At Syngenta Vegetable Seeds, we are dedicated to supporting our customers and partners around the world in this unique and complex industry. Our rich history in the vegetable seeds industry, strong presence in the market, and significant investment in the future of agriculture enables us to deliver high-quality vegetables all year round.

**LEADERSHIP**

Syngenta has more than **150 YEARS** of heritage in the **global vegetable seeds market** with roots dating back to 1867.

Our strong portfolio of more than **2,500 VARIETIES** in **30 CROP SPECIES** makes us the **partner of choice** for thousands of growers around the world.

Syngenta is a **global market leader in seed production for:**

- Watermelon
- Cauliflower
- Squash
- Sweet Corn
- Brussels Sprouts
- Tomato Specialties

**INNOVATION**

We **drive innovation** to improve flavor, quality, convenience, and productivity for the benefit of growers, marketers, retailers, and consumers.
Growers continue to look for higher yields, more comprehensive disease resistance packages, adaptability, and flexibility. At Syngenta, we invest heavily in research and development to ensure we meet the present and future needs of our growers and partners.

**INVESTMENT**

- **230** NEW VARIETIES launched globally every year
- **$101.7M** INVESTMENT in global R&D in 2019
- **$4M** RECONSTRUCTION of hurricane-damaged facilities in Naples, Florida
- **$4M** EXPANSION of R&D and seed production site in Woodland, California

**LEADING THE WAY IN THE AMERICAS**

We maintain research sites across the Americas, to help growers in different geographies get exactly what they need.

- **Othello, WA**
- **Pasco, WA**
- **Nampa, ID**
- **Plainfield, WI**
- **Woodland, CA**
- **Gilroy, CA**
- **Culiacan, Mexico**
- **Naples, FL**
- **Jalapa, Guatemala**

Strategic location in the market makes this one of the main production areas in protected agriculture PGH and open field.

The Syngenta Yield Accelerator is paving the way for processing sweet corn advancement.

Home to the Syngenta Global Cucurbits Center of Excellence and hub for corn, cucurbit and fruiting vegetable research.

A key market research site for sweet corn, tomato, and pepper breeding. Critical site for many field disease screens.

**Acquisition of Abbott & Cobb seed company in 2018 increased Syngenta’s ability to innovate and further enhance offer to growers**

**Full Count** transplant program revolutionized watermelon production, with more than one billion plants sold as of 2019

*These are shared R&D vegetable seed sites*
Accolade
Accolade is an eastern shipper variety that features improved fruit quality and a comprehensive disease resistance package for early to main season plantings.

- Tight seed cavity with firm, orange flesh
- Medium netted exterior
- Enhanced vine strength
- Bred for resistance to cotton aphid
- Improved internal fruit quality for extended shelf life
- Strong and vigorous plant to stand up to field stress and resist fruit cracking

Astound
Astound is an eastern shipper variety that features improved flesh firmness, a tighter seed cavity and an enhanced disease resistance package for main to late season plantings.

- Firm, orange flesh with a small, tight cavity
- High quality, netted appearance
- Enhanced vine strength
- Bred for resistance to cotton aphid
- Improved internal fruit quality and flesh firmness for extended shelf life
- Strong and vigorous plant to stand up to field stress and resist fruit cracking
Athena

The melon of choice for the eastern U.S., Athena is an innovative hybrid cantaloupe that delivers the sweet flavor and texture consumers demand. Athena melons stay firm even when harvested at full slip.

- Industry standard
- Proven performance in all major eastern melon production areas
- The name “Athena” is recognized by the broker through to the consumer
- High-quality and flavor that has set the market standard
- Average fruit weight 5 to 6 pounds
- Approximately 75 days to maturity

Aphrodite

Aphrodite delivers an improved fruit netting in a larger-sized melon, while offering early maturity that secures an early jump on the market.

- Early-maturing Athena type
- Larger fruit size
- Improved fruit net
- Has done well in Midwest plantings
- Average fruit weight 6 to 7 pounds
- Approximately 72 days to maturity
Bringing new innovation to the West

Sweet Sunrise
Sweet Sunrise is a long shelf life variety that produces fruit of desirable size and consistent quality with excellent flavor. Its enhanced disease resistance package and vigorous plant make Sweet Sunrise an ideal variety for early planting slots.

- Small, closed cavity
- Orange flesh with firm texture
- Very dense netting
- Vigorous plant
- Enhanced disease resistance package
- Bred for resistance to cotton aphid
- Extended shelf life to meet market needs
- Excels in earlier planting slots

Sweet Spring
Sweet Spring is a long shelf life Harper type variety that produces round fruit with dense netting, a tight seed cavity and dark orange flesh. This variety features a significantly enhanced disease resistance package and offers improved fruit quality.

- Dark orange, firm flesh with unique flavor profile
- Small, closed cavity and strong, dense netting
- Enhanced disease resistance package
- Improved fruit quality for high consumer appeal
- Extended shelf life that meets market needs
- Reduced waste due to less shrinkage in storage
Gold Crown

A western shipper variety poised to perform well in the San Joaquin Valley, Gold Crown is an early- to main-season variety for the March to April sowing window. Its consistent fruit shape and large fruit size make this a desirable variety for growers and packers, while its firmer flesh, sweet taste and longer shelf life are sure to attract consumers.

- Firm, dark orange flesh
- Good sugar development with shipper taste
- Slightly oval fruit with very dense netting
- Excellent disease resistance package
- Maintains superb fruit quality and freshness for long shelf life
- Early- to main-season variety allows for early market opportunities

Gold Express

High-performing hybrid that stands up to variable growing conditions and delivers abundant fruit with excellent eating qualities.

- An ideal western shipper that produces medium to large fruit
- Excellent flavor and internal quality, featuring a tight seed cavity and firm, dark-orange flesh
- Superior appearance enhanced by a dense net covering the exterior
- Designed for prolonged harvest conditions
- Performs well in late spring and fall plantings in the Desert Southwest
- Provides growers in the San Joaquin Valley a main-season variety with improved fruit size
Novira

Novira is a Harper type melon variety producing round to oval fruits of nice quality and dense netting on the exterior. This variety is well suited to fall planting slots in the Desert Southwest region.

- Dark orange, firm flesh
- Strong plant vigor
- Excellent eating quality
- Good disease resistance package
- Extended shelf life
- Intermediate resistance to cucurbit yellow stunting disorder virus (CYSDV)

Sweet Shield

Sweet Shield is a Harper type melon variety producing good quality fruits for the fall market. Fruits have striking dark orange flesh and dense netting.

- Dark orange flesh with a tight seed cavity
- Dense netting on fruit
- Strong disease resistance package
- Concentrated fruit harvest
- Ideal for early fall production in Desert Southwest region
- Intermediate resistance to cucurbit yellow stunting disorder virus (CYSDV)
Garth

Garth is an extended shelf life melon variety that produces round to oval fruits with tight netting on the exterior. Fruits have excellent eating quality and attractive dark orange flesh.

- Round to oval fruits with dense netting
- Tight seed cavity and dark orange flesh
- Good flesh firmness for extended shelf life
- High marketable fruit yield potential
- Suitable for early planting slots in Desert Southwest region

Desert Express

Desert Express is an extended shelf life variety that produces round to oval fruits with a tight seed cavity and dense netting on the exterior. This variety is well suited for early planting slots in the Desert Southwest region.

- Dark orange flesh with excellent eating quality
- Good flesh firmness for extended shelf life
- Good marketable fruit yield potential
- Ideal for production in the Desert Southwest region
## Technical data: melon

<table>
<thead>
<tr>
<th>Variety</th>
<th>Approx. days to maturity</th>
<th>Average fruit length x width (in)</th>
<th>Interior appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MELON: EASTERN SHIPPER</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accolade</td>
<td>73</td>
<td>7.5 x 6.7</td>
<td>Small tight cavity with orange flesh</td>
</tr>
<tr>
<td>Aphrodite</td>
<td>72</td>
<td>7 x 6.5</td>
<td>Thick flesh similar to Athena</td>
</tr>
<tr>
<td>Astound</td>
<td>75</td>
<td>7.5 x 6.7</td>
<td>Small tight cavity with orange flesh</td>
</tr>
<tr>
<td>Athena</td>
<td>75</td>
<td>6.5 x 6</td>
<td>Thick flesh; very firm for an eastern type</td>
</tr>
<tr>
<td><strong>MELON: WESTERN SHIPPER</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Variety Desert Express</td>
<td>100-110</td>
<td>7 x 6</td>
<td>Tight seed cavity with dark orange flesh</td>
</tr>
<tr>
<td>New Variety Garth</td>
<td>100-110</td>
<td>7 x 6</td>
<td>Tight seed cavity with dark orange flesh</td>
</tr>
<tr>
<td>Gold Crown</td>
<td>85</td>
<td>6.2 x 6</td>
<td>Nice orange color, closed cavity</td>
</tr>
<tr>
<td>Gold Express</td>
<td>83</td>
<td>6.1 x 5.9</td>
<td>Dark orange; tight cavity</td>
</tr>
<tr>
<td>Primo</td>
<td>77</td>
<td>7.5 x 7</td>
<td>Thick, medium-dark orange flesh; medium cavity</td>
</tr>
<tr>
<td><strong>MELON: HARPER TYPE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Variety Novira</td>
<td>100-110</td>
<td>7 x 6</td>
<td>Dark orange flesh</td>
</tr>
<tr>
<td>New Variety Sweet Shield</td>
<td>100-110</td>
<td>7 x 6</td>
<td>Small, closed cavity with dark orange flesh</td>
</tr>
<tr>
<td>Sweet Spring</td>
<td>90</td>
<td>7 x 6</td>
<td>Small closed cavity with orange flesh</td>
</tr>
<tr>
<td>Sweet Sunrise</td>
<td>100</td>
<td>7 x 6</td>
<td>Small closed cavity with orange flesh</td>
</tr>
</tbody>
</table>

## Disease abbreviation key

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag</td>
<td>Cotton aphid</td>
</tr>
<tr>
<td>CYSDV</td>
<td>Cucurbit yellow stunting disorder virus</td>
</tr>
<tr>
<td>Fom</td>
<td>Fusarium wilt caused by specific races of Fusarium oxysporum f. sp. melonis</td>
</tr>
<tr>
<td>Gc</td>
<td>Powdery mildew caused by Golovinomyces cichoracearum (e.g., Erysiphe cichoracearum)</td>
</tr>
<tr>
<td>MNSV</td>
<td>Melon necrotic spot caused by melon necrotic spot virus</td>
</tr>
<tr>
<td>Px</td>
<td>Powdery mildew caused by Podosphaera xanthii (ex Sphaerotheca fuliginea)</td>
</tr>
<tr>
<td>S</td>
<td>Sulfur burn caused by the application of some sulfur-based pesticides</td>
</tr>
<tr>
<td>Exterior appearance</td>
<td>Disease resistance</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------</td>
</tr>
</tbody>
</table>
| **Oval, netted**   | **HR**: Px: 1 / Px: 2US / Fom: 0, 1, 2  
**IR**: Ag / Px: 3.5  
**T**: S |
| **Medium-coarse netting, slight suture that is netted** | **HR**: Form: 0, 1, 2 / Px: 1  
**T**: S |
| **Oval, netted**   | **HR**: Px: 1 / Px: 2US / Fom: 0, 1, 2  
**IR**: Ag / Px: 3.5  
**T**: S |
| **Coarse netting; minor, netted indentations** | **HR**: Form: 0-2 / Px: 1, 2US  
**T**: S |
| **Round to oval fruit shape and dense netting** | **HR**: Px: 1 / Px: 2US / Fom: 0, 2  
**T**: S |
| **Round to oval fruit shape and dense netting** | **HR**: Px: 1 / Px: 2US / Fom: 0, 2  
**T**: S |
| **Well netted, slightly oval fruit shape** | **HR**: Form: 0, 2  
**IR**: Px: 1 / Px: 2US  
**T**: S |
| **Ropey, dense netting; sutureless** | **HR**: Form: 0, 2 / Px: 1 / Px: 2US  
**T**: S |
| **Heavy netting; sutureless; slight indentations** | **HR**: Px: 1, 2US  
**T**: S |
| **Round to oval fruit shape and dense netting** | **HR**: Px: 1 / Fom: 0, 1, 2 / MNSV  
**IR**: CYSDV / Px: 3.5 / Ag  
**T**: S |
| **Round to oval fruit shape and dense netting** | **HR**: Px: 1 / Px: 2US / Fom: 0, 1, 2 / MNSV  
**IR**: CYSDV / Px: 3.5 / Ag  
**T**: S |
| **Well netted** | **HR**: Px: 1 / Px: 2US / Fom: 0, 1, 2 / MNSV  
**IR**: Ag / Px: 3.5  
**T**: S |
| **Well netted** | **HR**: Px: 1 / Form: 0, 1, 2 / MNSV  
**IR**: Ag / Px: 3.5  
**T**: S |

**Pathogen races** are indicated to the right of the abbreviation in parentheses [example: Sf (1, 2) = powdery mildew caused by races 1 and 2US of Sphaerotheca fuliginea]. 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.syngentaus.com/vegetables](http://www.syngentaus.com/vegetables).

**HR** | High resistance  
**IR** | Intermediate resistance  
**T** | Tolerance