

## EVALUATION OF NEW CRANBERRY GERMPLASM FOR FRESH FRUIT PRODUCTION IN THE PACIFIC NORTHWEST

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A replicated field planting of advanced selection of cranberries from the breeding program at Rutgers University was established in 2003. Comparisons were made to standard cultivars. Yield, fruit size, color, rot and keeping quality, disease resistance, and suitability for dry harvest parameters have been collected. Yield, fruit size, fruit rot at harvest and rose bloom data are presented in Table 1. Based on production and other variables, none of the new selections out-yielded Pilgrim. CNJ 44-83, CNJ95-37 and CNJ93-9-42 appear to be the most promising new selections in the trial. BE and CNJ95-37 distinguish for fresh fruit potential based on yield and low fruit rot. Of the two new releases, Crimson Queen and Mullica Queen, only Crimson Queen has distinguished itself as a superior cultivar for the fresh fruit production in the PNW. Based on these data, either CNJ 44-83, CNJ95-37 or CNJ93-9-42 will be named and released in 2009 or 2010.

Table 1. Yield and fruit size of cranberry variety trials – Long Beach, Washington

Cultivar/selection	bbl/ac 9/27/05	bbl/ac 9/26/06	bbl/ac 10/1/07	bbl/ac 10/2/08	bbl/ac 2005 to 2008	fruit size g/fruit mean 06+07	Fruit rot % rot at harvest mean 2007 & 2008	Rose bloom infested upright/ft <sup>2</sup> 1=0, 5>20 June 2008
Crimson Queen	77 cd	179 bc	347 abc	242 abc	846 bcd	1.72 ab	19.4 abc	4.7 ab
NJS95-37	85 c	277 a	322 bcd	246 abc	931 bc	1.33 e	5.7 d	3.0 cd
Mullica Queen	23 cde	20 d	252 cd	178 bc	473 fg	1.80 a	18.0 a-d	4.0 abc
CNJ96-44-83	54 cde	204 b	288 bcd	270 ab	816 b-e	1.58 c	20.5 ab	4.0 abc
CNJ95-20-20	32 cde	181 bc	253 cd	173 bc	639 ef	1.34 de	20.9 a-d	3.0 cd
CNJ93-9-42	61 cde	187 bc	451 a	266 ab	964 ab	1.43 d	18.0 a-d	3.7 a-d
CNJ93-13-100	46 cde	136 c	295 bcd	213 bc	690 de	1.31 e	40.9 bcd	2.7 cd
BE	150 b	217 b	383 ab	229 abc	980 ab	1.17 f	6.5 cd	5.0 a
AR	16 cde	223 b	290 bcd	239 abc	768 cde	1.56 c	14.8 a-d	2.3 d
Bain Favorite	46 cde	178 bc	212 d	200 bc	636 ef	1.81 a	28.6 a	2.7 cd
Pilgrim	257 a	202 b	327 a-d	345 a	1132 a	1.68 b	13.4 a-d	2.7 cd
Stevens	3 e	48 d	209 d	138 c	398 g	1.35 de	7.9 bcd	2.3 d
NJS98-65	11 de	201 b	335 a-d	196 bc	743 de	1.79 a	11.5 bcd	3.3 bcd
NJS93-13-100	27 cde	172 bc	352 abc	153 bc	704 de	1.55 c	12.4 bcd	4.0 abc
LSD (P=.05)	61	46	112	104	161	0.093	9.9	1.29
Treatment Prob(F)	0.0001	0.0001	0.0088	0.0371	0.0001	0.0001	0.04	0.0020