

TR SMITTAL OF RULES ADOPTED

FROM: Department of Agriculture
(Name of Agency)

TO: CODE REVISER
LEGISLATIVE BLDG (Southwest Corner, Ground Floor)
Olympia 98501

The enclosed Permanent rules , being order No. 1263
Emergency rules

relating to (Name of rules or description of subject matter)

Standards for Potatoes

(ALTERNATIVE A. Use only for adoption of permanent rules)

pursuant to Notice No. 3409 ^① filed with the code reviser
on 3/23/72 ^② were regularly adopted as permanent rules of this
(date)
agency at Olympia, Washington on 5/15/72 and are herewith
(place) (date)
filed in the office of the code reviser pursuant to chapter 34.04
RCW. The effective date of such rules shall be 6/15/72 ^③

(ALTERNATIVE B. Use only for adoption of emergency rules)

pursuant to its finding that the immediate adoption of
these rules is necessary for the preservation of the public
health, safety, or general welfare and that observance of the
requirements of notice and opportunity to present views on
the proposed action would be contrary to the public interest,
were regularly adopted as emergency rules of this agency at
_____ on _____ and are herewith filed in
(place) (date)
the office of the code reviser pursuant to chapter 34.04 RCW.

The undersigned hereby certifies that the requirements of chapter
34.04 RCW and of the Open Public Meetings Act of 1971, chapter
42.30 RCW (1971 ex.s. c 250) have been fulfilled.

Dated this fifteenth day of May 1972.

STATE OF WASHINGTON
FILED
MAY 15 1972
CODE REVISER'S OFFICE
D. KET.# 407 FILE # 25

Department of Agriculture
(AGENCY)
Cameron S. Adams
By CAMERON S. ADAMS
Acting Director of Agriculture
Title

- ① NOTICE NUMBER AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY RE-
VISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE NO. OF LAST NOTICE)
- ② STAMPED DATE AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVIS-
ER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE DATE OF LAST NOTICE)
- ③ UNLESS A LATER DATE IS SPECIFIED IN THIS ORDER OR IS PRESCRIBED
IN ANOTHER STATUTE, RULES ARE EFFECTIVE 30 DAYS AFTER FILING:
RCW 34.04.040. LEAVE THIS SPACE BLANK EXCEPT IN SUCH SPECIAL CASES.

Chapter 16-448

STANDARDS FOR POTATOES

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
OLYMPIA
ORDER NO. 1263
(Superseding Order No. 363)
STANDARDS FOR POTATOES
Effective June 15, 1972

NEW

WAC 16-448-130 PROMULGATION. (This promulgation relates to Order No. 363, WAC 16-448-002, WAC 16-448-010, WAC 16-448-020, WAC 16-448-030, WAC 16-448-040, WAC 16-448-050, WAC 16-448-060, WAC 16-448-070, WAC 16-448-080, WAC 16-448-090, WAC 16-448-100, WAC 16-448-110, and WAC 16-448-120.)

I, Cameron S. Adams, acting director of agriculture of the state of Washington, by virtue of the authority vested in me under Chapter 15.17 RCW and after due notice as provided under Chapter 34.04 and 42.32 RCW, and a public hearing held in Moses Lake, Washington, on April 25, 1972, do hereby promulgate the following regulations relating to Washington standards for potatoes. (Repealing order No. 363)

NEW

WAC 16-448-135 APPLICABILITY. Application and when mandatory.
(1) This order is applicable to potatoes grown in the state of Washington.
(2) Effective and mandatory when packed or marketed within the state of Washington.

NEW

WAC 16-448-140 WASHINGTON NO. 1 GRADE. Shall consist of potatoes which meet the following requirements.
(1) Similar varietal characteristics.
(2) Firm.
(3) Fairly clean.
(4) Fairly well shaped.
(5) Free from:
(a) Freezing.
(b) Blackheart.
(c) Late blight, southern bacterial wilt and ring rot.
(d) Soft rot and wet breakdown.
(6) Free from damage by any other cause. See WAC 16-448-185.
(7) Size. Not less than 1-7/8 inches in diameter, unless otherwise specified in connection with the grade.
(8) For tolerances see WAC 16-448-165.

NEW

WAC 16-448-145 WASHINGTON COMMERCIAL. Shall consist of potatoes which meet the requirements of Washington No. 1 grade except for the following:
(1) Free from serious damage caused by:
(a) Dirt or other foreign matter.
(b) Russet scab.
(c) Rhizoctonia.
(2) Size. Not less than 1-7/8 inches in diameter unless otherwise specified in connection with the grade.
(3) Increased tolerances for defects specified in WAC 16-448-165.

NEW

WAC 16-448-150 WASHINGTON NO. 2. Shall consist of potatoes which meet the following requirements.

- (1) Similar varietal characteristics.
- (2) Not seriously misshapen.
- (3) Free from:
 - (a) Freezing.
 - (b) Blackheart.
 - (c) Late blight, southern bacterial wilt and ring rot.
 - (d) Soft rot and wet breakdown.
- (4) Free from serious damage by any other cause. See WAC 16-448-185.
- (5) Size. Not less than 1-1/2 inches in diameter, unless otherwise specified in connection with the grade.
- (6) For tolerances see WAC 16-448-165.

NEW

WAC 16-448-155 CULLS. Potatoes which are not graded in conformity with the foregoing grades and which contain not more than 3 percent serious insect or disease damage shall be designated as "culls".

NEW

WAC 16-448-160 SIZE. (1) The minimum size, or minimum and maximum sizes may be specified in connection with the grade in terms of diameter or weight of the individual potato, or in accordance with one of the size designations in Table I or Table II: PROVIDED, That sizes so specified shall not be in conflict with the basic size requirements for the grade.

(2) When size is specified in terms of the customary sizes of potatoes packed to count in standard 50-pound cartons, the weight ranges shown in Table II shall apply. These size designations may be applied to potatoes packed in any size container: PROVIDED, That the weight ranges are within the limits specified.

TABLE I

Size Designation	Minimum Diameter(1) or weight		Maximum Diameter(1) or weight	
	Inches	Ounces	Inches	Ounces
Size A(2)	1-7/8	(3)	(3)	(3)
Size B	1-1/2	(3)	2-1/4	(3)
Small	1-3/4	(3)	2-1/2	6
Medium	2-1/4	5	3-1/4	10
Large	3	10	4-1/4	16

- (1) Diameter means the greatest dimension at right angles to the longitudinal axis, without regard to the position of the stem end.
- (2) In addition to the minimum size specified, a lot of potatoes designated as Size A shall contain at least

- 40 percent of potatoes which are 2-1/2 inches in diameter or larger or 6 ounces in weight or larger.
 (3) No requirement.

TABLE II

Size designation	Minimum Weight	Maximum Weight
	ounces	ounces
Under 50	15	.....
50	12	19
60	10	16
70	9	15
80	8	13
90	7	12
100	6	10
110	5	9
120	4	8
130	4	8
140	4	8
Over 140	4	8

NEW

WAC 16-448-165 TOLERANCES. In order to allow for variations incident to proper grading and handling in each of the foregoing grades, the following tolerances, by weight, are provided as specified.

(1) Washington No. 1. A total of 8 percent for potatoes in any lot which fail to meet the requirements for the grade: PROVIDED, That included in this tolerance not more than the following percentages shall be allowed for the defects listed:

- (a) 5 percent for external defects.
- (b) 5 percent for internal defects.
- (c) 3 percent for potatoes which are affected by freezing, southern bacterial wilt, ring rot, late blight, soft rot or wet breakdown, including therein not more than 1 percent for potatoes which are frozen or affected by soft rot or wet breakdown. See WAC 16-448-170.

(2) Washington Commercial. A total of 20 percent for potatoes in any lot which fail to meet the requirements for the grade: PROVIDED, That included in this tolerance not more than the following percentages shall be allowed for the defects listed:

- (a) 10 percent for potatoes which fail to meet the requirements for Washington No. 2 grade, including therein not more than:
 - (i) 6 percent for external defects.
 - (ii) 6 percent for internal defects.
 - (iii) 3 percent for potatoes which are affected by freezing, southern bacterial wilt, ring rot, late blight, soft rot or wet breakdown, including therein not more than 1 percent for potatoes which are frozen or affected by soft rot or wet breakdown. See WAC 16-448-170.

(3) Washington No. 2. A total of 10 percent for potatoes in any lot which fail to meet the requirements for the grade: PROVIDED, That included in this tolerance not more than the

following percentages shall be allowed for the defects listed:

- (a) 6 percent for external defects.
- (b) 6 percent for internal defects.
- (c) 3 percent for potatoes which are affected by freezing, southern bacterial wilt, ring rot, late blight, soft rot or wet breakdown, including therein not more than 1 percent for potatoes which are frozen or affected by soft rot or wet breakdown. See WAC 16-448-170.

(4) For off-size. (a) Not more than 3 percent of the potatoes in any lot may be smaller than the required or specified minimum size except that a tolerance of 5 percent shall be allowed for potatoes packed to meet a minimum size of 2-1/4 inches or larger in diameter or 5 ounces or more in weight. In addition, not more than 10 percent may be larger than any required or specified maximum size. See WAC 16-448-170.

(b) When a percentage of the potatoes is specified to be of a certain size and larger, individual samples shall have not less than one-half of the percentage specified: PROVIDED, That the average for the entire lot is not less than the percentage specified.

NEW

WAC 16-448-170 APPLICATION OF TOLERANCES. Individual samples shall have not more than double the tolerances specified, except that at least one defective and one off-size potato may be permitted in any sample: PROVIDED, That en route or at destination one-tenth of the samples may contain three times the tolerance permitted for potatoes which are frozen or affected by soft rot or wet breakdown: AND PROVIDED FURTHER, That the averages for the entire lot are within the tolerances specified for the grade.

NEW

WAC 16-448-175 SAMPLES FOR GRADE AND SIZE DETERMINATION. Individual samples shall consist of at least 20 pounds. When individual packages contain at least 20 pounds, each individual sample is drawn from one package; when packages contain less than 20 pounds, a sufficient number of adjoining packages are opened to provide at least a 20-pound sample. The number of such individual samples drawn for grade and size determination will vary with the size of the lot.

NEW

WAC 16-448-180 SKINNING. The following definitions provide a basis for describing lots of potatoes as to the degree of skinning whenever description may be appropriate.

(1) "Practically no skinning" means that not more than 5 percent of the potatoes in the lot have more than one-tenth of the skin missing or "feathered".

(2) "Slightly skinned" means that not more than 10 percent of the potatoes in the lot have more than one-fourth of the skin missing or "feathered".

(3) "Moderately skinned" means that not more than 10 percent of the potatoes in the lot have more than one-half of the skin missing or "feathered".

(4) "Badly skinned" means that more than 10 percent of the

potatoes in the lot have more than one-half of the skin missing or "feathered".

NEW

WAC 16-448-185 DEFINITIONS.

(1) "Similar varietal characteristics" means that the potatoes in any lot have the same general shape, color and character of skin, and color of flesh.

(2) "Firm" means that the potato is not shriveled or flabby.

(3) "Fairly clean" means that at least 90 percent of the potatoes in any lot are reasonably free from dirt or staining and not more than a slight amount of loose dirt or foreign matter is present in the container.

(4) "Mature" means that the skins of the potatoes are generally firmly set and not more than 5 percent of the potatoes in the lot have more than one-tenth of the skin missing or "feathered".

(5) "Fairly well matured" means that the skins of the potatoes are generally fairly firmly set and not more than 10 percent of the potatoes in the lot have more than one-fourth of the skin missing or "feathered".

(6) "Well shaped" means that the potato has the normal shape of the variety.

(7) "Fairly well shaped" means that the potato is not materially pointed, dumbbell-shaped or otherwise materially deformed.

(8) "Seriously misshapen" means that the potato is seriously pointed, dumbbell-shaped or otherwise badly deformed.

(9) "Damage" means any defect, or any combination of defects, which materially detracts from the edible or marketing quality, or the internal or external appearance of the potato, or any external defect which cannot be removed without a loss of more than 5 percent of the total weight of the potato. See Tables III and IV.

(10) "Serious damage" means any defect, or any combination of defects, which seriously detracts from the edible or marketing quality, or the internal or external appearance of the potato, or any external defect which cannot be removed without a loss of more than 10 percent of the total weight of the potato. See Tables III and IV.

(11) "Freezing" means that the potato is frozen or shows evidence of having been frozen.

(12) "Soft rot or wet breakdown" means any soft, mushy, or leaky condition of the tissue such as slimy soft rot, leak, or wet breakdown following freezing injury.

(13) "External defects" are defects which can be detected externally. However, cutting may be required to determine the extent of the injury. Some external defects are listed in Table III.

(14) "Internal defects" are defects which cannot be detected without cutting the potato. Some internal defects are listed in Table IV.

TABLE III - EXTERNAL DEFECTS

DEFECTS	DAMAGE		SERIOUS DAMAGE	
	When ma- ^{or} terially detracting from appearance of potato	When removal causes loss of more than 5 percent of total weight of potato	When seri- ^{or} ously detracting from appearance of potato	When removal causes loss of more than 10 percent of total weight of potato
Air Cracks	... X ...	.....	... X ...	.....
Bruises	... X ...	... X ...	... X ...	... X ...
Dirt	... X ...	.....	... X ...	.....
Enlarged lenticels	... X ...	.....	... X ...	.....
External Discoloration	... X ...	.....	... X ...	.....
Flea Beetle injury	... X ...	... X ...	... X ...	... X ...
Greening	... X ...	... X ...	... X ...	... X ...
Rhizoctonia	... X ...	.....	... X ...	.....
Scab, pitted	... X ...	... X ...	... X ...	... X ...
Scab, russet	... X ...	.....	... X ...	.....
Scab, surface.....	When more than 5 percent of surface affected.	.....	When more than 25 percent of surface affected.	.....
Sunburn	.....	... X ...	.....	... X ...
Second growth	... X ...	.....	... X ...	.....
Growth cracks	... X ...	.....	... X ...	.....

Defect	Damage	Serious Damage ¹
Wireworm or grass damage	When any hole in a potato 2-1/2 inches in diameter or 6 ounces in weight is more than 3/4 inch long, or when the aggregate length of all holes is more than 1-1/4 inches, or correspondingly shorter or longer holes in smaller or larger potatoes.	When any hole in a potato 2-1/2 inches in diameter or 6 ounces in weight is more than 1-1/2 inches long, or when the aggregate length of all holes is more than 2 inches, or correspondingly shorter or longer holes in smaller or larger potatoes.
Insects or worms	(See Serious Damage)	When present inside the potato.
Artificial coloring	When unsightly or when concealing any defect causing damage or when penetrating the flesh and removal causes loss of more than 5 percent of total weight of potato.	When concealing a serious defect or when penetrating into the flesh and removal causes loss of more than 10 percent of total weight of potato.
Sprouts	When more than 10 percent of the potatoes in any lot have any sprout more than 3/4 inch in length or have individual sprouts or clusters of sprouts which materially detract from the appearance of the potato.	

¹The following defects are considered serious damage when present in any degree:

- a. Freezing.
- b. Late blight.
- c. Ring rot.
- d. Southern bacterial wilt.
- e. Soft rot.
- f. Wet breakdown.

TABLE IV - INTERNAL DEFECTS

Defect	Damage	Serious Damage
Hollow Heart	When materially detracting from the internal appearance.	When seriously detracting from the internal appearance.
Ingrown sprouts	When removal causes a loss of more than 5 percent of the total weight of the potato.	When removal causes a loss of more than 10 percent of the total weight of the potato.
Internal discoloration occurring entirely within the vascular ring.	When more than the equivalent of 3 scattered light brown spots 1/8 inch in diameter in a potato 2-1/2 inches in diameter or 6 ounces in weight, or correspondingly lesser or greater number of spots in smaller or larger potatoes.	When more than the equivalent of 6 scattered light brown spots 1/8 inch in diameter in a potato 2-1/2 inches in diameter or 6 ounces in weight, or correspondingly lesser or greater number of spots in smaller or larger potatoes.
Internal discoloration outside of or not entirely confined within the vascular ring.	When removal causes a loss of more than 5 percent of the total weight of the potato.	When removal causes a loss of more than 10 percent of the total weight of the potato.

NEW

WAC 16-448-190 MARKING REQUIREMENTS.

(1) The containers shall bear the name of the grower, packer or distributor and his address and the net weight. When potatoes are marked as to grade, such potatoes shall meet the grade marked.

(2) All containers shall be marked, labeled or stenciled in a plain and legible manner.

(3) All cull potatoes which are offered for market for human consumption, shall be designated as CULL POTATOES, and the containers in which such potatoes are marketed or offered for market shall be legibly branded, marked, labeled, or stenciled in a plain and legible manner with the words CULL POTATOES in block type letters at least two inches high. This does not apply to potatoes going to processing plants for processing purposes.

NEW

WAC 16-448-195 FORBIDDEN PRACTICES. In filling the bags and displaying of stock, containers must not be faced with potatoes of superior quality and size to the remaining contents of the container. All bags must be sufficiently well sewn to retain the contents thereof through the regular process of handling and shipping. When potatoes are exposed for sale, they must not be advertised as any other standard or grade than those laid down by the above regulations for potatoes shipped in containers: PROVIDED, That U. S. grades must be made.


NEW

WAC 16-448-200 EFFECTIVE DATE. This order shall take effect on and after June 15, 1972.

REP

Order No. 363, WAC 16-448-002, WAC 16-448-010, WAC 16-448-020, WAC 16-448-030, WAC 16-448-040, WAC 16-448-050, WAC 16-448-060, WAC 16-448-070, WAC 16-448-080, WAC 16-448-090, WAC 16-448-100, WAC 16-448-110, and WAC 16-448-120 is hereby repealed.

I hereby certify that the foregoing is a true and correct copy of the regulations promulgated.


CAMERON S. ADAMS
Acting Director of Agriculture
State of Washington

Signed at Olympia, Washington

Date: May 15, 1972