

2019 COLUMBIA BASIN ONION CULTIVAR STORAGE DEMONSTRATION RESULTS

Seed Company & Cultivar	Firmness <sup>1</sup>	Scale Retention <sup>2</sup>	Shape Uniformity <sup>3</sup>	Sprouts (%)	Bacterial Rot (%)	Neck Rot (%)	Black Mold (%)	Internal Dry Scale (%)	Single Centered Bulbs (%)
<b>American Takii</b>									
Centerstone	4.0	3.0	3.3	0	2.6	0	0	0	29.5
Frontier	4.0	3.0	3.7	0	0	0	0	0	3.9
Grand Perfection	3.0	3.7	3.0	0	0	0	0	0	42.7
Highlander	2.0	1.7	2.0	0	0.7	0	0	0	3.3
Milestone	4.0	3.3	3.3	0	3.9	0	0	0	29.9
Ridgeline	3.7	3.0	2.7	0	0	0	0	1.3	30.7
Traverse	4.0	3.0	4.3	0	3.0	0	0	0	37.5
Trekker	3.7	3.7	4.7	0	0.8	0	0	0	41.3
<b>Bejo Seeds</b>									
Bridewhite	3.0	3.0	3.7	0	4.7	0.7	0.7	0	37.9
Crockett	5.0	5.0	4.3	0	1.4	0	0	0	56.8
Gunnison	4.7	4.0	4.0	0	0	0	0	0	47.2
Hamilton	5.0	5.0	4.3	0	0.7	0	0	0	64.8
Legend	4.7	4.7	4.3	0	0	0	0	0	21.7
Red Mountain	3.7	4.0	3.3	0	0.7	0	0	0	41.6
Redwing	4.0	4.7	3.7	0	0.7	0	0	0	39.1
Tamara	4.3	5.0	4.0	0	0	0	0	0	31.5
<b>Crookham Co.</b>									
Caldwell	3.7	4.3	3.7	0	2.4	0	0	0	94.5
Caliber	3.7	3.7	3.7	0	1.0	0	0	0	86.7
Oracle	2.7	3.7	3.7	0	7.8	0	0	0	90.3
Purple Haze	3.7	3.3	2.7	0	0.8	0	0	0	65.1
Scorpion	4.3	4.3	3.3	0	0	0	0	0	77.4
Scout	3.0	3.0	3.7	0	6.7	0	0	0	41.3
Trident	4.3	4.3	3.3	0	3.4	0	0	0	88.0
White Cap	3.3	3.7	3.3	0	1.3	0	2.0	0	79.9
<b>Enza Zaden</b>									
Elyse	2.3	1.3	2.7	0	9.9	0	0	0	18.0
Monastrell	2.3	1.7	2.3	0	6.2	0	0	0	26.9

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<b>Nunhems-BASF</b>									
Airoso	5.0	4.3	4.7	0	0	0	0	0	72.7
Arcero	3.7	4.3	4.0	0	2.2	0	0	0	76.2
Granero	4.3	4.3	4.7	0	3.6	0	0	0.7	64.4
Joaquin	4.3	4.7	4.3	0	2.4	0	0	0	81.8
Marengo	3.0	2.7	3.3	0	9.6	0	0	0	44.3
Montero	3.3	3.7	3.3	0	1.3	0	1.3	0	71.3
Oloroso	4.3	5.0	4.0	0	2.7	0	0	0	93.2
Ranchero	3.7	4.7	3.3	0	2.2	0	0	0	68.8
Vaquero	3.7	4.3	3.3	0	1.4	0	0	0	77.9
<b>Sakata Seed</b>									
Aruba	3.3	3.3	3.3	0	0	0	0	0	81.4
Dulce Reina	3.0	3.0	3.3	0	2.7	0	0	0	66.5
Ovation	2.3	2.3	2.7	0	0	0	0	0	46.9
Spanish Medallion	3.0	2.0	3.0	0	3.1	0	0	0	43.4
Yosemite	3.0	2.7	2.7	0	2.3	0.9	0	0	19.2
Yukon	3.0	3.3	3.0	0	1.6	0	0	0	42.5
<b>Seminis Veg. Seeds</b>									
16000	3.0	3.7	3.7	0	1.5	0.7	0	0	68.8
Red Nugent	2.3	2.7	2.0	0	16.0	0	0	0	22.4
SV4058NV	3.0	3.7	3.3	0	9.9	0.7	0.7	0	67.9
SV4643NT	2.7	3.3	2.3	0	8.6	0	0	0	27.4
SV6672NW	3.7	3.7	3.7	0	3.6	0	0	0	64.6
Tucannon	4.3	4.3	4.3	0	5.3	0	0	0	74.7
<b>AVERAGES</b>	<b>3.6</b>	<b>3.6</b>	<b>3.5</b>	<b>0.0%</b>	<b>2.9%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>53.3%</b>

<sup>1</sup>**Firmness** 1 to 5 scale

5 = Rock hard bulbs

1 = Soft bulbs

<sup>3</sup>**Shape** 1 to 5 scale

5 = Highly uniform shape

1 = Extremely variable

<sup>2</sup>**Scale 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 13, 2019 after field curing. Fifty bulbs were collected and bagged from each plot.

Bulbs were held in bins in a commercial storage facility until evaluation on February 13, 2020. The values reported in the table are the average results from three replicates.

**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.  
Enza Zaden USA, Inc., 7 Harris Place, Salinas, CA 93901  
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

**Thanks to everyone who participated in the storage evaluation:**

Jimmy Graton, Gowan Seed Company	Casey Crookham, Gowan Seed Company
Cory Marshburn, Seedway	Jim Christopherson, Bejo Seeds
Kevin Kudsk, L&L Farms	Hayden Burks, L&L Farms
Patrick Ross, Keithly Williams	Jason Turner, Logan Zenner
Travis Whitney, BASF-Nunhems	Don Kinion, WSU
Jennifer Darner, WSU	

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**If you have questions or comments:**

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