

2018 COLUMBIA BASIN ONION CULTIVAR STORAGE DEMONSTRATION RESULTS

Seed Company & Cultivar	Firmness ¹	Scale Retention ²	Shape Uniformity ³	Bacterial Rot (%)	Black Mold (%)	Fusarium Neck Rot (%)	Sprouts (%)	Bolters (%)	Single Centered Bulbs (%)
American Takii									
Centerstone	4.0	4.3	4.0	0.0%	0.0%	0.0%	3.3%	0.0%	40.0%
Frontier	4.0	4.0	4.3	6.0%	0.0%	0.0%	13.7%	0.8%	6.8%
Grand Perfection	3.0	4.0	4.0	13.3%	0.0%	2.5%	8.3%	3.3%	54.2%
Highlander	2.0	2.3	3.3	6.7%	0.0%	1.7%	17.5%	0.0%	5.8%
Milestone	3.7	4.7	4.7	2.5%	0.0%	0.0%	3.3%	1.7%	25.8%
Ridge Line	4.0	4.0	4.7	0.8%	0.0%	0.0%	5.8%	0.0%	17.5%
Traverse	4.0	4.0	4.3	3.3%	0.0%	0.0%	2.5%	2.5%	32.5%
Trekker	4.3	4.7	4.7	3.3%	0.0%	0.0%	6.7%	0.0%	6.7%
Bejo Seeds									
Calibra	4.0	4.3	3.7	0.8%	0.0%	0.0%	4.2%	1.7%	20.8%
Crockett	5.0	5.0	4.3	4.2%	0.0%	0.0%	0.8%	0.0%	66.7%
Hamilton	5.0	5.0	4.3	2.5%	0.0%	0.0%	3.3%	1.7%	76.7%
Legend	4.7	5.0	4.0	3.3%	0.0%	0.8%	2.5%	0.0%	30.8%
Mondella	4.3	4.0	4.0	8.3%	0.0%	0.0%	3.3%	0.0%	75.0%
Red Carpet (R)	4.0	4.0	4.0	4.2%	0.0%	0.0%	6.7%	0.0%	25.0%
Red Mountain (R)	3.0	3.7	3.7	4.2%	0.0%	4.2%	11.7%	0.0%	22.5%
Talon	4.7	4.3	4.7	0.8%	0.0%	0.0%	0.8%	0.0%	39.2%
Tamara	5.0	4.7	4.3	1.7%	0.0%	0.0%	5.8%	0.0%	21.7%
Crookham Co.									
Avalon	2.3	3.0	3.3	11.7%	0.0%	1.7%	9.2%	2.5%	49.2%
OLYX08-640	4.3	4.0	4.0	7.5%	0.0%	0.0%	5.8%	2.5%	80.8%
Oracle	3.0	4.3	3.3	6.7%	0.0%	0.8%	5.0%	10.0%	69.2%
Purple Haze (R)	3.3	3.3	3.0	3.3%	0.0%	0.0%	10.0%	3.3%	55.0%
Red Beret (R)	3.0	3.7	2.3	3.3%	0.0%	0.0%	7.5%	0.0%	25.0%
Scout	3.0	3.3	3.7	5.8%	0.0%	0.8%	0.8%	0.8%	53.3%
White Cap (W)	4.0	4.0	3.7	4.2%	0.0%	0.0%	3.3%	10.0%	85.0%
White Cloud (W)	3.3	3.0	3.0	11.7%	0.0%	0.0%	8.3%	2.5%	37.5%
Enza Zaden									
E61D.10106	2.0	2.3	3.3	29.8%	0.0%	2.9%	15.6%	0.0%	11.2%
E61L.10132	2.7	2.7	3.3	14.2%	0.8%	4.2%	6.7%	0.0%	48.3%
E61L.10242F1	4.0	4.3	4.0	5.0%	0.0%	2.5%	0.8%	11.7%	20.8%
E61L.10284	2.3	3.0	3.3	5.8%	0.0%	0.0%	3.3%	5.8%	35.0%

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Nunhems									
Airoso	4.3	4.0	4.3	2.5%	0.0%	0.0%	2.5%	0.8%	67.5%
Anillo	4.0	5.0	4.0	9.2%	0.0%	0.0%	3.3%	1.7%	86.7%
Arcero	4.0	5.0	5.0	10.8%	0.0%	0.0%	4.2%	0.8%	90.0%
Granero	4.3	5.0	4.7	6.7%	0.0%	0.0%	5.8%	1.7%	83.3%
Joaquin	3.3	4.7	3.7	10.8%	0.0%	0.8%	13.3%	6.7%	85.8%
Montero	2.7	4.0	3.7	13.3%	0.0%	0.0%	2.5%	2.5%	85.0%
Oloroso	4.0	5.0	4.3	2.5%	0.0%	0.0%	3.3%	0.0%	89.2%
Ranchero	3.0	4.0	4.0	6.7%	0.0%	0.0%	2.5%	0.8%	78.3%
Vaquero	3.7	4.3	4.7	5.8%	0.0%	0.0%	6.7%	0.8%	85.0%
Sakata Seed									
Aruba	3.0	3.7	3.0	0.8%	0.0%	0.0%	4.2%	7.5%	80.8%
Dulce Reina	2.7	3.7	3.3	3.3%	0.0%	0.0%	4.2%	8.3%	70.0%
Lasso	3.0	4.0	3.7	5.8%	0.0%	0.0%	8.3%	5.0%	68.3%
Ovation	3.0	3.0	3.3	8.3%	0.0%	0.0%	29.2%	0.0%	38.3%
Yosemite	3.0	3.7	3.7	12.5%	0.0%	0.0%	13.3%	0.8%	12.5%
Yukon	3.3	4.0	3.7	10.0%	0.0%	5.8%	8.3%	0.0%	47.5%
Seminis Veg. Seeds									
16000	3.0	3.7	3.3	9.2%	0.0%	0.0%	0.8%	10.8%	67.5%
Red Nugent (R)	2.0	3.3	3.0	10.0%	0.0%	0.0%	14.2%	0.0%	24.2%
SV4643NT (R)	2.3	2.7	3.0	6.7%	0.8%	0.0%	8.3%	1.7%	27.5%
SV6646NW	3.0	4.0	4.0	1.7%	0.0%	0.0%	3.3%	0.8%	84.2%
SV6672NW	3.7	4.0	4.0	2.5%	0.0%	0.0%	2.5%	8.3%	62.5%
Swale	3.7	4.7	4.7	1.7%	0.0%	0.0%	2.5%	0.0%	83.3%
Tucannon	4.3	5.0	4.3	5.0%	0.0%	9.2%	3.3%	0.8%	65.0%
SV4058NV (W)	3.7	4.3	4.0	10.0%	0.8%	0.0%	13.3%	7.5%	70.0%
Western Onion									
903-5X	3.7	2.7	2.7	0.0%	0.0%	0.0%	15.0%	0.0%	0.8%
RED-903-5X	4.0	3.3	3.0	2.5%	0.0%	0.0%	13.3%	0.0%	1.7%
AVERAGES	3.5	4.0	3.8	6.2%	0.0%	0.7%	6.8%	2.4%	50.3%

¹Firmness 1 to 5 scale

5 = Rock hard bulbs

1 = Soft bulbs

³Shape 1 to 5 scale

5 = Highly uniform shape

1 = Extremely variable

²Scale Retention 1 to 5 scale

5 = Complete scales, no cracks/shrink

4 = Complete scales, some cracks

3 = Marketable, partial balding

2 = 50-75% incomplete skins

1 = Unacceptable scale retention, non-marketable

Storage Evaluation Overview:

Bulbs were harvested on September 19, 2018 after field curing. Forty bulbs were collected and bagged from each plot. Bulbs were held in bins in a commercial storage facility until evaluation on February 15, 2019. The values reported in the table are the average results from three replicates.

Participating Companies:

American Takii, Inc., 301 Natividad Rd., Salinas, CA 93906
Bayer/Nunhems USA, 8850 59th Ave. NE, Brooks, OR 97305
Bejo Seeds, Inc., 1972 Silver Spur Place, Oceano, CA 93445
Crookham Company, P.O. Box 520, Caldwell, ID 83606.
Hazera Seeds, Inc., 6601 Lyons Road, Suite H-10, Coconut Creek, FL 33073
Enza Zaden USA, Inc., 7 Harris Place, Salinas, CA 93901
Sakata Seed America, Inc., New Mexico Station, P.O. Drawer F, Messilla, NM 88046
Seminis Vegetable Seeds, 32537 Apple Valley Rd, Parma, ID 83660

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Jimmy Graton, Gowan Seed	Steve Graton, Gowan Seed
Kevin Kudsk, L&L Farms	Jim Christopherson, Bejo Seeds
Josh Carter, Keithly Williams	Jason Turner, Logan Zenner
Michael Navarrete, Seminis	Travis Whitney, BASF
Jose F. Arias, Hazera Seeds	Ben de Nijs, Hazera Seeds
Calvin Lietzow, Hazera Seeds	Jennifer Darner, WSU
Don Kinion, WSU	

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If you have questions or comments:

Tim Waters
WSU Franklin & Benton Co. Extension
404 W. Clark St.
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 x.4313
cwohleb@wsu.edu

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