



## 2017 COLUMBIA BASIN ONION CULTIVAR DEMONSTRATION RESULTS<sup>1</sup>

Seed Company & Cultivar	Usable <sup>2</sup> Yield T/A	Bulb Size and Defects <sup>3</sup> Yield by weight and (% of total bulb count)					Bulb Count <sup>4</sup>	Tops Down <sup>5</sup> %	Thrips Damage <sup>6</sup> (0-10)
		Pre-pack (<2.25") T/A (%)	Medium (2.25-3") T/A (%)	Jumbo (3-4") T/A (%)	Colossal (>4") T/A (%)	Culls T/A (%)			
<b>American Takii</b>									
Centerstone	41.3	0.1 (4)	6.2 (24)	34.9 (70)	0.0 (0)	0.7 (1)	45	0	4.7
Frontier	28.4	0.4 (6)	7.3 (34)	20.7 (59)	0.0 (0)	0.1 (1)	39	30	7.3
Grand Perfection	53.4	0.2 (2)	2.9 (10)	45.4 (76)	4.9 (6)	3.2 (6)	46	5	2.3
Highlander	46.1	0.1 (2)	11.0 (35)	34.5 (61)	0.6 (1)	0.5 (2)	56	95	9.0
Milestone	36.9	0.4 (3)	11.8 (44)	24.7 (53)	0.0 (0)	0.0 (0)	46	0	5.7
Ridge Line	45.8	0.2 (2)	11.0 (34)	34.6 (63)	0.0 (0)	0.0 (0)	54	45	6.3
Traverse	51.0	0.1 (2)	9.3 (26)	41.7 (72)	0.0 (0)	0.0 (0)	59	80	6.3
Trekker	35.1	0.5 (4)	20.4 (66)	14.2 (30)	0.0 (0)	0.0 (0)	56	90	7.7
<b>Bayer/Nunhems</b>									
Airoso	41.1	0.1 (3)	9.6 (36)	30.8 (60)	0.6 (1)	0.0 (0)	50	5	5.0
Anillo	51.4	0.2 (3)	9.3 (30)	41.3 (64)	0.6 (1)	0.8 (2)	53	5	3.0
Arcero	50.9	0.3 (4)	6.1 (18)	42.7 (77)	1.8 (2)	0.0 (0)	50	5	3.3
Granero	52.1	0.3 (3)	6.2 (20)	45.2 (74)	0.5 (1)	0.4 (2)	50	5	2.7
Montero	50.5	0.3 (4)	5.6 (20)	38.7 (69)	5.9 (7)	0.0 (0)	50	20	5.0
Oloroso	45.4	0.3 (4)	9.6 (31)	35.0 (64)	0.6 (1)	0.0 (0)	52	5	3.0
Ranchero	67.6	0.1 (1)	3.4 (11)	54.0 (78)	10.1 (9)	0.0 (0)	59	5	2.3
Vaquero	54.2	0.1 (1)	3.6 (15)	40.7 (71)	9.9 (12)	0.2 (1)	45	5	3.0
<b>Bejo Seeds</b>									
Calibra	40.5	0.4 (5)	4.1 (17)	34.7 (74)	1.2 (2)	1.0 (2)	43	10	2.7
Crockett	50.0	0.3 (4)	11.3 (32)	38.4 (64)	0.0 (0)	0.0 (0)	56	0	3.3
Dawson	43.8	0.4 (6)	9.9 (31)	32.3 (60)	1.2 (2)	0.9 (1)	49	5	4.0
Hamilton	48.7	0.1 (1)	11.4 (36)	37.3 (62)	0.0 (0)	0.2 (1)	56	5	3.3
Legend	49.6	0.1 (3)	8.1 (25)	41.4 (72)	0.0 (0)	0.4 (1)	53	10	3.0
Mondella	47.0	0.1 (3)	9.9 (30)	37.0 (67)	0.0 (0)	0.0 (0)	53	10	4.0
Red Carpet (R)	40.4	0.1 (1)	18.0 (34)	22.3 (65)	0.0 (0)	0.0 (0)	48	5	4.0
Talon	44.8	0.4 (3)	14.8 (42)	29.7 (54)	0.0 (0)	0.2 (1)	60	60	5.7
Tamara	38.0	0.5 (4)	17.6 (55)	19.9 (41)	0.0 (0)	0.0 (0)	55	60	5.7
<b>Crookham Co.</b>									
Advantage	61.7	0.3 (4)	3.8 (12)	53.9 (79)	3.7 (4)	0.3 (1)	52	5	1.3
Brundage (W)	48.5	0.5 (6)	4.1 (15)	40.1 (74)	3.7 (5)	0.1 (1)	45	25	2.7
Morpheus	62.2	0.1 (1)	3.9 (13)	49.8 (77)	8.4 (9)	0.0 (0)	53	10	2.0
OLYX08-640	43.1	0.4 (4)	10.2 (33)	31.9 (63)	0.6 (1)	0.0 (0)	50	70	4.0

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		Pre-pack (<2.25") T/A (%)	Medium (2.25-3") T/A (%)	Jumbo (3-4") T/A (%)	Colossal (>4") T/A (%)	Culls T/A (%)			
<b>Crookham Co. cont.</b>									
Purple Haze (R)	36.0	0.3 (4)	16.2 (56)	19.5 (41)	0.0 (0)	0.0 (0)	52	20	5.7
Red Beret (R)	38.6	1.1 (8)	15.2 (36)	21.8 (54)	0.6 (1)	0.2 (1)	48	10	5.7
Red Devil (R)	34.2	0.2 (3)	13.9 (53)	20.1 (44)	0.0 (0)	0.0 (0)	49	5	5.3
Scout	69.0	0.1 (1)	2.8 (9)	49.4 (72)	16.7 (17)	0.0 (0)	52	15	2.3
White Cloud (W)	54.6	0.2 (2)	2.9 (10)	40.3 (71)	11.3 (14)	1.9 (3)	47	5	3.3
<b>Enza Zaden</b>									
Caoba	50.6	0.3 (3)	4.4 (16)	42.5 (75)	3.4 (4)	0.7 (1)	48	5	1.0
E61L. 10043	57.9	0.2 (4)	7.3 (22)	46.1 (69)	4.4 (4)	1.4 (2)	58	10	2.3
E61L. 10058	49.7	0.1 (1)	6.0 (20)	40.0 (73)	3.6 (4)	2.1 (3)	57	70	6.3
Monastrell (R)	46.7	0.2 (3)	3.2 (14)	36.9 (72)	6.3 (9)	1.4 (3)	48	30	5.7
<b>Hazera</b>									
Ceresco	32.4	0.3 (4)	14.3 (52)	17.8 (42)	0.0 (0)	0.8 (2)	47	60	7.7
Cruiser	48.8	0.7 (4)	11.2 (35)	37.0 (62)	0.0 (0)	0.0 (0)	57	5	5.3
Rhino	55.0	0.6 (6)	4.7 (14)	46.8 (77)	3.0 (3)	0.0 (0)	52	35	3.3
<b>Sakata Seed</b>									
Aruba	59.6	0.2 (3)	2.7 (9)	45.8 (75)	10.8 (12)	0.4 (1)	48	10	2.7
Dulce Reina	63.0	0.1 (1)	5.4 (16)	53.2 (77)	4.3 (4)	0.3 (2)	56	5	2.3
Lasso	61.4	0.3 (3)	6.5 (19)	49.8 (73)	4.9 (4)	0.4 (0)	59	15	2.7
<b>Seminis Veg. Seeds</b>									
Red Nugent (R)	55.5	0.4 (4)	4.9 (16)	34.7 (61)	15.5 (18)	1.0 (1)	52	50	5.3
SV4058NU	60.4	0.2 (2)	8.5 (14)	46.5 (72)	5.2 (10)	0.6 (2)	54	5	3.0
SV4643NT (R)	45.5	0.2 (3)	9.8 (33)	35.5 (63)	0.0 (0)	0.6 (1)	53	30	5.3
SV6672NW	61.3	0.4 (3)	4.7 (14)	48.4 (73)	7.8 (8)	0.4 (1)	53	5	3.3
Swale	58.8	0.3 (3)	3.5 (12)	49.9 (80)	5.1 (5)	0.0 (0)	51	5	3.7
Tucannon	52.8	0.4 (5)	4.8 (18)	41.6 (68)	6.0 (8)	0.5 (1)	49	10	3.0
XP07716000	65.6	0.1 (1)	5.5 (17)	46.3 (69)	13.7 (13)	0.0 (0)	57	10	2.7
<b>AVERAGES</b>	<b>49.5</b>	<b>0.3 (3)</b>	<b>8.2 (26)</b>	<b>37.6 (26)</b>	<b>3.5 (4)</b>	<b>0.4 (1)</b>	<b>52</b>	<b>20</b>	<b>4.1</b>

<sup>1</sup> Yield data are averaged from three replicate plots.

<sup>2</sup> The usable yield is the cumulative yield of all bulb size categories in tons per acre and does not include culls.

<sup>3</sup> Yield for each size category and culls is expressed in tons per acre AND as a percentage of the total bulb count (shown in parenthesis). Defects include split bulbs, severely split skins, and rotten bulbs.

<sup>4</sup> The bulb count is the average number of bulbs from a 5-ft section of each plot.

<sup>5</sup> The percentage of the tops estimated to have fallen as of Aug. 11, 2017; averages from three replicate plots.

<sup>6</sup> Thrips feeding damage on leaves was rated on Aug. 11, 2017; a rating of 0 is no damage and 10 is all leaf surface area damaged; averages from three replicate plots.

## **Onion Cultivar Trial Overview:**

The onion cultivar trial was planted on April 6, 2017 with a Stanhay vacuum planter on 34-in beds with two double rows per bed and 4-in in-row seed spacing. Each cultivar was planted in three replicated plots. Plots were 34-in wide by 30-ft long with two double rows. The drip irrigated field was managed by Weyns Farms and was located near Bruce, WA (east of Othello). The trial was planted in a block of Redwing. Tops down (maturity) and thrips feeding damage to leaves were evaluated for each plot on August 11. Plots were not rated for bolting, because none of the cultivars were seen to bolt. A 5-ft section of each plot was topped and hand-harvested on September 15.

## **Participating Companies:**

American Takii, Inc., 301 Natividad Rd., Salinas, CA 93906

Bayer/Nunhems USA, 8850 59th Ave. NE, Brooks, OR 97305

Bejo Seeds, Inc., 1972 Silver Spur Place, Oceano, CA 93445

Crookham Company, P.O. Box 520, Caldwell, ID 83606.

Hazera Seeds, Inc., 6601 Lyons Road, Suite H-10, Coconut Creek, FL 33073

Enza Zaden USA, Inc., 7 Harris Place, Salinas, CA 93901

Sakata Seed America, Inc., New Mexico Station, P.O. Drawer F, Messilla, NM 88046

Seminis Vegetable Seeds, 32537 Apple Valley Rd, Parma, ID 83660

## **Special thanks for the cooperation and assistance of:**

HOST: Ko Weyns, *Weyns Farms*

PLANTING: Brandon Kania and Jim Christopherson, *Bejo Seeds*

HARVEST: Josh Carter, Curtis Mokler, and Patrick Ross, *Keithly-Williams Seeds*; Casey Crookham and Jimmy Graton, *Gowan Company*; Michael Navarrete, *Seminis Vegetable Seeds*.

## **If you have questions or comments:**

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