

## Potato Test Selections for Tablestock Use

### Invention Summary

New tablestock potato selections with attractive appearance that yield well and have few pickouts or internal defects. These selections are available for evaluation.

### Technology Overview

The Cornell potato breeding program has developed new potato test selections that present great features for tablestock use:

**NY149** is a yellow-fleshed, mid-late season tablestock clone with pink eyes and slightly-textured skin. NY149 tubers are smaller than Yukon Gold and exhibit much less hollow heart; yields are similar to Yukon Gold. Tubers do not darken and only slough slightly after boiling. NY149 is **resistant to Ro1** of the golden nematode and presents **moderate resistance to common scab**. Tuber dormancy is about one week longer than 'Atlantic'.

**NY151** is a smooth-skinned, late-season round white tablestock selection. It features tubers that do not darken or slough appreciably after boiling. NY151 is **resistant to race Ro1** of the golden nematode, and shows **moderate resistance to common scab**. It has very **good marketable yield**, averaging 104% of the cultivar 'Atlantic' in Tompkins County, New York. Tuber dormancy is comparable to 'Atlantic'.

**NY155** is an early-season tablestock selection with light pink skin. It features large, uniform oblong tubers with shallow eyes. Its tubers do not darken or slough appreciably after boiling. NY155 is moderately **resistant to common scab** and susceptible to the golden nematode. It demonstrates **good-yielding ability**, with marketable yield averaging 103% of 'Chieftain' in Tompkins County, New York. NY155 tuber dormancy is about 2 weeks longer than 'Atlantic'.

**NY161** is a yellow-fleshed mid-late season tablestock clone with smooth skin and purple splashes around the eyes. It is **moderately resistant to common scab** and susceptible to the golden nematode. NY161 demonstrates excellent-yielding ability, averaging 103% of the marketable yield of the cultivar 'Atlantic' and 90% of the cultivar 'Chieftain' in Tompkins County, New York. Tuber dormancy is two weeks longer than for 'Atlantic'.

### Potential Applications

Potato selections suitable for fresh market production.

### Advantages

- High yields, attractive appearance;
- Several are resistant to race 1 Ro1 of the golden nematode;
- A low frequency of pickouts due to knobs, misshapes and growth cracks, as well as a low level of internal defects;
- Adaptability to many growing areas and climate conditions.

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#### Type:

Plant varieties

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#### Cornell Reference:

D-7002 (NY149)

D-6992 (NY151)

D-6678 (NY155)

D-7405 (NY161)

Exp #	Skin	Flesh	Yield <sup>1</sup>	Tuber size	Tuber dormancy <sup>2</sup>	Maturity	Scab Resistance	Golden Nematode Resistance
NY149	Relatively smooth, pink Eyes	Yellow	Similar to Yukon Gold	Small	1 week	Mid-late	Moderate	Ro1
NY151	White, Smooth	White	104% of Atlantic	Mid-size	0 week	Late	Moderate	Ro1
NY155	Light Pink	White	103% of Chieftain	Large	2 weeks	Early	Moderate	Susceptible
NY161	Smooth, Purple splashes around the eyes	Yellow	103% of Atlantic	-	2 weeks	Mid-late	Moderate	Susceptible

<sup>1</sup> Yield compared to the marketable yield of the cultivar ‘Atlantic’ in Tompkins County, NY (\*compared to ‘Chieftain’ for NY155 and NY159)

<sup>2</sup> Tuber dormancy compared to the cultivar ‘Atlantic’: number of additional weeks.