

2001 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				Defects	Maturity ⁴
		Over 4"	3 – 4"	2 ¼ – 3"	Under 2 ¼"		
<u>American Takii</u>							
Frontier	41.4	0	56	39	5	1	85/100
T-418	38.3	0	53	40	7	1	95/100
<u>Asgrow</u>							
Mariner (XP 15122)	49.1	5	64	23	5	2	12/92
Tradewind	43.0	3	56	27	7	6	30/100
<u>Bejo</u>							
Gunnison (BGS 157)	42.6	2	57	30	7	4	32/98
Salem	41.1	0	52	42	5	0	15/97
Sharon (BGS 156)	36.7	1	52	38	5	3	15/90
Tamara	41.8	1	55	34	10	1	0/95
Winston	42.5	0	55	37	6	2	7/100
<u>Crookham</u>							
xph 97H12	31.2	0	39	40	15	5	0/70
xph 99-9	32.6	6	51	27	5	10	75/100
<u>D. Palmer</u>							
Husky	28.8	0	56	31	8	5	47/100
Kodiak	42.3	14	57	15	2	12	0/28

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>Petoseed</u>							
Mercury?	43.4	18	45	26	8	2	15/98
Pinnacle	54.6	15	62	12	3	3	15/92
Tioga	51.6	6	66	20	5	3	18/100
PS 456994	40.8	1	56	39	4	1	20/100
<u>Seedex</u>							
Tenshin	40.3	0	72	24	3	1	0/97
J-250	55.0	39	35	13	0	12	3/93
RE-E	41.5	4	68	19	6	3	0/38
RE-M	38.6	22	60	9	0	9	0/83
W-10	39.9	0	62	27	10	1	0/95
<u>Seedworks</u>							
Pathfinder	41.7	9	58	17	4	11	37/98
SWO 7102	52.0	6	68	22	2	2	8/98
<u>Sunseeds</u>							
Brahma	44.7	7	52	30	3	8	10/93 †
Infinity	43.0	7	55	30	4	4	2/98
Sabroso	44.7	4	70	20	5	1	3/62
Tesoro	43.8	1	61	26	7	5	5/98
<u>Vilmorin</u>							
Lorenzos	39.8	7	62	24	6	1	0/70
Staccato	37.7	0	54	39	7	0	5/98
NIZ 37-32	37.1	4	58	27	9	2	20/98
Averages (All Traditional Harvest Cultivars)	42.0	6	57	27	6	4	18/89

2001 COLUMBIA BASIN ONION VARIETAL DEMONSTRATION RESULTS¹

Later 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>							
Eagle (T-406)	44.2	5	65	16	3	10	0/53/100
T-433	50.0	19	60	7	6	8	0/22/92
T-434	38.7	26	39	14	3	18	0/35/98
T-439	54.3	11	54	17	3	15	3/95/100 ;
T-441	46.0	2	69	25	4	0	0/67/100
<u>Asgrow</u>							
Red Zeppelin ? (XPH 15300)	40.1	1	60	27	9	3	12/98/100
Santa Fe (EX 15225)	57.0	19	59	17	2	3	0/60/98
EX 77031	54.0	12	62	16	3	7	12/87/100
<u>Bejo</u>							
Daytona	47.7	11	59	24	5	2	0/22/100
Legend	50.1	2	75	21	2	0	0/80/100
Redwing ?	45.5	4	70	22	2	2	0/52/98
<u>Crookham</u>							
Zorro	49.8	17	53	22	3	6	0/52/100
xph 95345	44.1	6	58	27	6	3	3/87/100
xph 97H19	35.9	1	51	37	8	2	2/90/100
xph 97H33	53.6	14	70	11	0	5	0/52/100

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>D. Palmer</u>							
Frosty ?	39.6	1	51	26	13	9	0/80/100
Mesquite	47.1	5	58	23	3	11	0/42/95 †
Tequila	57.0	15	58	19	2	6	2/60/98
<u>Petoseed</u>							
Flare ?	49.1	12	61	14	5	8	2/82/100
Vision	50.9	8	69	21	1	1	0/85/100
<u>Seedworks</u>							
SWO 7254	48.7	22	49	21	6	3	0/43/100
SWO 7761	50.3	6	65	27	1	1	3/95/100
SWO 12028	47.8	21	53	16	3	7	0/25/95
<u>Sunseeds</u>							
Flamenco ?	41.1	2	66	29	2	0	2/97/100
Granero (SXO 1428)	50.7	11	61	18	1	9	0/45/98 †
Ranchero (SXO 1430)	58.0	26	62	8	3	1	2/67/100
Tango ?	42.3	9	61	26	2	2	0/97/100
Vaquero	52.9	18	60	18	2	2	0/57/98
Averages (All Later Harvest Cultivars)	48.1	11	60	20	3	5	1/16/98

? = red onion

? =white onion

† =bolted (seedstalks)

1. The field was broadcast soil fumigated with metham sodium in the fall of 2000. Plots with two-double rows each were planted using coated seed at an intended 4" spacing between plants with a Stanhay planter on April 2. The plots were drip irrigated and fertilized with about 180, 200, 250, 170 and 3 pounds per acre of N, P, K, S and Zn, respectively, over the season. About 100 pounds of N per acre was present in the soil in the spring of 2001. The traditional harvest plots were lifted about September 4 and harvested on September 20. The later harvest plots were lifted on September 13 and harvested on October 4. 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
Crookham Company, PO Box 520, Caldwell, ID 83606, 208.459.7451
D. 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
Seedworks, 3920 Broad St #5, San Luis Obispo, CA 93401, 805.547.0280
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 9th (first number), 23rd (second number) and for the later harvest entries on September 6th (third number) averaged over 3 replications. 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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