

2014 COLUMBIA BASIN ONION CULTIVAR DEMONSTRATION RESULTS¹

Seed Company & Cultivar	Usable ² Yield T/A	Bulb Size and Defects ³ Yield by weight and (% of total bulb count)					Culls T/A (%)	Tops Down ⁴ %	Bolted ⁴ #
		Pre-pack (<2.25") T/A (%)	Medium (2.25-3") T/A (%)	Jumbo (3-4") T/A (%)	Colossal (>4") T/A (%)				
American Takii									
Centerstone	46.4	0.3 (3)	5.3 (19)	38.6 (68)	2.2 (3)	2.4 (7)	92	0	
Frontier	43.6	0.0 (1)	14.6 (46)	29.0 (53)	0.0 (0)	0.0 (0)	98	0	
Grand Perfection	52.9	0.0 (0)	5.9 (18)	44.4 (74)	2.7 (3)	2.5 (4)	75	6	
Highlander	42.4	0.1 (2)	4.1 (15)	36.7 (75)	1.6 (2)	1.5 (6)	100	0	
Milestone	37.0	0.0 (0)	4.9 (21)	31.0 (68)	1.1 (2)	2.9 (9)	93	0	
Trailblazer	46.2	0.1 (2)	8.2 (26)	37.9 (70)	0.0 (0)	0.7 (2)	100	0	
Trekker	42.2	0.1 (1)	8.0 (28)	34.1 (70)	0.0 (0)	0.6 (1)	93	3	
Bejo Seeds									
Calibra	47.2	0.1 (2)	10.9 (33)	36.2 (63)	0.0 (0)	1.1 (2)	92	1	
Crockett	48.4	0.1 (2)	14.2 (40)	34.1 (57)	0.0 (0)	0.6 (1)	87	2	
Delgado	49.8	0.1 (1)	9.2 (27)	38.9 (68)	1.6 (2)	1.2 (2)	88	1	
Legend	47.1	0.2 (2)	8.5 (27)	37.9 (70)	0.5 (1)	0.1 (1)	88	0	
Red Bull (R)	42.3	0.4 (3)	12.3 (37)	29.6 (56)	0.0 (0)	1.9 (5)	92	1	
Redwing (R)	46.7	0.8 (6)	12.1 (33)	33.7 (59)	0.0 (0)	0.5 (1)	90	0	
Sedona	55.0	0.2 (1)	3.5 (11)	46.7 (78)	4.6 (5)	1.6 (4)	87	10	
Talon	45.8	0.2 (2)	7.9 (26)	37.2 (69)	0.5 (1)	0.5 (1)	95	1	
Crookham Co.									
Brundage (W)	35.2	0.2 (2)	7.2 (30)	27.2 (64)	0.6 (1)	1.6 (3)	88	2	
Esteem	46.2	0.2 (3)	7.3 (21)	38.7 (69)	0.0 (0)	2.8 (8)	87	1	
Morpheus	53.6	1.2 (5)	5.0 (16)	39.7 (68)	7.6 (8)	0.8 (3)	83	3	
OLYX-08-640	40.8	0.3 (4)	12.3 (39)	27.7 (53)	0.5 (1)	1.5 (4)	95	0	
Oracle	40.8	0.3 (3)	6.2 (23)	33.1 (69)	1.2 (2)	1.4 (4)	67	0	
Pontiac	32.7	0.3 (4)	11.1 (37)	20.2 (41)	1.0 (1)	3.9 (17)	92	1	
Purple Haze (R)	41.1	0.2 (3)	11.8 (39)	29.1 (57)	0.0 (0)	0.2 (1)	80	1	
Scorpion	39.4	0.6 (6)	16.3 (48)	22.4 (42)	0.0 (0)	1.0 (4)	93	2	
Scout	59.0	0.2 (2)	4.7 (14)	43.0 (67)	11.2 (11)	3.0 (6)	90	6	
Trigger	37.7	0.5 (5)	8.4 (31)	28.9 (60)	0.0 (0)	1.2 (4)	80	1	
Hazera Seeds									
Cruiser	45.1	0.3 (3)	11.8 (35)	33.0 (59)	0.0 (0)	1.4 (3)	93	0	
Frontino*	17.5	0.2 (6)	0.0 (0)	6.7 (40)	10.6 (43)	1.9 (11)	0	0	
Maverick	54.7	0.1 (1)	6.1 (19)	43.2 (70)	5.4 (6)	2.8 (5)	67	13	

Seed Company & Cultivar	Usable ² Yield T/A	Bulb Size and Defects ³ Yield by weight and (% of total bulb count)					Culls T/A (%)	Tops Down ⁴ %	Bolted ⁴ #
		Pre-pack (<2.25") T/A (%)	Medium (2.25-3") T/A (%)	Jumbo (3-4") T/A (%)	Colossal (>4") T/A (%)				
Nippon Norin									
NO-116	43.9	0.0 (1)	4.8 (17)	37.7 (76)	1.4 (2)	1.7 (4)	97	1	
Nunhems USA									
Anillo	55.6	0.2 (2)	7.1 (21)	45.0 (71)	3.3 (4)	1.0 (2)	92	4	
Arcero	51.1	0.2 (3)	6.8 (21)	41.3 (70)	2.8 (2)	2.5 (5)	90	3	
Campero	52.1	0.1 (1)	7.3 (25)	43.1 (72)	1.6 (2)	0.2 (1)	88	6	
Cometa (W)	51.9	0.0 (0)	6.7 (20)	44.1 (72)	1.1 (1)	3.8 (7)	83	17	
Countach (R)	36.2	0.1 (1)	7.0 (29)	28.7 (61)	0.4 (1)	3.2 (9)	73	1	
Joaquin	53.0	0.0 (1)	8.3 (23)	42.3 (73)	2.4 (2)	0.0 (0)	72	12	
Marenge (R)	32.7	0.0 (1)	6.7 (28)	25.4 (56)	0.6 (1)	5.5 (15)	92	0	
Montero	59.0	0.2 (2)	3.1 (10)	52.3 (81)	3.4 (3)	2.2 (4)	95	8	
NUN8003ON (W)	49.6	0.5 (4)	7.6 (26)	40.3 (67)	1.2 (1)	1.2 (3)	88	0	
Oloroso									
NUN7202ON	47.6	0.1 (2)	9.7 (29)	37.9 (66)	0.0 (0)	1.3 (3)	88	1	
Pandero	49.4	0.1 (1)	7.2 (22)	42.2 (73)	0.0 (0)	2.7 (5)	82	10	
Utrero	49.7	0.1 (1)	6.0 (19)	43.1 (76)	0.6 (1)	1.4 (3)	75	8	
Valero	55.2	0.1 (1)	6.9 (21)	47.7 (78)	0.5 (1)	0.0 (0)	92	4	
Vaquero	52.0	0.0 (0)	4.5 (16)	46.5 (79)	1.0 (1)	1.8 (4)	95	1	
Sakata Seed									
Ovation	45.4	0.0 (0)	1.2 (7)	25.3 (56)	18.8 (29)	3.3 (8)	90	0	
Spanish Medallion*	24.2	0.0 (0)	0.2 (3)	2.9 (15)	21.1 (70)	2.1 (12)	63	0	
Seminis									
16000	53.8	0.1 (1)	5.0 (16)	45.9 (78)	2.8 (2)	1.2 (3)	73	6	
Belmar	49.6	0.5 (3)	10.6 (30)	37.3 (63)	1.2 (1)	1.8 (3)	78	4	
Elbrus	47.2	0.5 (5)	9.1 (27)	35.5 (61)	2.2 (1)	3.0 (6)	92	2	
SV4058100 (W)	49.4	0.2 (2)	10.5 (29)	37.1 (60)	1.7 (2)	3.0 (7)	92	7	
SV4643NT	48.4	0.0 (1)	4.3 (16)	39.0 (74)	5.0 (7)	1.2 (2)	95	0	
SV6646NW	50.3	0.8 (6)	6.0 (19)	40.2 (68)	3.3 (4)	2.1 (3)	83	1	
SV6672NW	61.3	0.0 (1)	6.2 (17)	53.9 (79)	1.2 (1)	1.3 (2)	85	9	
Swale	52.4	0.5 (4)	5.9 (18)	45.4 (75)	0.5 (1)	1.3 (3)	92	6	
AVERAGES	45.5	0.2 (2)	7.3 (23)	35.5 (64)	2.4 (4)	1.7 (4)	91	3	

¹ All data presented in the table are the average of three replicate plots.

² The usable yield is the cumulative yield of all bulb size categories 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 split bulbs, severely split skins, rotten bulbs, and bulbs with seed stalks.

⁴ The percentage of the tops estimated to have fallen and the number of plants that had bolted as of Aug. 18, 2014. Plots indicated with an * had poor seed germination and stand.

Onion Cultivar Trial Overview:

The onion cultivar trial was planted on March 24, 2014 with a Stanhay belt 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 Carr Farms, and was located off of the Kahlotus Highway outside of Pasco, WA. The trial was lifted on September 8, and then 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
Bejo Seeds, Inc., 1972 Silver Spur Place, Oceano, CA 93445
Crookham Company, P.O. Box 520, Caldwell, ID 83606.
Hazera Seeds, 1200 N El Dorado Pl. #D440, Tucson, AZ 85715
Nippon Norin Seed Co., 3219 Mariner Lane, Longmont, CO 90503
Nunhems USA, 8850 59th Ave. NE, Brooks, OR 97305
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:

Wally Huppert, *Carr Farms*
Marcel Wanders, Deron Beck, and Jordan Carey, *Seminis Vegetable Seeds*
K.C. Crookham, *Scottseed*
Curtis Mokler, *Keithly-Williams Seeds*
Michael Navarrete, *Seminis Vegetable Seeds*
Ron Hull, *Osborne Seeds*
Jason Turner, *Logan Zenner*
Steve Graton, *Champion Seed*
Bob Mittelstadt and Nick Webb, *Clearwater Supply*
Lindsey du Toit and Barbara Holmes, *WSU-Mount Vernon*

If you have questions or comments:

Tim Waters
WSU Franklin & Benton Co. Extension
1016 N. 4th
Pasco, WA 99301
509-545-3511
twaters@wsu.edu

Carrie Wohleb
WSU Grant & Adams Co. Extension
P.O. Box 37
Ephrata, WA 98823
509-754-2011 ext. 4367
cwohleb@wsu.edu