

A close-up photograph of several green beans, showing their characteristic shape and texture. The beans are arranged in a slightly overlapping, diagonal pattern. The background is a solid, vibrant green color with a subtle, curved graphic element on the right side.

syngenta[®]

Bean

PROCESSOR MARKET CROP GUIDE

TM

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



Field to Market

We understand that your challenges extend far beyond the field, and collaborate with industry partners to provide whole-farm service and support. Through programs like AgriEdge Excelsior®, we provide growers with record-keeping tools designed to improve business practices and assist them in meeting supply chain requirements and satisfying consumer preferences. As an active member of Field to Market®, the alliance for sustainable agriculture, we collaborate with fellow industry leaders to address the challenge of putting enough food on the table to meet the needs of our rapidly growing population—both today and well into the future.

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

Undergoing a major expansion to enhance R&D and seed production capabilities, this station serves as a hub for cereal, corn, cucurbit and fruiting vegetable research in the California Central Valley.



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.



Industry-leading breeding and traits



Huntington

Huntington is a high-yielding processor variety with upright plant habit for concentrated production and good disease resistance that produces long, slender, medium-dark pods.

- Industry-leading yields
- Improved, upright bush type; has performed well when exposed to Midwest virus complex
- Smooth, straight pods; stable yield; Blue Lake type
- Generally shows varying levels of leaf chlorosis close to harvest
- Responds well to high inputs



Pismo

- Produces long, slender, medium-dark pods
- Huntington type with similar disease resistance and slightly more 4 sieve pods
- High-yielding variety with upright plant habit for concentrated production
- Performs well when exposed to Midwest virus complex
- Responds well to high inputs



Stayton

- Good seed quality; upright plant type holds pods off soil surface; consistent, uniform pod set; good heat tolerance
- Two- to three-sieve pods with uniform color
- Superb yield within sieve group; high-quality pods for freezing
- Excellent pod finesse; monitor seed development for optimal harvest timing



Carson

- Excellent disease package; high-yielding wax bean
- Uniform yellow color pod; high quality, smooth pods; high percentage of refined four-sieve pods
- Widely adapted



Masai

- Upright bush that holds pods away from soil surface; strong disease resistance profile; fine sieve type with excellent yield
- Premium-quality, fine sieve bean
- Uniform pod color and length are easy to process; tender, flavorful pods
- Best performance under irrigated conditions; responds in yield to best management practices



Furano

Furano combines a number of strong agronomic features to produce excellent flavor and pod quality, putting it on track to become the new market leader in Romano beans.

- Standard for Romano-type beans
- Exceptional eating quality enhanced by low fiber
- Upright bush habit for ease of harvest of its flavorful beans
- Widely adapted to major garden bean growing areas



Technical data: garden bean

Variety	Approximate days to maturity	Average pod length (in)	Average sieve size	Sieve size distribution	Pod color	Disease resistance
GARDEN BEAN						
Carson	53	5.5	3.5-4	1-3 sieve=30%; 4 sieve=60%; 5 sieve=10%	Yellow	HR: BCMV / Cl: 1 IR: Pss
Furano	54	6	Flat	N/A (flat bean)	Medium green	HR: BCMV
Hayden	54	6	5	1-3 sieve=10%; 4 sieve=40%; 5 sieve=50%	Medium-dark green	HR: BCMV
Pismo	55	5.5	4.4	1-3 sieve=15%; 4 sieve=35%; 5 sieve=50%	Medium-green	HR: BCMV IR: Pss
Stayton	55	5	2-3	1-3 sieve=100%	Medium-dark green	HR: BCMV IR: Pss
Bush Blue Lake 156	56	5.9	5	1-3 sieve=10%; 4 sieve=50%; 5 sieve=40%	Medium green	HR: BCMV
Huntington	56	5.5	5	1-3 sieve=15%; 4 sieve=30%; 5 sieve=55%	Medium-dark green	HR: BCMV IR: Pss
Masai	57	4	2-3	1-3 sieve=100%	Medium green	HR: BCMV / Psp: 1, 2 IR: BCTV / Pss
Pierroton	57	4.3	1-2	1 sieve=70%; 2 sieve=30%	Medium-dark green	HR: BCMV / Cl: 1 / Psp: 1, 2
Redon	58	4.7	2	1-3 sieve=100%	Light-medium green	HR: BCMV / Cl: 1 / Psp: 1-2 IR: Pss

Disease abbreviation key

BCMV	Bean common mosaic virus	Psp	Halo blight caused by <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i>	HR	High resistance
BCTV	Curly top caused by beet curly top virus	Pss	Bacterial brown spot caused by <i>Pseudomonas syringae</i> pv. <i>syringae</i>	IR	Intermediate resistance
Cl	Anthraxnose caused by <i>Colletotrichum lindemuthianum</i>				

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.

Powerful Portfolio of Proven Protectors

Syngenta offers a broad portfolio of crop protection products and seed treatments to help growers maximize crop potential.



Cruiser® seed treatment insecticide provides immediate protection against early-season insects to improve plant stands and 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.



Dual Magnum® herbicide is powerful chemistry that provides excellent control of grasses and small-seeded broadleaf weeds.



Quadris® fungicide offers optimal disease control to help vegetable growers maximize return on investment. It is broad-spectrum and provides complete plant protection with its xylem-mobile systemic activity. Quadris also enables crops to utilize resources like air, water and nutrients more efficiently.



Uniform® fungicide, a premix formulation of Quadris® and Ridomil Gold®, provides systemic and protectant control of yield-robbing diseases including *Pythium* and *Rhizoctonia*. Uniform controls all three phases of disease — seed rot, pre-emergent seedling rot, and post-emergent damping-off.

For fields with high to severe disease pressure, recurrent disease pressure, or replanting history, Uniform can help establish a healthy and consistent stand, helping to deliver a positive return on investment.



Reflex® is a selective herbicide offering pre- and post-emergence control of difficult weeds, including glyphosate-resistant Palmer pigweed and ALS-resistant pigweed, grasses and sedges. With its fast, effective weed control and long-lasting residual activity, Reflex helps keep fields cleaner, longer.





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

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Besiege is a Restricted Use Pesticide.

Besiege is highly toxic to bees exposed to direct treatment on blooming crops and weeds. Do not apply this product or allow it to drift onto blooming plants while bees are foraging adjacent to the treatment area.

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