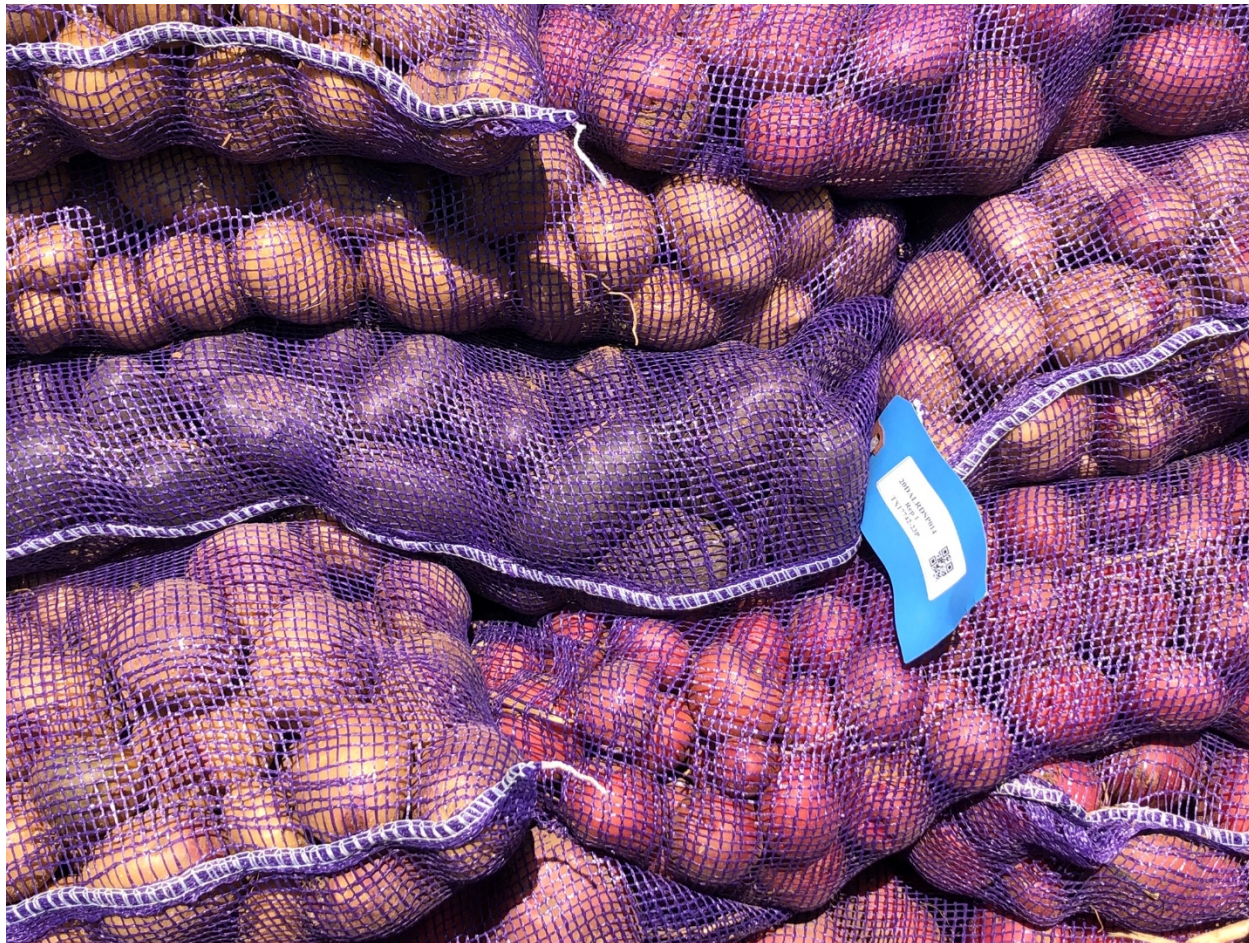


2020 Western Regional



Red/Specialty Trial

2020 Western Regional Red/Specialty Trial

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Table 1. Western Regional Red/Specialty Potato Variety Trial - Locations, Cooperators, and Cultural Information

Locations	Cooperators	Irrigation	Fertilizer N-P-K-S (lb./A)	Vine Kill Method	Planting Date	Vine Kill Date	Harvest Date	Pesticides Applied		
								Herbicides	Insecticides	Fungicides
Ontario Oregon (ON)	Clint Shock, E. Feibert	Sprinkler, solid set	235 N, 0.5 Zn	Mechanical	4/7/2020	9/15/2020	10/1/2020	Magnum (metolachlor), preemergence Prowl H2O (pendimethalin), preemergence Eptam (ethyl dipropylthiocarbamate), preemergence Matrix (rimsulfuron) May 27	Imidacloprid, prepl	Manzate Pro Stik (mancozeb), May 27 Vertisan (penthiopyrad), June 18 Luna Tranquility (fluopyram/pyrimethanil), July 2
Tulelake California (TUL)*	R. Wilson D. Culp K. Nicholson	Solid-set sprinkler	74-80-260	Reglone / Roll	5/15/2020	9/3/2020	10/1/2019	Prowl H2O Eptam 7E Matrix SG	Admire Pro	Quadris Luna Tranquility
San Luis Valley Colorado (SLV)	D. Holm C. Gray K. Gaudreau E. Niebaum	Pivot	106-76-180-11	Reglone	5/12/2020	9/3/2020	9/25/2020	Rifle-D Metribuzin 75 Eptam 7-E	Pure Spray Green Sefina Inscalis Movento HL Leverage 360	Revus Top Quadris Top Bravo Weather Stik
Aberdeen Idaho (AB)	R Spear R. Novy, J. Whitworth, C. Lowder	Sprinkler	230-100-0-0-5Mn	Mechanical	4/30/2020	8/14/2020	8/26/2020	TriCor 4F Matrix Eptam	Admire Pro	
Springlake Texas (SPL)	I. Vales J. Koym, D. Scheuring	Pivot	89-29-29	Mechanical	3/26/2020	6/30/2020	7/6/2020	Boundary 6.5 EC Gly Star 5 Extra, Makaze Medal EC Stealth	Movento, Rimon 0.83EC Minecto Pro, Velum Prime Sivanto, SPE 120	Scala NUCOP Miravis Prime Headline
Dalhart Texas (DAL)	I. Vales J. Koym, D. Scheuring	Pivot	119-122-258	Reglone	5/9/2020	8/17/2020	9/3/2020	Eptam 7E Tricor 4F Mad Dog K6 Trifluralin 4 EC Reglone	Movento Beleaf 50 SG Reaper ClearForm Fulfill	Manzate Max Echo 720

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Table 2. Description of Clones - 2020 Western Regional Red/Specialty Trial

Clone/Variety	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Flesh Color	Entered			DISPO
	Female	Male							By	Seed	Year	
Red/White Flesh												
1 Chieftain	LA1354	LA1027-18	Purple	Medium	Medium	Round	Dark Red	White	Check	OR	***	CHECK
2 Red LaSoda	Triumph	Katahdin	Red-purple	Medium	Medium	Oval	Lt. Red	White	Check	OR	***	CHECK
3 Modoc	ND1196-2R	ND2225-1R	Purple	Medium	Medium	Round	Dark Red	White	Check	OR/ID	***	CHECK
4 A08112-7R	A99331-2RY	COA01406-1R	Dk Red-Purple	Medium	Med-early	Round	Red	White	ID	OR	2	RTRN
Red-Purple/Yellow Flesh												
5 ATX06264s-4R/Y	A99331-2RY	Durango Red	Purple	Medium	Late	Round	Red	Yellow	TX	CO	2	RTRN
Yellow Flesh												
6 Yukon Gold	Norgleam	W5279-4	Pink	Medium	Early	Oval	White	Yellow	Check	OR	***	CHECK
7 CO10064-1W/Y	CO00412-5W/Y	CO04099-4W/Y	Purple	Large	Medium	Round	White	Yellow	CO	CO	2	RTRN
8 CO10098-5W/Y	CO04099-3W/Y	CO04099-4W/Y	Red-purple	Medium	Medium	Round	White	Yellow	CO	CO	2	RTRN
9 CO11250-1W/Y	CO99045-1W/Y	POR02PG26-5	Purple	Large	Med-Late	Oval	White	Yellow	CO	CO	1	
10 CO11266-1W/Y	CO03060-2W/Y	A99433-5Y	Dark Purple	Medium	Late	Oval	White	Yellow	CO	CO	1	
11 POR14PG22-3	POR10PG3-3	2xOR2012	White	Large	Early-Med	round/bab	White/Buff	Yellow	OR	OR	2	RTRN
Fingerling												
12 La Ratte	?	?		Med-Larg	Medium	Finger	Yellow	Yellow	Check	OR	***	CHECK
13 PORTX03PG25-2R/R	PA97B35-1	PA99P7-2	Lt Red-purple	Medium	Medium	Finger	Red	Red	TX	CO	2	

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Table 3. Percent Stand

Entry	Clone/Variety	Percent Stand					Mean
		CA TUL	CO SLV	ID AB	TX SPL	TX DAL	
Red/White Flesh							
1	Chieftain	97	99	98	100	67	92
2	Red LaSoda	94	100	100	100	99	99
3	Modoc	83	95	99	16	23	63
4	A08112-7R	92	99	99	98	100	98
Red-Purple/Yellow Flesh							
5	ATX06264s-4R/Y	85	86	97	94	100	92
Yellow Flesh							
6	Yukon Gold	94	94	99	81	97	93
7	CO10064-1W/Y	97	97	99	100	99	98
8	CO10098-5W/Y	97	99	98	100	100	99
9	CO11250-1W/Y	98	100	100	100	100	100
10	CO11266-1W/Y	98	100	100	100	100	100
11	POR14PG22-3	99	88	99	95	100	96
Fingerling							
12	La Ratte	97	100				99
13	PORTX03PG25-2R/R	97	92	99	100	53	88
Mean							
		94	96	99	90	86	94

Table 4. Vine Size and Vine Maturity

Entry Clone/Variety	Vine Size (1-5 large)					Vine Maturity (1-5 late)					
	CO	ID	TX	TX		CO	ID	TX	TX		
	SLV	AB	SPL	DAL	Mean	SLV	AB	SPL	DAL	Mean	
Red/White Flesh											
1	Chieftain	3.0	2.0	3.7	3.3	3.0	3.0	4.0	3.7	4.0	3.7
2	Red LaSoda	3.5	1.5	4.1	3.3	3.1	3.0	3.6	4.6	5.0	4.0
3	Modoc	2.0	1.5	2.3	3.0	2.2	1.0	3.1	4.5	5.0	3.4
4	A08112-7R	3.0	2.0	3.9	3.3	3.1	3.3	3.9	4.9	3.7	3.9
Red-Purple/Yellow Flesh											
5	ATX06264s-4R/Y	3.0	1.5	3.8	3.3	2.9	2.3	3.1	5.0	2.5	3.2
Yellow Flesh											
6	Yukon Gold	2.8	2.0	3.6	3.3	2.9	2.0	3.5	3.0	4.5	3.3
7	CO10064-1W/Y	4.0	2.0	4.0	3.3	3.3	3.0	4.0	5.0	5.0	4.3
8	CO10098-5W/Y	3.3	1.8	4.1	3.2	3.1	2.3	3.1	3.5	5.0	3.5
9	CO11250-1W/Y	3.8	2.3	3.9	3.2	3.3	3.0	4.1	4.8	4.0	4.0
10	CO11266-1W/Y	3.8	2.3	3.7	3.0	3.2	4.0	4.3	4.3	5.0	4.4
11	POR14PG22-3	4.0	2.0	3.6	3.2	3.2	2.8	3.5	5.0	5.0	4.1
Fingerling											
12	La Ratte	4.0				4.0	3.0				3.0
13	PORTX03PG25-2R/R	3.3	2.0	3.2	2.8	2.8	2.3	2.8	4.8	5.0	3.7
Mean		3.3	1.9	3.7	3.2	3.1	2.7	3.6	4.4	4.5	3.7

Table 5. Total Yield

Entry Clone/Variety	Total Yield (cwt/a)						Mean	Rank
	OR ON	CA TUL	CO SLV	ID AB	TX SPL	TX DAL		
Red/White Flesh								
1 Chieftain	808	658	352	467	288	340	485	2
2 Red LaSoda	875	642	474	523	401	483	566	1
3 Modoc	349	426	277	391	39	162	274	4
4 A08112-7R		413	383	401	270	361	365	3
Red-Purple/Yellow Flesh								
5 ATX06264s-4R/Y	675	520	283	519	304	401	450	1
Yellow Flesh								
6 Yukon Gold	455	528	270	378	181	398	368	5
7 CO10064-1W/Y	678	449	331	404	232	315	401	4
8 CO10098-5W/Y	437	394	235	297	273	235	312	6
9 CO11250-1W/Y	852	522	414	490	264	433	496	1
10 CO11266-1W/Y	712	471	347	454	263	347	432	2
11 POR14PG22-3	658	586	385	450	121	341	424	3
Fingerling								
12 La Ratte	521	280	311				371	1
13 PORTX03PG25-2R/R	377	404	225	303	201	127	273	2
Mean	616	484	330	423	237	328	401	

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Table 6. Yield and Percent < 4 oz

Entry	Clone/Variety	Yield < 4 oz (cwt/a)							Percent < 4 oz								
		OR ON	CA TUL	CO SLV ¹	ID AB	TX SPL	TX DAL	Mean	Rank	OR ON	CA TUL	CO SLV	ID AB	TX SPL	TX DAL	Mean	Rank
Red/White Flesh																	
1	Chieftain	82	38	40	47	62	88	60	3	10	6	11	10	21	26	14	3
2	Red LaSoda	36	32	51	47	60	67	49	4	4	5	11	9	15	14	10	4
3	Modoc	91	87	116	175	17	52	90	2	26	20	42	45	45	32	35	2
4	A08112-7R		194	262	237	258	303	251	1		47	68	59	95	84	71	1
Red-Purple/Yellow Flesh																	
5	ATX06264s-4R/Y	179	97	138	93	244	291	173	1	27	19	49	18	80	73	44	1
Yellow Flesh																	
6	Yukon Gold	63	27	31	36	56	80	49	6	14	5	11	10	31	20	15	6
7	CO10064-1W/Y	251	128	141	201	195	289	201	4	37	29	43	50	84	92	56	4
8	CO10098-5W/Y	255	144	189	223	258	179	208	3	58	36	80	75	95	76	70	2
9	CO11250-1W/Y	214	143	158	159	186	320	197	5	25	27	38	32	70	74	45	5
10	CO11266-1W/Y	348	178	176	224	243	320	248	2	49	38	51	49	92	92	62	3
11	POR14PG22-3	440	256	314	257	115	331	286	1	67	44	81	57	95	97	74	1
Fingerling																	
12	La Ratte	352		17				184	1	68	0	5				24	2
13	PORTX03PG25-2R/R	197	151	50	217	0	95	118	2	52	37	22	72	0	75	43	1
Mean		209	123	129	160	141	201	163		36	24	39	40	60	63	43	

¹ 4-6 inch for fingerling

Table 7. Yield and Percent 4-6 oz.

Entry Clone/Variety		Yield 4-6 oz (cwt/a)							Percent 4-6 oz (%)						
		OR ON	CA TUL	ID AB	TX SPL	TX DAL	Mean	Rank	OR ON	CA TUL	ID AB	TX SPL	TX DAL	Mean	Rank
Red/White Flesh															
1	Chieftain	93	78	87	73	95	85	1	12	12	19	25	28	19	3
2	Red LaSoda	42	49	63	85	78	63	4	5	8	12	21	16	12	4
3	Modoc	85	92	125	13	52	74	3	24	22	32	34	32	29	1
4	A08112-7R		113	125	11	52	75	2		27	31	4	15	19	2
Red-Purple/Yellow Flesh															
5	ATX06264s-4R/Y	162	108	106	33	70	96	1	24	21	20	11	17	19	1
Yellow Flesh															
6	Yukon Gold	66	56	53	48	88	62	6	15	11	14	27	22	18	4
7	CO10064-1W/Y	216	120	143	31	19	106	3	32	27	35	14	6	23	2
8	CO10098-5W/Y	121	111	60	11	15	64	5	28	28	20	4	7	17	5
9	CO11250-1W/Y	224	128	168	54	76	130	1	26	25	34	20	18	25	1
10	CO11266-1W/Y	208	144	148	17	25	108	2	29	31	32	7	7	21	3
11	POR14PG22-3	113	151	104	6	10	77	4	17	26	23	5	3	15	6
Fingerling															
12	La Ratte	76					76	2	14	0				7	2
13	PORTX03PG25-2R/R	111	128	68	145	25	95	1	29	32	23	72	20	35	1
Mean		126	107	104	44	50	85		21	21	25	20	16	20	

Table 8. Yield and Percent 6-10 oz.

Entry Clone/Variety		Yield 6-10 oz (cwt/a)□						Percent 6-10 oz (%)							
		OR ON	CA TUL	ID AB	TX SPL	TX DAL	Mean Rank	OR ON	CA TUL	ID AB	TX SPL	TX DAL	Mean Rank		
Red/White Flesh															
1	Chieftain	217	239	177	103	84	164	1	27	36	38	36	25	32	1
2	Red LaSoda	140	158	160	191	158	161	2	16	25	31	48	33	30	2
3	Modoc	103	126	77	7	34	69	3	29	30	20	17	21	23	3
4	A08112-7R		43	35	0	4	20	4		10	9	0	1	5	4
Red-Purple/Yellow Flesh															
5	ATX06264s-4R/Y	207	190	188	14	35	127	1	31	37	36	5	9	23	1
Yellow Flesh															
6	Yukon Gold	135	154	141	62	96	118	2	30	29	37	35	24	31	1
7	CO10064-1W/Y	172	127	54	3	0	71	3	25	28	13	1	0	14	3
8	CO10098-5W/Y	40	71	8	0	0	24	6	9	18	3	0	0	6	6
9	CO11250-1W/Y	282	144	134	25	27	122	1	33	28	27	9	6	21	2
10	CO11266-1W/Y	122	92	70	0	0	57	4	17	20	15	0	0	10	4
11	POR14PG22-3	54	70	69	0	0	38	5	8	12	15	0	0	7	5
Fingerling															
12	La Ratte	30					30	1	6	0				3	2
13	PORTX03PG25-2R/R	49	75	11	8	0	29	2	13	19	4	4	0	8	1
Mean		129	124	94	34	36	79		20	22	21	13	10	16	

Table 9. Yield and Percent >10 oz.

Entry	Clone/Variety	Yield >10 oz (cwt/a)								Percent >10 oz (%)							
		OR	CA	CO	ID	TX	TX			OR	CA	CO	ID	TX	TX		
		ON	TUL	SLV ¹	AB	SPL	DAL	Mean	Rank	ON	TUL	SLV	AB	SPL	DAL	Mean	Rank
Red/White Flesh																	
1	Chieftain	367	257	100	141	47	70	164	2	45	39	29	30	16	21	30	2
2	Red LaSoda	552	261	151	226	66	152	235	1	63	41	32	43	16	32	38	1
3	Modoc	57	79	6	11	0	22	29	3	16	18	2	3	0	14	9	3
4	A08112-7R		6	3	0	0	0	2	4		2	1	0	0	0	0	4
Red-Purple/Yellow Flesh																	
5	ATX06264s-4R/Y	104	83	13	120	0	0	53	1	15	16	5	23	0	0	10	1
Yellow Flesh																	
6	Yukon Gold	182	253	115	138	11	88	131	1	40	48	43	36	6	22	33	1
7	CO10064-1W/Y	31	34	15	5	0	0	14	3	5	8	5	1	0	0	3	3
8	CO10098-5W/Y	0	17	0	0	0	0	3	6	0	4	0	0	0	0	1	6
9	CO11250-1W/Y	96	55	10	17	0	6	31	2	11	11	2	3	0	1	5	2
10	CO11266-1W/Y	18	9	10	11	0	0	8	5	2	2	3	3	0	0	2	5
11	POR14PG22-3	38	16	0	15	0	0	12	4	6	3	0	3	0	0	2	4
Fingerling																	
12	La Ratte	2		85				0	29	1	0	0	27			9	1
13	PORTX03PG25-2R/R	2	10	6	0	46	0	11	2	1	2	3	0	23	0	5	2
Mean		121	90	40	57	14	26	55		17	15	12	12	5	7	11	

¹ > 6 inch for fingerling

Table 10. Yield and Percent 4 -10 oz.

Entry	Clone/Variety	Yield 4-10 oz (cwt/a)								Percent 4-10 oz (%)							
		OR	CA	CO	ID	TX	TX	Mean	Rank	OR	CA	CO	ID	TX	TX	Mean	Rank
		ON	TUL	SLV	AB	SPL	DAL			ON	TUL	SLV	AB	SPL	DAL		
Red/White Flesh																	
1	Chieftain	309	317	208	264	176	178	242	1	38	48	59	57	61	52	53	2
2	Red LaSoda	182	207	254	223	276	236	230	2	21	32	54	43	69	49	44	3
3	Modoc	188	219	152	202	20	86	145	3	54	51	55	52	51	53	53	1
4	A08112-7R		156	113	160	11	56	99	4		38	29	40	4	16	25	4
Red-Purple/Yellow Flesh																	
5	ATX06264s-4R/Y	369	299	131	294	47	105	207	1	55	57	46	57	16	26	43	1
Yellow Flesh																	
6	Yukon Gold	202	210	121	194	110	184	170	3	44	40	45	51	61	46	48	1
7	CO10064-1W/Y	388	247	171	196	34	19	176	2	57	55	52	49	15	6	39	3
8	CO10098-5W/Y	161	182	46	68	11	15	81	6	37	46	20	23	4	7	23	5
9	CO11250-1W/Y	506	272	238	302	78	103	250	1	59	52	57	62	30	24	47	2
10	CO11266-1W/Y	329	236	156	217	17	25	163	4	46	50	45	48	7	7	34	4
11	POR14PG22-3	167	220	69	173	6	10	108	5	25	38	18	38	5	3	21	6
Fingerling																	
12	La Ratte	105		164				135	1	20	0	53				24	2
13	PORTX03PG25-2R/R	159	203	165	80	153	25	131	2	42	50	73	26	76	20	48	1
Mean		255	231	153	198	78	87	164		42	43	47	45	33	26	39	

¹ 4-6 inch for fingerling

Table 11. Yield and Percent Culls

Entry	Clone/Variety	Yield Culls (cwt/a)								Percent Culls (%)							
		OR ¹	CA	CO	ID	TX	TX			OR	CA	CO	ID	TX	TX		
		ON	TUL	SLV	AB	SPL	DAL	Mean	Rank	ON	TUL	SLV	AB	SPL	DAL	Mean	Rank
Red/White Flesh																	
1	Chieftain	49	42	3	14	4	4	19	2	6	6	1	3	1	1	3	2
2	Red LaSoda	105	140	18	28	0	27	53	1	12	22	4	5	0	6	8	1
3	Modoc	13	30	3	2	2	2	9	3	4	7	1	1	4	1	3	3
4	A08112-7R		6	5	4	2	1	4	4		1	1	1	1	0	1	4
Red-Purple/Yellow Flesh																	
5	ATX06264s-4R/Y	23	22	1	13	13	5	13	1	3	4	0	2	4	1	3	1
Yellow Flesh																	
6	Yukon Gold	9	35	3	10	3	45	17	1	2	7	1	3	2	11	4	2
7	CO10064-1W/Y	7	19	4	2	3	7	7	4	1	4	1	0	1	2	2	4
8	CO10098-5W/Y	21	19	0	6	4	40	15	3	5	5	0	2	1	17	5	1
9	CO11250-1W/Y	36	28	8	13	0	5	15	2	4	5	2	3	0	1	3	3
10	CO11266-1W/Y	17	11	5	2	4	2	7	5	2	2	1	0	1	0	1	5
11	POR14PG22-3	13	18	2	5	0	0	6	6	2	3	1	1	0	0	1	6
Fingerling																	
12	La Ratte	62	21	37				40	1	12	7	12				10	1
13	PORTX03PG25-2R/R	19	18	4	6	1	7	9	2	5	4	2	2	1	5	3	2
Mean		31	31	7	9	3	12	16		5	6	2	2	1	4	4	

¹spouted tubers were graded as culls

Table 12. Specific Gravity

Entry	Clone/Variety	Specific Gravity						Mean	Rank
		OR ON	CA TUL	CO SLV	ID AB	TX SPL	TX DAL		
Red/White Flesh									
1	Chieftain	1.068	1.079	1.082	1.072	1.063	1.062	1.071	3
2	Red LaSoda	1.068	1.083	1.090	1.075	1.063	1.059	1.073	2
3	Modoc	1.061	1.078	1.075	1.074	1.061	1.059	1.068	4
4	A08112-7R		1.089	1.092	1.077	1.060	1.066	1.077	1
Red-Purple/Yellow Flesh									
5	ATX06264s-4R/Y	1.074	1.080	1.083	1.076	1.061	1.063	1.073	1
Yellow Flesh									
6	Yukon Gold	1.080	1.092	1.089	1.094	1.073	1.071	1.083	4
7	CO10064-1W/Y	1.103	1.099	1.097	1.093	1.074	1.082	1.091	2
8	CO10098-5W/Y	1.101	1.103	1.105	1.097	1.083	1.090	1.097	1
9	CO11250-1W/Y	1.099	1.095	1.098	1.087	1.072	1.078	1.088	3
10	CO11266-1W/Y	1.083	1.092	1.093	1.079	1.067	1.067	1.080	5
11	POR14PG22-3	1.079	1.085	1.087	1.079	1.062	1.065	1.076	6
Fingerling									
12	La Ratte	1.089	1.084	1.083				1.085	1
13	PORTX03PG25-2R/R	1.059	1.080	1.078	1.071	1.063	1.055	1.068	2
Mean		1.080	1.088	1.089	1.081	1.067	1.068	1.079	

Table 13. Average Tuber Size and Tubers Per Plant

Entry	Clone/Variety	Average Tuber Size oz.					Tubers/plant					
		CA	ID	TX	TX		OR	CA	ID	TX	TX	
		TUL	AB	SPL	DAL	Mean	ON	TUL	AB	SPL	DAL	Mean
Red/White Flesh												
1	Chieftain	12.2	6.6	4.2	5.7	7	10	8	7	6	8	8
2	Red LaSoda	14.2	7.4	4.7	7.0	8	7	7	7	7	5	7
3	Modoc	7.5	3.7	3.1	5.0	5	7	10	10	7	10	9
4	A08112-7R	4.3	3.0	1.3	2.4	3		15	12	17	11	14
Red-Purple/Yellow Flesh												
5	ATX06264s-4R/Y	7.5	5.6	1.6	2.9	4	13	12	9	16	10	12
Yellow Flesh												
6	Yukon Gold	12.6	7.0	3.6	6.2	7	6	6	5	5	5	5
7	CO10064-1W/Y	5.9	3.4	2.1	2.4	3	15	11	11	10	10	11
8	CO10098-5W/Y	5.2	2.5	1.7	2.6	3	14	11	11	14	7	11
9	CO11250-1W/Y	6.4	4.2	2.7	3.3	4	16	12	11	8	10	11
10	CO11266-1W/Y	4.8	3.5	1.5	2.2	3	19	15	12	15	12	14
11	POR14PG22-3	4.3	3.0	0.6	2.3	3	26	20	14	16	11	17
Fingerling												
12	La Ratte	3.2				3	31	13				22
13	PORTX03PG25-2R/R	5.3	2.6	2.0	2.4	3	12	11	11	9	9	10
Mean		7.2	4.4	2.4	3.7	4	15	12	10	11	9	12

Table 14. Tuber Uniformity, Fresh Merit Score, Process Merit Score and Process Color

Entry	Clone/Variety	Tuber Uniformity (1-5 excellent)				Fresh Merit Score (1-5 best)								Process Merit	Process CO/SLV	
		OR	CA	ID	Mean	OR	CA	CO	ID	TX	TX	Mean	Rank	score (1-5 best)	fry color (4=darkest)	
		ON	TUL	AB		ON	TUL	SLV	AB	SPL	DAL			CO/SLV	Harvest	45°F
Red/White Flesh																
1	Chieftain	4.0	3.4	2.6	3.3	3.0	3.5	2.0	2.3	4.4	3.6	3.1	2.0	3.0	1.0	1.0
2	Red LaSoda	3.0	2.9	1.8	2.6	1.0	2.5	5.0	1.6	4.4	3.4	3.0	4.0	5.0	1.0	1.0
3	Modoc	4.0	3.6	4.0	3.9	4.5	3.5	1.0	3.6	2.0	3.7	3.0	3.0	1.0	1.0	1.0
4	A08112-7R		3.6	4.3			3.9	3.0	4.0	4.4	3.7	3.8	1.0	4.0	0.0	1.0
Red-Purple/Yellow Flesh																
5	ATX06264s-4R/Y	3.0	3.6	3.3	3.3	4.5	3.0	2.0	2.8	4.0	3.7	3.3	1.0	3.0	0.0	1.0
Yellow Flesh																
6	Yukon Gold	3.0	3.5	3.5	3.3	3.0	3.4	1.0	3.1	3.9	4.0	3.1	5.0	2.0	1.0	1.0
7	CO10064-1W/Y	3.0	3.4	3.9	3.4	3.5	3.3	3.0	3.8	3.7	3.7	3.5	3.0	5.0	0.0	0.0
8	CO10098-5W/Y	3.0	3.3	4.0	3.4	2.5	2.6	1.0	3.9	3.7	3.4	2.8	6.0	3.0	0.0	0.0
9	CO11250-1W/Y	3.0	3.5	3.5	3.3	4.0	2.3	5.0	3.8	3.6	3.6	3.7	1.0	5.0	0.0	0.0
10	CO11266-1W/Y	3.0	2.9	4.0	3.3	3.0	2.1	4.0	4.0	3.6	3.6	3.4	4.0	5.0	1.0	0.0
11	POR14PG22-3	3.0	3.1	2.1	2.7	5.0	2.8	4.0	2.0	3.5	3.8	3.5	2.0	5.0	0.0	1.0
Fingerling																
12	La Ratte	4.0	3.9		4.0	3.5	4.0	4.0				3.8	1.0		1.0	2.0
13	PORTX03PG25-2R/R	3.0	4.0	2.3	3.1	4.0	2.5	2.0	1.9	3.9	3.7	3.0	2.0		NA	NA
Mean		3.3	3.4	3.3	3.3	3.5	3.0	2.8	3.1	3.7	3.7	3.3	2.7	3.7	0.5	0.8

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Table 15. Tuber Shape and Length Width Ratio

Entry	Clone/Variety	Tuber Shape							L/W							W/T ¹						
		OR	CA	CO	ID	TX	TX		OR	CA	CO	ID	TX	TX		OR	CA	CO	ID	TX	TX	
		ON	TUL	SLV	AB	SPL	DAL	Mean	ON	TUL	SLV	AB	SPL	DAL	Mean	ON	TUL	SLV	AB	SPL	DAL	Mean
Red/White Flesh																						
1	Chieftain	2.0	2.9	2.0	2.0	2.0	2.4	2.2	1.16	1.21	1.19	1.12	1.22	1.12	1.17	1.53	1.25	1.35	1.21	1.18	1.24	1.30
2	Red LaSoda	2.0	2.8	1.0	1.9	1.5	2.7	2.0	1.09	1.12	1.01	1.07	1.19	1.06	1.09	1.36	1.26	1.48	1.30	1.15	1.24	1.30
3	Modoc	1.0	2.9	1.0	1.4	2.0	2.3	1.8	1.18	1.28	1.13	1.19	1.13	1.20	1.19		1.17	1.19	1.15	1.13	1.06	1.14
4	A08112-7R		2.3	2.0	1.3	1.0	1.5	1.6		1.15	1.33	1.11	1.25	1.14	1.20		1.12	1.12	1.18	1.11	1.12	1.13
Red-Purple/Yellow Flesh																						
5	ATX06264s-4R/Y	1.0	2.0	1.0	1.4	1.0	1.0	1.2	1.14	1.04	1.05	1.02	1.10	1.05	1.07	1.59	1.31	1.33	1.27	1.20	1.28	1.33
Yellow Flesh																						
6	Yukon Gold	2.0	2.4	1.0	1.5	1.5	2.0	1.7	1.18	1.18	1.03	1.11	1.14	1.16	1.13	1.38	1.22	1.27	1.23	1.13	1.21	1.24
7	CO10064-1W/Y	2.0	2.4	1.0	1.5	1.0	1.0	1.5	1.14	1.08	1.07	1.10	1.08	1.10	1.10	1.46	1.31	1.35	1.26	1.15	1.22	1.29
8	CO10098-5W/Y	2.0	2.5	2.0	1.3	1.0	1.8	1.8	1.34	1.18	1.26	1.16	1.50	1.04	1.25	1.58	1.29	1.28	1.22	1.30	1.17	1.31
9	CO11250-1W/Y	3.0	3.8	2.0	1.9	1.9	2.0	2.4	1.37	1.38	1.17	1.05	1.38	1.24	1.26	1.50	1.25	1.24	1.46	1.10	1.15	1.29
10	CO11266-1W/Y	2.0	2.8	2.0	1.4	1.0	1.0	1.7	1.31	1.30	1.22	1.20	1.29	1.13	1.24	1.42	1.18	1.19	1.19	1.19	1.10	1.21
11	POR14PG22-3	2.0	2.9	2.0	1.4	1.0	1.0	1.7	1.15	1.21	1.30	1.22	1.22	1.02	1.19	1.49	1.24	1.20	1.20	1.11	1.10	1.22
Fingerling																						
12	La Ratte	5.0	5.0	5.0				5.0	2.83	2.67	3.45				2.98	1.37	1.07	1.10				1.18
13	PORTX03PG25-2R/R	5.0	5.0	5.0	4.5	4.5	5.0	4.8	2.68	2.12	2.65	1.89	2.77	1.80	2.32	1.37	1.07	1.08	1.09	1.04	1.04	1.12
Mean		2.4	3.1	2.1	1.8	1.6	2.0	2.3	1.46	1.38	1.45	1.19	1.36	1.17	1.40	1.46	1.21	1.25	1.23	1.15	1.16	1.23

¹Width/thickness ratio or width/depth ratio. This info might be good to tell us how round or flat a potato is looking at it from the end.

Table 16. Skin and Flesh Color

Entry	Clone/Variety	Skin Color (1 - 5 dark)						Flesh Color (1 - 5 dark)					
		CA	CO	ID	TX	TX		CA	CO	ID	TX	TX	
		TUL	SLV	AB	SPL	DAL	Mean	TUL	SLV	AB	SPL	DAL	Mean
Red/White Flesh													
1	Chieftain	1.5	2.0	3.0	2.5	3.3	2.5	1.6		1.0	1.0	1.0	1.2
2	Red LaSoda	1.6	2.0	3.0	3.0	3.5	2.6	1.9		1.0	1.0	1.0	1.2
3	Modoc	3.8	3.0	3.0	3.5	4.0	3.5	1.4		1.0	1.0	1.0	1.1
4	A08112-7R	3.4	3.0	3.0	4.0	4.1	3.5	1.6		1.0	1.5	1.0	1.3
Red-Purple/Yellow Flesh													
5	ATX06264s-4R/Y	3.6	5.0	4.0	4.0	4.2	4.2	3.6	4.0	2.0	3.0	4.0	3.3
Yellow Flesh													
6	Yukon Gold	1.3	1.0	3.0	1.5	1.7	1.7	2.4	2.0	3.0	3.0	3.3	2.7
7	CO10064-1W/Y	1.5	1.0	2.0	2.0	2.4	1.8	3.6	4.0	3.0	3.2	3.0	3.4
8	CO10098-5W/Y	2.6	1.0	3.0	2.0	2.3	2.2	4.5	5.0	4.0	4.0	4.8	4.5
9	CO11250-1W/Y	1.9	1.0	2.8	1.0	1.8	1.7	3.3	3.0	3.0	3.0	4.1	3.3
10	CO11266-1W/Y	2.0	1.0	3.0	2.0	2.5	2.1	4.0	4.0	4.0	2.7	4.4	3.8
11	POR14PG22-3	1.1	1.0	2.0	1.5	1.0	1.3	2.9	3.0	3.0	1.2	2.4	2.5
Fingerling													
12	La Ratte	1.0	1.0				1.0	3.0	3.0				3.0
13	PORTX03PG25-2R/R	4.5	5.0	4.0	4.5	4.5	4.5	4.6	4.0	4.0	4.0	4.2	4.2
Mean		2.3	2.1	3.0	2.6	2.9	2.5	3.0	3.6	2.5	2.4	2.9	2.7

Table 17. Eye Depth and External Defects

Entry	Clone/Variety	Eye Depth						Growth Cracks						Knobs						Shatter Bruise						Scab					
		OR ON	CA TUL	ID AB	TX SPL	TX DAL	Mean	OR ON	CA TUL ¹	CO SLV	ID AB	TX SPL	TX DAL	Mean	OR ON	CA TUL ¹	CO SLV	ID AB	TX SPL	TX DAL	Mean	OR ON	CA TUL ¹	TX SPL	TX DAL	Mean	OR ON	ID AB	TX SPL	TX DAL	Mean
Red/White Flesh																															
1	Chieftain	2.0	3.6	2.1	3.9	3.8	3.1	5.0	3.0	5.0	4.9	4.8	5.0	4.1	4.0	1.3	5.0	5.0	5.0	4.9	4.8	5.0	2.6	5.0	5.0	4.4	5.0	4.6	5.0	4.9	4.9
2	Red LaSoda	3.0	2.1	2.6	3.5	3.5	3.0	2.0	9.4	5.0	4.8	5.0	4.9	3.6	5.0	1.9	5.0	5.0	5.0	4.5	4.9	5.0	2.6	5.0	5.0	4.4	4.0	4.8	5.0	5.0	4.7
3	Modoc	4.0	4.0	3.9	4.5	4.5	4.2	5.0	1.2	5.0	5.0	5.0	5.0	4.2	5.0	4.4	5.0	5.0	5.0	5.0	5.0	5.0	2.5	5.0	5.0	4.4	5.0	4.6	5.0	4.9	4.9
4	A08112-7R		3.9	4.1	4.5	4.5	4.3		0.1	5.0	5.0	5.0	5.0	4.0		0.6	5.0	5.0	5.0	5.0	5.0		3.0	5.0	5.0	4.3		4.8	5.0	5.0	4.9
Red-Purple/Yellow Flesh																															
5	ATX06264s-4R/Y	4.0	3.5	2.9	4.5	4.0	3.8	5.0	0.4	4.0	5.0	5.0	5.0	4.0	5.0	1.6	5.0	5.0	5.0	4.9	5.0	5.0	3.1	5.0	5.0	4.5	5.0	4.6	5.0	4.9	4.9
Yellow Flesh																															
6	Yukon Gold	5.0	3.9	3.3	3.8	3.8	3.9	5.0	1.8	5.0	5.0	5.0	4.7	4.1	5.0	2.8	5.0	5.0	5.0	4.0	4.8	5.0	3.1	5.0	5.0	4.5	4.0	4.3	5.0	5.0	4.6
7	CO10064-1W/Y	5.0	3.5	3.5	4.0	4.0	4.0	5.0	0.0	5.0	5.0	5.0	5.0	4.2	5.0	0.6	5.0	5.0	5.0	4.7	4.9	5.0	3.3	5.0	5.0	4.6	5.0	4.6	5.0	5.0	4.9
8	CO10098-5W/Y	5.0	3.6	4.0	4.0	4.0	4.1	4.0	0.1	5.0	5.0	5.0	5.0	4.0	3.0	1.4	5.0	5.0	5.0	3.5	4.3	5.0	3.1	5.0	5.0	4.5	5.0	4.9	5.0	5.0	5.0
9	CO11250-1W/Y	4.0	4.0	4.0	3.8	4.0	4.0	5.0	0.4	5.0	5.0	5.0	5.0	4.2	4.0	2.1	5.0	5.0	5.0	4.8	4.8	5.0	3.5	5.0	5.0	4.6	5.0	4.6	5.0	4.9	4.9
10	CO11266-1W/Y	4.0	3.9	4.3	4.1	4.0	4.0	4.0	0.0	4.0	5.0	5.0	5.0	3.8	5.0	0.7	5.0	5.0	5.0	5.0	5.0	5.0	3.4	5.0	5.0	4.6	4.0	5.0	5.0	5.0	4.7
11	POR14PG22-3	3.0	3.4	2.9	4.5	3.8	3.5	5.0	0.0	4.0	5.0	5.0	5.0	4.0	5.0	0.9	5.0	5.0	5.0	5.0	5.0	5.0	3.5	5.0	5.0	4.6	5.0	5.0	5.0	5.0	5.0
Fingerling																															
12	La Ratte	4.0	4.0				4.0	5.0	0.0	5.0			3.3	4.0	3.8	4.0				4.0	5.0	4.0			4.5	5.0				5.0	
13	PORTX03PG25-2R/R	4.0	3.8	3.6	4.5	4.0	4.0	5.0	0.6	4.0	4.9	5.0	5.0	4.0	4.0	2.9	5.0	4.9	5.0	4.8	4.7	5.0	3.9	5.0	5.0	4.7	5.0	5.0	5.0	5.0	5.0
Mean		3.9	3.6	3.4	4.1	4.0	3.8	4.6	1.3	4.7	5.0	5.0	5.0	4.0	4.5	1.9	4.9	5.0	5.0	4.7	4.8	5.0		5.0	5.0	4.5	4.8	4.7	5.0	5.0	4.9

¹%

Table 18. Internal Defects

Entry	Clone/Variety	Hollow Heart							Internal Brownspot					Vacular Discoloration						Blackspot Bruise					
		OR	CA	CO	ID	TX	TX		OR	ID	TX	TX		OR	CA	ID	TX	TX		OR	CA	CO ²	TX	TX	
		ON	TUL	SLV	AB	SPL	DAL	Mean	ON	AB	SPL	DAL	Mean	ON	TUL	AB	SPL	DAL	Mean	ON	TUL%	SLV	SPL%	DAL%	Mean
Red/White Flesh																									
1	Chieftain	0	13	0	0	0	3	3	5	0	0	27	8	3	8	0	0	0	2	4	0	5	0	0	0
2	Red LaSoda	0	30	2	0	3	7	7	0	0	0	0	0	0	8	0	17	0	5	4	0	5	0	0	0
3	Modoc	0	3	0	0	0	0	1	0	0	0	0	0	3	5	0	0	0	2	4	0	5	0	0	0
4	A08112-7R		0	0	0	0	0		0	0	0				18	0	3	0			0	5	0	0	0
Red-Purple/Yellow Flesh																									
5	ATX06264s-4R/Y	0	0	0	1	0	0	0	3	0	0	0	1	0	3	0	7	0	2	4	0	5	0	3	1
Yellow Flesh																									
6	Yukon Gold	0	3	0	0	3	13	3	8	0	3	33	11	0	5	0	0	3	2	5	0	5	0	0	0
7	CO10064-1W/Y	0	0	0	0	0	0	0	5	0	0	23	7	25	3	0	3	0	6	4	1	5	0	0	0
8	CO10098-5W/Y	0	3	0	0	0	0	1	3	0	0	0	1	0	5	0	0	0	1	4	0	5	0	0	0
9	CO11250-1W/Y	0	0	0	0	0	0	0	0	0	0	3	1	0	5	0	7	0	2	4	0	5	0	3	1
10	CO11266-1W/Y	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	3	4	0	5	0	0	0
11	POR14PG22-3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0
Fingerling																									
12	La Ratte	0	0	0				0	3				3	0	10				5	4	0	4			0
13	PORTX03PG25-2R/R	0	0	0	0	0	0	0	10	0	0	0	3	10	13	0	0	0	5	4	0	5	0	0	0
Mean		0	4	0	0	1	2	1	3	0	0	7	3	3	7	0	3	0	3	4	0	5	0	1	0

¹ Percent based on 10 cut tubers.

² 1 to 5=none

Table 19. Disease Evaluations, Metribuzin Reaction

Entry Clone/Variety	Aberdeen			Tulelake		Prosser ⁵		
	Vert. Wilt/ Early Dying ¹ Foliar	Early Blight ¹ Foliar	Metr. Reaction ²	Rating ⁴	Vert. AUDPC ³	Corky Ringspot Evaluations		Designation
						Avg % w/int	Avg % DSI	
Red/White Flesh								
1 Chieftain	5	5	MR	6	580	74	59	S
2 Red LaSoda	5	5	MS	7	671	71	54	S
3 Modoc	4	5	MS	8	1133	51	36	S
4 A08112-7R	5	5	R	6	517			
Red-Purple/Yellow Flesh								
5 ATX06264s-4R/Y	5	4	MR	8	1021			
Yellow Flesh								
6 Yukon Gold	4	5	VR	8	1017	63	48	S
7 CO10064-1W/Y	5	5	R	6	505	47	37	S
8 CO10098-5W/Y	5	5	R	6	789	4	2	MR
9 CO11250-1W/Y	5	5	R	7	792	61	32	S
10 CO11266-1W/Y	5	5	R	5	263	33	15	S
11 POR14PG22-3	4	5	VR	6	564	38	21	S
Fingerling								
12 La Ratte				9	1422	38	15	S
13 PORTX03PG25-2R/R	5	4	VS	9	1324			
Mean	5	5		7	815	48	32	

¹ Evaluations made at Aberdeen, ID by Potato Variety Team; scale as indicated with lowest number being most severe. For 1 to 5 5=no symptoms; 1=90-100% dead or dying with typical disease symptoms.

² Metribuzin reaction measured at Aberdeen, ID. VR=very resistant, R=Resistant, MR=Moderately resistant, MS=moderately susceptible, S=susceptible VS=very susceptible

³ Area Under Disease Product Curve Based on reading taken 77, 83, 89, 96, 104 and 110 days from planting

⁴ 0 to 9=dead

⁵ were affected

Avg % DSI= Disease Severity Index (DSI) was calculated for each replication by summing the scores (S) of each tuber evaluated (T) and dividing that number by the number of tubers evaluated times the worst possible score (8) and multiplying by 100

$DSI = (\sum S)/(T*8)*100$

TRV Disease Rating Based on % DSI:

R = Extreme Resistance (0-1%); MR = Moderate Resistance (1.1-5%);

MS = Moderately Susceptible (5.1-10%); S = Susceptible (10.1+%)

Table 20. Tuber Composition

Entry	Clone/Variety	Aberdeen					Texas ⁵		
		Solids	Sugars		Protein ¹	Vitamin C ³	Glycoalkaloids ⁴	µg Trolox equivalents/gfw ⁶	AOA Levels ⁷
			Dextrose ²	Sucrose ²					
Red/White Flesh									
1	Chieftain	18.1	0.09	0.19	26.5	17.3	5.2	226.7	M
2	Red LaSoda	18.4	0.12	0.14	29.1	23.5	5.0	222.4	M
3	Modoc	19.1	0.04	0.10	25.6	26.5	3.4	182.4	M
4	A08112-7R	19.5	0.04	0.18	30.8	19.3	3.1	129.5	M
Red-Purple/Yellow Flesh									
5	ATX06264s-4R/Y	20.5	0.05	0.16	24.4	27.1	4.5	185.1	M
Yellow Flesh									
6	Yukon Gold	23.5	0.03	0.16	28.3	32.4	4.6	174.9	M
7	CO10064-1W/Y	23.6	0.01	0.11	25.8	17.3	7.2	119.4	L
8	CO10098-5W/Y	24.6	0.00	0.10	26.4	27.7	3.6	156.6	M
9	CO11250-1W/Y	22.5	0.03	0.16	26.1	26.3	2.8	138.4	M
10	CO11266-1W/Y	20.8	0.01	0.15	24.9	17.1	2.8	422.3	VH
11	POR14PG22-3	18.1	0.02	0.15	29.8	24.5	6.5	229.2	M
Fingerling									
12	La Ratte								
13	PORTX03PG25-2R/R	19.2	0.05	0.19	27.8	13.1	5.1	546.2	VH
Mean		20.7	0.04	0.15	27.1	22.7	4.5	227.7	

¹ % Dry Weight Basis

² % Fresh Weight Basis

³ % Fresh Weight Basis (mg/100g)

⁴ % Fresh Weight Basis (mg/100g), using Lenepe as check with reading of 20.59

⁵ The assay used at Texas A&M University was based on "Use of a Free Radical Method to Evaluate Antioxidant Activity" by Brand-Williams, et al. 1995, Levensm. Wiss. Technol. 28:25-30. Antioxidants soluble in methanol were extracted and allowed to react with the stable radical, 2,2-Diphenyl-1-picrylhydrazyl (DPPH). This provided a rapid evaluation of the antioxidant properties of the potato extracts based on absorbance.

⁶ µg Trolox equivalents/gfw - Absorbance was converted to trolox equivalents based on a standard curve using the following equation: $y = -.0033x + 1.1965$

⁷ VH=very high (>422), H=high (269-298), M=medium (255-138), L=low (135-90), VL=very low (<89). n=57 including nine check

Table 21. Entry Location Comments

Entry	Clone/Variety	Ontario, OR	Tulelake, CA	Center, CO	Aberdeen, ID
Red/White Flesh					
1	Chieftain	water rot, Oversized, oversize, growth cracks		Big	mps (2); not uniform, skinned, curves, few points,
2	Red LaSoda	3 Growth Cracks, growth cracks, folded bud end		Huge, rough	Deep eyes (4); not uniform (3); bumps, ugly (2)
3	Modoc	bottleneck		Good skin	Uniform (3); oval with few points (2)
4	A08112-7R			Nice skin, small tuber size	Uniform (3); round, few oval, little russeting
Red-Purple/Yellow Flesh					
5	ATX06264s-4R/Y	2 sprouts		Nice yellow flesh, powdery scab, sprouting at grad	ATS (4); bumps (3); flat (2)
Yellow Flesh					
6	Yukon Gold	2 growth cracks, water rot, ugly		Light yellow flesh	Big, flat, unifrom (2); deeper ends
7	CO10064-1W/Y	greening		Good yellow flesh	Flat (4); deep ends (3); uniform (2)
8	CO10098-5W/Y	4 sprouts		B size, dark yellow flesh	Uniform (3); small, round (2) good eye
9	CO11250-1W/Y			Good yellow flesh	ATS (4); pink eyes (3); flat (2)
10	CO11266-1W/Y	2 sprouts		Blushing red on skin, good yellow flesh, skin textnk eyes, uniform, some feathering (3); ATS, oval (
11	POR14PG22-3	sprouts		Rough, ok yellow flesh, deep eyes	Bumps (4); blocky (3); rot
Fingerling					
12	La Ratte			Powdery scab	
13	PORTX03PG25-2R/R	growth cracks		Dark pink flesh, deep eyes	Not uniform, points (3); slight checking

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Entry	Clone/Variety	Springlake, TX	Dalhart, TX
Red/White Flesh			
1	Chieftain	large tubers, high tuber number, BOT, nice skin color, uniform shape, uniform size, a little flat	large, IBS, large,
2	Red LaSoda	large tubers, deep eyes, high tuber number, nice skin color, nice, impressive high yield	big, a little flat, high tuber number, very large potatoes, deep eyes, deep bud end,
3	Modoc	very few tubers, intense skin	very few tubers, few eyes
4	A08112-7R	high tuber number, small, late?, very nice, small, uniform size and shape, heat sprouts,	variation in skin color, some tubers are more intense than others, few eyes, intense skin color, good shape,
Red-Purple/Yellow Flesh			
5	ATX06264s-4R/Y	small, some pointed, attached stolons, very nice skin color, high tuber number, intense skin color	nice skin, borderline tuber type (size, shape, color), some skin color variation between tubers, a little flat
Yellow Flesh			
6	Yukon Gold	medium size, nice	very large, lots of knobs, smooth skin, large, high yield
7	CO10064-1W/Y	small, pink eyes, high tuber number, small, uniform size	small, buff skin, 10% ZC, small
8	CO10098-5W/Y	small, high tuber number, uniform size and shape, heat sprouts	very intense yellow flesh
9	CO11250-1W/Y	medium size, pink eyes, oval, heat sprouts, skin road mapping, netted skin	pink eyes, buff skin, nice yellow flesh
10	CO11266-1W/Y	mall, high tuber number, pink eyes, some skin netting, light sprouts, some pointed, dislike skin, heat sprout	small, buff skin, pink eyes
11	POR14PG22-3	very small tubers, late?, heat sprouts, uniform size, flesh white and creamy mixed, high tuber number	very high tuber number, uniform size and shape, shiny, all smalls
Fingerling			
12	La Ratte		
13	PORTX03PG25-2R/R	intense red skin, uniform size and shape, unique shape, oblong to fingerling, BOT	fingerling

Table 23. Summary Means

Entry	Clone/Variety	Year	Yield Summary ¹							Quality		
			<4 oz.	4-6 oz.	6-10 oz.	4-10 oz.	>10 oz.	Culls	Total	Tuber Size oz./tuber	Spec. grav.	Fresh Merit ²
Red/White Flesh												
1	Chieftain	***	60	85	164	242	164	19	485	7.2	1.071	3.1
2	Red LaSoda	***	49	63	161	230	235	53	566	8.3	1.073	3.0
3	Modoc	***	90	74	69	145	29	9	274	4.8	1.068	3.0
4	A08112-7R	2	251	75	20	99	2	4	365	2.7	1.077	3.8
Red-Purple/Yellow Flesh												
5	ATX06264s-4R/Y	2	173	96	127	207	53	13	450	4.4	1.073	3.3
Yellow Flesh												
6	Yukon Gold	***	49	62	118	170	131	17	368	7.3	1.083	3.1
7	CO10064-1W/Y	2	201	106	71	176	14	7	401	3.4	1.091	3.5
8	CO10098-5W/Y	2	208	64	24	81	3	15	312	3.0	1.097	2.8
9	CO11250-1W/Y	1	197	130	122	250	31	15	496	4.1	1.088	3.7
10	CO11266-1W/Y	1	248	108	57	163	8	7	432	3.0	1.080	3.4
11	POR14PG22-3	2	286	77	38	108	12	6	424	2.6	1.076	3.5
Fingerling												
12	La Ratte	***	184	76	30	135	29	40	371	3.2	1.085	3.8
13	PORTX03PG25-2R/R	2	118	95	29	131	11	9	273	3.1	1.068	3.0
Mean			163	85	79	164	55	16	401	4	1	3

^{1/}Mean weight fractions do not equal total average because some locations do not take measurements for all criteria.

^{2/} Scale = 1-5 best

Table 24. Two Year Summary of Graduating Entries

Entry	Clone/Variety	Year	Yield Summary							Quality		
			<4 oz.	4-6 oz.	6-10 oz.	4-10 oz.	>10 oz.	Culls	Total	Tuber Size oz./tuber	Spec. grav.	Fresh Merit ¹
Red/White Flesh												
	Chieftain	***	87	99	167	260	131	15	495	6.1	1.071	3.4
	Red LaSoda	***	63	69	160	229	214	48	554	7.3	1.071	2.8
	A08112-7R	2	261	69	30	102	2	5	372	2.4	1.076	3.6
Red-Purple/Yellow Flesh												
	ATX06264s-4R/Y	2	185	102	112	204	38	12	440	3.5	1.072	3.2
Yellow Flesh												
	Yukon Gold	***	63	70	120	180	105	14	362	6.1	1.082	3.2
	CO10064-1W/Y	2	206	110	73	181	14	7	412	3.4	1.091	3.5
	CO10097-2W/Y	2	190	54	26	73	3	24	289	2.6	1.096	3.0
	POR14PG22-3	2	298	78	45	119	9	8	433	2.2	1.074	3.2
	PORTX03PG25-2R/R	2	142	66	18	103	9	11	268	2.6	1.067	2.8

^{1/} Scale = 1-5 best

Table 25. Two Year Summary of Notes

Entry	Clone/Variety	Strengths	Weakness
Red/White Flesh			
		nice skin color, uniform shape, high tuber number	compressed, deep eyes
	Chieftain	uniform, nice skin color, nice flesh color	flat, deep eyes
	Red LaSoda	Nice, small tuber size, good skin finish	
	A08112-7R		
Red-Purple/Yellow Flesh			
		dark red/purple skin color, high percentage of <4 oz	growth cracks
	ATX06264s-4R/Y		
Yellow Flesh			
			Light yellow, IBS
	Yukon Gold	good yellow	sprouts, chain, pink eyes, nonuniform skin type, small+
	CO10064-1W/Y	very intense yellow flesh	heat sprouts, extreme knobs
	CO10097-2W/Y	high tubers per plant, high <4 oz yield, very smooth skin	irregular
	POR14PG22-3		
	PORTX03PG25-2R/R	Dark pink flesh, fingerling, BOT+ for this class, intense red skin	deep eyes

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