

# Onion Variety Trial - 2016



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## PRODUCTION INFORMATION

**Plots** - Planted 20' long X 2 rows on beds spaced 30" on centers. Rows were spaced 10" apart on top of the bed. Plants were hand-thinned to an in-row spacing ~3". Yield was determined from a 6' bed section (6' X 2 rows) of the plot. Each plot was replicated four times in the trial.

**Planted** – March 15<sup>th</sup>, 2016

**Fertilizer** - 104 lbs. P<sub>2</sub>O<sub>5</sub>/A and 22 lbs N/A as 11-52-0 at preplant. ~ 80 lbs. N/A residual (in top 18") and 50 lbs N as 46-0-0 supplied via irrigation water.

**Weed Control** –Glyphosate on April 4<sup>th</sup>; Prowl H20 on April 14<sup>th</sup>; Goaltender, Starane Ultra, and Outlook on May 13<sup>th</sup>; Goal, Dual, and Prowl on June 21<sup>st</sup>; Hand weeded 2 times

**Insect Control** – Movento on June 21<sup>st</sup>  
29<sup>th</sup> and August 9<sup>th</sup>

**Disease Control**- Copper and Dithane on July

**Irrigation** – The plots were irrigated multiple times via drip irrigation. Drip lines were placed down the center of every (30") bed at a depth of 3-4 inches. The amount of irrigation water applied was approximately 22.9" and seasonal precipitation was well above average at 10.7".

**Harvest** – September 19<sup>th</sup>

**Grade** – November 7<sup>th</sup>

## Comments

Despite several storms containing some hail, the 2016 season was very good for onion production. Overall, yields were the highest recorded in the history of the variety trial. Thrips pressure was generally low and required a single application of Movento before populations were below thresholds. Further, there was very little disease pressure and no observations of IYSV.

Please contact Mike Bartolo at the Arkansas Valley Research Center (phone: 719-254-6312; e-mail: michael.bartolo@colostate.edu) for additional information.

# ONION VARIETY TRIAL

Arkansas Valley Research Center  
Colorado State University, Rocky Ford, Colorado, 2016

Variety	Source	Maturity (% tops down) 8-26-16	Colossals > 4" %	Jumbos 3"-4" %	Medium 2.25"-3" %	Pre-Pack 1.75"-2.25" %	Total Market. 50# bags/A	Culls %	Total Yield 50# bags/A
Avalon	Crookham	82	23.4	66.7	4.2	0.5	<b>2003.1</b>	5.2	2114.9
Arcero	Nunhems	52	2.0	71.2	19.5	3.3	<b>1952.9</b>	3.9	2039.3
Grand Perfection	Takii	72	1.0	76.8	14.8	1.8	<b>1936.2</b>	5.5	2045.8
Vaquero	Nunhems	75	8.8	71.0	15.7	1.7	<b>1926.0</b>	2.7	1981.2
Morpheus	Crookham	67	8.1	77.2	9.8	1.0	<b>1910.8</b>	3.9	1990.6
Scout	Crookham	85	11.7	73.8	8.3	0.8	<b>1852.7</b>	5.3	1954.3
XP07716000	Seminis	85	13.4	63.5	15.3	2.3	<b>1850.5</b>	5.5	1957.2
Calibra	Bejo	62	1.0	77.1	15.9	1.5	<b>1847.6</b>	4.4	1937.6
Joaquin	Nunhems	67	3.9	73.1	21.1	1.0	<b>1836.7</b>	0.8	1853.4
SV6672NW	Seminis	75	3.2	77.4	10.1	1.6	<b>1799.7</b>	7.6	1946.4
Oracle	Crookham	50	4.6	81.7	10.8	0.7	<b>1789.5</b>	2.1	1828.7
Diamond Swan (W)	D. Palmer	47	1.3	70.6	20.2	2.9	<b>1783.0</b>	4.8	1873.8
Colorado 6	CSU	15	6.9	78.3	7.9	0.4	<b>1780.8</b>	6.5	1905.0
SV4058NU (W)	Seminis	47	0.0	66.6	26.5	3.0	<b>1766.6</b>	3.9	1841.4
Swale	Seminis	70	3.4	83.0	7.8	0.1	<b>1762.7</b>	5.6	1870.9
SV6646NW	Seminis	80	0.0	72.6	21.8	0.8	<b>1748.2</b>	4.7	1835.3
Tuscannon	Seminis	80	1.1	75.9	17.6	0.8	<b>1727.1</b>	4.6	1890.1
Delgado	Bejo	42	1.0	73.7	18.7	1.2	<b>1707.5</b>	5.3	1804.8
Sedona	Bejo	45	1.2	80.0	11.0	1.0	<b>1704.6</b>	6.7	1824.4
Hamilton	Bejo	15	2.6	77.7	12.2	0.8	<b>1640.0</b>	6.7	1756.1

Variety	Source	Maturity (% tops down) 9-6-15	Colossals > 4" %	Jumbos 3"-4" %	Medium 2.25"-3" %	Pre-Pack 1.75"- 2.25" %	<b>Total Market. 50# bags/A</b>	Culls %	Total Yield 50# bags/A
Legend	Bejo	60	0.0	61.4	30.4	1.7	<b>1637.8</b>	6.5	1751.1
Pandero	Nunhems	62	1.2	65.4	27.8	3.1	<b>1635.6</b>	2.4	1678.5
Granero	Nunhems	85	0.0	71.4	22.4	2.4	<b>1626.2</b>	3.9	1693.7
Anillo	Nunhems	72	0.0	75.6	21.2	1.8	<b>1579.6</b>	1.3	1600.6
SV4643NT (R)	Seminis	57	0.0	61.9	30.6	1.8	<b>1577.5</b>	5.7	1681.4
Crockett	Bejo	20	1.3	78.7	12.7	0.7	<b>1576.1</b>	6.5	1685.7
Ice Pearl	Bejo	55	0.0	84.7	12.9	0.6	<b>1533.3</b>	1.8	1558.7
Oloroso	Nunhems	70	0.0	57.7	41.1	1.2	<b>1502.0</b>	0.0	1502.0
Gunnison	Bejo	72	0.0	54.6	40.7	1.3	<b>1401.1</b>	3.3	1447.6
Saffron	D. Palmer	17	0.0	57.3	29.7	3.0	<b>1375.7</b>	10.0	1529.6
Traverse	Takii	87	0.0	54.6	37.3	2.7	<b>1374.3</b>	5.4	1457.0
Red Carpet (R)	Bejo	17	0.0	51.1	46.3	1.9	<b>1357.6</b>	0.7	1367.0
Talon	Bejo	72	0.0	46.0	48.9	2.4	<b>1316.9</b>	2.7	1359.0
Cherry Mt (R)	D. Palmer	10	0.0	41.3	43.3	5.4	<b>1298.0</b>	9.9	1452.0
Ridgeline	Takii	87	0.0	52.9	41.0	3.2	<b>1272.6</b>	2.8	1310.4
Red Beret (R)	Crookham	45	0.0	37.4	55.1	4.3	<b>1256.7</b>	3.1	1300.9

Isd (0.1) =

190.7

(W) = white-skinned, (R) = red-skinned, all other yellows