

2000 COLUMBIA BASIN ONION VARIETAL DEMONSTRATION RESULTS¹

Traditional Harvest

Bulb Size (diameter) and Defects (%)³

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	
<u>American Takii</u>							
Condor	63.7	22	57	17	2	3	12/47/98
Frontier	37.6	1	60	33	2	4	37/50/98
T-418	37.9	1	58	33	7	1	65/67/87
<u>Asgrow</u>							
Outrigger (XP 15067)	47.5	7	65	24	2	1	7/28/98
Spinnaker (XP 15043)	43.1	7	58	20	4	10	15/33/95
Tradewind (XP 15092)	48.7	8	70	12	2	7	25/75/100
<u>Bejo</u>							
Copra	31.4	0	52	30	10	9	3/18/72
Tamara	39.4	1	68	26	2	2	7/30/73
BGS 156	37.1	3	59	33	3	3	22/63/93
BGS 157	38.0	2	52	39	6	1	2/25/85
<u>Petoseed</u>							
Vantage	42.4	8	58	18	1	14	27/82/98
PS 456994	37.8	1	54	31	9	5	27/63/95

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	
<u>Seedex</u>							
RE	43.1	6	75	14	3	3	10/58/75
Tenshin	41.7	1	62	30	5	2	7/38/100
W10	44.0	1	60	30	6	2	32/45/97
<u>Sunseeds</u>							
Millenium	30.7	3	47	27	10	13	2/3/62
Sabroso	40.0	4	79	12	0	6	0/0/48
Tesoro	45.5	11	61	17	1	11	7/15/75
<u>Vilmorin</u>							
Lorenzos	42.6	5	63	24	7	1	13/35/73
Staccato	35.6	0	56	35	6	2	7/32/80
NIZ 3729	32.9	0	55	40	3	3	0/7/92
Averages (All Cultivars)	41.0	4	60	26	4	5	16/39/85

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Later Harvest

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	
<u>American Takii</u>							
T-406	43.6	5	59	12	1	23	0/3/55/80
T-433	59.9	37	40	9	2	12	0/0/8/42
T-434	45.9	26	44	3	0	27	0/2/28/67 ;
T-439	62.3	22	58	7	1	11	3/17/72/98
T-441	46.7	3	68	23	5	1	3/15/72/87
<u>Asgrow</u>							
XP 15120	57.8	27	55	11	2	5	3/22/77/97
XP 15122	54.3	16	63	16	1	5	7/42/90/97
XP 15232	46.3	11	51	25	7	6	2/7/70/97
XP 15234	50.8	30	41	12	2	16	0/2/23/60 ;
<u>Bejo</u>							
Daytona	41.5	11	55	22	5	7	0/0/5/52
Legend	47.5	18	55	13	5	9	0/3/38/88
Redwing ?	51.6	12	63	19	5	2	0/0/13/60
<u>Crookham</u>							
XPH 97H4	36.0	2	47	33	11	6	0/8/53/93
XPH 97H12	37.0	6	45	34	8	6	0/3/47/72
XPH 97H33	47.0	20	54	10	1	15	0/7/45/77 ;
XPH 97H36	50.6	29	48	13	0	9	2/5/35/70 ;

Bulb Size (diameter) and Defects (%)³

Seed Company & Cultivar ²	Usable Yield (tons/acre)	Over 4"	3 – 4"	2 ¼– 3"	Under 2 ¼"	Defects	Maturity ⁴
<u>Duane Palmer</u>							
Frosty ?	46.5	8	53	21	3	14	0/7/37/75 †
Kodiak	45.1	24	49	15	3	9	0/0/33/75
Mesquite	41.7	25	43	4	1	27	0/0/12/40 †
Tequila	52.4	36	39	9	0	16	0/0/13/67 †
<u>Petoseed</u>							
Pinnacle	52.4	25	55	10	5	4	8/45/97/98
Teton	43.5	7	56	20	4	13	7/27/72/92 †
Tioga	48.4	27	43	16	1	14	5/35/97/100
Vision	55.6	30	48	9	1	13	2/7/75/97
PS 901695 ?	51.8	32	46	11	1	9	0/0/20/92
<u>Sunseeds</u>							
Flamenco ?	28.7	3	63	20	2	11	3/33/70/93
Tango ?	45.1	8	70	17	2	3	0/17/95/98
Vaquero	56.4	29	54	8	4	5	0/2/53/73 †
SXO 1428	53.6	23	46	16	1	13	0/3/48/75 †
SXO 1430	48.9	42	40	10	1	6	0/8/88/98
<u>Vilmorin</u>							
Burgos	39.2	12	62	15	3	8	0/2/15/78
Averages (All Cultivars)	47.7	20	52	15	3	11	2/10/50/80

? = red onion

? =white onion

† =bolted

1. The field was broadcast soil fumigated with metham sodium in the fall of 1999. Plots with two-double rows each were planted using coated seed at an intended 4" spacing between plants with a Stanhay planter on April 5. The plots were drip irrigated and fertilized with about 199, 179, 306, 413 and 2 pounds per acre of N, P, K, S and B, respectively, over the season. About 100 pounds of N per acre was present in the soil in the fall of 1999. The traditional harvest plots were lifted about September 8 and harvested on September 26. The later harvest plots were lifted on October 2 and harvested on October 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
 Asgrow Seed Co., 1081 A Harkins Rd, Salinas, CA 93901, (408) 424-6905
 Bejo Seed Co., PO Box 40607, Eugene, OR 97404, (541) 953-2090
 Champion Seed, 502 S First St, Walla Walla, WA 99362, (509) 562-4353
 Crookham Company, PO Box 520, Caldwell, ID 83606, (208) 459-7451
 Duane Palmer Seed, 8269 S Highway 95, Yuma, AZ 85635 (520) 341-8494
 Petoseed Co., 15141 S 10 Avenue Circle, Caldwell, ID 83605, (208) 454-0842
 Seedex (Nippon Norin), PO Box 1477 , Longmont, CO 80501, (303) 678-7333
 Sunseeds Inc., 2210 Stephanie Brooke, Wenatchee, WA 98801, (509) 665-7242
 Vilmorin Inc., 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, off-color or obviously rotten bulbs and bulbs with seedstalks.
4. Maturity was determined by visual estimate of percentage of tops fallen on August 17th (first number), 24th (second number) and September 5th (third number) averaged over 3 replications. For the later harvest entries, an additional evaluation was conducted on September 14th (fourth number). Those cultivars or lines marked with † showed evident seed stalk formation (5% or more of the bulbs in at least two of the replications).

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Gary Q. Pelter
 Area Extension Agent – Vegetable/Vegetable Seed
 PO Box 37
 Ephrata WA 98823
 (509) 754-2011 Ext. 413