Storage Cabbage Variety Evaluation 2007-2008

Varieties greater than 4 star rating
(very good and perfect)

Christy Hoepting and Katie Klotzbach,
Cornell Cooperative Extension Vegetable Program
Evaluation Key

**YR:** Yellows resistant

**Plant size**
- **S** – small
- **M** – medium
- **L** – large
- **VL** – very large

**Uniformity**
- **F** – fair
- **G** – good
- **VG** – very good
- **E** – excellent

**Var.** trait is variable across replicates

**Plant Growth**
- **U** – upright
- **ST** – slightly tipped
- **T** – tipped

**Letter combinations**
- For letter combinations, describing plant characteristics, the first trait listed is the strongest. *Example: SM = more small than medium, ML is smaller than LM*
Evaluation Key

5-Heart Rating
- Perfect ★★★★★
- Very Good ★★★★
- Average ★★★
- Below Average ★★
- Unacceptable ★

Onion Thrips Damage
- Depth: number of leaves deep that have thrips damage.
- Severity
  - 0 = no damage
  - 3 = maximum commercial acceptability
  - 5 = severe.

( ) or [ ]: trial average

Underlined values indicate best result per variable.
Trial Average

For each variable (i.e. % total loss, marketable yield, etc.), all heads in the entire trial are averaged to give a “trial average”. Individual varieties are compared to the trial average to see if they perform at, below or above average.

This diagram illustrates the “trial average” for head size prior to storage and after common and cold storage.

<table>
<thead>
<tr>
<th>Wt in: 4.0 lb</th>
<th>% shrink</th>
<th>% trim</th>
<th>% total loss</th>
<th>Final head wt (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common</td>
<td>20.1</td>
<td>18.2</td>
<td>39.5</td>
<td>2.6</td>
</tr>
<tr>
<td>Cold</td>
<td>15.3</td>
<td>22.3</td>
<td>36.5</td>
<td>2.5</td>
</tr>
</tbody>
</table>
Field Info: ★★★★★
Plant size: **M (11th)** Uniformity: **VG (7th)**
Growth Habit: **ST-U (11th)**
Off-types: **3.3%** Rots: **0.0%**
Head size: **4.13 lb**
Thrips (depth/severity): **0.1/0.1**
**Bloktor: Cold Storage**

<table>
<thead>
<tr>
<th>Wt in: 4.13 lb</th>
<th>% shrink</th>
<th>% trim</th>
<th>% total loss</th>
<th>Final head wt (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Common</strong></td>
<td>15.6 (20.1)</td>
<td>10.8 (18.2)</td>
<td>26.5 (39.5)</td>
<td>3.2 (2.6)</td>
</tr>
<tr>
<td><strong>Cold</strong></td>
<td>11.3 (15.3)</td>
<td>21.4 (22.3)</td>
<td>32.7 (36.5)</td>
<td>2.8 (2.5)</td>
</tr>
</tbody>
</table>
Bloktor: Common Storage

- One of best storing varieties in trial with 2nd lowest total loss out of both storages
- Out of common storage
  - 40% pepper spot
  - 10% tipburn
  - 10% of cores starting to rot
- Fine leaves, easy trim
Superstor 112 YR

Field Info: ★★★★★☆
Plant size: L (5th) Uniformity: VG (3rd)
Growth Habit: U-ST (6th)
Off-types: 2.2% Rots: 0.0%
Head size: 4.97 lb
Thrips (depth/severity): 1.3/0.2
Superstor 112: Cold Storage

<table>
<thead>
<tr>
<th></th>
<th>% shrink</th>
<th>% trim</th>
<th>% total loss</th>
<th>Final head wt (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Common</strong></td>
<td>14.0</td>
<td>11.3</td>
<td><strong>25.3</strong></td>
<td>4.0 (2.6)</td>
</tr>
<tr>
<td></td>
<td>(20.1)</td>
<td>(18.2)</td>
<td>(39.5)</td>
<td></td>
</tr>
<tr>
<td><strong>Cold</strong></td>
<td>11.3</td>
<td>24.0</td>
<td><strong>35.2</strong></td>
<td>3.6 (2.5)</td>
</tr>
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<td></td>
<td>(15.3)</td>
<td>(22.3)</td>
<td>(36.5)</td>
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Wt in: 4.97 lb

5% Unmarketable heads out of cold storage
Superstor 112: Common Storage

- 3rd best uniformity in trial
- 4th largest head size, estimated and marketable yield in trial
- Looks good overall!
- One of best storing varieties in trial
- 1st and 2nd largest head size in trial out of common and cold, respectively
- Least shrink loss and total loss in trial out of common
- Least shrink loss in trial out of cold
- Slightly over mature at harvest
- Out of common: 40% cores starting to rot
- Slanted cores
Novator YR
[Rogers/Syngenta 110]

Field Info:
Plant size: L (3rd) Uniformity: VG (2nd)
Growth Habit: U-ST (5th)
Off-types: 1.1% Rots: 0.0%
Head size: 5.13 lb
Thrips (depth/severity): 2.4/0.2
Novator: Cold Storage

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<td></td>
<td>14.3</td>
<td>12.4</td>
<td>26.7</td>
<td>3.8 (20.1)</td>
</tr>
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Novator: Common Storage

- 3rd largest plant size in trial
- 2nd best uniformity in trial
- 3rd largest average head size, estimated yield, and marketable yield in trial
- One of best storing varieties in trial - 2nd and 3rd largest head size out of common and cold storage, respectively
- Greenest variety
- Thick leaves
- Sweet
- Looks good!
**Amtrak YR Standard**

[Bejo 115]

Field Info: ★★★★★

- Plant size: **L (3rd)**
- Uniformity: **G-E (var.)**
- Growth Habit: **ST (13th)**
- Off-types: **1.1%**
- Rots: **3.2%**
- Head size: **4.90 lb**
- Thrips (depth/severity): **0.4/0.02**
Amtrak: Cold Storage

<table>
<thead>
<tr>
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<th>Wt in: 4.90 lb</th>
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<tr>
<td>Common</td>
<td></td>
<td>16.7</td>
<td>13.1</td>
<td>29.8</td>
<td>3.8</td>
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<tr>
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<td>23.4</td>
<td>35.3</td>
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Amtrak: Common Storage

- 3rd largest plant size in trial
- Poorest growth habit in trial (slightly tipped
- 2nd lowest off-types (1.1%)
- 2nd highest incidence of rot (3.3%)
- 2nd and 4th largest head size out of common and cold storage, respectively
- 3rd most green out of cold
- Slightly over mature at harvest
Field Info: ★★★★★

- Plant size: L (3rd)
- Uniformity: VG-G (8th)
- Growth Habit: U-ST (3rd)
- Off-types: 2.2% Rots: 0.0%
- Head size: 4.43 lb
- Thrips (depth/severity): 0.3/0.01
### Constellation: Cold Storage

<table>
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<tr>
<th>Wt in: 4.43 lb</th>
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<tr>
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<td>16.9</td>
<td>29.3</td>
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Constellation: Common Storage

- 3rd largest plant size in trial
- 3rd best growth habit in trial
- 4th largest head size out of common
- 2nd largest head size out of cold
- Best long term storage variety in trial
- One of greenest varieties
- Looked slightly immature
- Easy to trim
- Looks good!
Field Info: ★★★★★
- Plant size: VL (1st)
- Uniformity: G (11th)
- Growth Habit: U-ST (3rd)
- Off-types: 1.1%
- Rots: 1.4%
- Head size: 5.90 lb
- Thrips (depth/severity): 0.4/0.1
Fundaxy: Cold Storage

<table>
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<tr>
<td>Common</td>
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Fundaxy: Common Storage

- Largest plant size in trial
- 2nd lowest incidence of off-types
- 2nd largest head size and estimated yield
- Largest marketable yield in trial!
- 3rd and 1st largest head size out of common and cold storage, respectively
- 3rd most greenness out of common storage
- Appeared immature at pack out
- Pressure bruises after long-term storage
- Tough peel
- Looks good overall!
Buscaro [Bejo 105]

Field Info: ★★★★★
- Plant size: ML (9th)
- Uniformity: VG (5th)
- Growth Habit: U (2nd)
- Off-types: 0.0%
- Rots: 0.0%
- Head size: 2.50 lb
- Thrips (depth/severity): 0.0/0.0
**Buscaro: Cold Storage**

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<tr>
<td></td>
<td><strong>28.4</strong> (20.1)</td>
<td><strong>14.3</strong> (18.2)</td>
<td><strong>42.7</strong> (39.5)</td>
<td><strong>1.6</strong> (2.6)</td>
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<td></td>
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4.5% unmarketable heads out of cold storage
Buscaro: Common Storage

- 2nd best growth habit in trial
- Only variety with no off-types
- Some basal buds
- 1 of 3 varieties with no thrips damage!
- Small head size out of both storages
- Looks nice, just small