

NEW JERSEY STANDARD FOR POTATOES

New Jersey Super No. 1 Grade

INTRODUCTION

Numbers and letters in parentheses following grade terms indicate where such terms are defined under Definitions of Terms.

All percentages shall be calculated on the basis of weight.

The tolerances for this standard are on a container basis. However, if the averages for the entire lot, based on sample inspection, are within the tolerances specified in the standard, individual packages in the lot may contain double the tolerance specified for defective or undersize potatoes but no sample may contain more than four times the tolerance for soft rot or wet breakdown except that at least one defective specimen shall be permitted in a package.

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New Jersey Super No. 1 shall consist of potatoes of one variety or similar varietal characteristics (1), which are fairly well matured (2), fairly clean (3), fairly bright (4), fairly well shaped (5), and free from black heart, blight, shriveling (6), and soft rot or wet breakdown (7), and from injury (8), caused by freezing, scald, dirt or other foreign matter and from damage (9), caused by sunburn, second growth or growth cracks (a), air cracks (b), hollow heart, internal discoloration (c), cuts, sprouting (d), scab (e), dry rot, rhizoctonia (f), other disease, wireworm (g), other insects or mechanical or other means.

Tolerances for defects - In order to allow for variations, other than size, incident to proper grading and handling, not more than 6% of the potatoes in any container may be below the requirements of the grade but not to exceed 1/6 of this amount or 1 percent, shall be allowed for potatoes affected by soft rot or wet breakdown. In addition, not more than 5 percent may be damaged by hollow heart and/or internal discoloration.

SIZE

Unless otherwise specified (See "Other Sizes"), the diameter of each potato shall be not less than $2\frac{1}{4}$ inches for round or intermediate shaped varieties such as Irish Cobbler, Bliss Triumph, Katahdin, Chippewa, Green Mountain or other similar varieties and not less than 2 inches for long varieties such as Burbank, Russett Burbank, Early Ohio, Pride of Wisconsin or other similar varieties.

Diameter means the greatest dimension at right angles to the long or longitudinal axis. The long axis shall be used without regard to the position of the stem (rhizome).

Other Sizes - When potatoes are designated as N. J. Super No. 1 without specifying a size classification, it is understood that the potatoes meet the minimum size specified in the grade; however, it is permissible to specify other minimum sizes larger than the minimum size specified in the grade such as " $2\frac{1}{2}$ inches minimum", " $2\frac{3}{4}$ inches minimum", for round or intermediate shaped varieties, or " $2\frac{1}{4}$ inches minimum", " $2\frac{1}{2}$ inches minimum" for long varieties, or both a minimum and a maximum size for all varieties such as " $2\frac{1}{4}$ to 3 inches" (round); "2 to $2\frac{3}{4}$ inches" (long).

Tolerances for size - In order to allow for variations incident to proper sizing, not more than 5 percent of the potatoes in any container may be below the specified minimum size. In addition, not more than 15 percent may be above any specified maximum size.

DEFINITIONS OF TERMS

1. "Similar varietal characteristics" means that the potatoes have the same general characteristics as to shape and appearance.
2. "Fairly well matured" means that the potatoes are firm but the skin has not developed the toughness or tightness of mature stock.
3. "Fairly clean" means that from the viewpoint of general appearance the potatoes in the container are reasonably free from dirt or other foreign matter and that individual potatoes are not materially caked with dirt or materially stained.
4. "Fairly bright" means that the potatoes are reasonably free from dirt or other foreign matter and that the outer skin (epidermis) has a fairly attractive color normal of the variety.
5. "Fairly well shaped" means that the appearance of the individual potato or the general appearance of the potatoes in the container is not materially injured by pointed, dumb-belled shaped or otherwise ill-formed potatoes.
6. "Shriveling" means that the outer skin (epidermis) shows wrinkles or creases or the potato is slightly spongy or flabby.
7. "Soft rot or wet breakdown" means any soft, mushy or leaky condition of the tissues such as slimy soft rot, leak or wet breakdown following freezing injury or scald.
- 8. "Injury" means any defect which more than slightly affects the shipping quality or the appearance of the individual potato or the general appearance of the potatoes in the container, or which cannot be removed without a loss of more than 2 percent of the potato including peel covering defective area.

9. "Damage" means any injury or defect which materially injures the shipping quality or the appearance of the individual potato or the general appearance of the potatoes in the container, or which cannot be removed without a loss of more than 5 percent of the total weight of the potato including peel covering defective area. Slight loss of outer skin shall not be considered as damage. Any one of the following defects or any combination of defects the seriousness of which exceeds the maximum allowed for any one defect shall be considered as damage:

(a) Second growth or growth cracks which have developed to such an extent as to materially injure the appearance of the individual potato or the general appearance of the potatoes in the container.

(b) Air cracks which are deep, or shallow air cracks which materially injure the appearance of the individual potato or the general appearance of the potatoes in the container.

(c) Internal discoloration such as is caused by net necrosis or any other type of necrosis, stem end browning, internal brown spot, or other similar types of discoloration not visible externally, except black-heart.

(d) Sprouting when more than 10 percent of the potatoes have sprouts over three-fourths of an inch long.

(e) Surface scab which covers an area of more than 5 percent of the surface of the potato in the aggregate. Pitted scab which affects the appearance of the potato to a greater extent than the amount of surface scab permitted or causes a loss of more than 5 percent of the total weight of the potato including peel covering defective area.

(f) Rhizoctonia when the general appearance of the potatoes in the container is materially injured or when individual potatoes are badly infected.

(g) Wireworm, grass root or similar injury when any hole or when the aggregate of all holes cannot be removed by proper trimming without causing a loss of more than 5 percent of the total weight of the potato or provided that the removal of the injury by proper trimming does not materially injure the appearance of such potatoes.

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