

# University of Wisconsin

## Urban and Regional Food Systems

### 2015 Vegetable Variety Screening Trials

#### Melon

**Trial Notes:** All varieties planted June 3, 2015. Seeds were planted in mounds and beds were mulched with chopped alfalfa hay. High incidence of Angular Leaf Spot early in the season. \*Kabayon is the only variety that displayed strong resistance to this disease. Four plants per mound spaced at 12ft between mounds.

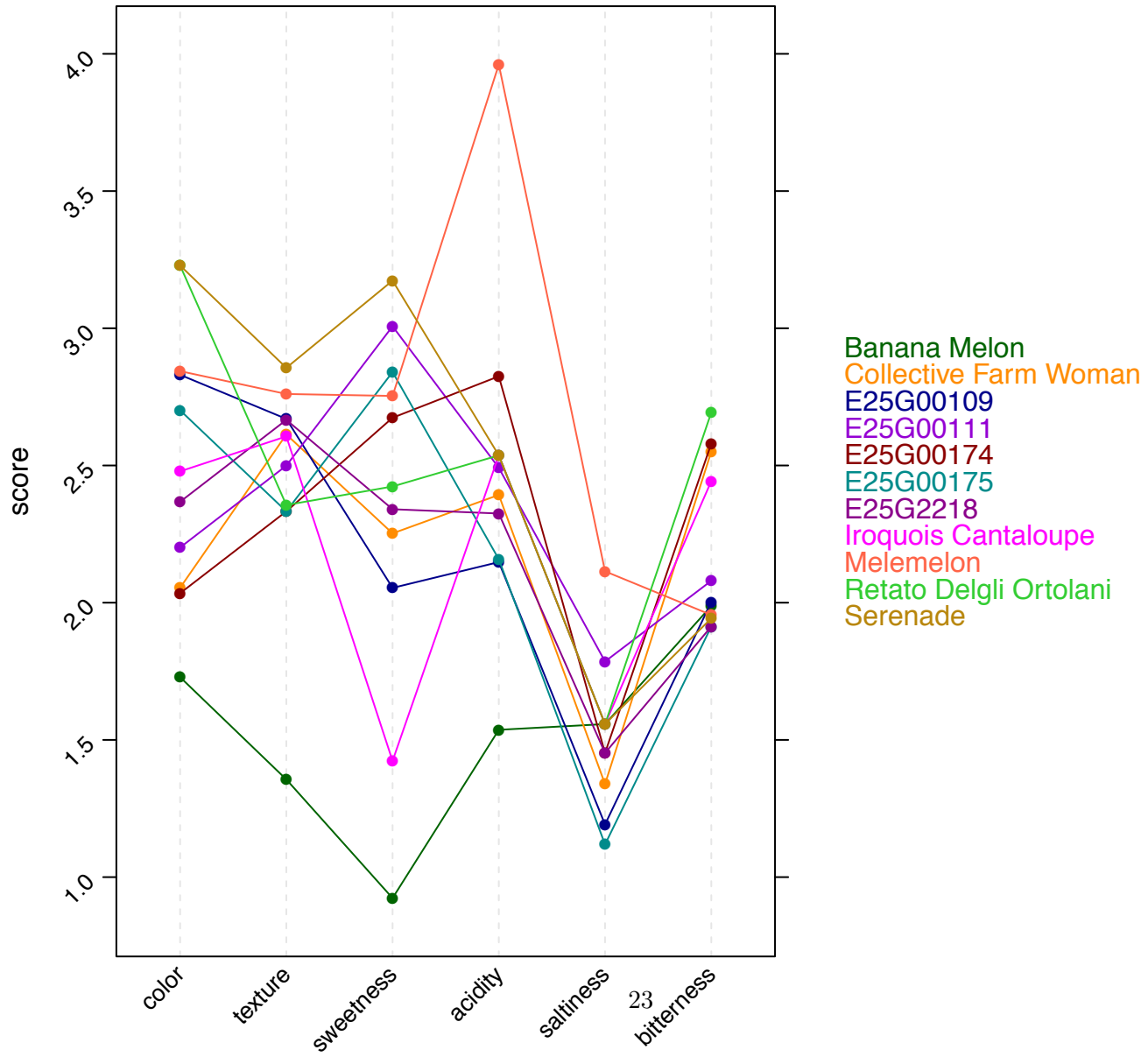
| Cultivar                    | Company                    | Germ | First Female Flower | First Harvest | Total #M Fruit | Total #UM Fruit | Total #Fruit | #M Fruit per Plant | % M Fruit | Total M Weight (kg) | Avg Weight per Fruit (kg) | Avg Brix | notes   |
|-----------------------------|----------------------------|------|---------------------|---------------|----------------|-----------------|--------------|--------------------|-----------|---------------------|---------------------------|----------|---|
| Melemon                     | AAS                        | 1.00 | 15-Jul              | 11-Sep        | 11             | 15              | 26           | 2.8                | 42.3%     | 19.85               | 1.804                     | 7.0      |   |
| Banana Melon                | Hudson Valley Seed Library | 1.00 | 28-Jul              | 11-Sep        | 24             | 4               | 28           | 6.0                | 85.7%     | 47.37               | 1.974                     | 4.5      |   |
| Collective Farm Woman Melon | Hudson Valley Seed Library | 1.00 | 28-Jul              | 11-Sep        | 14             | 8               | 22           | 3.5                | 63.6%     | 14.51               | 1.037                     | 7.9      | p   |
| Iroquois Cantaloupe         | Hudson Valley Seed Library | 1.00 | 28-Jul              | 6-Sep         | 31             | 1               | 32           | 7.8                | 96.9%     | 41.97               | 1.354                     | 6.5      | ripened all at once, slipped well                         |
| Serenade                    | Johnny's Selected Seeds    | 0.75 | 15-Jul              | 11-Sep        | 57             | 12              | 69           | 14.3               | 82.7%     | 47.44               | 0.827                     | 11.5     |   |
| Retato Delgli Ortolani      | Seeds from Italy           | 1.00 | 15-Jul              | 11-Sep        | 7              | 5               | 12           | 1.8                | 58.3%     | 10.37               | 1.481                     | 6.2      |   |
| Zatta                       | Seeds from Italy           | 1.00 | 15-Jul              | 11-Sep        | 9              | 3               | 12           | 2.3                | 75.0%     | 6.40                | 0.711                     | NA       |   |
| Artemis F1                  | Vitalis                    | 0.75 | 15-Jul              | 6-Sep         | 23             | 12              | 35           | 5.7                | 65.4%     | 29.21               | 1.289                     | 10.2     |   |
| E25G.00109                  | Vitalis                    | 1.00 | 15-Jul              | 6-Sep         | 14             | 6               | 20           | 3.5                | 70.0%     | 27.83               | 1.988                     | 7.4      |   |
| E25G.00111                  | Vitalis                    | 0.75 | 15-Jul              | 11-Sep        | 3              | 11              | 13           | 0.7                | 20.0%     | 9.72                | 3.645                     | NA       |   |
| E25G.00174                  | Vitalis                    | 0.75 | 15-Jul              | 11-Sep        | 21             | 7               | 28           | 5.3                | 76.2%     | 40.15               | 1.882                     | 9.9      |   |
| E25G.00175                  | Vitalis                    | 1.00 | 15-Jul              | 11-Sep        | 21             | 6               | 27           | 5.3                | 77.8%     | 37.32               | 1.777                     | 6.9      |   |
| E25G.2218                   | Vitalis                    | 0.75 | 28-Jul              | 11-Sep        | 29             | 16              | 45           | 7.3                | 64.7%     | 50.29               | 1.715                     | 8.3      |   |
| E265G.00048                 | Vitalis                    | 1.00 | 15-Jul              | 6-Sep         | 15             | 14              | 29           | 3.8                | 51.7%     | 30.04               | 2.003                     | 10.3     | fruits ripened unevenly, unripe near rind, ripe in center |
| E81.5024                    | Vitalis                    | 0.75 | 15-Jul              | 6-Sep         | 33             | 11              | 44           | 8.3                | 75.8%     | 77.92               | 2.338                     | 6.9      | very large, tended towards mealy when ripe                |
| Kabayon (E25S.7003)*        | Vitalis                    | 1.00 | 28-Jul              | 25-Sep        | 13             | 6               | 19           | 3.3                | 68.4%     | 23.31               | 1.793                     | 9.0      | very late   |
| Porteza                     | Vitalis                    | 1.00 | 28-Jul              | 16-Sep        | 20             | 9               | 29           | 5.0                | 69.0%     | 33.84               | 1.692                     | 7.8      |   |

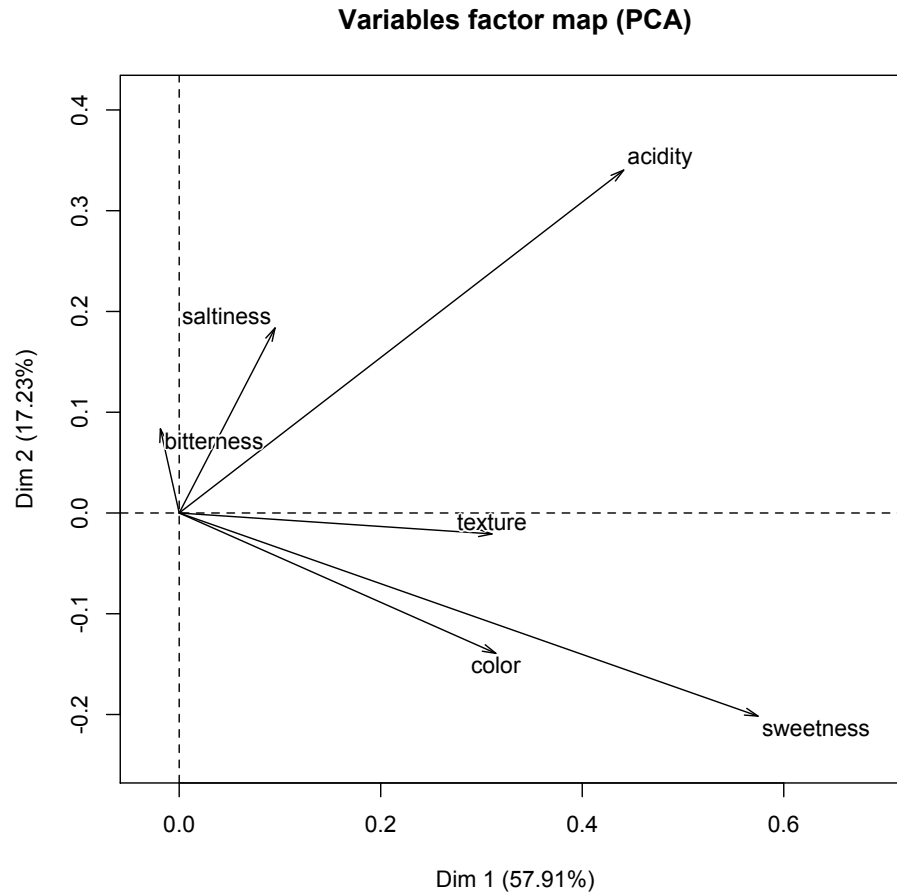
## Melon

| Variety        | intensity** | color* | sweet*** | acidity*** | texture | saltiness | bitterness |
|----------------|-------------|--------|----------|------------|---------|-----------|------------|
| Melemelon      | 3.7         | 2.8    | 2.8      | 4.0        | 2.8     | 2.1       | 2.0        |
| Serenade       | 3.4         | 3.2    | 3.2      | 2.5        | 2.9     | 1.6       | 1.9        |
| E25G00175      | 3.3         | 2.7    | 2.8      | 2.2        | 2.3     | 1.1       | 1.9        |
| E25G00174      | 3.1         | 2.0    | 2.7      | 2.8        | 2.3     | 1.5       | 2.6        |
| E25G00111      | 3.0         | 2.2    | 3.0      | 2.5        | 2.5     | 1.8       | 2.1        |
| E25G00109      | 2.9         | 2.8    | 2.1      | 2.1        | 2.7     | 1.2       | 2.0        |
| E25G2218       | 2.6         | 2.4    | 2.3      | 2.3        | 2.7     | 1.5       | 1.9        |
| Retato Delgli  | 2.4         | 3.2    | 2.4      | 2.5        | 2.4     | 1.6       | 2.7        |
| Collective Far | 2.3         | 2.1    | 2.3      | 2.4        | 2.6     | 1.3       | 2.6        |
| Banana Melon   | 1.7         | 1.7    | 0.9      | 1.5        | 1.4     | 1.6       | 2.0        |
| Iroquois Cant  | 1.7         | 2.5    | 1.4      | 2.5        | 2.6     | 1.6       | 2.4        |

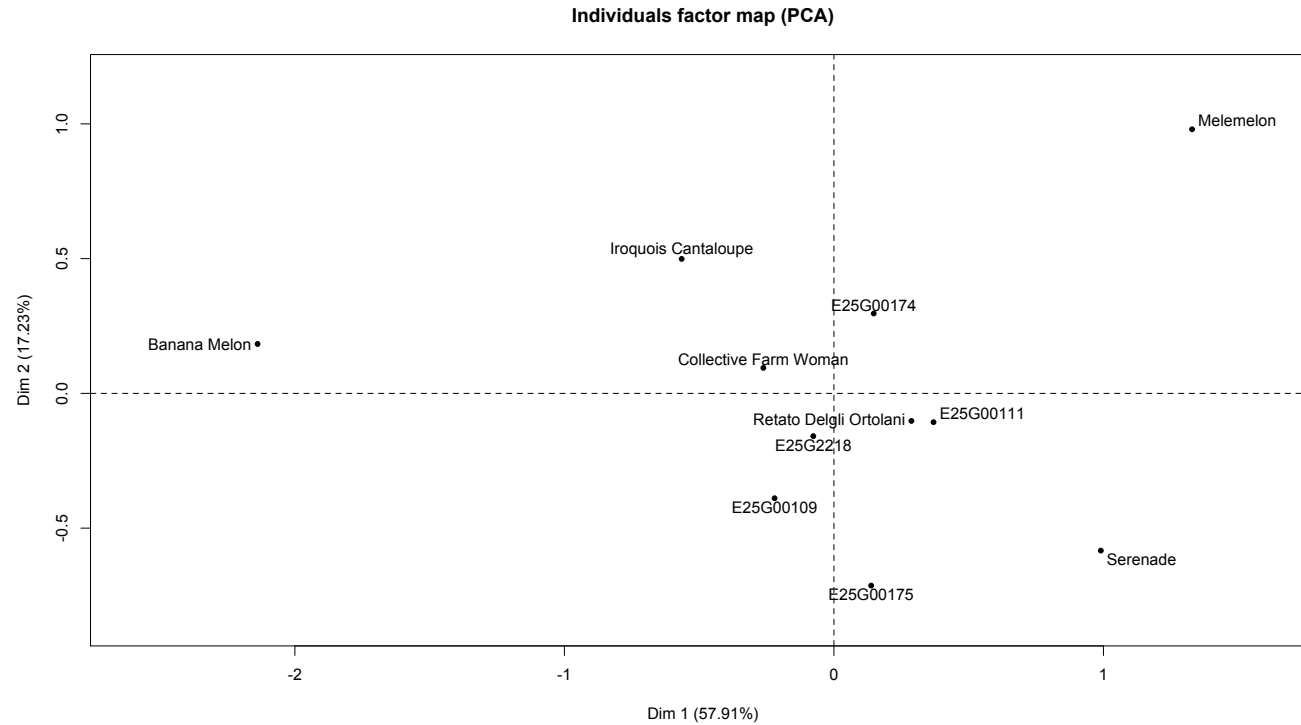
# Melons







Representation of quality characteristics, based on crew evaluation, resulting from a principal component analysis of all crew quality evaluation data. The length of the arrow for each characteristic is proportional to its contribution to the variation among varieties, and the direction of the arrow is in the direction of increasing scores for that characteristic. This shows how related the characteristics are to each other, and is also used to read the following graph of varieties. The individual (variety) factor map on the next page plots where each variety lands relative to these quality components



Representation of varieties, based on crew evaluation, resulting from a principal component analysis of all crew quality evaluation data. The position of each variety shows how it was evaluated for the different quality characteristics on the previous page. For example, a variety that near or beyond the end of the color arrow would show particularly intense color and a variety on the opposite side of the graph than the direction in which the color arrow points would have poor color. This can be done for each of the quality characteristics. This graph also shows how varieties are related to each other for the complete set of quality characteristics, and characteristics that contributed more to the variation among varieties have greater weight in determining where varieties are positioned on the graph. This can be helpful in making selections based on multiple characteristics at once. This graph helps us select which varieties we send to the group of chefs we are working with for further quality evaluation

| Melon Variety       | Date                | Number of Chefs | Flavor Intensity (1-9, 9=high) | Buy for yourself | Buy for your restaurant | How would you serve it?                 | Description of unique flavor characteristics   | Strongest point                     | Major flaws          |
|---------------------|---------------------|-----------------|--------------------------------|------------------|-------------------------|---|--|-------------------------------------|----------------------|
| Melemon             | 9.15.15             | 5               | 8.20                           | 0.60             | 0.60                    | raw ; ;<br>juiced, raw,<br>pureed ; ; . | acid, lemon citric ; sweet and sour and appley, delicious citrus ; acidic, sweet, juicy, unique ; bright and tart acidity ; intense lemony, sour | . ; . ; different ; tartness ; sour | . ; ; . ; ; . ; sour |
| Artemis             | 9.10.15             | 2               | 7.50                           | 1.00             | 1.00                    | . ; .                                   | standard canteloupe, good flavor ; .   | . ; .                               | . ; .                |
| E25G.00111          | 9.15.15             | 4               | 7.50                           | 0.75             | 0.75                    | raw ; ; . ; .                           | sweet ; salty and smokey ; fragrant, sweet, acidic ; sweet dirt, good, low acid  | . ; . ; . ; .                       | . ; ; . ; . ; .      |
| E81.5024            | 9.10.15             | 2               | 7.00                           | 0.00             | 0.00                    | . ; .                                   | Soft, overripe. But not overly sweet ; soft texture  | . ; .                               | . ; texture          |
| E25G.00174          | 9.15.15             | 4               | 6.50                           | 0.50             | 0.50                    | sauce, ice cream ; not ; ;<br>; .       | sweet ; notes of nail polish remover ; very melon, sweet juice ; melon strong but close to superglue   | . ; . ; . ; .                       | . ; too ripe ; ; .   |
| E265G.00048         | 9.10.15             | 2               | 6.00                           | 0.00             | 0.00                    | . ; .                                   | inconsistent from bite to bite ; softer texture, spotty ripeness   | . ; .                               | .                    |
| Collective Farm Wom | 9.15.15             | 5               | 5.40                           | 0.50             | 0.50                    | ice cream sauce ; ; ; . ;<br>; .        | sweet meaty ; sweet, melony ; savory mealy bland ; smokey flavor and sweet ; sweet, falls off quickly, turn bland                                | . ; . ; . ; . ; .                   | . ; ; . ; . ; . ; .  |
| E25G.00109          | 9.10.15             | 2               | 7.50                           | 1.00             | 1.00                    | . ; .                                   | Honey ; sweet apple  |                                     |                      |
| E25G.00109          | 9.15.15             | 4               | 3.25                           | 0.25             | 0.25                    | raw, ice cream ; ; . ; .                | balanced ; bland sourness ; bland ; bland  | . ; . ; . ; .                       | . ; ; . ; . ; .      |
| E25G.00109          | 9.15.15&<br>9.10.15 | 6               | 5.07                           | 0.57             | 0.57                    | . ; . ; .                               | Honey, sweet apple, bland sourness ; bland ; bland   | . ; . ; .                           | . ; . ; .            |
| E25G.2218           | 9.15.15             | 3               | 5.00                           | 0.33             | 0.33                    | raw, ice cream ; ; .                    | sweet/juice ; tomatoey ; sweet   | . ; . ; .                           | . ; . ; .            |

