



United States Department of Agriculture

Research, Education, and Economics
Agricultural Research Service

September 20, 2005

Subject: Results of 2005 USDA Wisconsin Carrot Trials
To: Trial Participants
From: Phil Simon

The results of the 2005 Wisconsin Trials are attached. We had 12 participants provide their expert opinions of overall performance. In addition, flavor, was measured. We were simulating “baby” production with our high-density plantings. We planted seed by hand in two 5-7 cm bands (10-15 cm centers) in raised beds on Hancock sand May 26 thinned to 90 plants/meter, and harvested September 7. Replicates were planted and quality was generally very good.

This year we also had our first “novelty” carrot trial. Performance overall was acceptable and several interesting entries scored well.

Judges gave quite consistent scores. Note that four lists of results are enclosed - one by Field Number and one by Rank for each of the two trials, “baby” and “novelty”.

We were pleased to receive the evaluations of judges who were able to attend. Thanks. We are very grateful to Miller Farms for providing land, water, pest control, and encouragement for these trials. We also thank the staff of the UW Hancock Station for their cooperation and assistance. Their patience and help is greatly appreciated. Without our cooperators, and your participation, these trials would not be possible.



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An Equal Opportunity Employer

USDA Wisconsin Carrot Trials 2005

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											
501	TopCut 93	Nunhems			6	5	1	3.58	Std	3.5	4
502	Enterprise	Seminis		4	3	4	1	3.17	Std	3	4
503	KXPC-162	Integra	3	5	4			2.08	43	2	3
504	RNF04-128	Crookham	3	7	1	1		2.00	45	4	3.5
505	(6333 × 8233) × 6526	162-5	4	3	3	1	1	2.33	39	4	3.5
506	XCR-3617	Sakata		1	1	1.5	8.5	4.46	2	2.5	4
507	Independent	Bejo			4.5	6.5	1	3.71	14	3	3
508	(2126A × 6253B) × 3035B	322-2	1	3	6	2		2.75	28	2	3.5
509	KXPC-165	Integra		2	2.5	7.5		3.46	19	3	3
510	(2566A × 6253B) × 1111	137-5	3	5	4			2.08	44	3	3
511	NRC 8564	Nunhems			7	4	1	3.50	16	4	3.5
512	Enterprise	Seminis		2	7	2	1	3.17	22	2	3
513	(6274 × 5280) × 8378	815-4	1	5	5	1		2.50	36	4	2.5
514	LI5010	Harris Moran	4	2	6			2.17	41	2.5	3.5
515	(6333 × 8378) × 2254	147-5	5	4	3			1.83	50	4.5	2.5
516	NRC 8568	Nunhems	4	5	3			1.92	47	3.5	3.5
517	(9304 × 5238) × 2126	608-3	4	5	3			1.92	48	3	3
518	RIF98-2	Crookham	1	5	4	2		2.58	33	2.5	3.5
519	(6253 × 2144) × 2126	145-2	4	6	2			1.83	51	3	3
520	711405	Seminis	1	3	7	1		2.67	31	2.5	3
521	(6253S × 2144) × 7322	296-3	2	4	5	1		2.42	38	2	2
522	NRC 8574	Nunhems		1	1	9	1	3.83	11	2.5	3
523	(6366A × 2226B) × 2144B	011-9		1.5	9.5		1	3.04	25	3	3.5
524	Interceptor	Bejo			2.5	8.5	1	3.88	9	4	3
525	71 1441	Seminis			2	8	2	4.00	7	4	3.5
526	(5238A × 9304B) × 6526B	025-4	3	4	5			2.17	42	3	3
527	XCR-9840	Sakata		1	7	3	1	3.33	20	4	4
528	NRC 8557	Nunhems			2.5	6.5	3	4.04	6	2.5	3
529	(5280A × 6366B) × V.long	320-3		2	7	3		3.08	24	2.5	3
530	(2126 × 7808) × 7322	168-6			1	6.5	4.5	4.29	3	4	3
531	71 1435	Seminis		1	1.5	4.5	5	4.13	5	2	3
532	HMX 2293	Harris Moran		5	5	2		2.75	29	5	4
533	(7241A × 2126B) × 0186	135-2		2	6	4		3.17	23	4	3.5
534	Imperial Cuts	Integra		1	7	4		3.25	21	3	3.5
535	NRC 3325	Nunhems				12		3.00	26	4.5	4
536	(6253A × 2144B) × 6333B	023-11			6	6		3.50	17	3.5	3
537	XCR-4762	Sakata		1	3.5	5.5	2	3.71	15	3.5	3
538	Nevada	Bejo		4	5	3		2.92	27	2.5	3
539	(5280A × 7808B) × 1111	225-7	3	7	2			1.92	49	2.5	3
540	RNF04-75	Crookham	1	3	7	1		2.67	32	3	3
541	KXPC-060	Integra			4	7	1	3.75	13	4	3
542	(6366 × 2226) × 5438	157-7			2.5	7.5	2	3.96	8	3.5	3
543	XCR-9650	Sakata			1	4	7	4.50	1	4	3.5
544	(6333A × 8233B) × 1111	137-3		4	7	1		2.75	30	3.5	3
545	Inverness	Bejo				9	3	4.25	4	3.5	4
546	(5280 × 6274L) × 5494	733-4	5	5	2			1.75	53	4	4
547	XCR-9850	Sakata			4	6	2	3.83	12	2.5	3.5
548	RNF04-74	Crookham		1	5	5	1	3.50	18	3.5	4
549	(5280A × 6366B) × FN2-9	487-3	2	2	7	1		2.58	34	3	3.5
550	TopCut 93	Nunhems			3.5	6.5	2	3.88	10	4	4
551	(2144 × 2126) × 6526	162-6	1	5	4	2		2.58	35	3	3
552	71 1433	Seminis	5	4	3			1.83	52	2.5	3
553	LI5009	Harris Moran	2	4	4	2		2.50	37	4	4
554	(6333A × 5438C) × 7808B	029-11	1	7	3	1		2.33	40	3	4.5
555	KXPC-140	Integra	4	5	2	1		2.00	46	2.5	4
Average Score								3.00			

¹ Mean based on average of 12 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

USDA Wisconsin Carrot Trials 2005

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											
543	XCR-9650	Sakata			1	4	7	4.50	1	4	3.5
506	XCR-3617	Sakata	1	1	1.5	8.5	4.46	2	2.5	4	
530	(2126 × 7808) × 7322	168-6			1	6.5	4.5	4.29	3	4	3
545	Inverness	Bejo				9	3	4.25	4	3.5	4
531	71 1435	Seminis	1	1.5	4.5	5	4.13	5	2	3	
528	NRC 8557	Nunhems			2.5	6.5	3	4.04	6	2.5	3
525	71 1441	Seminis			2	8	2	4.00	7	4	3.5
542	(6366 × 2226) × 5438	157-7			2.5	7.5	2	3.96	8	3.5	3
524	Interceptor	Bejo			2.5	8.5	1	3.88	9	4	3
550	TopCut 93	Nunhems			3.5	6.5	2	3.88	10	4	4
522	NRC 8574	Nunhems	1	1	9	1	3.83	11	2.5	3	
547	XCR-9850	Sakata			4	6	2	3.83	12	2.5	3.5
541	KXPC-060	Integra			4	7	1	3.75	13	4	3
507	Independent	Bejo			4.5	6.5	1	3.71	14	3	3
537	XCR-4762	Sakata	1	3.5	5.5	2	3.71	15	3.5	3	
511	NRC 8564	Nunhems			7	4	1	3.50	16	4	3.5
536	(6253A × 2144B) × 6333B	023-11			6	6		3.50	17	3.5	3
548	RNF04-74	Crookham	1	5	5	1	3.50	18	3.5	4	
509	KXPC-165	Integra	2	2.5	7.5		3.46	19	3	3	
527	XCR-9840	Sakata	1	7	3	1	3.33	20	4	4	
534	Imperial Cuts	Integra	1	7	4		3.25	21	3	3.5	
512	Enterprise	Seminis	2	7	2	1	3.17	22	2	3	
533	(7241A × 2126B) × 0186	135-2	2	6	4		3.17	23	4	3.5	
529	(5280A × 6366B) × V.long	320-3	2	7	3		3.08	24	2.5	3	
523	(6366A × 2226B) × 2144B	011-9	1.5	9.5		1	3.04	25	3	3.5	
535	NRC 3325	Nunhems				12	3.00	26	4.5	4	
538	Nevada	Bejo			4	5	3	2.92	27	2.5	3
508	(2126A × 6253B) × 3035B	322-2	1	3	6	2	2.75	28	2	3.5	
532	HMX 2293	Harris Moran			5	5	2	2.75	29	5	4
544	(6333A × 8233B) × 1111	137-3			4	7	1	2.75	30	3.5	3
520	711405	Seminis	1	3	7	1	2.67	31	2.5	3	
540	RNF04-75	Crookham	1	3	7	1	2.67	32	3	3	
518	RIF98-2	Crookham	1	5	4	2	2.58	33	2.5	3.5	
549	(5280A × 6366B) × FN2-9	487-3	2	2	7	1	2.58	34	3	3.5	
551	(2144 × 2126) × 6526	162-6	1	5	4	2	2.58	35	3	3	
513	(6274 × 5280) × 8378	815-4	1	5	5	1	2.50	36	4	2.5	
553	LI5009	Harris Moran	2	4	4	2	2.50	37	4	4	
521	(6253S × 2144) × 7322	296-3	2	4	5	1	2.42	38	2	2	
505	(6333 × 8233) × 6526	162-5	4	3	3	1	2.33	39	4	3.5	
554	(6333A × 5438C) × 7808B	029-11	1	7	3	1	2.33	40	3	4.5	
514	LI5010	Harris Moran	4	2	6		2.17	41	2.5	3.5	
526	(5238A × 9304B) × 6526B	025-4	3	4	5		2.17	42	3	3	
503	KXPC-162	Integra	3	5	4		2.08	43	2	3	
510	(2566A × 6253B) × 1111	137-5	3	5	4		2.08	44	3	3	
504	RNF04-128	Crookham	3	7	1	1	2.00	45	4	3.5	
555	KXPC-140	Integra	4	5	2	1	2.00	46	2.5	4	
516	NRC 8568	Nunhems	4	5	3		1.92	47	3.5	3.5	
517	(9304 × 5238) × 2126	608-3	4	5	3		1.92	48	3	3	
539	(5280A × 7808B) × 1111	225-7	3	7	2		1.92	49	2.5	3	
515	(6333 × 8378) × 2254	147-5	5	4	3		1.83	50	4.5	2.5	
519	(6253 × 2144) × 2126	145-2	4	6	2		1.83	51	3	3	
552	71 1433	Seminis	5	4	3		1.83	52	2.5	3	
546	(5280 × 6274L) × 5494	733-4	5	5	2		1.75	53	4	4	
501	TopCut 93	Nunhems			6	5	1	3.58	Std	3.5	4
502	Enterprise	Seminis	4	3	4	1	3.17	Std	3	4	
Average Score								3.00			

¹ Mean based on average of 12 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		Rank in color class ³
			1	2	3	4	5			H	S	
Entries Listed by Field Number												
N501	Rainbow	Bejo		2		5	1	3.63	4	2.5	4	Or, Y, W 1/1
N502	[9304B × (7262 × Trksh)PYP]Thick P Or	38342⊗	4	2	1			1.57	48			P 22/24
N503	(Trksh × 7262)POr	70474⊗	1	4		3		2.63	26			P 12/24
N504	7262B cg (Trksh × 7262)POr	203-6	1	5	1	1		2.25	35			P 14/24
N505	7262 × Turkish	218-6		2	3	1	2	3.38	8			P 4/24
N506	7262 × Turkish	218-7		1	2	2	3	3.88	2	4	4	P 1/24
N507	7262B × Turkish	218-1		1	3	3	1	3.50	7			P 3/24
N508	Turkish × 5280	70394M	3	4		1		1.88	44			P 20/24
N509	PI 223504	70504M	6	1				1.14	49			P 23/24
N510	7262 × Turkish	70514⊗	3	2	3			2.00	40			P 16/24
N511	Mix: Turkish×7262 & [(7262× Turkish)×(7262×Turkish)]×PY	107-14,15	4	2	1		1	2.00	41			P 17/24
N512	Turkish #2	131-7		1	4	3		3.25	12			P 7/24
N513	Turkish × 5280	205-1			5	1	2	3.63	5	4	4	P 2/24
N514	7262 × Turkish	218-4	2	3		1		2.00	42			P 18/24
N515	7262 × Turkish	218-5		1	4	2	1	3.38	9	5	3.5	P 5/24
N516	Homs	70478M	1	7				1.88	45			P 21/24
N517	7262 × Turkish	70516⊗		4	4			2.50	32			P 13/24
N518	Homs	203-11		5		3		2.75	21			P 8/24
N519	(Trksh #2)PYP	206-8	5					1.00	50			P 24/24
N520	7262 × Turkish	70512⊗						No Roots	51			P —
N521	Eregli dP	005-2	3	2	1	1		2.00	43			P 19/24
N522	Eregli Turkey 1999	217-3						No Roots	52			P —
N523	Purple Haze	Bejo	1	2	3	2		2.75	22			P 9/24
N524	KXPC-402	Integra	2	3	3			2.13	38			P 15/24
N525	NRC L11	Nunhems	1	2	4		1	2.75	23	4	4	P 10/24
N526	NRC P121	Nunhems			6	1	1	3.38	10	2	3	P 6/24
N527	71 0603	Seminis	1	1	5	1		2.75	24			P 11/24
N528	432906PRC × 319858JP	70528M		6		1	1	2.63	27			R 3/7
N529	432906PRC × 319858JP	209-1	3	5				1.63	47			R 7/7
N530	[432906PRC × 319858JP, Kintoki, PI432903] × Flavor	213-1	2	3	2	1		2.25	36			R 5/7
N531	432906PRC × 319858JP	305-1	2	3	1	1		2.14	37			R 6/7
N532	Kintoki cg Flavor	328-3		3	5			2.63	28			R 4/7
N533	Nutired	Seminis			3.5	1.5	3	3.94	1	2	4	R 1/7
N534	[(Trksh × 7262) × Bst Flvr]Y	70370⊗	1	5	2			2.13	39			Y 13/14
N535	WAR × JOD	702-5		1	3	4		3.38	11	3.5	4	Y 3/14
N536	Lobbericher	102-2			4	3	1	3.63	6			Y 2/14
N537	Forage carrot-Jaune Obtuse de Doubs	102-3		2	6			2.75	25			Y 10/14
N538	W.Belgian × JOD	211-1		2	4	2		3.00	16			Y 6/14
N539	W.Belgian × JOD	310-1		4	4			2.50	33	4	3.5	Y 11/14
N540	Mello Yello	Bejo			4	2	2	3.75	3	3	3	Y 1/14
N541	Yellowstone	Bejo		1	4	3		3.25	13	1	3	Y 4/14
N542	NRC P123	Nunhems	1	1	5		1	2.88	18	2	3.5	Y 8/14
N543	NRC 8900	Nunhems	1	3	3	1		2.50	34	1	3	Y 12/14
N544	710004	Seminis	3	3	2			1.88	46			Y 14/14
N545	710005	Seminis		4	2	1	1	2.88	19			Y 9/14
N546	710009	Seminis		1	4	3		3.25	14	2	3	Y 5/14
N547	710011	Seminis		2	4	2		3.00	17			Y 7/14
N548	BCVTHT × WWortel	105-1	1	2	3	1	1	2.88	20	3.5	3	W 1/1
N549	Kuroda 563	Emerald	1	2	4	1		2.63	29			Or 2/4
N550	Kuroda 704	Emerald	1	3	2	2		2.63	30			Or 3/4
N551	EM Brandy 818	Emerald	1		4	2	1	3.25	15			Or 1/4
N552	Kuroda 950	Emerald	1	1	6			2.63	31			Or 4/4
Average Score								2.68				

¹ Mean based on average of 8 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

³ P=Purple, R=Red, Y=Yellow, Or=Orange, W=White; Number is Rank / Number in this color class

Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²		Rank in color class
			1	2	3	4	5			H	S	
Entries Listed by Rank												
N533	Nutired	Seminis			3.5	1.5	3	3.94	1	2	4	R 1/7
N506	7262 × Turkish	218-7	1	2	2	3	3.88	2	4	4	P 1/24	
N540	Mello Yello	Bejo			4	2	2	3.75	3	3	3	Y 1/14
N501	Rainbow	Bejo	2		5	1	3.63	4	2.5	4	Or, Y, W	1/1
N513	Turkish × 5280	205-1			5	1	2	3.63	5	4	4	P 2/24
N536	Lobbericher	102-2			4	3	1	3.63	6			Y 2/14
N507	7262B × Turkish	218-1	1	3	3	1	3.50	7				P 3/24
N505	7262 × Turkish	218-6	2	3	1	2	3.38	8				P 4/24
N515	7262 × Turkish	218-5	1	4	2	1	3.38	9	5	3.5		P 5/24
N526	NRC P121	Nunhems			6	1	1	3.38	10	2	3	P 6/24
N535	WAR × JOD	702-5	1	3	4		3.38	11	3.5	4		Y 3/14
N512	Turkish #2	131-7	1	4	3		3.25	12				P 7/24
N541	Yellowstone	Bejo	1	4	3		3.25	13	1	3		Y 4/14
N546	710009	Seminis	1	4	3		3.25	14	2	3		Y 5/14
N551	EM Brandy 818	Emerald	1	4	2	1	3.25	15				Or 1/4
N538	W.Belgian × JOD	211-1	2	4	2		3.00	16				Y 6/14
N547	710011	Seminis	2	4	2		3.00	17				Y 7/14
N542	NRC P123	Nunhems	1	1	5		1	2.88	18	2	3.5	Y 8/14
N545	710005	Seminis	4	2	1	1	2.88	19				Y 9/14
N548	BCVTHT × WWortel	105-1	1	2	3	1	1	2.88	20	3.5	3	W 1/1
N518	Homs	203-11		5	3		2.75	21				P 8/24
N523	Purple Haze	Bejo	1	2	3	2	2.75	22				P 9/24
N525	NRC L11	Nunhems	1	2	4		1	2.75	23	4	4	P 10/24
N527	71 0603	Seminis	1	1	5	1	2.75	24				P 11/24
N537	Forage carrot-Jaune Obtuse de Doubs	102-3		2	6		2.75	25				Y 10/14
N503	(Trksh × 7262)POr	70474⊗	1	4		3	2.63	26				P 12/24
N528	432906PRC × 319858JP	70528M	6		1	1	2.63	27				R 3/7
N532	Kintoki cg Flavor	328-3	3	5			2.63	28				R 4/7
N549	Kuroda 563	Emerald	1	2	4	1	2.63	29				Or 2/4
N550	Kuroda 704	Emerald	1	3	2	2	2.63	30				Or 3/4
N552	Kuroda 950	Emerald	1	1	6		2.63	31				Or 4/4
N517	7262 × Turkish	70516⊗	4	4			2.50	32				P 13/24
N539	W.Belgian × JOD	310-1		4	4		2.50	33	4	3.5		Y 11/14
N543	NRC 8900	Nunhems	1	3	3	1	2.50	34	1	3		Y 12/14
N504	7262B cg (Trksh × 7262)POr	203-6	1	5	1	1	2.25	35				P 14/24
N530	[432906PRC × 319858JP, Kintoki, PI432903] × Flavor	213-1	2	3	2	1	2.25	36				R 5/7
N531	432906PRC × 319858JP	305-1	2	3	1	1	2.14	37				R 6/7
N524	KXPC-402	Integra	2	3	3		2.13	38				P 15/24
N534	[(Trksh × 7262) × Bst Flvr]Y	70370⊗	1	5	2		2.13	39				Y 13/14
N510	7262 × Turkish	70514⊗	3	2	3		2.00	40				P 16/24
N511	Mix: Turkish×7262 & [(7262× Turkish)×(7262×Turkish)]×PY	107-14,15	4	2	1	1	2.00	41				P 17/24
N514	7262 × Turkish	218-4	2	3	1		2.00	42				P 18/24
N521	Eregli dP	005-2	3	2	1	1	2.00	43				P 19/24
N508	Turkish × 5280	70394M	3	4		1	1.88	44				P 20/24
N516	Homs	70478M	1	7			1.88	45				P 21/24
N544	710004	Seminis	3	3	2		1.88	46				Y 14/14
N529	432906PRC × 319858JP	209-1	3	5			1.63	47				R 7/7
N502	[9304B × (7262 × Trksh)PYP]Thick P Or	38342⊗	4	2	1		1.57	48				P 22/24
N509	PI 223504	70504M	6	1			1.14	49				P 23/24
N519	(Trksh #2)PYP	206-8	5				1.00	50				P 24/24
N520	7262 × Turkish	70512⊗					No Roots	51				P —
N522	Eregli Turkey 1999	217-3					No Roots	52				P —
Average Score								2.68				

¹ Mean based on average of 8 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

³ P=Purple, R=Red, Y=Yellow, Or=Orange, W=White; Number is Rank / Number in this color class