2008 Kraut Cabbage Variety Evaluation

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Evaluations: Plant Characteristics and Thrips

**Plant Size:**
- **M** = Medium
- **ML** = Medium-Large
- **L** = Large
- **VL** = Very Large

**Growth habit:**
- **U** = Upright
- **ST** = Slightly tipped
- **T** = Tipped

**Uniformity:**
- **E** = Excellent
- **VG** = Very Good
- **G** = Good
- **F** = Fair
- **P** = Poor

**Thrips Damage:**
- **Depth:** number of layer affected
- **Severity:** Scale of 0-5
  - **0** = No Thrips
  - **1** = Low
  - **3** = Commercially Acceptable
  - **5** = Really Bad
Evaluations: Head Characteristics

• **Head Shape:**
  - **R** = Round
  - **RP** = Round with a point
  - **RF** = Round-Flat (i.e. more flat than round)
  - **FR** = Flat-Round
  - **TB** = Tapered base

• **Roundness:**
  - Width minus length
  - Values closest to zero are the most perfectly round
  - Positive values are more wide than tall

• **Internal Color:**
  - **W** = White
  - **WY** = White-Yellow
  - **YW** = Yellow-White (i.e. more yellow than white)

• **Hyphenated descriptions:**
  - First entry is more dominant
  - Example: ML-L means that plant size is more ML than L
Evaluations: Marketable Yield

- **Estimated marketable yield:**
  extrapolated from total weight of 5 sound heads in an area 20.8ft$^2$, minus the % unmarketable

- **% Unmarketable heads:**
  includes rots, large splits and unmarketable off-types (i.e. multiple heads)

- **% Tip burn and % Off-types:**
  results only taken on optimal harvest date(s)
Trial Average

• The average of all replicates for all varieties per harvest
• Compare performance of individual varieties to trial average
• Underlined values indicate the best result per characteristic
• Bolded values indicate a result equal to or better than the trial average
Cecile (Bejo): Aug 29

- Plant size: L (9th)
- Uniformity: G-VG (16th)
- Growth habit: U-ST (8th)
- Head weight: 10.1 lbs
- Marketable yield: 52.1 ton/acre (2nd highest in early class)
- Unmarketable: 1.2%
  - Large Splits: 0.0%
  - Small Splits: 5.2%
  - Rots: 1.2%
  - Offs: 0.0%
Cecile (Bejo): Aug 29

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• Shape: R
  – Roundness = 1.5
• Internal Color: WY (3rd)
• Core length: 3.5 in
• % Tip Burn: 0.0
• % Split Core: 6.7
• Dry wt: 6.6%
• Thrips:
  – depth = 7.1
  – severity = 1.5
• Comments: Looks good! Thin leaves
Cecile (Bejo): Sept 11

- Plant size: L (9th)
- Uniformity: G-VG (16th)
- Growth habit: U-ST (8th)
- Head weight: 11.7 lbs
- Marketable yield: 60.3 ton/acre (2nd highest in early class)
- Unmarketable: 1.4%
  - Large Splits: 0.0%
  - Small Splits: 15.9%
  - Rots: 1.5%
  - Offs: 0.0%
Cecile (Bejo): Sept 11

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- Shape: R
  - Roundness = 1.5
- Internal Color: WY (3rd)
- Core length: 3.5 in
- % Tip Burn: 0.0
- % Split Core: 0.0
- Dry wt: 8.0%
- Thrips:
  - depth = 5.9
  - severity = 2.1
- Comments: Looks good! Thin leaves

Deep thrips damage
Cabton (Bejo): Sept 24

- Plant size: VL (1<sup>st</sup>)
- Uniformity: VG-G (10<sup>th</sup>)
- Growth habit: U-ST (2<sup>nd</sup>)
- Head weight: 14.4 lbs (3<sup>rd</sup> largest in trial)
- Marketable yield: 74.1 ton/acre (4<sup>th</sup> highest in trial)
- Unmarketable: 1.6%
  - Large Splits: 0.0%
  - Small Splits: 1.6%
  - Rots: 0.0%
  - Offs: 1.6%
Cabton (Bejo): Sept 24

- Shape: R
  - Roundness = 2.3
- Internal Color: YW-W (4th)
- Core length: 4.3 in
- % Tip Burn: 0.0%
- % Split Core: 6.7%
- Dry wt: 6.2%
- Thrips:
  - depth = 1.9
  - severity = 0.5
- Comments: Looks good!
- Cabbage Maggot: 4.4% incidence of feeding damage at harvest
Cabton (Bejo): Oct 8

- Plant size: VL (1\textsuperscript{st})
- Uniformity: VG-G (10\textsuperscript{th})
- Growth habit: U-ST (2\textsuperscript{nd})
- Head weight: 14.4 lbs (3\textsuperscript{rd} largest in trial)
- Marketable yield: 73.1 ton/acre (4\textsuperscript{th} highest in trial)
- Unmarketable: 2.8%
  - Large Splits: 0.0%
  - Small Splits: 2.2%
  - Rots: 2.8%
  - Offs: 1.6%
Cabton (Bejo): Oct 8

- Shape: R
  - Roundness = 2.3
- Internal Color: YW-W (4th)
- Core length: 4.3 in
- % Tip Burn: 0.0%
- % Split Core: 0.0%
- Dry wt: 7.3%
- Thrips:
  - depth = 1.0
  - severity = 0.3
- Comments: Looks good!
- Cabbage Maggot: 4.4% incidence of feeding damage at harvest
Kaitlin (Bejo) *Mid Standard*: Sept 11

- Plant size: L-VL (5th)
- Uniformity: VG-E (4th)
- Growth habit: U-ST (2nd)
- Head weight: **12.7** lbs (2nd largest in maturity class)
- Marketable yield: **65.5** ton/acre (best in maturity class)
- Unmarketable: **1.2%**
  - Large Splits: **0.0%**
  - Small Splits: **9.7%**
  - Rots: **0.0%**
  - Offs: **1.3%**
Kaitlin (Bejo) Mid Standard: Sept 11

- Shape: R
  - Roundness: 2.5
- Internal Color: W-WY (1st)
- Core length: 3.3 in
- % Tip Burn: 0.0
- % Split Core: 40.0
- Dry wt: 6.8%
- Thrips:
  - depth = 3.8
  - severity = 0.6
- Comments: Minor incidence of black hydrathodes (unknown cause)
- Cabbage Maggot: 2.2% incidence of feeding damage at harvest
Kaitlin (Bejo) Mid Standard: Sept 24

- Plant size: L-VL (5th)
- Uniformity: VG-E (4th)
- Growth habit: U-ST (2nd)
- Head weight: 11.5 lbs (2nd largest in maturity class)
- Marketable yield: 60.4 ton/acre (best in maturity class)
- Unmarketable: 0.0%
  - Large Splits: 0.0%
  - Small Splits: 22.4%
  - Rots: 0.0%
  - Offs: 1.3%
Kaitlin (Bejo) *Mid Standard*: Sept 24

- **Shape**: R
  - Roundness: 2.5
- **Internal Color**: W-WY (1st)
- **Core length**: 3.3 in
- **% Tip Burn**: 0.0
- **% Split Core**: 40.0
- **Dry wt**: 6.6%
- **Thrips**:
  - depth = 2.7
  - severity = 1.2
- **Comments**: Minor incidence of black hydrathodes (unknown cause)
- **Cabbage Maggot**: 2.2% incidence of feeding damage at harvest
Milestone (Bejo): Sept 24

- Plant size: L-VL (6th)
- Uniformity: VG-G (12th)
- Growth habit: ST (10th)
- Head weight: 14.2 lbs (best in trial!)
- Marketable yield: 74.4 ton/acre (best in trial!)
- Unmarketable: 0.0%
  - Large Splits: 0.0%
  - Small Splits: 16.8%
  - Rots: 0.0%
  - Offs: 1.6%
Milestone (Bejo): Sept 24

- Shape: R-RF
  - Roundness = 2.1
- Internal Color: YW (6\textsuperscript{th})
- Core length: 3.1 in
- % Tip Burn: 0.0
- % Split Core: 20.0
- Dry wt: 6.5%
- Thrips:
  - depth = 3.3
  - severity = 1.3
- Comments:
  - Coarse appearance, loosely packed
  - Dense
Milestone (Bejo): Oct 8

- Plant size: L-VL (6th)
- Uniformity: VG-G (12th)
- Growth habit: ST (10th)
- Head weight: **15.9** lbs (best in trial!)
- Marketable yield: **81.0** ton/acre (best in trial!)
- Unmarketable: 2.2%
  - Large Splits: 2.2%
  - Small Splits: 8.8%
  - Rots: 2.2%
  - Offs: 1.6%
Milestone (Bejo): Oct 8

- Shape: R-RF
  - Roundness = 2.1
- Internal Color: YW (6th)
- Core length: 3.1 in
- % Tip Burn: 0.0
- % Split Core: 26.7
- Dry wt: 7.5%
- Thrips:
  - depth = 3.9
  - severity = 2.0
- Comments:
  - Coarse appearance, loosely packed
  - Dense
Score (Bejo): Sept 24

- Plant size: VL (2nd)
- Uniformity: G (19th)
- Growth habit: U-ST (7th)
- Head weight: 14.0 lbs (2nd largest in trial)
- Marketable yield: 71.9 ton/acre (2nd largest in trial)
- Unmarketable: 1.8%
  - Large Splits: 1.8%
  - Small Splits: 16.9%
  - Rots: 0.0%
  - Offs: 1.8%
Score (Bejo): Sept 24

- Shape: R
  - Roundness = 2.6
- Internal Color: YW (8th)
- Core length: 3.7 in
- % Tip Burn: 0.0
- % Split Core: 20.0
- Dry wt: 7.1%
- Thrips:
  - depth = 3.6
  - severity = 1.6
- Comments:
  - Thick leaves
  - Outer leaves have coarse appearance, loosely packed
  - Tight center
  - Looks good!
Score (Bejo): Oct 8

- Plant size: VL (2\textsuperscript{nd})
- Uniformity: G (19\textsuperscript{th})
- Growth habit: U-ST (7\textsuperscript{th})
- Head weight: 14.5 lbs (2\textsuperscript{nd} largest in trial)
- Marketable yield: 76.0 ton/acre (2\textsuperscript{nd} largest in trial)
- Unmarketable: 0.0\%
  - Offs: 1.8\%
Score (Bejo): Oct 8

- Shape: R
  - Roundness = 2.6
- Internal Color: YW (8th)
- Core length: 3.7 in
- % Tip Burn: 0.0
- % Split Core: 0.0
- Dry wt: 7.7%
- Thrips:
  - depth = 3.6
  - severity = 1.5
- Comments:
  - Thick leaves
  - Outer leaves have coarse appearance, loosely packed
  - Tight center
  - Looks good!
ATI A (American Takii): Sept 24

- Plant size: L-ML (13th)
- Uniformity: VG (10th)
- Growth habit: U-ST (4th)
- Head weight: 12.5 lbs
- Marketable yield: 65.2 ton/acre
- Unmarketable: 0.0%
  - Large Splits: 0.0%
  - Small Splits: 1.3%
  - Rots: 0.0%
  - Offs: 0.0%
• Shape: RP
  – Roundness = 1.3
• Internal Color: YW-WY (5th)
• Core length: 3.7 in
• % Tip Burn: 0.0
• % Split Core: 13.3
• Dry wt: 7.6%
• Thrips:
  – depth = 5.5
  – severity = 0.7
• Comments:
  – Dense
  – Looks good!
ATI A (American Takii): Oct 8

- Plant size: L-ML (13th)
- Uniformity: VG (10th)
- Growth habit: U-ST (4th)
- Head weight: 13.3 lbs
- Marketable yield: 69.8 ton/acre
- Unmarketable: 0.0%
  - Large Splits: 0.0%
  - Small Splits: 3.2%
  - Rots: 0.0%
  - Offs: 0.0%
ATI A (American Takii): Oct 8

- Shape: RP
  - Roundness = 1.3
- Internal Color: YW-WY (5th)
- Core length: 3.7 in
- % Tip Burn: 0.0
- % Split Core: 0.0
- Dry wt: 8.1%
- Thrips:
  - depth = 3.4
  - severity = 0.7
- Comments:
  - Dense
  - Looks good!
Moreton (Reeds): Sept 24

- Plant size: VL (3<sup>rd</sup>)
- Uniformity: G-VG (15<sup>th</sup>)
- Growth habit: U-ST (6<sup>th</sup>)
- Head weight: 12.7 lbs (3<sup>rd</sup> largest in trial)
- Marketable yield: 66.6 ton/acre (3<sup>rd</sup> largest in trial)
- Unmarketable: 0.0%
  - Large Splits: 0.0%
  - Small Splits: 0.0%
  - Rots: 0.0%
  - Offs: 1.2%
Moreton (Reeds): Sept 24

- Shape: FR
  - Roundness = 4.8
- Internal Color: YW (8th)
- Core length: 3.8 in
- % Tip Burn: 0.0
- % Split Core: 0.0
- Dry wt: 7.1%
- Thrips:
  - depth = 3.1
  - severity = 1.2
- Comments:
  - Thick leaves
  - Air Spaces Beside Core
Moreton (Reeds): Oct 8

- Plant size: VL (3rd)
- Uniformity: G-VG (15th)
- Growth habit: U-ST (6th)
- Head weight: 14.4 lbs (3rd largest in trial)
- Marketable yield: 75.1 ton/acre (3rd largest in trial)
- Unmarketable: 0.0%
  - Large Splits: 0.0%
  - Small Splits: 0.0%
  - Rots: 0.0%
  - Offs: 1.2%
Moreton (Reeds): Oct 8

- Shape: FR
  - Roundness = 4.8
- Internal Color: YW (8th)
- Core length: 3.8 in
- % Tip Burn: 0.0
- % Split Core: 0.0
- Dry wt: 8.0%
- Thrips:
  - depth = 4.1
  - severity = 1.2
- Comments:
  - Thick leaves
  - Air Spaces Beside Core