

Processor Sugary Sweet Corn Crop Guide



syngenta



Market leading sweet corns from ROGERS®



GH2171

Agronomic Features

- Second early; strong disease package
- Strong plant standability
- HR: Common rust; IR: Northern corn leaf blight / Maize dwarf mosaic;

Processor Features

- Great processed cob corn
- Very good tenderness and high sugars

Management Suggestions

- Performs well in the Midwest/ Northeast in early June plantings



GH4927

Agronomic Features

- Improved standability over GH2042; very high yield for its maturity class; strong early vigor; Poast herbicide tolerance

Processor Features

- Good for cut, cob and cobette; features attractive, medium-sized cut kernels with good color

Management Suggestions

- A new GH2042 type with improved standability; manage similar to GH2042



Rocker

Agronomic Features

- Strong roots and stalks to minimize lodging; tolerant to Poast herbicide

Processor Features

- Outstanding quality in late summer; holds well in field for cream style processing; uniform ear size; quality consistent with GH2547 market demand

Management Suggestions

- Adjust planting populations downward for later planting dates; best results when used in mid to mid-late slot



Bonus

Agronomic Features

- Broad spectrum multiple disease resistance; highly resistant to plant lodging; agronomically sound; widely adapted

Processor Features

- Uniform ear size, shape, and style; consistent kernel depth resulting in high case recovery; traditional medium dark color

Management Suggestions

- Monitor new rust and spray when appropriate; performs well relative to other hybrids in stressful environments



Elite

Agronomic Features

- Good husk protection
- Late-season maturity
- HR: Common rust; IR: Common rust / Maize dwarf mosaic

Processor Features

- Petite kernels with high case recovery
- Suited for frozen or canned product

Management Suggestions

- Well-adapted for the Pacific Northwest
- Performs best in mid-season



GH 9597

Agronomic Features

- Both Rp1-d and Rp1-g genes for resistance to common rust; strong overall disease package; superior resistance to root and stalk lodging

Processor Features

- Consistent yield and recovery; uniform ear size for high plant efficiency; desirable, consistent color

Management Suggestions

- Performs well when placed in stressful growing environments; strong disease package; manage like Bonus but use where new rust protection is needed



GH6462

Agronomic Features

- Multiple disease resistance package; good husk cover

Processor Features

- Superior yields with outstanding case recovery; versatile hybrid suitable for cut, cob, or cobette; medium-sized cut kernels; good color

Management Suggestions

- Has performed well in comparison to other su varieties in the 81 to 85 day slot; good performance at traditional seeding rates; may respond negatively to high plant populations



Poast® herbicide tolerance

Cahill

Agronomic Features

- Earliest available maturity in su with Rp1-g rust gene; good roots and strong stalks; Poast herbicide tolerant

Processor Features

- Exceptional quality; deep kernels; high recovery; superior color; straight rowing for high percentage of cobettes

Management Suggestions

- Fits well into early and mid planting slots or gaps; high sugar content may require special management



GH 1703

Agronomic Features

- Good ear height for early maturity; good standability

Processor Features

- High yield; Good quality with high sugar; excellent cob corn quality; not recommended for No. 10 cans

Management Suggestions

- Standard for second early planting slot



Poast® herbicide tolerance

WH1428P

Agronomic Features

- Full season white variety; well rounded disease package; Poast herbicide tolerant; new rust resistance

Processor Features

- Deep kernel depth for high recovery; excellent kernel color

Management Suggestions

- Maintain isolation to avoid cross pollination; monitor new rust strains



Early Cogent

Agronomic Features

- Late-season variety

Processor Features

- Shoepeg class

Management Suggestions

- Monitor disease pressure and spray as needed

Technical data: sweet corn

| Variety | Type | Kernel color | Approx. days to maturity | Avg ear length (in) | Avg. ear diameter (in) | Avg. row count | Avg. heat units (°F/°C) | Avg. kernel depth (mm) | Poast® herbicide tolerant | Disease resistance* |
|------------------------------|------|--------------|--------------------------|---------------------|------------------------|----------------|-------------------------|------------------------|---------------------------|---|
| SUGARY | | | | | | | | | | |
| Cahill | su | Yellow | 73 | 8 | 1.9 | 16-18 | 1528 °F 831 °C | 11-12 | yes | HR: Ps: (Rp1-g) |
| GH 1703 | su | Yellow | 73 | 8.5 | 1.9 | 14-18 | 1528 °F 831 °C | 12 | – | |
| GH4927 | su | Yellow | 75 | 8.5 | 1.9 | 16-20 | 2828 °F 1553 °C | 11-12 | yes | HR: Ps: (Rp1-i) IR: Bm / Pp |
| GH2171 <small>New</small> | su | Yellow | 74 | 8 | 1.9 | 16-18 | 1550 °F 843 °C | 12 | yes | HR: Ps: (Rp1-g) IR: Et / MDMV |
| Bonus | su | Yellow | 83 | 8 | 1.8 | 18-20 | 1717 °F 936 °C | 12 | – | HR: Ps: (Rp1-d) / Pst / MDMV IR: Et / Ps |
| GH6462 | su | Yellow | 83 | 8.2 | 1.8 | 18-20 | 3150 °F 1732 °C | 12 | – | HR: Ps: (Rp1-d), Ps (Rp1-g) IR: Bm / Et / Pst / MDMV |
| GH 9597 | su | Yellow | 83 | 8 | 1.8 | 18-20 | 1746 °F 952 °C | 11 | – | HR: Ps (Rp1-d,g) / Pst/MDMV IR: Et |
| Elite | su | Yellow | 85 | 9.5 | 1.9 | 20 | 1760 °F 960 C | 11 | – | HR: Ps: (Rp1-d) IR: Ps / MDMV |
| Rocker | su | Yellow | 85 | 8.5 | 1.9 | 18-20 | 3227 °F 1775 °C | 11 | yes | HR: Bm / Ps: (Rp1-d), Ps (Rp1-g) / MDMV IR: Pp |
| WH1428P | su | White | 84 | 8.2 | 1.9 | 18-20 | 1767 °F 964 °C | 13 | yes | HR: Bm / Ps: (Rp1-d), Ps (Rp1-i) IR: Et / Pst |
| Early Cogent | su | White | 89 | 8.5 | 2 | N/A | 1838 °F 1003 °C | 13 | – | |
| Jubilee | su | Yellow | 81 | 8.5 | 1.8 | 16 | 1703 °F 928 °C | 11 | – | IR: Bm / Ps |

Disease abbreviation key

| | | | | | |
|------------|-------------------------|-------------|---|------------|--|
| se | Sugary enhanced | Bm | Southern corn leaf blight caused by <i>Bipolaris maydis</i> (= <i>Helminthosporium maydis</i>) | Ps | Common rust caused by <i>Puccinia sorghi</i> (Rp1-d, e, g, i) controlled by the Rp1-d, e, g, and i genes (see *footnote below) |
| sh2 | Supersweet | Et | Northern corn leaf blight caused by <i>Exserohilum turcicum</i> (= <i>Helminthosporium turcicum</i>) | Pst | Stewart's wilt caused by <i>Pantoea stewartii</i> (= <i>Erwinia stewartii</i>) |
| su | Sugary | MDMV | <i>Maize dwarf mosaic virus</i> | | |
| HR | High resistance | | | | |
| IR | Intermediate resistance | | | | |

*Footnote to Sweet Corn: The Rp1-d, Rp1-e, Rp1-g and Rp1-i genes confer resistance to certain races of common rust, including all races typically found in North America through 1998. However, in 1999, common rust pustules were found on varieties containing the Rp1-d gene. This is an indication that there is a new race of common rust, which is not controlled by the Rp1-d gene. Researchers have found this new race in most corn growing areas of North America. In 2001, common rust pustules were also found on varieties that contain the Rp1-g, Rp1-e gene and varieties that contain the Rp1-i gene. This is an indication that there is more than one new race of common rust in the environment. The common rust races identified in 2001 were not controlled by any of the single genes Rp1-d, Rp1-e, Rp1-g or Rp1-i. The effectiveness of rust genes in sweet corn will be determined by the variation of common rust races in each growing area.

In cases where specific races or strains are not noted, the variety is resistant to some, but not necessarily all known races or strains of the pathogen. For complete disease resistance information, please visit ROGERSDiseaseCodes.com

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