOOTH SOLID AND SMOOTH NET-LIKE RUSSETING. LOWER LIMIT U.S. No. 1.
- 116 RED BANDED LEAF ROLLER. (IDENTIFICATION ONLY.)
- 118 GOLDEN DELICIOUS. COMBINATION SMOOTH SOLID AND SMOOTH NET-LIKE RUSSETING. UPPER LIMIT U.S. UTILITY.
- 119 GOLDEN DELICIOUS. COMBINATION SMOOTH SOLID AND SMOOTH NET-LIKE RUSSETING. NEAR UPPER LIMIT U.S. UTILITY.
- 120 McIntosh. Stem cavity browning Indicating brown core. U.S. Utility.
- 121 McIntosh. Stem cavity browning indicating brown core. Cull.
- 122 McIntosh. Stem cavity browning indicating brown core. Cull.
- 123 HAIL MARKS. BOTH LOWER LIMIT U.S. FANCY OR U.S. No. 1. (CONSIDER AREA ONLY.)
- 125 HAIL MARKS. U.S. FANCY OR U.S. NO. 1.
- 126 HAIL MARKS. LOWER LIMIT U.S. FANCY AND U.S. NO. 1.
- 127 HAIL MARKS. MORE THAN SLIGHTLY DEPRESSED U.S. UTILITY.
- 128 HAIL MARKS. BOTH LOWER LIMIT U.S. NO. 1 AND U.S. FANCY.
- 129 HAIL MARKS. RIGHT: U.S. UTILITY LEFT: U.S. FANCY OR U.S. NO. 1.

- 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.
- 303 RED DELICIOUS COLOR. SMALL AREA 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 GOOD RED, STRIPES OF COMPENSATING COLOR, AND AREAS OF NO COLOR.
- **306** RED DELICIOUS COLOR. FEW STREAKS COMPENSATING COLOR, NO GOOD RED.
- **307** RED DELICIOUS SHAPE. UPPER LIMIT U.S. UTILITY.
- 308 RED DELICIOUS SHAPE. UPPER LIMIT U.S. UTILITY.
- 409 DISEASE, JONATHAN SPOT.
- 410 FROST INJURY.
- 411 DISEASE. APPLE SCAB. (ACTIVE BUT NOT STORAGE SCAB.)
- 412 DISEASE. BITTER PIT.
- 413 DISEASE. SOFT SCALD.
- 414 DISEASE, CEDAR RUST.
- 415 DISEASE. SCALD.
- 416 INTERNAL BREAKDOWN FOLLOWING WATERCORE.
- 417 DISEASE. JONATHAN SPOT.
- 418 APPLE MAGGOT INJURY.
- 420 RED DELICIOUS COLOR. FEW SPOTS GOOD RED, MOST STRIPES ARE COMPENSATING

- COLOR, SOME FADED STRIPES ARE NO COLOR.
- 421 DISEASE. BULL'S-EYE ROT INITIAL STAGES.
- 422 DISEASE. BULL'S-EYE ROT ADVANCED.
- **426** MOLDY, ENLARGED SEED CAVITY NOT INJURED.
- **427** MOLDY, ENLARGED SEED CAVITY SERIOUS DAMAGE.

APPLES FOR PROCESSING

1 THROUGH 14 - TRAINING SERIES.

CABBAGE

108 TIPBURN IN CABBAGE FOR PROCESSING.

CANTALOUPS

- **247** WELL NETTED, LOWER LIMIT.
- **248** WELL NETTED, LOWER LIMIT, GROUND SPOT SHOWS SOME NETTING. (BOTH SIDES SAME MELON.)
- 249 FAIRLY WELL NETTED, LOWER LIMIT. (BOTH SIDES SAME MELON.)
- 250 WELL NETTED. (EDISTO VARIETY.)
- 251 FAIRLY WELL NETTED. (EDISTO VARIETY.)
- **252** Damage by scarring. (Both sides same melon.)
- 253 SURFACE MOLD IN STEM SCAR. PASS AT DESTINATION IF NO DECAY.
- 254 SURFACE MOLD. LOWER LIMIT U.S. No. 1 AT DESTINATION. GREEN SUTURES DO NOT MATERIALLY AFFECT APPEARANCE.
- 255 SERIOUS DAMAGE BY WATERSOAKED RIND.
- 256 SERIOUS DAMAGE BY WATERSOAKED RIND AND STEM END CRACKS.
- 257 SERIOUS DAMAGE BY STEM END CRACKS.

FLORIDA CITRUS

(USDA VISUAL AID CIT-(FL)-L-1, FEBRUARY 1973.)
FLORIDA ORANGES AND TANGELOS

COLOR

- 1 FAIRLY WELL COLORED.
- 2 REASONABLY WELL COLORED.

TEXTURE

- **3** FAIRLY SMOOTH.
- **4** SLIGHTLY ROUGH.

VARIETAL CHARACTERISTICS

- 5 VALENCIA (LATE TYPE).
- 6 VALENCIA CUT.
- 7 PINEAPPLE (MIDSEASON TYPE).
- 8 PINEAPPLE CUT.
- 9 HAMLIN (EARLY TYPE).
- 10 HAMLIN CUT.
- 11 MINNEOLA (TANGELO).
- 12 MINNEOLA CUT.
- 13 ORLANDO (TANGELO).
- 14 ORLANDO CUT.
- 15 NAVEL.
- 16 NAVEL CUT.

SHAPE

- WELL FORMED.
- 18 WELL FORMED.
- 19 SLIGHTLY MISSHAPEN.

20 MISSHAPEN.

DISCOLORATION

- 21 SUPERFICIAL SCARS.
- **22** SUPERFICIAL SCARS.
- 23 RUST MITE.
- **24** SPECK TYPE MELANOSE.

FREE FROM DEFECTS

- 25 CUTS NOT HEALED.
- 26 BUCKSKIN.
- 27 BRUISES (CUT).
- 28 GROWTH CRACK.

DECAY

- **29** GREEN MOLD ROT.
- 30 BLUE MOLD ROT.
- 31 SOUR ROT.
- 32 BROWN ROT.
- 33 SIDE ROT.
- 34 STEM-END ROT.
- 35 BLACK ROT.

DEFECTS

- 36 CAKE MELANOSE MAXIMUM ALLOWED FOR A U.S. No. 1.
- 37 CAKE MELANOSE MAXIMUM ALLOWED FOR A U.S. No. 2.
- 39 CREASING MAXIMUM ALLOWED FOR A U.S. No. 1.
- 41 CREASING MAXIMUM ALLOWED FOR A U.S. NO. 2.
- **42** GREEN SPOTS U.S. No. 3.
- **43** HAIL U.S. No. 1.
- 44 HAIL MAXIMUM ALLOWED FOR A U.S. No. 2.

- **45** Hail U.S. No. 3.
- 46 OIL SPOTS MAXIMUM ALLOWED FOR A U.S. No. 1.
- 47 OIL SPOTS MAXIMUM ALLOWED FOR A U.S. No. 2.
- 48 SCAB MAXIMUM ALLOWED FOR A U.S. No. 1.
- 49 SCAB MAXIMUM ALLOWED FOR A U.S. No. 2.
- 51 SCARS U.S. No. 3.
- 52 SCARS MAXIMUM ALLOWED FOR A U.S. No. 2.
- 53 SCARS U.S. No. 3.
- 54 SCARS MAXIMUM ALLOWED FOR A U.S. No. 1.
- 55 SCARS MAXIMUM ALLOWED FOR A U.S. No. 2.
- 56 SCARS MAXIMUM ALLOWED FOR A U.S. No. 1.
- 57 SCARS MAXIMUM ALLOWED FOR A U.S. No. 1.
- 58 Scale MAXIMUM ALLOWED FOR A U.S. No. 1.
- 59 Scale MAXIMUM ALLOWED FOR A U.S. No. 2.
- 60 SKIN BREAKDOWN MAXIMUM ALLOWED FOR A U.S. No. 1.
- 61 SKIN BREAKDOWN MAXIMUM ALLOWED FOR A U.S. No. 2.
- 62 SKIN BREAKDOWN U.S. No. 3.
- 63 SPRAYBURN MAXIMUM ALLOWED FOR A U.S. No. 1.
- **64** SPRAYBURN MAXIMUM ALLOWED FOR A U.S. No. 2.
- 65 SUNBURN MAXIMUM ALLOWED FOR A U.S. No. 2.
- **66** SUNBURN MAXIMUM ALLOWED FOR A U.S. No. 2 (FRUIT FROM SLIDE NUMBER 65, WHEN CUT).
- 67 SPLIT, ROUGH, OR PROTRUDING NAVEL MAXIMUM ALLOWED FOR A U.S. No. 1.
- 68 SPLIT, ROUGH, OR PROTRUDING NAVEL MAXIMUM ALLOWED FOR A U.S. No. 1.
- 69 THORN SCRATCHES MAXIMUM ALLOWED FOR A U.S. No. 1.
- 70 THORN SCRATCHES MAXIMUM ALLOWED FOR A U.S. No. 2.

- 71 THORN SCRATCHES U.S. No. 3.
- 72 PULLED STEM MAXIMUM ALLOWED FOR A U.S. No. 1.
- 73 PULLED STEM MAXIMUM ALLOWED FOR A U.S. No. 2.
- **74** PULLED STEM U.S. No. 3.

GRAPEFRUIT

COLOR

75 FAIRLY WELL COLORED.

SHAPE

76 WELL FORMED.

76-A WELL FORMED.

VARIETAL CHARACTERISTICS

- **77** SEEDED (WHITE).
- 78 SEEDED (WHITE) CUT.
- **79** SEEDED (PINK).
- 80 SEEDED (PINK) CUT.
- 81 SEEDLESS (WHITE).
- **82** SEEDLESS (WHITE) CUT.
- 83 SEEDLESS (PINK).
- **84** SEEDLESS (PINK) CUT.

DISCOLORATION

- **85** SUPERFICIAL SCARS.
- **86** Speck type Melanose Maximum allowed (entire surface).
- **87** RUST MITE.
- 88 RUST MITE.

DEFECTS

- **89** BUCKSKIN MAXIMUM ALLOWED FOR A U.S. No. 1.
- 90 BUCKSKIN MAXIMUM ALLOWED FOR A U.S. No. 2.

- 91 CAKED MELANOSE MAXIMUM ALLOWED FOR A U.S. No. 2.
- 92 HAIL MAXIMUM ALLOWED FOR A U.S. No. 1.
- 93 HAIL MAXIMUM ALLOWED FOR A U.S. NO. 2.
- **94** Hail U.S. No. 3.
- 95 OIL SPOTS MAXIMUM ALLOWED FOR A U.S. No. 1.
- 96 OIL SPOTS MAXIMUM ALLOWED FOR A U.S. No. 2.
- **97** OIL SPOTS U.S. No. 3.
- 98 Scale RING; MAXIMUM ALLOWED FOR A U.S. No. 1.
- 99 Scale BLOTCH: MAXIMUM ALLOWED FOR A U.S. No. 2.
- 100 SCARS MAXIMUM ALLOWED FOR A U.S. No. 1.
- 101 Scars Maximum allowed for a U.S. No. 1.
- 102 Scars Maximum allowed for a U.S. No. 2.
- 103 SCARS MAXIMUM ALLOWED FOR A U.S. No. 2.
- 104 SKIN BREAKDOWN MAXIMUM ALLOWED FOR A U.S. No. 1.
- 105 SKIN BREAKDOWN MAXIMUM ALLOWED FOR A U.S. No. 2.
- 106 SPRAYBURN MAXIMUM ALLOWED FOR A U.S. No. 2.
- 107 THORN SCRATCHES MAXIMUM ALLOWED FOR A U.S. No. 2.
- 108 SUNBURN MAXIMUM ALLOWED FOR A U.S. No. 1.
- SUNBURN MAXIMUM ALLOWED FOR A U.S. No. 1 (FRUIT FROM SLIDE NUMBER 108, WHEN CUT).
- 110 SUNBURN MAXIMUM ALLOWED FOR A U.S. No. 2.
- 111 SUNBURN MAXIMUM ALLOWED FOR A U.S. No. 2 (FRUIT FROM SLIDE NUMBER 110, WHEN CUT).
- 112 SPROUTING CUT.

TANGERINES

SHAPE

- 113 WELL FORMED.
- 114 FAIRLY WELL FORMED.
- 115 MISSHAPEN.

TEXTURE

116 NOT SERIOUSLY LUMPY.

FIRMNESS

117 BADLY PUFFY.

COLOR

- 118 FAIRLY WELL COLORED.
- 119 FAIRLY WELL COLORED.

VARIETAL CHARACTERISTICS

- 120 HONEY TANGERINE.
- 121 HONEY TANGERINE CUT.
- 122 ROBINSON.
- 123 ROBINSON CUT.
- **124** DANCY.
- **125** DANCY CUT.

DEFECTS

- 126 BUCKSKIN MAXIMUM ALLOWED FOR A U.S. No. 2.
- **127** GREEN SPOTS U.S. No. 3.
- 128 Scale RED; MAXIMUM ALLOWED FOR A U.S. No. 2.
- 129 Scale Purple; MAXIMUM ALLOWED FOR A U.S. No. 2.
- 131 OIL SPOTS MAXIMUM ALLOWED FOR A U.S. No. 1.
- 132 SCARS MAXIMUM ALLOWED FOR A U.S. No. 1.
- 133 SCARS MAXIMUM ALLOWED FOR A U.S. No. 1.

- 134 SCARS MAXIMUM ALLOWED FOR A U.S. NO. 1.
- 135 SCARS MAXIMUM ALLOWED FOR A U.S. No. 2.
- 136 SCARS MAXIMUM ALLOWED FOR A U.S. No. 2.
- 137 SCARS U.S. No. 3.
- 138 SCARS U.S. No. 3.
- 139 SKIN BREAKDOWN MAXIMUM ALLOWED FOR A U.S. No. 2.
- 140 SKIN BREAKDOWN U.S. No. 3.
- 141 SUNBURN MAXIMUM ALLOWED FOR A U.S. No. 2.
- 142 SUNBURN MAXIMUM ALLOWED FOR A U.S. No. 2 (FRUIT FROM SLIDE NUMBER 141, WHEN CUT).
- 145 Unsightly discoloration Maximum allowed for a U.S. No. 1.
- 146 Unsightly discoloration Maximum allowed for a U.S. No. 2.
- 147 HAIL MAXIMUM ALLOWED FOR A U.S. No. 2.
- 148 CLIPPER CUT CUT UNHEALED.

CUCUMBERS

- 215 SHAPE. BOTH LOWER LIMIT U.S. No. 2.
- 216 SHAPE. TOP: LOWER LIMIT U.S. No. 1. CENTER: U.S. No. 2, UPPER LIMIT.

 BOTTOM: U.S. No. 2.
- 217 SHAPE. TOP: UPPER LIMIT U.S. No. 2. CENTER: U.S. No. 2, LOWER LIMIT.

 BOTTOM: U.S. No. 1, LOWER LIMIT.
- 218 SHAPE. ALL U.S. NO. 2, NEAR LOWER LIMIT.
- 219 SHAPE. TOP: UPPER LIMIT U.S. No. 2. BOTTOM: CULL.
- 220 SHAPE. TOP: LOWER LIMIT U.S. FANCY. CENTER: U.S. No. 1, UPPER LIMIT.

 BOTTOM: U.S. No. 2, UPPER LIMIT.

- 221 SHAPE. TOP: LOWER LIMIT U.S. No. 2. CENTER: UPPER LIMIT U.S. No. 2.

 BOTTOM: U.S. No. 1.
- 222 SHAPE. ALL U.S. No. 2.

GRAPEFRUIT

- MELANOSE. UPPER 2: (ENTIRE FRUIT AFFECTED SAME EXTENT). LEFT: U.S. No. 1.

 RIGHT: U.S. No. 1 RUSSET. BOTTOM: U.S. No. 2. NOT U.S. No. 1 RUSSET

 ACCOUNT CAKED TYPE MELANOSE.
- 94 DISCOLORATION. UPPER RIGHT: U.S. No. 2 ACCOUNT PATTERN. SUBJECT TO RESTRICTION ON AREA. OTHER 2: U.S. No. 1 RUSSET.
- 179 COLOR. BOTH U.S. No. 1.
- 180 CAKED MELANOSE, U.S. No. 2.
- 183 DISCOLORATION, "PITTING" TYPE, LOWER LIMIT U.S. No. 2.
- **184** GREEN SPOTS. U.S. No. 2. (BOTH SIDES SAME FRUIT.)
- **185** GREEN SPOTS. U.S. No. 2. (BOTH SIDES SAME FRUIT.)
- 186 COLOR & GREEN SPOTS. U.S. No. 2. (BOTH SIDES SAME FRUIT.)
- 187 DISCOLORATION BOTH U.S. NO. 1 RUSSET (ALL DISCOLORATION VISIBLE.)
- 188 SCARRING, HARD OR ROUGH, BOTH U.S. No. 2.
- 189 DISCOLORATION. RUST-MITE. U.S. No. 1 BRONZE.
- 190 BUCKSKIN. UPPER LIMIT. U.S. No. 3.

LIMES

- 103 WHITE-FLY DISCOLORATION. ALL U.S. No. 1, LOWER LIMIT.
- 104 WHITE-FLY DISCOLORATION. ALL U.S. No. 2, LOWER LIMIT. (NO DISCOLORATION ON REMAINDER OF SURFACE.)

NECTARINES

- 191 EARLY LEGRAND. ROUGH RUSSETING.
- 193 LATE LEGRAND. SMOOTH SOLID RUSSETING.
- 194 EARLY LEGRAND. ROUGH RUSSETING AT BLOSSOM END AND "SPECKLING" AT CENTER OF FRUIT.
- 195 LATE LEGRAND. DAMAGED. EXCESSIVE SMOOTH SOLID AND ROUGH RUSSETING, AND DEEP GROWTH CRACK.
- 196 EARLY LEGRAND. LEFT: DAMAGED BY STAINING. RIGHT: ILLUSTRATION OF ROUGH RUSSETING.
- 197 EARLY LEGRAND. STAINING. LEFT: APPEARANCE NOT MATERIALLY AFFECTED.

 RIGHT: DAMAGED. APPEARANCE MATERIALLY AFFECTED.
- 198 SUNRISE. SPECKLING. (DO NOT CONSIDER AS RUSSETING.)
- 199 SUNRISE. STAINING. APPEARANCE NOT MATERIALLY AFFECTED.

ONIONS

- 133 BABOSA GRANO. PERMISSIBLE SHAPES.
- 1 THROUGH 39 TRAINING SERIES.

ORANGES

- 95 SERIOUS DAMAGE BY DEEP SCAR U.S. NO. 3.
- 96 Scale Damage. Blotch exceeding area of 5/8" circle on 3" orange.

ORANGES, FLORIDA

- 174 FREEZING INJURY. FIRST CUT TO JUICE SACS.
- 175 Freezing Injury. First 1/4 inch cut permitted U.S. No. 1.
- 176 Freezing Injury. Second 1/4 Inch cut permitted as Damage.
- 177 Freezing Injury. Mushy condition in center of fruit.
- 178 LEFT: SCARRING. U.S. NO. 1. CENTER: RUSSETING. U.S. NO. 1. RIGHT: SCARRING. U.S. NO. 2.

PEACHES

- 8 SAN JOSE SCALE. LEFT: U.S. No. 2 (DISREGARD SCAB.) RIGHT: U.S. No. 1 (AGGREGATE 1/4" CIRCLE.)
- 9 SCAB. BOTH CULLS.
- 10 ENLARGED SEAMS. LOWER LIMIT U.S. No. 1 FOR VARIETIES CHARACTERISTICALLY HAVING RAISED SEAM.
- 14 IMMATURE. SCORE AGAINST ALL GRADES.
- 15 ORIENTAL PEACH MOTH (EXAGGERATED).
- 16 CURCULIO (HOLE EXAGGERATED). SHOWS YELLOWISH COLOR CHARACTERISTIC OF INJURY. SCORE AGAINST ALL GRADES.
- 17 CURCULIO INJURY. SCORE AGAINST ALL GRADES.
- 18 SPRAYBURN. UPPER TWO: SERIOUSLY DAMAGED. LOWER: DAMAGED.
- 19 DAMAGE BY SCARRING. LEFT: LIGHT SCAR EXCEEDING 1/2" AREA. RIGHT: NOT LIGHT COLORED.
- 20 SCARRING. LEFT: SERIOUS DAMAGE. RIGHT: DAMAGE.
- 21 SURFACE HAIL INJURY. LEFT: DAMAGE AREA EXCEEDS 1/4" CIRCLE. RIGHT:

- NOT DAMAGED (NO DEPTH).
- 22 DEEP HAIL INJURY. DAMAGE.
- 23 DEEP HAIL INJURY. LEFT: SERIOUS DAMAGE. RIGHT: DAMAGE.
- **24** COLD DAMAGE. SCORE AS DAMAGE ON APPEARANCE. CUT DOUBTFUL SPOTS TO SEE IF FLESH AFFECTED.
- 106 BACTERIAL SPOT. LEFT: DAMAGE. NOT U.S. No. 1. RIGHT: U.S. No. 1, LOWER LIMIT.
- 132 SHAPE. DUKE OF GEORGIA, MERRILL GEM OR SIMILAR VARIETIES. LEFT: UPPER LIMIT U.S. No. 2. RIGHT: U.S. No. 2.
- 230 SPLIT PIT. U.S. No. 2.
- 231 SPRAY INJURY. (SO CALLED SULPHUR BURN.) LOWER LIMIT U.S. NO. 1.
- 232 HAIL DAMAGE. MORE THAN ONE-FOURTH INCH. U.S. No. 2.
- 233 HAIL DAMAGE (DEEP). U.S. No. 2.
- 234 SCAB. BOTH U.S. NO. 1. LEFT: NEAR LOWER LIMIT.
- 235 SCAB. LEFT: DAMAGE ACCOUNT AREA. U.S. No. 2. RIGHT: SERIOUS DAMAGE ACCOUNT CRACKS. CULL.
- 236 BACTERIAL SPOT (CRACKED). U.S. No. 2.
- 237 BACTERIAL SPOT (CRACKED). LEFT: U.S. No. 2. RIGHT: CULL.
- 263 SMOOTH SCAR OVER 1/2" DIAMETER. U.S. NO. 2.
- 264 SMOOTH SCAR APPROXIMATELY 1/2" DIAMETER. NEAR LOWER LIMIT. U.S. NO. 1.
- 265 SPLIT PIT OVER 1/16" BUT LESS THAN 3/16" IN WIDTH, U.S. NO. 2.
- 267 SPLIT PIT 3/16" IN WIDTH. LOWER LIMIT U.S. No. 2.
- 268 SPLIT PIT SLIGHTLY OVER 3/16" IN WIDTH. CULL.
- 269 SPLIT PIT, VISIBLE PORTION LESS THAN 1/16" IN WIDTH. U.S. No. 1.
- 270 SPLIT PIT, STEM MISSING, OVER 3/16" IN WIDTH. CULL.
- 271 SCAB. OVER 3/8" AGGREGATE AREA. U.S. NO. 2.

- 272 SAN JOSE SCALE SPOTS, NO SCALE PRESENT, AGGREGATES LESS THAN 1/2"

 DIAMETER, BUT MATERIALLY DETRACTS FROM APPEARANCE. U.S. No. 2. (MORE SPOTS WITH LESS COLOR CONTRAST MIGHT AFFECT APPEARANCE LESS.)
- 273 HAIL SCAR. HEALED, SHALLOW, 1/4" DIAMETER. LOWER LIMIT U.S. No. 1.
- 275 ORIENTAL MOTH. SERIOUS DAMAGE TO INTERNAL FLESH. CULL.
- 281 BRUISE. 1/2" DIAMETER, 1/4" DEPTH. U.S. No. 2.
- 285 BRUISE. LESS THAN 1/2" DIAMETER, LESS THAN 3/16" DEPTH. U.S. No. 1.
- 286 BRUISE. 1/2" DIAMETER, 3/16" DEPTH. LOWER LIMIT U.S. No. 1.

PEANUTS

- 423 PEANUT KERNELS. SPOTTED FLESH DISCOLORATION. PASS NUMBERS 2 THROUGH 5.

 SCORE NUMBERS 7, 8, AND 12 AS "DAMAGED." REMAINDER "MINOR DEFECTS."
- **424** FARMERS' STOCK. RAISINS OR TWISTERS. *TOP ROW*: NOT RAISINS. *BOTTOM ROW*: RAISINS.
- 425 PEANUT KERNELS. ADHERING DIRT. PASS NUMBERS 1, 2, 3, AND 4. SCORE NUMBERS 8 AND 10 AS "DAMAGED." REMAINDER "MINOR DEFECTS."

PEANUTS - SAFETY SLIDE SERIES

1 THROUGH 27 - SAFETY SERIES.

PEANUTS - SAMPLING AND GRADING SERIES

1 THROUGH 38 - SAMPLING SERIES.

1 THROUGH 69 - GRADING SERIES.

PEARS

- 134 PEAR PSYLLA. THINLY SCATTERED.
- 135 PEAR PSYLLA. A. MODERATELY SCATTERED. B. HEAVILY CONCENTRATED.

- 238 ANJOU RUSSETING. BOTH SIDES SAME PEAR. LOWER LIMIT U.S. NO. 2. THICK RUSSETING. (NOT ROUGH.)
- 239 ANJOU RUSSETING. BOTH SIDES SAME PEAR. LOWER LIMIT U.S. No. 2.

 COMBINATION SLIGHTLY ROUGH AND SLIGHT "FROGGING."
- 240 ANJOU RUSSETING. BOTH SIDES SAME PEAR. LOWER LIMIT U.S. NO. 2. THICK RUSSETING.
- 241 ANJOU RUSSETING. BOTH SIDES SAME PEAR. UPPER LIMIT U.S. No. 2.

 COMBINATION SMOOTH SOLID AND SLIGHTLY ROUGH.
- 242 ANJOU RUSSETING. BOTH SIDES SAME PEAR. LOWER LIMIT U.S. No. 2.

 COMBINATION SMOOTH SOLID AND ROUGH.
- 243 ANJOU RUSSETING. BOTH SIDES SAME PEAR. U.S. NO. 2. (NOT A LIMIT). THICK RUSSETING AND LIMB SCRATCHES AGGREGATING MORE THAN 3/4".
- 244 ANJOU SHAPE. LOWER LIMIT U.S. No. 1.
- 245 ANJOU SHAPE. LOWER LIMIT U.S. No. 1.
- 246 ANJOU SHAPE. LOWER LIMIT U.S. No. 1.
- 258 BARTLETT. LENTICEL RUSSETING. U.S. No. 2. (NOT A LIMIT.)
- 259 BARTLETT. SPRAYBURN, APHID INJURY OR PSYLLA INJURY. LOWER LIMIT U.S. No. 2.
- 260 BARTLETT. BOTH SIDES SAME PEAR. COMBINATION SLIGHTLY ROUGH AND ROUGH RUSSETING. CULL.

PLUMS

107 SCARRING. BOTH PATTERNS CONSIDERED SCARRING.

POTATOES

(USDA VISUAL AID POT. L-1, JANUARY 1981).

BASIC REQUIREMENTS

FIRMNESS

- 1 NOT SHRIVELED OR FLABBY, U.S. NO. 1, MAXIMUM ALLOWED.
- 2 NOT SERIOUSLY SHRIVELED OR FLABBY, U.S. NO. 2, MAXIMUM ALLOWED.

CLEANNESS

- 3 CLEAN (DRY). MAXIMUM ALLOWED.*
- 4 CLEAN (WET). MAXIMUM ALLOWED.*
- 5 FAIRLY CLEAN (DRY). MAXIMUM ALLOWED.*
- 6 FAIRLY CLEAN (WET). MAXIMUM ALLOWED.*
- 7 SLIGHTLY DIRTY (DRY), U.S. NO. 2, NOT FAIRLY CLEAN.*
- 8 SLIGHTLY DIRTY (WET), U.S. No. 2, NOT FAIRLY CLEAN.*
- 9 NOT SERIOUSLY DAMAGED BY DIRT, U.S. NO. 2, MAXIMUM ALLOWED.*
- 10 NOT SERIOUSLY DAMAGED BY DIRT, U.S. NO. 2. MAXIMUM ALLOWED.*

SHAPE

- 11 WELL SHAPED, U.S. EXTRA NO. 1. MAXIMUM ALLOWED.
- WELL SHAPED, U.S. EXTRA NO. 1. MAXIMUM ALLOWED.
- 13 WELL SHAPED, U.S. EXTRA NO. 1. MAXIMUM ALLOWED.
- 14 FAIRLY WELL SHAPED, U.S. No. 1. MAXIMUM ALLOWED.
- 15 FAIRLY WELL SHAPED, U.S. NO. 1. MAXIMUM ALLOWED.
- 16 FAIRLY WELL SHAPED, U.S. NO. 1. MAXIMUM ALLOWED.
- 17 FAIRLY WELL SHAPED, U.S. NO. 1. MAXIMUM ALLOWED.
- 18 NOT SERIOUSLY MISSHAPEN, U.S. No. 2. MAXIMUM ALLOWED.
- 19 NOT SERIOUSLY MISSHAPEN, U.S. No. 2. MAXIMUM ALLOWED.
- 20 NOT SERIOUSLY MISSHAPEN, U.S. NO. 2. MAXIMUM ALLOWED.

^{*}EQUAL AMOUNT OR LESS ALLOWED ON OPPOSITE SIDE.

- 21 NOT SERIOUSLY MISSHAPEN, U.S. No. 2. MAXIMUM ALLOWED.
- NOT SERIOUSLY MISSHAPEN, U.S. No. 2. MAXIMUM ALLOWED.

SKINNING CLASSIFICATION

- 23 PRACTICALLY NO SKINNING.*
- 24 SLIGHTLY SKINNED.*
- 25 MODERATELY SKINNED.*
- 26 BADLY SKINNED.*

FREE FROM DEFECTS

(ANY AMOUNT SCORED AGAINST ALL GRADES)

- **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).

IDENTIFICATION ONLY

- 40 ALTERNARIA TUBER ROT (EARLY BLIGHT).
- 41 ALTERNARIA TUBER ROT (EARLY BLIGHT) CUT.
- 42 BLACKLEG.
- 43 BLACKLEG.

^{*}EQUAL AMOUNT OR LESS ALLOWED ON OPPOSITE SIDE.

- 44 CHARCOAL ROT.
- 45 CHARCOAL ROT.
- 46 CORKY RING SPOT.
- 47 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** *G*RASS.
- **55** GREENING.
- **56** *G*RUB.
- **57** *G*RUB.
- 58 HEAT OR WATER DAMAGE.
- **59** HEAT OR WATER DAMAGE.
- 60 INGROWN SPROUTS.
- 61 INGROWN SPROUTS CUT.
- 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.
- 74 PINK EYE.
- 75 PINK ROT.
- 76 PINK ROT.
- 77 RODENT DAMAGE.
- **78** SCAB, SURFACE.
- **79** SCLEROTIUM ROT.
- **80** SCLEROTIUM ROT CUT.
- **81** SILVER SCURF.
- **82** SILVER SCURF.
- 83 SKIN SPOTS.
- **84** SKIN SPOTS.
- **85** STEM END BROWNING.
- 86 SUNBURN.
- **87** SUNBURN CUT.
- **88** TUBER MOTH.
- **89** TUBER MOTH CUT.
- **90** VASCULAR DISCOLORATION.
- 91 VASCULAR DISCOLORATION.
- **92** WORM DAMAGE.
- 93 WORM DAMAGE CUT.

CLASSIFICATION OF DEFECTS

AIRCRACKS

- 94 U.S. No. 1. MAXIMUM ALLOWED.
- 95 U.S. No. 1. MAXIMUM ALLOWED.
- 96 U.S. No. 2. MAXIMUM ALLOWED.

BRUISES

- 97 U.S. No. 1. MAXIMUM ALLOWED.
- 98 U.S. No. 2. MAXIMUM ALLOWED.
- 99 U.S. No. 2. MAXIMUM ALLOWED.

CUTS

- 100 U.S. No. 1. MAXIMUM ALLOWED.
- 101 U.S. No. 1. MAXIMUM ALLOWED.

ENLARGED LENTICELS

- 105 U.S. No. 1. MAXIMUM ALLOWED.*
- 106 U.S. No. 1. MAXIMUM ALLOWED.*
- 107 U.S. No. 2. MAXIMUM ALLOWED.*

EXTERNAL DISCOLORATION

- 108 U.S. No. 1. MAXIMUM ALLOWED.
- 109 U.S. No. 1. MAXIMUM ALLOWED.
- 110 U.S. No. 1. MAXIMUM ALLOWED.*
- 111 U.S. No. 1. MAXIMUM ALLOWED.*
- 112 U.S. No. 2. MAXIMUM ALLOWED.*
- 113 U.S. No. 2. MAXIMUM ALLOWED.*

FOLDED END

- 114 U.S. No. 1. MAXIMUM ALLOWED.
- 115 U.S. No. 1. MAXIMUM ALLOWED.
- 116 U.S. No. 2. MAXIMUM ALLOWED.

117 U.S. No. 2. MAXIMUM ALLOWED.

GROWTH CRACKS

118 U.S. No. 1. MAXIMUM ALLOWED.

119 U.S. No. 2. MAXIMUM ALLOWED.

120 U.S. No. 2. MAXIMUM ALLOWED.

HOLLOW HEART

121 U.S. No. 1. MAXIMUM ALLOWED.

122 U.S. No. 2. MAXIMUM ALLOWED.

INTERNAL DISCOLORATION

123 U.S. No. 1. MAXIMUM ALLOWED.

124 U.S. No. 2. MAXIMUM ALLOWED.

RHIZOCTONIA

125 U.S. No. 1. MAXIMUM ALLOWED.*

126 U.S. No. 1. MAXIMUM ALLOWED.*

RUSSETING

(FOR NON-RUSSET TYPE POTATOES)

127 U.S. No. 1. MAXIMUM ALLOWED.*

128 U.S. No. 1. MAXIMUM ALLOWED.*

SCAB, PITTED

129 U.S. No. 1. MAXIMUM ALLOWED.

130 U.S. No. 2. MAXIMUM ALLOWED.

SECOND GROWTH

131 U.S. No. 1. MAXIMUM ALLOWED.

132 U.S. No. 1. MAXIMUM ALLOWED.

SKIN CHECKS

134 U.S. No. 1. MAXIMUM ALLOWED.*

135 U.S. No. 2. MAXIMUM ALLOWED.*

SPROUTS, CLUSTERS

136 U.S. No. 1. MAXIMUM ALLOWED.

FLATTENED OR DEPRESSED AREAS

137 U.S. No. 1. MAXIMUM ALLOWED.

SUNKEN DISCOLORED AREAS

138 U.S. No. 2. MAXIMUM ALLOWED.

SURFACE CRACKS

139 U.S. No. 1. MAXIMUM ALLOWED.

140 U.S. No. 1.*

141 U.S. No. 2. MAXIMUM ALLOWED.*

142 U.S. No. 2. MAXIMUM ALLOWED.

SCAB, RUSSET

143 U.S. No. 1. MAXIMUM ALLOWED.*

SWEETPOTATOES

- 228 CUCUMBER BEETLE INJURY. IDENTIFICATION ONLY.
- 229 CUCUMBER BEETLE INJURY. IDENTIFICATION ONLY.

TOMATOES

- 100 ALTERNARIA ROT AT STEM SCAR. IDENTIFICATION ONLY.
- 101 GHOST SPOT. NOT U.S. No. 1.
- 102 HOLLOW STEM. NOT U.S. No. 1. BOTH DAMAGED BY HOLLOW STEM.
- 223 BACTERIAL SPOT. IDENTIFICATION ONLY.
- 224 BACTERIAL SPOT AND SCAR. LOWER LIMIT U.S. No. 1.

^{*}EQUAL AMOUNT OR LESS ALLOWED ON OPPOSITE SIDE.

TOMATOES, GREENHOUSE

- 1 SHAPE, U.S. NO. 1, FAIRLY WELL FORMED, (MAXIMUM ALLOWED).
- 2 SHAPE, U.S. NO. 1, FAIRLY WELL FORMED.
- 3 SHAPE, U.S. NO. 2, REASONABLY WELL FORMED.
- 4 SHAPE, U.S. NO. 2, REASONABLY WELL FORMED.
- 5 SHAPE, U.S. NO. 2, REASONABLY WELL FORMED.
- 6 SHAPE, U.S. NO. 2, REASONABLY WELL FORMED, (MAXIMUM ALLOWED).
- 7 SHAPE, U.S. NO. 2, REASONABLY WELL FORMED, (MAXIMUM ALLOWED).
- 8 CULL.
- 9 CULL.
- 10 CULL.
- 11 CULL.

TOMATOES FOR PROCESSING

310 THROUGH 386. SEQUENCE ON COLOR EVALUATION INSPECTION, INCLUDING A-1 THROUGH A-9 (AGTRON COLORIMETER).

WATERMELONS

- **40** ILLUSTRATION OF MIXED VARIETIES.
- 41 LONG TYPE. LOWER LIMIT OF SHAPE FOR U.S. No. 2.
- 42 LONG TYPE. LEFT: UPPER LIMIT U.S. No. 2. CENTER: U.S. No. 2.
 - RIGHT: LOWER LIMIT U.S. NO. 1.
- 44 HAIL INJURY. ALL DAMAGED, U.S. NO. 2.
- 45 LEFT: DAMAGE BY SCARRING, U.S. NO. 2. RIGHT: DAMAGE BY HAIL, U.S. NO. 2.

- 46 RIND WORM INJURY. LEFT: DAMAGED. UPPER LIMIT U.S. NO. 2. RIGHT: SERIOUSLY DAMAGED. CULL.
- 47 WHITEHEART. SHOWING CHARACTERISTIC RIDGING. (SEE NO. 49.)
- WHITEHEART. SHOWING CHARACTERISTIC RIDGING. (SEE NO. 49.)
- WHITEHEART. SCOREABLE AGAINST ALL GRADES. (NOTE RIDGING, NUMBERS 47 & 48.)
- **50** WHITEHEART, CULL.
- WHITEHEART. SLIGHTLY AFFECTED AT END BUT PASSABLE AS U.S. No. 1, IF SUFFICIENT RED COLOR.
- 52 IMMATURE. EXTERNAL INDICATIONS.
- 54 IMMATURE. EXTERNAL INDICATIONS.
- **56** HOLLOW HEART. EXTERNAL INDICATIONS. (SEE No. 57.)
- 57 HOLLOW HEART. CULL. (SEE No. 56.)
- 58 HOLLOW HEART. EXTERNAL INDICATIONS. (SEE No. 59.)
- 59 HOLLOW HEART. CULL. (SEE No. 58.)
- 60 SUNBURN. DAMAGED (30 LB. MELONS.)
- 61 SUNSCALD. CULL.
- **62** DECAY FOLLOWING SUNBURN. FOR IDENTIFICATION.
- **63** ANTHRACNOSE. FOR IDENTIFICATION.
- **64** NOT ANTHRACNOSE. NOTE ABSENCE OF PITTING. SCORE ON APPEARANCE.
- 65 SHAPE. UPPER LIMIT, U.S. No. 2.
- 206 CHARLESTON GRAY. RIND WORM INJURY. LOWER LIMIT U.S. No. 1.
- 207 CHARLESTON GRAY. SCARRING, U.S. No. 1.
- 208 CHARLESTON GRAY. SCARRING, U.S. No. 2.
- 209 CHARLESTON GRAY. EXTERNAL INDICATION OF HOLLOW HEART. U.S. No. 1 FOR SHAPE.

- 210 CHARLESTON GRAY. HOLLOW HEART. U.S. No. 2.
- 211 DAMAGE BY RIND WORM. U.S. No. 2.
- 212 Shape (Charleston Gray and similar varieties) Lower limit U.S. No. 1.
- 213 CHARLESTON GRAY. EXTERNAL INDICATION OF IMMATURITY.