# UNIVERSITY OF DELAWARE



# SEEDLESS WATERMELON VARIETY TRIAL RESULTS 2014

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# **Table of Contents**

Introduction	1
Materials and Methods	1
Results	2
Acknowledgements	3
Table 1. 2014 Seedless Watermelon Variety Trial: Total Yield, Marketable I and	
Marketable II Yields in Pounds/Acre and Melons/Acre	4
Table 2. 2014 Seedless Watermelon Variety Trial: Varieties by Marketable I Yield in L	bs/A
	5
Table 3. 2014 Seedless Watermelon Variety Trial: Varieties by Marketable I Yield in	
Melons/A	6
Table 4. 2014 Seedless Watermelon Variety Trial: Percent of Total Harvested at Each	
Harvest by Weight	7
Table 5. 2014 Seedless Watermelon Variety Trial: Varieties by Average Melon Weight	8
Table 6. 2014 Seedless Watermelon Variety Trial: Varieties by Soluble Solid Content	9
Table 7. 2014 Seedless Watermelon Variety Trial: Percent of Sampled Melons with Ho	llow
Heart	10
APPENDIX A: Photographs of Varieties in the 2014 Seedless Watermelon Variety Trial	11
APPENDIX B: Weather Summary for the 2014 Watermelon Variety Trial May 20th	
(transplanting) – August 20 <sup>th</sup> (final harvest)	21

#### 2014 University of Delaware Seedless Watermelon Variety Trial

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#### Introduction

The 2014 Seedless Watermelon Variety Trial included 25 varieties from ten participating companies. The purpose of this trial is to evaluate seedless watermelon varieties for yield, quality and maturity.

#### **Materials and Methods**

#### Location

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

#### **Cultural Practices**

Field was fertilized and limed according to soil test results (1 ton/A calcitic lime + 200 lbs/A 0-0-60). Prefar (bensulide) at 6 qt/A + 50 lbs/A of nitrogen (30% UAN) was applied after the beds had been shaped and before black plastic mulch and trickle irrigation were laid on 7' centers.

There were 25 entries in the trial this year. Plants were seeded in the greenhouse on April 15, 2014 and transplanted to the field on May 20 and 21, 2014. 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 3ft or 10 plants per plot. Two plants of the in-row pollenizer variety 'Accomplice' and two plants of the in-row pollinizer 'Sp-6' were planted in each plot in the following arrangement: s A s s s 6 s s s A s s s 6. "A" designates Accomplice, "6" designates Sp-6 and "s" designates the seedless plants. The border rows next to the drive rows, which separated the replications, were planted in the triploid variety 'SS 9651', with the Accomplice and Sp-6 as the pollenizers, in the same arrangement as the experimental plots. 'SS 9651' has a solid medium green rind and was easily distinguishable from the trial entries. A the request of the entering seed company, the variety 'Secretariat' was planted with 4 plants per plot of the in-row pollinizer 'ACE' instead of Accomplice and Sp-6.

An application of Gramoxone 2 qt/A +Sandea (halosulfuron) 0.75 oz/A + Sinbar (terbacil) 4 oz/A + Dual 1 pt/A + 1% Crop Oil was made to the row middles on May 30 with a hooded sprayer. Vines were turned before this application as they had just started to run off of the plastic.

Plots were fertigated with 60 lbs/A of N on June 18 (32% UAN) and again on July 10 (30% UAN)

Applications for disease and insect control were as follows:

- 5-27: Assail 5 oz/A
- 6-2: Chlorothalonil 3 pt/A
- 6-13: Chlorothalonil 3 pt/A, Inspire Super 16 oz/A, Warrior II 2 oz/A
- 6-20: Chlorothalonil 3 pt/A
- 6-27: Chlorothalonil 3 pt/A, Tebuconazole 8 oz/A, Quadris 16 oz/A, Warrior II 2 oz/A
- 6-27: Select 8 oz/A for grass
- 7-4: Chlorothalonil 3 pt/A, Bifenthrin 6.4 oz/A, Oberon 8 oz/A, Pristine 18 oz/A
- 7-11: Chlorothalonil 3 pt/A, Inspire super 16 oz/A
- 7-18: Mancozeb 3 lb/A, Pristine 18 oz/A, Phostrol 4 pt/A, Bifenthrin 6.4 oz/A
- 7-25: Chlorothalonil 3 pt/A, Quadris 16 oz/A
- 8-2: Chlorothalonil 3 pt/A, Tebuconazole 8 oz/A
- 8-8: Chlorothalonil 3 pt/A, Inspire super 16 oz/A, Ranman 2.75 oz/A
- 8-15: Chlorothalonil 3 pt/A, Pristine 18 oz/A, Bifenthrin 6.4 oz/A
- 8-22: Chlorothalonil 3 pt/A, Ranman 2.75 oz/A

#### Harvest

Fruit were harvested two times: on August 6 & 7 and on August 19 & 20. The weight of each watermelon harvested was recorded individually. Five marketable watermelons 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 rated as absent (0), present but fruit is marketable (1) or present rendering fruit unmarketable (3).

#### **Results**

Total yield, marketable yield excluding misshapen culls and fruit less than 9 lbs (Marketable Yield I) and marketable yield excluding misshapen culls, fruit less than 9 lbs and fruit over 24 lbs (Marketable Yield II) are reported in Table 1 in both pounds per acre and fruit per acre for each variety. The highest yielding varieties in the trial in terms of Marketable Yield I in lbs/A were Wolverine, Exclamation, Nun01009, Captivation, Crunchy Red, Premont, ORS 12166, Sweet Polly, Fascination and SV 0258 WA.

Total Marketable Yield I of each variety, as well as Marketable Yield I in for each of harvests, are reported in Table 2 in lbs/A and in Table 3 in fruit/A. Table 4 reports the percent of total harvest for each harvest. This year, the first harvest was much later than typical for this trial (78 DAT versus the usual ~60 DAT) and the yield at first harvest was higher than usual. The first harvest was probably delayed because of cool weather in the early part of the season and stress from heavy disease pressure this year. We harvested a second time, two weeks after the first harvest. Typically we harvest this trial at least three times, but this year there was a lot of disease pressure, especially from *Phytophthora* fruit rot in the field and we chose to stop data collection after two harvests.

Table 5 lists the varieties according to average fruit weight and gives the percentage of fruit in each of four weight classes: 60 count (9.0-13.5 lbs), 45 count (13.6-17.5 lbs), 36 count (17.6-21.4 lbs) and 30 count (>21.5 lbs). Fascination, Exclamation, Premont, Maxima, Tri-X 313, ZG0409, Wolverine and SV 0258WA produced the largest fruit. Troubadour produced the highest percentage of melons in the 60 count category. Wolverine produced the highest

percentage of melons in the 45 count category. Fascination produced the highest percentage of melons in the 36 count category. Premont produced the highest percentage of melons in the 30 count category.

Table 6 lists the varieties according to their soluble solid measurements. Soluble solids averages are based on a 15-fruit sample (5 fruit 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 fruit with hollow heart. Hollow heart averages are based on a 15-fruit sample (5 fruit per replication). There was some hollow heart observed in the trial this year. The varieties that were most affected were Sweet Gem, Sweet Polly, SWT 7829, SV 0258 WA, Fascination and Premont. No hollow heart was observed in Troubadour, HMX 1915, Crunchy Red, Captivation and Exclamation.

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

#### Acknowledgements

The authors gratefully acknowledge:

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Brian Hearn and the REC Farm Crew for assistance with field operations and irrigation.

Nunhems for donation of seed for the border rows, and Harris Moran and Syngenta for donation of pollenizer seed.

Table 1. 2014 Seedless Watermelon Variety Trial: Total Yield, Marketable I and Marketable II Yields in Pounds/Acre and Fruit/Acre

Variety	Company	Total Count (fruit/A)	Total Weight	Marketable I Count (Fruit/A)	Marketable I Weight (lbs/A)	Marketable II Count (fruit/A)	Marketable II Weight (lbs/A)	Marketable I Mean Fruit Weight
Wolverine	Highmark Seed Company	5739 a	81882 a	5670 a	81391 a	5670 a	81391 a	14.37
Exclamation	Syngenta	5047 a	73336 a	4840 abcd	71756 ab	4771 abcde	69747 ab	14.81
Nun01009	Nunhems	5462 a	71391 a	5255 ab	69768 abc	5255 ab	69768 ab	13.25
Captivation	Syngenta	5255 a	69130 a	5116 abc	68273 abc	5116 abc	68273 abc	13.34
Crunchy Red	check	4909 a	66570 a	4771 abcde	65454 abcde	4771 abcde	65454 abcd	13.76
Premont	Clifton Seed Co.	4633 a	66687 a	4425 abcdef	64980 abcdef	4425 abcdef	64980 abcde	14.69
ORS 12166	Origene Seeds	5047 a	67370 a	4702 abcde	64598 abcdef	4633 abcde	62886 abcdef	13.74
Sweet Polly	Siegers	5116 a	66749 a	4840 abcd	64387 abcdef	4840 abcd	64387 abcde	13.31
Fascination	Syngenta	4494 a	65740 a	4218 abcdef	63617 abcdefg	4218 abcdef	63617 abcdef	15.10
SV 0258 WA	Monsanto-Seminis	4909 a	66817 a	4494 abcde	63400 abcdefg	4494 abcde	63400 abcdef	14.10
SS 7187	check	4494 a	58717 a	4148 abcdef	56086 bcdefgh	4148 abcdef	56086 bcdefg	13.49
Secretariat	Sakata	4909 a	58754 a	4218 abcdef	53371 bcdefgh	4218 abcdef	53371 bcdefg	12.66
Sweet Gem	Syngenta	4564 a	56798 a	4010 bcdefg	52800 bcdefgh	4010 bcdefg	52800 bcdefg	13.16
ZG0409	Siegers/Zeraim Gedera	3734 a	52654 a	3595 cdefg	51846 bcdefghi	3595 cdefg	51846 bcdefgh	14.42
SS 7197	Nunhems	4218 a	55412 a	3734 bcdefg	51437 bcdefghi	3664 bcdefg	49736 bcdefgh	13.78
Unbridled	Sakata	5117 a	57882 a	3941 bcdefg	49556 bcdefghi	3941 bcdefg	49556 bcdefgh	12.56
SV0241 WA	Monsanto-Seminis	4840 a	54765 a	3734 bcdefg	45772 cdefghi	3734 bcdefg	45772 cdefgh	12.25
Harvest Moon	Seeds By Design	4218 a	49576 a	3319 defg	42855 defghi	3319 defg	42855 defgh	12.93
Cut Above	Clifton Seed Co.	4633 a	51869 a	3388 defg	41951 defghi	3388 defg	41951 defgh	12.39
SWT 7829	Clifton Seed Co.	3872 a	47473 a	3181 efg	41836 defghi	3181 efg	41836 defgh	13.14
Maxima	Origene Seeds	3042 a	42928 a	2835 fg	41479 efghi	2835 fg	41479 efgh	14.61
Tri-X 313	Syngenta	3042 a	43037 a	2835 fg	41277 fghi	2835 fg	41277 efgh	14.54
HMX 1915	Harris Moran	4287 a	47402 a	3250 defg	39934 ghi	3250 defg	39934 fgh	12.30
SS 7387	Nunhems	3181 a	40923 a	2835 fg	38262 hi	2835 fg	38262 gh	13.52
Troubadour	Harris Moran	5255 a	49927 a	2420 g	28380 i	2420 g	28380 h	11.74
	p-value	0.0847	0.0753	0.0126	0.0074	0.0122	0.0070	
	LSD	NA	NA	1632.3	24121	1619.5	23737	

Total Yield includes misshapen culls, under and oversize fruit. Marketable Yield I excludes misshapen culls and fruit less than 9 lbs. Marketable Yield II excludes misshapen culls, fruit less than 9 lbs, and fruit over 24 lbs.

Table 2. 2014 Seedless Watermelon Variety Trial: Varieties by Marketable I Yield in Lbs/A

		ds in Lbs/A	, terreties k	by Marketable 1 Yield in Lbs/A
Variety	Marketable I Yield Lbs/A	Harvest 1 78 & 79 DAT	Harvest 2 91 & 92 DAT	Seed Source
Wolverine	81391 a	53087	28304	Highmark Seed Company
Exclamation	71756 ab	36312	35444	Syngenta
Nun01009	69768 abc	42456	27311	Nunhems
Captivation	68273 abc	46960	21313	Syngenta
Crunchy Red	65454 abcde	35427	30027	check
Premont	64980 abcdef	35914	29066	Clifton Seed Co.
ORS 12166	64598 abcdef	27252	37346	Origene Seeds
Sweet Polly	64387 abcdef	43342	21046	Siegers
Fascination	63617 abcdefg	41628	21990	Syngenta
SV 0258 WA	63400 abcdefg	25577	37823	Monsanto-Seminis Vegetable Seeds
SS 7187	56086 bcdefgh	34286	21801	check
Secretariat	53371 bcdefgh	29496	23875	Sakata
Sweet Gem	52800 bcdefgh	26223	26577	Syngenta
ZG0409	51846 bcdefghi	26612	25234	Siegers/Zeraim Gedera
SS 7197	51437 bcdefghi	25263	26173	Nunhems
Unbridled	49556 bcdefghi	28028	21528	Sakata
SV0241 WA	45772 cdefghi	24575	21198	Monsanto-Seminis Vegetable Seeds
Harvest Moon	42855 defghi	25951	16904	Seeds By Design
Cut Above	41951 defghi	23206	18745	Clifton Seed Co.
SWT 7829	41836 defghi	25999	15836	Clifton Seed Co.
Maxima	41479 efghi	11810	29669	Origene Seeds
Tri-X 313	41277 fghi	29395	11882	Syngenta
HMX 1915	39934 ghi	23816	16119	Harris Moran
SS 7387	38262 hi	24449	13813	Nunhems
Troubadour	28380 i	16771	11609	Harris Moran
<i>p</i> -value	0.0074			-
LSD <sub>0.05</sub>	24121			

Table 3. 2014 Seedless Watermelon Variety Trial: Varieties by Marketable I Yield in Fruit/A

	Yields in Lbs/A				y Marketable I Yield in Fruit/A
Variety	Marketable I Yield Fruit/A		Harvest 1 78 & 79 DAT	Harvest 2 91 & 92 DAT	Seed Source
Wolverine	5670	a	3734	1936	Highmark Seed Company
Nun01009	5255	ab	3388	1867	Nunhems
Captivation	5116	abc	3595	1521	Syngenta
Sweet Polly	4840	abcd	3388	1452	Siegers
Exclamation	4840	abcd	2627	2213	Syngenta
Crunchy Red	4771	abcde	2766	2005	check
ORS 12166	4702	abcde	2143	2558	Origene Seeds
SV 0258 WA	4494	abcde	1936	2558	Monsanto-Seminis Vegetable Seeds
Premont	4425	abcdef	2627	1798	Clifton Seed Co.
Fascination	4218	abcdef	2697	1521	Syngenta
Secretariat	4218	abcdef	2420	1798	Sakata
SS 7187	4148	abcdef	2558	1590	check
Sweet Gem	4010	bcdefg	2074	1936	Syngenta
Unbridled	3941	bcdefg	2351	1590	Sakata
SV0241 WA	3734	bcdefg	2143	1590	Monsanto-Seminis Vegetable Seeds
SS 7197	3734	bcdefg	2005	1729	Nunhems
ZG0409	3595	cdefg	2005	1590	Siegers/Zeraim Gedera
Cut Above	3388	defg	1936	1452	Clifton Seed Co.
Harvest Moon	3319	defg	2074	1245	Seeds By Design
HMX 1915	3250	defg	2005	1245	Harris Moran
SWT 7829	3181	efg	2005	1175	Clifton Seed Co.
Tri-X 313	2835	fg	2005	830	Syngenta
SS 7387	2835	fg	1936	899	Nunhems
Maxima	2835	fg	830	2005	Origene Seeds
Troubadour	2420	g	1521	899	Harris Moran
<i>p</i> -value	0.0126				
LSD <sub>0.05</sub>	1632.3				

Table 4. 2014 Seedless Watermelon Variety Trial: Percent of Total Harvested at Each Harvest by Weight

Variaty	Percent of Total Harvested at Each Harvest by Weight			
Variety	Harvest 1	Harvest 2		
	78 & 79 DAT	91 & 92 DAT		
Tri-X 313	71.2	28.8		
Captivation	68.8	31.2		
Sweet Polly	67.3	32.7		
Fascination	65.4	34.6		
Wolverine	65.2	34.8		
SS 7387	63.9	36.1		
SWT 7829	62.1	37.9		
SS 7187	61.1	38.9		
Nun01009	60.9	39.1		
Harvest Moon	60.6	39.4		
HMX 1915	59.6	40.4		
Troubadour	59.1	40.9		
Unbridled	56.6	43.4		
Cut Above	55.3	44.7		
Premont	55.3	44.7		
Secretariat	55.3	44.7		
Crunchy Red	54.1	45.9		
SV0241 WA	53.7	46.3		
ZG0409	51.3	48.7		
Exclamation	50.6	49.4		
Sweet Gem	49.7	50.3		
SS 7197	49.1	50.9		
ORS 12166	42.2	57.8		
SV 0258 WA	40.3	59.7		
Maxima	28.5	71.5		

**Table 5. 2014 Seedless Watermelon Variety Trial: Varieties by Average Fruit Weight** 

		Percent of Fruit in Each Size Class				
Variety	Mean Marketable I Weight (lbs)	60 Count 9.0-13.5 lbs	45 Count 13.6-17.5 lbs	36 Count 17.6-21.4 lbs	30 Count 21.5 lbs plus	
Fascination	15.10 a	34.4	42.6	19.7	3.3	
Exclamation	14.81 ab	37.1	44.3	17.1	1.4	
Premont	14.69 abc	40.6	39.1	14.1	6.3	
Maxima	14.61 abcd	46.3	34.1	17.1	2.4	
Tri-X 313	14.54 abcd	31.7	48.8	19.5	0.0	
ZG0409	14.42 abcd	40.4	44.2	13.5	1.9	
Wolverine	14.37 abcd	37.8	53.7	7.3	1.2	
SV 0258 WA	14.10 abcde	49.2	33.8	15.4	1.5	
SS 7197	13.78 bcdefg	63.0	16.7	18.5	1.9	
Crunchy Red	13.76 cdefg	52.2	39.1	8.7	0.0	
ORS 12166	13.74 cdefg	57.4	29.4	11.8	1.5	
SS 7387	13.52 defgh	61.0	24.4	12.2	2.4	
SS 7187	13.49 defgh	56.7	30.0	10.0	3.3	
Captivation	13.34 efghi	56.8	33.8	8.1	1.4	
Sweet Polly	13.31 efghi	61.4	30.0	7.1	1.4	
Nun01009	13.25 efghij	60.5	30.3	7.9	1.3	
Sweet Gem	13.16 fghijk	56.9	39.7	3.4	0.0	
SWT 7829	13.14 fghijk	58.7	37.0	2.2	2.2	
Harvest Moon	12.93 ghijk	70.8	25.0	2.1	2.1	
Secretariat	12.66 hijk	67.2	29.5	3.3	0.0	
Unbridled	12.56 hijk	70.2	24.6	5.3	0.0	
Cut Above	12.39 hijk	75.5	20.4	4.1	0.0	
HMX 1915	12.30 ijk	74.5	25.5	0.0	0.0	
SV0241 WA	12.25 jk	64.8	33.3	1.9	0.0	
Troubadour	11.74 k	80.0	17.1	2.9	0.0	
<i>p</i> -value	< 0.0001			_		

**Table 6. 2014 Seedless Watermelon Variety Trial: Varieties by Soluble Solid Content** 

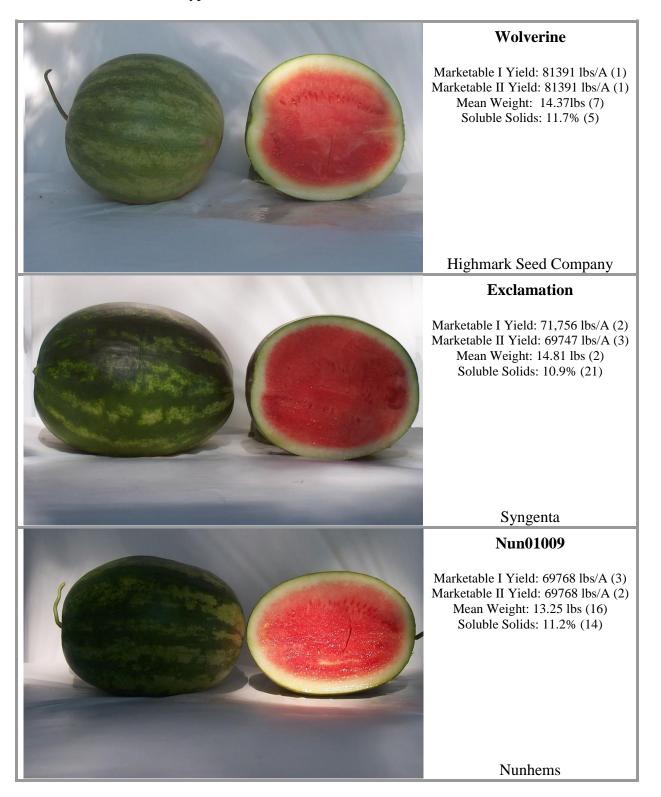
Variety	% Solu	ble Solids
Sweet Gem	12.3	a
Tri-X 313	12.0	ab
SWT 7829	11.9	abcd
Unbridled	11.8	bcdef
Harvest Moon	11.7	bcdef
Wolverine	11.7	bcdef
SV 0258 WA	11.5	bcdefgh
SS 7197	11.5	bcdefghi
Maxima	11.5	bcdefghi
Cut Above	11.5	cdefghij
Sweet Polly	11.4	defghijk
SV0241 WA	11.4	efghijkl
SS 7387	11.3	fghijklm
Nun01009	11.2	ghijklm
Crunchy Red	11.1	hijklm
SS 7187	11.1	hijklm
ZG0409	11.0	ijklm
ORS 12166	11.0	ijklm
Troubadour	11.0	jklm
HMX 1915	11.0	klm
Fascination	10.9	lmn
Exclamation	10.9	lmn
Captivation	10.8	mn
Secretariat	10.8	mn
Premont	10.5	n
<i>p</i> -value	< 0.0001	
LSD <sub>0.05</sub>	0.4844	

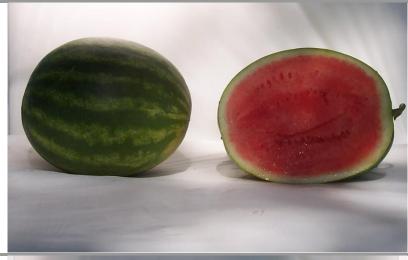
Table 7. 2014 Seedless Watermelon Variety Trial: Percent of Sampled Fruit with Hollow Heart

Variety	% Fruit with Hollow Heart	% Fruit with Unmarketable Hollow Heart
Sweet Gem	40.0 a	20.0 a
Sweet Polly	33.3 a	13.3 ab
SWT 7829	26.7 a	6.7 bc
SV 0258 WA	13.3 a	6.7 bc
Fascination	13.3 a	6.7 bc
Premont	6.7 a	6.7 bc
SS 7197	33.3 a	0.0 c
Nun01009	33.3 a	0.0 c
Cut Above	20.0 a	0.0 c
Secretariat	20.0 a	0.0 c
ZG0409	13.3 a	0.0 c
SS 7387	13.3 a	0.0 c
Harvest Moon	13.3 a	0.0 c
Unbridled	13.3 a	0.0 c
SV0241 WA	6.7 a	0.0 c
SS 7187	6.7 a	0.0 c
Tri-X 313	6.7 a	0.0 c
Maxima	6.7 a	0.0 c
ORS 12166	6.7 a	0.0 c
Wolverine	6.7 a	0.0 c
Troubadour	0.0 a	0.0 c
HMX 1915	0.0 a	0.0 c
Crunchy Red	0.0 a	0.0 c
Captivation	0.0 a	0.0 c
Exclamation	0.0 a	0.0 c
p-value	0.1754	0.0327
LSD <sub>0.05</sub>	NA	10.29

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Photographs of Varieties in the 2014 Seedless Watermelon Variety Trial





#### Captivation

Marketable I Yield: 68273 lbs/A
(4)
Marketable II Yield: 68273 lbs/A
(4)
Mean Weight: 13 34 lbs (14)

Mean Weight: 13.34 lbs (14) Soluble Solids: 10.8% (23)

# Syngenta



#### **Crunchy Red**

Marketable I Yield: 65454 lbs/A (5)

Marketable II Yield: 65454 lbs/A (5)

Mean Weight: 13.76 lbs (10) Soluble Solids: 11.1% (15)

#### Harris Moran (check)



#### **Premont**

Marketable I Yield: 64980 lbs/A (6)
Marketable II Yield: 64980 lbs/A

(6)

Mean Weight: 14.96 lbs (3) Soluble Solids: 10.5% (25)

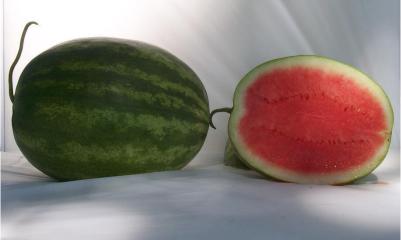
Clifton Seed Company



#### **ORS 12166**

Marketable I Yield: 64598 lbs/A
(7)
Marketable II Yield: 62886 lbs/A
(10)
Mean Weight: 13.74 lbs (11)
Soluble Solids: 11.0% (17)

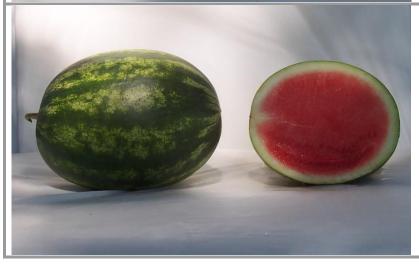
# Origene Seeds



#### **Sweet Polly**

Marketable I Yield: 64387 lbs/A
(8)
Marketable II Yield: 64387 lbs/A
(7)
Mean Weight: 13.31 lbs (15)
Soluble Solids: 11.4% (11)

# Siegers



#### **Fascination**

Marketable I Yield: 63617 lbs/A
(9)
Marketable II Yield: 63617 lbs/A
(8)
Mean Weight: 15.10 lbs (1)
Soluble Solids: 10.9% (21)

Syngenta



#### SV 0258 WA

Marketable I Yield: 63400 bs/A
(10)
Marketable II Yield: 63400 lbs/A
(9)
Mean Weight: 14 10 lbs (8)

Mean Weight: 14.10 lbs (8) Soluble Solids: 11.5% (7)

Monsanto/ Seminis Vegetable Seeds



Marketable I Yield: 56086 lbs/A (11)

Marketable II Yield: 56086 lbs/A (11)

Mean Weight: 13.49 lbs (13) Soluble Solids: 11.1% ()



#### Nunhems (check)

#### Secretariat

Marketable I Yield: 53371 lbs/A (12)

Marketable II Yield: 53371 lbs/A (12)

Mean Weight: 12.66 lbs (20) Soluble Solids: 10.8% (23)



Sakata



#### **ZG** 0409

Marketable I Yield: 51846 lbs/A
(14)
Marketable II Yield: 51846 lbs/A
(14)
Mean Weight: 14.42 lbs (6)

Soluble Solids: 11.0% (17)

Siegers/Zeraim Gedera



#### SS 7197

Marketable I Yield: 51437 lbs/A (15) Marketable II Yield: 49736 lbs/A

(15)
Mean Weight: 13.78 lbs (9)

Soluble Solids: 11.5% (7)

#### Nunhems



#### Unbridled

Marketable I Yield: 49556 lbs/A (16) Marketable II Yield: 49556 lbs/A (16)

Mean Weight: 12.56 lbs (21) Soluble Solids: 11.8% (4)

Sakata



#### **SV0241 WA**

Marketable I Yield: 45772 lbs/A
(17)
Marketable II Yield: 45772 lbs/A
(17)
Macan Weight: 12 25 lbs (24)

Mean Weight: 12.25 lbs (24) Soluble Solids: 11.4% (11)

Monsanto/ Seminis Vegetable Seeds



#### **Cut Above**

Marketable I Yield: 41951 lbs/A (19) Marketable II Yield: 41951 lbs/A (19) Mean Weight: 13.39 lbs (22)

Soluble Solids: 11.5% (7)



#### Clifton Seed Company

#### SWT 7829

Marketable I Yield: 41836 lbs/A (20) Marketable II Yield: 41836 lbs/A (20) Mean Weight: 13.14 lbs (18)

Soluble Solids: 11.9% (9)

Clifton Seed Company



#### Maxima

Marketable I Yield: 41479 lbs/A
(21)
Marketable II Yield: 41479 lbs/A
(21)
Mean Weight: 14.61 lbs (4)
Soluble Solids: 11.5% (7)

#### Origene Seeds



#### **Tri-X 313**

Marketable I Yield: 41277 lbs/A (22) Marketable II Yield: 41277 lbs/A (22)

Mean Weight: 14.54 lbs (5) Soluble Solids: 12.0% (2)

#### Syngenta



#### **HMX 1615**

Marketable I Yield: 39934 lbs/A (23)

Marketable II Yield: 39934 lbs/A (23)

Mean Weight: 12.3 lbs (23) Soluble Solids: 11.0% (17)

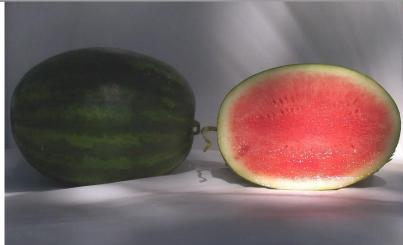
Harris Moran



#### SS 7387

Marketable I Yield: 38262 lbs/A (24) Marketable II Yield: 38262 lbs/A (24) Mean Weight: 13.52 lbs (12) Soluble Solids: 11.3% (13)

#### Company

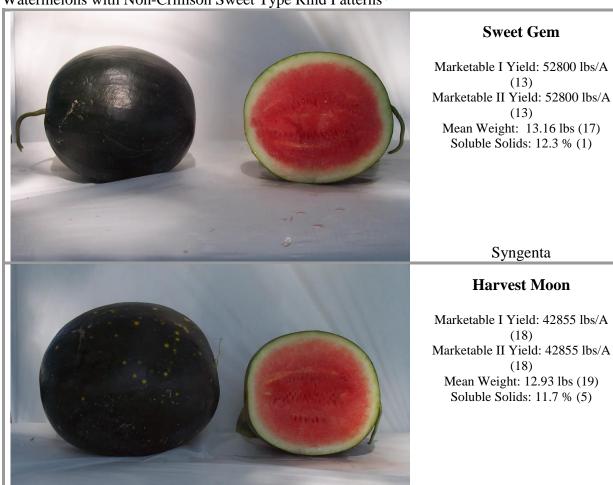


#### **Troubadour**

Marketable I Yield: 28380 lbs/A (25)
Marketable II Yield: 28380 lbs/A (25)
Mean Weight: 11.74 lbs (25)
Soluble Solids: 11.0% (17)

Harris Moran

# Watermelons with Non-Crimson Sweet Type Rind Patterns\*



Seeds By Design

# **APPENDIX B:**

Weather Summary for the 2014 Watermelon Variety Trial May 20<sup>th</sup> (transplanting) – August 20<sup>th</sup> (final harvest)

Appendix B: Weather Summary for the 2014 Watermelon Variety Trial May 20<sup>th</sup> (transplanting) – September 20<sup>th</sup> (final harvest)

May 20		nung) – Septemb		
DAT	Date	Max Temp °F	Min Temp °F	Rainfall (in.)
0	20-May	74.4	48.0	0
1	21-May	76.2	60.3	0.01
2	22-May	81.7	61.4	0.06
3	23-May	74.0	57.9	0
4	24-May	73.1	53.9	0
5	25-May	79.7	51.3	0
6	26-May	84.7	58.9	0
7	27-May	87.7	67.0	0.15
8	28-May	78.4	55.7	0
9	29-May	55.9	53.4	0.11
10	30-May	68.7	53.1	0.02
11	31-May	74.4	52.8	0
12	1-Jun	72.6	48.2	0
13	2-Jun	77.5	43.3	0
14	3-Jun	86.1	57.0	0
15	4-Jun	87.9	64.4	0.06
16	5-Jun	75.1	61.8	0.54
17	6-Jun	76.0	58.3	0
18	7-Jun	81.3	53.9	0
19	8-Jun	83.0	56.8	0
20	9-Jun	84.1	67.4	0
21	10-Jun	84.8	71.0	0.23
22	11-Jun	76.7	67.4	0.39
23	12-Jun	74.4	66.7	0.04
24	13-Jun	85.5	69.8	0
25	14-Jun	75.2	60.3	0
26	15-Jun	79.0	53.7	0
27	16-Jun	86.2	57.1	0
28	17-Jun	92.6	68.3	0
29	18-Jun	94.3	74.8	0
30	19-Jun	86.2	66.3	0.05
31	20-Jun	81.1	62.1	0
32	21-Jun	75.5	63.1	0.03
33	22-Jun	79.1	63.1	0
34	23-Jun	80.9	56.9	0
35	24-Jun	86.4	59.4	0
36	25-Jun	86.4	69.5	0.26
37	26-Jun	84.2	69.3	0.06
38	27-Jun	78.0	60.7	0
39	28-Jun	82.8	56.7	0
40	29-Jun	83.2	54.0	0
41	30-Jun	86.2	60.5	0
42	1-Jul	90.1	69.6	0
43	2-Jul	93.3	72.8	0
44	3-Jul	92.5	71.2	0
45	4-Jul	77.9	62.3	2.76
46	5-Jul	81.0	57.9	0
47	6-Jul	82.1	57.9	0
48	7-Jul	88.6	67.3	0
49	8-Jul	90.6	74.0	0
		55.5	, ,,,,	

DAT	Date	Max Temp (°F)	Min Temp (°F)	Rainfall (in.)
50	9-Jul	87.1	71.3	0.14
51	10-Jul	81.5	67.7	1.2
52	11-Jul	82.3	66.6	0
53	12-Jul	84.5	62.4	0.01
54	13-Jul	88.0	67.9	0
55	14-Jul	91.0	72.5	0.11
56	15-Jul	89.9	71.1	1.02
57	16-Jul	82.0	67.0	0.04
58	17-Jul	81.4	59.6	0
59	18-Jul	82.0	57.9	0
60	19-Jul	76.5	62.7	0
61	20-Jul	75.1	63.4	0.07
62	21-Jul	80.3	61.9	0
63	22-Jul	84.9	61.6	0
64	23-Jul	88.4	65.1	0.23
65	24-Jul	77.9	68.6	0.09
66	25-Jul	82.4	59.5	0
67	26-Jul	81.1	59.3	0.45
68	27-Jul	83.0	68.7	0
69	28-Jul	84.1	70.0	0
70	29-Jul	77.7	57.3	0
71	30-Jul	78.8	55.6	0
72	31-Jul	83.2	55.7	0
73	1-Aug	78.2	66.4	0.18
74	2-Aug	73.1	61.2	1.35
75	3-Aug	78.2	66.9	1.6
76	4-Aug	85.3	65.0	0
77	5-Aug	85.9	64.1	0.01
78	6-Aug	82.4	65.4	0
79	7-Aug	81.4	62.3	0
80	8-Aug	79.3	57.5	0
81	9-Aug	83.9	56.5	0
82	10-Aug	84.0	57.9	0
83	11-Aug	81.1	54.8	0
84	12-Aug	78.2	69.4	1.67
85	13-Aug	81.2	67.2	0
86	14-Aug	78.9	57.3	0
87	15-Aug	75.6	54.8	0
88	16-Aug	82.5	58.7	0.01
89	17-Aug	83.5	59.1	0
90	18-Aug	80.4	59.4	0
91	19-Aug	80.7	64.0	0.01
92	20-Aug	81.0	58.6	0