

2024 COLUMBIA BASIN ONION CULTIVAR STORAGE DEMONSTRATION RESULTS

Seed Company & Cultivar	Firmness ¹ (1-5)	Scale Retention ² (1-5)	Shape Uniformity ³ (1-5)	Neck Rot (%)	Black Mold (%)	Bacterial Rot (%)	Fusarium Basal Rot (%)	Single Centered Bulbs (%)	Sprouts (%)
American Takii									
Lodestar	5.0	4.0	5.0	0.0	0.0	0.7	5.6	22.6	0.0
Switchback	4.3	3.7	4.3	0.0	0.0	0.0	1.3	30.7	0.0
Traverse	3.7	3.3	4.0	0.0	0.0	1.3	1.3	55.7	0.0
Frontier	4.0	3.3	4.0	0.0	0.0	3.8	6.6	18.4	0.0
Outlander	2.7	3.0	2.7	0.0	0.0	2.7	2.7	2.7	0.0
Ridgeline	4.7	3.3	3.7	0.0	0.0	1.5	3.8	38.3	0.0
Highlander	2.3	1.7	3.3	0.0	0.0	0.7	0.0	2.0	0.0
Bejo Seeds									
Red Mountain (R)	4.0	4.0	3.3	0.0	0.0	1.6	2.8	58.0	0.0
Crockett	5.0	4.7	3.7	0.0	0.0	0.7	3.5	51.7	0.0
Redwing (R)	4.0	4.0	3.7	0.0	0.0	2.7	0.7	39.3	0.0
Legend	5.0	4.7	4.0	0.0	0.0	0.0	0.0	38.7	0.0
Red Carpet (R)	4.0	4.0	3.7	0.0	0.0	1.6	3.3	58.7	0.0
Yakama	4.3	3.7	3.7	0.0	0.0	0.0	0.0	80.3	0.0
Red Eagle (R)	4.0	4.0	3.3	0.0	0.0	0.0	3.3	52.7	0.0
EXP 375	5.0	4.7	4.0	0.0	0.0	0.0	0.7	54.0	0.0
Crookham Company									
Delightful	3.0	1.7	3.0	0.0	0.0	4.5	1.7	26.3	0.0
Scout	3.7	3.3	3.3	0.0	0.0	4.5	1.5	60.9	0.0
White Cloud (W)	3.3	2.7	3.7	0.0	1.3	0.0	0.0	54.0	0.0
Caliber	3.7	3.3	3.3	0.0	0.0	0.7	0.0	76.3	0.0
Epic	4.3	3.7	3.3	0.7	0.0	2.8	2.7	85.6	0.0
Caldwell	4.0	3.3	3.0	0.0	0.0	0.7	0.7	82.0	0.0
Brundage (W)	3.7	3.3	3.7	0.0	0.0	4.6	1.5	78.2	0.0
White Cap (W)	3.7	3.7	3.3	0.0	0.0	1.3	1.4	75.0	0.0
Defender	4.3	4.3	3.7	0.0	0.0	0.0	0.7	73.3	0.0
Trident	4.3	4.0	2.3	0.0	0.0	0.7	0.0	80.0	0.0

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Hazera Seeds									
Thunderstone	4.7	4.3	3.3	0.0	0.0	0.0	0.0	74.7	0.0
Copperstone	4.3	4.0	3.7	0.0	0.0	0.0	0.0	50.5	0.0
37-128 F1	4.3	4.0	2.0	0.0	0.0	3.3	2.7	23.9	0.0
Nunhems - BASF									
Airoso	5.0	4.3	4.0	0.0	0.0	0.0	0.7	81.1	0.0
Anillo	4.7	4.0	3.7	0.0	0.0	0.0	2.7	78.5	0.0
Arcero	4.0	3.7	3.7	0.0	0.0	4.1	2.1	83.8	0.0
Campero	4.7	4.7	3.7	0.0	0.0	0.0	0.0	70.7	0.0
Cometa (W)	4.0	3.7	3.7	0.7	0.0	1.3	0.0	83.3	0.0
Glorioso	4.3	3.7	3.7	0.7	0.0	6.0	2.7	68.7	0.0
Granero	5.0	5.0	4.0	0.0	0.0	0.0	2.7	81.8	0.0
Joaquin	4.0	4.0	3.7	0.0	0.0	1.3	1.3	73.3	0.0
Marengo (R)	2.3	3.3	3.0	0.0	0.0	12.1	20.1	27.7	0.0
Montero	3.0	3.0	3.0	0.0	0.0	0.0	2.0	76.0	0.0
Oloroso	4.0	5.0	4.3	0.0	0.0	2.3	4.3	66.4	0.0
Rhea (W)	3.7	3.3	3.7	0.0	0.0	1.3	2.0	88.7	0.0
Vaquero	4.0	3.3	3.3	0.0	0.0	0.0	2.0	87.3	0.0
NUN 6005	2.7	2.0	3.0	0.0	0.0	1.3	2.7	6.7	0.0
Seminis – Bayer									
Hatchet	4.7	3.3	4.0	0.0	0.0	0.7	0.7	88.6	0.0
Almanzoro	4.7	4.0	3.3	0.0	0.0	0.0	2.7	61.3	0.0
Crusher	4.3	4.0	4.0	0.0	0.0	0.0	1.3	88.6	0.0
Tucannon	4.7	4.3	4.0	0.0	0.0	0.0	1.3	87.3	0.0
AVERAGES	4.1	3.7	3.6	0.0	0.0	1.6	2.2	59.5	0.0

Firmness 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 24, 2024 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 7, 2025.

Participating Companies:

American Takii, Inc., 301 Natividad Rd., Salinas, CA

Bejo Seeds, Inc., 1972 Silver Spur Place, Oceano, CA

Crookham Company, 301 W Warehouse St., Caldwell, ID

Hazera USA, 3155 SW 10th Street, Suite 6L, Dearfield Beach, FL

Nunhems USA - BASF, 1200 Anderson Corner Rd., Parma, ID

Seminis Vegetable Seeds - Bayer, 800 North Lindbergh Blvd, St. Louis, MO

Thanks to everyone who participated in the storage evaluation:

Javier Ramos, Nunhems BASF

Kevin Moe, Nunhems BASF

Donavin Buck, Seedway

Kenny Nakamura, Seedway

Steven Gillen, Gowan

Zack Frederick, Seminis Bayer

Samantha Moradel, Keithly Williams

Levi Allen, WSU

Maddie Spets, WSU

Ashley Spradling, WSU

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If you have questions or comments:

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