

## 2020 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)					Culls T/A (%)	Bulb Count <sup>4</sup>	Tops Down <sup>5</sup> %
		Pre-pack (<2.25") T/A (%)	Medium (2.25-3") T/A (%)	Jumbo (3-4") T/A (%)	Colossal (>4") T/A (%)				
<b>American Takii</b>									
Frontier	40.3	0.2 (2)	4.4 (17)	35.1 (79)	0.6 (1)	0.6 (1)	45	43	
Grand Perfection	54.9	0.1 (1)	1.2 (7)	29.5 (58)	24.0 (31)	1.5 (3)	41	82	
Highlander	52.8	0.1 (2)	2.1 (8)	37.1 (67)	13.5 (22)	0.7 (1)	43	69	
Milestone	48.4	0.2 (2)	2.4 (10)	41.4 (81)	4.4 (6)	0.5 (1)	47	10	
Outlander	50.5	0.5 (4)	2.8 (10)	42.8 (78)	4.3 (5)	0.5 (3)	51	20	
Ridgeline	41.8	0.1 (1)	3.3 (12)	28.5 (64)	9.8 (18)	1.5 (5)	36	60	
Traverse	49.0	0.1 (2)	1.0 (4)	39.4 (79)	8.4 (13)	0.9 (2)	43	35	
Trekker	48.8	0.0 (0)	5.7 (18)	41.3 (77)	1.9 (3)	0.6 (2)	52	37	
<b>BASF Nunhems</b>									
Airoso	43.0	0.4 (4)	6.2 (24)	32.9 (67)	3.5 (5)	0.0 (0)	46	47	
Anillo	44.6	0.3 (4)	1.6 (7)	36.0 (76)	6.6 (9)	0.5 (4)	42	35	
Arcero	51.6	0.2 (1)	2.0 (9)	39.7 (77)	9.7 (12)	0.3 (1)	44	62	
Cometa (W)	46.6	0.1 (1)	4.7 (19)	39.8 (76)	2.0 (2)	0.5 (2)	51	68	
Granero	50.5	0.1 (1)	2.9 (12)	39.5 (77)	8.0 (10)	0.3 (1)	48	42	
Joaquin	47.5	0.1 (2)	2.9 (13)	34.5 (72)	9.1 (12)	0.3 (2)	43	48	
Marengo (R)	42.0	0.1 (2)	2.9 (12)	36.8 (80)	2.1 (3)	0.3 (3)	45	45	
Montero	57.9	0.0 (0)	1.5 (7)	35.0 (61)	21.4 (29)	0.8 (3)	48	38	
Oloroso	51.4	0.1 (2)	7.5 (24)	43.9 (73)	0.0 (0)	0.4 (1)	58	65	
Ranchero	57.2	1.2 (7)	2.8 (10)	38.3 (65)	14.9 (17)	0.3 (1)	54	58	
Rhea (W)	47.6	0.2 (3)	3.4 (15)	41.0 (78)	2.9 (4)	0.0 (0)	47	58	
Vaquero	46.4	0.3 (5)	2.3 (10)	34.1 (71)	9.7 (14)	0.0 (0)	42	68	
<b>Bejo Seeds</b>									
Dawson	55.9	0.2 (3)	6.6 (21)	46.9 (74)	2.3 (2)	0.1 (1)	59	65	
Hamilton	50.3	0.2 (2)	2.0 (9)	40.2 (74)	8.0 (10)	1.9 (5)	45	57	
Legend	51.3	0.0 (0)	1.6 (7)	41.4 (80)	8.3 (11)	0.2 (2)	44	59	
Mondella	49.7	0.2 (2)	2.0 (8)	42.5 (81)	4.9 (7)	0.8 (2)	48	65	
Red Carpet (R)	45.8	0.0 (0)	4.9 (16)	39.9 (82)	1.0 (1)	0.1 (1)	49	12	
Red Mountain (R)	41.1	0.1 (2)	3.0 (14)	36.4 (80)	1.6 (3)	0.4 (1)	42	18	
Red Wing (R)	47.6	0.0 (0)	4.9 (18)	42.8 (79)	0.0 (0)	1.3 (3)	50	33	
Tamara	41.2	0.1 (1)	3.8 (16)	37.3 (83)	0.0 (0)	0.2 (1)	44	7	

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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 (%)				
<b>Crookham Co.</b>									
Avalon	70.6	0.1 (1)	2.2 (7)	41.8 (64)	26.6 (28)	0.1 (1)	54	11	
Brundage (W)	53.2	0.2 (2)	4.5 (15)	43.4 (77)	5.1 (5)	0.0 (0)	53	32	
Caldwell	62.5	0.4 (3)	2.5 (10)	38.2 (63)	21.4 (23)	0.3 (1)	53	32	
Caliber	50.2	0.1 (2)	2.6 (10)	34.5 (67)	13.0 (17)	1.6 (4)	43	40	
Purple Haze (R)	34.3	0.4 (6)	7.7 (33)	24.6 (59)	1.6 (2)	0.0 (0)	42	15	
Red Beret (R)	37.7	0.2 (2)	9.7 (38)	26.3 (57)	1.6 (2)	0.0 (0)	46	30	
Scout	52.7	0.3 (7)	0.8 (3)	34.2 (63)	17.5 (22)	2.6 (5)	43	68	
Trident	52.2	0.3 (3)	7.2 (23)	39.7 (69)	5.1 (6)	0.0 (0)	54	40	
White Cap (W)	43.7	0.1 (1)	5.4 (21)	31.1 (62)	7.2 (10)	1.8 (5)	44	17	
White Cloud (W)	43.3	0.1 (1)	2.3 (12)	29.9 (62)	11.1 (17)	1.6 (8)	39	10	
<b>Enza Zaden</b>									
Barolo (R)	38.9	0.2 (2)	5.2 (23)	28.0 (63)	5.6 (8)	1.4 (3)	42	8	
Elsye	60.2	0.2 (2)	3.3 (13)	23.1 (43)	33.7 (38)	2.4 (4)	47	10	
<b>Hazera Seeds</b>									
37-118 F1	38.9	0.1 (2)	4.5 (21)	27.7 (65)	6.6 (11)	0.5 (2)	41	12	
37-120 F1	41.1	0.3 (3)	6.4 (24)	32.8 (70)	1.6 (2)	0.2 (1)	46	23	
37-121 F1	41.0	0.2 (2)	2.3 (10)	32.8 (70)	5.7 (8)	3.3 (11)	42	0	
<b>Sakata Seed</b>									
Ovation	58.3	0.3 (4)	0.6 (2)	28.9 (56)	28.5 (37)	0.2 (1)	43	37	
Spanish Medallion	62.3	0.0 (0)	1.7 (6)	32.5 (58)	28.1 (34)	0.5 (1)	46	25	
Yosemite	51.5	0.0 (0)	3.7 (16)	33.6 (63)	14.2 (18)	1.7 (3)	45	28	
Yukon	52.5	0.1 (1)	4.2 (16)	36.7 (67)	11.6 (15)	0.7 (2)	47	58	
<b>Seminis Veg Seeds</b>									
Crusher	59.3	0.1 (1)	2.9 (10)	47.1 (78)	9.2 (10)	0.0 (0)	51	66	
SV6672NW	53.0	0.2 (2)	1.3 (5)	39.4 (70)	12.1 (16)	2.4 (6)	47	12	
Tucannon	54.9	0.3 (2)	3.7 (11)	42.2 (74)	8.7 (12)	0.0 (0)	49	5	
XPO7716000	53.7	0.4 (2)	1.8 (8)	37.5 (71)	14.1 (16)	1.5 (4)	48	28	
<b>AVERAGES</b>	<b>49.1</b>	<b>0.2 (2)</b>	<b>3.5 (14)</b>	<b>36.2 (70)</b>	<b>9.2 (12)</b>	<b>0.8 (2)</b>	<b>46</b>	<b>38</b>	

<sup>1</sup> Yield data were collected from a 5-ft section of each plot and are averaged from three replicate plots.

<sup>2</sup> The usable yield is the cumulative yield (by weight) of all bulb sizes 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 double or split bulbs, rotten bulbs, and bulbs with seed stalks.

<sup>4</sup> The bulb count is the number of bulbs from a 5-ft section of each plot and is averaged from three replicate plots.

<sup>5</sup> The percentage of the tops estimated to have fallen as of August 16, shown as averages from three replicate plots.

## **Onion Cultivar Trial Overview:**

The onion cultivar trial was planted on March 31, 2020 with a Stanhay vacuum planter on 68-in beds with four 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 center pivot irrigated field was managed by Olsen Onions and was located east of Pasco on the Pasco Kahlotus Road. Tops down (maturity) were evaluated for each plot on August 10. The onions were lifted on September 12. A 5-ft section of each plot was topped on September 16 and hand-harvested on September 17.

## **Participating Companies:**

American Takii, Inc., 301 Natividad Rd., Salinas, CA 93906; (831) 443-4901

BASF Nunhems USA, 1200 Anderson Corner Rd., Parma, ID 83660; (208) 674-4000

Bejo Seeds, Inc., 1972 Silver Spur Place, Oceano, CA 93445; (805) 473-2199

Crookham Company, 301 W Warehouse St., Caldwell, ID 83605; (208) 459-7451

Enza Zaden USA, Inc., 7 Harris Place, Salinas, CA 93901; (831) 754-2300

Hazera USA, 3155 SW 10th Street, Suite 6L, Dearfield Beach, FL 33442 ; (954) 429-9445

Sakata Seed America, Inc., 18095 Serene Drive, Morgan Hill, CA 95037; (408) 778-7758

Seminis Vegetable Seeds, 800 North Lindbergh Blvd, St. Louis, MO 63167; (866) 334-1056

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

HOST: Olsen Onion

TECHNICAL ASSISTANCE: Jennifer Darner, *WSU Extension*

PLANTING: Jim Christopherson, *Bejo Seeds*

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