

Grading scale for produce (Tomato) quality and yield

USDA guidelines

Size Designations	Weight (grams)
Small	<227
Standard	227-340
Large	>340

*** too small tomatoes were not counted/measured.

Size Designations	Minimum Diameter (inches)	Maximum Diameter (inches)
Small	2-4/32	2-9/32
Medium	2-8/32	2-17/32
Large	2-16/32	2-25/32
Extra Large	2-24/32	

Color Classification	
Green	Completely green
Breakers	definite break in color from green to tannish-yellow, pink or red on not more than 10 percent of the surface
Turning	more than 10 percent but not more than 30 percent of the surface, in the aggregate, shows a definite change in color from green to tannish-yellow, pink, red, or a combination thereof
Pink	more than 30 percent but not more than 60 percent of the surface, in the aggregate, shows pink or red color
Light Red	more than 60 percent of the surface, in the aggregate, shows pinkish-red or red: Provided, That not more than 90 percent

	of the surface is red color
Red	more than 90 percent of the surface, in the aggregate, shows red color

Appearance	
A) Similar varietal characteristics	are alike as to firmness of flesh and shade of color
B) Mature	reached the stage of development which will insure a proper completion of the ripening process
C) Soft	yields readily to slight pressure
D) Clean	practically free from dirt or other foreign material
E) Well developed	shows normal growth
F) Fairly well formed	is not more than moderately deformed in any way.
G) Fairly smooth	not conspicuously ridged or rough
H) Damage	Table 2
I) Reasonably well formed	is not decidedly deformed
J) Slightly rough	not decidedly ridged or grooved
K) Serious damage	Table 2
L) Misshapen	is decidedly deformed
M) Very serious damage	Table 2

Table II

References to Area, Aggregate Area, Length or Aggregate Length are based on a tomato having a diameter of 2-1/2 inches (64 mm)¹

Factor	Damage	Serious Damage	Very serious damage
Cuts and broken skins	Not shallow or not well healed, or shallow, well healed cut more than 1/2 inch (13 mm) in length, or other shallow, well healed skin breaks aggregating more than a circle 3/8 inch (10 mm) in diameter.	Not shallow or not well healed, or shallow, well healed cut more than 1/2 inch (13 mm) in length, or other shallow, well healed skin breaks aggregating more than a circle 1/2 inch (13 mm) in diameter.	Fresh or healed and extending through the tomato wall.
Puffiness	Open space in 1 or more locules materially detracts from appearance of tomato cut through center at right angles to a line from stem to blossom end.	Open space in 1 or more locules seriously detracts from appearance of tomato cut through center at right angles to a line from stem to blossom end.	Open space in 2 or more locules very seriously detracts from appearance of tomato cut through center at right angles to a line from stem to blossom end.
Catfaces	Scars are rough or deep, channels are very deep or wide, channels extend into a locule, or a fairly smooth catface aggregating more than a circle 1/2 inch (13 mm) in diameter.	Scars are rough or deep, channels are very deep or wide, channels extend into a locule, or a fairly smooth catface aggregating more than a circle 3/4 inch (19 mm) in diameter.	Channels extend into the locule, wall has been weakened to the extent that slight pressure will cause a tomato to leak, or a fairly smooth catface aggregating more than a circle 1 inch (25 mm) in diameter.
Scars (other than catfaces).	No depth and aggregating more than a circle 3/8 (10 mm) in diameter.	No depth and aggregating more than a circle 5/8 (16 mm) in diameter.	No depth and aggregating more than a circle 1 inch (25 mm) in diameter.

Growth cracks (radiating from or concentric to stem scar).	Not well healed, more than 1/8 inch (3 mm) in depth, individual radial cracks more than 1/2 inch (13 mm) in length, aggregate length of all radial cracks more than 1 inch (25 mm) measured from edge of stem scar. Any lot of tomatoes which are at least turning may have cracks which are not well healed provided they are not leaking.	Not well healed, more than 1/8 inch (3 mm) in depth, individual radial cracks more than 3/4 inch (19 mm) in length, aggregate length of all radial cracks more than 1-3/4 inch (44 mm) measured from edge of stem scar. Any lot of tomatoes which are at least turning may have cracks which are not well healed provided they are not leaking.	Not well healed, more than 1/4 inch (6 mm) in depth, individual radial cracks more than 1 inch (25 mm) in length, aggregate length of all radial cracks more than 2-7/8 inches (73 mm) measured from edge of stem scar. Any lot of tomatoes which are at least turning may have cracks which are not well healed provided they are not leaking, not more than 1/8 inch (3 mm) in depth, individual radial cracks are not more than 3/4 inch (19 mm) in length.
Hail	Deep, rough, not well healed and corked over, or fairly smooth, shallow hail marks aggregating more than a circle 3/8 inch (10 mm) in diameter.	Deep, rough, not well healed and corked over, or fairly smooth, shallow hail marks aggregating more than a circle 5/8 inch (16 mm) in diameter.	Fresh, very deep or fairly smooth, shallow hail marks aggregating more than a circle 1 inch (25 mm) in diameter.
Insect Injury	Materially detracts from the appearance or any insect is present in the fruit.	Seriously detracts from the appearance or any insect is present in the fruit.	Very seriously detracts from the appearance or any insect is present in the fruit.

¹Conversion to metric equivalent, made to nearest whole millimeter.

Grading scale for produce (pepper) quality and Yield

Size Designations	Weight (grams)
small	<120
standard	120-150
Large	>150

Size Designations	Minimum Width + Height (inches)	Maximum Width + Height (inches)
small	<2- $\frac{1}{2}$	<2- $\frac{1}{2}$
standard	2- $\frac{1}{2}$	4- $\frac{1}{2}$
Large	>4- $\frac{1}{2}$	

Color Classification	
Green	Uniform green coloration or predominantly green
Red	Coloration is predominantly red and no longer showing much to any green

Appearance	
A) Mature Green	has reached the stage of development that will withstand normal handling and shipping
I) Similar varietal characteristics	is of the same general type
B) Firm	is not soft, shriveled, limp or pliable, although it may yield to slight pressure
C) Well shaped	is not more than slightly curved, slightly indented or not otherwise more than slightly misshapen
D) Injury	Table 1
E) Fairly well shaped	may be more than slightly indented or curved, but is not of the type commonly known as "button" or is not decidedly crooked, constricted or deformed
F) Damage	Table 1
G) Not seriously misshapen	is not badly indented, crooked, constricted or otherwise badly deformed
H) Serious damage	Table 1

Table 1:

Injury:

- (a) Scars when scattered over the surface and aggregating more than the area of a circle five-eighths inch in diameter or one scar three-eighths inch in diameter on a pepper 3-1/2 inch in length and 3 inches in diameter, or correspondingly greater areas of scars on larger peppers;
- (b) Sunburn when causing discoloration which affects an aggregate area exceeding 5 percent of the surface of the pepper;
- (c) Bacterial Spot when aggregating more than the area of a circle five-eighths inch in diameter on a pepper 3-1/2 inch in length and 3 inches in diameter, or correspondingly greater areas of spots on larger peppers; and,
- (d) Hail or similar injury when the skin is healed and the affected areas aggregate more than the equivalent of a circle three-eighths inch in diameter on a pepper 3-1/2 inch in length and 3 inches in diameter, or correspondingly greater areas of injury on larger peppers.

Damage:

- (a) Scars when scattered over the surface and aggregating more than the area of a circle five-eighths inch in diameter or one scar three-eighths inch in diameter on a pepper 2-1/2 inch in length and 2-1/2 inches in diameter, or correspondingly lesser or greater areas of scars on smaller or larger peppers;
- (b) Sunburn when causing discoloration which affects an aggregate area exceeding 15 percent of the surface of the pepper;

(c) Bacterial Spot when aggregating more than the area of a circle five-eighths inch in diameter on a pepper 2-1/2 inch in length and 2-1/2 inches in diameter, or correspondingly lesser or greater areas of spots on smaller or larger peppers; and,

(d) Hail or similar injury when the skin is healed and the affected areas aggregate more than the equivalent of a circle three-eighths inch in diameter on a pepper 2-1/2 inch in length and 2-1/2 inches in diameter, or correspondingly lesser or greater areas of injury on smaller or larger peppers.

Serious Damage:

(a) Sunscald;

(b) Any opening or puncture through the fleshy wall of the pepper;

(c) Scars when scattered over the surface and aggregating more than the area of a circle 1 inch in diameter or one scar three-fourths inches in diameter on a pepper 2-1/2 inch in length and 2-1/2 inches in diameter, or correspondingly lesser or greater areas of scars on smaller or larger peppers;

(d) Sunburn when causing discoloration which affects an aggregate area exceeding 25 percent of the surface of the pepper;

(e) Bacterial Spot when aggregating more than the area of a circle 1 inch in diameter on a pepper 2-1/2 inch in length and 2-1/2 inches in diameter, or correspondingly lesser or greater areas of spots on smaller or larger peppers; and,

(f) Decay affecting stems only

Grading scale for produce (Lettuce) quality and Yield

Size Designations	Weight (grams)
small	<150
standard	150-250
Large	<250

Appearance	
A) Similar varietal Characteristics	the plants in the lot are of the same general type, texture and color
B) Well Developed	the plant shows normal growth and shape, and is not stunted or overgrown
C) Well Trimmed	the butt is trimmed off to within one-half inch of the point of attachment of the first whorl of leaves
D) Fairly Well Trimmed	the butt is trimmed off to within three-fourths inch of the point of attachment of the first whorl of leaves
E) Reasonably Well Trimmed	the butt is trimmed off to within one inch of the point of attachment of the first whorl of leaves
F) Injury	(a) Broken midribs when affecting 1 or more leaves. (b) Bruising when 2 or more leaves are slightly affected or slightly discolored by bruising. (c) Dirt or

	<p>foreign material when slightly affects 1 or more leaves. (d) Discoloration when brown to black exceeds an aggregate area of 1/2 inch by 1 inch. (e) Downy Mildew when exceeds an aggregate area of 1/2 inch by 1 inch. (f) Insects or worms when any live or dead insects or worms or when excreta is present, or when 2 or more holes are present. (g) Mechanical when cut or torn more than an aggregate of 1-1/2 inches. (h) Russet Spotting when present in any amount. (i) Seedstems when more than 1 inch in length, measured from the point of attachment to the tip of the seedstem. (j) Tipburn when light buff or darker color exceeds an aggregate area of 1/2 inch by 1 inch. (k) Watersoaked when exceeds an aggregate area of 1 inch by 1-1/2 inches. (l) Yellowing when exceeds an aggregate area of 1 inch by 1-1/2 inches.</p>
<p>G) Damage</p>	<p>(a) Broken midribs when affecting 3 or more leaves. (b) Bruising when 2 or more leaves are materially affected or materially discolored by bruising. (c) Dirt or foreign material when materially affects 2 or more leaves. (d) Discoloration when brown to black exceeds an aggregate area of 1 square inch.</p>

	<p>(e) Downy Mildew when exceeds an aggregate area of 1 square inch.</p> <p>(f) Insects when 4 or more live or dead or 1 live or dead worm is present, or excreta exceeds an area 1/4 by 1 inch or 4 or more holes are present.</p> <p>(g) Mechanical when cut or torn more than an aggregate of 3 inches.</p> <p>(h) Russet Spotting when exceeds 3 spots on one leaf, or any amount on 2 or more leaves. (i) Seedstems when more than 2 inches in length, measured from the point of attachment to the tip of the seedstem.</p> <p>(j) Tipburn when light buff and exceeds an aggregate area of 1 square inch.</p> <p>(k) Watersoaked exceeds an aggregate area of 3 square inches.</p> <p>(l) Yellowing exceeds an aggregate area of 3 square inches.</p>
<p>H) Serious Damage</p>	<p>(a) Broken midribs when affecting 5 or more leaves.</p> <p>(b) Bruising when 2 or more leaves are seriously affected or seriously discolored by bruising. (c) Dirt or foreign material when seriously affects 4 or more leaves.</p> <p>(d) Discoloration when brown to black exceeds an aggregate area of 2 square inches.</p> <p>(e) Downy mildew when exceeds an aggregate area of 2 square inches.</p> <p>(f) Insects when 8 or more live or</p>

dead or 2 or more worms are present, or area of excreta exceeds an aggregate area of 1/2 inch by 1 inch or 8 or more holes are present.

(g) Mechanical when cut or torn more than an aggregate of 6 inches.

(h) Russet Spotting when affecting 4 or more leaves.

(i) Seedstems when more than 3 inches in length, measured from the point of attachment to the tip of the seedstem.

(j) Tipburn when light buff and exceeds an aggregate area of 2 square inches.

(k) Watersoaked when exceeds an aggregate area of 6 square inches.

(l) Yellowing when exceeds an aggregate area of 6 square inches.