



Northeast U.S. and Southeast Canada

Onion Portfolio



The sweet taste of strong field performance.

For 150 years, the Seminis® seed heritage has been building a portfolio of unique, great-tasting varieties from around the globe. We are constantly thinking of the next generation of seed, our customers and their families. So while our seeds are bred to produce onions with the shape, pungency and shelf life consumers desire, it all starts with you—our growers.

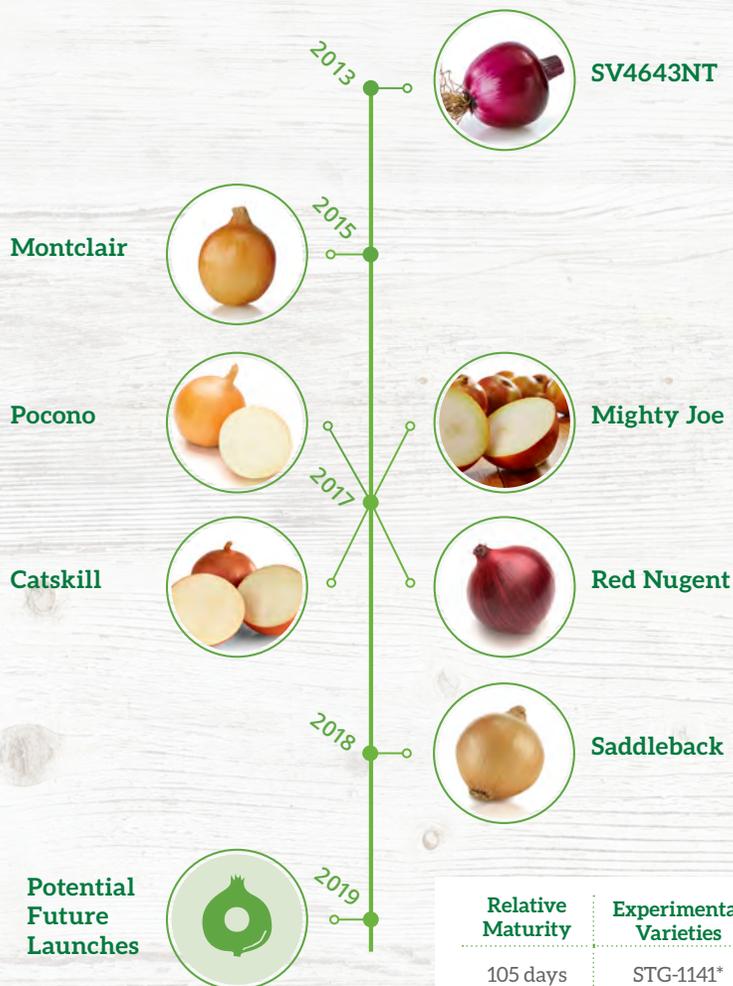
Our international network of breeding scientists uses a variety of advanced tools and technology, including molecular markers and comprehensive sensory studies, to measure product appeal. We also conduct extensive trial studies to ensure the best agronomic traits are passed on to you.

By choosing Seminis seed, you are choosing seed from a company that focuses on developing consistent, reliable varieties that deliver vigorous plants with high yield potential. Of course, the end-consumer will tell you our products taste great, too—for the past 150 years and on to the next.



Onion Timeline

..... 2013 through 2019



Relative Maturity	Experimental Varieties
105 days	STG-1141*
110 days	SVNY0046*
115 days	SVNY0023*

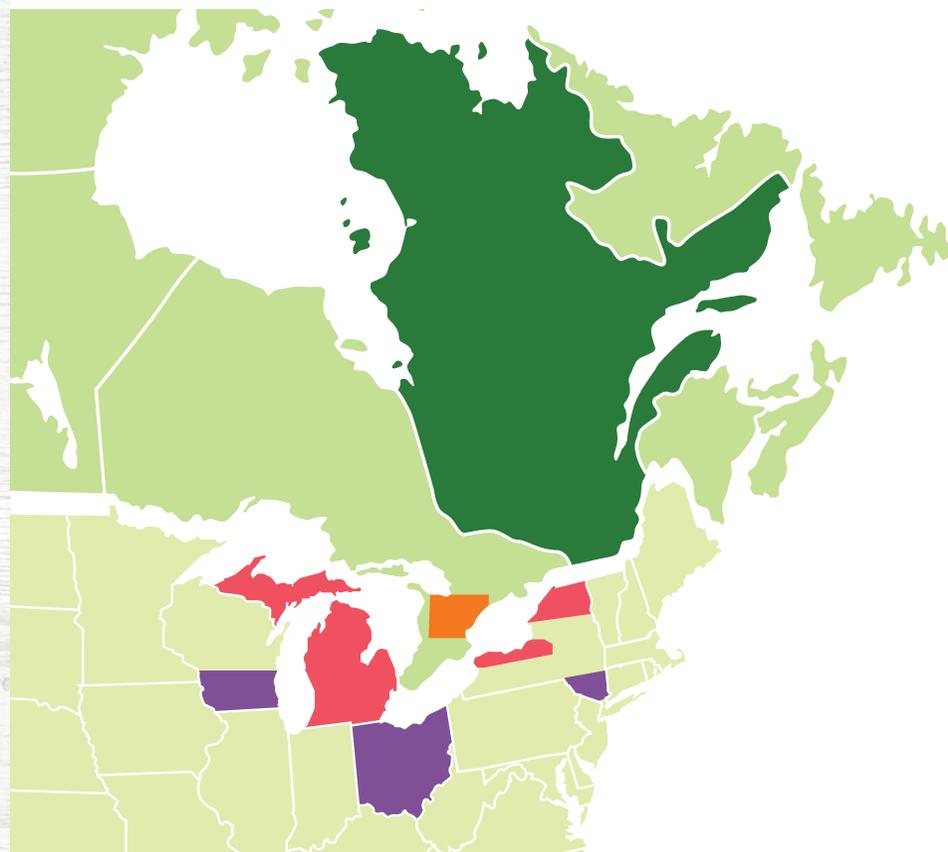
*Experimental designation. Experimental varieties are being described for demonstration purposes only and are not being offered for sale.

Regional Map

..... Product Recommendations

The variety names and number of days to maturity are provided in the key below.

- Catskill (105), Pocono (110), Red Nugent (110), SV4643NT (110), Montclair (115)
- Saddleback (100), Catskill (105), Fortress (110), Pocono (110), Red Nugent (110), SV4643NT (110) Montclair (115)
- Saddleback (100), LaSalle (103), Catskill (105), Pocono (110), Fortress (110), Red Nugent (110), SV4643NT (110)
- Saddleback (100), Catskill (105), LaSalle (103), Fortress (110), Red Nugent (110), SV4643NT (110)





Scott Hendricks

Long Day Globe Onion Breeder

“Consistent packout performance is a key goal. Traits involved are field yield, disease resistance, bolting tolerance, skin retention, firmness and ability to bulk store. With market trends toward salad bars, subs and pizzas, we have increased our germplasm base in long day red onions to ‘catch up’ the red segment, which over the years has received less breeding attention than the yellow segment.”

(Onion Business, “Onions Around the Globe
—Seminis Vegetable Seeds”)



Saddleback

Previously trialed under precommercial designation SVNY2771

- Uniform, round bulbs with good skin retention
- Medium term storage potential
- Relative maturity: 100 days
- Exceptionally strong root system for an early variety
- Good yield potential across a range of production environments

Relative Maturity	Scale Color	Bulb Shape	Size	Storage	Disease Resistance*
100 days	Dark Brown	Globe	Medium-Jumbo	Medium-term, 4-5 months	HR: Pt IR: Foc

We gathered feedback from growers in our pilot program on our new variety, Saddleback, on performance and intent to grow across 11 location in 4 states* in the Eastern U.S. & Canada.

When asked,
“Would you grow again?”

YES	50%
MAYBE	38%
NO	12%

Direct feedback:

“ Saddleback had very uniform shape, nice size, nice color, and high yield potential. ”

—Grower in Ontario



Catskill

Previously trialed under precommercial designation SVNY2824

- Early maturing (105 days) yellow storage onion for the Northeast U.S. and Eastern Canada with good uniformity
- Boasts a strong root system, allowing larger-sized bulbs even on marginal muck soils
- Has a medium to dark skin with good skin retention, neck size and quality out of storage
- High yield potential and adaptability provides growers the flexibility to plant on a wide range of soil types

Relative Maturity	Scale Color	Bulb Shape	Size	Storage	Disease Resistance*
105 days	Brown, Medium-Dark	Globe	Large	Medium-term	HR: Pt IR: Foc

We gathered feedback on Seminis variety Catskill on performance and intent to grow from 12 growers across 5 states and provinces in the U.S and Canada.

When asked,

“Would you buy this variety?”

YES	67%
MAYBE	33%

Direct feedback:

“ The bulbs have dark skins that very nice and pleasing to look at and it just looks good. The roots were well rooted and held to the soil. ”

—Grower in Michigan

“ Big onion with high yield potential. ”

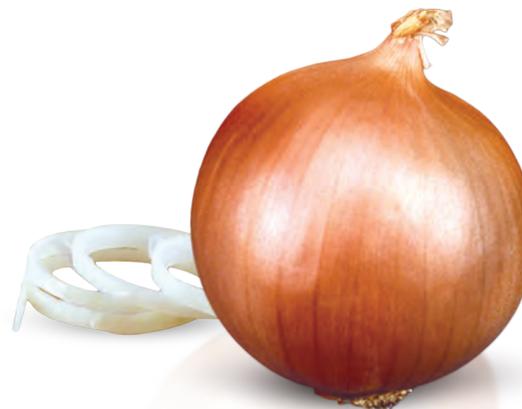
—Grower in Quebec



LaSalle

- LaSalle produces uniform, globe shaped bulbs with small necks and medium to dark skin
- Mid-season maturity with excellent firmness and skin retention out of storage
- More of a round globe shape compared to Hamlet with high yield potential and long term storage potential

Relative Maturity	Scale Color	Bulb Shape	Size	Storage	Disease Resistance*
103 days	Medium-Dark	Globe	Medium	Long-term, 6-7 months	IR: Foc





Pocono

Previously trialed under precommercial designation SV7904NY

- Excellent Quality. Very good uniformity, round bulb with medium-dark skin color, very good skin retention and small neck
- Long-term storage potential with 6-7 month storage, excellent firmness and skin retention out of storage
- High yield potential with medium to large bulb size
- Strong root system

Relative Maturity	Scale Color	Bulb Shape	Size	Storage	Disease Resistance*
110 days	Brown, Medium-Dark	Globe	Medium-Large	Long-term, 6-7 months	HR: Pt IR: Foc

We gathered feedback on Seminis variety Pocono on performance and intent to grow from 7 growers across 4 states and provinces in the U.S and Canada.

When asked,

“Would you buy this variety?”

YES	72%
MAYBE	28%

Direct feedback:

“ Small necks, like the variety for a late onion. ”

—Grower in Nova Scotia

“ Nice necks, bulb this year was a little top-shaped. ”

—Grower in New York



Fortress

- Fortress has a very uniform, round bulb with dark brown skin, small necks, excellent appearance
- Excellent pack out after long-term storage

Relative Maturity	Scale Color	Bulb Shape	Size	Storage	Disease Resistance*
110 days	Dark	Globe	Medium	Long-term, 6-7 months	HR: Pt IR: Foc





Montclair

- Montclair is a popular variety in our long day onion program
- Main season maturity best adapted for long growing season areas in New York, the Midwest U.S. and southern Ontario, Canada
- Produces large, globe shaped bulbs with heavy, dark colored skin and has excellent quality out of storage

Relative Maturity	Scale Color	Bulb Shape	Size	Storage	Disease Resistance*
112 days	Dark	Globe	Medium-Jumbo	Long-term, 6-7 months	HR: Pt IR: Foc



Red Nugent

Previously trialed under precommercial designation SV5671NT

- Mid-season maturing red onion for the Northeast U.S. and Southeast Canada
- Dark red color with large bulb size and excellent quality
- Develops good internal red color at maturity
- Has demonstrated high yield potential in trials in Ontario, Quebec, New York and Wisconsin
- 112 day maturity makes it adaptable for production from transplant or direct seed in all the onion producing regions in Northeast U.S.

Relative Maturity	Scale Color	Bulb Shape	Size	Storage	Disease Resistance*
112 days	Red	Globe	Medium-Jumbo	Medium-term, 5 months	IR: Foc/Pt

We gathered feedback on Seminis variety Red Nugent on performance and intent to grow from 3 growers across New York and Quebec.

When asked,
“Would you buy this variety?”

YES 100%
MAYBE 0%

Direct feedback:

« Nice quality, size potential and color »

—Grower in Quebec



SV4643NT

- An early maturing, red onion hybrid
- Produces a large bulb with improved color and quality when compared to Mercury
- Suitable as a direct seed or transplant option in the Northeast U.S. and Southeast Canada

Relative Maturity	Scale Color	Bulb Shape	Size	Storage	Disease Resistance*
110 days	Red	Globe	Medium-Jumbo	Medium-term, 5-6 months	HR: Foc/Pt

***Key to Disease Resistance**

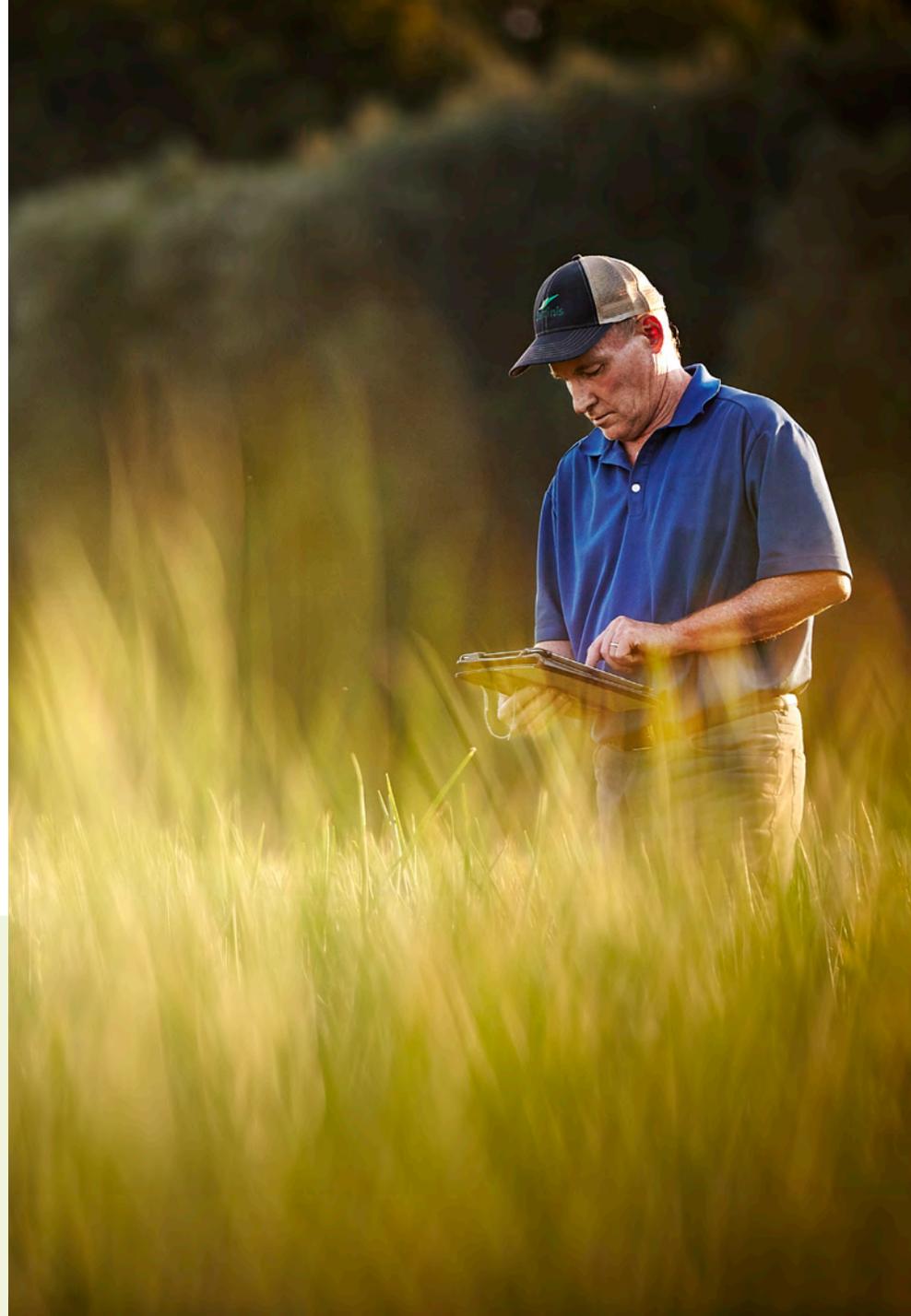
Foc = Basal rot

Pt = Pink root

HR = High Resistance The ability of a plant variety to highly restrict the activities of a specific pathogen or insect pest and/or to restrict the symptoms and signs of a disease, when compared to susceptible varieties. Varieties with high resistance may exhibit some symptoms when specified pathogen or pest pressure is severe. New and/or atypical strains of the specific pathogen or pest may overcome the resistance.

IR = Intermediate Resistance The ability of a plant variety to restrict the growth and development of the specified pest or pathogen. Intermediate Resistant plant varieties will show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure, but may exhibit greater range of symptoms compared to varieties with high resistance.

Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.





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