



United States Department of Agriculture

Research, Education, and Economics
Agricultural Research Service

March 11, 2014

Subject: UC- USDA Carrot Trials
To: Trial Participants
From: Phil Simon, Joe Nunez, and Fernando Miramontes

A handwritten signature in blue ink, appearing to read "Phil Simon".

The results of the 2014 UC-USDA Carrot Trials in El Centro are attached, along with your score sheet.

Note that two lists of results are enclosed - one by Field Number and one by Rank.

We were pleased to receive the evaluations of judges who were able to attend. We are very grateful to DREC staff for their cooperation and excellent assistance. Their help is much appreciated. Thank you.



Vegetable Crops Research Unit
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Midwest Area

An Equal Opportunity Employer

USDA California Carrot Trials 2014

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²	
			1	2	3	4	5			H	S
Entries Listed by Field Number											
B401	Propeel	Seminis			3	9	1	3.85		4	4
B402	UpperCut	Nunhems		1	8	2	2	3.38		3.5	4
B403	Imperial Cuts	Integra		1	9.5	2.5		3.12		4	4
B404	(S.C. x L9788) x 9253	356-4	4	8	10			2.27	80	4	4.5
B405	(L7550 x 2327) x 9253	356-5	4	11	6	1		2.18	85	4	4
B406	(S.C. x L9788) x 1131	309-2	1	12.5	6.5	2		2.43	70	3.5	4
B407	FCR13207	Sakata		1	5	14.5	1.5	3.75	6	4	4
B408	(1111 x 7553) x 2577	159-2		14	6.5	1.5		2.43	71	4	4
B409	VH133	Vilmorin		4	9	9		3.23	14	3.5	4
B410	(6333 x 6366) x (FN2-9 x 2302)	033-3	4	1	15.5	1.5		2.66	50	4	4
B411	(S.C. x 2327) x 9785	287-3		5	14	3		2.91	27	4	4
B412	(6253 x 2144) x 1398	040-2		1	13.5	6.5	1	3.34	9	3.5	4
B413	(9253 x 9788) x 2574	156-6	6	10	5	1		2.05	92	4	4
B414	(9253 x 7551) x 8542 ★	141-5	4	11	6	1		2.18	86	4	4
B415	XCR11740	Sakata		3	3.5	7	8.5	3.95	2	4	4
B416	(9253 x 9788) x 9785	286-7	1	2	11.5	7.5		3.16	16	4	4
B417	HoneySnax	Nunhems		4.5	9	7.5	1	3.23	15	4	4
B418	(9256 x 7551) x 2304	247-4	1	5	13	3		2.82	36	3.5	4
B419	VH180	Vilmorin		6	9	6	1	3.09	20	4	4
B420	S.C. x 2301	245-2	3	6	10	3		2.59	57	4	4
B421	FCR9496	Sakata	1	6	12	3		2.77	39	3.5	4
B422	(9256 x 7551) x 1386	109-4	1	6.5	12.5	2		2.70	46	4	4
B423	KXPC-506	Integra	2	5	8	6.5	0.5	2.93	26	4	4
B424	Propeel	Seminis		2	8	10	2	3.55	8	4	4
B425	(9253 x 7551) x 9785	286-5	1	6.5	13.5	1		2.66	51	4	4
B426	KXPC-516	Integra	3	4	11.5	3.5		2.70	47	3.5	4
B427	(6253 x 2144) x 1386	109-5	3	11.5	5.5	2		2.30	78	4	4
B428	(9253 x 7551) x 1408	050-2	3	6.5	11	1.5		2.50	64	3.5	4
B429	(6253 x 2144) x 1406	048-2	4	10.5	7.5			2.16	88	4	4
B430	PS 1441	Seminis		1	4.5	14	2.5	3.82	4	4.5	4
B431	(9253 x 9788) x 4001 ★	263-4		7	10	5		2.91	28	3.5	4
B432	(6253 x 2144) x 1391	110-5	1	8	12	1		2.59	58	3.5	4
B433	(6366 x 2226) x 7553	965-7		5	10.5	6.5		3.07	21	4	4
B434	CrispyCut	Nunhems		1	10.5	7.5	3	3.57	7	4.5	4
B435	(9265 x 7551) x 9253	356-7	2	9	11			2.41	72	3	4
B436	(7550 x 2327) x 9253	356-6	3	10.5	8.5			2.25	81	3	4
B437	VH116	Vilmorin	2	7	11	2		2.59	59	4	4
B438	(7254 x 7551) x 1405	047-5	2	8.5	9.5	2		2.52	61	3.5	4
B439	FCR13195	Sakata		3	9	10		3.32	11	4	4
B440	(1111 x 7553) x 1393	111-2	5	14	3			1.91	93	4.5	4
B441	(6253 x 6333) x 1393	111-3	4	11	4.5	2.5		2.25	82	3.5	4
B442	KXPC-060	Integra		4	13	4.5	0.5	3.07	22	4.5	4
B443	(9253 x 9788) x 1393	111-4	6.5	6.5	9			2.11	90	4	4
B444	(9253 x 7551) x 2304	247-3	1	9	6	6		2.77	40	3.5	4
B445	(6253 x 6333) x 2577	159-3		3	15	4		3.05	23	4	4
B446	VH195	Vilmorin	1	6	10	5		2.86	30	4	4
B447	(9253 x 7551) x 2301	245-3		9	7	6		2.86	31	4	4
B448	(9253 x 9788) x 2304	247-5	1	6	2.5	1.5		2.41	73	4	4
B449	NBC N363	Nunhems	2		7.5	1.5		2.77	41	4	4
B450	(9253 x 7551) x 1391	110-3	4	8.5	8.5	1		2.30	79	3.5	4
B451	(9256 x 7551) x 1391	110-4	3	7	12			2.41	74	4	4

USDA California Carrot Trials 2014

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²	
			1	2	3	4	5			H	S
B452	(9256 x 7551) x 4001 ★	263-3	1	7.5	12.5	1		2.61	53	4	4
B453	CR 1706	Seminis			7	13	2	3.77	5	4	4
B454	(6253 x 2144) x 0572	907-3	1	4.5	15.5	1		2.75	43	4	4
B455	(7254 x 7551) x 8542 ★	141-4	4	10	8			2.18	87	4	4
B456	(2144 x 2126) x 0570	905-4	2	8.5	9.5	2		2.52	62	3.5	4
B457	KXPC-222	Integra	2	11	8	1		2.36	76	3.5	4
B458	(5280 x 6366) x 0569	904-2	9	6	7			1.91	94	4	4
B459	(2144 x 2126) x 0568	903-4	6	9	6	1		2.09	91	3	4
B460	Imperial Cuts	Integra	1	5	11.5	4.5		2.89	29	4	4
B461	(5280 x 6366) x 0567	902-2	1	4	14	3		2.86	32	4	4
B462	(9253 x 9788) x 3725	289-2	3	6	13			2.45	68	4	4
B463	UpperCut	Nunhems			4	13	5	4.05	1	4	4
B464	(9253 x 7551) x 1386	109-3	1	2	5.5	1.5		2.75	44	4	4
B465	FCR13204	Sakata	1	1	6	1		2.78	38	4.5	4
B466	(6366 x 2226) x 1386	109-6	11	7	3	1		1.73	96	4	4
B467	VH182	Vilmorin	2	6	11	3		2.68	49	4	4
B468	(2144 x 7553) x 1403	045-6	4	9	4.5	3.5	1	2.48	65	4	4
B469	KXPC-107	Integra	3	8.5	7.5	3		2.48	66	4.5	4
B470	(2144 x 2126) x 1397	039-2	2	10	9	1		2.41	75	4	4.5
B471	NUN85931	Nunhems		8	9.5	4.5		2.84	34	3.5	4
B472	(6253 x 2144) x 1397	039-3	5	7	7	3		2.36	77	4	3.5
B473	(9256 x 7551) x 2301	245-4	1	7	8	6		2.86	33	4	4
B474	(9253 x 9788) x 2301	245-5	4	4.5	8.5	4	1	2.70	48	4	4
B475	(2144 x 6253) x 2575	157-3	4	8	6	4		2.45	69	4	4
B476	CR 1640	Seminis		2	3	12	5	3.91	3	4	4
B477	(9253 x 7551) x 1397	039-5		2	12.5	7.5		3.25	13	4	4
B478	(7550 x 7808) x 6333	353-2	4.5	9.5	8			2.16	89	4	4
B479	FCR13205	Sakata	2	2	8	8	2	3.27	12	4	4
B480	(7553 x 7808) x 6333	353-3	2	8.5	10.5	1		2.48	67	2.5	4
B481	(S.C. x 9788) x 6333	353-4	3	12.5	5.5	1		2.20	83	4	4
B482	(7550 x 2327) x 6333	348-6	1	7.5	12.5	1		2.61	54	4	4
B483	(9253 x 7551) x 2576	158-4	2	2	12.5	5.5		2.98	24	4	4
B484	KXPC-306	Integra	1	10.5	7.5	3		2.57	60	4	4
B485	(9256 x 7551) x 9785	360-3		8	9.5	4.5		2.84	35	4.5	4
B486	(9256 x 7551) x 9785	360-4	2	13.5	6.5			2.20	84	4	4
B487	VH186	Vilmorin	6	13	3			1.86	95	4.5	4
B488	(S.C. x 9788) x 4623	362-2		5	10	6.5	0.5	3.11	19	4	4
B489	(7553 x 2327) x 4623	362-3		7	13	2		2.77	42	4	4
B490	(7553 x 2327) x 4623	362-4		5	9.5	7	0.5	3.14	17	4	4
B491	VH210	Vilmorin	2	4.5	12.5	3		2.75	45	4	4
B492	(7550 x 2327) x 4623	362-5		3.5	5	1.5		2.80	37	3.5	4
B493	Ibiza	Bejo		4.5	4.5	1		2.65	52	4	4.5
B494	(9256 x 7551) x 4622	363-2	3	5	10.5	2.5		2.60	56	3.5	4
B495	(S.C. x 9788B) x 4622	363-3		5	9	8		3.14	18	4	4
B496	SlenderCut	Nunhems		3	8.5	10.5		3.34	10	4.5	4
B497	(9256 x 7551) x 4622	363-4	1	8.5	10.5	2		2.61	55	4	4
B498	(S.C. x 9788) x 4622	363-5	1	6	8	7		2.95	25	3.5	4
B499	VH203	Vilmorin	1	8.5	12.5			2.52	63	4	4

¹ Mean based on average of 22 judges: 1 = unacceptable, 2 = poor, 3 = fair, 4 = good, 5 = excellent.

² Flavor (1 judge): H = Harshness: 1=Very harsh, 5=Very mild;

S = Sweetness: 1=Not sweet, 5=Very sweet

Each ★ indicates that one parent is a nematode resistant line

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			1	2	3	4	5			H	S
Entries Listed by Rank											
B463	UpperCut	Nunhems			4	13	5	4.05	1	4	4
B415	XCR11740	Sakata		3	3.5	7	8.5	3.95	2	4	4
B476	CR 1640	Seminis		2	3	12	5	3.91	3	4	4
B430	PS 1441	Seminis		1	4.5	14	2.5	3.82	4	4.5	4
B453	CR 1706	Seminis			7	13	2	3.77	5	4	4
B407	FCR13207	Sakata		1	5	14.5	1.5	3.75	6	4	4
B434	CrispyCut	Nunhems		1	10.5	7.5	3	3.57	7	4.5	4
B424	Propeel	Seminis		2	8	10	2	3.55	8	4	4
B412	(6253 x 2144) x 1398	040-2		1	13.5	6.5	1	3.34	9	3.5	4
B496	SlenderCut	Nunhems		3	8.5	10.5		3.34	10	4.5	4
B439	FCR13195	Sakata		3	9	10		3.32	11	4	4
B479	FCR13205	Sakata	2	2	8	8	2	3.27	12	4	4
B477	(9253 x 7551) x 1397	039-5		2	12.5	7.5		3.25	13	4	4
B409	VH133	Vilmorin		4	9	9		3.23	14	3.5	4
B417	HoneySnax	Nunhems		4.5	9	7.5	1	3.23	15	4	4
B416	(9253 x 9788) x 9785	286-7	1	2	11.5	7.5		3.16	16	4	4
B490	(7553 x 2327) x 4623	362-4		5	9.5	7	0.5	3.14	17	4	4
B495	(S.C. x 9788B) x 4622	363-3		5	9	8		3.14	18	4	4
B488	(S.C. x 9788) x 4623	362-2		5	10	6.5	0.5	3.11	19	4	4
B419	VH180	Vilmorin		6	9	6	1	3.09	20	4	4
B433	(6366 x 2226) x 7553	965-7		5	10.5	6.5		3.07	21	4	4
B442	KXPC-060	Integra		4	13	4.5	0.5	3.07	22	4.5	4
B445	(6253 x 6333) x 2577	159-3		3	15	4		3.05	23	4	4
B483	(9253 x 7551) x 2576	158-4	2	2	12.5	5.5		2.98	24	4	4
B498	(S.C. x 9788) x 4622	363-5	1	6	8	7		2.95	25	3.5	4
B423	KXPC-506	Integra	2	5	8	6.5	0.5	2.93	26	4	4
B411	(S.C. x 2327) x 9785	287-3		5	14	3		2.91	27	4	4
B431	(9253 x 9788) x 4001 ★	263-4		7	10	5		2.91	28	3.5	4
B460	Imperial Cuts	Integra	1	5	11.5	4.5		2.89	29	4	4
B446	VH195	Vilmorin	1	6	10	5		2.86	30	4	4
B447	(9253 x 7551) x 2301	245-3		9	7	6		2.86	31	4	4
B461	(5280 x 6366) x 0567	902-2	1	4	14	3		2.86	32	4	4
B473	(9256 x 7551) x 2301	245-4	1	7	8	6		2.86	33	4	4
B471	NUN85931	Nunhems		8	9.5	4.5		2.84	34	3.5	4
B485	(9256 x 7551) x 9785	360-3		8	9.5	4.5		2.84	35	4.5	4
B418	(9256 x 7551) x 2304	247-4	1	5	13	3		2.82	36	3.5	4
B492	(7550 x 2327) x 4623	362-5		3.5	5	1.5		2.80	37	3.5	4
B465	FCR13204	Sakata	1	1	6	1		2.78	38	4.5	4
B421	FCR9496	Sakata	1	6	12	3		2.77	39	3.5	4
B444	(9253 x 7551) x 2304	247-3	1	9	6	6		2.77	40	3.5	4
B449	NBC N363	Nunhems	2		7.5	1.5		2.77	41	4	4
B489	(7553 x 2327) x 4623	362-3		7	13	2		2.77	42	4	4
B454	(6253 x 2144) x 0572	907-3	1	4.5	15.5	1		2.75	43	4	4
B464	(9253 x 7551) x 1386	109-3	1	2	5.5	1.5		2.75	44	4	4
B491	VH210	Vilmorin	2	4.5	12.5	3		2.75	45	4	4
B422	(9256 x 7551) x 1386	109-4	1	6.5	12.5	2		2.70	46	4	4
B426	KXPC-516	Integra	3	4	11.5	3.5		2.70	47	3.5	4
B474	(9253 x 9788) x 2301	245-5	4	4.5	8.5	4	1	2.70	48	4	4
B467	VH182	Vilmorin	2	6	11	3		2.68	49	4	4
B410	(6333 x 6366) x (FN2-9 x 2302)	033-3	4	1	15.5	1.5		2.66	50	4	4
B425	(9253 x 7551) x 9785	286-5	1	6.5	13.5	1		2.66	51	4	4

USDA California Carrot Trials 2014

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²	
			1	2	3	4	5			H	S
B493	Ibiza	Bejo		4.5	4.5	1	2.65	52	4	4.5	
B452	(9256 x 7551) x 4001 ★	263-3	1	7.5	12.5	1	2.61	53	4	4	
B482	(7550 x 2327) x 6333	348-6	1	7.5	12.5	1	2.61	54	4	4	
B497	(9256 x 7551) x 4622	363-4	1	8.5	10.5	2	2.61	55	4	4	
B494	(9256 x 7551) x 4622	363-2	3	5	10.5	2.5	2.60	56	3.5	4	
B420	S.C. x 2301	245-2	3	6	10	3	2.59	57	4	4	
B432	(6253 x 2144) x 1391	110-5	1	8	12	1	2.59	58	3.5	4	
B437	VH116	Vilmorin	2	7	11	2	2.59	59	4	4	
B484	KXPC-306	Integra	1	10.5	7.5	3	2.57	60	4	4	
B438	(7254 x 7551) x 1405	047-5	2	8.5	9.5	2	2.52	61	3.5	4	
B456	(2144 x 2126) x 0570	905-4	2	8.5	9.5	2	2.52	62	3.5	4	
B499	VH203	Vilmorin	1	8.5	12.5		2.52	63	4	4	
B428	(9253 x 7551) x 1408	050-2	3	6.5	11	1.5	2.50	64	3.5	4	
B468	(2144 x 7553) x 1403	045-6	4	9	4.5	3.5	1	2.48	65	4	4
B469	KXPC-107	Integra	3	8.5	7.5	3	2.48	66	4.5	4	
B480	(7553 x 7808) x 6333	353-3	2	8.5	10.5	1	2.48	67	2.5	4	
B462	(9253 x 9788) x 3725	289-2	3	6	13		2.45	68	4	4	
B475	(2144 x 6253) x 2575	157-3	4	8	6	4	2.45	69	4	4	
B406	(S.C. x L9788) x 1131	309-2	1	12.5	6.5	2	2.43	70	3.5	4	
B408	(1111 x 7553) x 2577	159-2		14	6.5	1.5	2.43	71	4	4	
B435	(9265 x 7551) x 9253	356-7	2	9	11		2.41	72	3	4	
B448	(9253 x 9788) x 2304	247-5	1	6	2.5	1.5	2.41	73	4	4	
B451	(9256 x 7551) x 1391	110-4	3	7	12		2.41	74	4	4	
B470	(2144 x 2126) x 1397	039-2	2	10	9	1	2.41	75	4	4.5	
B457	KXPC-222	Integra	2	11	8	1	2.36	76	3.5	4	
B472	(6253 x 2144) x 1397	039-3	5	7	7	3	2.36	77	4	3.5	
B427	(6253 x 2144) x 1386	109-5	3	11.5	5.5	2	2.30	78	4	4	
B450	(9253 x 7551) x 1391	110-3	4	8.5	8.5	1	2.30	79	3.5	4	
B404	(S.C. x L9788) x 9253	356-4	4	8	10		2.27	80	4	4.5	
B436	(7550 x 2327) x 9253	356-6	3	10.5	8.5		2.25	81	3	4	
B441	(6253 x 6333) x 1393	111-3	4	11	4.5	2.5	2.25	82	3.5	4	
B481	(S.C. x 9788) x 6333	353-4	3	12.5	5.5	1	2.20	83	4	4	
B486	(9256 x 7551) x 9785	360-4	2	13.5	6.5		2.20	84	4	4	
B405	(L7550 x 2327) x 9253	356-5	4	11	6	1	2.18	85	4	4	
B414	(9253 x 7551) x 8542 ★	141-5	4	11	6	1	2.18	86	4	4	
B455	(7254 x 7551) x 8542 ★	141-4	4	10	8		2.18	87	4	4	
B429	(6253 x 2144) x 1406	048-2	4	10.5	7.5		2.16	88	4	4	
B478	(7550 x 7808) x 6333	353-2	4.5	9.5	8		2.16	89	4	4	
B443	(9253 x 9788) x 1393	111-4	6.5	6.5	9		2.11	90	4	4	
B459	(2144 x 2126) x 0568	903-4	6	9	6	1	2.09	91	3	4	
B413	(9253 x 9788) x 2574	156-6	6	10	5	1	2.05	92	4	4	
B440	(1111 x 7553) x 1393	111-2	5	14	3		1.91	93	4.5	4	
B458	(5280 x 6366) x 0569	904-2	9	6	7		1.91	94	4	4	
B487	VH186	Vilmorin	6	13	3		1.86	95	4.5	4	
B466	(6366 x 2226) x 1386	109-6	11	7	3	1	1.73	96	4	4	
B401	Propeel	Seminis			3	9	1	3.85		4	4
B402	UpperCut	Nunhems		1	8	2	2	3.38		3.5	4
B403	Imperial Cuts	Integra		1	9.5	2.5		3.12		4	4

¹ Mean based on average of 22 judges: 1 = unacceptable, 2 = poor, 3 = fair, 4 = good, 5 = excellent.

² Flavor (1 judge): H = Harshness: 1=Very harsh, 5=Very mild;

S = Sweetness: 1=Not sweet, 5=Very sweet

Each ★ indicates that one parent is a nematode resistant line

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²	
			1	2	3	4	5			H	S
Entries Listed by Field Number											
C401	Dominion	Seminis		2	6	5		3.23		4	4
C402	Maverick	Nunhems		1	3.5	5.5	4	3.89		4	4
C403	Bejo 2951	Bejo		5	11	5		3.00	14	4	4
C404	(S.C. x 8542) x 1131 ★★	308-5		9	12			2.57	40	4	4
C405	FCR13212	Sakata	3	6	7	5	1	2.77	27	3.5	4
C406	(7553 x 5238) x 6526 ★	349-3		7	10.5	4.5		2.89	20	4	4
C407	S.C. x 3284B ★	B101-3	1	10.5	8.5	2		2.52	44	4	4.5
C408	S.C. x 9297B ★	B111-4		2	13	7		3.23	5	4	4
C409	(7550 x 2327) x 6333	353-5	4	3.5	13.5	1		2.52	45	4	4
C410	Nun 85190	Nunhems	2	1	8	8	3	3.41	2	4	4
C411	(8233 x 7553) x 6333	353-6	3	7.5	6.5	5		2.61	37	3.5	4
C412	(S.C. x 8542) x 1111 ★	303-5	5	7.5	6.5	3		2.34	57	4	4
C413	CR 2289	Seminis	2	9	9	2		2.50	50	3.5	4
C414	Nematode S.C. x 3353 ★★	334-2	6	11	2	2		2.00	69	4	4
C415	(3999 x 9304) x 3353 ★★	334-4	6	6	8	2		2.27	62	4	4.5
C416	FCR13217	Sakata	2	6.5	12.5	1		2.57	41	4	4
C417	(dOr. S.C. x 5438) x 1131	308-3	6	10	5	1		2.05	68	4	4
C418	(7550 x 7808) x 6526 ★	349-4		8.5	11.5	2		2.70	33	4	4
C419	S.C. x 3363B ★	B104-3	2	8	10.5	1.5		2.52	46	4	4
C420	KXPC-403	Integra	2	5	5.5	9.5		3.02	12	4	4.5
C421	(7553 x 7808) x 6526 ★	349-5	1	4.5	11.5	4	1	2.98	15	3.5	4
C422	KXPC-558	Integra		7.5	9.5	5		2.89	21	4	4
C423	(7808 x 9304) x 6526 ★	349-6	1	10	9	0.5	1.5	2.61	38	4	4
C424	Nematode S.C x 8524 ★★★	347-2	5	8	6.5	2.5		2.30	61	3	4
C425	Hoss	Nunhems	3	4	9	6		2.82	25	3	4
C426	Nematode S.C x 8524 ★★★	347-4	0.5	9	9.5	3		2.68	34	3	4
C427	S.C. x 9785	B112-3		9	7.5	5.5		2.84	23	4	4
C428	(3999 x 9304) x 1131 ★	308-6	1	8	11	2		2.64	36	3.5	4
C429	VH198	Vilmorin		9	10	3		2.73	32	4	4
C430	Maverick	Nunhems	3	2.5	8	7.5	1	3.05	9	4.5	4
C431	(8531 x 3999) x 8524 ★★★	347-5	3	8	7.5	3.5		2.52	47	3	4
C432	Dominion	Seminis	1	14	6	1		2.32	59	4	4
C433	(8524 x 3999 ²) x 8524 ★★★	347-6	1	10	10	1		2.50	51	4	4
C434	(5280 x 6366) x 7254	752-3	1	5	10	6		2.95	17	4.5	4
C435	KXPC-020	Integra	3	11	7	1		2.27	63	4	4.5
C436	(7241 x 2126) x 0186	135-2	5	12	3.5	1.5		2.07	67	4	4
C437	(8531 x 3999 ²) x 1175 ★★★	310-6	4	8.5	7.5	2		2.34	58	4	4
C438	(5280 x 7808) x 8503 ★	246-6		8	11.5	2.5		2.75	29	4	4
C439	S.C. x 9297B ★	B111-3	1	3.5	10.5	7		3.07	7	4.5	4
C440	(2566 x 5238) x 2205	012-6 '00	4	12	4	2		2.18	64	4	4
C441	CX480	Vilmorin	3	10	6	3		2.41	54	4.5	4
C442	(7241 x 2126) x 8524 ★	248-5	3	7	8.5	3.5		2.57	42	4	4
C443	(7254 X 9788) X 3999 ★	058-5	2.5	1.5	12.5	5.5		2.95	18	4	4
C444	SV2384DL	Seminis	3.5	7	8.5	3		2.50	52	4	4
C445	(6366 x 22226) x 5280	154-7	4	10	5	3		2.32	60	4	4
C446	NUN 85021	Nunhems	1	11	7.5	2.5		2.52	48	4.5	4.5
C447	(8542 x 8524) x 4002 ★★★	117-3	7	6	8	1		2.14	66	3.5	4
C448	KXPC-404	Integra	4	6.5	7.5	4		2.52	49	4	4
C449	(3035 x 3999) x 2327 ★	259-3	1	2	9.5	6.5	3	3.39	3	4	4
C450	(6038 x 2327) x 1131	309-3	2	4	7	9		3.05	10	4	4
C451	FCR13221	Sakata		7	7	8		3.05	11	3.5	4
C452	(8233 x 7553) x 1131	309-4	2	13	4	2	1	2.41	55	3.5	4
C453	VH194	Vilmorin	0.5	2.5	12	7		3.16	6	4	4
C454	Trooper	Nunhems	1	6.5	12	2	0.5	2.75	30	4	4

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²	
			1	2	3	4	5			H	S
C455	(6526 x 2144) x 1131	309-5	1	4.5	11.5	5	2.93	19	3	4	
C456	VH204	Vilmorin	0.5	8	7.5	6	2.86	22	4	4	
C457	(8524 x 3999) x 1175 ★★★	310-3	3	4	12	3	2.68	35	4	4	
C458	(6366 x 5238) x 1175 ★	310-4	1	5	7.5	8.5	3.07	8	4	4	
C459	(Nematode S.C.) x 2159 ★★★	314-2	3	9	7	3	2.45	53	3.5	4	
C460	FCR12089	Sakata	2	4.5	10.5	5	2.84	24	3	4	
C461	(Nematode S.C.) x 2159 ★★★	314-3	4.5	14.5	3		1.93	70	4	4	
C462	(Nematode S.C.) x 2159 ★★★	314-4	4	12	4	2	2.18	65	4	4	
C463	FCR13213	Sakata			10	10	2	3.64	1	3	4
C464	(8531 x 3999 ²) x 2159 ★★★	314-5	0.5	3.5	13	5	3.02	13	4	4	
C465	(4001 x 6526) x 2159 ★★★	314-6	3	7.5	11.5		2.39	56	4	4	
C466	Rebel	Nunhems		8.5	10	2.5	1	2.82	26	4	4
C867	(Nematode S.C.) x 2289 ★★	316-4	1	3.5	12.5	5	2.98	16			
C868	(8531 x 3999) x 2289 ★★	316-5	1	3	9	6	3	3.32	4		
C869	(8531 x 3999 ²) x 2289 ★★	316-6	2	5	11	4	2.77	28			
C870	(Nematode S.C.) x 2157 ★★★	313-2	1	8.5	8.5	3	1	2.75	31		
C871	S.C. x 3363B	B104-4	1.5	8	11.5	1		2.55	43		
C872	(Nematode S.C.) x 2157 ★★★	313-3	2.5	7.5	8	2	1	2.60	39		

¹ Mean based on average of 22 judges: 1 = unacceptable, 2 = poor, 3 = fair, 4 = good, 5 = excellent.

² Flavor (1 judge):
 H = Harshness: 1=Very harsh, 5=Very mild;
 S = Sweetness: 1=Not sweet, 5=Very sweet

Each ★ indicates that one parent is a nematode resistant line

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²	
			1	2	3	4	5			H	S
Entries Listed by Rank											
C463	FCR13213	Sakata			10	10	2	3.64	1	3	4
C410	Nun 85190	Nunhems	2	1	8	8	3	3.41	2	4	4
C449	(3035 x 3999) x 2327 ★	259-3	1	2	9.5	6.5	3	3.39	3	4	4
C868	(8531 x 3999) x 2289 ★★	316-5	1	3	9	6	3	3.32	4		
C408	S.C. x 9297B ★	B111-4		2	13	7		3.23	5	4	4
C453	VH194	Vilmorin	0.5	2.5	12	7		3.16	6	4	4
C439	S.C. x 9297B ★	B111-3	1	3.5	10.5	7		3.07	7	4.5	4
C458	(6366 x 5238) x 1175 ★	310-4	1	5	7.5	8.5		3.07	8	4	4
C430	Maverick	Nunhems	3	2.5	8	7.5	1	3.05	9	4.5	4
C450	(6038 x 2327) x 1131	309-3	2	4	7	9		3.05	10	4	4
C451	FCR13221	Sakata		7	7	8		3.05	11	3.5	4
C420	KXPC-403	Integra	2	5	5.5	9.5		3.02	12	4	4.5
C464	(8531 x 3999 ²) x 2159 ★★★	314-5	0.5	3.5	13	5		3.02	13	4	4
C403	Bejo 2951	Bejo		5	11	5		3.00	14	4	4
C421	(7553 x 7808) x 6526 ★	349-5	1	4.5	11.5	4	1	2.98	15	3.5	4
C867	(Nematode S.C.) x 2289 ★★	316-4	1	3.5	12.5	5		2.98	16		
C434	(5280 x 6366) x 7254	752-3	1	5	10	6		2.95	17	4.5	4
C443	(7254 X 9788) X 3999 ★	058-5	2.5	1.5	12.5	5.5		2.95	18	4	4
C455	(6526 x 2144) x 1131	309-5	1	4.5	11.5	5		2.93	19	3	4
C406	(7553 x 5238) x 6526 ★	349-3		7	10.5	4.5		2.89	20	4	4
C422	KXPC-558	Integra		7.5	9.5	5		2.89	21	4	4
C456	VH204	Vilmorin	0.5	8	7.5	6		2.86	22	4	4
C427	S.C. x 9785	B112-3		9	7.5	5.5		2.84	23	4	4
C460	FCR12089	Sakata	2	4.5	10.5	5		2.84	24	3	4
C425	Hoss	Nunhems	3	4	9	6		2.82	25	3	4
C466	Rebel	Nunhems		8.5	10	2.5	1	2.82	26	4	4
C405	FCR13212	Sakata	3	6	7	5	1	2.77	27	3.5	4
C869	(8531 x 3999 ²) x 2289 ★★	316-6	2	5	11	4		2.77	28		
C438	(5280 x 7808) x 8503 ★	246-6		8	11.5	2.5		2.75	29	4	4
C454	Trooper	Nunhems	1	6.5	12	2	0.5	2.75	30	4	4
C870	(Nematode S.C.) x 2157 ★★★	313-2	1	8.5	8.5	3	1	2.75	31		
C429	VH198	Vilmorin		9	10	3		2.73	32	4	4
C418	(7550 x 7808) x 6526 ★	349-4		8.5	11.5	2		2.70	33	4	4
C426	Nematode S.C x 8524 ★★★	347-4	0.5	9	9.5	3		2.68	34	3	4
C457	(8524 x 3999) x 1175 ★★★	310-3	3	4	12	3		2.68	35	4	4
C428	(3999 x 9304) x 1131 ★	308-6	1	8	11	2		2.64	36	3.5	4
C411	(8233 x 7553) x 6333	353-6	3	7.5	6.5	5		2.61	37	3.5	4
C423	(7808 x 9304) x 6526 ★	349-6	1	10	9	0.5	1.5	2.61	38	4	4
C872	(Nematode S.C.) x 2157 ★★★	313-3	2.5	7.5	8	2	1	2.60	39		
C404	(S.C. x 8542) x 1131 ★★	308-5		9	12			2.57	40	4	4
C416	FCR13217	Sakata	2	6.5	12.5	1		2.57	41	4	4
C442	(7241 x 2126) x 8524 ★	248-5	3	7	8.5	3.5		2.57	42	4	4
C871	S.C. x 3363B	B104-4	1.5	8	11.5	1		2.55	43		
C407	S.C. x 3284B ★	B101-3	1	10.5	8.5	2		2.52	44	4	4.5
C409	(7550 x 2327) x 6333	353-5	4	3.5	13.5	1		2.52	45	4	4
C419	S.C. x 3363B ★	B104-3	2	8	10.5	1.5		2.52	46	4	4
C431	(8531 x 3999) x 8524 ★★★	347-5	3	8	7.5	3.5		2.52	47	3	4
C446	NUN 85021	Nunhems	1	11	7.5	2.5		2.52	48	4.5	4.5
C448	KXPC-404	Integra	4	6.5	7.5	4		2.52	49	4	4
C413	CR 2289	Seminis	2	9	9	2		2.50	50	3.5	4
C433	(8524 x 3999 ²) x 8524 ★★★	347-6	1	10	10	1		2.50	51	4	4
C444	SV2384DL	Seminis	3.5	7	8.5	3		2.50	52	4	4
C459	(Nematode S.C.) x 2159 ★★★	314-2	3	9	7	3		2.45	53	3.5	4
C441	CX480	Vilmorin	3	10	6	3		2.41	54	4.5	4

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²	
			1	2	3	4	5			H	S
C452	(8233 x 7553) x 1131	309-4	2	13	4	2	1	2.41	55	3.5	4
C465	(4001 x 6526) x 2159 ★★	314-6	3	7.5	11.5			2.39	56	4	4
C412	(S.C. x 8542) x 1111 ★	303-5	5	7.5	6.5	3		2.34	57	4	4
C437	(8531 x 3999 ²) x 1175 ★★	310-6	4	8.5	7.5	2		2.34	58	4	4
C432	Dominion	Seminis	1	14	6	1		2.32	59	4	4
C445	(6366 x 22226) x 5280	154-7	4	10	5	3		2.32	60	4	4
C424	Nematode S.C x 8524 ★★	347-2	5	8	6.5	2.5		2.30	61	3	4
C415	(3999 x 9304) x 3353 ★★	334-4	6	6	8	2		2.27	62	4	4.5
C435	KXPC-020	Integra	3	11	7	1		2.27	63	4	4.5
C440	(2566 x 5238) x 2205	012-6 '00	4	12	4	2		2.18	64	4	4
C462	(Nematode S.C.) x 2159 ★★	314-4	4	12	4	2		2.18	65	4	4
C447	(8542 x 8524) x 4002 ★★	117-3	7	6	8	1		2.14	66	3.5	4
C436	(7241 x 2126) x 0186	135-2	5	12	3.5	1.5		2.07	67	4	4
C417	(dOr. S.C. x 5438) x 1131	308-3	6	10	5	1		2.05	68	4	4
C414	Nematode S.C. x 3353 ★★	334-2	6	11	2	2		2.00	69	4	4
C461	(Nematode S.C.) x 2159 ★★	314-3	4.5	14.5	3			1.93	70	4	4
C401	Dominion	Seminis		2	6	5		3.23		4	4
C402	Maverick	Nunhems		1	3.5	5.5	4	3.89		4	4

¹ Mean based on average of 22 judges: 1 = unacceptable, 2 = poor, 3 = fair, 4 = good, 5 = excellent.

² Flavor (1 judge):
H = Harshness: 1=Very harsh, 5=Very mild;
S = Sweetness: 1=Not sweet, 5=Very sweet

Each ★ indicates that one parent is a nematode resistant line

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²		
			1	2	3	4	5			H	S	Color
Entries Listed by Field Number												
T401	(7262 x Trksh) x 9304	656-1	3.5	3	8.5	2	1	2.67	15	3	3.5	Purple
T402	Eregli	882-1	1	4	6.5	3.5	3	3.19	4	2	2	Purple
T403	Purple 68	Nunhems	1	2.5	7.5	5	2	3.25	3	3.5	4	Purple
T404	Purple S.C.x 6139	060-2	2	9.5	4.5	2		2.36	25	4	4	Purple
T405	6523 x 8438	277-2	2	6	4	5	1	2.83	9	4.5	3	Purple
T406	Purple Sun	Bejo		9	7	1	1	2.67	16	2.5	3	Purple
T407	(6307 x 6308) x 1129	305-3	8	7.5	2.5			1.69	40	2	3	Purple
T408	(6139 x 6245) x 6360	125-5		7	10	1		2.67	17	2.5	3	Purple
T409	Purple S.C.x 6307	065-3	1.5	7.5	8	1		2.47	21	3.5	3.5	Purple
T410	PurpleSnax	Nunhems	2	9	6		1	2.39	24	2.5	3.5	Purple
T411	Purple S.C.x 8438	088-2	5.5	10	1	1.5		1.92	36	4	3	Purple
T412	Purple S.C.x 6308	066-2	3	13	2			1.94	34	3.5	3.5	Purple
T413	Deep Purple	Bejo		4.5	11.5	2		2.86	8	3.5	3.5	Purple
T414	Purple S.C.x 8197	067-5	8	7	2	1		1.78	39	3.5	3.5	Purple
T415	(7262 x 63082) x 6245	062-4	6	7	4		1	2.06	31	3	3	Purple
T416	Purple Haze	Bejo	5	8	2	3		2.17	30	2.5	3	Purple
T417	1129 x 84382	134-6	6.5	7	3.5	1		1.94	35	3.5	3.5	Purple
T418	(P S.C. x P8438B) x P6308B	346-3	7	7	2.5	1.5		1.92	37	3	3	Purple
T419	(S.C. x 0148) x 8201	275-4	4	8	3	3		2.28	27	3.5	4	Red
T420	432906 x 319858	412-1	1	11	5	1		2.33	26	4	4	Red
T421	Red S.C. x 8197	067-3	5	11	1	1		1.89	38	3	4	Red
T422	Red S.C. x 0148,6220	252-4		7	10	1		2.67	18	2	3.5	Red
T423	(Red S.C. x 6259) x 8201	131-2		6	7	4		2.88	7	3	4	Red
T424	(Red S.C. x 6259) x 8201	275-3		7	7	3	1	2.89	6	3	4.5	Red
T425	(5280 x 6366) x Red	412-5		7.5	8	2.5		2.72	13	3.5	4	Red
T426	(Red S.C. x 6259) x 8197	273-4	1.5	4	8.5	3		2.76	11	4	4	Red
T427	(8197A x (PI x PI)) x 8201	089-2	1	6	7	4		2.78	10	3	3	Red
T428	(S.C. x 0148) x 8197	273-5	4.5	9.5	3	1		2.03	32	3	3.5	Red
T429	(8197A x (PI x PI)) x 8201P	131-3		9	5.5	3.5		2.69	14	4	3.5	Red
T430	(Red S.C. x 6220) x 8201	275-2	1	12.5	4.5			2.19	29	3.5	3.5	Red
T431	CreamPak	Nunhems		2	6.5	7	2.5	3.56	2	4	4	Cream
T432	Mello Yello	Bejo	2	7.5	7.5	1		2.42	23	3.5	3	Yellow
T433	JOD x W. Belgian	916-1	1	8	6.5	2.5		2.58	19	4	3	Yellow
T434	YellowBunch	Nunhems	0.5	2.5	10.5	4.5		3.06	5	4	4	Yellow
T435	Yellowstone	Bejo	1.5	11	5.5			2.22	28	4	4	Yellow
T436	(2566 x 6253) x dYellow	310-2	0.5	7.5	6	4		2.75	12	3.5	4	Yellow
T437	710015	Seminis	5.5	9.5	1	1	1	2.03	33	4.5	4	Yellow
T438	Snowman	Nunhems		3	3	8	4	3.72	1	3.5	3.5	White
T439	White	885-1	0.5	9.5	6	1		2.44	22	2.5	4	White
T440	White Satin	Bejo	3	4.5	6.5	3		2.56	20	4.5	4	White

¹ Mean based on average of 18 judges: 1 = unacceptable, 2 = poor, 3 = fair, 4 = good, 5 = excellent.

² Flavor (1 judge):
 H = Harshness: 1=Very harsh, 5=Very mild;
 S = Sweetness: 1=Not sweet, 5=Very sweet

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²		
			1	2	3	4	5			H	S	Color
Entries Listed by Rank												
T438	Snowman	Nunhems		3	3	8	4	3.72	1	3.5	3.5	White
T431	CreamPak	Nunhems		2	6.5	7	2.5	3.56	2	4	4	Cream
T403	Purple 68	Nunhems	1	2.5	7.5	5	2	3.25	3	3.5	4	Purple
T402	Eregli	882-1	1	4	6.5	3.5	3	3.19	4	2	2	Purple
T434	YellowBunch	Nunhems	0.5	2.5	10.5	4.5		3.06	5	4	4	Yellow
T424	(Red S.C. x 6259) x 8201	275-3		7	7	3	1	2.89	6	3	4.5	Red
T423	(Red S.C. x 6259) x 8201	131-2		6	7	4		2.88	7	3	4	Red
T413	Deep Purple	Bejo		4.5	11.5	2		2.86	8	3.5	3.5	Purple
T405	6523 x 8438	277-2	2	6	4	5	1	2.83	9	4.5	3	Purple
T427	(8197A x (PI x PI)) x 8201	089-2	1	6	7	4		2.78	10	3	3	Red
T426	(Red S.C. x 6259) x 8197	273-4	1.5	4	8.5	3		2.76	11	4	4	Red
T436	(2566 x 6253) x dYellow	310-2	0.5	7.5	6	4		2.75	12	3.5	4	Yellow
T425	(5280 x 6366) x Red	412-5		7.5	8	2.5		2.72	13	3.5	4	Red
T429	(8197A x (PI x PI)) x 8201P	131-3		9	5.5	3.5		2.69	14	4	3.5	Red
T401	(7262 x Trksh) x 9304	656-1	3.5	3	8.5	2	1	2.67	15	3	3.5	Purple
T406	Purple Sun	Bejo		9	7	1	1	2.67	16	2.5	3	Purple
T408	(6139 x 6245) x 6360	125-5		7	10	1		2.67	17	2.5	3	Purple
T422	Red S.C. x 0148,6220	252-4		7	10	1		2.67	18	2	3.5	Red
T433	JOD x W. Belgian	916-1	1	8	6.5	2.5		2.58	19	4	3	Yellow
T440	White Satin	Bejo	3	4.5	6.5	3		2.56	20	4.5	4	White
T409	Purple S.C.x 6307	065-3	1.5	7.5	8	1		2.47	21	3.5	3.5	Purple
T439	White	885-1	0.5	9.5	6	1		2.44	22	2.5	4	White
T432	Mello Yello	Bejo	2	7.5	7.5	1		2.42	23	3.5	3	Yellow
T410	PurpleSnax	Nunhems	2	9	6		1	2.39	24	2.5	3.5	Purple
T404	Purple S.C.x 6139	060-2	2	9.5	4.5	2		2.36	25	4	4	Purple
T420	432906 x 319858	412-1	1	11	5	1		2.33	26	4	4	Red
T419	(S.C. x 0148) x 8201	275-4	4	8	3	3		2.28	27	3.5	4	Red
T435	Yellowstone	Bejo	1.5	11	5.5			2.22	28	4	4	Yellow
T430	(Red S.C. x 6220) x 8201	275-2	1	12.5	4.5			2.19	29	3.5	3.5	Red
T416	Purple Haze	Bejo	5	8	2	3		2.17	30	2.5	3	Purple
T415	(7262 x 63082) x 6245	062-4	6	7	4		1	2.06	31	3	3	Purple
T428	(S.C. x 0148) x 8197	273-5	4.5	9.5	3	1		2.03	32	3	3.5	Red
T437	710015	Seminis	5.5	9.5	1	1	1	2.03	33	4.5	4	Yellow
T412	Purple S.C.x 6308	066-2	3	13	2			1.94	34	3.5	3.5	Purple
T417	1129 x 84382	134-6	6.5	7	3.5	1		1.94	35	3.5	3.5	Purple
T411	Purple S.C.x 8438	088-2	5.5	10	1	1.5		1.92	36	4	3	Purple
T418	(P S.C. x P8438B) x P6308B	346-3	7	7	2.5	1.5		1.92	37	3	3	Purple
T421	Red S.C. x 8197	067-3	5	11	1	1		1.89	38	3	4	Red
T414	Purple S.C.x 8197	067-5	8	7	2	1		1.78	39	3.5	3.5	Purple
T407	(6307 x 6308) x 1129	305-3	8	7.5	2.5			1.69	40	2	3	Purple

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