

## ORANGES

- Sample** 20 fruits (50 fruits for color break).
- Color Break** 25% for Parson Brown August 1 through October 31, then 50%; 50% all season for other varieties; none for cannery fruit December 1 through July 31.
- Juice Content:** Natural color 4.5 gal. per box; color-added 5 gal. per box; no fruit December 1 through July 31.
- Acid** Natural color 0.4% minimum; color-added 0.5% minimum; none for cannery fruit December 1 through July 31.

## Brix and Brix/Acid Ratio:

| Minimum Brix %        | Brix/Acid Minimum Ratio |
|-----------------------|-------------------------|
| * (1) 8.0 to (not inc | 8.1 10.50 to 1          |
| 8.1 " "               | " 8.2 10.45 to 1        |
| 8.2 " "               | " 8.3 10.40 to 1        |
| 8.3 " "               | " 8.4 10.35 to 1        |
| 8.4 " "               | " 8.5 10.30 to 1        |
| * (2) 8.5 " "         | " 8.6 10.25 to 1        |
| 8.6 " "               | " 8.7 10.20 to 1        |
| * (3) 8.7 " "         | " 8.8 10.15 to 1        |
| 8.8 " "               | " 8.9 10.10 to 1        |
| 8.9 " "               | " 9.0 10.05 to 1        |
| * (4) 9.0 " "         | " 9.1 10.00 to 1        |
| 9.1 " "               | " 9.2 9.95 to 1         |
| * (5) 9.2 " "         | " 9.3 9.90 to 1         |
| 9.3 " "               | " 9.4 9.85 to 1         |
| 9.4 " "               | " 9.5 9.80 to 1         |
| 9.5 " "               | " 9.6 9.75 to 1         |
| 9.6 " "               | " 9.7 9.70 to 1         |
| 9.7 " "               | " 9.8 9.65 to 1         |
| 9.8 " "               | " 9.9 9.60 to 1         |
| 9.9 " "               | " 10.0 9.55 to 1        |
| 10.0 " "              | " 10.1 9.50 to 1        |
| 10.1 " "              | " 10.2 9.45 to 1        |
| 10.2 " "              | " 10.3 9.40 to 1        |
| 10.3 " "              | " 10.4 9.35 to 1        |
| 10.4 " "              | " 10.5 9.30 to 1        |
| 10.5 " "              | " 10.6 9.25 to 1        |
| 10.6 " "              | " 10.7 9.20 to 1        |
| 10.7 " "              | " 10.8 9.15 to 1        |
| 10.8 " "              | " 10.9 9.10 to 1        |
| 10.9 " "              | " 11.0 9.05 to 1        |
| 11.0 " "              | " 11.1 9.00 to 1        |

- \* (1) Minimum Brix for oranges for canning, Dec. 1 thru July 31.
- \* (2) Minimum Brix for natural color oranges, Nov. 16 thru July 31.
- \* (3) Minimum Brix for color-added oranges, Nov. 16 thru July 31.  
Minimum Brix for natural color oranges, Nov. 1 thru Nov. 15.
- \* (4) Minimum Brix for color-added oranges, Nov. 1 thru Nov. 15.  
Minimum Brix for natural color oranges, Aug. thru Oct. 31.
- \* (5) Minimum Brix for color-added oranges, Aug. 1 thru Oct. 31.

## GRAPEFRUIT

**Sample:** 10 fruits (50 fruits for color break)  
**Color Break:** 25% for fresh fruit; none for cannery fruit December 1 through July 31.  
**Juice Content:** See table on p. 3  
 No minimum.

### Brix and Brix/Acid Ratio:

| Minimum Brix %        | Brix/Acid<br>Minimum Ratio |
|-----------------------|----------------------------|
| * (1) 6.5 ]           |                            |
| * (2) 7.0 ]           |                            |
| * (3) 7.5 ] . . . . . | 7.00 to 1                  |
| * (4) 8.0 ]           |                            |

- \* (1) Minimum Brix for all grapefruit for canning, Jan. 1 thru July 31
- \* (2) Minimum Brix for grapefruit for canning, Dec. 1 thru Dec. 31.  
       Minimum Brix for seedless grapefruit, Jan. 1 thru July 31.
- \* (3) Minimum Brix for seedless grapefruit, Aug. 1 thru Dec. 31  
       Minimum Brix for seeded grapefruit, Jan. 1 thru July 31.
- \* (4) Minimum Brix for seeded grapefruit, Aug. 1 thru Dec. 31.

| Minimum Brix %     | Brix/Acid<br>Minimum Ratio, continue |
|--------------------|--------------------------------------|
| 8.1 to (not incl.) | 9.1 . . . 7.00 to 1                  |
| 9.1 " " "          | 9.2 . . . 6.95 to 1                  |
| 9.2 " " "          | 9.3 . . . 6.90 to 1                  |
| 9.3 " " "          | 9.4 . . . 6.85 to 1                  |
| 9.4 " " "          | 9.5 . . . 6.80 to 1                  |
| 9.5 " " "          | 9.6 . . . 6.75 to 1                  |
| 9.6 " " "          | 9.7 . . . 6.70 to 1                  |
| 9.7 " " "          | 9.8 . . . 6.65 to 1                  |
| 9.8 " " "          | 9.9 . . . 6.60 to 1                  |
| 9.9 " " "          | 10.0 . . . 6.55 to 1                 |
| 10.0 " " "         | 10.1 . . . 6.50 to 1 * (6)           |
| 10.1 " " "         | 10.2 . . . 6.475 to 1                |
| 10.2 " " "         | 10.3 . . . 6.45 to 1                 |
| 10.3 " " "         | 10.4 . . . 6.425 to 1                |
| 10.4 " " "         | 10.5 . . . 6.40 to 1                 |
| 10.5 " " "         | 10.6 . . . 6.375 to 1                |
| 10.6 " " "         | 10.7 . . . 6.35 to 1                 |
| 10.7 " " "         | 10.8 . . . 6.325 to 1                |
| 10.8 " " "         | 10.9 . . . 6.30 to 1                 |
| 10.9 " " "         | 11.0 . . . 6.275 to 1                |

| Minimum Brix % |      | % Acid<br>Minimum Ratio |
|----------------|------|-------------------------|
| 11.0 "         | 11.1 | 6.25 to 1               |
| 11.1 "         | 11.2 | 6.225 to 1              |
| 11.2 "         | 11.3 | 6.20 to 1               |
| 11.3 "         | 11.4 | 6.175 to 1              |
| 11.4 "         | 11.5 | 6.15 to 1               |
| 11.5 "         | 11.6 | 6.125 to 1              |
| 11.6 "         | 11.7 | 6.10 to 1               |
| 11.7 "         | 11.8 | 6.075 to 1              |
| 11.8 "         | 11.9 | 6.05 to 1               |
| 11.9 "         | 12.0 | 6.025 to 1              |
| 12.0 and s     |      | 6.00 to 1*(5)           |

\*(5) Minimum 6 to 1 ratio for all grapefruit for canning, Apr 15 thru July 31 with 6 minimum Brix.

Minimum 6 to 1 ratio for grapefruit shipped fresh, April 15 thru July 31.

(6) Minimum 6.5 to 1 ratio for all grapefruit for canning with 6.5% minimum Brix.

At

**Content: (August 1 thru November 15)**

|                 |         |
|-----------------|---------|
| Size 18 . . . . | 350 cc. |
| Size 23 . . . . | 320 cc. |
| Size 27 . . . . | 280 cc. |
| Size 32 . . . . | 255 cc. |
| Size 35 . . . . | 230 cc. |
| Size 40 . . . . | 210 cc. |
| Size 48 . . . . | 185 cc. |
| Size 56 . . . . | 175 cc. |
| Size 64 . . . . | 165 cc. |
| Size 75 . . . . | 145 cc. |

**(November 16 thru March 1)**

|         |        |
|---------|--------|
| Size 18 | 335 cc |
| Size 23 | 305 cc |
| Size 27 | 270 cc |
| Size 32 | 240 cc |
| Size 35 | 220 cc |

|                 |         |
|-----------------|---------|
| Size 40 . . . . | 200 cc. |
| Size 48 . . . . | 180 cc. |
| Size 56 . . . . | 170 cc. |
| Size 64 . . . . | 160 cc. |
| Size 75 . . . . | 135 cc. |

**(March 2 thru July 31)**

|         |        |
|---------|--------|
| Size 18 | 320 cc |
| Size 23 | 290 cc |
| Size 27 | 255 cc |
| Size 32 | 230 cc |
| Size 35 | 210 cc |

|         |        |
|---------|--------|
| Size 40 | 190 cc |
| Size 48 | 170 cc |
| Size 56 | 160 cc |
| Size 64 | 150 cc |
| Size 75 | 130 cc |

## TANGERINES

|               |  |
|---------------|--|
| Sample        | 20 fruits (50 fruits for color break)                                    |
| Color Break   | 50% for fresh fruit; none for cannery fruit November 15 through July 31. |
| Juice Content | None   |
| Acid          | No minimum   |

## Brix and Brix/Acid Ratio

| Minimum<br>Brix%      | Brix/Acid<br>Minimum Ratio |
|-----------------------|----------------------------|
| (Aug. 1 thru Nov. 14) |                            |
| *9.0 to (not incl.)   | 9.1 ... 9.0 to 1           |
| 9.1 " " "             | 9.2 ... 8.9 to 1           |
| 9.2 " " "             | 9.3 ... 8.8 to 1           |
| 9.3 " " "             | 9.4 ... 8.7 to 1           |
| 9.4 " " "             | 9.5 ... 8.6 to 1           |
| 9.5 " " "             | 9.6 ... 8.5 to 1           |
| 9.6 " " "             | 9.7 ... 8.4 to 1           |
| 9.7 " " "             | 9.8 ... 8.3 to 1           |
| 9.8 " " "             | 9.9 ... 8.2 to 1           |
| 9.9 " " "             | 10.0 ... 8.1 to 1          |
| 10.0 " " "            | 10.1 ... 8.0 to 1          |
| 10.1 " " "            | 10.2 ... 7.9 to 1          |
| 10.2 " " "            | 10.3 ... 7.8 to 1          |
| 10.3 " " "            | 10.4 ... 7.7 to 1          |
| 10.4 " " "            | 10.5 ... 7.6 to 1          |
| 10.5 and above ...    | ..... 7.5 to 1             |

\*Min. Brix for Tangerines thru Nov. 14

## (Nov. 15 to July 31 Only)

|                      |                     |
|----------------------|---------------------|
| *8.75 to (not incl.) | 9.10 ... 8.75 to 1  |
| 9.10 " " "           | 9.20 ... 8.65 to 1  |
| 9.20 " " "           | 9.30 ... 8.55 to 1  |
| 9.30 " " "           | 9.40 ... 8.45 to 1  |
| 9.40 " " "           | 9.50 ... 8.35 to 1  |
| 9.50 " " "           | 9.60 ... 8.25 to 1  |
| 9.60 " " "           | 9.70 ... 8.15 to 1  |
| 9.70 " " "           | 9.80 ... 8.05 to 1  |
| 9.80 " " "           | 9.90 ... 7.95 to 1  |
| 9.90 " " "           | 10.00 ... 7.85 to 1 |
| 10.00 " " "          | 10.10 ... 7.75 to 1 |
| 10.10 " " "          | 10.20 ... 7.65 to 1 |
| 10.20 " " "          | 10.30 ... 7.55 to 1 |
| 10.30 " " "          | 10.40 ... 7.45 to 1 |
| 10.40 " " "          | 10.50 ... 7.35 to 1 |
| 10.50 and above      | ..... 7.25 to 1     |

\*Min. Brix for Tangerines  
Nov. 15 thru July 31

**'MURCOTTS'\***

Sample: 20 fruits (5 fruits for color break).  
 Color Break: None  
 Juice Content: None  
 Acid: 1.0% maximum unless ratio exceeds 12 to 1  
 Brix: None  
 Brix/Acid Ratio: (See Acid).

\*For cannery fruit, apply standards for oranges.

**TANGELOS AND K-EARLY**

Sample: 20 (50 fruit for color break)  
 Color Break: 50% for fresh fruit; none for cannery fruit December 1 through July 31.  
 Juice Content: None  
 Acid: 0.4% minimum

Brix and Brix/Acid Ratio:

**Color-Added and Natural Color**

|       | Minimum<br>Brix % |        | Brix/Acid<br>Minimum Ratio |
|-------|-------------------|--------|----------------------------|
| * (1) | 8.0 to not incl.  | 8.1 .. | 10.50 to 1                 |
|       | 8.1 "             | 8.2 .. | 10.45 to 1                 |
|       | 8.2 "             | 8.3 .. | 10.40 to 1                 |
|       | 8.3 "             | 8.4 .. | 10.35 to 1                 |
|       | 8.4 "             | 8.5 .. | 10.30 to 1                 |
| * (2) | 8.5 "             | 8.6 .. | 10.25 to 1                 |
|       | 8.6 "             | 8.7 .. | 10.20 to 1                 |
|       | 8.7 "             | 8.8 .. | 10.15 to 1                 |
|       | 8.8 "             | 8.9 .. | 10.10 to 1                 |
|       | 8.9 "             | 9.0 .. | 10.05 to 1                 |
| * (3) | 9.0 "             | 9.1 .. | 10.00 to 1                 |
|       | 9.1 "             | 9.2 .. | 9.95 to 1                  |
|       | 9.2 "             | 9.3 .. | 9.90 to 1                  |
|       | 9.3 "             | 9.4 .. | 9.85 to 1                  |
|       | 9.4 "             | 9.5 .. | 9.80 to 1                  |

\* (1) Minimum Brix for canning Nov. 16 thru Nov. 30.

\* (2) Minimum Brix for canning Nov. 1 thru Nov. 15; Minimum Brix for fresh Nov. 16 thru Nov. 30.

\* (3) Minimum Brix for canning Aug. 1 thru Oct. 31; Minimum Brix for fresh Nov. 1 thru Nov. 16.

| Minimum<br>Brix%       |   |   |   | Brix/Acid<br>Minimum Ratio |
|------------------------|---|---|---|----------------------------|
| * (4) 9.5              | " | " | " | 9.6 ... 9.75 to 1          |
| 9.6                    | " | " | " | 9.7 ... 9.70 to 1          |
| 9.7                    | " | " | " | 9.8 ... 9.65 to 1          |
| 9.8                    | " | " | " | 9.9 ... 9.60 to 1          |
| 9.9                    | " | " | " | 10.0 ... 9.55 to 1         |
| 10.0 to (not. incl.)   |   |   |   | 10.1 ... 9.50 to 1         |
| 10.1                   | " | " | " | 10.2 ... 9.45 to 1         |
| 10.2                   | " | " | " | 10.3 ... 9.40 to 1         |
| 10.3                   | " | " | " | 10.4 ... 9.35 to 1         |
| 10.4                   | " | " | " | 10.5 ... 9.30 to 1         |
| 10.5                   | " | " | " | 10.6 ... 9.25 to 1         |
| 10.6                   | " | " | " | 10.7 ... 9.20 to 1         |
| 10.7                   | " | " | " | 10.8 ... 9.15 to 1         |
| 10.8                   | " | " | " | 10.9 ... 9.10 to 1         |
| 10.9                   | " | " | " | 11.0 ... 9.05 to 1         |
| 11.0                   | " | " | " | 11.1 ... 9.00 to 1         |
| 11.1                   | " | " | " | 11.2 ... 8.95 to 1         |
| 11.2                   | " | " | " | 11.3 ... 8.90 to 1         |
| 11.3                   | " | " | " | 11.4 ... 8.85 to 1         |
| 11.4                   | " | " | " | 11.5 ... 8.80 to 1         |
| 11.5                   | " | " | " | 11.6 ... 8.75 to 1         |
| 11.6                   | " | " | " | 11.7 ... 8.70 to 1         |
| 11.7                   | " | " | " | 11.8 ... 8.65 to 1         |
| 11.8                   | " | " | " | 11.9 ... 8.60 to 1         |
| 11.9 and above . . . . |   |   |   | 8.55 to 1* (5)             |
| (See below) . . . . .  |   |   |   | 8.00 to 1* (6)             |

\* (4) Minimum Brix Aug. 1 thru Oct. 31.

\* (5) Flat 8.55 to 1 ratio for fresh, Dec. 1 thru Jan. 31, with no minimum Brix.

\* (6) Flat 8 to 1 ratio for fresh, Feb. 1 thru July 31, with no minimum Brix;  
Flat 8 to 1 ratio for canning, Dec. 1 thru July 31, with no minimum Brix.

### TEMPLES

**Sample:** 20 fruits (50 fruits for color break)  
**Color Break:** 50% for fresh fruit; none for cannery fruit December 1 through July 31.  
**Juice Content:** None  
**Acid:** No minimum

#### Brix and Brix Acid Ratio

| Minimum Brix %     | Brix/Acid<br>Minimum Ratio |
|--------------------|----------------------------|
| 9.0 to (not incl.) | 9.1 ..... 9.0 to 1* (1)    |
| 9.1 " " "          | 9.2 ..... 8.9 to 1         |
| 9.2 " " "          | 9.3 ..... 8.8 to 1         |
| 9.3 " " "          | 9.4 ..... 8.7 to 1         |
| 9.4 " " "          | 9.5 ..... 8.6 to 1         |
| 9.5 " " "          | 9.6 ..... 8.5 to 1* (2)    |
| 9.6 " " "          | 9.7 ..... 8.4 to 1         |
| 9.7 " " "          | 9.8 ..... 8.3 to 1         |
| 9.8 " " "          | 9.9 ..... 8.2 to 1         |
| 9.9 " " "          | 10.0 ..... 8.1 to 1        |
| 10.0 " " "         | 10.1 ..... 8.0 to 1        |
| 10.1 " " "         | 10.2 ..... 7.9 to 1        |
| 10.2 " " "         | 10.3 ..... 7.8 to 1        |
| 10.3 " " "         | 10.4 ..... 7.7 to 1        |
| 10.4 " " "         | 10.5 ..... 7.6 to 1        |
| 10.5 and above ..  | ..... 7.5 to 1* (3)        |

\* (1) Minimum ratio for color added.

\* (2) Minimum ratio for fresh shipment.

\* (3) Minimum ratio for processing.