COOPERATIVE EXTENSION
WASHINGTON STATE UNIVERSITY
GRANT AND ADAMS AREA

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2003 COLUMBIA BASIN ONION VARIETAL DEMONSTRATION RESULTS[1]

Seed Company & Cultivar[2]	Usable Yield (tons/acre)	Bulb Size (diameter) and Defects (%)[3]					Maturity[4]
		Over 4″	3 – 4″	2 ¼ – 3″	Under 2 ¼″	Defects	
American Takii							
Milestone	42.9	0	43	57	1	0	20, 98, 100
T-433	44.8	2	71	15	1	11	0, 7, 92
T-439	48.9	0	66	29	1	5	0, 20, 95
T-467	43.8	0	58	28	1	13	85, 97, 100
Bejo							
Copra	39.3	0	30	61	8	1	3, 93, 100
Daytona	45.8	0	61	37	2	1	0, 28, 93
Delgado	45.0	0	60	27	1	11	2, 40, 95
Gladstone ▲	37.8	0	45	52	2	1	3, 58, 97
Gunnison	39.4	0	43	51	6	1	25, 100, 100
Legend	46.0	0	71	29	0	0	13, 50, 97
Redwing ●	41.6	0	46	52	2	0	0, 3, 73
Sharon	30.8	0	40	58	2	0	2, 90, 100
Tamara	40.8	0	28	67	6	0	12, 98, 100
Winston	42.1	0	27	68	5	0	35, 98, 100
BGS 167	40.4	0	74	19	3	3	0, 7, 70

Seed Company & Cultivar[2]	Usable Yield (tons/acre)	Bulb Size (diameter) and Defects (%)[3]					Maturity[4]
		Over 4″	3 – 4″	2 ¼ – 3″	Under 2 ¼″	Defects	
Crookham							
Harmony	42.9	0	66	22	1	11	27, 87, 98 ■
XPH 95345	37.3	0	51	39	6	4	5, 68, 100
Global Genetics							
Varsity	50.3	0	66	32	1	0	78, 100, 100
SWO 4001	46.1	0	60	36	3	1	85, 98, 100
SWO 4014	47.9	0	62	36	2	0	63, 98, 100
SWO 6001	45.1	0	68	19	2	11	2, 37, 92 ■
SWO 6005	35.9	0	45	38	3	14	3, 48, 100 ■
SWO 6011	41.5	0	57	39	3	1	38, 97, 100
Nippon Norin							
Tenshin	40.6	0	40	57	3	1	23, 98, 100
RE-E	47.2	0	72	27	1	0	0, 65, 100
W-10	41.5	0	50	46	3	1	23, 100, 100
W-20	40.6	0	37	58	1	4	38, 98, 100
Seminis Vegetable Seed							
Red Zepplin ●	40.5	0	50	44	1	5	30, 100, 100
Seahawk (EX 15232)	37.9	0	35	59	6	0	7, 98, 100
Tioga	49.2	0	72	24	3	1	32, 100, 100
EX 15122	48.8	0	60	39	0	1	13, 88, 100
SVR 62088	47.0	0	63	34	1	2	53, 98, 100
Scottseed							
Dawn	12.2	0	18	8	1	73[5]	93, 100, 100
Red Marksman ●	33.7	0	48	41	3	9	58, 100, 100

Seed Company & Cultivar[2]	Usable Yield (tons/acre)	Bulb Size (diameter) and Defects (%)[3]					Maturity[4]
		Over 4″	3 – 4″	2 ¼ – 3″	Under 2 ¼″	Defects	
Sunseeds							
Flamenco ●	34.8	0	45	44	5	6	8, 95, 100
Granero	50.2	1	76	17	3	2	0, 33, 95
Ranchero	46.3	1	58	28	5	9	40, 97, 100
Sabroso	41.2	0	55	39	4	2	7, 43, 98
Tesoro	44.0	0	55	39	3	3	95, 100, 100
Vaquero	50.1	1	73	22	3	2	15, 77, 100
SX 7000	41.0	0	44	49	6	1	53, 100, 100
SX 7002	44.1	1	74	20	1	4	87, 100, 100
SX 9000 ●	46.5	0	76	22	1	1	0, 53, 100
Vilmorin							
Lorenzos	43.8	0	56	39	4	2	60, 100, 100
NIZ 37-32	37.8	0	44	49	7	0	73, 100, 100
NIZ 3746	34.2	0	39	58	1	2	10, 88, 100
Averages	**41.1**	**0**	**54**	**39**	**3**	**5**	**30, 77, 98**

●= red onion ▲=white onion ■=bolted (seedstalks)

1. The field was broadcast soil fumigated with metham sodium in the fall of 2002. Plots with two-double rows each were planted on 34" beds using coated seed at an intended 4 1/2" spacing between plants with a Stanhay planter on March 26. The plots were center pivot irrigated and fertilized with about 143-120-150-20-80 pounds per acre of N, P, K, S and Ca, respectively, over the season. About 25 pounds of N per acre was present in the soil in the spring of 2003. The plots were lifted on August 29 and harvested on September 12. All data is an average of 3 replications.

   ● = red onion ▲ = white onion

2. American Takii Inc., 301 Natividad Rd, Salinas, CA 93906, 408.443.4901
   Bejo Seed Co., 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, PO Box 1477, Longmont, CO 80501, 303.678.7333
   Seminis Vegetable Seed, 425 N. Columbia Center Blvd., Kennewick, WA 99336, 509.374.2805
   Scottseed, PO Box 144, Caldwell, ID 83606, 208.454.2679
   Sunseeds Inc., 908 Riverview Ave, Selah, WA 98942, 509.854.1365
   Vilmorin Inc. (Nickerson-Zwaan Seeds), PO Box 707, Empire, CA 95319, 209.529.6000

3. Bulb size and defects are expressed as a percentage of total bulbs harvested. Defects include double or split bulbs, severely split skins, "bald", off-color or obviously rotten bulbs and bulbs with seedstalks.

4. Maturity was determined by visual estimate of percentage of tops fallen on August 1st (first number), 8th (second number) 15th (third number) averaged over 3 replications. Cultivars or lines designated by ■ showed significant seed stalk formation (5% or more of the bulbs in at least two of the replications) at the time of maturity evaluations.

5. This cultivar exhibited a very high percentage of "bald" onions in this evaluation.

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Bob Mittelstadt, Clearwater Supply, Othello, WA
Ron Turner, Quincy Farm Chemicals, Quincy, WA

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