

UNIVERSITY OF DELAWARE



**SEEDLESS WATERMELON
VARIETY TRIAL RESULTS
2010**

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Table of Contents

Introduction	1
Materials and Methods	1
Results	2
Acknowledgements	2
Table 1. 2010 Seedless Watermelon Variety Trial: Varieties by Yield in Lbs/A	3
Table 3. 2010 Seedless Watermelon Variety Trial: Varieties by Average Melon Weight	5
Table 4. 2010 Seedless Watermelon Variety Trial: Percent of Total Harvested at Each Harvest	6
Table 5. 2010 Seedless Watermelon Variety Trial: Varieties by Soluble Solid Content	7
Table 6. 2010 Seedless Watermelon Variety Trial: Percent of Melons with Hollow Heart and Size of Hollow Heart	8
APPENDIX A: Photographs of Varieties in the 2010 Seedless Watermelon Variety Trial	9
APPENDIX B: Weather Summary for the 2010 Watermelon Variety Trial May 17th (transplanting) – August 25th (final harvest)	21

2010 University of Delaware Seedless Watermelon Variety Trial

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Introduction

The 2010 Seedless Watermelon Variety Trial included 31 varieties from seven participating companies. The purpose of this trial is to evaluate seedless watermelon varieties for yield, quality and maturity.

Materials and Methods

Location

Field 12 at the University of Delaware Research and Education Center Farm, Georgetown, DE.

Cultural Practices

Field was fertilized according to soil test results. On May 7, 2010, 60 lbs/A of nitrogen (30% UAN) was applied before the beds were shaped and black plastic mulch and trickle irrigation were laid on 7' centers.

There were 31 entries in the trial this year. Plants were seeded in the greenhouse on April 16, 2010 and transplanted to the field on May 17, 2010. Field plots were one row (7 ft) wide and 30 ft. long. Plots were arranged in a randomized complete block design with three replications. In-row spacing was 3' or 10 plants per plot. A total of three plants of the in-row pollinizer variety 'Sidekick' were planted in each plot: between the second and third plants, the fifth and sixth plants, and the eighth and ninth plants. The border rows next to the drive rows, which separated the replications, were planted in the diploid variety 'Stargazer'.

An application of Gramoxone 2 pt/A +Sandeia 0.6 oz/A +Prefar 5 qt/A was made to the row middles on June 1 with a hooded sprayer. Gramoxone 2pt/A +Crop Oil Concentrate 0.16 qt/A was applied with a hooded sprayer on June 18, 2010. Vines were turned before this application as they had just started to run off of the plastic. Select 10 oz/A was applied on July 15, 2010. Applications for disease and insect control were as follows: Bravo at 3 pt/A on 6-12, 6-19, 6-26, 7-10, 7-16, 7-24, 8-1, and 8-13; Previcur Flex at 8.5 oz/A on 7-10; Ranman at 2.75 oz/A on 7-16 and 8-1; Oberon at 8 oz/A on 7-16; and Lamda Star at 4 oz/a on 7-16.

The trial was fertigated with UAN on June 22 (50 lb/mulched A), July 12 (25 lb/mulched A), and July 26 (25 lb/mulched A).

Harvest

Melons were harvested four times: on July 16th, on July 23 & 26th, on August 12th, and on August 25th. The weight of each watermelon harvested was recorded individually. Five melons from each plot were cut and evaluated for presence of hollow heart and soluble solids levels.

Soluble solids were measured using a hand-held refractometer and hollow heart cracks were measured at their widest point with a metric ruler.

Results

Yields of each variety in lbs/A, as well as yield in lbs/A for each of the four harvests, are reported in Table 1. Overall yields of each variety in melons/A, and yield in melons/A for each of the three harvests are reported in Table 2. There were significant differences in yield as measured in lbs/A, however not as measured in melons/A. ‘Crunchy Red’ and ‘SS 7187’ were two of the highest yielding varieties that have also performed well in past year’s trials. Several of the top yielding varieties were new to our trials, ‘SugaRed’, ‘Declaration’, and ‘ACX 6277’. These varieties show potential for high yields in our area. The standard variety, ‘Tri-X 313’, continues to produce good yields in our trials.

Table 3 lists the varieties according to average melon weight and gives the percentage of melons in each of five weight classes: <8 lbs, 8-14 lbs, 14-18 lbs, 18-22 lbs, and > 22 lbs.

Table 4 reports the percent of total harvest for the four harvests and gives a clearer picture of the maturity of each variety. The earliest variety in the trial was ‘Pee Dee Sweet’. The earliest varieties with Crimson Sweet – type rinds were ‘SSX 7609’, ‘Summer King’ and ‘Melody’. The latest varieties were ‘Millionaire’ and ‘Crunchy Red’.

Table 5 lists the varieties according to their soluble solid measurements. Soluble solids averages are based on a 15-melon sample (5 melons per replication). There were significant differences in soluble solids among the varieties. All of the varieties had average soluble solids of over 10%.

Table 7 lists the varieties according to the percent of melons with hollow heart. This table also gives the average width of the hollow heart in centimeters. Hollow heart averages are based on a 15-melon sample (5 melons per replication). Hollow heart incidence was very low in the trial this year and there were no significant differences in either the incidence or size of hollow heart among the varieties.

Photographs of the varieties included in the trial are in Appendix A.

Acknowledgements

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Seedway, LLC, for donation of seed for the border rows.

Table 1. 2010 Seedless Watermelon Variety Trial: Varieties by Yield in Lbs/A

Variety	Yields in Lbs/A*					Seed Source
	Lbs/A	Harvest 1 60 DAT	Harvest 2 67/70 DAT	Harvest 3 87 DAT	Harvest 4 100 DAT	
Crunchy Red	108395 a	0	3655	87287	17453	Harris Moran
SugaRed	100647 ab	0	38168	48013	14466	Siegers
SS 7187	95268 abc	0	40388	47292	7587	Abbott & Cobb
Declaration	89080 abcd	0	30270	51830	6979	Nunhems
ACX 6277	83903 bcde	0	38432	33898	11573	Abbott & Cobb
Tri-X 313	82298 bcdef	3538	34340	33244	11176	check
RWT8228	81806 bcdef	0	45903	29668	6235	Syngenta
HSR 4620	81145 bcdef	6321	35936	33673	5215	Hollar
Fascination	77419 cdefg	6076	45189	23154	2999	Syngenta
SSX 7609	77403 cdefg	11750	28711	27856	9085	Sakata
Sugar Coat	76746 cdefg	4010	42495	23116	7125	Siegers
Sorbet	76541 cdefg	17116	25776	25390	8259	Hollar
SS 7197	74640 cdefgh	2584	35508	26609	9939	Abbott & Cobb
ACR 4106T	73598 cdefgh	0	32832	33128	7638	Abbott & Cobb
Liberty	73163 cdefgh	5451	37226	25598	4888	Nunhems
Red Winner	72381 defgh	0	38486	28315	5580	Siegers
Troubadour	72380 defgh	0	50519	16813	5049	Harris Moran
Millionaire	70451 defgh	0	2190	60027	8233	Harris Moran
ACX 4674T	70327 defgh	0	46026	16921	7380	Abbott & Cobb
Gypsy	69802 defgh	0	53776	8399	7627	Harris Moran
SS 7167	69307 defgh	0	42187	19464	7656	check
HSR 4619	69088 defgh	0	45445	13692	9951	Hollar
Melody	66598 defgh	7128	23218	28276	7976	Syngenta
HSR 4624	64005 efgh	3795	35373	24837	0	Hollar
Summer King	63549 efgh	7222	29069	21437	5821	Syngenta
Pee Dee Sweet	60875 fgh	20034	14018	18844	7979	Siegers
RWT8229	60734 fgh	0	48526	7981	4228	Syngenta
HSR 3770	57861 gh	10991	26303	19123	1443	Hollar
SSX 7436	57520 gh	0	32134	19081	6306	Sakata
8114	56438 gh	2488	32491	14058	7401	Siegers
SWT 7138	51977 h	0	25711	18679	7586	Sakata
LSD _{0.05}	19962					
p-value	0.0012					

Table 2. 2010 Seedless Watermelon Variety Trial: Varieties by Yield in Melons/A

Variety	Yields in Melons/A					Seed Source
	Melons/A	Harvest 1 60 DAT	Harvest 2 67/70 DAT	Harvest 3 87 DAT	Harvest 4 100 DAT	
Sorbet	7122 a	1798	2697	1798	830	Hollar
SugaRed	6016 a	0	2489	2489	1037	Siegers
SS 7187	5808 a	0	2627	2627	553	Abbott & Cobb
Crunchy Red	5808 a	0	208	4563	1037	Harris Moran
RWT8228	5739 a	0	3388	1867	484	Syngenta
Declaration	5670 a	0	2074	3042	553	Nunhems
Troubadour	5601 a	0	3941	1176	484	Harris Moran
SSX 7609	5601 a	899	2351	1659	691	Sakata
HSR 3770	5531 a	1245	2696	1452	139	Hollar
Tri-X 313	5393 a	277	2351	1936	830	check
HSR 4620	5393 a	484	2558	2005	346	Hollar
ACX 4674T	5324 a	0	3526	1245	553	Abbott & Cobb
Fascination	5324 a	484	3250	1452	138	Syngenta
Gypsy	5324 a	0	4148	622	553	Harris Moran
Melody	5186 a	622	1797	2074	692	Syngenta
SS 7197	5117 a	208	2420	1659	830	Abbott & Cobb
Liberty	5047 a	484	2489	1729	346	Nunhems
ACR 4106T	4978 a	0	2489	1798	691	Abbott & Cobb
Pee Dee Sweet	4840 a	1521	1106	1590	622	Siegers
Sugar Coat	4771 a	277	2766	1175	553	Siegers
Summer King	4771 a	622	2212	1452	484	Syngenta
Red Winner	4771 a	0	2835	1590	346	Siegers
ACX 6277	4702 a	0	2351	1729	622	Abbott & Cobb
HSR 4624	4702 a	415	2696	1590	0	Hollar
SWT 7138	4632 a	0	2351	1521	761	Sakata
SS 7167	4563 a	0	2696	1245	623	check
RWT8229	4494 a	0	3526	623	346	Syngenta
HSR 4619	4287 a	0	3042	830	415	Hollar
Millionaire	4149 a	0	138	3388	622	Harris Moran
SSX 7436	4080 a	0	2351	1244	484	Sakata
8114	3872 a	208	2351	761	553	Siegers
LSD _{0.05}	NA					
<i>p</i> -value	0.0609					

Table 3. 2010 Seedless Watermelon Variety Trial: Varieties by Average Melon Weight

Variety	Mean Weight (lbs)	Percent of Melons in Each Size Class				
		< 8.00 lbs	8.00-14.00 lbs	14.01-18.00 lbs	18.01-22.00 lbs	>22.00 lbs
Crunchy Red	18.6	0.0	9.5	39.3	36.9	14.3
ACX 6277	17.9	1.5	22.1	33.8	20.6	22.1
Millionaire	17.0	0.0	18.3	38.3	38.3	5.0
SugaRed	16.8	0.0	26.4	41.4	20.7	11.5
SS 7187	16.4	0.0	27.4	41.7	23.8	7.1
HSR 4619	16.1	0.0	32.3	45.2	14.5	8.1
Sugar Coat	16.1	0.0	36.2	33.3	21.7	8.7
Declaration	15.7	1.2	35.4	47.6	7.3	8.5
Tri-X 313	15.2	0.0	35.9	48.7	12.8	2.6
SS 7167	15.2	0.0	31.8	57.6	7.6	3.0
Red Winner	15.2	0.0	43.5	33.3	17.4	5.8
HSR 4620	15.0	0.0	35.9	50.0	11.5	2.6
ACR 4106T	14.8	2.8	50.0	20.8	23.6	2.8
8114	14.6	0.0	46.4	37.5	14.3	1.8
SS 7197	14.5	0.0	52.7	33.8	12.2	1.4
Fascination	14.5	0.0	50.6	37.7	9.1	2.6
Liberty	14.5	0.0	50.7	35.6	11.0	2.7
RWT8228	14.3	0.0	50.6	39.8	4.8	4.8
SSX 7436	14.1	0.0	50.8	40.7	5.1	3.4
SSX 7609	13.8	2.5	55.6	33.3	4.9	3.7
HSR 4624	13.6	2.9	58.8	29.4	5.9	2.9
RWT8229	13.5	1.5	61.5	33.8	3.1	0.0
Summer King	13.4	1.4	56.5	34.8	5.8	1.4
ACX 4674T	13.3	0.0	70.1	27.3	1.3	1.3
Gypsy	13.1	1.3	68.8	26.0	3.9	0.0
Troubadour	12.9	1.2	65.4	29.6	1.2	2.5
Melody	12.8	2.7	69.3	24.0	4.0	0.0
Pee Dee Sweet	12.6	1.4	70.0	22.9	5.7	0.0
SWT 7138	11.2	1.5	86.6	7.5	4.5	0.0
Sorbet	10.7	17.5	68.9	10.7	2.9	0.0
HSR 3770	10.5	18.8	75.0	2.5	3.8	0.0

Table 4. 2010 Seedless Watermelon Variety Trial: Percent of Total Harvested at Each Harvest

Variety	Percent of Total Harvested at Each Harvest			
	Harvest 1 60 DAT	Harvest 2 67/70 DAT	Harvest 3 87 DAT	Harvest 4 100 DAT
Pee Dee Sweet	33	23	31	13
Sorbet	22	34	33	11
HSR 3770	19	45	33	2
SSX 7609	15	37	36	12
Summer King	11	46	34	9
Melody	11	35	42	12
Fascination	8	58	30	4
HSR 4620	8	44	41	6
Liberty	7	51	35	7
HSR 4624	6	55	39	0
Sugar Coat	5	55	30	9
8114	4	58	25	13
Tri-X 313	4	42	40	14
SS 7197	3	48	36	13
RWT8229	0	80	13	7
Gypsy	0	77	12	11
Troubadour	0	70	23	7
HSR 4619	0	66	20	14
ACX 4674T	0	65	24	10
SS 7167	0	61	28	11
RWT8228	0	56	36	8
SSX 7436	0	56	33	11
Red Winner	0	53	39	8
SWT 7138	0	49	36	15
ACX 6277	0	46	40	14
ACR 4106T	0	45	45	10
SS 7187	0	42	50	8
SugaRed	0	38	48	14
Declaration	0	34	58	8
Millionaire	0	3	81	16
Crunchy Red	0	3	85	12

Table 5. 2010 Seedless Watermelon Variety Trial: Varieties by Soluble Solid Content

Variety	% Soluble Solids
HSR 4620	12.2 a
SugaRed	12.1 ab
SS 7187	12.0 abc
Red Winner	11.9 abcd
HSR 4619	11.8 abcde
ACX 6277	11.8 abcdef
Crunchy Red	11.7 abcdef
RWT8228	11.7 abcdefg
HSR 4624	11.7 abcdefg
RWT8229	11.6 bcdefgh
SS 7167	11.5 cdefgh
Troubadour	11.5 cdefgh
SSX 7436	11.5 cdefgh
Gypsy	11.5 cdefgh
Liberty	11.4 defghi
Declaration	11.4 defghi
Sugar Coat	11.4 defghi
Millionaire	11.3 efghi
ACR 4106T	11.3 efghi
HSR 3770	11.2 fghij
SSX 7609	11.2 fghij
8114	11.2 ghij
Tri-X 313	11.2 ghij
SS 7197	11.2 hij
Summer King	11.1 hij
Sorbet	11.1 hij
Fascination	10.9 ijk
Melody	10.9 ijk
SWT 7138	10.8 jk
ACX 4674T	10.7 jk
Pee Dee Sweet	10.5 k
<i>p</i> -value	<0.0001
LSD _{0.05}	0.5483

Table 6. 2010 Seedless Watermelon Variety Trial: Percent of Melons with Hollow Heart and Size of Hollow Heart

Variety	% Melons with Hollow Heart	Average Size of Hollow Heart (cm)
SSX 7436	26.667 a	0.15333 a
Summer King	20.000 a	0.10667 a
Pee Dee Sweet	20.000 a	0.06667 a
Millionaire	20.000 a	0.20667 a
SSX 7609	20.000 a	0.09333 a
Tri-X 313	13.333 a	0.05333 a
SWT 7138	13.333 a	0.14667 a
SS 7167	6.667 a	0.02667 a
SS 7187	6.667 a	0.10667 a
SS 7197	6.667 a	0.00667 a
ACX 6277	6.667 a	0.02000 a
ACR 4106T	6.667 a	0.02000 a
Liberty	6.667 a	0.03333 a
Declaration	6.667 a	0.03333 a
HSR 4619	6.667 a	0.02000 a
SugaRed	6.667 a	0.18667 a
Gypsy	6.667 a	0.06667 a
Red Winner	6.667 a	0.03333 a
ACX 4674T	0 a	0 a
RWT8228	0 a	0 a
RWT8229	0 a	0 a
Fascination	0 a	0 a
Melody	0 a	0 a
HSR 4624	0 a	0 a
HSR 4620	0 a	0 a
Sorbet	0 a	0 a
HSR 3770	0 a	0 a
Sugar Coat	0 a	0 a
8114	0 a	0 a
Crunchy Red	0 a	0 a
Troubadour	0 a	0 a
<i>p</i> -value	0.1432	0.2720
LSD _{0.05}	NS	NS

APPENDIX A:

Photographs of Varieties in the 2010 Seedless Watermelon Variety Trial

Standard Crimson Sweet-Type Melons*



Crunchy Red

Yield: 108,395 lbs/A (1)
Mean Weight: 18.6 lbs (1)
Soluble Solids: 11.7% (7)

Harris Moran



SugaRed

Yield: 100,647 lbs/A (2)
Mean Weight: 16.8 lbs (4)
Soluble Solids: 12.1% (2)

Siegers






SS 7187

Yield: 95,268 lbs/A (3)
Mean Weight: 16.4 lbs (5)
Soluble Solids: 12.0% (3)

Abbott & Cobb




*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

Standard Crimson Sweet-Type Melons*

	<p>Declaration</p> <p>Yield: 89,080 lbs/A (4) Mean Weight: 15.7 lbs (8) Soluble Solids: 11.4% (15)</p> <p>Nunhems</p>
	<p>ACX 6277</p> <p>Yield: 83,903 lbs/A (5) Mean Weight: 17.9 lbs (2) Soluble Solids: 11.8% (5)</p> <p>Abbott & Cobb</p>
	<p>Tri-X 313</p> <p>Yield: 82,298 lbs/A (6) Mean Weight: 15.2 lbs (9) Soluble Solids: 11.2% (20)</p> <p>Syngenta</p>

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

Standard Crimson Sweet-Type Melons*

	<p>RWT 8228</p> <p>Yield: 81,806 lbs/A (7) Mean Weight: 14.3 lbs (18) Soluble Solids: 11.7% (7)</p> <p>Syngenta</p>
	<p>HSR 4620</p> <p>Yield: 81,145 lbs/A (8) Mean Weight: 15.0 lbs (12) Soluble Solids: 12.2% (1)</p> <p>Hollar Seed Company</p>
	<p>Fascination</p> <p>Yield: 77,419 lbs/A (9) Mean Weight: 14.5 lbs (15) Soluble Solids: 10.9% (27)</p> <p>Syngenta</p>

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

Standard Crimson Sweet-Type Melons*



SSX 7609

Yield: 77,403 lbs/A (10)
Mean Weight: 13.8 lbs (20)
Soluble Solids: 11.2% (20)

Sakata



Sugar Coat

Yield: 76,746 lbs/A (11)
Mean Weight: 16.1 lbs (6)
Soluble Solids: 11.4% (15)

Siegers



SS 7197

Yield: 74,640 lbs/A (13)
Mean Weight: 14.5 lbs (15)
Soluble Solids: 11.2% (20)

Abbott & Cobb

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

Standard Crimson Sweet-Type Melons*



ACR 4106T

Yield: 73,598 lbs/A (14)
Mean Weight: 14.8 lbs (13)
Soluble Solids: 11.3% (18)

Abbott & Cobb



Liberty

Yield: 73,163 lbs/A (15)
Mean Weight: 14.5 lbs (15)
Soluble Solids: 11.4% (15)

Nunhems



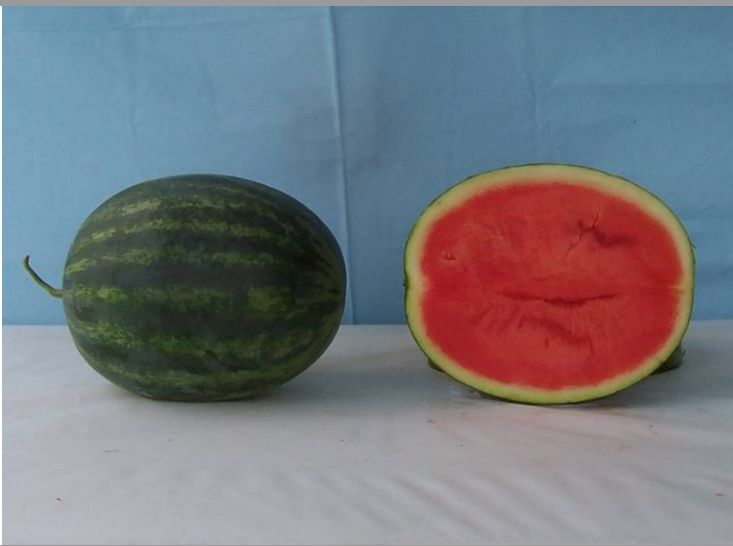
Red Winner

Yield: 72,381 lbs/A (16)
Mean Weight: 15.2 lbs (9)
Soluble Solids: 11.9% (4)

Siegers

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

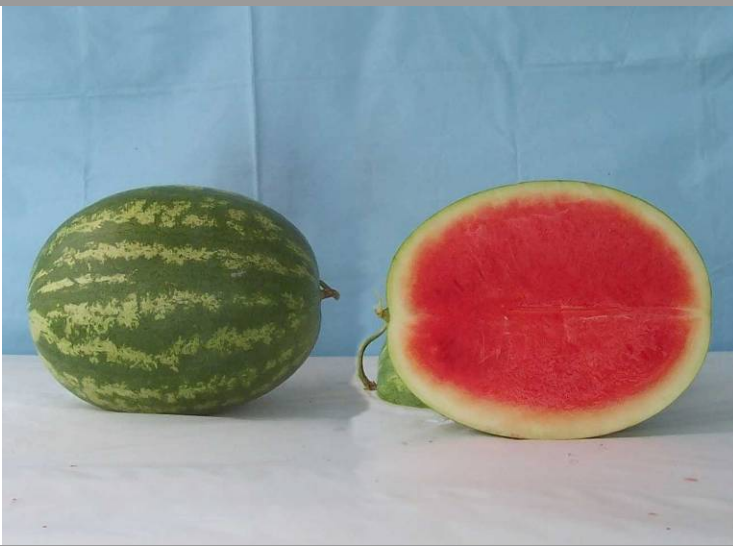
Standard Crimson Sweet-Type Melons*



Troubadour

Yield: 72,380 lbs/A (17)
Mean Weight: 12.9 lbs (26)
Soluble Solids: 11.5% (11)

Harris Moran



Millionaire

Yield: 70,451 lbs/A (18)
Mean Weight: 17.0 lbs (3)
Soluble Solids: 11.3% (18)

Harris Moran



ACX 4674T

Yield: 70,327 lbs/A (19)
Mean Weight: 13.3 lbs (24)
Soluble Solids: 10.7% (30)

Abbott & Cobb

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

Standard Crimson Sweet-Type Melons*



Gypsy

Yield: 69,802 lbs/A (20)
Mean Weight: 13.1 lbs (25)
Soluble Solids: 11.5% (11)

Harris Moran



SS 7167

Yield: 69,307 lbs/A (21)
Mean Weight: 15.2 lbs (9)
Soluble Solids: 11.5% (11)

Abbott & Cobb



Melody

Yield: 66,598 lbs/A (23)
Mean Weight: 12.8 lbs (27)
Soluble Solids: 10.9% (27)

Syngenta

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

Standard Crimson Sweet-Type Melons*



Summer King

Yield: 63,549 lbs/A (25)
Mean Weight: 13.4 lbs (23)
Soluble Solids: 11.1% (25)

Syngenta



RWT 8229

Yield: 60,734 lbs/A (27)
Mean Weight: 13.5 lbs (22)
Soluble Solids: 11.6% (10)

Syngenta



SSX 7436

Yield: 57,520 lbs/A (29)
Mean Weight: 14.1 lbs (19)
Soluble Solids: 11.5% (11)

Sakata

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

Red-Fleshed Melons continued*



8114

Yield: 56,438 lbs/A (30)
Mean Weight: 14.6 lbs (14)
Soluble Solids: 11.2% (20)

Siegers



SWT 7138

Yield: 51,977 lbs/A (31)
Mean Weight: 11.2 lbs (29)
Soluble Solids: 10.8% (29)

Sakata

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

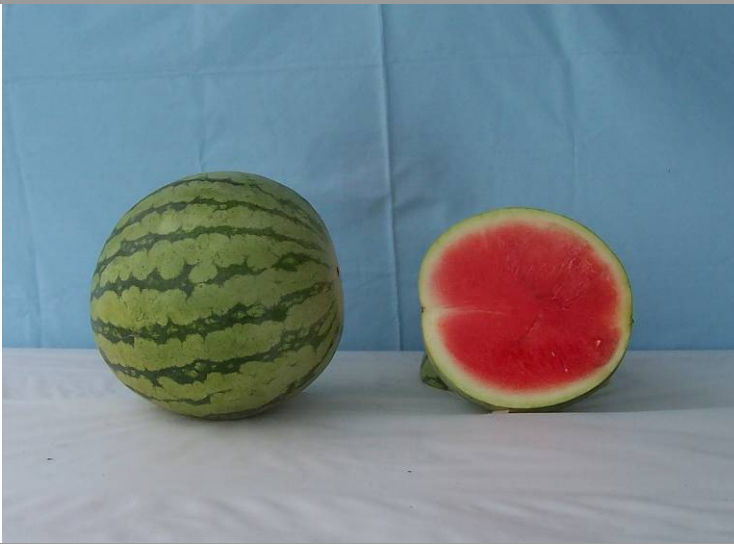
Melons with Unconventional Vines*



Sorbet

Yield: 76,541 lbs/A (12)
Mean Weight: 10.7 lbs (30)
Soluble Solids: 11.1% (25)

Hollar Seed Company



Pee Dee Sweet

Yield: 60,875 lbs/A (26)
Mean Weight: 12.6 lbs (28)
Soluble Solids: 10.5% (31)

Siegers



HSR 3770

Yield: 57,861 lbs/A (28)
Mean Weight: 10.5 lbs (31)
Soluble Solids: 11.2% (20)

Hollar Seed Company

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

Long Melons*



HSR 4619

Yield: 69,088 lbs/A (22)
Mean Weight: 16.1 lbs (6)
Soluble Solids: 11.8% (5)

Hollar Seed Company



HSR 4624

Yield: 64,005 lbs/A (24)
Mean Weight: 13.6 lbs (21)
Soluble Solids: 11.7% (7)

Hollar Seed Company

*Numbers in parenthesis are the rank of the variety for this characteristic out of the 31 varieties.

APPENDIX B:
Weather Summary for the 2010 Watermelon Variety Trial
May 17th (transplanting) – August 25th (final harvest)

**Appendix B: Weather Summary for the 2010 Watermelon Variety Trial
May 17th (transplanting) – August 25th (final harvest)**

DAT	Date	Max Temp °F	Min Temp °F	Rainfall (in.)
0	17-May	63.7	49.5	0.03
1	18-May	58.3	51.2	1.12
2	19-May	65.9	51.7	0
3	20-May	77.6	51.1	0
4	21-May	86.2	54.2	0
5	22-May	76.4	58.5	0
6	23-May	72.9	60.6	0
7	24-May	70.6	60	0
8	25-May	75.6	58.9	0
9	26-May	87.4	54.1	0
10	27-May	80.9	59.2	0
11	28-May	74.3	58.9	0
12	29-May	82.1	59.5	0
13	30-May	87.3	66.3	0
14	31-May	91.3	63.2	0
15	1-Jun	85.5	69.8	0
16	2-Jun	89.3	68.2	0
17	3-Jun	88.4	69.3	0
18	4-Jun	89.8	68.1	0
19	5-Jun	90.5	75.3	0
20	6-Jun	90.3	67	0
21	7-Jun	76.1	58.9	0
22	8-Jun	76.5	55.7	0
23	9-Jun	72.3	57.3	0
24	10-Jun	87.2	68.8	0
25	11-Jun	80.3	60.2	0
26	12-Jun	86.6	61.9	0
27	13-Jun	92.4	73.8	0
28	14-Jun	87.3	68	0
29	15-Jun	78.6	67.7	0
30	16-Jun	83.3	66.7	0
31	17-Jun	85.5	66.5	0
32	18-Jun	82.9	57.9	0
33	19-Jun	88.1	61.2	0
34	20-Jun	93.7	72	0
35	21-Jun	90.5	66.6	0
36	22-Jun	92.8	66.3	0
37	23-Jun	91.9	68.5	0
38	24-Jun	94.7	74.1	0
39	25-Jun	87.3	71	0
40	26-Jun	89.1	67.4	0
41	27-Jun	94.3	73	0
42	28-Jun	94.9	76.8	0.23
43	29-Jun	88.6	76.3	0.05
44	30-Jun	79.7	58.9	0
45	1-Jul	77.4	57.3	0
46	2-Jul	78.8	53.7	0
47	3-Jul	85.1	55.4	0
48	4-Jul	90.7	63	0

DAT	Date	Max Temp (°F)	Min Temp (°F)	Rainfall (in.)
49	5-Jul	96	68	0
50	6-Jul	100	68.9	0
51	7-Jul	95.5	72.8	0
52	8-Jul	84.3	73.4	0
53	9-Jul	87.4	71.8	0.02
54	10-Jul	76.9	70.3	1.15
55	11-Jul	86.9	68.5	0.01
56	12-Jul	88.1	67.5	0
57	13-Jul	86.8	73.5	0.31
58	14-Jul	81.3	72.5	0.03
59	15-Jul	88.1	71.3	0
60	16-Jul	93.4	73.2	0
61	17-Jul	91.1	75.1	0
62	18-Jul	92.3	72.8	0
63	19-Jul	88.6	74.9	0
64	20-Jul	92.2	73.4	0
65	21-Jul	90.7	73.6	0
66	22-Jul	91.2	72.1	0
67	23-Jul	94.8	72.1	0
68	24-Jul	97.9	79.7	0
69	25-Jul	97.9	72.2	0.09
70	26-Jul	84.7	66.9	0
71	27-Jul	88.3	61.5	0
72	28-Jul	89.8	72.9	0
73	29-Jul	90.8	74.4	0.78
74	30-Jul	81.9	65.1	0
75	31-Jul	85.7	60.4	0
76	1-Aug	80.9	66.3	0.08
77	2-Aug	81.8	68.5	0
78	3-Aug	87.5	65.3	0
79	4-Aug	88.8	73.8	0
80	5-Aug	94.4	73.8	0.36
81	6-Aug	88.5	69.2	0
82	7-Aug	87.2	64	0
83	8-Aug	89.2	65.6	0
84	9-Aug	92.2	71.1	0.01
85	10-Aug	96.1	73.1	0
86	11-Aug	93.7	74.4	0
87	12-Aug	85	73.1	0.54
88	13-Aug	79.8	70.1	0
89	14-Aug	80.4	62.9	0
90	15-Aug	81.4	67	0
91	16-Aug	90.7	73	0
92	17-Aug	83.2	75.5	0
93	18-Aug	76.6	68.3	0.69
94	19-Aug	86.1	69.7	0
95	20-Aug	89.9	68.4	0
96	21-Aug	88.7	65.1	0
97	22-Aug	85.5	72.5	0.34
98	23-Aug	82.3	67.8	0
99	24-Aug	71.2	65.2	0.01
100	25-Aug	76.6	62.8	0