

2020 COLUMBIA BASIN ONION CULTIVAR STORAGE DEMONSTRATION RESULTS

Seed Company & Cultivar	Firmness <sup>1</sup> (1-5)	Scale Retention <sup>2</sup> (1-5)	Shape Uniformity <sup>3</sup> (1-5)	Bacterial Rot (%)	Neck Rot (%)	Single Centered Bulbs (%)
<b>American Takii</b>						
Frontier	4	3	3	2.4%	0.0%	22.0%
Grand Perfection	4	4	3	2.5%	0.0%	85.0%
Highlander	2	2	3	0.0%	0.0%	9.3%
Milestone	4	2	4	2.0%	0.0%	44.9%
Outlander	3	2	3	1.9%	0.0%	13.0%
Ridgeline	4	3	4	0.0%	0.0%	35.7%
Traverse	4	3	4	0.0%	0.0%	90.2%
Trekker	4	4	3	0.0%	0.0%	19.1%
<b>BASF Nunhems</b>						
Airoso	4	4	3	0.0%	0.0%	94.6%
Anillo	4	4	3	2.6%	0.0%	133.3%
Arcero	4	4	4	2.2%	0.0%	91.3%
Cometa (W)	4	3	3	1.9%	0.0%	96.3%
Granero	5	3	4	4.4%	0.0%	75.6%
Joaquin	4	4	4	0.0%	0.0%	95.1%
Marengo (R)	3	3	4	3.6%	0.0%	47.3%
Montero	3	3	3	0.0%	7.9%	81.6%
Oloroso	4	4	3	0.0%	0.0%	100.0%
Ranchero	3	3	4	2.4%	0.0%	73.8%
Rhea (W)	3	2	3	2.4%	0.0%	92.9%
Vaquero	4	3	3	2.0%	0.0%	89.8%
<b>Bejo Seeds</b>						
Dawson	5	4	3	0.0%	0.0%	84.8%
Hamilton	5	4	3	4.7%	0.0%	88.4%
Legend	3	4	3	4.7%	0.0%	51.2%
Mondella	5	4	4	0.0%	0.0%	82.4%
Red Carpet (R)	4	4	3	1.9%	0.0%	55.8%
Red Mountain (R)	4	4	4	0.0%	0.0%	100.0%
Red Wing (R)	5	4	3	0.0%	0.0%	51.0%
Tamara	5	4	3	0.0%	0.0%	46.0%

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<b>Crookham Co.</b>						
Avalon	3	2	4	0.0%	0.0%	50.0%
Brundage (W)	3	3	3	0.0%	0.0%	94.7%
Caldwell	4	4	3	0.0%	0.0%	98.0%
Caliber	3	3	3	0.0%	2.4%	92.7%
Purple Haze (R)	4	2	2	0.0%	0.0%	79.1%
Red Beret (R)	4	4	2	0.0%	2.3%	47.7%
Scout	3	2	4	0.0%	0.0%	71.4%
Trident	4	3	3	0.0%	0.0%	90.4%
White Cap (W)	3	3	3	5.9%	3.9%	84.3%
White Cloud (W)	3	2	3	3.9%	7.8%	66.7%
<b>Enza Zaden</b>						
Barolo (R)	4	3	3	2.6%	0.0%	46.2%
Elsye	2	2	3	0.0%	0.0%	56.9%
<b>Hazera Seeds</b>						
37-118 F1	4	3	3	0.0%	0.0%	43.8%
37-120 F1	4	3	3	2.2%	0.0%	76.1%
37-121 F1	4	4	3	5.6%	0.0%	77.8%
<b>Sakata Seed</b>						
Ovation	3	3	3	0.0%	0.0%	65.9%
Spanish Medallion	2	2	3	0.0%	0.0%	35.6%
Yosemite	4	3	4	0.0%	0.0%	18.9%
Yukon	4	4	3	1.9%	0.0%	26.9%
<b>Seminis Veg Seeds</b>						
Crusher	4	4	4	0.0%	0.0%	98.0%
SV6672NW	4	3	3	0.0%	0.0%	80.0%
Tucannon	4	3	3	0.0%	0.0%	62.5%
XP07716000	3	3	3	0.0%	0.0%	82.9%
<b>AVERAGES</b>	<b>3.7</b>	<b>3.2</b>	<b>3.2</b>	<b>1.2%</b>	<b>0.5%</b>	<b>68.6%</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 17, 2020 after field curing. Approximately 50 bulbs were collected and bagged from each plot. Bulbs were held in bins in a commercial storage facility until evaluation on February 12, 2021. The values reported in the table were only taken from one of the three replicates.

**Participating Companies:**

American Takii, Inc., 301 Natividad Rd., Salinas, CA 93906; (831) 443-4901

BASF Nunhems USA, 1200 Anderson Corner Rd., Parma, ID 83660; (208) 674-4000

Bejo Seeds, Inc., 1972 Silver Spur Place, Oceano, CA 93445; (805) 473-2199

Crookham Company, 301 W Warehouse St., Caldwell, ID 83605; (208) 459-7451

Enza Zaden USA, Inc., 7 Harris Place, Salinas, CA 93901; (831) 754-2300

Hazera USA, 3155 SW 10th Street, Suite 6L, Dearfield Beach, FL 33442 ; (954) 429-9445

Sakata Seed America, Inc., 18095 Serene Drive, Morgan Hill, CA 95037; (408) 778-7758

Seminis Vegetable Seeds, 800 North Lindbergh Blvd, St. Louis, MO 63167; (866) 334-1056

**Special thanks to Olsen Onion for hosting the 2020 WSU Onion Cultivar Trial.****If you have questions or comments:**

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