

2015 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 %
		Pre-pack (<2.25") T/A (%)	Medium (2.25-3") T/A (%)	Jumbo (3-4") T/A (%)	Colossal (>4") T/A (%)			
American Takii								
Highlander	30.1	0.1 (3)	7.7 (34)	22.3 (60)	0.0 (0)	1.1 (4)	100	
Frontier	34.3	0.6 (6)	18.5 (59)	15.2 (34)	0.0 (0)	0.2 (1)	83	
Trailblazer	38.0	0.1 (1)	13.5 (28)	24.4 (67)	0.0 (0)	1.4 (5)	53	
Trekker	31.1	0.0 (0)	10.7 (41)	20.3 (56)	0.0 (0)	0.7 (4)	93	
Milestone	33.4	0.0 (0)	10.7 (39)	22.7 (54)	0.0 (0)	2.1 (7)	53	
Centerstone	31.5	0.0 (0)	10.1 (41)	21.4 (51)	0.0 (0)	2.9 (8)	70	
Grand Perfection	44.3	0.4 (3)	6.3 (21)	36.4 (70)	1.2 (1)	1.5 (5)	25	
Bejo Seeds								
Calibra	33.3	0.0 (0)	10.5 (37)	22.8 (52)	0.0 (0)	2.8 (11)	55	
Hamilton	39.6	0.3 (3)	7.2 (27)	32.0 (64)	0.0 (0)	2.0 (6)	13	
Sedona	35.8	0.2 (3)	4.2 (16)	31.4 (64)	0.0 (0)	5.3 (16)	10	
Legend	35.0	0.4 (4)	10.5 (35)	24.1 (51)	0.0 (0)	3.8 (10)	58	
Tamara	33.2	0.1 (1)	7.6 (28)	25.5 (67)	0.0 (0)	0.8 (4)	28	
Red Bull (R)	34.3	0.1 (1)	8.8 (28)	25.4 (63)	0.0 (0)	2.3 (7)	12	
Red Carpet (R)	32.5	0.5 (5)	12.1 (41)	19.9 (45)	0.0 (0)	2.5 (9)	13	
Ice Pearl (W)	39.3	0.1 (1)	15.3 (47)	23.9 (48)	0.0 (0)	1.8 (5)	57	
Antarctica (W)	36.2	0.3 (2)	4.9 (21)	30.3 (69)	0.7 (1)	2.8 (8)	8	
Crookham Co.								
Scout	50.1	0.1 (1)	5.7 (18)	43.2 (76)	1.1 (1)	2.0 (4)	93	
Oracle	47.3	0.0 (0)	6.7 (22)	40.6 (75)	0.0 (0)	1.1 (3)	20	
Morpheus	45.7	1.0 (7)	5.6 (18)	39.1 (67)	0.0 (0)	2.3 (8)	57	
Purple Haze (R)	29.3	0.4 (3)	14.6 (53)	14.3 (33)	0.0 (0)	2.8 (11)	50	
Red Beret (R)	27.0	0.2 (3)	13.3 (50)	13.5 (31)	0.0 (0)	4.2 (16)	42	
Brundage (W)	44.2	0.1 (1)	9.8 (30)	33.3 (63)	1.0 (1)	1.4 (5)	50	
White Cloud (W)	50.5	0.0 (0)	8.2 (26)	40.0 (69)	2.4 (2)	1.0 (2)	87	
OLYX08-640	36.5	0.6 (6)	11.8 (36)	24.2 (51)	0.0 (0)	1.6 (7)	95	
Hazera Seeds								
Cruiser	37.5	0.1 (1)	9.4 (31)	27.9 (56)	0.0 (0)	4.8 (12)	52	
Nippon Norin								
NO-114*	17.6	0.2 (5)	7.1 (49)	10.3 (46)	0.0 (0)	0.1 (1)	80	

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Nunhems USA							
Granero	47.8	0.1 (1)	2.4 (9)	40.3 (78)	5.0 (6)	1.9 (6)	60
Joaquin	41.6	0.2 (3)	7.5 (26)	33.9 (65)	0.0 (0)	2.4 (6)	10
Montero	46.1	0.2 (2)	5.4 (16)	40.5 (76)	0.0 (0)	1.9 (6)	95
Cometa (W)	36.9	0.2 (2)	9.5 (37)	27.2 (59)	0.0 (0)	0.4 (2)	52
Arcero	41.8	0.0 (1)	7.9 (27)	33.4 (70)	0.5 (1)	0.4 (2)	25
Vaquero	49.3	0.2 (1)	6.6 (22)	41.5 (75)	1.0 (1)	0.2 (1)	27
Anillo	39.2	0.1 (1)	7.3 (29)	31.8 (65)	0.0 (0)	1.5 (5)	28
Oloroso	37.0	0.1 (2)	7.2 (27)	29.7 (68)	0.0 (0)	0.9 (3)	13
Marenge (R)	34.7	0.1 (1)	6.7 (25)	27.9 (66)	0.0 (0)	2.5 (8)	55
Seminis Veg. Seeds							
16000	38.7	0.1 (1)	6.2 (23)	32.4 (64)	0.0 (0)	4.2 (12)	55
Swale	43.7	0.1 (2)	4.1 (16)	37.7 (77)	1.8 (2)	0.8 (4)	30
Belmar	40.1	0.1 (1)	10.8 (37)	29.2 (55)	0.0 (0)	1.6 (7)	28
Commendable	41.2	0.1 (1)	8.4 (28)	32.3 (65)	0.5 (1)	2.0 (6)	40
SV40158NU	40.0	0.2 (1)	6.7 (23)	31.5 (66)	1.7 (2)	3.2 (7)	23
SV4643NT (R)	37.3	0.2 (1)	8.9 (33)	28.2 (59)	0.0 (0)	2.3 (6)	95
SV6646NW	43.4	0.2 (2)	11.8 (35)	30.3 (53)	1.1 (1)	2.9 (9)	55
SV6672NW	53.0	0.3 (1)	9.1 (25)	42.0 (68)	1.6 (2)	1.0 (3)	73
AVERAGES	38.6	0.2 (2)	8.8 (31)	29.2 (61)	0.5 (1)	2.0 (6)	49

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 as of July 28, 2015.

* NO-114 plots had poor stand counts and yields because the pelletized seed was too large for the planter.

Onion Cultivar Trial Overview:

The onion cultivar trial was planted on April 3, 2015 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 Grigg and Sons Farm, and was located southeast of Quincy, WA. The field cultivar was Gunnison. The trial was lifted on August 21, and then a 5-ft section of each plot was topped and hand-harvested on August 31.

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

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Marcel Wanders and Deron Beck, *Seminis Vegetable Seeds*
Josh Carter and Patrick Ross, *Keithly-Williams Seeds*
Bob Middlestat and Nick Webb, *Clearwater Supply*
Lindsey du Toit, Mike Derie, and Barbara Holmes, *WSU-Mount Vernon*

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
509-754-2011 ext. 4313
cwohleb@wsu.edu