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USDA, AMS, FVP, SCI
831 MITTEN ROAD, ROOM 200
BURLINGAME, CA 94010
PHONE: 650-552-9073
FAX: 650-552-9147

EQUIPMENT CATALOG
INDEX OF OFFICIAL VISUAL AIDS FOR POTATOES (POT.-L-1)

The Official Visual Aids for Potatoes (POT.-L-1) is a compilation of visual aids issued from May 1998 to the present. Please ensure this index is added to the front of the Official Visual Aids for Potatoes (POT.-L-1) Binder.

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“SCI moving forward in the 21st Century using technology, innovation, and old fashioned hard work”

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UNIVERSAL STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

OFFICIAL VISUAL AIDS FOR
POTATOES

MAY 1998

FRUIT AND VEGETABLE PROGRAMS
FRESH PRODUCTS BRANCH
WASHINGTON, D.C. 20250
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### BASIC REQUIREMENTS

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**CLASSIFICATION OF DEFECTS**

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- U.S. No. 2: 96, 22

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- U.S. No. 1: 97, 22
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**ENLARGED LENTICELS**
- U.S. No. 1: 105-106, 23
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- U.S. No. 1: 108-111, 23-24
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\(^1\)See Potato Shipping Point and Market Inspection Instructions for illustrations 102-104.
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²See Potato Shipping Point and Market Inspection Instructions for illustration 133.
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) - Identification Only
   Not a basic requirement
   (July 2017)

4. Clean (wet) - Identification Only
   Not a basic requirement
   (July 2017)

5. Fairly clean (dry) - maximum allowed*

6. Fairly clean (wet) - maximum allowed*

*Equal amount or less allowed on opposite side.
CLEANNESS

Slightly dirty (dry)*

CLEANNESS

Slightly dirty (wet)*

CLEANNESS

Not seriously damaged by dirt
U.S. No. 2 - maximum allowed

SHAPE

Well Shaped - Identification Only
Not a basic requirement
(July 2017)

SHAPE

Well Shaped - Identification Only
Not a basic requirement
(July 2017)

*Equal amount or less allowed on opposite side.
Well Shaped - Identification Only
Not a basic requirement
(July 2017)

Fairly well shaped
U.S. No. 1 - maximum allowed

Fairly well shaped
U.S. No. 1 - maximum allowed

Fairly well shaped
U.S. No. 1 - maximum allowed

Not seriously misshapen
U.S. No. 2 - maximum allowed
SHAPE

Not seriously misshapen
U.S. No. 2 - maximum allowed

SHAPE

Not seriously misshapen
U.S. No. 2 - maximum allowed

SHAPE

Not seriously misshapen
U.S. No. 2 - maximum allowed

SHAPE

Not seriously misshapen
U.S. No. 2 - maximum allowed
SHAPE

U.S. No. 1 - maximum allowed

SHAPE

U.S. No. 2 - maximum allowed

SHAPE

U.S. No. 2 - maximum allowed
SKINNING CLASSIFICATIONS

Practically no skinning*

Slightly skinned*

Moderately skinned*

Badly skinned*

*Equal amount or less allowed on opposite side.

USDA Visual Aid POT.-L-1-May 1998
FREE FROM DEFECTS
Any amount scored against all grades.

Blackheart

Freezing injury (dry type)

Freezing injury (internal)

Freezing injury (wet-leaking)

Late Blight Tuber Rot
FREE FROM DEFECTS
Any amount scored against all grades.

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)

USDA Visual Aid POT.-L-1-May 1993
FREE FROM DEFECTS
Any amount scored against all grades.

Bacterial Soft Rot (Slimy Soft Rot)
Corky Ring Spot

Enlarged lenticels (raised)

Enlarged lenticels (coalesced)

Flea Beetle

USDA Visual Aid POT.-L-1-May 1998
Fusarium Tuber Rot

Fusarium Tuber Rot

Fusarium Tuber Rot

Fusarium Tuber Rot

Glassy End Rot (Jelly End Rot)

Grass

USDA Visual Aid POT.-L-1-May 1998
Silver Scurf

Silver Scurf

Silver Scurf

Skin spots

USDA Visual Aid POT.-L-1-May 1998
CLASSIFICATION OF DEFECTS

AIR CRACKS

U.S. No. 1 - maximum allowed

AIR CRACKS

U.S. No. 1 - maximum allowed

AIR CRACKS

U.S. No. 2 - maximum allowed

BRUISES

U.S. No. 1 - maximum allowed

BRUISES

U.S. No. 2 - maximum allowed

USDA Visual Aid POT.-L-1-May 1998
CLASSIFICATION OF DEFECTS

**CUTS**

U.S. No. 1 - maximum allowed

**ENLARGED LENTICELS**

U.S. No. 1 - maximum allowed*

U.S. No. 2 - maximum allowed*

**ENLARGED LENTICELS**

U.S. No. 1 - maximum allowed*

**EXTERNAL DISCOLORATION**

U.S. No. 1 - maximum allowed

*Equal amount or less allowed on opposite side.
CLASSIFICATION OF DEFECTS

EXTERNAL DISCOLORATION

U.S. No. 1 - maximum allowed

EXTERNAL DISCOLORATION

U.S. No. 1 - maximum allowed*

EXTERNAL DISCOLORATION

U.S. No. 2 - maximum allowed

EXTERNAL DISCOLORATION

U.S. No. 2 - maximum allowed*

FOLDED END

U.S. No. 1 - maximum allowed

*Equal amount or less allowed on opposite side.
CLASSIFICATION OF DEFECTS

HOLLOW HEART

U.S. No. 1 - maximum allowed

U.S. No. 2 - maximum allowed

HOLLOW HEART

U.S. No. 1 - within area allowed (14 ounce potato)

U.S. No. 1 - within area allowed (14 ounce potato)

HOLLOW HEART

Damage - exceeds area allowed (for U.S. No. 1 - 14 ounce potato)

Damage - exceeds area allowed (for U.S. No. 1 - 14 ounce potato)

Enlargement of 122a

Enlargement of 122c

USDA Visual Aid POT.-L-1-May 1998
HOLLOW HEART

Damage - exceeds area allowed
(for U.S. No. 1 - 20 ounce potato)

INTERNAL DISCOLORATION

U.S. No. 2 - maximum allowed

RHIZOCTONIA

U.S. No. 1 - maximum allowed

RUSSETTING
(for non-russet type potatoes)

U.S. No. 1 - maximum allowed*

*Equal amount or less allowed on opposite side.
CLASSIFICATION OF DEFECTS

RUSSETTING
(for non-russet type potatoes)

U.S. No. 1 - maximum allowed*

SCAB, Pitted

U.S. No. 1 - maximum allowed

SCAB, Pitted

U.S. No. 2 - maximum allowed

SECOND GROWTH

U.S. No. 1 - maximum allowed

SECOND GROWTH

U.S. No. 1 - maximum allowed

SKIN CHECKS

U.S. No. 1 - maximum allowed*

*Equal amount or less allowed on opposite side.
CLASSIFICATION OF DEFECTS

SKIN CHECKS

U.S. No. 2 - maximum allowed*

FLATTENED OR DEPRESSED AREAS

U.S. No. 1 - maximum allowed

SPROUTS, CLUSTERS

U.S. No. 1 - maximum allowed
(July 2017)

SUNKEN DISCOLORED AREAS

U.S. No. 2 - maximum allowed

SURFACE CRACKS

U.S. No. 1 - maximum allowed

SURFACE CRACKS

U.S. No. 1*

*Equal amount or less allowed on opposite side.
CLASSIFICATION OF DEFECTS

SKIN CHECKS

U.S. No. 2 - maximum allowed*

SPROUTS, CLUSTERS

U.S. No. 1 - maximum allowed

FLATTENED OR DEPRESSED AREAS

U.S. No. 1 - maximum allowed

SUNKEN DISCOLORED AREAS

U.S. No. 2 - maximum allowed

SURFACE CRACKS

U.S. No. 1 - maximum allowed

SURFACE CRACKS

U.S. No. 1*

*Equal amount or less allowed on opposite side.
CLASSIFICATION OF DEFECTS

SURFACE CRACKS

U.S. No. 2 - maximum allowed*

SCAB, RUSSET

U.S. No. 1 - maximum allowed*

*Equal amount or less allowed on opposite side.
Score netting which is rough and raised when affecting more than 50 percent of the surface as damage by "Rough Raised Netting." (Photograph enlarged to show detail.)
ELEPHANT HIDE

When skin is severely roughened, cracked, and scaled as shown, then score as:

Damage: When affecting over 10% of surface (black circle covers 10% of surface).
Serious Damage: When affecting over 25% of surface (red circle covers 25% of surface).
IDENTIFICATION ONLY

ELEPHANT HIDE

Early/Superficial Stage - Not Scorlable

Photo courtesy of Lane Selman, Oregon State University

USDA Visual Aid POT.-L-1-November 2013
SPROUT CLUSTERS ON POTATOES
(Examples only: Not minimum or maximum amounts allowed)

Not Scorabale  Damage  Serious Damage

Not Scorabale  Damage  Serious Damage

Not Scorabale  Damage  Serious Damage

USDA Visual Aid POT.-L-1 May 2015