

Report of new cultivar 'MARIATA', NEW CUBAN POTATO CULTIVAR SELECTED WITH HIGH AND STABLE YIELD FOR FRESH CONSUMPTION

Reporte de nuevo cultivar 'Mariata', nuevo cultivar de papa cubana seleccionado con altos y estables rendimientos para consumo fresco

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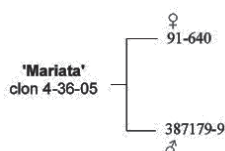
ABSTRACT. The potato variety catalogs (*Solanum tuberosum* L.) have reported more than 5,000 cultivars. In Cuba the new potato cultivar 'Mariata' is the number 16 that is obtained and recorded, it was selected from a cross made at the International Potato Center located in Peru. Its progeny consists of 3000 botanical seeds was screened for 11 years at the National Institute of Agricultural Sciences, and it was evaluated and characterized the hybrid family from the selection of 'Mariata' for expressing stable and high performance as well as, good behavior before the country's major pests in field conditions.

Key words: hybrids, yield, selection

ORIGIN

In 2005, at the INCA of the International Potato Center (CIP, Peru) received 3000 botanical potato seeds from a crossbreeding carried out with the clone progenitors 91-640 and clone 387179-9. After 11 years (2006-2017) of study and selection following the Cuban Scheme of Genetic Improvement and Selection of potato genotypes, clone 4-36-05 is proposed as the new cultivar called 'Mariata'.

PEDIGREE



DESCRIPTION OF CULTIVAR CHARACTERS OF POTATO 'MARIATA'

Foliolate number: 5; Foliolate shape: asymmetric; Height of the plant: 50-60 cm; presence of anthocyanin in the stem: yes; number of stems: 2-3; color of the flower: white; shape of the leaves: open; Field closing: good (40 days); vegetative cycle: short (90 days); tuber number per plant: 6 to 10; yield per hectare (t ha⁻¹): 32 to 40 (high); tuber skin color: yellow

RESUMEN. Los catálogos de variedades de papa (*Solanum tuberosum* L.) han reportado más de 5 000 cultivares. En Cuba el nuevo cultivar de papa 'Mariata' es el número 16 que se obtiene y registra, el mismo fue seleccionado a partir de un cruzamiento realizado en el Centro Internacional de la Papa ubicado en Perú. Su progenie constituida por 3000 semillas botánicas, fue sometida a selección durante 11 años en el Instituto Nacional de Ciencias Agrícolas, y fue evaluada y caracterizada la familia híbrida a partir de la que se seleccionó a 'Mariata' por expresar alto y estable rendimiento, así como, buen comportamiento antes las principales plagas del país en condiciones de campo.

Palabras clave: híbridos, rendimiento, selección

with pink pigmentation in the eyes; tuber shape: oblong; depth of the eyes: medium; uniformity of the tubers: uniform large; appearance: good; flesh color: cream; dry matter (%): 15 to 17 (low); alternaria solani: moderately resistant (field conditions); phytophthora infestans: moderately resistant (field conditions); streptomyces scabies: resistant; PLRV virus: tolerant (field conditions).

Table 1. Yield per hectare and number of tubers per plant obtained by the cultivar 'Mariata' during eight agricultural seasons

Campaign / Location	INCA	
	Yield (t ha ⁻¹)	Number of the tubers per plant
2009-2010	40,5	9
2010-2011	36,2	8
2011-2012	35,7	7
2012-2013	38,4	9
2013-2014	34,1	6
2014-2015	35,4	7
2015-2016	32,1	6
2016-2017	33,5	6
Media	34,1	7,3

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