

# Vegetable Variety Trials 2010

EM 8777-10 • Revised April 2011



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Revised April 2011.

## Production Notes

Varieties of several kinds of vegetables were grown and evaluated in conjunction with breeding programs at the Oregon State University vegetable farm in Corvallis, Oregon.\* Unless otherwise noted, plots were 10 to 20 feet long, with 30 inches between rows, and received about 450 lb/acre (about 10 lb/1,000 ft<sup>2</sup>) of 12-29-10-10 fertilizer banded prior to planting. Water was applied every 7 to 14 days as needed. The soil is a well-drained Chehalis silt loam.

Home gardens produce the best yields when planted with vegetable varieties adapted to local growing conditions. Market growers and home gardeners may be able to use the information from these trials to help them choose adapted varieties that have qualities that are important to them (appearance, earliness, flavor, yield, disease resistance, etc.).

For information on fertilization, cultural practices, pest and disease control, and harvest and storage of specific crops, see <http://oregonvegetables.com>.

More information on specific crops, garden planning, site preparation, and related topics is available in various Oregon State University Extension publications. Visit <http://extension.oregonstate.edu/catalog/>, or contact:

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\* *It is not always possible to obtain notes on all varieties provided by seed companies or other sources.*

## Sources of Varieties

Baker Creek Heirloom Seed Co.; 2278 Baker Creek Rd., Mansfield, MO 65704; 417-924-8917; <http://rareseeds.com>  
\*Bejo Seeds; 1972 Silver Spur Pl., Oceanside, CA 93445; 805-473-2199; [www.bejoseeds.com](http://www.bejoseeds.com)  
Botanical Interests; 660 Compton St., Broomfield, CO 80020; 303-464-6468; [www.botanicalinterests.com](http://www.botanicalinterests.com)  
\*D. Palmer Seed Co. Inc.; 8269 E. Hwy. 95, Yuma, AZ 85365; 928-341-8494; [www.dpalmerseed.com](http://www.dpalmerseed.com)  
De Bolster Seeds; Oude Onerweg 13, 8161 PL EPE, Netherlands; +31 (0) 578-621433; [www.bogachfarm.ie](http://www.bogachfarm.ie)  
FedCo Seeds; P.O. Box 520, Waterville, ME 04903; 207-873-7333; [www.fedcoseeds.com](http://www.fedcoseeds.com)  
\*Harris Moran Seed Company; P.O. Box 4938, Modesto, CA 95352-4938; 209-579-7333; [www.harrismoran.com](http://www.harrismoran.com)  
Henry Field's Seed & Nursery; P.O. Box 397, Aurora, IN 47001-0397; 513-354-1494; [www.henryfields.com](http://www.henryfields.com)  
High Mowing Organic Seeds; 76 Quarry Rd., Wolcott, VT 05680; 802-472-6174; [www.highmowingseeds.com](http://www.highmowingseeds.com)  
\*Hollar Seeds; P.O. Box 106, Rocky Ford, CO 81067; 719-254-7411; [www.hollarseeds.com](http://www.hollarseeds.com)  
Johnny's Selected Seeds; 955 Benton Ave., Winslow, ME 04901-2601; 1-877-564-6697; [www.johnnyseeds.com](http://www.johnnyseeds.com)  
Nichols Garden Nursery; 1190 Old Salem Rd. NE, Albany, OR 97321; 800-422-3985; [www.nicholsgardennursery.com](http://www.nicholsgardennursery.com)  
\*Nunhems Netherlands B.V.; P.O. Box 4005, 6080 AA Haelen, The Netherlands; [www.nunhems.com](http://www.nunhems.com)

Oregon State University, J.R. Myers, Dept. of Horticulture; ALS 4017, Corvallis, OR 97331-7304; 541-737-3083; [myersja@hort.oregonstate.edu](mailto:myersja@hort.oregonstate.edu)  
\*Osborne International Seed Co.; 2428 Old Hwy. 99 S., Mount Vernon, WA 98273; 360-424-7333; [www.osborneseed.com](http://www.osborneseed.com)  
\*Rogers Seed Company, a division of Syngenta; P.O. Box 4188, Boise, ID 83711-4188; 208-322-7272; [www.rogersadvantage.com](http://www.rogersadvantage.com)  
\*Rupp Seeds Inc.; 17919 County Rd. B, Wauseon, OH 43567-9458; 800-700-1199; [www.ruppseeds.com](http://www.ruppseeds.com)  
Rutgers New Jersey Agricultural Experiment Station; <http://njaes.rutgers.edu>  
\*Sakata Seed America Inc.; P.O. Box 880, Morgan Hill, CA 95038-0880; 408-778-7758; [www.sakata.com](http://www.sakata.com)  
Seeds of Change; P.O. Box 15700, Santa Fe, NM 87592-1500; 888-762-7333; [www.seedsofchange.com](http://www.seedsofchange.com)  
\*Seminis Vegetable Seeds; 800 N. Lindbergh Blvd., St. Louis, MO 63167; 314-694-1000; <http://us.seminis.com>  
\*Takii @American Takii; 301 Natividad Rd., Salinas, CA 93906; 831-443-4901; [www.takii.com](http://www.takii.com)  
Territorial Seed Company; P.O. Box 158, Cottage Grove, OR 97424-0061; 800-626-0866; [www.territorialseed.com](http://www.territorialseed.com)  
Tomato Growers Supply Co.; P.O. Box 60015, Fort Myers, FL 33906; 888-478-7333; [www.tomatogrowers.com](http://www.tomatogrowers.com)  
Turtle Tree Seed; Camphill Village, Copake, NY 12516; 518-329-3037; [www.turtletreeseeds.com](http://www.turtletreeseeds.com)

\* Wholesale only

# Artichoke<sup>1</sup>

| Variety       | Source      | Plant Vigor <sup>2</sup> | Uniformity <sup>3</sup> | Productivity <sup>4</sup> | Head Color             | Spines         | Head Length (cm) <sup>5</sup> | Head Width (cm) <sup>5</sup> | Overall Score <sup>6</sup> | Cultivar Type <sup>7</sup> | Notes                  |
|---------------|-------------|--------------------------|-------------------------|---------------------------|------------------------|----------------|-------------------------------|------------------------------|----------------------------|----------------------------|------------------------|
| Green Globe   | Territorial | 5                        | 8                       | 7                         | green with purple tips | present/absent | 10.5                          | 13.0                         | 6                          | OP                         |                        |
| Imperial Star | Johnny's    | 7                        | 7                       | 9                         | green with purple tips | absent         | 10.0                          | 12.5                         | 8                          | OP                         |                        |
| Tempo         | Johnny's    | 8                        | 8                       | 9                         | green with purple tips | mostly absent  | 9.5                           | 11.5                         | 9                          | F1                         |                        |
| Violetto      | Territorial | 3–9                      | 1                       | 3                         | variable green-purple  | present        | 10.4                          | 14.7                         | 4                          | OP                         | Outward-curved bracts. |

<sup>1</sup>Transplanted May 14.

<sup>2</sup>Scores based on a 1–9 scale, 9 = high.

<sup>3</sup>Scores based on a 1–9 scale, 9 = all plants uniformly developed.

<sup>4</sup>Estimated yield at time of evaluation. Scores based on a 1–9 scale, 9 = high.

<sup>5</sup>Head length and width taken from the king choke (central flower bud of the inflorescence).

<sup>6</sup>Scores based on a 1–9 scale, 9 = best.

<sup>7</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Beet<sup>1</sup>

| Variety                  | Source      | Color             | Uniformity <sup>2</sup> | Root Length (cm) | Root Width (cm) | Shape <sup>2</sup>   | Top Vigor <sup>3</sup> | Top Appearance <sup>2</sup> | Neck <sup>4</sup> | Overall Score <sup>2</sup> | Cultivar Type <sup>5</sup> | Notes                                     |
|--------------------------|-------------|-------------------|-------------------------|------------------|-----------------|----------------------|------------------------|-----------------------------|-------------------|----------------------------|----------------------------|---|
| Boro                     | Nichols     | dark red-purple   | 4                       | 7                | 9               | round                | 8                      | 6                           | 4                 | 5                          | F1                         |   |
| Chioggia                 | Nichols     | red-white to pink | 7                       | 32               | 9               | oblate               | 8                      | 4                           | 6                 | 8                          | OP                         | Excellent flavor and appearance.          |
| Forono                   | Johnny's    | red-fuschia       | 4                       | 30               | 6               | cylindrical          | 6                      | 5                           | 6                 | 7                          | OP                         | Crunchy, bland taste.                     |
| Golden                   | Nichols     | yellow-orange     | 8                       | 8                | 9               | round to cylindrical | 2                      | 4                           | 4                 | 4                          | OP                         | Nice color, off-flavor.                   |
| Moneta                   | Nichols     | fuschia           | 4                       | 9                | 8               | round                | 4                      | 4                           | 4                 | 3                          | F1                         | Off-flavor.                               |
| Red Ace                  | High Mowing | red-fuschia       | 8                       | 23               | 10              | cordate              | 8.5                    | 6                           | 3                 | 8                          | F1                         |   |
| Scarlet Supreme Tall Top | Nichols     | fuschia           | 3                       | 16               | 8               | round                | 4                      | 4                           | 3                 | 7                          | F1                         | Beautiful color.                          |
| Touchstone Gold          | Johnny's    | yellow-orange     | 8                       | 13               | 10              | round/oblate         | 4                      | 4                           | 4                 | 2                          | F1                         | Black rot or fungus on root; poor flavor. |

<sup>1</sup>Direct seeded June 16.

<sup>2</sup>**Oblate:** a round shape that is flattened at the poles; **cordate:** shaped like a heart.

<sup>3</sup>Scores based on a 1–9 scale, 9 = most uniform, most vigorous, or best.

<sup>4</sup>Scores based on a 1–9 scale, 9 = narrow, thin neck.

<sup>5</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.



# Broccoli<sup>1</sup>

| Variety                    | Source          | Maturity | Plant Height (cm) <sup>2</sup> | Head Diam. (cm) | Bead Size <sup>3</sup> | Head Color <sup>4</sup> | Stem Color <sup>4</sup> | Head Exsertion <sup>4</sup> | Branching <sup>4</sup> | Overall Score <sup>4</sup> | Cultivar Type <sup>5</sup> | Notes                                      |
|----------------------------|-----------------|----------|--------------------------------|-----------------|------------------------|-------------------------|-------------------------|-----------------------------|------------------------|----------------------------|----------------------------|--|
| Arcadia                    | Johnny's        | mid      | 42/56                          | 12.5            | M                      | 5                       | 5                       | 6                           | 3                      | 7                          | F1                         |  |
| Avenger                    | Sakata          | late     | 33/52                          | 15.0            | F                      | 3                       | 3                       | 5                           | 1                      | 6                          | F1                         |  |
| Coronado Crown             | Seminis         | mid      | 36/60                          | 11.0            | F-C                    | 3                       | 5                       | 5                           | 1                      | 4                          | F1                         | Uneven beads and heads due to heat damage. |
| Diplomat                   | Osbourne        | mid      | 41/72                          | 11.5            | M                      | 5                       | 7                       | 5                           | 3                      | 4                          | F1                         | Uneven development.                        |
| Early Green                | Seeds of Change | early    | 40/52                          | 10.0            | C                      | 5                       | 7                       | 5                           | 5                      | 1                          | F1                         | Variable maturity; flat heads.             |
| Emerald Crown              | Sakata          | mid      | 30/56                          | 13.0            | F-M                    | 4                       | 5                       | 3                           | 1                      | 3                          | F1                         |  |
| Emerald Pride              | Sakata          | mid      | 34/48                          | 11.0            | F-M                    | 4                       | 7                       | 4                           | 3                      | 5                          | F1                         |  |
| Everest                    | Osbourne        | early    | 39/52                          | 11.5            | M                      | 5                       | 5                       | 4                           | 3                      | 3                          | F1                         |  |
| Hallmark                   | Bejo            | late     | 39/72                          | 9.5             | VF                     | 5                       | 3                       | 3                           | 1                      | 7                          | F1                         |  |
| Imperial                   | Sakata          | mid      | 25/52                          | 11.5            | F                      | 5                       | 3                       | 3                           | 1                      | 3                          | F1                         |  |
| Marathon                   | Sakata          | mid      | 29/53                          | 11.0            | F-M                    | 3                       | 3                       | 3                           | 3                      | 4                          | F1                         |  |
| Maximo                     | Sakata          | late     | 44/51                          | 13.5            | F                      | 5                       | 5                       | 6                           | 5                      | 7                          | F1                         |  |
| Nutribud                   | Seeds of Change | early    | 34/57                          | 10.0            | M-C                    | 5                       | 7                       | 5                           | 5                      | 1                          | OP                         | Variable heading.                          |
| OSU breeding composite '09 | OSU             | late     | 32/58                          | 13.5            | C                      | 5                       | 5                       | 4                           | 3                      | 4                          | OP                         |  |
| Packman                    | Nichols         | early    | 33/46                          | 13.5            | C                      | 5                       | 7                       | 5                           | 3                      | 3                          | F1                         |  |
| Patron                     | Sakata          | mid      | 30/28                          | 8.5             | F-C                    | 5                       | 3                       | 3                           | 1                      | 1                          | F1                         | Small heads; uneven bead development.      |
| Premium Crop               | Takii           | mid      | 30/63                          | 14.0            | C                      | 5                       | 5                       | 3                           | 1                      | 3                          | F1                         |  |
| Spero 2009                 | OSU             | late     | 39/43                          | 15.5            | F                      | 7                       | 5                       | 7                           | 1                      | 7                          | OP                         |  |
| XBC5526                    | Sakata          | mid      | 22/42                          | 11.5            | M-C                    | 5                       | 3                       | 3                           | 1                      | 1                          | F1                         |  |

<sup>1</sup>Planted July 13 in 30-inch rows, thinned to 12 inches apart.

<sup>2</sup>First value is height of the head; second value is height of the tallest leaves.

<sup>3</sup>Beads are the individual, unopened flower buds that make up a broccoli head. C = coarse, M = medium, F = fine, VF = very fine.

<sup>4</sup>Scores based on a 1–9 scale, 9 = dark green, blue-green, very exserted, many developed side branches, or best overall variety. Head exsertion refers to how far the heads are held above the leaves (important for mechanical harvest).

<sup>5</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Brussels Sprout<sup>1</sup>

| Variety      | Source      | Maturity  | Plant Height (cm) | Bud Uniformity <sup>2</sup> | Color       | Overall Score <sup>2</sup> | Cultivar Type <sup>3</sup> | Notes                          |
|--------------|-------------|-----------|-------------------|-----------------------------|-------------|----------------------------|----------------------------|--------------------------------|
| Churchill    | Johnny's    | mid-late  | 87                | 7                           | blue-green  | 7                          | F1                         | More aphid damage than others. |
| Dominator    | Bejo        | mid-late  | 66                | 5                           | blue-green  | 5                          | F1                         |                                |
| Franklin     | Territorial | mid-late  | 77                | 7                           | light green | 8                          | F1                         |                                |
| Igor         | High Mowing | mid-late  | 87                | 3                           | blue-green  | 4                          | F1                         |                                |
| Revenge      | Bejo        | early-mid | 65                | 6                           | blue-green  | 7                          | F1                         |                                |
| Royal Marvel | Sakata      | mid       | 86                | 7                           | blue-green  | 8                          | F1                         |                                |
| Rubine       | Territorial | late      | 102               | 3                           | purple      | 5                          | OP                         |                                |

<sup>1</sup>Planted June 30.

<sup>2</sup>Scores based on a 1–9 scale, 9 = best or most uniform.

<sup>3</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Cabbage<sup>1</sup>

| Variety                | Source      | Type <sup>2</sup>     | Maturity | Head Height (cm) | Head Width (cm) | Core Length (cm) | Internal Color | External Color       | Head Density <sup>3</sup> | Uniformity <sup>3</sup> | Overall Score <sup>3</sup> | Cultivar Type <sup>4</sup> | Notes                            |
|------------------------|-------------|-----------------------|----------|------------------|-----------------|------------------|----------------|----------------------|---------------------------|-------------------------|----------------------------|----------------------------|----------------------------------|
| Caraflex               | Johnny's    | Wakefield             | late     | 25.0             | 17.0            | 10.5             | cream          | emerald green        | 9                         | 7                       | 8                          | F1                         | Excellent flavor.                |
| Early Jersey Wakefield | Nichols     | Wakefield             | late     | 23.0             | 15.0            | 16.0             | cream          | yellow-green         | 3                         | 6                       | 5                          | OP                         | Nice flavor.                     |
| Famosa                 | High Mowing | savoy                 | late     | 15.0             | 16.5            | 6.0              | cream          | bright emerald green | 7                         | 9                       | 8                          | F1                         | Very mild flavor for savoy type. |
| Fast Vantage           | Sakata      | fresh market          | mid      | 17.0             | 17.5            | 8.5              | cream          | yellow-green         | 8                         | 9                       | 8                          | F1                         |                                  |
| Kaitlin                | Johnny's    | storage or sauerkraut | late     | 17.0             | 16.0            | 9.0              | cream          | blue-green           | 5                         | 5                       | 6                          | F1                         | Sharp flavor.                    |
| Quisto                 | Rogers      | fresh market          | late     | 15.0             | 12.5            | 9.5              | cream          | yellow-green         | 3                         | 5                       | 5                          | F1                         |                                  |
| Suprise                | Bejo        | fresh market          | early    | 14.0             | 15.0            | 6.5              | cream          | yellow-green         | 9                         | 8                       | 8                          | F1                         | Good flavor.                     |
| Tobia                  | Seminis     | fresh market          | late     | 17.0             | 18.5            | 7.0              | pale green     | blue-green           | 6                         | 7                       | 7                          | F1                         |                                  |
| Ultima Vantage         | Rupp        | fresh market          | late     | 15.0             | 17.5            | 8.5              | cream          | blue-green           | 5                         | 7                       | 6                          | F1                         |                                  |

<sup>1</sup>Direct seeded July 13.

<sup>2</sup>**Wakefield**: conical in shape; **savoy**: round, compact head with crinkled and curled leaves; **fresh market**: most common type sold for fresh consumption.

<sup>3</sup>Scores based on a 1–9 scale, 9 = best, most dense, or most uniform.

<sup>4</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Carrot<sup>1</sup>

| Variety            | Source          | Type <sup>2</sup> | Color                                   | Length (cm) | Width (cm) | % Bolting | Aster Yellows <sup>3</sup> | Color Uniformity <sup>4</sup> | Top Vigor <sup>4</sup> | Cracking/Defects <sup>4</sup> | Crown          | Green Shoulder <sup>4</sup> | Flavor <sup>4</sup> | Overall Score <sup>4</sup> | Cultivar Type <sup>5</sup> | Notes                                      |
|--------------------|-----------------|-------------------|---|-------------|------------|-----------|----------------------------|-------------------------------|------------------------|-------------------------------|----------------|-----------------------------|---------------------|----------------------------|----------------------------|--|
| Abledo             | Rupp            | Chantenay         | orange                                  | 10.3        | 2.8        | 0         | 7                          | 9                             | 8                      | 7                             | convex         | 9                           | 4                   | 6                          | F1                         |  |
| Abundance          | Rupp            | Chantenay         | orange                                  | 11.5        | 3.2        | 0         | 8                          | 9                             | 7                      | 5                             | flat           | 7                           | 7                   | 7                          | F1                         |  |
| Deep Purple        | Johnny's        | Danvers           | purple with yellow and white core       | 21.8        | 3.3        | 30        | 8                          | na                            | 9                      | 4                             | convex         | 9                           | 3                   | 5                          | F1                         |  |
| Envy               | Nichols         | Danvers           | orange                                  | 18.0        | 3.0        | 30        | 9                          | 6                             | 7                      | 7                             | convex         | 8                           | 5                   | 6                          | F1                         | Early ripening, overmature when evaluated. |
| Solar Yellow       | Rupp            | Danvers           | red throughout, orange ring around core | 12.5        | 2.6        | 0         | 6                          | na                            | 7                      | 7                             | convex         | 9                           | 6                   | 7                          | OP                         |  |
| White Satin        | Fedco           | Danvers           | white                                   | 21.7        | 4.4        | 0         | 8                          | 7                             | 7                      | 7                             | convex         | 1                           | 5                   | 7                          | F1                         |  |
| Oxheart            | Seeds of Change | French forcing    | medium light orange                     | 8.3         | 5.0        | 0         | 9                          | 5                             | 8                      | 9                             | convex         | 9                           | 6                   | 8                          | OP                         |  |
| Red Core Chantenay | Nichols         | French forcing    | orange with darker core                 | 9.5         | 4.5        | 0         | 7                          | 7                             | 7                      | 4                             | convex to flat | 8                           | 7                   | 7                          | OP                         | Very crisp.                                |
| Yellow Sun         | Johnny's        | French forcing    | gold                                    | 11.2        | 3.6        | 10        | 4                          | 4                             | 5                      | 9                             | flat           | 5                           | 3                   | 4                          | F1                         | Orange outer, yellow ring around core.     |
| Interceptor        | High Mowing     | Imperator         | orange                                  | 23.5        | 3.1        | 0         | 9                          | 7                             | 6                      | 8                             | flat           | 9                           | 8                   | 8                          | F1                         |  |
| Maverick           | Rupp            | Imperator         | orange                                  | 24.5        | 3.5        | 0         | 9                          | 7                             | 8                      | 9                             | convex         | 9                           | 6                   | 7                          | F1                         | Early ripening, overmature when evaluated. |
| Dragon             | High Mowing     | Danvers           | red with orange core                    | 11.9        | 2.3        | 1         | 1                          | na                            | 2                      | 8                             | flat           | 5                           | 3                   | 3                          | OP                         | Highly variable green shoulders.           |

<sup>1</sup>Direct seeded June 16.

<sup>2</sup>**Chantenay** types are broad, blocky, and relatively short, making them suitable for planting in heavy or shallow soils. **Danvers** are medium length and tapered. **French forcing** are small, short carrots of high quality. **Imperator** types have nearly cylindrical, long, durable roots and are especially suited to shipping and processing but need deep, sandy soils. **Nantes** are medium length and cylindrical and are generally considered to have the best flavor for fresh eating.

<sup>3</sup>Aster yellows disease symptoms: New leaves in the plant's heart are yellow, reduced in size, deformed, and dense in growth. Older leaves may have a purple or reddish color. Carrot roots frequently are deformed and develop dense tufts of hairlike rootlets. Scores based on a 1–9 scale, 9 = little disease.

<sup>4</sup>Scores based on a 1–9 scale, 9 = best, highest uniformity, least green color on shoulder, or best flavor.

<sup>5</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.



# Carrot<sup>1</sup>

| Variety       | Source       | Type <sup>2</sup> | Color                   | Length (cm) | Width (cm) | % Bolting | Aster Yellows <sup>3</sup> | Color Uniformity <sup>4</sup> | Top Vigor <sup>4</sup> | Cracking/ Defects <sup>4</sup> | Crown           | Green Shoulder <sup>4</sup> | Flavor <sup>4</sup> | Overall Score <sup>4</sup> | Cultivar Type <sup>5</sup> | Notes  |
|---------------|--------------|-------------------|-------------------------|-------------|------------|-----------|----------------------------|-------------------------------|------------------------|--------------------------------|-----------------|-----------------------------|---------------------|----------------------------|----------------------------|--|
| Baltimore     | Territorial  | Nantes            | orange                  | 15.3        | 2.5        | 0         | 8                          | 8                             | 8                      | 8                              | convex          | 5                           | 4                   | 6                          | F1                         |  |
| Cosmic Purple | Rupp         | Nantes            | red skin orange core    | 12.2        | 3.7        | 0         | 6                          | 9                             | 6                      | 8                              | flat            | 9                           | 2                   | 4                          | OP                         | Skin color does not penetrate; root hairs present. |
| Laguna        | Territorial  | Nantes            | orange                  | 14          | 3          | 0         | 6                          | 6                             | 3                      | 5                              | flat            | 6                           | 6                   | 5                          | F1                         |  |
| Magnum        | Harris Moran | Nantes            | orange                  | 12.3        | 2.5        | 0         | 9                          | 8                             | 6                      | 8                              | slightly convex | 6                           | 5                   | 7                          | F1                         |  |
| Navarino      | Johnny's     | Nantes            | orange                  | 15.1        | 3          | 0         | 8                          | 9                             | 6                      | 8                              | convex          | 3                           | 7                   | 7                          | F1                         |  |
| Parano        | Territorial  | Nantes            | orange                  | 14.7        | 3.1        | 0         | 8                          | 7                             | 3                      | 3                              | convex to flat  | 2                           | 6                   | 5                          | F1                         | Cracking.  |
| Purple Haze   | Territorial  | Novelty           | purple with orange core | 15.5        | 3.2        | 1         | 9                          | na                            | 4                      | 7                              | slightly convex | 9                           | 6                   | 7                          | F1                         | Cracking.  |
| Precision     | Bejo         | French forcing    | orange                  | 5.1         | 4.1        | 1         | 9                          | 7                             | 8                      | 8                              | flat            | 8                           | 7                   | 7                          | F1                         |  |

<sup>1</sup>Direct seeded June 16.

<sup>2</sup>**Chantenay** types are broad, blocky, and relatively short, making them suitable for planting in heavy or shallow soils. **Danvers** are medium length and tapered. **French forcing** are small, short carrots of high quality. **Imperator** types have nearly cylindrical, long, durable roots and are especially suited to shipping and processing but need deep, sandy soils. **Nantes** are medium length and cylindrical and are generally considered to have the best flavor for fresh eating.

<sup>3</sup>Aster yellows disease symptoms: New leaves in the plant's heart are yellow, reduced in size, deformed, and dense in growth. Older leaves may have a purple or reddish color. Carrot roots frequently are deformed and develop dense tufts of hairlike rootlets. Scores based on a 1–9 scale, 9 = little disease.

<sup>4</sup>Scores based on a 1–9 scale, 9 = best, highest uniformity, least green color on shoulder, or best flavor.

<sup>5</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Cauliflower<sup>1</sup>

| Variety   | Source      | Maturity | Head Height (cm) | Head Width (cm) | Solidity <sup>2</sup> | Color         | Wrapper Leaves <sup>3</sup> | Overall Score <sup>2</sup> | Cultivar Type <sup>4</sup> | Notes                         |
|-----------|-------------|----------|------------------|-----------------|-----------------------|---------------|-----------------------------|----------------------------|----------------------------|-------------------------------|
| Amazing   | Bejo        | late     | 5.5              | 9.0             | 5                     | cream         | 3                           | 6                          | OP                         |                               |
| Cheddar   | Seminis     | mid      | 7.0              | 11.0            | 7                     | orange-yellow | 1                           | 5                          | F1                         | Novel color.                  |
| Goodman   | High Mowing | late     | 6.0              | 10.0            | 5                     | white         | 3                           | 4                          | OP                         | Heads nice; small plants.     |
| Graffiti  | Nichols     | late     | 7.0              | 12.0            | 3                     | purple        | 5                           | 6                          | F1                         | Purple florets.               |
| Hermon    | Seminis     | late     | 7.0              | 11.0            | 3                     | white         | 3                           | 6                          | F1                         |                               |
| Minuteman | Seminis     | mid      | 8.5              | 14.5            | 5                     | white         | 7                           | 5                          | F1                         | Early maturing; sweet flavor. |
| Novaria   | Rupp        | late     | 8.0              | 12.5            | 7                     | white         | 3                           | 8                          | F1                         |                               |
| Romanesco | High Mowing | late     | 9.5              | 12.0            | 9                     | green         | 1                           | 8                          | F1                         | Wrapper leaves much reduced.  |
| Skywalker | High Mowing | late     | 9.5              | 5.5             | 7                     | white         | 7                           | 8                          | F1                         |                               |

<sup>1</sup>Direct seeded July 13.

<sup>2</sup>Scores based on a 1–9 scale, 9 = most solid or best.

<sup>3</sup>Scores based on a 1–9 scale, 9 = head tightly wrapped at harvest stage. Good wrapper leaves promote good white color of the heads.

<sup>4</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

## Corn, Sweet<sup>1</sup>

| Variety         | Source          | Type <sup>2</sup> | Color   | Days to Harvest | Yield (tons/acre) | Ears/Plant | lbs/Ear | Ear Length (in.) | Ear Diam. (in.) | Kernel Depth (mm) | Pericarp Toughness <sup>3</sup> | Kernel Refinement <sup>4</sup> | Ear Uniformity <sup>5</sup> | Flavor <sup>6</sup> | Overall Score <sup>6</sup> | Notes  |
|-----------------|-----------------|-------------------|---------|-----------------|-------------------|------------|---------|------------------|-----------------|-------------------|---------------------------------|--------------------------------|-----------------------------|---------------------|----------------------------|--|
| Cloud 9         | Rupp            | se                | white   | 95              | 8.6               | 0.72       | 0.47    | 7.4              | 1.9             | 11                | 58                              | 3.0                            | 3.0                         | 2.5                 | 2.5                        | Highly variable maturity, home gardeners could pick sequentially; attractive ears; bland flavor. |
| Fastlane        | Rupp            | se                | bicolor | 84              | 9.3               | 1.14       | 0.43    | 7.1              | 1.7             | 10                | 71                              | 3.0                            | 2.0                         | 4.5                 | 3.5                        | Early maturity; good flavor.   |
| Gold Nuggets    | Rupp            | se                | yellow  | 95              | 10.7              | 0.96       | 0.49    | 7.1              | 2.0             | 11                | 57                              | 4.0                            | 3.0                         | 3.5                 | 3.5                        | Attractive appearance; low yield.  |
| Luscious        | Nichols         | se                | bicolor | 95              | 12.1              | 1.04       | 0.56    | 6.8              | 2.1             | 12                | 72                              | 2.0                            | 5.0                         | 2.5                 | 2.5                        | Fat, fairly short, coarse ears; not sweet.   |
| Pow Wow         | Rupp            | se                | bicolor | 94              | 17.0              | 1.11       | 0.63    | 7.5              | 2.1             | 10                | 85                              | 1.5                            | 3.0                         | 2.0                 | 2.0                        | Not sweet; ears unattractive; shallow kernels make for tough chewing.                            |
| Quickie         | Seeds of Change | se                | bicolor | 84              | 8.2               | 0.79       | 0.43    | 6.4              | 1.7             | 10                | 107                             | 2.0                            | 2.5                         | 3.0                 | 2.5                        | Off-flavor.  |
| Sugar Pearl     | Rupp            | se                | white   | 91              | 8.2               | 0.72       | 0.41    | 6.3              | 1.8             | 10                | 68                              | 3.0                            | 1.5                         | 4.5                 | 2.0                        | Many plants had no useable ears; many very short ears; jumbled rows; excellent flavor.           |
| Synergy         | Rupp            | se                | bicolor | 94              | 20.9              | 1.53       | 0.49    | 7.5              | 1.9             | 9                 | 72                              | 3.0                            | 3.5                         | 3.0                 | 3.0                        | Ears are curved; hard to pick and husk; tender; acceptable flavor though bland.                  |
| Honey and Cream | Seeds of Change | su                | bicolor | 95              | 3.2               | 0.45       | 0.28    | 5.6              | 1.7             | 11                | 82                              | 3.0                            | 2.0                         | 2.0                 | 1.5                        | Very poor yield; not sweet.  |
| Kristine        | Rupp            | syn               | bicolor | 94              | 15.6              | 1.22       | 0.54    | 7.4              | 1.9             | 13                | 79                              | 3.0                            | 3.5                         | 4.0                 | 4.0                        | Sweet but little corn flavor.  |
| Venue           | Rupp            | syn               | bicolor | 91              | 19.4              | 1.19       | 0.58    | 7.0              | 1.8             | 11                | 67                              | 4.0                            | 2.5                         | 4.0                 | 3.5                        | Spiraling, jumbled rows but attractive ears overall.   |
| Avalon          | Seeds of Change | tsw               | bicolor | 110             | 13.8              | 0.86       | 0.63    | 8.2              | 2.0             | 11                | 78                              | 3.5                            | 3.5                         | 4.0                 | 3.5                        | Curved ears; good size; good flavor; sweet.  |
| Honey Select    | Syngenta        | tsw               | yellow  | 98              | 22.5              | 1.71       | 0.54    | 8.3              | 2.0             | 13                | 92                              | 2.5                            | 3.5                         | 4.0                 | 3.5                        | Good yield; somewhat coarse ears but good flavor.  |
| Primus          | Rupp            | tsw               | bicolor | 95              | 16.4              | 1.52       | 0.49    | 8.0              | 1.8             | 8                 | 60                              | 3.0                            | 4.0                         | 4.5                 | 4.0                        | Hard to pick and husk; very good yield; sweet and tender.  |

<sup>1</sup>Direct seeded June 25 in rows 30 inches apart, thinned to 9 inches between plants. All data were obtained from typical, husked, good ears. For ear length, ear diameter, and tenderness, the value shown is the average of 10 individual ear measurements. All varieties are hybrids.

<sup>2</sup>su = standard sweet corn; se = sugary enhanced; tsw = triple sweet; sh2 = supersweet; syn = synergistic. Supersweet corn must be isolated from the other types by time or distance. Sugary, sugary enhanced, triple sweet, and synergistic may be grown together, although quality may be affected by outcrossing with other types.

<sup>3</sup>Tenderness (pericarp toughness) was determined by a spring-operated puncture gauge; lower numbers indicate more tender pericarp.

<sup>4</sup>Scores based on a 1–5 scale, 5 = most refined. Kernel refinement is a subjective measure of kernel size and uniformity; small, evenly sized kernels are preferable.

<sup>5</sup>Scores based on a 1–5 scale, 5 = most uniform. Ear uniformity refers to the degree of variation among ears.

<sup>6</sup>Scores based on a 1–5 scale, 5 = best.

## Corn, Sweet<sup>1</sup>

| Variety          | Source   | Type <sup>2</sup> | Color   | Days to Harvest | Yield (tons/acre) | Ears/Plant | lbs/Ear | Ear Length (in.) | Ear Diam. (in.) | Kernel Depth (mm) | Pericarp Toughness <sup>3</sup> | Kernel Refinement <sup>4</sup> | Ear Uniformity <sup>5</sup> | Flavor <sup>6</sup> | Overall Score <sup>6</sup> | Notes   |
|------------------|----------|-------------------|---------|-----------------|-------------------|------------|---------|------------------|-----------------|-------------------|---------------------------------|--------------------------------|-----------------------------|---------------------|----------------------------|---|
| Providence       | Syngenta | tsw               | bicolor | 110             | 12.9              | 0.84       | 0.55    | 7.5              | 1.9             | 12                | 116                             | 2.5                            | 3.5                         | 3.0                 | 3.0                        | Hard to pick; attractive ears but bad tip fill; good flavor but little sweetness.                     |
| Attraction       | Rupp     | sh2               | bicolor | 95              | 6.4               | 0.59       | 0.46    | 6.5              | 1.9             | 9                 | 76                              | 3.0                            | 4.0                         | 4.0                 | 3.0                        | Short ears; poor yield; sweet but no corn flavor.   |
| Fusion           | Rupp     | sh2               | bicolor | 95              | 16.3              | 1.10       | 0.57    | 7.4              | 2.0             | 11                | 94                              | 2.5                            | 3.5                         | 4.0                 | 4.0                        | Fat ears tend to bulge in the middle; hard to husk; very good yield; sweet.                           |
| Garrison         | Syngenta | sh2               | yellow  | 94              | 25.0              | 1.77       | 0.62    | 8.1              | 2.0             | 11                | 124                             | 4.5                            | 5.0                         | 3.0                 | 3.0                        | A few curved ears; easy to pick and husk; slight off-flavor; tough; very good yield; mediocre flavor. |
| Mirai 4216       | Rupp     | sh2               | bicolor | 98              | 12.2              | 0.81       | 0.64    | 7.6              | 2.1             | 12                | 112                             | 2.0                            | 3.0                         | 3.5                 | 3.0                        | Low yield; coarse ears.   |
| Obsession        | Seminis  | sh2               | bicolor | 98              | 21.9              | 1.54       | 0.58    | 7.5              | 2.0             | 12                | 101                             | 3.0                            | 4.0                         | 3.5                 | 3.5                        | Some curved ears; very good yield.  |
| Optimum          | Rupp     | sh2               | bicolor | 91              | 10.4              | 1.13       | 0.44    | 7.0              | 1.7             | 9                 | 75                              | 3.5                            | 2.5                         | 4.0                 | 3.0                        | Curved ears; some very jumbled rows and gaps; low yield.  |
| Passion          | Seminis  | sh2               | yellow  | 96              | 22.4              | 1.62       | 0.55    | 7.6              | 2.0             | 12                | 85                              | 4.0                            | 4.0                         | 4.0                 | 4.0                        | Very sweet, little corn flavor; excellent yield.  |
| Ravelin          | Rupp     | sh2               | yellow  | 91              | 11.0              | 0.93       | 0.48    | 7.5              | 1.8             | 10                | 109                             | 3.0                            | 3.5                         | 3.5                 | 3.5                        | Curved ears; some spiraling; flavor is not as sweet but good, complex corn flavor.                    |
| Xtra Tender 2573 | Rupp     | sh2               | bicolor | 94              | 13.8              | 0.89       | 0.63    | 7.5              | 2.0             | 10                | 94                              | 2.0                            | 3.0                         | 4.0                 | 2.5                        | Curved, fat ears with excellent flavor but unattractive and poor yield.                               |
| Xtra Tender 374A | Johnny's | sh2               | white   | 91              | 20.7              | 1.50       | 0.56    | 7.4              | 2.0             | 10                | 86                              | 3.5                            | 3.0                         | 4.0                 | 4.0                        | High yielding, though results may be skewed since from a single plot on an outside row.               |

<sup>1</sup>Direct seeded June 25 in rows 30 inches apart, thinned to 9 inches between plants. All data were obtained from typical, husked, good ears. For ear length, ear diameter, and tenderness, the value shown is the average of 10 individual ear measurements. All varieties are hybrids.

<sup>2</sup>su = standard sweet corn; se = sugary enhanced; tsw = triple sweet; sh2 = supersweet; syn = synergistic. Supersweet corn must be isolated from the other types by time or distance. Sugary, sugary enhanced, triple sweet, and synergistic may be grown together, although quality may be affected by outcrossing with other types.

<sup>3</sup>Tenderness (pericarp toughness) was determined by a spring-operated puncture gauge; lower numbers indicate more tender pericarp.

<sup>4</sup>Scores based on a 1–5 scale, 5 = most refined. Kernel refinement is a subjective measure of kernel size and uniformity; small, evenly sized kernels are preferable.

<sup>5</sup>Scores based on a 1–5 scale, 5 = most uniform. Ear uniformity refers to the degree of variation among ears.

<sup>6</sup>Scores based on a 1–5 scale, 5 = best.

# Cucumber<sup>1</sup>

| Variety           | Source      | Type <sup>2</sup> | Fruit Defects <sup>3</sup> | Plant Vigor <sup>4</sup> | Skin Color                | Spine Color   | Fruit Length (cm) | Fruit Width (cm) | Anglar Leaf Spot <sup>3</sup> | Uniformity <sup>4</sup> | Overall Score <sup>4</sup> | Cultivar Type <sup>5</sup> | Notes  |
|-------------------|-------------|-------------------|----------------------------|--------------------------|---------------------------|---------------|-------------------|------------------|-------------------------------|-------------------------|----------------------------|----------------------------|--|
| Armenian          | Nichols     | Armenian          | 0                          | 9                        | light green               | spineless     | 23.2              | 4.6              | 2                             | 5                       | 7                          | OP                         | A light fruit set, very late in season; sweet. |
| Brocade           | Nichols     | Asian             | large spines               | 7                        | medium green              | big and white | 43.6              | 3.5              | 8                             | 6                       | 6                          | OP                         |  |
| Sultan            | Hollar      | Beit Alpha        | 0                          | 4                        | medium green              | spineless     | 16.8              | 4.7              | 3                             | 6                       | 7                          | F1                         |  |
| Boothby Blonde    | High Mowing | fresh market      | 0                          | 7                        | light yellow to green     | black         | 8.2               | 3.3              | 2                             | 8                       | 8                          | OP                         | Tender and crisp.                              |
| Diomedea          | Rupp        | fresh market      | 0                          | 3                        | dark green                | white         | 22.6              | 5.1              | 2                             | 8                       | 6                          | OP                         |  |
| Fanfare           | Seminis     | fresh market      | 0                          | 6                        | dark green                | white         | 27.2              | 5.6              | 3                             | 7                       | 7                          | F1                         | Very thick skin.                               |
| Fountain          | Territorial | fresh market      | incomplete pollination     | 4                        | dark green                | white         | 26.5              | 4.2              | 6                             | 4                       | 4                          | F1                         | Not a heavy fruit set.                         |
| Genuine           | Johnny's    | fresh market      | 0                          | 7                        | dark green                | white         | 19.3              | 4.8              | 5                             | 7                       | 7                          | F1                         |  |
| Marketmore 76     | Hollar      | fresh market      | 0                          | 7                        | dark green                | white         | 18.4              | 4.1              | 2                             | 7                       | 7                          | OP                         | Uneven fruit set.                              |
| Olympian          | Hollar      | fresh market      | 0                          | 6                        | medium green              | white         | 26                | 6.3              | 3                             | 7                       | 6                          | F1                         |  |
| Pearl             | Territorial | fresh market      | barbell-shaped fruit       | 9                        | light green; nearly white | white         | 14.1              | 4.4              | 3                             | 6                       | 7                          | OP                         | Great flavor.                                  |
| Saber             | High Mowing | fresh market      | 0                          | 8                        | dark green                | white         | 24.8              | 5.4              | 3                             | 8                       | 6                          | F1                         | Thick skin.                                    |
| Yaniv             | High Mowing | fresh market      | 0                          | 7                        | dark green                | white         | 16.7              | 3.9              | 2                             | 6.5                     | 6                          | F1                         | Astringent flavor.                             |
| Agnes             | Territorial | pickling          | 0                          | 8                        | medium green              | white         | 12.6              | 4.1              | 2                             | 8                       | 8                          | F1                         | Sweet; not crunchy.                            |
| Diamant           | Territorial | pickling          | barbell-shaped fruit       | 3                        | medium green              | white         | 12.8              | 4.5              | 7                             | 6                       | 5                          | F1                         |  |
| McPick            | Territorial | pickling          | 0                          | 9                        | green                     | white         | 13.1              | 3.5              | 2                             | 7                       | 7                          | F1                         |  |
| Northern Pickling | Johnny's    | pickling          | 0                          | 7                        | green                     | black         | 12.1              | 4.4              | 3                             | 5                       | 4                          | OP                         | Variable fruit shape and maturity.             |
| Vertina           | Johnny's    | pickling          | 0                          | 4                        | dark green                | black         | 10.9              | 3.6              | 4                             | 8                       | 8                          | F1                         | Very early.                                    |
| White Wonder      | Nichols     | pickling          | odd shape                  | 8                        | white                     | white         | 12.3              | 3.3              | 2                             | 7                       | 7                          | OP                         | Off fruit shape and flavor.                    |

<sup>1</sup>Direct seeded June 29.

<sup>2</sup>**Armenian**: very long, ribbed, thin skin not requiring peeling and will cross with *Cucumis melo*, whereas other cucumbers will not (*C. sativus*); **Beit Alpha**: small, sweet, parthenocarpic, adapted to dry climate of the Middle East; **fresh market** = long, smooth, uniform color with tough skin; **pickling**: uniform length-to-diameter ratios.

<sup>3</sup>Characteristics that make the fruit less marketable.

<sup>4</sup>Scores based on a 1–9 scale, 1 = bush, 9 = vigorous vine.

<sup>5</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Eggplant<sup>1</sup>

| Variety          | Source                        | Fruit Color             | Fruit Shape | Fruit Length (cm) | Fruit Width (cm) | Plant Height (cm) | Est. Yield <sup>2</sup> | Verticillium Resistance <sup>3</sup> | Flea beetle damage <sup>3</sup> | Overall Score <sup>2</sup> | Cultivar Type <sup>4</sup> | Notes                            |
|------------------|-------------------------------|-------------------------|-------------|-------------------|------------------|-------------------|-------------------------|--------------------------------------|---------------------------------|----------------------------|----------------------------|----------------------------------|
| Antigua          | Tomato Growers Supply Company | purple                  | pear        | 15.8              | 7.1              | 57.2              | 5                       | 7                                    | 6                               | 7                          | OP                         | Small fruit.                     |
| Beatrice         | Johnny's                      | purple                  | round       | 9.7               | 6.4              | 70.0              | 7                       | 4                                    | 7                               | 6                          | F1                         |                                  |
| Black King       | Territorial                   | dark purple             | pear        | 12.6              | 7.2              | 54.0              | 8                       | 6                                    | 5                               | 8                          | F1                         | No spines.                       |
| Calliope         | Johnny's                      | white stripes on purple | pear        | 11.4              | 5.9              | 63.0              | 4                       | 4                                    | 2                               | 5                          | F1                         |                                  |
| Classic          | High Mowing                   | purple                  | pear        | 16.8              | 6.4              | 87.8              | 6                       | 8                                    | 6                               | 7                          | F1                         | Spines on calyx.                 |
| Dancer           | Johnny's                      | violet                  | pear        | 14.1              | 5.7              | 89.0              | 7                       | 4                                    | 3                               | 8                          | F1                         | Spines on calyx.                 |
| Diamond          | Fedco                         | purple                  | elongate    | 17.8              | 6.0              | 59.0              | 7                       | 2                                    | 5                               | 7                          | OP                         | No spines on calyx.              |
| Epic             | Rupp                          | dark purple             | pear        | 21.7              | 7.8              | 67.0              | 5                       | 8                                    | 4                               | 3                          | F1                         | Spines on calyx.                 |
| Fairy Tale       | Seminis                       | white stripes on purple | elongate    | 13.4              | 3.5              | 24.5              | 6                       | 8                                    | 5                               | 5                          | F1                         |                                  |
| Falcon           | High Mowing                   | purple                  | elongate    | 24.4              | 6.3              | 65.9              | 6                       | 6                                    | 8                               | 6                          | F1                         | No spines.                       |
| Galine           | Johnny's                      | purple                  | pear        | 18.7              | 8.7              | 53.0              | 7                       | 7                                    | 4                               | 5                          | F1                         | Spines present; breaks at calyx. |
| Green Goodness   | Nichols                       | light green             | elongate    | 22.1              | 4.1              | 67.5              | 6                       | 7                                    | 6                               | 6                          | F1                         | Spines on calyx.                 |
| Gretel           | Seminis                       | white                   | elongate    | 23.8              | 3.0              | 57.5              | 8                       | 8                                    | 2                               | 6                          | F1                         | Spines on calyx.                 |
| Hansel           | Territorial                   | purple                  | elongate    | 22.2              | 3.5              | 65.0              | 9                       | 7                                    | 6                               | 7                          | F1                         | No spines.                       |
| Italian White    | Seeds of Change               | light green             | round       | 12.5              | 9.1              | 59.0              | 6                       | 3                                    | 4                               | 6                          | OP                         | Spines on calyx.                 |
| Mangan           | Johnny's                      | dark purple             | pear        | 20.1              | 6.2              | 79.5              | 7                       | 3                                    | 8                               | 6                          | F1                         | Some sunburn; spines present.    |
| Millionaire      | Territorial                   | purple                  | pear        | 23.7              | 5.8              | 61.4              | 5                       | 6                                    | 8                               | 6                          | F1                         | Spines on calyx.                 |
| Nadia            | Johnny's                      | purple                  | pear        | 13.8              | 5.3              | 69.8              | 2                       | 5                                    | 8                               | 3                          | F1                         | Spines on calyx.                 |
| Nubia            | Johnny's                      | white stripes on purple | pear        | 22.2              | 8.9              | 58.5              | 4                       | 2                                    | 5                               | 6                          | F1                         | Spines on calyx.                 |
| Opal             | High Mowing                   | purple                  | pear        | 19.1              | 10.3             | 75.7              | 5                       | 3                                    | 2                               | 8                          | OP                         | Large blossom end scar.          |
| Orient Charm     | Johnny's                      | light purple            | elongate    | 21.3              | 3.2              | 57.0              | 6                       | 7                                    | 7                               | 7                          | F1                         | No spines.                       |
| Ravena           | Johnny's                      | light green             | elongate    | 20.5              | 3.3              | 71.0              | 7                       | 7                                    | 3                               | 6                          | F1                         | No spines.                       |
| Rosa Bianca      | High Mowing                   | white stripes on purple | round       | 8.4               | 8.5              | 65.6              | 5                       | 7                                    | 2                               | 6                          | OP                         | Spiny, lobed fruit.              |
| Twinkle          | Territorial                   | white stripes on purple | round       | 8.3               | 6.1              | 62.0              | 6                       | 7                                    | 4                               | 7                          | F1                         |                                  |
| White Lightening | Rupp                          | white                   | pear        | 24.4              | 7.1              | 74.2              | 7                       | 8                                    | 7                               | 5                          | F1                         | Spines on calyx.                 |

<sup>1</sup>Transplanted June 8.

<sup>2</sup>Scores based on a 1–9 scale, 9 = highest yield or best.

<sup>3</sup>Scores based on a 1–9 scale, 9 = most resistance. Verticillium wilt is a disease caused by soilborne fungi.

<sup>4</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.



# Kale<sup>1</sup>

| Variety     | Source      | Type         | Leaf Type           | Color       | Plant Height (cm) | Flavor <sup>2</sup> | Overall Score <sup>2</sup> | Cultivar Type <sup>3</sup> | Notes           |
|-------------|-------------|--------------|---------------------|-------------|-------------------|---------------------|----------------------------|----------------------------|-----------------|
| Fizz        | Territorial | salad        | oak leaf            | blue-green  | 92                | 7                   | 7                          | OP                         |                 |
| Red Chidori | Territorial | ornamental   | ruffled             | pink-purple | 27                | -                   | 7                          | F1                         | Purple centers. |
| Starbor     | Johnny's    | garnish kale | ruffled             | blue-green  | 45                | 7                   | 7                          | F1                         |                 |
| Tuscan      | Nichols     | Tuscan       | rugose, strong leaf | green-black | 74                | 8                   | 8                          | OP                         |                 |

<sup>1</sup>Direct seeded July 13.

<sup>2</sup>Scores based on a 1–9 scale, 9 = best.

<sup>3</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Lettuce<sup>1</sup>

| Variety           | Source      | Type <sup>2</sup> | Leaf Description | Color         | Vigor <sup>3</sup> | Overall Score <sup>3</sup> | Cultivar Type <sup>4</sup> | Notes              |
|-------------------|-------------|-------------------|------------------|---------------|--------------------|----------------------------|----------------------------|--------------------|
| Antago            | Johnny's    | lollo             | savoy            | red           | 5                  | 8                          | OP                         |                    |
| Blade             | High Mowing | oak leaf          | smooth           | red           | 7                  | 8                          | OP                         |                    |
| Cobham Red Oak    | Johnny's    | oak leaf          | wavy             | red           | 6                  | 7                          | OP                         | Off-types in plot. |
| Ferrari           | Johnny's    | oak leaf          | wavy             | red           | 7                  | 7                          | OP                         |                    |
| Firecracker       | Johnny's    | red leaf          | semi-savoy       | red           | 4                  | 7                          | OP                         |                    |
| Flashy Butter Oak | Territorial | oak leaf          | smooth           | red and green | 7                  | 7                          | OP                         | Variegated.        |
| Malawi            | Johnny's    | oak leaf          | smooth           | dark red      | 8                  | 8                          | OP                         |                    |
| Midnight Ruffles  | Territorial | oak leaf          | blistered        | red           | 8                  | 8                          | OP                         |                    |
| Panisse           | Johnny's    | oak leaf          | wavy             | green         | 5                  | 4                          | OP                         |                    |
| Red Velvet        | Territorial | loose leaf        | semi-savoy       | red and green | 7                  | 8                          | OP                         |                    |
| Revolution        | Territorial | lollo             | ruffled          | red           | 2                  | 5                          | OP                         |                    |
| Sergeant          | Johnny's    | oak leaf          | ruffled          | green         | 3                  | 4                          | OP                         |                    |
| Soltero           | Johnny's    | lollo             | ruffled          | red and green | 5                  | 5                          | OP                         |                    |
| Sulu              | Johnny's    | oak leaf          | wavy             | green         | 7                  | 6                          | OP                         |                    |
| Truckee           | Johnny's    | oak leaf          | wavy             | light green   | 6                  | 2                          | OP                         |                    |

<sup>1</sup>Direct seeded July 27.

<sup>2</sup>**Lollo** types may form a small head but are generally grown for their highly frilled, decorative leaves. **Leaf lettuces** generally do not form heads. **Oak leaf** is a specialized type of leaf lettuce with leaves that resemble oak leaves.

<sup>3</sup>Scores based on a 1–9 scale, 9 = best or most uniform.

<sup>4</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Melon<sup>1</sup>

| Variety      | Source      | Type <sup>2</sup> | Maturity  | Fruit Length (cm) | Fruit Width (cm) | Cavity Length (cm) | Cavity Width (cm) | Rind Color                          | Flesh Color      | Netting <sup>3</sup> | Ribbing <sup>4</sup> | Angular Leaf Spot <sup>5</sup> | Powdery Mildew <sup>5</sup> | Yield <sup>6</sup> | Flavor <sup>6</sup> | Brix <sup>7</sup> | Overall Score <sup>6</sup> | Cultivar Type <sup>8</sup> | Notes <sup>9</sup>                             |
|--------------|-------------|-------------------|-----------|-------------------|------------------|--------------------|-------------------|-------------------------------------|------------------|----------------------|----------------------|--------------------------------|-----------------------------|--------------------|---------------------|-------------------|----------------------------|----------------------------|--|
| Barbados     | D. Palmer   | Ananas            | late      | 15.7              | 13.5             | 10.6               | 6.7               | green                               | pale cream-green | 6                    | 1                    | 4                              | 7                           | 7                  | 5                   | 10.1              | 6                          | F1                         |  |
| Duke         | Hollar      | Ananas            | mid-late  | 17.2              | 13.4             | 11.3               | 7.4               | orange-green                        | cream-white      | 4                    | 1                    | 1                              | 8                           | 4                  | 7                   | 5.8               | 6                          | F1                         |  |
| Trinidad     | D. Palmer   | Ananas            | late      | 20.4              | 15.6             | 12.7               | 5.4               | dark green                          | pale green       | 6                    | 1                    | 3                              | 9                           | 3                  | 7                   | 9.2               | 6                          | F1                         |  |
| Brilliant    | Johnny's    | canary            | mid       | 10.6              | 12.2             | 9.5                | 5.5               | yellow                              | cream-green      | 1                    | 1                    | 3                              | 8                           | 4                  | 8                   | 13.4              | 6                          | F1                         | Crisp and crunchy.                             |
| Kincho       | Nichols     | canary            | early-mid | 14.1              | 9.6              | 11.0               | 5.1               | yellow with white stripes           | white            | 1                    | 6                    | 8                              | 6                           | 8                  | 2                   | 11.5              | 5                          | F1                         |  |
| Alvaro       | Territorial | charantais        | early     | 14.4              | 14.3             | 9.7                | 7.2               | light green with dark green stripes | orange           | 2                    | 8                    | 6                              | 9                           | 2                  | 8                   | 12.8              | 5                          | F1                         |  |
| Summer Dream | Nichols     | charantais        | late      | 13.6              | 14.7             | 7.8                | 5.8               | pale green                          | orange           | 2                    | 1                    | 8                              | 8                           | 8                  | immature            | -                 | -                          | F1                         | When immature, flavor and brix were not taken. |

<sup>1</sup>Direct seeded June 8 with 60-inch row spacing.

<sup>2</sup>**Ananas** are of Middle Eastern origin, are round and fairly large, and have green-to-golden skin and green-to-white flesh; they are very sweet but ripen quickly in the field and do not store well. **Canary** types are oblong with bright yellow rind and green flesh. **Charentais** melons are usually small with blue-green rind, slight ribbing, and orange flesh; they do not "slip" the vine when ripe, and they have sweet, aromatic flesh. **Galia** types are of Middle Eastern origin and are typically round with moderate-to-heavy netting and lime-green flesh. **Honeydews** are typically white or yellow skinned, do not have ribbing, do not "slip" the vine when ripe, and have a more crisp texture than cantaloupes. **Muskmelons** have netted rinds and a sweet, musky smell. **Piel de Sapo** melons are football shaped, have dark green skins and pale flesh, and require more heat than other types. **Western shipper** types have round, thick-walled fruit that are heavily netted but lack ribbing.

<sup>3</sup>Netting refers to the "crosshatch" appearance of the rind; moderate-to-heavy netting is preferred for shipping melons to prevent damage. Scores based on a 1–9 scale, 9 = heavy netting.

<sup>4</sup>Ribbing refers to the segmentation of the fruit apparent on the outside. Scores based on a 1–9 scale, 9 = deeply ribbed.

<sup>5</sup>Disease scores based on a 1–9 scale, 9 = no disease.

<sup>6</sup>Scores based on a 1–9 scale, 9 = highest or best.

<sup>7</sup>Brix: percent soluble solids (a measure of sweetness); higher numbers indicate sweeter fruit.

<sup>8</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

<sup>9</sup>Fusarium wilt of melon is caused by a seed- and soilborne fungus that is specific to melon.

# Melon<sup>1</sup>

| Variety      | Source      | Type <sup>2</sup> | Maturity  | Fruit Length (cm) | Fruit Width (cm) | Cavity Length (cm) | Cavity Width (cm) | Rind Color                 | Flesh Color | Netting <sup>3</sup> | Ribbing <sup>4</sup> | Angular Leaf Spot <sup>5</sup> | Powdery Mildew <sup>5</sup> | Yield <sup>6</sup> | Flavor <sup>6</sup> | Brix <sup>7</sup> | Overall Score <sup>6</sup> | Cultivar Type <sup>8</sup> | Notes <sup>9</sup>                             |
|--------------|-------------|-------------------|-----------|-------------------|------------------|--------------------|-------------------|----------------------------|-------------|----------------------|----------------------|--------------------------------|-----------------------------|--------------------|---------------------|-------------------|----------------------------|----------------------------|--|
| Diplomat     | Hollar      | Galia             | mid       | 13.7              | 14.2             | 8.3                | 5.1               | bright yellow              | light green | 3                    | 1                    | 7                              | 6                           | 6                  | 4                   | 7.3               | 6                          | F1                         |  |
| Dove         | Hollar      | Galia             | early-mid | 13.6              | 12.2             | 7.8                | 5.9               | yellow-orange              | white-green | 3                    | 1                    | 6                              | 7                           | 7                  | 7                   | 13.0              | 7                          | F1                         | Delicate flavor.                               |
| Early Gala   | Territorial | Galia             | early-mid | 15.1              | 15.7             | 9.6                | 6.1               | yellow-green               | green       | 8                    | 1                    | 6                              | 7                           | 7                  | 8                   | 12.1              | 7                          | F1                         |  |
| Visa         | Hollar      | Galia             | early     | 14.5              | 13.7             | 9.3                | 5.8               | yellow-orange              | green       | 4                    | 1                    | 7                              | 9                           | 7                  | 4                   | 10.6              | 4                          | F1                         | Angular leaf spot severe on fruit.             |
| Honey Brew   | Sakata      | honeydew          | late      | 18.9              | 16.2             | 12.0               | 8.5               | cream-green                | green       | 1                    | 1                    | 8                              | 9                           | 4                  | immature            | -                 | -                          | F1                         | When immature, flavor and brix were not taken. |
| Snow Leopard | Johnny's    | honeydew          | mid       | 14.1              | 10.6             | 9.7                | 4.9               | white with green spots     | white-green | 1                    | 1                    | 7                              | 6                           | 6                  | 4                   | 11.8              | 5                          | F1                         | Split set maturity.                            |
| Sprite       | Johnny's    | honeydew          | mid-late  | 9.0               | 9.2              | 5.2                | 4.3               | cream-yellow               | cream       | 2                    | 1                    | 7                              | 2                           | 9                  | 7                   | 12.2              | 6                          | F1                         |  |
| Tigger       | Territorial | honeydew          | late      | 6.1               | 8.8              | 5.3                | 5.3               | orange with yellow stripes | white       | 1                    | 1                    | 6                              | 7                           | 7                  | 3                   | 9.2               | 5                          | OP                         |  |

<sup>1</sup>Direct seeded June 8 with 60-inch row spacing.

<sup>2</sup>**Ananas** are of Middle Eastern origin, are round and fairly large, and have green-to-golden skin and green-to-white flesh; they are very sweet but ripen quickly in the field and do not store well. **Canary** types are oblong with bright yellow rind and green flesh. **Charentais** melons are usually small with blue-green rind, slight ribbing, and orange flesh; they do not “slip” the vine when ripe, and they have sweet, aromatic flesh. **Galia** types are of Middle Eastern origin and are typically round with moderate-to-heavy netting and lime-green flesh. **Honeydews** are typically white or yellow skinned, do not have ribbing, do not “slip” the vine when ripe, and have a more crisp texture than cantaloupes. **Muskmelons** have netted rinds and a sweet, musky smell. **Piel de Sapo** melons are football shaped, have dark green skins and pale flesh, and require more heat than other types. **Western shipper** types have round, thick-walled fruit that are heavily netted but lack ribbing.

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<sup>4</sup>Ribbing refers to the segmentation of the fruit apparent on the outside. Scores based on a 1–9 scale, 9 = deeply ribbed.

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<sup>9</sup>Fusarium wilt of melon is caused by a seed- and soilborne fungus that is specific to melon.

# Melon<sup>1</sup>

| Variety    | Source      | Type <sup>2</sup> | Maturity  | Fruit Length (cm) | Fruit Width (cm) | Cavity Length (cm) | Cavity Width (cm) | Rind Color   | Flesh Color | Netting <sup>3</sup> | Ribbing <sup>4</sup> | Angular Leaf Spot <sup>5</sup> | Powdery Mildew <sup>5</sup> | Yield <sup>6</sup> | Flavor <sup>6</sup> | Brix <sup>7</sup> | Overall Score <sup>6</sup> | Cultivar Type <sup>8</sup> | Notes <sup>9</sup>                             |
|------------|-------------|-------------------|-----------|-------------------|------------------|--------------------|-------------------|--------------|-------------|----------------------|----------------------|--------------------------------|-----------------------------|--------------------|---------------------|-------------------|----------------------------|----------------------------|--|
| Superstar  | Territorial | muskmelon         | late      | 16.3              | 17.1             | 9.9                | 8.7               | pale green   | orange      | 9                    | 8                    | 8                              | 9                           | 9                  | 9                   | 12.8              | 9                          | F1                         |  |
| Wrangler   | Hollar      | muskmelon         | mid       | 17.3              | 14.2             | 11.3               | 5.6               | tan-green    | orange      | 8                    | 7                    | 1                              | 5                           | 7                  | 8                   | 11.2              | 7                          | F1                         |  |
| Lambkin    | Nichols     | Piel de Sapo      | late      | 16.9              | 12.3             | 11.2               | 5.4               | green-yellow | light green | 1                    | 1                    | 5                              | 4                           | 5                  | 8                   | 12.3              | 7                          | F1                         | Firm, crunchy texture.                         |
| Ariel      | Rupp        | western shipper   | mid-late  | 19.8              | 16.3             | 15.2               | 7.6               | tan-green    | orange      | 9                    | 2                    | 6                              | 8                           | 7                  | 8                   | 9.9               | 8                          | F1                         | Big, heavy fruit.                              |
| Colima     | Seminis     | western shipper   | late      | 15.6              | 14.3             | 11.5               | 6.1               | green        | orange      | 8                    | 1                    | 7                              | 8                           | 6                  | immature            | -                 | -                          | F1                         | When immature, flavor and brix were not taken. |
| Dacona     | Hollar      | western shipper   | mid-late  | 12.4              | 12.9             | 6.8                | 5.4               | green        | orange      | 8                    | 1                    | 6                              | 5                           | 8                  | 5                   | 9.5               | 6                          | F1                         | Nice firm texture.                             |
| Dutchess   | Rupp        | western shipper   | mid       | 17.5              | 14.8             | 11.6               | 6.2               | tan-yellow   | orange      | 6                    | 2                    | 5                              | 7                           | 8                  | 9                   | 13.3              | 9                          | OP                         | Heavy fruits.                                  |
| Earl-champ | Hollar      | western shipper   | early     | 15.6              | 13.8             | 10.5               | 5.6               | tan-orange   | orange      | 7                    | 1                    | 2                              | 3                           | 6                  | 7                   | 8.9               | 8                          | F1                         |  |
| Grand Slam | Hollar      | western shipper   | early-mid | 16.9              | 13.7             | 11.2               | 5.9               | cream-green  | orange      | 6                    | 1                    | 1                              | 4                           | 3                  | 6                   | 6.8               | 5                          | F1                         |  |

<sup>1</sup>Direct seeded June 8 with 60-inch row spacing.

<sup>2</sup>**Ananas** are of Middle Eastern origin, are round and fairly large, and have green-to-golden skin and green-to-white flesh; they are very sweet but ripen quickly in the field and do not store well. **Canary** types are oblong with bright yellow rind and green flesh. **Charentais** melons are usually small with blue-green rind, slight ribbing, and orange flesh; they do not “slip” the vine when ripe, and they have sweet, aromatic flesh. **Galia** types are of Middle Eastern origin and are typically round with moderate-to-heavy netting and lime-green flesh. **Honeydews** are typically white or yellow skinned, do not have ribbing, do not “slip” the vine when ripe, and have a more crisp texture than cantaloupes. **Muskmelons** have netted rinds and a sweet, musky smell. **Piel de Sapo** melons are football shaped, have dark green skins and pale flesh, and require more heat than other types. **Western shipper** types have round, thick-walled fruit that are heavily netted but lack ribbing.

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# Melon<sup>1</sup>

| Variety             | Source   | Type <sup>2</sup>  | Matu-<br>rity | Fruit<br>Length<br>(cm) | Fruit<br>Width<br>(cm) | Cavity<br>Length<br>(cm) | Cavity<br>Width<br>(cm) | Rind<br>Color  | Flesh<br>Color | Net-<br>ting <sup>3</sup> | Rib-<br>bing <sup>4</sup> | Angu-<br>lar Leaf<br>Spot <sup>5</sup> | Pow-<br>dery<br>Mildew <sup>5</sup> | Yield <sup>6</sup> | Flavor <sup>6</sup> | Brix <sup>7</sup> | Over-<br>all<br>Score <sup>6</sup> | Cul-<br>tivar<br>Type <sup>8</sup> | Notes <sup>9</sup>                                   |
|---------------------|----------|--------------------|---------------|-------------------------|------------------------|--------------------------|-------------------------|----------------|----------------|---------------------------|---------------------------|--|-------------------------------------|--------------------|---------------------|-------------------|------------------------------------|------------------------------------|--|
| Hales Best<br>Jumbo | Hollar   | western<br>shipper | mid           | 11.7                    | 10.5                   | 7.0                      | 5.7                     | tan            | orange         | 7                         | 1                         | 2                                      | 1                                   | 5                  | 6                   | 10.7              | 4                                  | OP                                 | Undersized<br>fruit due to<br>Fusarium.              |
| Home Run            | Hollar   | western<br>shipper | mid           | 17.0                    | 13.5                   | 11.3                     | 6.1                     | tan-<br>orange | orange         | 5                         | 1                         | 1                                      | 3                                   | 5                  | 4                   | 8.0               | 4                                  | F1                                 |  |
| Sarah's<br>Choice   | Johnny's | western<br>shipper | late          | 16.3                    | 14.4                   | 10.0                     | 7.8                     | pale<br>green  | orange         | 7                         | 1                         | 7                                      | 5                                   | 9                  | 8                   | 12.6              | 8                                  | F1                                 | Evaluation<br>done on<br>slightly<br>immature fruit. |
| Sugar<br>Cube       | Rupp     | western<br>shipper | mid-<br>late  | 12.2                    | 12.0                   | 7.7                      | 5.2                     | tan            | orange         | 6                         | 1                         | 6                                      | 5                                   | 8                  | 8                   | 13.4              | 8                                  | F1                                 | Small fruit.   |

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# Onion<sup>1</sup>

| Variety       | Source      | Maturity   | Color  | Length (cm) | Width (cm) | Shape  | Neck <sup>2</sup> | Storage <sup>3</sup> | Thrips <sup>4</sup> | Disease <sup>5</sup> | Overall Score <sup>6</sup> | Cultivar Type <sup>7</sup> | Notes <sup>8</sup>               |
|---------------|-------------|------------|--------|-------------|------------|--------|-------------------|----------------------|---------------------|----------------------|----------------------------|----------------------------|----------------------------------|
| Citation      | Seminis     | mid        | yellow | 8.5         | 9.5        | round  | 4                 | 3                    | 3                   | 5                    | 4                          | F1                         | Tops died back after heavy rain. |
| Cortland      | High Mowing | mid        | yellow | 10.0        | 8.5        | oblate | 1                 | 3                    | 5                   | 7                    | 3                          | F1                         |                                  |
| Countach      | Nunhems     | mid        | red    | 8.0         | 9.5        | round  | 4                 | 7                    | 3                   | 3                    | 6                          | F1                         | Tops died back after heavy rain. |
| Electric      | Bejo        | early      | red    | 8.5         | 8.0        | oblong | 9                 | 1                    | 5                   | 3                    | 1                          | OP                         |                                  |
| Gladstone     | Bejo        | late       | white  | 9.5         | 8.0        | oblong | 2                 | 2                    | 5                   | 7                    | 2                          | OP                         | Poor stand; glossy.              |
| Marengo       | Nunhems     | mid        | red    | 7.5         | 8.5        | oblate | 2                 | 4                    | 5                   | 3                    | 4                          | F1                         | Tops died back after heavy rain. |
| Mars          | Territorial | mid        | red    | 9.5         | 9.0        | oblong | 4                 | 3                    | 5                   | 5                    | 3                          | F1                         |                                  |
| Montagna      | Bejo        | very early | yellow | 7.5         | 8.0        | oblong | 8                 | 1                    | 3                   | 3                    | 1                          | F1                         |                                  |
| Montero       | Nunhems     | mid        | yellow | 10.0        | 10.0       | oblate | 6                 | 2                    | 3                   | 7                    | 3                          | F1                         | Tops died back after heavy rain. |
| Nebula        | Nunhems     | mid        | yellow | 9.1         | 8.7        | round  | 4                 | 7                    | 3                   | 5                    | 8                          | OP                         |                                  |
| Nobility      | Nichols     | mid        | yellow | 9.3         | 8.5        | oblong | 6                 | 4                    | 1                   | 5                    | 5                          | F1                         | Tops died back after heavy rain. |
| Nun9005       | Nunhems     | mid        | red    | 10.0        | 8.0        | oblate | 8                 | 4                    | 3                   | 7                    | 6                          | OP                         |                                  |
| Pulsar        | Nunhems     | mid        | yellow | 9.0         | 9.5        | round  | 4                 | 6                    | 3                   | 7                    | 5                          | OP                         |                                  |
| Red Baron     | Nichols     | late       | red    | 8.0         | 8.0        | round  | 2                 | 7                    | 3                   | 3                    | 6                          | F1                         | Tops died back after heavy rain. |
| Red Bull      | Johnny's    | late       | red    | 9.0         | 12.0       | flat   | 1                 | 4                    | 3                   | 7                    | 4                          | F1                         |                                  |
| Red Marble    | Johnny's    | mid        | red    | 5.0         | 9.0        | oblong | 1                 | 1                    | 7                   | 5                    | 1                          | F1                         | Cipollini type.                  |
| Ruby Ring     | Johnny's    | mid        | red    | 9.5         | 6.5        | oblong | 7                 | 6                    | 5                   | 3                    | 5                          | F1                         | Tops died back after heavy rain. |
| Sierra Blanca | Johnny's    | early      | white  | 6.0         | 7.0        | oblong | 9                 | 1                    | 7                   | 5                    | 2                          | F1                         |                                  |
| Stansa        | Bejo        | early      | yellow | 8.0         | 8.5        | round  | 4                 | 3                    | 7                   | 1                    | 4                          | F1                         |                                  |
| Sterling      | Seminis     | late       | white  | 9.0         | 9.0        | round  | 4                 | 1                    | 8                   | 7                    | 1                          | F1                         | Glossy; 10% bolting.             |
| Vision        | Seminis     | late       | yellow | 10.0        | 9.5        | oblong | 5                 | 2                    | 6                   | 7                    | 3                          | F1                         | Glossy.                          |
| WallaWalla    | Nichols     | late       | yellow | 9.0         | 10.0       | round  | 7                 | 1                    | 5                   | 7                    | 1                          | OP                         | Glossy.                          |
| White Wing    | Nichols     | early      | white  | 10.0        | 7.5        | oblong | 8                 | 1                    | 5                   | 5                    | 1                          | F1                         | Tops died back after heavy rain. |

<sup>1</sup>Direct seeded May 7; storage notes taken January 18.

<sup>2</sup>Scores based on a 1–9 scale, 9 = very small, neat necks. Onions with small necks are, in general, better storage onions.

<sup>3</sup>Scores based on a 1–9 scale, 9 = best.

<sup>4</sup>Scores based on a 1–9 scale, 9 = little damage.

<sup>5</sup>Scores based on a 1–9 scale, 9 = clean.

<sup>6</sup>Scores based on a 1–9 scale, 9 = no sprouting and bulbs showing no signs of softening or rot.

<sup>7</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

<sup>8</sup>Cipollini type onions have small, very flat bulbs that are often used for braiding.

# Parsnip<sup>1</sup>

| Variety                | Source      | Top Vigor <sup>2</sup> | Aster Yellows <sup>3</sup> | Cracking/ Defects <sup>4</sup> | Root Length (cm) | Root Width (cm) | Root Color | Color Uniformity <sup>4</sup> | Crown Shape | Flavor <sup>4</sup> | Overall Score <sup>4</sup> | Cultivar Type <sup>5</sup> |
|------------------------|-------------|------------------------|----------------------------|--------------------------------|------------------|-----------------|------------|-------------------------------|-------------|---------------------|----------------------------|----------------------------|
| All-American           | Nichols     | 9                      | 8                          | 9                              | 46.0             | 3.2             | white      | 6                             | convex      | 3                   | 6                          | OP                         |
| Cobham Improved Marrow | Territorial | 6                      | 5                          | 9                              | 33.0             | 5.4             | white      | 5                             | flat        | 8                   | 8                          | OP                         |
| Javelin                | Territorial | 7                      | 6                          | 9                              | 33.0             | 5.0             | white      | 5                             | flat        | 6                   | 7                          | F1                         |

<sup>1</sup>Direct seeded June 16.

<sup>2</sup>Top refers to foliage. Scores based on a 1–9 scale, 9 = most vigorous growth.

<sup>3</sup>Aster yellows disease symptoms: New leaves in the plant's heart are yellow, reduced in size, deformed, and dense in growth. Older leaves may have a purple or reddish color. Carrot roots frequently are deformed and develop dense tufts of hairlike rootlets. Scores based on a 1–9 scale, 9 = no aster yellows visible.

<sup>4</sup>Scores based on a 1–9 scale, 9 = least defects, most uniform, or best.

<sup>5</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Pepper<sup>1</sup>

| Variety          | Source          | Type    | Maturity  | Immature Color | Mature Color     | Fruit Length (cm) | Fruit Width (cm) | Plant Height (cm) | Plant Width (cm) | Flesh Thickness (mm) | Sunscald <sup>2</sup> | Yield <sup>3</sup> | Overall Score <sup>3</sup> | Cultivar Type <sup>4</sup> | Notes   |
|------------------|-----------------|---------|-----------|----------------|------------------|-------------------|------------------|-------------------|------------------|----------------------|-----------------------|--------------------|----------------------------|----------------------------|---|
| Aji Amarillo     | Seeds of Change | aji     | mid       | wax            | orange           | 7.0               | 1.9              | 73.7              | 83.8             | 1.6                  | 9                     | 5                  | 8                          | OP                         |   |
| Criolla Sella    | Seeds of Change | aji     | early     | light green    | orange-red       | 8.9               | 1.1              | 48.3              | 81.3             | 1.6                  | 9                     | 7                  | 8                          | OP                         | Nice appearance.                                      |
| Anaheim          | Seeds of Change | Anaheim | mid-late  | green          | red              | 16.8              | 4.1              | 61.0              | 66.0             | 3.2                  | 9                     | 5                  | 7                          | OP                         |   |
| Astor            | Territorial     | Anaheim | very late | green          | red              | 23.3              | 5.6              | 68.6              | 63.5             | 3.2                  | 9                     | 5                  | 7                          | F1                         |   |
| Sonora Anaheim   | Seminis         | Anaheim | late      | green          | red              | 20.6              | 3.2              | 50.8              | 58.4             | 3.2                  | 9                     | 7                  | 7                          | F1                         |   |
| Aristotle        | Seminis         | bell    | late      | green          | red              | 10.2              | 8.9              | 38.1              | 55.9             | 4.8                  | 5                     | 7                  | 5                          | F1                         | Small plants with heavy load and not much leaf cover. |
| Baron            | Seminis         | bell    | late      | green          | red              | 11.4              | 6.4              | 40.6              | 61.0             | 7.9                  | 9                     | 7                  | 5                          | F1                         | Lodging due to fruit weight.                          |
| Brownie          | Rupp            | bell    | mid       | green          | red to brown     | 8.6               | 10.2             | 35.6              | 43.2             | 4.8                  | 7                     | 7                  | 4                          | F1                         |   |
| Early Sunstation | Rupp            | bell    | mid       | green          | yellow           | 9.5               | 10.2             | 38.1              | 53.3             | 4.8                  | 7                     | 7                  | 4                          | F1                         |   |
| Flavorburst      | Johnny's        | bell    | mid       | green          | orange           | 12.7              | 8.9              | 35.6              | 55.9             | 7.9                  | 7                     | 5                  | 6                          | F1                         |   |
| Hunter           | Rupp            | bell    | late      | green          | red              | 11.4              | 10.2             | 44.5              | 61.0             | 9.5                  | 5                     | 5                  | 6                          | F1                         |   |
| Maximalia        | Seminis         | bell    | mid       | green          | orange           | 10.2              | 9.2              | 45.7              | 48.3             | 4.8                  | 9                     | 7                  | 5                          | F1                         |   |
| Prince           | Harris Moran    | bell    | very late | green          | orange to yellow | 16.5              | 10.2             | 58.4              | 68.6             | 6.4                  | 7                     | 7                  | 7                          | F1                         |   |
| Purple Beauty    | Territorial     | bell    | mid       | green          | purple           | 8.3               | 7.0              | 33.0              | 55.9             | 3.2                  | 9                     | 7                  | 4                          | OP                         |   |
| Snapper          | Johnny's        | bell    | mid       | green          | red              | 10.5              | 6.5              | 40.6              | 48.3             | 6.4                  | 9                     | 7                  | 7                          | F1                         |   |
| Staddon Select   | Territorial     | bell    | very late | green          | red              | 10.2              | 6.4              | 45.7              | 50.8             | 7.9                  | 7                     | 5                  | 5                          | F1                         |   |
| Taurus           | Syngenta        | bell    | late      | green          | red              | 12.7              | 10.2             | 25.4              | 45.7             | 7.9                  | 7                     | 4                  | 4                          | F1                         |   |
| Valencia         | Rupp            | bell    | mid       | green          | orange           | 10.2              | 8.9              | 48.3              | 55.9             | 6.4                  | 7                     | 7                  | 6                          | F1                         |   |
| Whitney          | Territorial     | bell    | very late | wax to orange  | red              | 11.4              | 6.4              | 35.6              | 68.6             | 9.5                  | 7                     | 6                  | 7                          | OP                         |   |

<sup>1</sup>Transplanted May 28.

<sup>2</sup>Sunscald of fruit. Scores based on a 1–9 scale, 1 = least sunscald, 9 = severe.

<sup>3</sup>Scores based on a 1–9 scale, 9 = least severe.

<sup>4</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Pepper<sup>1</sup>

| Variety            | Source          | Type           | Maturity  | Immature Color | Mature Color | Fruit Length (cm) | Fruit Width (cm) | Plant Height (cm) | Plant Width (cm) | Flesh Thickness (mm) | Sunscald <sup>2</sup> | Yield <sup>3</sup> | Overall Score <sup>3</sup> | Cultivar Type <sup>4</sup> | Notes                    |
|--------------------|-----------------|----------------|-----------|----------------|--------------|-------------------|------------------|-------------------|------------------|----------------------|-----------------------|--------------------|----------------------------|----------------------------|--------------------------|
| Wonder Bell        | Territorial     | bell           | early     | green          | red          | 10.8              | 9.5              | 38.1              | 61.0             | 4.8                  | 7                     | 7                  | 6                          | F1                         |                          |
| Aci Sivri          | Nichols         | cayenne        | early-mid | light green    | red          | 23.5              | 1.9              | 61.0              | 55.9             | 1.6                  | 9                     | 7                  | 7                          | OP                         |                          |
| Golden Wagon Wheel | Territorial     | cheese         | late      | green          | yellow       | 4.0               | 8.4              | 45.7              | 63.5             | 6.4                  | 9                     | 5                  | 6                          | F1                         |                          |
| Busillis           | Johnny          | chile          | late      | green          | red          | 19.1              | 29.7             | 53.3              | 53.3             | 3.2                  | 9                     | 7                  | 7                          | F1                         |                          |
| Espanola           | OSU             | chile          | mid       | green          | red          | 15.2              | 4.1              | 43.2              | 63.5             | 3.2                  | 9                     | 7                  | 7                          | OP                         |                          |
| Mesilla            | Seminis         | chile          | mid       | green          | red          | 26.0              | 3.2              | 58.4              | 53.3             | 3.2                  | 9                     | 6                  | 7                          | F1                         |                          |
| Relleno            | Seeds of Change | chile          | early-mid | green          | red          | 18.4              | 5.1              | 48.3              | 61.0             | 3.2                  | 7                     | 4                  | 6                          | OP                         |                          |
| Ring-O-Fire        | Seeds of Change | chile          | mid       | green          | red          | 11.6              | 1.4              | 61.0              | 58.4             | 1.6                  | 9                     | 5                  | 6                          | OP                         |                          |
| Cubanelle          | Harris Moran    | cubanelle      | mid       | lite green     | red          | 15.9              | 5.6              | 53.3              | 58.4             | 3.2                  | 8                     | 7                  | 6                          | OP                         |                          |
| Habanero           | Territorial     | habanero       | very late | green          | red          | 3.2               | 2.5              | 33.0              | 45.7             | 1.6                  | 9                     | 1                  | 3                          | OP                         | Very few fruit produced. |
| Big Bomb           | Seminis         | hot cherry     | mid       | green          | red          | 5.7               | 5.6              | 45.7              | 68.6             | 7.9                  | 9                     | 7                  | 7                          | F1                         |                          |
| Cheese             | OSU             | Italian cheese | mid       | green          | red          | 5.4               | 9.2              | 40.6              | 50.8             | 4.8                  | 9                     | 5                  | 8                          | OP                         |                          |
| Atris              | High Mowing     | Italian sweet  | early-mid | green          | red          | 21.9              | 4.8              | 48.3              | 53.3             | 4.8                  | 9                     | 5                  | 6                          | F1                         |                          |
| Italian Sweet      | Territorial     | Italian sweet  | mid       | green          | red          | 15.2              | 5.7              | 38.1              | 53.3             | 3.2                  | 9                     | 7                  | 7                          | OP                         | Some lodged plants.      |
| Thor               | Territorial     | Italian sweet  | very late | green          | red          | 26.7              | 7.3              | 58.4              | 55.9             | 4.8                  | 9                     | 7                  | 6                          | F1                         | Brittle plants.          |
| Ballpark           | Seminis         | jalapeño       | late      | green          | red          | 12.7              | 2.5              | 58.4              | 50.8             | 6.4                  | 9                     | 7                  | 6                          | F1                         | Heavily lodged.          |
| Chichimeca         | Seminis         | jalapeño       | mid       | green          | red          | 10.8              | 4.8              | 61.0              | 71.1             | 4.8                  | 9                     | 7                  | 8                          | F1                         |                          |
| Felicity           | Territorial     | jalapeño       | late      | green          | red          | 10.2              | 3.2              | 61.0              | 53.3             | 6.4                  | 9                     | 7                  | 6                          | F1                         | Heavily lodged.          |
| Jalafuego          | Johnny's        | jalapeño       | mid       | green          | red          | 10.2              | 2.9              | 58.4              | 73.7             | 3.2                  | 3                     | 7                  |                            | F1                         |                          |
| Tajin              | Seminis         | jalapeño       | mid       | green          | red          | 12.1              | 3.2              | 53.3              | 53.3             | 4.8                  | 9                     | 7                  | 7                          | F1                         |                          |

<sup>1</sup>Transplanted May 28.

<sup>2</sup>Sunscald of fruit. Scores based on a 1–9 scale, 1 = least sunscald, 9 = severe.

<sup>3</sup>Scores based on a 1–9 scale, 9 = least severe.

<sup>4</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Pepper<sup>1</sup>

| Variety       | Source              | Type           | Maturity  | Immature Color | Mature Color | Fruit Length (cm) | Fruit Width (cm) | Plant Height (cm) | Plant Width (cm) | Flesh Thickness (mm) | Sunscald <sup>2</sup> | Yield <sup>3</sup> | Overall Score <sup>3</sup> | Cultivar Type <sup>4</sup> | Notes                    |
|---------------|---------------------|----------------|-----------|----------------|--------------|-------------------|------------------|-------------------|------------------|----------------------|-----------------------|--------------------|----------------------------|----------------------------|--------------------------|
| Torreon       | Seminis             | jalapeño       | late      | green          | red          | 8.9               | 3.0              | 43.2              | 48.3             | 4.8                  | 9                     | 7                  | 6                          | F1                         |                          |
| Tula          | Seminis             | jalapeño       | very late | green          | red          | 12.4              | 4.0              | 45.7              | 45.7             | 4.8                  | 9                     | 7                  | 6                          | F1                         |                          |
| Marbles       | OSU                 | ornamental     | mid       | wax purple     | orange-red   | 1.6               | 1.6              | 30.5              | 33.0             | 1.6                  | 9                     | 5                  | 8                          | OP                         |                          |
| Prarie Fire   | D. Palmer           | ornamental     | late      | wax            | red          | 2.4               | 1.0              | 17.8              | 38.1             | 1.6                  | 9                     | 3                  | 6                          | OP                         |                          |
| Riot          | OSU                 | ornamental     | mid       | wax            | red          | 9.8               | 0.5              | 27.9              | 22.9             | 1.6                  | 9                     | 7                  | 8                          | OP                         |                          |
| Alma Paprika  | Territorial         | paprika        | late      | wax            | red          | 5.1               | 5.7              | 40.6              | 50.8             | 9.5                  | 9                     | 3                  | 5                          | OP                         | Nice fruit shape.        |
| Pasilla Bajio | Botanical Interests | pasilla        | late      | dark green     | red-brown    | 19.7              | 4.0              | 48.3              | 53.3             | 1.6                  | 9                     | 7                  | 6                          | OP                         |                          |
| Topepo Rosso  | Nichols             | pimento        | mid       | green          | red          | 5.1               | 9.5              | 35.6              | 55.9             | 6.4                  | 8                     | 7                  | 6                          | F1                         |                          |
| Ancho         | Botanical Interests | poblano        | very late | dark green     | red          | 19.1              | 9.5              | 61.0              | 61.0             | 3.2                  | 9                     | 5                  | 6                          | OP                         |                          |
| Red Mushroom  | Territorial         | specialty      | late      | green          | red          | 5.1               | 5.2              | 58.4              | 63.5             | 1.6                  | 9                     | 5                  | 4                          | OP                         |                          |
| Pizza         | OSU                 | sweet jalapeño | very late | green          | red          | 10.8              | 4.4              | 41.9              | 53.3             | 7.9                  | 9                     | 7                  | 6                          | OP                         |                          |
| Mariachi      | Seminis             | sweet wax      | mid       | wax            | red          | 10.2              | 5.1              | 45.7              | 57.2             | 4.8                  | 9                     | 7                  | 9                          | F1                         | Appealing as ornamental. |
| Sweet Spot    | Seminis             | sweet wax      | mid       | green          | orange-red   | 21.9              | 5.4              | 55.9              | 78.7             | 4.8                  | 9                     | 7                  | 7                          | F1                         |                          |

<sup>1</sup>Transplanted May 28.

<sup>2</sup>Sunscald of fruit. Scores based on a 1–9 scale, 1 = least sunscald, 9 = severe.

<sup>3</sup>Scores based on a 1–9 scale, 9 = least severe.

<sup>4</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Pumpkin and Ornamental Gourd<sup>1</sup>

| Variety               | Source   | Species                 | Type           | Fruit Height (cm) | Fruit Width (cm) | Skin Color          | Flesh Color          | Yield <sup>2</sup> | Plant Vigor <sup>2</sup> | Habit     | Overall Score <sup>2</sup> | Cultivar Type <sup>3</sup> | Notes <sup>4</sup>                  |
|-----------------------|----------|-------------------------|----------------|-------------------|------------------|---------------------|----------------------|--------------------|--------------------------|-----------|----------------------------|----------------------------|-------------------------------------|
| Cinderella            | Nichols  | <i>Cucurbita maxima</i> | cheese pumpkin | 13.0              | 34.0             | bright orange       | pale yellow          | 5                  | 7                        | vine      | 5                          | OP                         |                                     |
| Dill's Atlantic Giant | Hollar   | <i>Cucurbita maxima</i> | giant pumpkin  | 60.0              | 39.0             | pale orange         | pale pink            | 3                  | 9                        | vine      | 5                          | F1                         |                                     |
| Full Moon             | Hollar   | <i>Cucurbita maxima</i> | giant pumpkin  | 32.0              | 33.0             | cream               | salmon pink          | 3                  | 8                        | vine      | 3                          | F1                         |                                     |
| Monster Smash         | Rupp     | <i>Cucurbita maxima</i> | giant pumpkin  | 50.0              | 43.0             | bright orange       | orange               | 5                  | 7                        | bush      | 7                          | F1                         | Very susceptible to Sclerotinia.    |
| Jack Be Little        | Hollar   | <i>Cucurbita pepo</i>   | gourd          | 5.5               | 10.5             | yellow-orange       | -                    | 7                  | 9                        | vine      | 5                          | OP                         | Oblate, not jack-o-lantern shape.   |
| Applachian            | Seminis  | <i>Cucurbita pepo</i>   | jack-o-lantern | 29.0              | 28.0             | bright shiny orange | pale orange          | 5                  | 5                        | semi-vine | 7                          | F1                         |                                     |
| Camaro                | Hollar   | <i>Cucurbita pepo</i>   | jack-o-lantern | 25.0              | 24.0             | bright orange       | pale yellow          | 7                  | 5                        | bush      | 8                          | F1                         | Nicely colored; fine bumps on skin. |
| Champion              | Johnny's | <i>Cucurbita pepo</i>   | jack-o-lantern | 36.0              | 32.0             | bright orange       | pale yellow          | 5                  | 5                        | semi-vine | 7                          | F1                         |                                     |
| First Prize           | Nichols  | <i>Cucurbita maxima</i> | jack-o-lantern | 31.0              | 46.0             | pale orange         | bright yellow        | 3                  | 8                        | vine      | 5                          | F1                         |                                     |
| Howden                | Holler   | <i>Cucurbita pepo</i>   | jack-o-lantern | 30.0              | 28.0             | bright orange       | pale yellow          | 3                  | 5                        | vine      | 3                          | OP                         |                                     |
| Mustang               | Hollar   | <i>Cucurbita pepo</i>   | jack-o-lantern | 33.0              | 32.0             | brown-orange        | pale yellow          | 5                  | 7                        | semi-vine | 8                          | F1                         |                                     |
| New Racer Plus        | Johnny's | <i>Cucurbita pepo</i>   | jack-o-lantern | 20.5              | 27.0             | pale orange         | pale yellow          | 5                  | 3                        | semi-vine | 7                          | F1                         |                                     |
| Phantom               | Seminis  | <i>Cucurbita pepo</i>   | jack-o-lantern | 26.5              | 29.0             | bright orange       | orange               | 5                  | 5                        | vine      | 6                          | F1                         |                                     |
| Spooktacular          | Seminis  | <i>Cucurbita pepo</i>   | jack-o-lantern | 12.0              | 16.5             | orange              | pale yellow          | 7                  | 5                        | vine      | 7                          | F1                         |                                     |
| Jamboree              | Seminis  | <i>Cucurbita pepo</i>   | Jarradhale     | 13.0              | 24.0             | blue-gray           | bright yellow-orange | 7                  | 8                        | vine      | 7                          | F1                         | Jarradhale is a subtropical type.   |

<sup>1</sup>Direct seeded June 8 in 60-inch rows.

<sup>2</sup>Scores based on a 1–9 scale, 9 = best.

<sup>3</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

<sup>4</sup>Sclerotinia is a disease caused by a fungal infection with a very wide host range.



## Pumpkin and Ornamental Gourd<sup>1</sup>

| Variety        | Source        | Species                 | Type                     | Fruit Height (cm) | Fruit Width (cm) | Skin Color   | Flesh Color   | Yield <sup>2</sup> | Plant Vigor <sup>2</sup> | Habit | Overall Score <sup>2</sup> | Cultivar Type <sup>3</sup> | Notes <sup>4</sup>                   |
|----------------|---------------|-------------------------|--------------------------|-------------------|------------------|--|---------------|--------------------|--------------------------|-------|----------------------------|----------------------------|--------------------------------------|
| Small Sugar    | Nichols       | <i>Cucurbita pepo</i>   | pie                      | 13.0              | 18.5             | bright orange  | bright orange | 7                  | 4                        | vine  | 7                          | OP                         | Large seeds.                         |
| Little October | Rupp          | <i>Cucurbita pepo</i>   | small ornamental         | 7.5               | 10.5             | bright orange  | light orange  | 7                  | 3                        | bush  | 7                          | OP                         | Nice miniature jack-o-lantern shape. |
| Kakai          | High Mowing   | <i>Cucurbita pepo</i>   | Styrian oil seed pumpkin | 19.0              | 20.0             | bright orange with dark green stripes                                | pale yellow   | 7                  | 7                        | vine  | 8                          | OP                         | Hard rind; naked seed.               |
| Aladdin        | Henry Field's | <i>Cucurbita maxima</i> | turban                   | 11.0              | 15.5             | pale to bright orange, mottled cap, cream ovary                      | -             | 5                  | 5                        | vine  | 5                          | OP                         |                                      |
| Turks Turban   | Hollar        | <i>Cucurbita maxima</i> | turban                   | 13.0              | 23.5             | orange mottled cap; tri-color green, orange, and white mottled ovary | yellow        | 5                  | 7                        | vine  | 7                          | OP                         |                                      |

<sup>1</sup>Direct seeded June 8 in 60-inch rows.

<sup>2</sup>Scores based on a 1–9 scale, 9 = best.

<sup>3</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

<sup>4</sup>Sclerotinia is a disease caused by a fungal infection with a very wide host range.

## Radish, Spring<sup>1</sup>

| Variety           | Source       | Root Length (cm) | Root Width (cm) | Skin Color            | Uniformity <sup>2</sup> | Vigor <sup>2</sup> | Overall Score <sup>2</sup> | Cultivar Type <sup>3</sup> |
|-------------------|--------------|------------------|-----------------|-----------------------|-------------------------|--------------------|----------------------------|----------------------------|
| Amethyst          | Territorial  | 6.9              | 3.6             | red purple            | 6                       | 7                  | 7                          | F1                         |
| Cherriette Radish | Johnny's     | 6.1              | 4.0             | red                   | 8                       | 8                  | 8                          | F1                         |
| Cherry Bell       | Harris Moran | 5.0              | 3.2             | red                   | 7                       | 6                  | 7                          | OP                         |
| Crunchy Royal     | Sakata       | 4.3              | 3.5             | red                   | 9                       | 8                  | 9                          | F1                         |
| D'avignon         | Johnny's     | 10.7             | 2.3             | red with white bottom | 9                       | 7                  | 8                          | OP                         |
| French Breakfast  | Turtle Tree  | 6.7              | 2.9             | red                   | 9                       | 8                  | 9                          | OP                         |
| Ping Pong         | Johnny's     | 4.5              | 4.5             | white                 | 7                       | 6                  | 6                          | F1                         |
| Pink Beauty       | Johnny's     | 5.6              | 3.6             | light red             | 7                       | 8                  | 8                          | OP                         |
| Plum Purple       | Fedco        | 4.6              | 3.7             | purple                | 7                       | 9                  | 7                          | OP                         |
| Purple Plum       | Turtle Tree  | 5.1              | 3.5             | magenta               | 6                       | 8                  | 6                          | OP                         |
| Red Skoaring      | Turtle Tree  | 5.0              | 2.3             | red                   | 7                       | 8                  | 7                          | OP                         |
| Rover             | Johnny's     | 4.5              | 4.3             | red                   | 9                       | 9                  | 9                          | F1                         |
| Sora              | Turtle Tree  | 5.3              | 3.1             | red                   | 6                       | 7                  | 7                          | OP                         |
| White Beauty      | High Mowing  | 3.3              | 4.6             | white                 | 6                       | 5                  | 6                          | OP                         |
| Zlata             | Territorial  | 5.8              | 3.6             | white                 | 7                       | 2                  | 5                          | OP                         |

<sup>1</sup>Direct seeded September 2.

<sup>2</sup>Scores based on a 1–9 scale, 9 = best, most uniform, or most vigorous.

<sup>3</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Spinach<sup>1</sup>

| Variety                  | Source      | Leaf Type  | Leaf Color           | Petiole Color | Vigor <sup>2</sup> | Overall Score <sup>2</sup> | Cultivar Type <sup>3</sup> | Notes   |
|--------------------------|-------------|------------|----------------------|---------------|--------------------|----------------------------|----------------------------|---|
| Bloomsdale Long Standing | Nichols     | savoy      | dark green           | green         | 2                  | 3                          | OP                         |   |
| Greyhound                | Seminis     | semi-savoy | green                | green         | 7                  | 7                          | F1                         |   |
| Lombardia                | Johnny's    | semi-savoy | green                | green         | 8                  | 6                          | F1                         |   |
| Regal                    | Territorial | semi-savoy | medium green         | green         | 6                  | 6                          | F1                         |   |
| Spargo                   | Johnny's    | semi-savoy | dark green           | green         | 7                  | 8                          | F1                         |   |
| 7-Green                  | Johnny's    | smooth     | medium green         | green         | 2                  | 4                          | F1                         | 50% of the plants in the plot were chlorotic. |
| Bordeaux                 | Johnny's    | smooth     | green                | red           | 9                  | 8                          | F1                         | Oak-leaf shape.                               |
| Butterflay               | Turtle Tree | smooth     | medium dark green    | green         | 9                  | 9                          | OP                         |   |
| Corvair                  | High Mowing | smooth     | medium dark green    | green         | 8                  | 7                          | F1                         |   |
| Emu                      | Johnny's    | smooth     | dark green           | green         | 7                  | 7                          | F1                         |   |
| Gamma                    | Turtle Tree | smooth     | medium green         | green         | 5                  | 6                          | OP                         |   |
| Hellcat                  | Seminis     | smooth     | dark green           | green         | 6                  | 8                          | F1                         |   |
| Matador                  | Turtle Tree | smooth     | medium dark green    | green         | 8                  | 8                          | OP                         |   |
| Red Cardinal             | Johnny's    | smooth     | dark green, red vein | red           | 7                  | 6                          | F1                         | Spade-shaped leaf.                            |
| Regatta                  | Territorial | smooth     | green                | green         | 7                  | 7                          | F1                         |   |
| Steadfast                | Turtle Tree | smooth     | dark green           | green         | 8                  | 8                          | OP                         |   |
| Tarpy                    | High Mowing | smooth     | medium green         | green         | 9                  | 9                          | F1                         |   |

<sup>1</sup>Direct seeded September 2.

<sup>2</sup>Scores based on a 1–9 scale, 9 = most vigorous or best.

<sup>3</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Squash, Summer<sup>1</sup>

| Variety             | Source          | Type               | Plant Height (cm) | Plant Width (cm) | Plant Habit <sup>2</sup> | Fruit curve <sup>3</sup> | Spines <sup>4</sup> | Fruit Color                       | Fruit Length (cm) | Fruit Width (cm) | Rind Thickness (mm) | Fruit Uniformity <sup>4</sup> | Fruit Smoothness <sup>4</sup> | Pollination <sup>5</sup> | Yield <sup>4</sup> | Overall Score <sup>4</sup> | Cultivar Type <sup>6</sup> | Notes  |
|---------------------|-----------------|--------------------|-------------------|------------------|--------------------------|--------------------------|---------------------|-----------------------------------|-------------------|------------------|---------------------|-------------------------------|-------------------------------|--------------------------|--------------------|----------------------------|----------------------------|--|
| Anton               | Johnny's        | zucchini           | 50.0              | 51.0             | 1                        | 2                        | 2                   | dark green                        | 15.1              | 3.3              | 1.1                 | 4                             | 1                             | 5                        | 4                  | 6                          | F1                         | Double fruits produced.                          |
| Golden Arrow        | Seminis         | zucchini           | 67.0              | 62.0             | 8                        | 2                        | 1                   | bright yellow                     | 14.5              | 2.6              | 1.7                 | 7                             | 2                             | 9                        | 5                  | 7.5                        | F1                         |  |
| Golden Arrow        | High Mowing     | zucchini           | 57.0              | 59.0             | 4                        | 2                        | 1                   | bright yellow                     | 16.7              | 3.0              | 2.4                 | 6                             | 1                             | 4                        | 7                  | 7.5                        | F1                         | High level of incomplete pollination.            |
| Meteor              | Johnny's        | zucchini           | 40.0              | 52.0             | 2                        | 2                        | 1                   | bright yellow                     | 16.5              | 3.5              | 3.0                 | 7                             | 1                             | 6                        | 8                  | 8                          | F1                         | Poor pollination.                                |
| Noche               | Syngenta        | zucchini           | 57.0              | 118.0            | 2                        | 2                        | 1                   | dark green                        | 20.0              | 4.0              | 1.3                 | 7                             | 1                             | 9                        | 3                  | 6                          | F1                         |  |
| Plato               | Johnny's        | zucchini           | 53.0              | 52.0             | 2                        | 2                        | 1                   | very dark green                   | 14.5              | 3.5              | 1.1                 | 8                             | 1                             | 8                        | 5                  | 7.5                        | F1                         |  |
| Radiant             | Seminis         | zucchini           | 62.0              | 55.0             | 3                        | 1                        | 3                   | green                             | 19.0              | 4.4              | 0.9                 | 7                             | 1                             | 4                        | 9                  | 6                          | F1                         | Displayed high degree of incomplete pollination. |
| Soleil              | Johnny's        | zucchini           | 53.0              | 54.0             | 3                        | 1.5                      | 2                   | bright yellow                     | 15.5              | 3.8              | 3.0                 | 8                             | 1                             | 7                        | 5                  | 7                          | F1                         | A single green fruit off-type.                   |
| Tromboncino         | Nichols         | tromboncino        | 48.0              | 220.0            | 9                        | 5                        | 3                   | light green with white stripes    | 25.5              | 3.5              | 0.2                 | 8                             | 1                             | 9                        | 6                  | 5                          | OP                         |  |
| Latino              | Territorial     | specialty zucchini | 69.0              | 59.0             | 4                        | 4                        | 4                   | light green stripes on dark green | 19.7              | 3.1              | 1.3                 | 6                             | 8                             | 8                        | 8                  | 8                          | F1                         |  |
| Piccolo             | Territorial     | specialty          | 68.0              | 61.0             | 5                        | 1                        | 1                   | light green with pale stripes     | 10.3              | 7.0              | 2.5                 | 5                             | 1                             | 8                        | 6                  | 5                          | F1                         | Some fruit forming inside the blossom.           |
| Cue Ball            | Hollar          | specialty          | 71.0              | 62.0             | 8                        | round                    | 3                   | light green                       | 8.5               | 10.0             | 1.8                 | 7                             | 2                             | 9                        | 6                  | 4                          | F1                         |  |
| One Ball            | Hollar          | specialty          | 69.0              | 57.5             | 4                        | round                    | 3                   | bright yellow                     | 8.5               | 11.1             | 4.0                 | 7                             | 2                             | 9                        | 6                  | 5                          | F1                         | Difficult to cut the fruit.                      |
| Bennings Green Tint | Seeds of Change | scallop            | 88.0              | 65.0             | 9                        | lobed                    | 7                   | light green                       | 10.0              | 13.0             | 3.0                 | 8                             | 2                             | 9                        | 9                  | 7                          | OP                         |  |
| Starship            | Seminis         | scallop            | 75.0              | 59.0             | 8                        | round                    | 7                   | green                             | 4.5               | 8.5              | 1.0                 | 8                             | lobed                         | 9                        | 4                  | 9                          | F1                         |  |

<sup>1</sup>Direct seeded June 29.

<sup>2</sup>Scores based on a 1–9 scale, 9 = most open. An open plant habit makes harvesting easier.

<sup>3</sup>Scores based on a 1–9 scale, 9 = very curved (crookneck type).

<sup>4</sup>Scores based on a 1–9 scale, 9 = least spines on petioles, most uniform, smoothest, highest yield, or best overall.

<sup>5</sup>Scores based on a 1–9 scale, 9 = no fruit displaying effects of incomplete pollination.

<sup>6</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Squash, Summer<sup>1</sup>

| Variety       | Source      | Type          | Plant Height (cm) | Plant Width (cm) | Plant Habit <sup>2</sup> | Fruit curve <sup>3</sup> | Spines <sup>4</sup> | Fruit Color            | Fruit Length (cm) | Fruit Width (cm) | Rind Thickness (mm) | Fruit Uniformity <sup>4</sup> | Fruit Smoothness <sup>4</sup> | Pollination <sup>5</sup> | Yield <sup>4</sup> | Overall Score <sup>4</sup> | Cultivar Type <sup>6</sup> | Notes                   |
|---------------|-------------|---------------|-------------------|------------------|--------------------------|--------------------------|---------------------|------------------------|-------------------|------------------|---------------------|-------------------------------|-------------------------------|--------------------------|--------------------|----------------------------|----------------------------|-------------------------|
| Sunny Delight | Seminis     | scallop       | 66.0              | 62.0             | 8                        | round                    | 4                   | bright yellow          | 4.5               | 7.9              | 2.2                 | 9                             | lobed                         | 9                        | 9                  | 9                          | F1                         |                         |
| Segev         | High Mowing | Mediterranean | 65.0              | 65.0             | 5                        | 2                        | 3                   | pale green             | 14.7              | 5.6              | 1.5                 | 9                             | 1                             | 9                        | 5                  | 8                          | F1                         |                         |
| Enterprise    | Syngenta    | straight neck | 51.0              | 118.0            | 4                        | 3                        | 5                   | pale yellow            | 16.0              | 3.8              | 1.0                 | 6                             | 7                             | 9                        | 6                  | 8                          | F1                         | Double fruit formation. |
| Prelude II    | Seminis     | straight neck | 72.0              | 53.0             | 6                        | 4                        | 4                   | pale yellow-green tint | 17.3              | 4.5              | 1.0                 | 6                             | 7                             | 9                        | 6                  | 5                          | F1                         | Double fruit formation. |
| Slick Pick    | Johnny's    | straight neck | 73.0              | 58.0             | 8                        | 4                        | 1                   | pale yellow            | 17.0              | 3.5              | 1.1                 | 6                             | 4                             | 8                        | 8                  | 9                          | F1                         |                         |

<sup>1</sup>Direct seeded June 29.

<sup>2</sup>Scores based on a 1–9 scale, 9 = most open. An open plant habit makes harvesting easier.

<sup>3</sup>Scores based on a 1–9 scale, 9 = very curved (crookneck type).

<sup>4</sup>Scores based on a 1–9 scale, 9 = least spines on petioles, most uniform, smoothest, highest yield, or best overall.

<sup>5</sup>Scores based on a 1–9 scale, 9 = no fruit displaying effects of incomplete pollination.

<sup>6</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Squash, Winter<sup>1</sup>

| Variety           | Source      | Species                   | Type      | Fruit Height (cm) | Fruit Width (cm) | Skin color                                  | Flesh Color          | Yield <sup>2</sup> | Plant Vigor <sup>2</sup> | Habit     | Overall Score <sup>2</sup> | Cultivar Type <sup>3</sup> | Notes   |
|-------------------|-------------|---------------------------|-----------|-------------------|------------------|---|----------------------|--------------------|--------------------------|-----------|----------------------------|----------------------------|---|
| Autumn Delight    | Seminis     | <i>Cucurbita maxima</i>   | acorn     | 16.0              | 13.5             | dark green                                  | salmon pink          | 7                  | 5                        | bush      | 5                          | F1                         | Off-types; possible parents in plot.                |
| Celebration       | Rupp        | <i>Cucurbita pepo</i>     | acorn     | 11.0              | 10.0             | cream with green stripes/orange             | salmon               | 7                  | 5                        | bush      | 6                          | F1                         | Segregating bicolor and mottled pattern.            |
| Harlequin         | Rupp        | <i>Cucurbita pepo</i>     | acorn     | 12.0              | 12.5             | cream with green stripes                    | pale salmon          | 7                  | 5                        | bush      | 7                          | F1                         |   |
| Honey Bear        | Territorial | <i>Cucurbita pepo</i>     | acorn     | 9.5               | 10.5             | dark green with pale yellow around peduncle | salmon               | 5                  | 6                        | bush      | -                          | F1                         | Powdery mildew resistant.                           |
| Jet               | Johnny's    | <i>Cucurbita pepo</i>     | acorn     | 15.0              | 13.0             | dark green                                  | salmon               | 7                  | 5                        | bush      | -                          | F1                         |   |
| Mesa Queen        | Hollar      | <i>Cucurbita pepo</i>     | acorn     | 18.0              | 11.0             | dark green                                  | pale orange          | 5                  | 3                        | semi-vine | 3                          | F1                         |   |
| OSU 19            | OSU         | <i>Cucurbita pepo</i>     | acorn     | 9.5               | 10.5             | pale yellow with green stripe               | pale orange          | 7                  | 5                        | vine      | 8                          | OP                         | High in dry matter.                                 |
| Sweet Lightening  | Rupp        | <i>Cucurbita maxima</i>   | acorn     | 6.5               | 10.5             | cream with orange stripes                   | pale orange          | 5                  | 3                        | semi-vine | 5                          | F1                         |   |
| Sweet Reba        | High Mowing | <i>Cucurbita pepo</i>     | acorn     | 11.0              | 11.0             | dark green                                  | salmon               | 6                  | 3                        | bush      | -                          | OP                         |   |
| Table Star        | Rupp        | <i>Cucurbita pepo</i>     | acorn     | 12.0              | 12.5             | dark green                                  | salmon               | 6                  | 3                        | bush      | -                          | F1                         | Powdery mildew resistant.                           |
| Table Treat       | Rupp        | <i>Cucurbita pepo</i>     | acorn     | 11.5              | 12.5             | cream with dark green mottled stripes       | pale orange          | 3                  | 3                        | bush      | -                          | F1                         | Orange off-type.                                    |
| White Cloud       | Rupp        | <i>Cucurbita pepo</i>     | acorn     | 12.5              | 12.0             | tan   | salmon               | 5                  | 4                        | bush      | -                          | F1                         | Cream colored off-type; powdery mildew susceptible. |
| Banana Pink Jumbo | Hollar      | <i>Cucurbita maxima</i>   | banana    | 60.0              | 16.0             | pink  | bright orange-yellow | 5                  | 8                        | vine      | 5                          | OP                         |   |
| Burgess Buttercup | Hollar      | <i>Cucurbita maxima</i>   | buttercup | 19.5              | 13.0             | dark green                                  | bright yellow        | 7                  | 7                        | vine      | 7                          | OP                         | Block shaped.                                       |
| Betternut 401     | Rupp        | <i>Cucurbita moschata</i> | butternut | 20.5              | 11.0             | tan   | yellow-orange        | 8                  | 5                        | vine      | -                          | F1                         | Vine death.   |
| Canesi            | Seminis     | <i>Cucurbita moschata</i> | butternut | 19.5              | 11.5             | tan   | pale yellow          | 7                  | 7                        | bush      | -                          | F1                         | Nice shape and size; uniform; late maturing.        |

<sup>1</sup>Direct seeded June 8 in 60-inch rows.

<sup>2</sup>Scores based on a 1–9 scale, 9 = highest.

<sup>3</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.



## Squash, Winter<sup>1</sup>

| Variety             | Source      | Species                   | Type          | Fruit Height (cm) | Fruit Width (cm) | Skin color                    | Flesh Color   | Yield <sup>2</sup> | Plant Vigor <sup>2</sup> | Habit | Overall Score <sup>2</sup> | Cultivar Type <sup>3</sup> | Notes                                   |
|---------------------|-------------|---------------------------|---------------|-------------------|------------------|-------------------------------|---------------|--------------------|--------------------------|-------|----------------------------|----------------------------|---|
| Honey Nut Butternut | High Mowing | <i>Cucurbita moschata</i> | butternut     | 12.5              | 9.5              | dark tan with green mottle    | yellow-orange | 6                  | 6                        | bush  | -                          | OP                         | Nice pear shape.                        |
| JWS6858             | Johnny's    | <i>Cucurbita moschata</i> | butternut     | 19.0              | 11.5             | tan                           | yellow-orange | 8                  | 7                        | vine  | -                          | F1                         |   |
| JWS6823             | Johnny's    | <i>Cucurbita moschata</i> | butternut     | 15.5              | 9.0              | tan                           | yellow        | 5                  | 7                        | vine  | -                          | F1                         | Short and blocky.                       |
| Victory             | Hollar      | <i>Cucurbita moschata</i> | butternut     | 29.5              | 10.0             | tan                           | yellow-orange | 7                  | 7                        | bush  | -                          | F1                         | Short blocky types and long-neck types. |
| Waltham             | Hollar      | <i>Cucurbita moschata</i> | butternut     | 25.0              | 13.0             | tan                           | yellow-orange | 5                  | 5                        | bush  | -                          | OP                         |   |
| Bush Delicata       | Rupp        | <i>Cucurbita pepo</i>     | delicata      | 18.5              | 8.0              | cream with green stripes      | pale orange   | 5                  | 5                        | bush  | 5                          | OP                         |   |
| Delicata            | Rupp        | <i>Cucurbita pepo</i>     | delicata      | 18.0              | 7.5              | pale yellow with green stripe | pale salmon   | 7                  | 3                        | vine  | 5                          | OP                         |   |
| Honeyboat           | OSU         | <i>Cucurbita pepo</i>     | delicata      | 19.0              | 7.5              | dark tan with green stripes   | salmon        | 7                  | 6                        | vine  | 7                          | OP                         |   |
| Sugar Loaf          | OSU         | <i>Cucurbita pepo</i>     | delicata      | 11.0              | 8.5              | dark tan with green stripes   | pale orange   | 7                  | 6                        | vine  | 7                          | OP                         |   |
| Sugar Loaf-Hessel   | Nichols     | <i>Cucurbita pepo</i>     | delicata      | 14.0              | 8.5              | tan with green stripes        | salmon        | 7                  | 5                        | vine  | 7                          | OP                         | Thick pericarp; small cavity.           |
| Golden Delicious    | OSU         | <i>Cucurbita maxima</i>   | hubbard       | 26.0              | 25.0             | red-orange                    | bright orange | 5                  | 7                        | vine  | 6                          | OP                         |   |
| Heavenly Hubbard    | Hollar      | <i>Cucurbita maxima</i>   | hubbard       | 47.0              | 32.0             | blue-gray                     | pale yellow   | 7                  | 8                        | vine  | 7                          | F1                         | Hard rind; good winter storage type.    |
| Eclipse             | Rupp        | <i>Cucurbita maxima</i>   | Kabocha       | 11.0              | 17.5             | dark green                    | yellow-orange | 5                  | 5                        | bush  | 8                          | F1                         |   |
| Fairy Hybrid        | Territorial | <i>Cucurbita moschata</i> | kabocha       | 11.0              | 17.5             | dark green                    | yellow-orange | 5                  | 7                        | vine  | 7                          | F1                         |   |
| Space Station       | Rupp        | <i>Cucurbita pepo</i>     | kabocha       | 12.5              | 20.0             | dark green                    | burnt orange  | 4                  | 4                        | vine  | 5                          | F1                         |   |
| Sun Spot            | Rupp        | <i>Cucurbita maxima</i>   | small hubbard | 12.5              | 14.5             | orange-red                    | bright orange | 7                  | 4                        | vine  | 8                          | F1                         | Fine-textured flesh.                    |
| Fictor              | De Bolsler  | <i>Cucurbita maxima</i>   | small hubbard | 16.5              | 12.5             | red-orange                    | yellow-orange | 7                  | 5                        | vine  | 7                          | OP                         |   |

<sup>1</sup>Direct seeded June 8 in 60-inch rows.

<sup>2</sup>Scores based on a 1–9 scale, 9 = highest.

<sup>3</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.

# Tomato<sup>1</sup>

| Variety             | Source                        | Type   | Maturity | Vine Type <sup>2</sup> | Shoulder <sup>3</sup> | Fruit Height (cm) | Fruit Width (cm) | Fruit Color             | Leaf Cover <sup>4</sup> | Sunburn <sup>5</sup> | Yield <sup>6</sup> | Yield Efficiency <sup>6</sup> | Flavor <sup>7</sup> | Overall Score <sup>7</sup> | Cultivar Type <sup>8</sup> | Notes <sup>9</sup>    |
|---------------------|-------------------------------|--------|----------|------------------------|-----------------------|-------------------|------------------|-------------------------|-------------------------|----------------------|--------------------|-------------------------------|---------------------|----------------------------|----------------------------|-----------------------|
| Black Cherry        | Tomato Growers Supply Company | cherry | mid      | I                      | GS                    | 3.1               | 3.4              | brown, orange and green | 9                       | 9                    | 3                  | 2                             | 7                   | 5                          | PL                         | Tough skin; seedy.    |
| Gold Nugget         | OSU                           | cherry | early    | D                      | GS                    | 2.7               | 2.9              | orange-yellow           | 3                       | 2                    | 9                  | 9                             | 7                   | 7                          | PL                         | Mushy texture.        |
| Large German Cherry | OSU                           | cherry | mid      | I                      | GS                    | 3.5               | 4.4              | red                     | 6                       | 1                    | 7                  | 7                             | 6                   | 6                          | PL                         |                       |
| Orange Paruche      | Territorial                   | cherry | mid      | SD                     | UR                    | 2.9               | 3.0              | orange                  | 5                       | 9                    | 8                  | 5                             | 9                   | 9                          | F1                         |                       |
| Oregon Cherry       | OSU                           | cherry | early    | D                      | GS                    | 3.4               | 3.3              | red                     | 3                       | 4                    | 8                  | 8                             | 7                   | 7                          | PL                         | Mushy texture.        |
| Red Alert           | Territorial                   | cherry | early    | D                      | GS                    | 3.9               | 3.6              | red                     | 1                       | 8                    | 8                  | 9                             | 7                   | 5                          | PL                         | Lots of sunburn.      |
| Sapho               | Johnny's                      | cherry | mid      | SD                     | UR                    | 3.8               | 3.9              | red                     | 5                       | 1                    | 7                  | 7                             | 8                   | 7                          | F1                         | Very juicy.           |
| Sungold             | Nichols                       | cherry | mid      | I                      | GS                    | 2.3               | 2.5              | orange                  | 5                       | 9                    | 5                  | 3                             | 8                   | 7                          | F1                         | Vigorous vine growth. |
| Sweet Baby Girl     | Seminis                       | cherry | mid      | I                      | GS                    | 2.9               | 2.9              | red                     | 5                       | 1                    | 6                  | 6                             | 7.5                 | 7                          | F1                         |                       |
| Smarty              | Johnny's                      | grape  | mid      | SD                     | UR                    | 3.7               | 2.5              | red                     | 8                       | 1                    | 8                  | 7                             | 7                   | 8                          | F1                         |                       |
| Sweet Mojo          | Johnny's                      | grape  | early    | I                      | UR                    | 2.8               | 1.9              | red                     | 9                       | 9                    | 7                  | 3                             | 7                   | 7                          | F1                         |                       |
| Bellstar            | Johnny's                      | paste  | mid      | D                      | UR                    | 5.7               | 4.9              | red                     | 3                       | 1                    | 8                  | 9                             | 6                   | 7                          | PL                         |                       |
| Cordova             | Territorial                   | paste  | mid      | D                      | GS                    | 6.7               | 4.6              | red                     | 7                       | 9                    | 8                  | 7                             | 3                   | 6                          | F1                         | Bacterial speck.      |

<sup>1</sup>Transplants set out May 28 in 60-inch rows with 24 inches between plants.

<sup>2</sup>I = indeterminate, D = determinate, SD = semi-determinate.

<sup>3</sup>UR = uniform ripening, GS = green shouldered.

<sup>4</sup>Scores based on a 1–9 scale, 9 = best cover.

<sup>5</sup>Scores based on a 1–9 scale, 9 = best (least sunburn).

<sup>6</sup>Yield is total yield; yield efficiency refers to the ratio of yield to plant size. Scores based on a 1–9 scale, 9 = best (highest ratio).

<sup>7</sup>Scores based on a 1–9 scale, 9 = best.

<sup>8</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. PL = pure line: genetically identical; seed is from self-pollinating crops and will breed true if saved to the next generation.

<sup>9</sup>Bacterial speck is caused by *Pseudomonas syringae* pv. *tomato*. It is a seedborne disease and overwinters in infected plant debris in the field. Symptoms occur on all plants parts; on leaves, spots are dark, round, and lack halos; on fruit, a black stippling will eventually result in small, superficial lesions with distinct margins. Mature fruits are resistant because of high acid content. Sclerotia are the hard, black overwintering structures of the necrotrophic plant pathogen *Sclerotinia sclerotiorum*, or white mold.

# Tomato<sup>1</sup>

| Variety          | Source          | Type         | Maturity | Vine Type <sup>2</sup> | Shoulder <sup>3</sup> | Fruit Height (cm) | Fruit Width (cm) | Fruit Color            | Leaf Cover <sup>4</sup> | Sunburn <sup>5</sup> | Yield <sup>6</sup> | Yield Efficiency <sup>6</sup> | Flavor <sup>7</sup> | Overall Score <sup>7</sup> | Cultivar Type <sup>8</sup> | Notes <sup>9</sup>            |
|------------------|-----------------|--------------|----------|------------------------|-----------------------|-------------------|------------------|------------------------|-------------------------|----------------------|--------------------|-------------------------------|---------------------|----------------------------|----------------------------|-------------------------------|
| Mariana          | Johnny's        | paste        | mid      | D                      | UR                    | 9.4               | 4.9              | red                    | 7                       | 1                    | 7                  | 6                             | 8                   | 7                          | F1                         | Very firm; bacterial speck.   |
| Nova             | Territorial     | paste        | mid      | D                      | UR                    | 7.1               | 4.5              | red                    | 5                       | 3                    | 7                  | 6                             | 4                   | 5                          | F1                         |                               |
| Olivade          | Johnny's        | paste        | mid      | I                      | UR                    | 7.0               | 5.1              | red                    | 5                       | 1                    | 6                  | 5                             | 8                   | 7                          | F1                         | Bacterial speck; good flavor. |
| Oroma            | OSU             | paste        | mid      | D                      | UR                    | 6.8               | 3.4              | red                    | 4                       | 7                    | 7                  | 8                             | 5                   | 5                          | PL                         |                               |
| Ropreco Paste    | Seeds of Change | paste        | early    | SD                     | UR                    | 7.8               | 4.8              | red                    | 4                       | 3                    | 7                  | 8                             | 6                   | 6                          | PL                         | Bacterial speck.              |
| San Marzano      | Seeds of Change | paste        | late     | I                      | GS                    | 9.5               | 4.2              | red                    | 8                       | 1                    | 4                  | 4                             | 5                   | 4                          | PL                         |                               |
| Saucy            | OSU             | paste        | mid      | D                      | UR                    | 5.8               | 4.7              | red                    | 4                       | 1                    | 8                  | 8                             | 8                   | 8                          | PL                         |                               |
| Striped Roman    | Territorial     | paste        | mid      | I                      | GS                    | 9.5               | 5.0              | red and orange stripes | 8                       | 9                    | 4                  | 2                             | 7                   | 5                          | PL                         | Bacterial speck.              |
| Valencia         | Seeds of Change | paste        | mid      | SD                     | GS                    | 6.3               | 6.1              | orange                 | 4                       | 2                    | 3                  | 3                             | 4                   | 3                          | PL                         |                               |
| Oregon Pride     | OSU             | paste/slicer | mid      | D                      | UR                    | 7.3               | 6.9              | red                    | 4                       | 7                    | 7                  | 8                             | 3                   | 5                          | PL                         |                               |
| Japanese Trifele | Territorial     | pear         | late     | I                      | GS                    | 7.5               | 6.6              | green, red and orange  | 6                       | 1                    | 5                  | 4                             | 3                   | 3                          | PL                         | Potato-shaped leaf.           |
| Yellow Pear      | Nichols         | pear         | mid      | I                      | GS                    | 4.1               | 2.8              | yellow                 | 6                       | 7                    | 7                  | 6                             | 5                   | 5                          | PL                         |                               |
| IPB              | OSU             | salad        | early    | I                      | GS                    | 4.6               | 4.6              | red                    | 3                       | 2                    | 7                  | 7                             | 8                   | 7                          | PL                         | Yellow shoulders.             |

<sup>1</sup>Transplants set out May 28 in 60-inch rows with 24 inches between plants.

<sup>2</sup>I = indeterminate, D = determinate, SD = semi-determinate.

<sup>3</sup>UR = uniform ripening, GS = green shouldered.

<sup>4</sup>Scores based on a 1–9 scale, 9 = best cover.

<sup>5</sup>Scores based on a 1–9 scale, 9 = best (least sunburn).

<sup>6</sup>Yield is total yield; yield efficiency refers to the ratio of yield to plant size. Scores based on a 1–9 scale, 9 = best (highest ratio).

<sup>7</sup>Scores based on a 1–9 scale, 9 = best.

<sup>8</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. PL = pure line: genetically identical; seed is from self-pollinating crops and will breed true if saved to the next generation.

<sup>9</sup>Bacterial speck is caused by *Pseudomonas syringae* pv. *tomato*. It is a seedborne disease and overwinters in infected plant debris in the field. Symptoms occur on all plants parts; on leaves, spots are dark, round, and lack halos; on fruit, a black stippling will eventually result in small, superficial lesions with distinct margins. Mature fruits are resistant because of high acid content. Sclerotia are the hard, black overwintering structures of the necrotrophic plant pathogen *Sclerotinia sclerotiorum*, or white mold.

# Tomato<sup>1</sup>

| Variety        | Source      | Type   | Maturity | Vine Type <sup>2</sup> | Shoulder <sup>3</sup> | Fruit Height (cm) | Fruit Width (cm) | Fruit Color                   | Leaf Cover <sup>4</sup> | Sunburn <sup>5</sup> | Yield <sup>6</sup> | Yield Efficiency <sup>6</sup> | Flavor <sup>7</sup> | Overall Score <sup>7</sup> | Cultivar Type <sup>8</sup> | Notes <sup>9</sup>                   |
|----------------|-------------|--------|----------|------------------------|-----------------------|-------------------|------------------|-------------------------------|-------------------------|----------------------|--------------------|-------------------------------|---------------------|----------------------------|----------------------------|--------------------------------------|
| Ananas Noire   | Territorial | slicer | late     | I                      | GS                    | 10.2              | 6.4              | green, yellow, orange and red | 8                       | 8                    | 7                  | 6                             | 8                   | 7                          | PL                         | Green and pink inside.               |
| Big Beef       | Nichols     | slicer | mid      | I                      | GS                    | 8.9               | 6.3              | red                           | 7                       | 8                    | 8                  | 7                             | 5                   | 6                          | F1                         | Bacterial speck.                     |
| Brandywine     | Baker Creek | slicer | late     | I                      | GS                    | 7.5               | 10.5             | pink                          | 8                       | 1                    | 4                  | 3                             | 9                   | 6                          | PL                         | Good flavor; low yield.              |
| Celebrity      | Nichols     | slicer | mid      | D                      | GS                    | 6.4               | 7.7              | red                           | 7                       | 7                    | 8                  | 7                             | 7                   | 6                          | F1                         |                                      |
| Centennial     | OSU         | slicer | mid      | I                      | UR                    | 4.5               | 4.5              | red                           | 5                       | 9                    | 3                  | 2                             | 7                   | 4                          | PL                         |                                      |
| Copia          | High Mowing | slicer | mid      | I                      | GS                    | 5.4               | 10.1             | yellow-orange                 | 8                       | 1                    | 3                  | 2                             | 5                   | 4                          | PL                         | White mold sclerotia present.        |
| Country Taste  | Territorial | slicer | mid      | I                      | UR                    | 8.5               | 6.5              | red                           | 6                       | 8                    | 6                  | 5                             | 7                   | 6                          | F1                         | Bacterial speck.                     |
| Early Girl     | Nichols     | slicer | mid      | I                      | GS                    | 6.2               | 7.5              | red                           | 7                       | 7                    | 5                  | 4                             | 6                   | 5                          | F1                         | Very firm; bacterial speck on fruit. |
| Fantastic      | Territorial | slicer | mid      | SD                     | GS                    | 6.6               | 9.3              | red                           | 5                       | 1                    | 5                  | 5                             | 9                   | 7                          | F1                         |                                      |
| Frazier's Gem  | Territorial | slicer | mid      | D                      | GS                    | 5.3               | 7.4              | red                           | 6                       | 4                    | 6                  | 5                             | 7                   | 6                          | PL                         |                                      |
| Legend         | OSU         | slicer | mid      | D                      | UR                    | 6.2               | 7.9              | red                           | 5                       | 8                    | 6                  | 7                             | 7                   | 6                          | PL                         |                                      |
| Margo          | Seminis     | slicer | mid      | D                      | GS                    | 5.6               | 8.2              | red                           | 7                       | 2                    | 5                  | 4                             | 6                   | 5                          | F1                         | Vigorous growth.                     |
| Medford        | OSU         | slicer | mid      | D                      | UR                    | 7.2               | 6.8              | red                           | 5                       | 9                    | 5                  | 5                             | 7                   | 6                          | PL                         |                                      |
| New Yorker     | OSU         | slicer | mid      | D                      | UR                    | 5.2               | 6.1              | red                           | 2                       | 9                    | 7                  | 8                             | 3                   | 2                          | PL                         | Bacterial speck.                     |
| Orange Blossom | Johnny's    | slicer | mid      | D                      | UR                    | 6.4               | 9.9              | orange                        | 5                       | 3                    | 6                  | 5                             | 8                   | 7                          | F1                         | Crunchy.                             |

<sup>1</sup>Transplants set out May 28 in 60-inch rows with 24 inches between plants.

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<sup>4</sup>Scores based on a 1–9 scale, 9 = best cover.

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<sup>9</sup>Bacterial speck is caused by *Pseudomonas syringae* pv. *tomato*. It is a seedborne disease and overwinters in infected plant debris in the field. Symptoms occur on all plants parts; on leaves, spots are dark, round, and lack halos; on fruit, a black stippling will eventually result in small, superficial lesions with distinct margins. Mature fruits are resistant because of high acid content. Sclerotia are the hard, black overwintering structures of the necrotrophic plant pathogen *Sclerotinia sclerotiorum*, or white mold.

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|-----------------|-------------|--------|----------|------------------------|-----------------------|-------------------|------------------|-------------|-------------------------|----------------------|--------------------|-------------------------------|---------------------|----------------------------|----------------------------|-------------------------|
| Orange King     | Territorial | slicer | mid      | D                      | UR                    | 4.8               | 7.4              | orange      | 6                       | 4                    | 5                  | 5                             | 7                   | 6                          | PL                         | Very acidic.            |
| Oregon Spring   | OSU         | slicer | mid      | D                      | GS                    | 5.5               | 9.0              | red         | 7                       | 3                    | 5                  | 4                             | 6                   | 5                          | PL                         |                         |
| Oregon Star     | OSU         | slicer | mid      | D                      | UR                    | 7.5               | 6.2              | red         | 4                       | 9                    | 4                  | 4                             | 5                   | 4                          | PL                         | Grey interior wall.     |
| Peron Sprayless | OSU         | slicer | mid      | SD                     | GS                    | 5.4               | 7.0              | red         | 7                       | 1                    | 3                  | 2                             | 9                   | 5                          | PL                         | Good flavor, low yield. |
| Polbig          | Johnny's    | slicer | mid      | D                      | UR                    | 6.2               | 8.3              | red         | 5                       | 4                    | 8                  | 6                             | 6                   | 6                          | F1                         | Good texture.           |
| Ramapo          | Rutgers     | slicer | mid      | SD                     | GS                    | 8.4               | 5.6              | bright red  | 6                       | 6                    | 8                  | 7                             | 8                   | 8                          | F1                         | Bacterial speck.        |
| Santiam         | OSU         | slicer | mid      | D                      | GS                    | 4.9               | 7.3              | red         | 5                       | 7                    | 8                  | 7                             | 7                   | 6                          | PL                         | Bacterial speck.        |
| Severianin      | OSU         | slicer | mid      | D                      | GS                    | 5.0               | 7.4              | red         | 4                       | 1                    | 8                  | 8                             | 7                   | 7                          | PL                         |                         |
| Siletz          | OSU         | slicer | mid      | D                      | GS                    | 5.4               | 8.6              | red         | 6                       | 5                    | 7                  | 6                             | 8                   | 7                          | PL                         |                         |
| Sunkist         | High Mowing | slicer | late     | SD                     | UR                    | 6.8               | 7.6              | orange      | 7                       | 1                    | 4                  | 3                             | 7                   | 4                          | F1                         |                         |
| Willamette      | OSU         | slicer | mid      | D                      | UR                    | 6.0               | 7.4              | red         | 7                       | 7                    | 7                  | 6                             | 8                   | 7                          | PL                         |                         |
| Willamette VF   | OSU         | slicer | mid      | D                      | UR                    | 6.5               | 6.5              | red         | 6                       | 4                    | 6                  | 6                             | 7                   | 7                          | PL                         |                         |

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# Watermelon<sup>1</sup>

| Variety            | Source      | Maturity | Flesh Color | Rind Color                          | Fruit Length (cm) | Fruit Width (cm) | Rind Thickness (cm) | Fusarium <sup>2</sup> | Angular Leaf Spot <sup>2</sup> | Yield <sup>3</sup> | Flavor <sup>3</sup> | Brix <sup>4</sup> | Overall Score <sup>3</sup> | Cultivar Type <sup>5</sup> | Notes                                 |
|--------------------|-------------|----------|-------------|-------------------------------------|-------------------|------------------|---------------------|-----------------------|--------------------------------|--------------------|---------------------|-------------------|----------------------------|----------------------------|---------------------------------------|
| Ali Baba           | High Mowing | late     | red         | light green with green mottling     | -                 | -                | -                   | 7                     | 8                              | 6                  | -                   | -                 | -                          | OP                         | No ripe fruit for evaluation.         |
| Amarillo           | Rogers      | mid-late | yellow      | light green with dark green stripes | 17.1              | 17.7             | 1.3                 | 8                     | 8                              | 6                  | 4                   | 8.7               | 6                          | F1                         | Slightly young at evaluation.         |
| Charleston Grey    | Hollar      | late     | red         | light green with dark green stripes | 38.0              | 18.8             | 2.0                 | 9                     | 9                              | 7                  | -                   | -                 | -                          | OP                         | No ripe fruit for evaluation.         |
| Cooperstown        | Seminis     | mid      | red         | dark green with light green stripes | 24.5              | 20.5             | 1.5                 | 8                     | 8                              | 2                  | 5                   | 8.0               | 4                          | F1                         |                                       |
| Crimson Sweet      | Johnny's    | mid-late | red         | light green with green stripes      | 22.8              | 23.5             | 2.0                 | 7                     | 8                              | 7                  | 9                   | 10.6              | 8                          | OP                         |                                       |
| Delta              | Seminis     | late     | red         | dark green with light green stripes | 36.0              | 21.5             | 2.0                 | 8                     | 8                              | 4                  | 8                   | 10.2              | 8                          | F1                         | Rind may be thick due to young fruit. |
| Little Baby Flower | Johnny's    | early    | red         | green with dark green stripes       | 16.0              | 14.0             | 0.7                 | 3                     | 8                              | 6                  | 6                   | 9.8               | 6                          | F1                         |                                       |
| Mini Yellow        | D. Palmer   | mid-late | yellow      | dark green                          | 17.3              | 17.4             | 1.0                 | 8                     | 8                              | 2                  | 7                   | 9.4               | 6                          | F1                         |                                       |
| Orange Glow        | High Mowing | mid-late | orange      | light green with dark green stripes | 27.7              | 16.7             | 2.0                 | 8                     | 7                              | 5                  | 5                   | 9.2               | 5                          | OP                         |                                       |
| Ruby               | Hollar      | mid-late | red         | green with dark green stripes       | 21.5              | 18.9             | 1.7                 | 6                     | 8                              | 7                  | 8                   | 9.2               | 7                          | F1                         |                                       |
| Sangria            | Rogers      | mid-late | red         | dark green with light green stripes | 37.5              | 18.5             | 1.0                 | 7                     | 7                              | 3                  | 9                   | 9.2               | 8                          | F1                         |                                       |
| Solitaire          | Johnny's    | mid-late | red         | dark green with green stripes       | 16.3              | 17.2             | 1.2                 | 6                     | 8                              | 4                  | 7                   | 9.8               | 6                          | F1                         |                                       |
| Yellow Bird        | D. Palmer   | mid-late | yellow      | light green with dark green stripes | 17.9              | 19.1             | 1.2                 | 7                     | 8                              | 4                  | 6                   | 10.0              | 5                          | F1                         |                                       |
| Yellow Doll        | Nichols     | mid-late | yellow      | light green with dark green stripes | 16.5              | 26.8             | 1.2                 | 7                     | 8                              | 8                  | 7                   | 10.3              | 7                          | F1                         |                                       |
| Yellow Sunshine    | Johnny's    | mid-late | yellow      | light green with dark green stripes | 21.0              | 18.3             | 1.3                 | 8                     | 8                              | 8                  | 7                   | 11.0              | 8                          | F1                         |                                       |

<sup>1</sup>Direct seeded June 8 with 60-inch row spacing.

<sup>2</sup>Disease scores based on a 1–9 scale, 9 = severe. Fusarium wilt is a soilborne fungus that causes part or all of the plant to wilt. Angular leaf spot is caused by *Pseudomonas syringae* and produces small, angular water-soaked spots of leaves, stems, and fruit that are confined by the veins and have a tan upper surface and shiny lower surface. Another fungal disease seen mainly on leaf surfaces is powdery mildew.

<sup>3</sup>Scores based on a 1–9 scale, 9 = best.

<sup>4</sup>Brix: percent soluble solids (a measure of sweetness); higher numbers indicate sweeter fruit.

<sup>5</sup>F1 = F1 hybrid: the direct result of a cross between two genetically different parents (usually inbred lines); seed of these varieties will not reproduce true to type; advantages to gardeners include increased uniformity and vigor and often disease resistance. OP = open pollinated: varieties of cross-pollinated crops that will reproduce true to type if isolated from other varieties of the same species.