

Seedless Watermelon Variety Trial @ EREC - 2021

Greenhouse:

- Planted February 22; 128 cell trays; Premier FPX Plug and Germination Mix
- Germ room @ ~ 90°F (30.5°C); 48 hours

Transplanted – April 7, 2021

Plot Design:

- 8' row spacing; 3' in row spacing; 2 rows per plot; 240 sq. ft./plot
- 5 plants per row; 2 pollinizers per row; Syngenta's "SP-7"

Fert Application:

Date	Growth Stage	Rate	Days	Total lbs/A
7-Apr	Transplant	0.5 lb/A/day N & K	21	10.5
28-Apr	Runners to Flowering	1.0 lb/A/day N & K	16	16
14-May	Flowering to Fruit Set	1.5 lb/A/day N & K	12	18
26-May	Fruit Set & Growth	2.0 lb/A/day N & K	31	62
26-Jun	Harvest	1.0 lb/A/day N & K	12	12
8-Jul	End Fert	Total Fertigation, N & K		118.5
Pre-plant - 40 lbs N, P, K		Total N & K per acre		158.5

Drip Irrigation:

- Three (3) 52-minute cycles per day
- Total applied – 13.6 inches

Herbicide Application:

- April 21 – 15 DAP
- Shielded Sprayer
 - Reflex – 12 oz/A
 - Sandea – 1.0 oz/A
 - Gramoxone – 3 pt/A
 - NIS – 24 oz/100 gal H2O

Pest Control:

- Jacto Air Assist Sprayer

FUNGICIDE SPRAY PROGRAM - 2021			
ORDER	DATE	MATERIAL	RATE
1	30-Apr	BRAVO ULTREX	2.5 lbs / ACRE
		VENOM (Squash Bugs)	4 oz / ACRE
2	6-May	BRAVO ULTREX	2.5 lbs / ACRE
3	13-May	TEBUCONAZOLE	5 oz / ACRE
		VENOM (Squash Bugs)	4 oz / ACRE
4	20-May	MANZATE PROSTICK	2.5 lbs / ACRE
		QUINTEC	5 oz / ACRE
5	26-May	TEBUCONAZOLE	5 oz / ACRE
		FONTELLIS	16 oz / ACRE
6	4-Jun	MIRAVIS PRIME	11 oz / ACRE
		RANMAN	2.5 oz / ACRE
7	10-Jun	MANZATE PROSTICK	3 lbs / ACRE
		FONTELLIS	16 oz / ACRE
8	17-Jun	MIRAVIS PRIME	11 oz / ACRE
		QUINTEC	5 oz / ACRE
9	25-Jun	TEBUCONAZOLE	5 oz / ACRE
		FONTELLIS	16 oz / ACRE
10	1-Jul	APROVIA TOP	12 oz / ACRE
		QUINTEC	5 oz / ACRE

Harvest Dates:

- June 29, July 6, July 12, July 19

All Harvests Combined – Ranked by Yield/A

SEEDLESS WATERMELON VARIETY TRIAL AT EREC - 2021 - RANKED BY YIELD												
Variety	Source	Yield	Avg Wt (lbs)	Brix°	% TOTAL				LBS YIELD BY COUNT			
					30	36	45	60	30	36	45	60
7197	Nunhems	166,643	18.8	11.4	27.9	40.9	26.3	4.9	46,573	68,112	43,875	8,083
Summerlicious	Syngenta	160,689	20.0	10.9	43.5	33.0	20.5	3.0	69,878	52,998	32,973	4,840
Embassy	Nunhems	154,367	18.3	11.2	25.1	46.6	21.6	6.6	38,781	71,990	33,348	10,249
Talca	Origene	152,848	18.7	11.1	32.6	33.0	30.2	4.3	49,792	50,397	46,101	6,558
Shoreline	Seminis	151,614	18.2	10.9	29.4	32.6	31.7	6.3	44,504	49,489	48,062	9,559
Sierra Madre	Sakata	149,358	21.7	11.0	57.6	26.8	13.1	2.4	86,038	40,088	19,578	3,654
Red Amber	Enza Zaden	149,049	19.4	10.9	40.1	32.1	26.5	1.3	59,750	47,795	39,495	2,009
Sierra Nevada	Sakata	141,601	20.8	11.4	53.4	25.6	16.4	4.6	75,644	36,179	23,293	6,486
Captivation	Syngenta	140,664	19.3	11.1	38.8	28.3	27.7	5.1	54,596	39,858	38,999	7,212
E26C.00139	Enza Zaden	137,469	17.9	11.0	20.9	39.6	31.3	8.1	28,798	54,450	43,076	11,144
Powerhouse	Syngenta	135,098	17.9	11.0	32.7	28.1	28.7	10.5	44,214	37,898	38,757	14,230
E26C.00124	Enza Zaden	127,039	17.7	10.6	21.1	31.5	41.6	5.8	26,850	39,991	52,793	7,405
8415	Syngenta	125,732	18.2	10.7	29.7	34.8	26.6	8.9	37,353	43,754	33,396	11,229
LaJoya	Origene	123,566	14.8	11.1	1.1	25.5	45.1	28.3	1,331	31,545	55,721	34,969
Troubadour	Harris Moran	116,087	15.9	11.8	8.4	30.2	40.0	21.5	9,765	35,029	46,379	24,914
31610	Nunhems	115,653	21.0	11.7	55.5	28.6	13.5	2.4	64,143	33,106	15,621	2,783
6132c	Origene	113,269	15.7	11.1	9.5	23.2	50.1	17.2	10,781	26,318	56,725	19,445
Dark Knight	Syngenta	112,083	18.5	12.0	35.8	28.0	28.0	8.2	40,172	31,351	31,412	9,148
Fascination	Syngenta	110,934	19.2	11.1	34.0	31.8	28.2	5.9	37,752	35,320	31,279	6,582
6576	Seminis	105,059	16.8	11.5	17.6	35.9	29.9	16.7	18,441	37,728	31,363	17,527
Cracker Jack	Seedway	100,637	18.0	11.7	21.3	40.5	32.4	5.7	21,454	40,802	32,598	5,784
El Capitan	Sakata	96,135	18.6	10.8	33.0	35.7	21.3	10.0	31,726	34,304	20,473	9,632

All Harvests Combined – Ranked by 45 Count

SEEDLESS WATERMELON VARIETY TRIAL AT EREC - 2021 - RANKED BY 45 COUNT LBS												
Variety	Source	Yield	Avg Wt (lbs)	Brix°	% TOTAL				LBS YIELD BY COUNT			
					30	36	45	60	30	36	45	60
6132c	Origene	113,269	15.7	11.1	9.5	23.2	50.1	17.2	10,781	26,318	56,725	19,445
LaJoya	Origene	123,566	14.8	11.1	1.1	25.5	45.1	28.3	1,331	31,545	55,721	34,969
E26C.00124	Enza Zaden	127,039	17.7	10.6	21.1	31.5	41.6	5.8	26,850	39,991	52,793	7,405
Shoreline	Seminis	151,614	18.2	10.9	29.4	32.6	31.7	6.3	44,504	49,489	48,062	9,559
Troubadour	Harris Moran	116,087	15.9	11.8	8.4	30.2	40.0	21.5	9,765	35,029	46,379	24,914
Talca	Origene	152,848	18.7	11.1	32.6	33.0	30.2	4.3	49,792	50,397	46,101	6,558
7197	Nunhems	166,643	18.8	11.4	27.9	40.9	26.3	4.9	46,573	68,112	43,875	8,083
E26C.00139	Enza Zaden	137,469	17.9	11.0	20.9	39.6	31.3	8.1	28,798	54,450	43,076	11,144
Red Amber	Enza Zaden	149,049	19.4	10.9	40.1	32.1	26.5	1.3	59,750	47,795	39,495	2,009
Captivation	Syngenta	140,664	19.3	11.1	38.8	28.3	27.7	5.1	54,596	39,858	38,999	7,212
Powerhouse	Syngenta	135,098	17.9	11.0	32.7	28.1	28.7	10.5	44,214	37,898	38,757	14,230
8415	Syngenta	125,732	18.2	10.7	29.7	34.8	26.6	8.9	37,353	43,754	33,396	11,229
Embassy	Nunhems	154,367	18.3	11.2	25.1	46.6	21.6	6.6	38,781	71,990	33,348	10,249
Summerlicious	Syngenta	160,689	20.0	10.9	43.5	33.0	20.5	3.0	69,878	52,998	32,973	4,840
Cracker Jack	Seedway	100,637	18.0	11.7	21.3	40.5	32.4	5.7	21,454	40,802	32,598	5,784
Dark Knight	Syngenta	112,083	18.5	12.0	35.8	28.0	28.0	8.2	40,172	31,351	31,412	9,148
6576	Seminis	105,059	16.8	11.5	17.6	35.9	29.9	16.7	18,441	37,728	31,363	17,527
Fascination	Syngenta	110,934	19.2	11.1	34.0	31.8	28.2	5.9	37,752	35,320	31,279	6,582
Sierra Nevada	Sakata	141,601	20.8	11.4	53.4	25.6	16.4	4.6	75,644	36,179	23,293	6,486
El Capitan	Sakata	96,135	18.6	10.8	33.0	35.7	21.3	10.0	31,726	34,304	20,473	9,632
Sierra Madre	Sakata	149,358	21.7	11.0	57.6	26.8	13.1	2.4	86,038	40,088	19,578	3,654
31610	Nunhems	115,653	21.0	11.7	55.5	28.6	13.5	2.4	64,143	33,106	15,621	2,783

Yield by Harvest Date – Ranked by June 29 Harvest

SEEDLESS WATERMELON VARIETY TRIAL AT EREC - 2021 - RANKED BY 1ST HARVEST LBS										
Variety	Source	29-Jun	% Total	6-Jul	% Total	12-Jul	% Total	19-Jul	% Total	TOTAL
Talca	Origene	37,728	24.7	35,453	23.2	30,855	20.2	48,812	31.9	152,848
Dark Knight	Syngenta	36,905	32.9	19,554	17.4	19,663	17.5	35,961	32.1	112,083
Sierra Nevada	Sakata	35,235	24.9	34,842	24.6	32,331	22.8	39,192	27.7	141,601
Summerlicious	Syngenta	32,561	20.3	32,912	20.5	51,474	32.0	43,742	27.2	160,689
Powerhouse	Syngenta	32,186	23.8	30,299	22.4	32,791	24.3	39,821	29.5	135,098
Captivation	Syngenta	30,892	22.0	40,378	28.7	25,047	17.8	44,347	31.5	140,664
8415	Syngenta	30,637	24.4	24,987	19.9	24,599	19.6	45,508	36.2	125,732
Sierra Madre	Sakata	29,966	20.1	47,057	31.5	24,902	16.7	47,432	31.8	149,358
7197	Nunhems	29,052	17.4	49,586	29.8	30,468	18.3	57,536	34.5	166,643
Fascination	Syngenta	28,992	26.1	22,736	20.5	16,529	14.9	42,677	38.5	110,934
Red Amber	Enza Zaden	28,980	19.4	38,817	26.0	37,208	25.0	44,044	29.6	149,049
31610	Nunhems	28,254	24.4	25,894	22.4	19,723	17.1	41,782	36.1	115,653
E26C.00124	Enza Zaden	28,205	22.2	36,349	28.6	25,386	20.0	37,099	29.2	127,039
Shoreline	Seminis	27,177	17.9	45,944	30.3	35,889	23.7	42,604	28.1	151,614
LaJoya	Origene	26,693	21.6	25,930	21.0	29,476	23.9	41,467	33.6	123,566
E26C.00139	Enza Zaden	23,873	17.4	31,194	22.7	34,618	25.2	47,783	34.8	137,469
El Capitan	Sakata	23,002	23.9	23,861	24.8	18,283	19.0	30,988	32.2	96,135
Embassy	Nunhems	22,567	14.6	36,421	23.6	42,949	27.8	52,430	34.0	154,367
6576	Seminis	22,470	21.4	20,649	19.7	31,448	29.9	30,492	29.0	105,059
Troubadour	Harris Moran	21,236	18.3	18,719	16.1	30,456	26.2	45,678	39.3	116,087
6132c	Origene	13,746	12.1	23,026	20.3	34,872	30.8	41,624	36.7	113,269
Cracker Jack	Seedway	12,475	12.4	20,316	20.2	22,095	22.0	45,750	45.5	100,637

Mini Watermelon Variety Trial @ EREC – 2021

Greenhouse:

- Planted February 22; 128 cell trays; Premier FPX Plug and Germination Mix
- Germ room @ ~ 90°F (30.5°C); 48 hours

Transplanted – April 7, 2019

Plot Design:

- 6' row spacing; 1.5' in row spacing; 2 rows per plot; 90 sq. ft./plot
- 5 plants per row; 2 pollinizers per row; Pollinizer – “MickyLee”

Fert Application:

Date	Growth Stage	Rate	Days	Total lbs/A
7-Apr	Transplant	0.5 lb/A/day N & K	21	10.5
28-Apr	Runners to Flowering	1.0 lb/A/day N & K	16	16
14-May	Flowering to Fruit Set	1.5 lb/A/day N & K	12	18
26-May	Fruit Set & Growth	2.0 lb/A/day N & K	43	86
7-Jul	End Fert	Total Fertigation, N & K		130.5
Pre-plant - 40 lbs N, P, K		Total N & K per acre		170.5

Drip Irrigation:

- Three (3) 40-minute cycles per day
- Total applied – 13.2 inches

Herbicide Application, & Pest Control same as Seedless

Harvest Dates:

- June 24, June 29, July 6, July 12

All Harvests Combined – Ranked by Yield/A

Miniwatermelon Variety Trial at EREC - 2021					
Variety	Seed Source	lbs / 7260 linear ft	AVG WT (lbs)	Brix° (%)	No. / 7260 linear ft
Proxima	Origene	113,741	8.1	10.2	14,036
ORS7220	Origene	113,031	8.9	10.5	12,745
ORS7229	Origene	109,401	8.3	10.5	13,229
Nectaro	Hazera	107,788	7.3	10.2	14,843
31814	Nunhems	107,046	7.2	10.5	14,843
Preakness	Sakata	106,610	7.2	11.1	14,681
Excite	Hazera	105,868	7.5	10.4	14,036
Ladybelle	Nunhems	96,898	7.5	11.0	12,907
Cheetah	Hazera	87,766	7.1	10.5	12,261
Sirius	Syngenta	84,749	6.2	11.0	13,713
Petite Perfection	Syngenta	82,507	5.6	11.2	14,681

Miniwatermelon Yield – Sorted by Size

MINI WATERMELONS - EREC 2021 - LBS BY SIZE							
VARIETY	Seed Source	SMALL <3.1	8 CT 3.1 - 5.0	6 CT 5.1 - 7.0	LARGE 7.1 - 9.0	XLARGE > 9.1	TOTAL YIELD
Petite Perfection	Syngenta	484	22,748	42,721	16,553	0	82,506
Sirius	Syngenta	484	12,132	51,127	15,940	5,066	84,749
Nectaro	Hazera	0	8,099	31,622	42,512	25,555	107,788
Preakness	Sakata	0	6,098	37,430	42,463	20,619	106,610
31814	Nunhems	0	5,421	36,236	43,899	21,490	107,045
Cheetah	Hazera	0	5,066	32,945	35,365	14,391	87,766
Excite	Hazera	0	4,195	33,558	40,882	27,233	105,868
Ladybelle	Nunhems	0	4,066	36,752	31,105	24,975	96,898
ORS7229	Origene	0	3,711	17,166	38,462	50,062	109,401
Proxima	Origene	0	1,581	24,329	46,787	41,044	113,741
ORS7220	Origene	0	807	15,843	41,302	55,080	113,031