



## 2024 COLUMBIA BASIN ONION CULTIVAR DEMONSTRATION RESULTS<sup>1</sup>

In the table below, the Pre-Pack, Medium, Jumbo, Colossal, and Culls columns are the bulb size and defects<sup>3</sup> – yield by weight and percentage of total bulb count

Seed Company & Cultivar	Usable <sup>2</sup> Yield T/A	Pre-pack (<2.25") T/A (%)	Medium (2.25-3") T/A (%)	Jumbo (3-4") T/A (%)	Colossal (>4") T/A (%)	Culls T/A (%)	Bulb Count <sup>4</sup>
<b>American Takii</b>							
Lodestar	36.3	0.1 (1)	2.9 (10)	33.4 (80)	0.0 (0)	3.0 (9)	53
Switchback	43.2	0.4 (3)	4.6 (17)	37.4 (78)	0.9 (1)	0.1 (1)	54
Traverse	49.7	0.2 (2)	1.5 (6)	41.9 (76)	6.1 (8)	4.3 (8)	58
Frontier	36.2	0.4 (3)	2.6 (10)	31.8 (78)	1.5 (3)	1.9 (7)	50
Outlander	31.7	0.1 (1)	1.0 (6)	27.8 (69)	2.8 (4)	10.3 (20)	48
Ridgeline	44.6	0.2 (2)	1.3 (5)	37.3 (74)	5.9 (8)	4.7 (11)	51
Highlander	49.6	0.1 (1)	2.1 (8)	41.5 (77)	5.8 (7)	4.7 (8)	61
<b>Bejo Seeds</b>							
Red Mountain	39.2	0.0 (0)	3.0 (11)	35.8 (75)	0.5 (1)	2.5 (13)	57
Crockett	44.5	0.0 (0)	1.5 (7)	34.7 (74)	8.3 (12)	1.4 (7)	49
Redwing	61.2	0.1 (0)	3.0 (7)	55.6 (85)	2.5 (3)	1.6 (4)	73
Legend	53.2	0.0 (0)	1.8 (6)	47.8 (87)	3.7 (5)	0.7 (2)	61
Red Carpet	38.6	0.1 (1)	2.4 (9)	34.7 (73)	1.4 (2)	4.8 (16)	60
Yakama	58.8	0.2 (2)	0.7 (3)	34.5 (64)	23.4 (29)	1.7 (3)	57
Red Eagle	50.6	0.1 (1)	2.9 (25)	45.4 (56)	2.2 (7)	2.4 (11)	43
EXP 375	56.2	0.0 (0)	4.2 (12)	48.7 (84)	3.3 (4)	0.0 (0)	65
<b>Crookham Company</b>							
Delightful	53.6	0.2 (2)	1.4 (5)	20.8 (36)	31.1 (35)	15.6 (22)	57
Scout	60.3	0.0 (0)	0.3 (1)	24.2 (43)	35.9 (44)	7.4 (11)	52
White Cloud	66.8	0.2 (2)	1.4 (5)	40.3 (63)	24.9 (29)	1.6 (2)	64
Caliber	52.7	0.3 (4)	1.8 (8)	25.1 (54)	25.4 (33)	0.3 (1)	53
Epic	57.3	0.0 (0)	1.0 (4)	39.5 (72)	16.8 (21)	1.2 (2)	59
Caldwell	60.7	0.1 (3)	2.6 (9)	37.2 (62)	20.8 (24)	0.6 (2)	60
Brundage	47.9	0.1 (1)	1.9 (9)	34.9 (71)	11.0 (24)	1.2 (4)	48
White Cap	54.5	0.2 (2)	1.3 (6)	31.7 (61)	21.4 (29)	1.3 (2)	49
Defender	61.0	0.0 (0)	1.8 (6)	44.4 (75)	14.8 (18)	0.6 (1)	62
Trident	50.9	0.2 (2)	1.5 (5)	41.1 (75)	8.1 (10)	4.1 (9)	60
<b>Hazera Seeds</b>							
Thunderstone	47.9	0.0 (0)	1.0 (4)	31.3 (69)	15.6 (22)	1.4 (5)	50
Copperstone	44.6	0.1 (1)	0.3 (2)	21.2 (51)	23.1 (40)	1.9 (7)	41
37-128 F1	32.6	0.2 (1)	8.2 (32)	23.5 (57)	0.8 (1)	3.5 (8)	58

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<b>Nunhems - BASF</b>							
Airoso	50.0	0.3 (2)	2.4 (10)	35.5 (71)	11.9 (17)	0.0 (0)	53
Anillo	51.9	0.1 (1)	1.1 (4)	41.0 (75)	9.6 (12)	2.5 (8)	58
Arcero	56.0	0.0 (0)	0.6 (3)	36.3 (68)	19.2 (26)	1.3 (3)	50
Campero	59.8	0.0 (0)	0.8 (3)	48.1 (84)	10.9 (13)	0.0 (0)	58
Cometa	60.1	0.1 (2)	0.1 (1)	47.0 (81)	12.9 (15)	1.0 (2)	57
Glorioso	51.2	0.8 (5)	6.1 (18)	36.3 (60)	8.0 (9)	3.3 (8)	64
Granero	53.7	0.0 (0)	1.1 (4)	42.9 (75)	9.7 (11)	2.5 (10)	59
Joaquin	59.4	0.1 (1)	2.2 (7)	44.8 (73)	12.3 (14)	1.5 (5)	58
Marengo	20.2	0.0 (0)	1.7 (9)	15.1 (40)	3.4 (6)	6.2 (44)	43
Montero	50.5	0.2 (2)	4.7 (16)	31.8 (57)	13.9 (15)	3.9 (10)	71
Oloroso	46.1	0.1 (1)	1.9 (8)	37.1 (69)	7.1 (10)	3.6 (11)	54
Rhea	63.1	0.1 (1)	0.8 (3)	43.7 (71)	18.5 (21)	1.5 (5)	59
Vaquero	66.7	0.1 (1)	0.6 (3)	42.2 (64)	23.8 (25)	0.6 (7)	66
NUN 6005	56.5	0.1 (1)	2.0 (6)	26.5 (45)	27.9 (36)	3.4 (12)	60
<b>Seminis – Bayer</b>							
Hatchet	58.8	0.2 (1)	0.6 (2)	37.8 (61)	20.3 (23)	4.2 (12)	61
Almanzoro	60.4	0.1 (1)	1.4 (4)	45.0 (72)	13.9 (15)	1.7 (7)	61
Crusher	59.0	0.0 (0)	0.5 (2)	36.8 (68)	21.7 (22)	0.5 (8)	64
Tucannon	56.7	0.2 (1)	1.8 (6)	37.6 (65)	17.0 (20)	1.3 (7)	61
<b>AVERAGES</b>	<b>51.4</b>	<b>0.1 (1)</b>	<b>1.9 (8)</b>	<b>36.7 (68)</b>	<b>12.6 (16)</b>	<b>2.7 (8)</b>	<b>57</b>

<sup>1</sup> Yield data were collected from a 5-ft section of each plot and are averaged from three replicate plots, except for Montero where only two replicate plots were used.

<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.

### Onion Cultivar Trial Overview:

The onion cultivar trial was planted on March 29, 2024, with a Stanhay vacuum planter on 44-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 44-in wide by 30-ft long with two double rows. The center pivot irrigated field was managed by Hartley Farms in the Horse Heaven Hills area. The onions were lifted on September 6. A 5-ft section of each plot was topped on September 23 and hand-harvested on September 24.

**Participating Companies:**

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

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

Crookham Company, 301 W Warehouse St., Caldwell, ID

Hazera USA, 3155 SW 10th Street, Suite 6L, Deerfield Beach, FL

Nunhems USA - BASF, 1200 Anderson Corner Rd., Parma, ID

Seminis Vegetable Seeds - Bayer, 800 North Lindbergh Blvd, St. Louis, MO

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

HOST: Hartley Farms

PLANTING: Jim Christopherson, *Bejo Seeds*

HARVEST: Josh Carter, Samantha Moradel, and Patrick Ross, Keithly Williams Seeds; Jimmy Graton, Curtis Mokler and Steven Gillen, Gowan Seed; Jason Turner, TS&L Seeds; Zack Frederick, Seminis Vegetable Seeds

**If you have questions or comments:**

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