

2016 COLUMBIA BASIN ONION CULTIVAR STORAGE DEMONSTRATION RESULTS

Seed Company & Cultivar	Firmness ¹	Scale Retention ²	Shape Uniformity ³	Bacterial Rot (%)	Black Mold (%)	Neck Rot (%)	Internal Dry Scale (%)	Sprouts (%)	Single Centered Bulbs (%)
American Takii									
Centerstone	3.8	3.8	3.8	0.0	0.0	2.1	0.0	0.0	31.2
Frontier	3.5	3.5	3.8	0.0	0.0	3.3	0.0	6.0	39.3
Grand Perfection	3.5	3.5	3.5	0.0	0.0	2.6	0.0	2.6	31.6
Highlander	2.3	2.0	3.0	0.0	0.0	4.4	0.0	7.4	14.6
Milestone	3.5	4.2	3.8	0.0	0.0	3.7	0.0	2.3	27.8
Ridge Line	3.8	3.8	4.0	0.0	0.0	1.3	0.0	0.7	41.7
Trailblazer	4.0	4.0	3.0	0.0	0.0	2.2	0.0	0.0	10.9
Traverse	3.3	3.3	3.3	0.0	0.0	3.0	0.0	0.7	30.5
Trekker	4.0	3.8	4.0	0.0	0.0	0.0	0.0	3.5	12.2
Bejo Seeds									
Antarctica (W)	2.5	3.5	3.5	0.0	0.0	26.0	0.0	0.0	24.0
Calibra	4.2	4.3	3.8	0.0	0.0	2.3	1.5	4.8	23.7
Crockett	3.3	3.5	4.0	0.0	0.0	0.0	0.0	1.1	50.0
Delgado	3.7	4.0	3.5	0.0	0.0	0.8	0.8	0.0	19.1
Hamilton	3.7	4.0	3.2	0.8	0.0	1.6	0.0	1.6	54.9
Ice Pearl (W)	3.5	3.5	3.7	0.0	0.0	4.0	0.0	9.7	16.5
Legend	3.7	4.5	3.8	0.0	0.0	0.0	0.0	0.0	21.0
Red Carpet (R)	3.5	3.5	3.2	0.0	0.0	1.3	0.0	2.2	39.6
Talon	4.0	4.0	3.5	0.0	0.0	0.0	0.0	0.0	51.7
Tamara	3.8	4.0	3.2	0.0	0.0	2.3	0.0	5.9	53.4
Crookham Co.									
Advantage	3.3	3.8	3.5	0.0	0.0	6.4	0.0	10.0	45.7
Brundage (W)	3.2	3.2	3.3	1.7	0.0	30.5	0.0	0.0	66.2
Esteem	3.0	3.3	3.3	1.3	0.0	7.7	0.0	0.0	57.3
Morpheus	2.8	3.8	2.8	0.0	0.0	4.2	2.1	4.2	77.3
Oracle	3.5	4.2	3.5	0.7	0.0	0.7	0.0	1.8	82.1
Pontiac	3.3	3.8	2.8	0.0	0.0	1.7	0.0	1.3	55.6
Purple Haze(R)	3.3	3.3	2.7	0.7	0.0	0.7	0.0	4.5	56.0
Red Beret (R)	3.3	3.5	3.0	0.0	0.0	5.3	0.0	3.0	53.7
Scout	2.8	2.8	3.0	0.0	0.0	5.3	0.0	1.3	39.9
White Cloud (W)	2.5	2.8	3.3	0.0	2.2	24.1	0.0	3.0	32.5

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Hazera									
Cruiser	4.0	4.2	3.8	0.0	0.0	0.7	0.0	0.0	44.0
37-86	3.2	3.8	3.2	0.0	0.0	3.7	0.0	3.5	60.2
37-93	2.8	3.3	3.3	0.0	0.0	6.3	0.0	11.0	60.6
Nunhems USA									
Anillo	3.2	3.8	3.2	0.7	0.0	3.5	0.0	2.8	69.7
Arcero	3.2	4.0	3.8	1.7	0.0	0.0	1.0	1.3	73.3
Granero	3.2	3.8	3.3	2.5	0.9	3.4	0.0	2.2	52.3
Joaquin	3.3	4.0	3.5	0.0	0.0	4.0	0.0	6.1	66.3
Marengo (R)	3.0	3.5	3.5	0.0	0.0	3.7	0.0	7.3	41.5
Montero	3.0	3.2	3.7	1.4	0.0	0.0	0.8	0.0	54.6
Oloroso	3.3	3.8	3.5	0.0	0.0	6.6	0.0	2.3	78.2
Ranchero	3.3	4.2	3.3	0.0	0.0	2.0	0.0	7.5	70.7
Vaquero	2.8	3.5	3.2	2.0	0.0	11.7	0.0	1.3	47.1
Sakata Seed									
Dulce Reina	3.2	3.0	3.3	0.8	0.0	5.2	0.0	15.5	49.3
Great Western	2.8	2.5	2.8	0.0	0.0	9.8	1.6	10.0	28.1
Lasso	2.0	2.5	2.5	2.8	1.4	6.7	0.0	17.4	53.6
Spanish Medallion	3.2	3.5	3.2	0.8	0.0	4.8	0.0	4.7	34.8
Yukon	3.2	3.3	3.5	0.0	0.0	9.9	0.0	2.8	46.1
Seminis Veg. Seeds									
Belmar	2.8	3.0	3.2	0.0	0.0	1.6	0.7	7.2	59.6
Commendable	3.5	3.5	3.5	0.0	0.0	1.3	0.0	2.0	58.7
SV4643NT (R)	3.2	2.8	2.7	0.0	0.0	1.5	0.0	4.4	20.6
SV6672NW	3.0	3.3	3.0	1.0	0.0	5.3	2.0	3.2	70.0
Swale	3.2	3.3	3.0	0.0	0.0	3.5	0.0	2.5	57.5
Tucannon	3.8	4.3	3.5	2.2	0.0	4.4	0.0	2.2	62.1
XP07716000	2.8	3.2	3.3	1.4	0.0	8.3	0.0	6.4	76.7
AVERAGE	3.3	3.6	3.4	0.4	0.08	4.8	0.2	3.8	47.1

¹**Firmness** 1 to 5 scale

5 = Rock hard bulbs

1 = Soft bulbs

³**Shape** 1 to 5 scale

5 = Highly uniform shape

1 = Extremely variable

²**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 29, 2016 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 15, 2017. 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.
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

Thanks to everyone who participated in the storage evaluation:

Gus Ambrogano, Logan Zenner	Jim Christopherson, Bejo Seeds
Todd Clark, Gowan Seed	Casey Crookham, Gowan Seed
Ben de Nijs, Hazera Seeds	Jimmy Graton, Gowan Seed
Steve Graton, Gowan Seed	Sage Haegen, Hazera Seeds
Ron Hull, Osborne Seed	Wally Huppert, L&L Ag
Calvin Lietzow, Hazera Seeds	Michael Navarrete, Seminis
Richard Navarrete, Seminis	Jason Turner, Logan Zenner
Travis Whitney, Nunhems USA	

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