

2005 COLUMBIA BASIN ONION STORAGE DEMONSTRATION RESULTS¹

Seed Company & Cultivar ²	Percentage ³			Single Centers	Bulb Firmness, Scale Retention, & Uniformity of Shape ⁴
	Neck Rot	Other Rot	Sprouted		
<u>American Takii</u>					
9003 G	4	0	0	64	3, 4, 3
9003 G (Treated)	2	0	0	50	3, 4, 3
T-433	4	0	0	32	4, 3, 3
T-433 (Treated)	2	0	0	22	3, 3, 3
T-441	0	0	0	68	3, 4, 3
T-441 (Treated)	2	0	0	38	3, 4, 3
T-817 ●	0	0	0	76	4, 4, 4
T-817 ● (Treated)	0	0	0	60	4, 4, 4
<u>Bejo Seeds</u>					
Calibra F1	0	0	0	20	3, 4, 3
Calibra F1 (Treated)	0	0	0	6	4, 5, 4
Copra F1	0	0	0	72	4, 4, 3
Copra F1 ● (Treated)	0	0	0	40	4, 5, 3
Crockett F1	0	0	0	72	4, 4, 4
Crockett F1 (Treated)	32	0	0	62	2, 4, 3
Gunnison F1	0	0	0	68	4, 4, 4
Gunnison F1 (Treated)	0	0	0	68	4, 5, 3
Red Bull F1 ●	0	0	0	48	3, 4, 3
Red Bull F1 ● (Treated)	2	0	0	32	3, 4, 2
Redwing ●	0	0	0	70	3, 4, 4
Redwing ● (Treated)	2	0	0	58	3, 4, 4
Sedona F1	0	0	0	84	3, 4, 3
Sedona F1 (Treated)	0	0	0	62	4, 4, 4

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	Neck Rot	Other Rot	Sprouted		
<u>Bejo Seeds, cont.</u>					
Talon F1	0	0	0	58	4, 4, 3
Talon F1 (Treated)	0	0	0	60	4, 4, 3
Tamara F1	0	0	0	70	3, 4, 3
Tamara F1 (Treated)	0	0	0	24	4, 5, 3
<u>Crookham Company</u>					
Genesis	2	0	0	44	3, 4, 3
Genesis (Treated)	0	0	0	32	4, 3, 2
Harmony	4	2	0	55	2, 4, 3
Harmony (Treated)	0	2	0	44	3, 3, 3
Nobility	0	0	0	78	4, 4, 3
Nobility (Treated)	0	0	0	82	4, 4, 2
<u>Global Genetics</u>					
Maverick	0	0	0	82	3, 4, 3
Maverick (Treated)	2	0	0	73	2, 4, 3
SWO 4001	0	0	0	64	3, 4, 3
SWO 4001 (Treated)	0	0	0	60	3, 3, 3
SWO 4014	0	0	0	52	3, 4, 3
SWO 4014 (Treated)	0	0	0	38	3, 4, 3
SWO 6011	0	2	0	92	3, 4, 2
SWO 6011 (Treated)	0	0	0	96	3, 4, 3
Varsity	16	0	0	74	2, 4, 3
Varsity (Treated)	8	0	0	58	3, 4, 3
<u>Nippon Norin</u>					
REE	0	0	0	54	3, 4, 4
REE Treated)	0	0	0	38	4, 4, 3
W-10	0	0	0	46	3, 4, 4
W-10 (Treated)	0	0	0	16	3, 3, 2
Tenshin	0	0	0	46	4, 4, 3
Tenshin (Treated)	0	0	0	34	3, 4, 3

Nunhems

Seed Company & Cultivar ²	Percentage ³			Single Centers	Bulb Firmness, Scale Retention, & Uniformity of Shape ⁴
	Neck Rot	Other Rot	Sprouted		
Flamenco ●	2	0	0	22	3, 3, 3
Flamenco ● (Treated)	0	0	0	22	3, 3, 3
Granero	20	0	0	94	2, 4, 4
Granero ● (Treated)	2	0	0	72	3, 5, 4
Montero	0	0	0	90	2, 4, 4
Montero (Treated)	0	0	0	76	3, 4, 3
Pandero	0	0	0	76	3, 4, 4
Pandero (Treated)	10	2	0	84	3, 4, 3
Ranchero	2	0	0	79	3, 4, 3
Ranchero (Treated)	0	2	0	70	2, 4, 3
Sabroso	0	2	0	76	3, 4, 3
Sabroso (Treated)	0	0	0	50	4, 5, 3
Salsa ●	0	0	0	46	3, 3, 4
Salsa ● (Treated)	2	0	0	34	3, 3, 4
Tesoro	0	0	0	38	3, 4, 3
Tesoro (Treated)	2	0	0	40	3, 4, 2
Vaquero	2	2	0	90	3, 5, 4
Vaquero (Treated)	48	0	0	90	1, 4, 4
SR 7200 ON	0	0	0	94	3, 4, 4
SR 7200 ON (Treated)	0	0	0	92	3, 4, 4
SX 7004 ON	0	0	0	100	3, 4, 3
SX 7004 ON (Treated)	4	0	0	84	3, 5, 4
<u>Seminis Vegetable Seeds</u>					
Charismatic (PX 5299)	4	0	0	70	3, 4, 4
Charismatic (Treated)	0	0	0	62	3, 4, 4
Citation (EX 7004)	0	0	0	72	5, 4, 4
Citation (EX 7004) (Treated)	0	0	0	44	3, 3, 3
Pinnacle	0	0	0	30	3, 4, 4
Pinnacle (Treated)	0	0	0	24	3, 4, 4
Red Zeppelin ●	4	0	0	28	3, 4, 3
Red Zeppelin ● (Treated)	6	0	0	12	3, 4, 2
Tioga	0	0	0	58	3, 4, 3

**Seminis Vegetable Seeds,
cont.**

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	Neck Rot	Other Rot	Sprouted		
Tioga (Treated)	0	0	0	28	4, 4, 4
Orizaba (5646) ▲	0	0	0	50	3, 4, 4
Orizaba (5646) ▲ (Treated)	0	0	0	46	4, 4, 4
Affirmed (5813)	0	0	0	90	3, 4, 4
Affirmed (5813) (Treated)	0	0	0	84	3, 4, 4
5819	0	0	0	72	3, 4, 3
5819 (Treated)	0	2	0	50	3, 4, 3
Monarchos (5843)	0	0	0	90	3, 4, 4
Monarchos (5843) (Treated)	0	0	0	80	3, 4, 4
6045	2	0	0	80	2, 4, 3
6045 (Treated)	2	4	0	73	3, 5, 4
7011	2	0	0	34	4, 4, 3
7011 (Treated)	0	0	0	40	4, 4, 3
7106 ▲	8	0	0	60	2, 4, 3
7106 ▲ (Treated)	0	0	0	42	3, 3, 3
Damascus (8112)	0	0	0	60	3, 4, 3
Damascus (8112) (Treated)	0	0	0	42	3, 4, 3
Caveat (8117)	0	0	0	37	3, 4, 4
Caveat (8117) (Treated)	0	0	0	60	3, 4, 3
Averages (Non-treated)	1.6	0.2	0.0	63.8	3.1, 4.0, 3.4
(Treated)	2.6	0.3	0.0	52.1	3.2, 4.0, 3.2

▲ = white onion

● = red onion

1. Bulbs were harvested and placed in storage on September 13th, 2005. Most cultivars had good field maturity. Maleic hydrazide was applied to this furrow irrigated crop prior to topping. Bulbs were held in mesh sacks in commercial bin storage (not heat-cured) at Grigg & Sons, Quincy, WA until evaluation on February 10, 2006.
2. American Takii, Inc., 301 Natividad Rd, Salinas, CA 93906, 408.443.4901
 Bejo Seeds, Inc., PO Box 40607, Eugene, OR 97404, 541.953.2090
 Crookham Company, PO Box 520, Caldwell, ID 83606, 208.459.7451
 Global Genetics, 3424 Roberto Court, San Luis Obispo, CA 93401, 208.642.0301
 Nippon Norin, 3219 Mariner Lane, Longmont, CO 80503, 303.772.0185
 Nunhems, 908 Riverview Ave., Selah, WA 98942, 503.393.3243
 Seminis Vegetable Seeds, 425 N. Columbia Center Blvd., Kennewick, WA 99336, 509.374.2805
3. Expressed as percentage of bulbs evaluated. 50 bulbs per entry were evaluated except for Maverick (treated), 6045 (treated), Harmony (treated), SWO 6011 (untreated), Ranchero (untreated), Caveat (8117) (untreated) and Harmony (untreated), for which 48, 48, 43, 48, 42, 46, and 47 bulbs were evaluated, respectively.
4. The comments are listed in the order: bulb firmness, scale retention, and uniformity of bulb shape. Each category was rated on a scale of 1 to 5, with 5 being the highest or most desirable and 1 being commercially unacceptable.

Firmness

1 to 5 scale
 5=Rock hard bulbs
 1=Soft bulbs

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

Shape Uniformity

1 to 5 scale
 5=Highly uniform
 1=Extreme variability in shape

Special thanks for their cooperation and interest to:

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 Chris Osborne, Osborne International Seed Co., Mount Vernon, WA

This and earlier onion demonstration data, including harvest results for the 2005 trial, can be viewed at our website:
<http://www.grant-adams.wsu.edu/>

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