Sweet Corn
PROCESSOR MARKET CROP GUIDE
Committed to Excellence
from the field to the table

We are committed to helping growers get the most from their crops, both now and for generations to come. Partnering with our customers every step of the way, we offer advanced, innovative solutions that provide growers with the tools they need in the field to ultimately put the food on the table. After all, our job is about helping customers deliver high-quality, nutritious vegetables to the market. We leverage our rich history in the industry, strong presence in the market and significant investment in the future of agriculture to help you do just that.

Partnering for Success

Our roots in the vegetable industry run deep, tracing back to 1876 with the establishment of ROGERS® brand seed. For more than 130 years, we have worked boot-to-boot with our vegetable customers to provide a truly cutting edge, individualized approach to solution building. Our integrated portfolio of seed, traits, seed care and crop protection products support your crop at each stage of development, from seed to harvest, and each stage of the market, from packer to plate.

Addressing Whole-farm Challenges

We believe that, to be successful, sustainable agriculture metrics must be integrated into day-to-day operations and decision-making, and that the value of doing this must exceed the cost. Through our AgriEdge Excelsior® program, we’re providing growers with data-rich, whole-farm management tools that help them make agronomically sound decisions, operate more efficiently and meet sustainable sourcing demands.
Innovating for the Future

Backed by global resources and a daily investment of more than $3 million in research and development, we bring to market innovative, integrated solutions that help ensure your high-value vegetable crops reach their full genetic potential. Our state-of-the-art research facilities located across the U.S. are incubators for innovation in the field and in the marketplace, helping to ensure that we’re providing growers with the tools they need to put food on the table.

Pasco Seed Processing Facility
This 40-acre, 200,000 square foot state-of-the-art facility processes both large-seeded and small-seeded vegetables. It houses a unique, two-pass drying system that most closely resembles natural drying in the field. Seed is stored within optimal parameters of temperature and humidity, ensuring a consistent supply of high-quality seed.

Vero Beach Research Center
This industry-leading facility combines the latest technologies with practical, hands-on field testing. The 12-month growing season allows scientists to generate multiple seasons of field data per year.

Woodland Research Station
This station serves as a hub for cereal, corn, cucurbit and fruiting vegetable research in the California Central Valley and is home to the Syngenta Cucurbit Research Center of Excellence.

Naples Research Station
This station lies just south of the frost line in Florida, allowing two generations per year of most crops. It includes more than 100 open-field acres and contains more than 60,000 square feet of greenhouse space, as well as controlled growth environments and laboratories.

Supporting the Industry

Our commitment to customer satisfaction extends beyond solutions, service, and support – it’s an investment in the future success of the industry as well. We are proud to work closely with industry organizations, such as the American Seed Trade Association (ASTA), California Association of Pest Control Advisers (CAPCA), Produce for Better Health, Produce Marketing Association and United Fresh Produce Association, as an advocate for sustainable vegetable production and consumption.
Superior supersweets: proven performance and yields

GSS1477
Among supersweets, GSS1477 leads the industry for yield and recovery. It stands out for its superior consumer appeal for both canned and frozen sweet corn.

- Excellent emergence; good husk cover; well-rounded disease package
- Market-leading yield and recovery
- Versatile hybrid suitable for cut, cob or cobette; deep kernels throughout season
- Well suited for all planting slots
- Finishes strong late in season relative to other hybrids

GSS3071
- Long ear ideal for processing
- Market-leading yield and recovery
- Supersweet flavor and excellent kernel color for strong consumer appeal
- Widely adapted for a variety of growing conditions
- Finishes strong late in the season relative to other varieties

GSS3951
A main-season supersweet variety, GSS3951 offers improved tolerance to stress conditions to help ensure high yield and recovery. With ideal supersweet kernels and good eating quality, GSS3951 provides excellent consumer appeal.

- Premium supersweet variety with large kernels
- Performs well in high stress tolerant conditions
- Balance of sweet and natural corn flavors

GSS1453
- Full-season, yellow supersweet hybrid
- Industry-leading disease resistance package
- Good husk coverage to protect ear quality
- Heavy leaf canopy limits weed growth
- Long, big ears with average length more than 8 inches
- High yield and case recovery
Protégé
Protégé is ideal for all processor regions, including organic, with improved rust resistance and abundant yield production of desired quality and color with excellent rowing for cob and cobette.

- Strong roots/stalks to resist lodging
- Outstanding early vigor
- Superior multiple disease package
- Consistent high yield throughout season
- Replaces GSS9299

SS Jubilee Plus
- Industry standard for high consumer appeal
- Versatile product for canned, frozen, cob/cobette and dehydrated powder
- Wide range of plant populations; can double ear at lower plant populations;
- Consistent high yield
- Excellent yield and recovery
- Plant in optimum conditions; monitor disease and control as necessary

GSS7877
A yellow supersweet hybrid that produces consistent, abundant yields. It offers strong northern corn leaf blight resistance and husk protection to maximize yields and quality.

- Good seedling vigor; excellent husk cover to protect ear
- Develops kernel depth slowly; monitor for optimum harvest timing

Overland
- Heavy leaf canopy limits weed growth
- High yield and case recovery
- Acceptable quality for both canned and frozen
- High row count with 8.5-inch ear
**BSS8040**
With high yields and well-filled ears, BSS8040 has good color contrast, excellent consumer appeal and is well-suited for the processor market.

- Well-filled, attractive ears with good color contrast
- Excellent disease package
- Strong performer with consistently high yields

**WSS 3681**
- SS Jubilee-type quality in white sh2
- Widely adapted; performs well across plant populations
- Plant in optimum conditions; monitor disease and control as necessary

**GSS0951**
- Protégé type with added benefit of Attribute insect protection and herbicide tolerance
- Consistent high yields
- Produces quality canned whole kernel and frozen whole kernel
- Good disease package
- Strong roots/stalks to resist lodging
- Widely adapted for variety of growing conditions

**GSS0952**
- Built-in insect protection to maximize yields and profitability
- Herbicide tolerance allows for flexibility in weed management
- Well-filled cylindrical ears with very good tip fill and kernel depth
- Widely adapted and can be planted throughout the season

**Heavenly**
- Consistent yields
- High-quality finished product
- Desirable processor color
- Medium-deep kernels
- Plant at higher populations to reduce tillers
Best in the sugary class: yield, disease and traits

GH6462
- Superior yields with outstanding case recovery
- Versatile hybrid suitable for cut, cob or cobette

GH6462 is a high yielding sweet corn variety that combines a strong disease resistance package with ideal late maturity and versatile processing characteristics.

GH4927
- Industry standard for second-early sugary types
- Very high yield for its maturity class; strong early vigor
- Poast herbicide tolerance
- Excellent for cut, cob and cobette; features attractive, medium-sized cut kernels with great consumer appeal

GH4927 starts strong and finishes strong with top-performing yields and consistent recovery, plus it features variety of qualities for the processing market.

Key benefits to using Poast Protected sweet corn
- High level of crop safety
- Controls wild proso millet and many other difficult-to-control grassy weeds
- Only Poast Protected sweet corn can tolerate the application of Poast herbicide

GH3333
- Great disease package in a high-quality hybrid
- Sturdy clean plant
- Highest level cob and kernel quality with good color
- Holds tenderness for the longest of any sugary hybrid

GH3333 starts strong and finishes strong with top-performing yields and consistent recovery, plus it features variety of qualities for the processing market.

GH4927
- Industry standard for second-early sugary types
- Very high yield for its maturity class; strong early vigor
- Poast herbicide tolerance
- Excellent for cut, cob and cobette; features attractive, medium-sized cut kernels with great consumer appeal
GH 9597
GH 9597 is a strong performer even in stressful growing conditions with excellent resistance to rust and other yield-robbing diseases.
- Both Rp1-d and Rp1-g genes for resistance to common rust
- Strong overall disease package
- Superior resistance to root and stalk lodging
- Consistent yield and recovery

Early Cogent
- The shoepeg class industry standard
- Late-season variety
- Monitor disease pressure and spray as needed

WH1428P
WH1428P is the new standard for white sugary sweet corn. This excellent, full-season variety also includes a well-rounded disease resistance package and Poast® herbicide tolerance.
- A WH2801 replacement with Poast herbicide tolerance and rust resistance
- An excellent performing full-season white variety
- Well-rounded disease package

Rocker
- Strong roots and stalks to minimize lodging; tolerant to Poast herbicide
- Outstanding quality in late summer; holds well in field for cream-style processing; uniform ear size
- Adjust planting populations downward for later planting dates; best results when used in mid to mid-late slot
Yield Accelerator Paves Way for Sweet Corn Advancement

Located in Stanton, Minn., the Syngenta Yield Accelerator is a small-scale, state of the art yield, recovery and sample processing facility that integrates automation, weighing, husking, cutting and canning/freezing technologies. The facility can screen up to 18,000 samples per season with analysis conducted at each step, evaluating everything from ear diameter to moisture to taste.

This industry-leading, globally-funded initiative shifts the Syngenta sweet corn breeding program focus from predominately agronomic traits to a wider, more intense analysis of genetics in order to reach maximum processing yield potential. The research and work being done at the Yield Accelerator will benefit both the grower and processor by increasing both green yield and recovery, which will ultimately mean more cases per ton.

Focused Innovation to Meet Grower Needs

Attribute® trait stack delivers built-in, season-long protection against European corn borer, corn earworm and other target pests, reducing ear damage and yield loss while also reducing dependency on insecticides. With tolerance to Liberty® herbicide, Attribute varieties also offers greater flexibility in weed management to help ensure control of problem weeds.

The Attribute® II trait stack continues the Syngenta tradition of providing high performance traits to sweet corn growers, and now it has the added power of Vip3A – a unique mode of action proprietary to Syngenta. The combination of Vip3A with Cry1Ab, the protein found in Attribute sweet corn varieties, offers excellent control of key yield-robbing insects including European corn borer, corn earworm and fall armyworm and Western bean cutworm.

Powered by mesotrione, an HPPD mode of action and the foundation of Callisto Plant Technology®, Callisto® herbicide delivers unmatched contact and residual control of the toughest broadleaf weeds, flexible application timing and excellent crop safety.

Syngenta is committed to helping you produce the highest-quality crop possible, delivering advanced, integrated solutions that combine our industry-leading seed, trait, seedcare and crop protection offerings.

Cruiser® seed treatment insecticide offers growers immediate protection against early-season insects. Thiamethoxam, the active ingredient in Cruiser, helps to improve plant stands and can help maximize yield potential. Delivered on-the-seed, Cruiser offers a convenient way to get crops off to a successful start.

Besiege® foliar insecticide combines two active ingredients in a convenient, economical premix formulation to provide fast knockdown and long-lasting residual activity on key lepidopteran pests, as well as effective control of multiple stink bug species. Besiege delivers consistent, high-level control in vegetable crops, including those with emerging pyrethroid resistance.

Quilt Xcel® fungicide elevates sweet corn to its full yield potential by shielding plants from stress. With Quilt Xcel, plants are able to counteract conditions of too little or too much water while maximizing the sun’s energy for extended grain fill. Quilt Xcel provides preventive and curative disease control and the systemic xylem mobility of its active ingredient provides uniform disease control throughout the plant, even to new growth.
## Technical data: sweet corn

<table>
<thead>
<tr>
<th>Variety</th>
<th>Type</th>
<th>Kernel color</th>
<th>Approximate days to maturity</th>
<th>Average ear length x diameter</th>
<th>Average row count</th>
<th>Average kernel depth (mm)</th>
<th>Poast herbicide tolerance</th>
<th>Disease resistance*</th>
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<tbody>
<tr>
<td>SUPERSWEET</td>
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<td>Yellow</td>
<td>79</td>
<td>8.5 x 1.9</td>
<td>16-18</td>
<td>12</td>
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<td>IR: Bm / Et / Pst</td>
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</tbody>
</table>
Technical data: sweet corn

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<th>Disease resistance*</th>
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<td>GH 9597</td>
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</table>

Disease abbreviation key

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

*Footnote to sweet corn: the effectiveness of rust resistance genes in sweet corn will be determined by the variation of common rust races in each growing environment. Rust races are continually evolving, so that rust resistance genes that were effective in the past may suddenly and unexpectedly lose their effectiveness. It is necessary to scout for rust disease development, so that alternative disease control strategies can be deployed in the event that major gene resistance proves ineffective. Syngenta Seeds is an associate member of the International Seed Federation and supports the initiative to use consistent terminology to describe plant diseases and resistance. For further information, see http://www.worldseed.org/isf/diseases_resistance.html.

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 www.vegetables.syngenta-us.com.
For more information on Syngenta vegetable offerings, visit www.SyngentaUS.com/vegetables or contact your local Syngenta reseller or representative.