



United States Department of Agriculture

Research, Education, and Economics
Agricultural Research Service

September 4, 2007

Subject: Results of 2007 USDA Wisconsin Carrot Trials
To: Trial Participants
From: Phil Simon

The results of the 2007 Wisconsin Trials are attached, along with your score sheet. We had 15 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 April 27 thinned to 90 plants/meter, and harvested August 27. Replicates were planted and quality was generally very good.

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

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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USDA Wisconsin Carrot Trials 2007

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											
701	Enterprise	Seminis		3	7	5		3.13	Std	2	4
702	Uppercut	Nunhems			6.5	7.5	1	3.63	Std	3	4
703	(6366 × 2205) × 6253	641-8	2	8.5	4.5			2.17	35	2	3
704	Tastypeel	Seminis		3	5	5.5	1.5	3.37	6	4	3
705	(6253 × 2144) × 7322	296-3	2	7.5	5.5			2.23	34	2	3
706	Unknown 4/30/07	??		4.5	9	1.5		2.80	22	4	3.5
707	(6366 × 8378) × 7322	491-5	3	12				1.80	39	2	2.5
708	HMX 2280	HM	2	5	5.5	2.5		2.57	28	3	3
709	(6253 × 2144) × 9256	395-2		2	6	7		3.33	8	3	3
710	Propceel	Seminis			1	5	9	4.53	1	2.5	3
711	(6274 × 5280) × 8378	815-4		3	5.5	5.5	1	3.30	9	3	3
712	B-2724	Bejo		3.5	7	4.5		3.07	16	3.5	3
713	Enterprise	Seminis		1	6.5	7.5		3.43	5	4.5	3
714	(5280 × 7808) × 6253	641-3		3.5	6.5	5		3.10	13	4	4
715	KXPC-222R	Integra			5.5	9	0.5	2.67	27	2	3
716	(5280 × 7808) × 1111	225-7	1	4.5	6	2.5	1	2.87	19	3.5	3.5
717	NBC M469	Nunhems	2	6	6	1		2.40	32	2	3
718	(6366 × 2226) × 2144	011-9	1	3	11	0.5		2.70	25	3	3.5
719	XCR-2428	Sakata		1.5	5.5	7	1	3.50	4	4	4
720	Uppercut	Nunhems		3.5	4.5	6.5	0.5	3.27	11	3	3
721	(6333 × 8483MjR) × 2126	145-3	5	6.5	3.5			1.90	38	3.5	3
722	KXPC-107	Integra		2	3	10		3.53	3	4	3.5
723	(2126 × 7808) × 7322	168-6	3	3	8	1		2.47	30	4	3
724	Adelaide F1	Bejo	10	4		1		1.47	41	4.5	2
725	(6366 × 8378) × 7403	240-7	5	6.5	2.5	1		1.97	36	3.5	3
726	TopCut	Nunhems	0.5	1	9.5	3	1	3.20	12	3.5	4
727	KXPC-107	Integra		2.5	6.5	5	1	3.30	10	4	4
728	71 1603	Seminis	1	4	6.5	3	0.5	2.87	20	3	3.5
729	(6274 × 5280) × 7403MjR	820-4	1	5	5	4		2.80	23	3.5	3
730	HMX 3297	HM	2	1	10	1	1	2.87	21	4	3
731	(7241 × 2126) × 0186	135-2	8	4	2	1		1.73	40	2.5	2
732	71 1405	Seminis	1	2	6.5	5.5		3.10	14	3	3
733	(5280 × 7808) × 9256	254-4	1	7	5.5	1.5		2.50	29	3	3
734	B-2702	Bejo	10	4		1		1.47	42	4	3
735	Copperhead	Sakata	1.5	3.5	5	5		2.90	18	4	3.5
736	(6253 × 2144) × 6333	023-11	1	5	6	3		2.73	24	2	3
737	71 1441	Seminis	0.5	2.5	2.5	7	2.5	3.57	2	3	3.5
738	(6366 × 2226) × 5438	157-7	0.5	1	7	5.5	1	3.37	7	2.5	3
739	Imperialcuts	Integra	1	8.5	3.5	2		2.43	31	3	3.5
740	Mokum F1	Bejo	0.5	7.5	4	2	1	2.70	26	4	3.5
741	SugarSnax	Nunhems	0.5	4	5.5	5		3.00	17	2.5	3
742	(2302 × 6366) × 7322	168-5	5	6	4			1.93	37	3	3
743	Nun 8577	Nunhems	1.5	2.5	5	5	1	3.10	15	3	3.5
744	(5280 × 6366) × 1111	225-2	3	6	4.5	1.5		2.30	33	3.5	3
Average Score								2.80			

¹ Mean based on average of 15 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 2007

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											
710	Propeel	Seminis			1	5	9	4.53	1	2.5	3
737	71 1441	Seminis	0.5	2.5	2.5	7	2.5	3.57	2	3	3.5
722	KXPC-107	Integra		2	3	10		3.53	3	4	3.5
719	XCR-2428	Sakata		1.5	5.5	7	1	3.50	4	4	4
713	Enterprise	Seminis		1	6.5	7.5		3.43	5	4.5	3
704	Tastypeel	Seminis		3	5	5.5	1.5	3.37	6	4	3
738	(6366 × 2226) × 5438	157-7	0.5	1	7	5.5	1	3.37	7	2.5	3
709	(6253 × 2144) × 9256	395-2		2	6	7		3.33	8	3	3
711	(6274 × 5280) × 8378	815-4		3	5.5	5.5	1	3.30	9	3	3
727	KXPC-107	Integra		2.5	6.5	5	1	3.30	10	4	4
720	Uppercut	Nunhems		3.5	4.5	6.5	0.5	3.27	11	3	3
726	TopCut	Nunhems	0.5	1	9.5	3	1	3.20	12	3.5	4
714	(5280 × 7808) × 6253	641-3		3.5	6.5	5		3.10	13	4	4
732	71 1405	Seminis	1	2	6.5	5.5		3.10	14	3	3
743	Nun 8577	Nunhems	1.5	2.5	5	5	1	3.10	15	3	3.5
712	B-2724	Bejo		3.5	7	4.5		3.07	16	3.5	3
741	SugarSnax	Nunhems	0.5	4	5.5	5		3.00	17	2.5	3
735	Copperhead	Sakata	1.5	3.5	5	5		2.90	18	4	3.5
716	(5280 × 7808) × 1111	225-7	1	4.5	6	2.5	1	2.87	19	3.5	3.5
728	71 1603	Seminis	1	4	6.5	3	0.5	2.87	20	3	3.5
730	HMX 3297	HM	2	1	10	1	1	2.87	21	4	3
706	Unknown 4/30/07	??		4.5	9	1.5		2.80	22	4	3.5
729	(6274 × 5280) × 7403MjR	820-4	1	5	5	4		2.80	23	3.5	3
736	(6253 × 2144) × 6333	023-11	1	5	6	3		2.73	24	2	3
718	(6366 × 2226) × 2144	011-9	1	3	11	0.5		2.70	25	3	3.5
740	Mokum F1	Bejo	0.5	7.5	4	2	1	2.70	26	4	3.5
715	KXPC-222R	Integra		5.5	9	0.5		2.67	27	2	3
708	HMX 2280	HM	2	5	5.5	2.5		2.57	28	3	3
733	(5280 × 7808) × 9256	254-4	1	7	5.5	1.5		2.50	29	3	3
723	(2126 × 7808) × 7322	168-6	3	3	8	1		2.47	30	4	3
739	Imperialcuts	Integra	1	8.5	3.5	2		2.43	31	3	3.5
717	NBC M469	Nunhems	2	6	6	1		2.40	32	2	3
744	(5280 × 6366) × 1111	225-2	3	6	4.5	1.5		2.30	33	3.5	3
705	(6253 × 2144) × 7322	296-3	2	7.5	5.5			2.23	34	2	3
703	(6366 × 2205) × 6253	641-8	2	8.5	4.5			2.17	35	2	3
725	(6366 × 8378) × 7403	240-7	5	6.5	2.5	1		1.97	36	3.5	3
742	(2302 × 6366) × 7322	168-5	5	6	4			1.93	37	3	3
721	(6333 × 8483MjR) × 2126	145-3	5	6.5	3.5			1.90	38	3.5	3
707	(6366 × 8378) × 7322	491-5	3	12				1.80	39	2	2.5
731	(7241 × 2126) × 0186	135-2	8	4	2	1		1.73	40	2.5	2
724	Adelaide F1	Bejo	10	4		1		1.47	41	4.5	2
734	B-2702	Bejo	10	4		1		1.47	42	4	3
701	Enterprise	Seminis		3	7	5		3.13	Std	2	4
702	Uppercut	Nunhems			6.5	7.5	1	3.63	Std	3	4
Average Score								2.80			

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Entry	Pedigree or Name	Source	Number of Judges Placing in Class					Mean ¹	Rank	Flavor ²		Color
			1	2	3	4	5			H	S	
Entries Listed by Field Number												
N701	Purple Rain	Bejo		3.5	7.5	2.5	0.5	3.00	5	2.5	3	Purple
N702	KXPC-402	Integra	5	7	1	1		1.86	35	2	3	Purple
N703	7262 × Turkish	218-1		11	2.5	1		2.32	28	3.5	3	Purple
N704	No Germ Seed								9999			
N705	Dark Purple/ Orange	665-1		3	7	1.5	2.5	3.25	1	2.5	4	Purple
N706	Purple Haze	Bejo	1	8	2	2	1	2.57	22	4	3.5	Purple
N707	Dark Purple	657-1	5	6	2	1		1.93	34	2	3.5	Purple
N708	Dark Purple	651-1	7	3	4			1.79	37	3	4	Purple
N709	Dark Purple	699-1	5	7	2			1.79	38	3	3	Purple
N710	No Germ Seed								9999			
N711	No Germ Seed								9999			
N712	Kintoki	001-3	5	3.5	2.5	3		2.25	29	3	3.5	Red
N713	Dark Red Flavor Select	650-1	0.5	3.5	6.5	2.5	1	3.00	6	2	3	Red
N714	(5280 × 6366) × Red	412-5	2	5	3.5	3.5		2.61	21	3	3	Red
N715	Red Flavor Select	652-1	2.5	7.5	3	1		2.18	30	4	3	Red
N716	Red	697-1	5	5	3	1		2.00	33	1	3	Red
N717	(5280 × 6366) × Red	411-2	3	5	3	3		2.43	24	3.5	3	Red
N718	[(2566 × 6253) × Red] × PI432903	303-2	9.5	4.5				1.32	39	1	3	Red
N719	432906PRC × 319858JP	412-1	2	6	5	1		2.36	26	2.5	3	Red
N720	(LWG-S × PI264543 ²) × (PI264543 × 2566)	410-1	1	2	8.5	1.5		2.96	8	1	3.5	Red
N721	hybrid 8520	Rijk Zwaan		3	6	4	1	3.21	2	3	3.5	Orange
N722	hybrid 8527	Rijk Zwaan		4	6.5	3.5		2.96	9	3.5	3	Orange
N723	Forage carrot-Jaune Obtuse de Doubs	102-3	0.5	5.5	6	2		2.68	17	3	2.5	Yellow
N724	Yellowstone	Bejo	0.5	1.5	9	3		3.04	4	3	3	Yellow
N725	WAR × JOD	702-5	0.5	5	7	1.5		2.68	18	3.5	3	Yellow
N726	WAR × JOD	102-4	0.5	5.5	6	2		2.68	19	2	3	Yellow
N727	Forage carrot-Jaune Obtuse de Doubs	211-8	0.5	4.5	7	2		2.75	14	3	3	Yellow
N728	Lobbericher	102-5	0.5	4.5	7	2		2.75	15	3	3.5	Yellow
N729	WAR × JOD	211-4	0.5	3.5	5.5	4.5		3.00	7	2	3	Yellow
N730	(2566 × 6253) × Dark Yellow	310-2	5	6	3			1.86	36	3.5	3	Yellow
N731	Crème de Lite	Nunhems	1	5.5	6	1.5		2.57	23	3	2	Cream
N732	Sherbert	Nunhems		3	7	3	1	3.14	3	3	4	Cream
N733	Rainbow F1	Bejo	1	3	7	3		2.86	10	3	3.5	Mix
N734	hybrid 8473	Rijk Zwaan	4.5	3	3.5	3		2.36	27	3	3.5	Orange
N735	No Germ Seed								9999			
N736	White Satin F1	Bejo	1	4	6	2	1	2.86	11	3.5	3.5	White
N737	WWortel × BCVTHT	695-1	2	9	2.5	0.5		2.11	31	3	3	White
N738	WWortel × BCVTHT	696-1	1	4	8	1		2.64	20	2	3	White
N739	BCVTHT × W.Belgian	105-3	1	5	3.5	4.5		2.82	13	3	3.5	White
N740	WWortel × BCVTHT	Seed Movement	1	2	9	2		2.86	12	3	2	White
N741	Tendersnax Novelty	Nunhems	5	4	4	1		2.07	32	3.5	3	Orange
N742	JS 701	Sumika Agrotecl	1.5	7.5	4		1	2.39	25	4	4	Orange
N743	Nun 8915	Nunhems	0.5	5.5	5	3		2.75	16	3	3	Orange
Average Score								2.53				

¹ Mean based on average of 14 judges: 1 = unacceptable, 2 = poor, 3 = fair, 4 = good, 5 = excellent.

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			1	2	3	4	5			H	S	
Entries Listed by Rank												
N705	Dark Purple/ Orange	665-1		3	7	1.5	2.5	3.25	1	2.5	4	Purple
N721	hybrid 8520	Rijk Zwaan		3	6	4	1	3.21	2	3	3.5	Orange
N732	Sherbert	Nunhems		3	7	3	1	3.14	3	3	4	Cream
N724	Yellowstone	Bejo	0.5	1.5	9	3		3.04	4	3	3	Yellow
N701	Purple Rain	Bejo		3.5	7.5	2.5	0.5	3.00	5	2.5	3	Purple
N713	Dark Red Flavor Select	650-1	0.5	3.5	6.5	2.5	1	3.00	6	2	3	Red
N729	WAR × JOD	211-4	0.5	3.5	5.5	4.5		3.00	7	2	3	Yellow
N720	(LWG-S × PI264543 ²) × (PI264543 × 2566)	410-1	1	2	8.5	1.5		2.96	8	1	3.5	Red
N722	hybrid 8527	Rijk Zwaan		4	6.5	3.5		2.96	9	3.5	3	Orange
N733	Rainbow F1	Bejo	1	3	7	3		2.86	10	3	3.5	Mix
N736	White Satin F1	Bejo	1	4	6	2	1	2.86	11	3.5	3.5	White
N740	WWortel × BCVTHT	Seed Movement	1	2	9	2		2.86	12	3	2	White
N739	BCVTHT × W.Belgian	105-3	1	5	3.5	4.5		2.82	13	3	3.5	White
N727	Forage carrot-Jaune Obtuse de Doubs	211-8	0.5	4.5	7	2		2.75	14	3	3	Yellow
N728	Lobbericher	102-5	0.5	4.5	7	2		2.75	15	3	3.5	Yellow
N743	Nun 8915	Nunhems	0.5	5.5	5	3		2.75	16	3	3	Orange
N723	Forage carrot-Jaune Obtuse de Doubs	102-3	0.5	5.5	6	2		2.68	17	3	2.5	Yellow
N725	WAR × JOD	702-5	0.5	5	7	1.5		2.68	18	3.5	3	Yellow
N726	WAR × JOD	102-4	0.5	5.5	6	2		2.68	19	2	3	Yellow
N738	WWortel × BCVTHT	696-1	1	4	8	1		2.64	20	2	3	White
N714	(5280 × 6366) × Red	412-5	2	5	3.5	3.5		2.61	21	3	3	Red
N706	Purple Haze	Bejo	1	8	2	2	1	2.57	22	4	3.5	Purple
N731	Crème de Lite	Nunhems	1	5.5	6	1.5		2.57	23	3	2	Cream
N717	(5280 × 6366) × Red	411-2	3	5	3	3		2.43	24	3.5	3	Red
N742	JS 701	Sumika Agrotecl	1.5	7.5	4		1	2.39	25	4	4	Orange
N719	432906PRC × 319858JP	412-1	2	6	5	1		2.36	26	2.5	3	Red
N734	hybrid 8473	Rijk Zwaan	4.5	3	3.5	3		2.36	27	3	3.5	Orange
N703	7262 × Turkish	218-1		11	2.5	1		2.32	28	3.5	3	Purple
N712	Kintoki	001-3	5	3.5	2.5	3		2.25	29	3	3.5	Red
N715	Red Flavor Select	652-1	2.5	7.5	3	1		2.18	30	4	3	Red
N737	WWortel × BCVTHT	695-1	2	9	2.5	0.5		2.11	31	3	3	White
N741	Tendersnax Novelty	Nunhems	5	4	4	1		2.07	32	3.5	3	Orange
N716	Red	697-1	5	5	3	1		2.00	33	1	3	Red
N707	Dark Purple	657-1	5	6	2	1		1.93	34	2	3.5	Purple
N702	KXPC-402	Integra	5	7	1	1		1.86	35	2	3	Purple
N730	(2566 × 6253) × Dark Yellow	310-2	5	6	3			1.86	36	3.5	3	Yellow
N708	Dark Purple	651-1	7	3	4			1.79	37	3	4	Purple
N709	Dark Purple	699-1	5	7	2			1.79	38	3	3	Purple
N718	[(2566 × 6253) × Red] × PI432903	303-2	9.5	4.5				1.32	39	1	3	Red
N704	No Germ Seed								9999			
N710	No Germ Seed								9999			
N711	No Germ Seed								9999			
N735	No Germ Seed								9999			
Average Score								2.53				

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