

Seed Company & Cultivar	Usable ² Yield T/A	Bulb Size and Defects ³ Yield by weight and (% of total bulb count)					Culls T/A (%)	Bulb Count ⁴	Tops Down ⁵ %
		Pre-pack (<2.25") T/A (%)	Medium (2.25-3") T/A (%)	Jumbo (3-4") T/A (%)	Colossal (>4") T/A (%)				
Enza Zaden									
Barolo (R)	51.4	0.3 (2)	7.1 (23)	41.6 (60)	2.4 (3)	4.6 (12)	49	30	
Elsye	48.4	0.7 (6)	3.7 (15)	29.0 (58)	14.9 (18)	1.0 (2)	44	80	
Tannat (R)	55.1	0.7 (5)	3.7 (13)	44.5 (71)	6.2 (7)	1.1 (5)	50	0	
Hazera Seeds									
37-126-F1	37.3	0.2 (2)	1.0 (6)	29.3 (76)	6.8 (12)	0.8 (3)	30	10	
37-127-F1	50.4	0.1 (1)	1.2 (5)	41.9 (79)	7.1 (10)	1.2 (6)	42	0	
8104 Onion	39.0	0.3 (2)	7.2 (25)	31.4 (69)	0.0 (0)	0.3 (3)	46	20	
Thunderstone	34.4	0.1 (1)	7.5 (34)	25.7 (61)	1.1 (2)	0.6 (2)	38	10	
Nunhems - BASF									
Airoso	42.7	0.8 (7)	6.7 (25)	34.1 (64)	1.1 (2)	0.7 (2)	44	10	
Anillo	50.5	0.6 (6)	5.2 (20)	44.1 (67)	0.7 (1)	1.9 (7)	46	10	
Arcero	58.3	0.3 (2)	2.7 (10)	53.4 (84)	1.8 (2)	1.0 (2)	48	0	
Cometa (W)	57.6	0.2 (2)	7.1 (10)	49.7 (86)	0.6 (1)	0.5 (2)	50	10	
Glorioso	42.4	0.7 (5)	7.6 (24)	34.1 (68)	0.0 (0)	0.9 (3)	46	50	
Granero	55.7	0.0 (0)	3.1 (10)	51.0 (85)	1.7 (2)	0.7 (3)	47	10	
Joaquin	52.8	0.3 (3)	5.9 (17)	45.3 (75)	1.2 (1)	1.2 (4)	48	0	
Marengo (R)	34.0	0.3 (5)	5.7 (22)	27.3 (56)	0.7 (1)	4.5 (17)	44	0	
Montero	53.2	0.1 (1)	2.3 (8)	35.7 (64)	15.1 (19)	2.3 (7)	45	30	
Oloroso	40.7	0.6 (5)	6.0 (22)	34.1 (67)	0.0 (0)	1.8 (6)	46	0	
Rhea (W)	58.3	0.1 (1)	6.4 (19)	51.8 (78)	0.0 (0)	0.8 (3)	54	0	
Vaquero	48.0	0.1 (1)	4.9 (18)	34.6 (63)	8.5 (11)	1.4 (8)	45	10	
Seminis Veg Seeds									
Almanzoro	47.8	0.7 (5)	8.6 (25)	37.9 (67)	0.7 (1)	0.5 (3)	51	10	
Crusher	50.4	0.8 (7)	6.4 (20)	43.2 (70)	0.0 (0)	0.5 (3)	51	10	
Hatchet	55.0	0.5 (4)	5.5 (18)	47.3 (72)	1.7 (2)	1.8 (4)	54	10	
Jawbridge	47.5	0.9 (6)	5.1 (16)	37.7 (65)	3.7 (4)	1.6 (8)	47	10	
SV4643NT (R)	53.3	0.6 (4)	8.5 (27)	43.7 (64)	0.6 (1)	2.5 (5)	56	40	
Tucannon	51.6	0.2 (2)	6.7 (20)	42.4 (71)	2.4 (2)	1.6 (5)	52	10	
XP07716000	45.4	0.5 (6)	5.3 (19)	36.6 (66)	3.1 (4)	2.5 (6)	46	0	
AVERAGES	45.9	0.4 (4)	6.3 (22)	36.8 (67)	2.4 (3)	1.4 (5)	47		

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

² The usable yield is the cumulative yield (by weight) of all bulb sizes in tons per acre and does not include culls.

³ 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.

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

⁵ The percentage of the tops estimated to have fallen as of August 8, shown as averages from three replicate plots.

Onion Cultivar Trial Overview:

The onion cultivar trial was planted on March 29, 2022, 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 Grigg Farms and was located southeast of Quincy, WA. Tops down (maturity) were evaluated for each plot on August 8. The onions were lifted on September 1. A 5-ft section of each plot was topped on September 14 and hand-harvested on September 15.

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
Enza Zaden USA, Inc., 7 Harris Place, Salinas, CA
Hazera USA, 3155 SW 10th Street, Suite 6L, Dearfield 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: Grigg Farms

TECHNICAL ASSISTANCE: Jennifer Darner, *WSU Extension*

PLANTING: Jim Christopherson, *Bejo Seeds* and Donavin Buck, *Seedway*

HARVEST: Bob Mittelstadt and Jesus Olascon, *Clearwater Supply*; Donavin Buck, *Seedway*; Jennifer Darner, Carol Hernandez, Isidro Garcia, Maddie Spets, Ashley Spradling, Alfredo Torres, *WSU Extension*

If you have questions or comments:

Tim Waters
WSU Franklin & Benton Co. Extension
404 W. Clark Ave.
Pasco, WA 99301
509-545-3511
twaters@wsu.edu

Carrie Wohleb
WSU Grant & Adams Co. Extension
1525 E. Wheeler Rd.
Moses Lake, WA 98837
509-707-3510
cwohleb@wsu.edu