

2010 WESTERN REGIONAL CHIPPING POTATO TRIAL REPORT

State Agricultural Experiment Stations and
USDA-ARS

California
Colorado
Idaho
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Texas



2010 WESTERN REGIONAL CHIPPING POTATO TRIAL REPORT

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Compiled by David Holm and Caroline Gray

TABLE 1: 2010 Western Regional Chipping Potato Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

Locations	Cooperators	Trial	Irrigation	Fertilizer N-P-K-S(lb/A)	Planting Date	Vine Kill Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Insecticides	Fungicides
Tulelake California (CA)	R. Wilson D. Kirby	Late	Sprink.	210-158-0-399	19-May	28-Sep	13-Oct	132	147	Matrix Metribuzin Prowl	Leverage	Quadris Blocker Bravo Endura Manzate
San Luis Valley Colorado (CO)	D. Holm C. Gray	Late	Pivot	120-60-40-2.5Zn	14-May	1-Sep	27-Sep	110	136	Dual Magnum	Endigo ZC Fulfill	Bravo WS Quadris
Aberdeen Idaho (ID)	J. Stark R. Novy J. Whitworth P. Bain	Late	Sprink.	135-105-0	3-May	2-Sep	27-Sep	122	147	Sencor Matrix Eptam	Admire Pro	Echo
Klamath Falls Oregon (KLA)*	B. Charlton D. Culp	Late	Sprink.	160-191-185 97S-5.85Zn-1.05B	13-May	2-Sep	13-Oct	112	153	Matrix Metribuzin	Admire Pro	Topps MZ Quadris Ridomil Bravo Headline, Quadris Endura
Dalhart	J. C. Miller, Jr. J. Koym D. Schuering	Late	Pivot	189-57-0	6-May	20-Aug	4-Oct	106	151	Charger Framework Chateau Sencor Select Max Dual	Beleaf 50 Sg EPI-MEK 0.15 EC Fulfill Movento	Headline Echo 720 Ag Endura Revus Top Scala SC
Springlake Texas (STX)	J. C. Miller, Jr. J. Koym D. Schuering	Early	Pivot	201-33-33-24	31-Mar	28-Jul	24-Aug	125	130	Sencor Roundup Treflan	Admire Pro Rimon Movento Fulfill Agrimek Tracer Venom Abacus	Bravo Dithane Quadris Super Tin

*Trial conducted at Merrill due to irrigation uncertainty at Klamath Basin research station.

TABLE 2: 2010 Western Regional Chipping Potato Trial - CLONE, PARENTS, ENTERED BY, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS, AND STEMS PER PLANT

No	Clone	Parents	Flower Color	Entered by	Year in Trial	Seed Source	Stand %	Tuber Shape	Tuber Size	Skin	Vine Size	Vine Maturity	Stems/Plant	
1	ATLANTIC	WAUSEON B5141-6	V Lt Red-purple	Check	Ck	CO	94	2.0	Oval	2.3	Buff	3.2 Med-large	3.0 Med-early	2.9
2	CHIPETA	WNC612-13 WISCHIP	Med Red-purple	Check	Ck	CO	98	1.8	Oval	1.6	White	4.1 Large	3.6 Med-late	2.4
3	A00188-3C	A91790-13W Dakota Pearl	Light-purple	ID	1	ID	98	1.7	Oval	1.3	White	3.0 Medium	3.1 Medium	4.6
4	A01143-3C	COA95070-8 Chipeta	White	ID	1	ID	98	1.2	Round	1.6	White	3.7 Med-large	3.6 Med-late	4.8
5	CO00188-4W	A90490-1W BC0897-2W	Red-purple	CO	2	CO	97	1.4	Round	1.3	White	3.0 Medium	2.5 Early	2.9
6	CO00197-3W	A91790-13W NDTX4930-5W	White	CO	2	CO	96	1.9	Oval	1.2	White	3.0 Medium	2.5 Early	2.7
7	CO00270-7W	BC0894-2W A91790-13W	Red-purple	CO	2	CO	94	1.8	Oval	1.2	White	2.9 Medium	2.8 Med-early	2.4

1 Numerical values are means of all trial locations.

2 1.0-2.0=Round, 2.1-2.5=Round-Oblong, 2.6-3.5=Oblong, 3.6-4.0=Oblong-Long, 4.1-5.0=Long

3 1.0-2.0=White, 2.1-3.0=Light Russet, 3.1-4.0=Medium Russet, 4.1-4.5=Medium Heavy Russet, 4.6-5.0 Heavy Russet

4 1.0-2.5=Small, 2.6-3.0=Medium, 3.1-4.0=Medium-Large, 4.1-4.5=Large, 4.6-5.0=Very Large

5 1.0-2.5=Early, 2.6-3.0=Medium-Early, 3.1-3.5=Medium, 3.6-4.0=Medium-Late, 4.1-4.5=Late, 4.6-5.0=Very Late

TABLE 3: 2010 Western Regional Chipping Potato Trial - TOTAL YIELD - YIELD OF U.S. #1'S (CWT/A & %)

No. Clone	Total Yield (CWT/A)						Entry Mean ¹	Rank	U.S. No. 1's (CWT/A) / %						Entry Mean ¹	Rank
	CA	CO	ID	KLA	DTX	STX			CA	CO	ID	KLA	DTX	STX		
1 ATLANTIC	558	502	459	552	393	176	493	1	454	459	400	438	390	161	428	1
									81	91	87	79	99	92		
2 CHIPETA	528	584	508	604	173	32	479	2	456	522	448	533	165	24	425	2
									86	89	88	88	95	76		
3 A00188-3C	392		435	465	261	103	388	6	261		323	227	240	80	263	7
									67		74	49	92	78		
4 A01143-3C	481		503	548	315	11	462	4	395		415	380	307	4	374	3
									82		83	69	98	32		
5 CO00188-4W	439	411	339	541	406	206	427	5	316	355	248	415	378	195	342	5
									72	86	73	77	93	95		
6 CO00197-3W	441	484	444	572	383	96	465	3	294	396	361	429	356	62	367	4
									67	82	81	75	93	65		
7 CO00270-7W	357	378	388	542	274	61	388	7	297	348	348	459	251	53	341	6
									83	92	90	85	92	86		
Location Mean	457	472	439	546	315	98			353	416	363	411	298	83		
									77	88	82	75	95	75		

¹Entry means do not include STX.

TABLE 4: 2010 Western Regional Chipping Potato Trial - YIELD OF U.S. #1'S >10-12 OZ
& YIELD <4OZ (CWT/A & %)

No. Clone	U.S. No. 1's >10/12 OZ (CWT/A) / %						Yield <4 OZ (CWT/A) / %							
	CA ¹	CO ¹	ID	KLA ²	Entry Mean	Rank	CA	CO	ID	KLA	DTX	STX	Entry Mean ³	Rank
1 ATLANTIC	98	217	61	25	100	4	74	28	53	88	0	7	49	5
	18	43	13	5	20	3	13	6	12	16	0	4	9	5
2 CHIPETA	232	250	202	121	201	1	23	39	16	49	0	6	25	7
	44	43	40	20	37	1	4	7	3	8	0	19	4	7
3 A00188-3C	23		21	0	15	7	111		104	232	1	7	112	1
	6		5	0	4	7	28		24	50	0	7	26	1
4 A01143-3C	97		18	10	42	6	62		74	157	2	4	74	2
	20		4	2	9	4	13		15	29	1	37	14	4
5 CO00188-4W	27	355	7	5	98	5	108	39	87	113	4	8	70	4
	6	13	2	1	5	6	25	9	26	21	1	4	16	2
6 CO00197-3W	44	396	26	14	120	3	96	85	69	113	1	12	73	3
	10	15	6	2	8	5	22	18	16	20	0	12	15	3
7 CO00270-7W	111	348	73	27	140	2	35	24	32	69	3	7	33	6
	31	37	19	5	23	2	10	6	8	13	1	11	8	6
Location Mean	90	313	58	29	123		67	43	51	86	2	8	50	
	19	30	13	5	17		15	9	13	16	0	10	11	

¹10 ounce

²14 ounce

³Entry means do not include STX.

TABLE 5: 2010 Western Regional Chipping Potato Trial - SPECIFIC GRAVITY

No. Clone	Specific Gravity						Entry Mean ¹	Rank
	CA	CO	ID	KLA	DTX	STX		
1 ATLANTIC	1.093	1.103	1.097	1.095	1.071	1.056	1.092	1
2 CHIPETA	1.086	1.097	1.083	1.088	1.052	1.034	1.081	5
3 A00188-3C	1.091		1.090	1.089	1.063	1.047	1.083	3
4 A01143-3C	1.086		1.083	1.090	1.058		1.079	6
5 CO00188-4W	1.090	1.090	1.089	1.086	1.064	1.055	1.084	2
6 CO00197-3W	1.089	1.088	1.086	1.087	1.062	1.043	1.082	4
7 CO00270-7W	1.089	1.078	1.083	1.083	1.054	1.044	1.077	7
Location Mean	1.089	1.091	1.087	1.088	1.061	1.054		

¹Entry means do not include STX.

TABLE 6: 2010 Western Regional Chipping Potato Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

No. Clone	Average Tuber Size (oz)						Tuber Shape					Entry Mean ¹		
	CA	ID	KLA	DTX	STX	Entry Mean ¹	Length/ Width	Length/ Depth	(1-5, 1 = round, 5 = long)					
							ID	ID	CA	CO	KLA		DTX	STX
1 ATLANTIC	5.8	6.5	5.1	5.3	2.8	5.7	1.00	1.24	1.3	2.0	1.5	3.0	1.9	2.0
2 CHIPETA	8.6	9.9	7.3	4.4	1.3	7.6	1.13	1.31	1.4	2.0	1.6	1.5	1.6	1.6
3 A00188-3C	4.5	4.8	3.2	3.7	1.8	4.0	0.98	1.13	1.2		1.0	3.4	2.5	1.9
4 A01143-3C	5.9	5.6	4.1	4.0	1.3	4.9	1.07	1.25	1.3		1.1	1.5	1.0	1.3
5 CO00188-4W	4.7	4.7	4.6	5.3	2.4	4.8	1.01	1.24	1.2	2.0	1.0	1.5	2.3	1.4
6 CO00197-3W	4.9	5.7	4.5	3.6	1.6	4.7	1.13	1.42	1.3	2.0	1.6	2.5	2.5	1.9
7 CO00270-7W	6.7	6.9	5.9	4.7	1.7	6.0	1.05	1.25	1.5	2.0	1.3	2.0	1.9	1.7
Location Mean	5.9	6.3	5.0	4.4	1.8		1.05	1.26	1.3	2.0	1.3	2.2	2.0	

¹Entry means do not include STX.

TABLE 7: 2010 Western Regional Chipping Potato Trial - EXTERNAL DEFECTS - GROWTH CRACKS, SECOND GROWTH, SHATTER BRUISE, SCAB - MEANS OF LOCATIONS

No. Clone	Growth Cracks ¹							Second Growth ¹							Shatter Bruise ¹				Scab ¹				
	CA ²	CO	ID	KLA	DTX	STX	Mean ³	CA ²	CO	ID	KLA	DTX	STX	Mean ³	KLA	DTX	STX	AB ⁴	KLA	DTX	STX	Mean ³	
1 ATLANTIC	1.8	4.0	5.0	4.8	5.0	5.0	4.7	1.8	5.0	5.0	5.0	5.0	5.0	5.0	4.3	5.0	5.0	4.6	3.3	3.8	5.0	5.0	4.4
2 CHIPETA	2.5	4.0	4.0	4.8	5.0	5.0	4.4	5.0	5.0	4.3	5.0	5.0	5.0	4.8	4.3	5.0	5.0	4.6	2.9	4.3	5.0	5.0	4.7
3 A00188-3C	1.0		5.0	5.0	5.0	5.0	5.0	6.3		4.5	5.0	5.0	5.0	4.8	4.8	5.0	5.0	4.9	3.2	4.5	5.0	5.0	4.8
4 A01143-3C	2.5		5.0	4.8	5.0	5.0	4.9	2.8		4.5	5.0	5.0	5.0	4.8	4.5	5.0	5.0	4.8	3.3	4.5	5.0	5.0	4.8
5 CO00188-4W	1.0	3.0	5.0	5.0	5.0	5.0	4.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	4.6	5.0	5.0	4.8	3.3	5.0	5.0	5.0	5.0
6 CO00197-3W	1.0	5.0	5.0	4.8	5.0	5.0	4.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.8	5.0	5.0	4.9	3.0	1.5	5.0	5.0	3.3
7 CO00270-7W	5.0	5.0	5.0	4.8	5.0	5.0	4.9	1.0	5.0	5.0	5.0	5.0	5.0	5.0	3.8	5.0	5.0	4.4	2.1	4.8	5.0	5.0	4.9
Location Mean	2.1	4.2	4.9	4.8	5.0	5.0		3.5	5.0	4.8	5.0	5.0	5.0		4.4	5.0	5.0		3.0	4.1	5.0	5.0	

¹Score 1-5, with 1=severe, 5=none.

²Average number of tubers/plot with defect. Data not included in means.

³Entry means do not include STX.

⁴Aberdeen shatter scores obtained from bruise evaluation conducted using a shatter chamber [1-5(none)].

TABLE 8: 2010 Western Regional Chipping Potato Trial - INTERNAL DEFECTS - HOLLOW HEART PLUS BROWN CENTER,
INTERNAL BROWN SPOT, VASCULAR DISCOLORATION/NET NECROSIS, BLACKSPOT - MEANS OF LOCATIONS

No.	Clone	Percent Hollow Heart plus Brown Center							Percent Internal Brown Spot				Percent Net Necrosis Vascular Discoloration					Blackspot Bruise							
		CO	ID	KLA	CA	DTX	STX	Mean ¹	ID	KLA	DTX	STX	Mean ¹	ID	KLA	CA	DTX	STX	Mean ¹	% STX	DTX ²	CO ²	CA ²	% KLA	AB ³
1	ATLANTIC	8	30	10	3	5	0	11	0	0	8	0	3	0	0	10	0	33	3	0	5.0	2.8	2.8	0.0	4.0
2	CHIPETA	0	7	0	0	0	0	1	0	0	0	0	0	0	0	13	3	8	4	0	5.0	4.1	4.1	0.0	3.6
3	A00188-3C		5	0	0	3	0	2	0	0	0	0	0	0	3	15	0	75	4	0	5.0			2.5	4.7
4	A01143-3C		0	0	0	3	0	1	0	0	0	0	0	0	0	8	0	10	2	0	5.0			2.5	3.5
5	CO00188-4W	0	0	0	0	3	0	1	0	0	0	0	0	3	0	10	0	8	3	0	5.0	4.6	4.6	5.0	3.5
6	CO00197-3W	0	3	0	0	0	5	1	0	0	0	0	0	0	0	18	0	10	4	0	5.0	3.1	3.1	27.5	2.3
7	CO00270-7W	0	0	0	0	3	3	1	0	0	0	0	0	0	0	18	0	20	4	0	5.0	4.3	4.3	2.5	3.5
LOCATION MEAN		2	6	1	0	2	1		0	0	1	0		0	0	13	0	23		0.0	5.0	3.8	3.8	5.7	3.6

¹Entry means do not include STX.

²Score 1-5, with 1=severe, 5=none.

³Aberdeen blackspot scores from an abrasive peel test [1-5(none)].

TABLE 9: 2010 Western Regional Chipping Potato Trial - CHIP COLOR

Clone	STX ¹ Field	CO ¹				ID ¹			50 Mean
		Chip 40		Chip 50		Chip 40		Chip 50	
		a	Recon ^b	c	Recon ^d	a	Recon ^b	c	
1 ATLANTIC	1.0	4.5	4.0	3.0	2.5	3.8	3.7	1.9	2.5
2 CHIPETA	3.0	4.5	4.0	3.0	1.5	4.2	4.0	2.1	2.6
3 A00188-3C	1.0					3.0	2.5	1.4	1.4
4 A01143-3C	1.0					2.6	1.5	1.1	1.1
5 CO00188-4W	2.0	3.5	2.0	2.0	1.5	2.6	2.1	1.2	1.6
6 CO00197-3W	1+	3.5	1.5	2.5	2.0	3.3	2.7	1.1	1.8
7 CO00270-7W	2.0	4.0	1.0	3.0	2.0	2.3	1.3	1.1	2.1
Location Mean	1.7	4.0	2.5	2.7	1.9	3.1	2.5	1.4	

¹ Color using Snack Food Association chip color standard (1-5(darkest)).

^a Stored 5-8 weeks at 40°F.

^b Stored 5-8 weeks at 40°F plus 3 weeks at 60°F.

Stored 5-8 weeks at 50°F.

^d Stored 5 weeks at 50°F plus 3 weeks at 60°F.

TABLE 10: 2010 Western Regional Chipping Potato Trial - SOLIDS, DEXTROSE, SUCROSE, PROTEIN, VITAMIN C, AND GLYCOALKALOIDS - ABERDEEN

Clone	Solids Oven Dry (%)	Sugars		Protein (%DWB) ²	Vitamin C (mg/100g FWB) ¹	Glycoalkaloids (mg/100g FWB) ^{1,2}
		Dextrose (%FWB) ¹	Sucrose (%FWB) ¹			
1 ATLANTIC	25.1	0.02	0.15	5.3	21.7	7.6
2 CHIPETA	22.2	0.01	0.14	5.6	25.2	4.5
3 A00188-3C	23.2	0.00	0.10	6.1	24.2	4.4
4 A01143-3C	22.2	0.00	0.14	5.4	24.5	4.9
5 CO00188-4W	22.9	0.00	0.11	5.7	23.9	3.7
6 CO00197-3W	21.4	0.00	0.10	4.8	17.9	3.6
7 CO00270-7W	21.7	0.01	0.09	5.5	21.3	8.6
Mean	22.7	0.01	0.12	5.5	22.7	5.3

¹FWB = fresh weight basis DWB = dry weight basis.

²Glycoalkaloids: 2009 Lenape check from Aberdeen was 42.6 mg/100g.

TABLE 11: 2010 Western Regional Chipping Potato Trial - SPECIFIC GRAVITY,
 DEXTROSE, SUCROSE, AND CHIP DEFECTS - KLAMATH FALLS

Clone	Specific Gravity	Sugars		% Total Defects ²
		Dextrose (%FWB) ¹	Sucrose (%FWB) ¹	
1 ATLANTIC	1.096	0.06	0.30	23
2 CHIPETA	1.083	0.01	0.34	23
3 A00188-3C	1.085	0.00	0.21	7
4 A01143-3C	1.088	0.01	0.25	16
5 CO00188-4W	1.088	0.01	0.21	16
6 CO00197-3W	1.087	0.02	0.22	39
7 CO00270-7W	1.081	0.01	0.21	6
Mean	1.087	0.02	0.25	19

¹FWB = fresh weight basis.

²Finished chips out of grade (includes color, green, internal defects, etc.).

TABLE 12: 2010 Western Regional Chipping Potato Trial - DISEASE EVALUATIONS, METRIBUZIN REACTION

No. Clone	Vert. Wilt/ Early Dying		Early Blight			Late Blight			Common Scab		% Net Necrosis/ vascular discoloration ¹		Root- knot	KLA Rhizoc. ⁵	Pecto- bacterium		Fusarium Dry Rot (0-5)	Metr. Reaction	Powdery Scab KLA ⁷	
	AB ¹		AB ¹		CORV ³		AB ¹		AB		AB	Soft Rot ¹			F(sam)	F(sol)				AB ⁶
	AB ¹	HRM ²	Foliar	Tuber	Foliar	Tuber	% Serious	Incidence	Defect	Incidence			Defect	Prosser ⁴			0-5(none)	0-5		
	(0-9) ²	AUDPC	(0-9)	(0-9)	AUDPC	%	1-9	AUDPC	%	Incidence	Defect	Incidence	Defect	Prosser ⁴	0-5(none)	0-5	F(sam)	F(sol)	AB ⁶	1-5 (none)
1 Atlantic	4.2	74	8.6	3.8	298	0	9	1190	8	47	20	39	0	S	3.1	1.7	3.5	3.3	--	3.4
2 Chipeta	2.7	29	6.3	2.3	252	1	8	1134	8	55	13	48	0	S	2.9	2.3	2.6	1.8	--	1.5
3 A00188-3C	3.7	224	7.6	3.8	665	3	9	1218	3	41	2	84	0	S	3.8	2.7	3.5	1.2	R	4.4
4 A01143-3C	2.0	36	5.8	3.3	273	0	9	1151	8	41	2	35	3	S	2.8	2.6	2.7	1.3	R	3.4
5 CO00188-4W	8.3	798	9.0	8.7	805	0	9	1328	8	31	4	26	8	S	4.5	3.1	3.7	1.3	R	4.0
6 CO00197-3W	6.3	571	8.9	4.5	665	0	9	1283	28	68	36	74	0	S	4.3	3.9	3.4	2.8	R	3.0
7 CO00270-7W	5.3	294	8.7	5.0	585	3	9	1329	30	60	13	59	0	S	4.0	3.4	3.9	3.7	R	3.5
MEANS	4.6	289.4	7.8	4.5	506	1	8.9	1233	13.3	49.0	13	52	2	--	3.6	2.8	3.3	2.2	--	3.3
LSD @ .05	1.2	0.9	1.0	1.0	10	0.5	114	16	24	12	21	17	--	--	1.4	0.8	0.8	0.8	--	--

¹ Evaluations made at Aberdeen, Idaho by Jonathan Whitworth; scale as indicated with highest number being most severe. For 0 to 9: 0=no symptoms;

1= trace; 2=1-5%; 3=5-10%; 4=10-20%; 5=25-40%; 6=40-60%; 7=60-70%; 8=75-90%; 9=90-100% dead or dying with typical disease symptoms.

Early Blight and Vert. Wilt AUDPC: Area Under the Disease Progress Curve based on foliar readings taken 106, 113, and 120 days after planting.

Common Scab and Net Necrosis serious defects are the number of tubers with a 3 rating (0-5 scale) or higher, divided by the total number of tubers examined. Net necrosis data from PLRV-infected plots.

For 0 to 5: 0=0%/none; 5=100%/severe as a combination of tuber area and degree impacted by Fusarium and Pectobacterium inoculations.

² Evaluations made at Hermiston, Oregon by Dan Hane; scale as indicated, highest number being most severe.

Evaluations made at Corvallis, Oregon by Solomon Yilma; 1=no foliar injury; 3=5-10%; 5=25-40%; 7=60-75%; 8=75-90%; 9=90-100%.

Late blight AUDPC=area under the disease progress curve. Higher number indicates more disease over time; % of tubers examined with any late blight symptoms.

⁴ Evaluations made at Prosser, WA by Chuck Brown. S=susceptible, R= resistant

⁵ Evaluations made at Klamath Falls, Oregon by Brian Charlton. Seed treated with thiophanate-methyl (Tops MZ®) and Azoxystrobin (Quadris®)

⁶ Metribuzin reaction measured at Aberdeen, ID. VR=very resistant, R=Resistant, MR=Moderately resistant, MS=moderately susceptible, S=susceptible VS=very susceptible

⁷ Evaluations made at Klamath Falls, Oregon.

TABLE 13: 2010 Western Regional Chipping Potato Trial - MERIT SCORES (1-5(best))

No.	Clone	Fresh Merit					Processing Merit		
		CO	ID	DTX	STX	Mean ¹	CO	ID	Mean
1	ATLANTIC	2.0	3.0	3.6	3.1	2.9	1.0	3.0	2.0
2	CHIPETA	5.0	2.3	2.5	2.8	3.3	2.0	2.5	2.3
3	A00188-3C		3.5	2.9	2.3	3.2		3.5	3.5
4	A01143-3C		3.8	2.6	1.3	3.2		4.5	4.5
5	CO00188-4W	2.0	2.5	3.5	3.8	2.7	4.0	3.5	3.8
6	CO00197-3W	2.0	2.5	2.5	2.7	2.3	1.0	4.0	2.5
7	CO00270-7W	2.0	3.8	2.3	2.6	2.7	4.0	4.2	4.1
Location Mean		2.6	3.1	2.8	2.7		2.4	3.6	

¹Entry means do not include STX.

TABLE 14: 2010 Western Regional Chipping Potato Trial - SUMMARY

No.	Clone	Year in Trial	Total Yield	% US#1's	Tuber Size (oz)	Specific Gravity	Chip Color	Merit Score	Disposition
1	ATLANTIC	CK	493	428 87	5.7	1.092	2.5	2.0	Check
2	CHIPETA	CK	479	425 89	7.6	1.081	2.6	2.3	Check
3	A00188-3C	1	388	263 71	4.0	1.083	1.4	3.5	Drop
4	A01143-3C	1	462	374 83	4.9	1.079	1.1	4.5	Return
5	CO00188-4W	2	427	342 80	4.8	1.084	1.6	3.8	Return
6	CO00197-3W	2	465	367 80	4.7	1.082	1.8	2.5	Return
7	CO00270-7W	2	388	341 88	6.0	1.077	2.1	4.1	Return

Comments and Information from States

Aberdeen, Idaho Comments			Sugar Ends			
1	ATLANTIC	scaley, scab	19.0			
2	CHIPETA	big, deep ends	28.0			
3	A00188-3C	round, uniform, stolons attached	0.0			
4	A01143-3C	buff, uniform, shatter	0.0			
5	CO00188-4W	small, round, few	0.0			
6	CO00197-3W	stolons attached, non-uniform	0.0			
7	CO00270-7W	white, big, odd shapes	0.0			
Klamath Falls, Oregon Comments			Size Uni. (1-5 ex.)	Shape Uni. (1-5 ex.)	Eye Depth (1-5 shal.)	Greening (1-5 none)
1	ATLANTIC	Flat, ok	3.9	3.9	4.5	4.0
2	CHIPETA	Big, powdery scab, ugly	4.1	4.0	4.5	4.3
3	A00188-3C	Small, good shape, keep	4.8	4.8	4.9	4.4
4	A01143-3C	Small, good shape, ok	4.5	4.6	4.9	4.3
5	CO00188-4W	Nice, uniform, keep	4.4	4.4	4.8	4.4
6	CO00197-3W	Black dot, flat, ok	4.1	3.9	5.0	4.1
7	CO00270-7W	Some pear, smooth, nice	4.0	4.0	4.9	4.4
Dalhart, Texas Comments						Percent Zebra
1	ATLANTIC	4% heat necrosis Chip notes (1 GH; 1HH, 1BC)				0%
2	CHIPETA	low yield, small Chip notes (none)				11%
3	A00188-3C	rough Chip notes (BOT)				0%
	A01143-3C	feathering, small Chip notes (none)				0%
5	CO00188-4W	Chip notes (2 MB)				0%
6	CO00197-3W	poor shape, drop, rough, ugly Chip notes (1 Dark)				1%
7	CO00270-7W	sticky stolon Chip notes (none)				0%
Springlake, Texas Comments						Percent Zebra
1	ATLANTIC	nice shape yield+, sticky stolon, poor internals, bad rep Chip notes (17 Dark)				4%
2	CHIPETA	yield-, dropsticky stolon, late, drop Chip notes (7 Dark)				3%
3	A00188-3C	smallsticky stolon, heat sprouts, drop+, poor internals, rough, small Chip notes (3 dark; BOT)				8%
4	A01143-3C	small, latedrop, small, late Chip notes (20BC)				10%
5	CO00188-4W	nice shape nice flesh, BOT+, BOT for flesh, heavy set, small Chip notes (none)				0%
6	CO00197-3W	heavy setpoor shape, sticky stolon, pear shape, poor shape, drop++Chip notes (6 Dark)				9%
7	CO00270-7W	yield-drop+, small Chip notes (none)				0%

TX Notes: BOT=Best of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB=pressure bruise, GH=greenheads, Z=zebra, BC=brown center, MB=mahogany browning

* Tulelake, California reported a problem with black scurf on all clones in the trial.