

NY115

Potato

Denomination:	'NY115'
Botanical Name:	<i>Solanum tuberosum</i>
Applicant/Holder:	Cornell University Cornell Center for Technology, Enterprise & Commercialization 395 Pine Tree Road, Suite 310 Ithaca, New York 14850 United States of America
Breeder:	Walter De Jong, Cornell University, Ithaca, United States of America
Agent in Canada:	La Patate Lac-St-Jean 52, Edouard-Niquet Péribonka, Quebec G0W 2G0 Canada Tel: 418-374-2292
Application Date:	2007-02-01
Application Number:	07-5730
Protective direction granted:	2007-02-01
Date abandoned:	2009-11-04

Variety Description

Variety used for comparison: 'Pike'

Summary: *The plants of 'NY115' are shorter with a more spreading growth habit and longer, lighter green leaves than 'Pike'. The terminal and lateral leaflets of 'NY115' have less of a tendency to*

coalesce than those of 'Pike'. In comparison to 'Pike', 'NY115' has leaves with shallower veins and fewer secondary leaflets. 'NY115' has a more prominent star on the inner side of the corolla than 'Pike'. The light sprout of 'NY115' is larger and ovoid in shape while that of 'Pike' is spherical. 'NY115' has pubescence on the light sprout while 'Pike' does not. 'NY115' has weaker anthocyanin colouration at the base of the light sprout than 'Pike'.

Description:

PLANT: spreading growth habit, intermediate between stem type and leaf type, mid-season maturity

STEM: moderate anthocyanin colouration predominantly above the leaf axils and at the base, medium thickness, low to moderate swelling of nodes

LEAF: medium green, silhouette is intermediate between open and closed, leaf rachis has absent or very weak anthocyanin colouration of upper side, no pubescence on leaves of apical rosette, few secondary leaflets

TERMINAL LEAFLET: medium ovate, acuminate tip, cordate base, low frequency of coalescence with lateral leaflets, shallow veins, medium undulation of margin, dull on upper side

LATERAL LEAFLET: large, medium ovate, acuminate tip, cordate base, shallow veins, medium undulation of margin, dull on upper side

PETIOLE: absent or very weak anthocyanin colouration

INFLORESCENCE: low to moderate number per plant, medium size

FLOWER BUD: moderately persistent, absent or very weak anthocyanin colouration

COROLLA: white on inner side, absent or very weak anthocyanin colouration on inner side, medium sized, mostly prominent star

PEDUNCLE: very weak anthocyanin colouration

TUBER: light beige skin, smooth to rough (flakey) skin, round

TUBER EYES: white base, shallow, evenly distributed, slightly prominent eyebrows

TUBER FLESH: white, no secondary colour

LIGHT SPROUT: medium size, ovoid, few root tips, medium length lateral shoots

LIGHT SPROUT TIP: smaller than light sprout base, closed growth habit, weak anthocyanin colouration, absent or very sparse pubescence

LIGHT SPROUT BASE: weak intensity of anthocyanin colouration, absent or very small proportion of blue in anthocyanin, absent or very sparse pubescence

Origin & Breeding History: 'NY115' (experimental designation 'P23-31') is a table and chipping variety which resulted from a cross made in early 1990 between the widely grown chipping variety 'Pike' as the female parent and a Cornell University breeding line designated 'NY88' as the male parent. Seed from this cross was first sown in 1991. The resulting seedlings were transplanted to styro-foam quadra-packs, then to 15 cm pots and raised in the field on Mount Pleasant near Ithaca, New York. In 1992, four (4) tubers were harvested from each pot and planted as four (4) hill plots in the field. In the fall of 1992, selections were made in the field based on visual impressions of appearance and yield. During the winter, clones were assayed for resistance to race Ro1 of the golden cyst nematode and only resistant ones were retained. In 1993, clones that passed this first round of selection were planted and evaluated as 20 hill plots. In each successive year, evaluation plots increased in size and selection became more intensive, so that progressively fewer and fewer clones were retained. Traits which were evaluated most rigorously were the ability to chip directly from 7° C cold storage, freedom from internal and external physical defects, resistance to scab, resistance to the

golden nematode, specific gravity, maturity and yield.

Tests & Trials: Trials for 'NY115' were conducted during the summer of 2006 at Ferme Rivest Bourgeois in Rawdon, Québec. The plants were grown in a field. There were five (5) rows of the candidate variety and four (4) rows of the reference variety. Each row contained approximately 17 plants which were spaced 30 cm apart. The rows were spaced one (1) meter apart.

Comparison tables for 'NY115' with reference variety 'Pike'

Plant height (cm)

	'NY115'
mean	44.44
std. deviation	4.25

Leaf length (cm)

	'NY115'
mean	34.81
std. deviation	2.00

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Potato: 'NY115' (right) with reference variety 'Pike' (left)
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Potato: Light sprout of candidate variety 'NY115'
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Potato: Light sprout of reference variety 'Pike'