

2000 Western Regional Red-skinned Potato Trial Table of Contents

Description of Clones 2000 Western Regional Red-skinned Trial	Page 1
Table 1 - Locations, Cooperators and Cultural Information	Page 2
Table 2 - Plot Information, Soil Type, Fungicides and Insecticides	Page 3
Table 3 - Herbicides, Fumigants, Vine Killing, Environmental Factors, Etc	Page 4
Table 4 - Percent Stand and Stems/Hill	Page 5
Table 5 - Vine Vigor and Vine Maturity	Page 6
Table 6 - Total Yield	Page 7
Table 7 - Yield and Percent U.S. No. 1s	Page 8
Table 8 - Yield and Percent Marketable (< 4 oz + 4-10 oz US No. 1s) (cwt/A + %)	Page 9
Table 9 - Yield and Percent Bs	Page 10
Table 10 - Yield and Percent U.S. No. 1s 4-6 oz	Page 11
Table 11 - Yield and Percent U.S. No. 1s 6-10 oz.....	Page 12
Table 12 - Yield and Percent U.S. No. 1s > 10 oz.....	Page 13
Table 13 - Yield and Percent Culls.....	Page 14
Table 14 - Specific Gravity.....	Page 15
Table 15 - Tuber Size and Shape.....	Page 16
Table 16 - Eye Depth and Skin Color.....	Page 17
Table 17 - Growth Cracks and Skinning.....	Page 18
Table 18 - Percent HH and BC.....	Page 19
Table 19 - Fresh Market Quality (Merit) Rating.....	Page 20
Table 20 - Miscellaneous Data on Tuber Quality.....	Page 21
Table 21 - Summary.....	Page 22
Table 22 - 3-Year Summary of Graduating Entries.....	Page 23

Description of Clones - 2000 Western Regional Red-skinned Trial

Clone/Variety	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Entered By	Use	Seed	Year
	Female	Male									
Dk. Red Norland	RedKote	ND626	Red-purple	Sm	Early	Oval	Dk. Red	Check	Fresh	OR	***
Red LaSoda	Triumph	Katahdin	Red-purple	Med	Med	Oval	Lt. Red	Check	Fresh	OR	***
Yukon Gold	Norgleam	W5279-4	Pink	Med	Early	Oval	White	Check	Fresh	OR	
CO89097-2	NDTX9-1068-11	DT6063-1R	Purple	Med/Lg	Med/Early	Oval	Red	CO	Fresh	CO	3
NDO4300-1R	ND1196-2R	ND2225-1R	Purple	Med	Med	Round	Dk. Red	OR	Fresh	OR	3
NDO4588-5R	Reddale	ND2050-1R	Purple	Med	Med	Oval	Dk. Red	OR	Fresh	OR	3
NDO4323-2R	1871-3	LA 12-59	Red-purple	Med	Med	Oval	Dk. Red	OR	Fresh	OR	1
A92657-1R	Mazama	NDO3503-2R	Red-purple	Med	Med	Round	Dk. Red	ID	Fresh	ID	1
TX1523-1Ru/Y	Krantz	Delta Gold	Yellow	Med	Med	Oblong	Russet	TX	Fresh	CO	1

Table 1. Locations, Cooperators and Cultural Information

Locations	Cooperators	Irrigation	Fertilization	Harvest method	Dates			Days to vine kill
					Plant	Vine kill	Harvest	
1. Kern Co. California (KRN)	R. Voss H. Phillips	Sprinkler	245-200-0	Machine	22-Feb	?	28-Jun	?
2. Tulelake California (TUL)	R. Voss, H. Phillips D. Kirby, H. Carlson	Sprinkler	160-20-0	Machine	10-May	29-Aug	14-Sep	111
3. San Luis Valley Colorado (SLV)	D. Holm, S. Thompson F. Popiel	Pivot	160-150-60	Machine	17-May	31-Aug	27-Sep	106
4. Kimberly Idaho (KMB)	S. Love M. Bain	Sprinkler	240-150-50-5-5	Machine	27-Apr	17-Aug	18-Aug	112
5. Klamath Falls Oregon (KLM)	K. Rykbost B. Charlton	Sprinkler	160-80-80-140	Machine	17-May	15-Sep	29-Sep	121
6. Corvallis Oregon (COR)	A. Mosley S. Yilma	Sprinkler	150-150-150-90	Hand	19-May	28-Aug	15-Sep	101
7. Springlake Texas (SPR)	C. Miller, J. Koym D. Scheuring	Pivot	160-33-63	Hand	11-Mar	3-Jul	16-Jul	114
8. Dalhart Texas (DLT)	C. Miller, J. Koym D. Scheuring	Pivot	305-0-0	Hand	18-May	28-Aug	10-Sep	102
9. Granger Washington (GR)	R. Thornton, G. Newberry, R. Knowles, N. Fuller	Furrow	200-100-80	Machine	22-Mar	8-Jul	2-Aug	108

Table 2. Plot Information, Soil Type, Fungicides and Insecticides

Item	CA		CO	ID	OR		TX		WA
	KRN	TUL	SLV	KMB	KLM	COR	SPR	DLT	GR
Plot Information:									
Row/plot	1	1	1	1	1	1	1	1	1
Length of plot (ft)	20	20	25	20	22	25	20	20	20
Hill spacing (in)	9	9	12	10	8.7	9	9	9	10
Row spacing (in)	32	36	34	36	32	34	36	36	34
Hills/plot	27	27	25	24	30	33	27	27	25
Number of reps	4	4	4	4	4	4	4	4	4
Soil Type:									
Fine sand								X	
Fine sandy loam					X				
Loamy fine sand								X	
Sandy loam	X		X	X		X			X
Silt loam									
Organic - 8%		X							
Fungicides:									
Bravo 720		X			X	X			
Bravo Wthr. Stk.	X		X	X					
Bravo Ultrex			X						
Curzate		X							
Ridomil MZ					X			X	
Mancozeb									
Tops MZ					X		X		
Quadris			X			X		X	
Kocide		X			X				
Dithane		X	X		X	X			
Champ									
Maxim								X	
SuperTin			X					X	
Tattoo C									
Insecticides:									
Admire/Provado				X		X	X	X	
Asana			X					X	
Baythroid								X	
Thiodan			X						
DiSyston					X	X			
Ambush									X
Monitor					X				
Pounce		X							
Fulfil			X	X					

Table 3. Herbicides, Fumigants, Vine Killing, Environmental Factors, Etc.

Item	CA		CO	ID	OR		TX		WA
	KRN	TUL	SLV	KMB	KLM	COR	SPR	DLT	GR
Herbicides:									
Dual			X		X				
Eptam	X			X					X
Lexone		X	X	X			X	X	
Matrix		X		X	X	X		X	
Roundup							X		
Poast			X					X	
Prowl	X				X	X	X	X	X
Trilin									X
Trifluralin									
Fumigant:									
Telone II					X				
Vapam									
Vine Killing:									
Diquat		X			X	X			X
Sulfuric Acid			X						
Mechanical									
Environmental Factors:									
Cool/Dry Summer	X								
Frost									
Favorable		X			X		X		
Hot Summer				X					
Below Avg. Precip.								X	
Comments:									
Poor Vine Kill									
Virus					X	X			
Heavy Psyllid Pressure							X		
Wet Harvest									

Table 4. Percent Stand and Stems/Hill

Clone	Percent Stand									Stems/Hill					
	CA		CO	ID	OR	TX		WA	Mean	CO	ID	WA	TX		Mean
	KRN	TUL	SLV	KMB	KLM	SPR	DLT	GR		SLV	KMB	GR	SPR	DLT	
Dk. Red Norland	79	85	98	93	99	99	100	100	94	2.7	2.4	3.2	1.4	1.7	2.4
Red LaSoda	100	83	95	75	98	93	98	99	93	2.3	1.3	2.8	1.4	1.9	2.0
Yukon Gold	93	89	94	74	93	88	97	97	91	2.0	1.0	2.0	1.7	1.6	1.7
CO89097-2	90	86	95	86	96	96	96	96	93	2.3	1.6	2.4	2.1	1.4	2.1
NDO4300-1R	72	69	---	90	92	90	100	99	87	---	2.2	2.5	2.7	1.3	2.5
NDO4588-5R	90	71	---	96	94	96	100	99	92	---	2.0	2.6	1.6	1.3	2.1
NDO4323-2R	95	90	---	91	100	97	100	100	96	---	2.5	3.9	2.5	1.4	3.0
A92657-1R	69	48	---	84	88	95	97	98	83	---	2.2	2.4	2.2	1.3	2.3
TX1523-1Ru/Y	89	---	96	94	97	99	96	100	96	2.1	2.1	2.6	1.5	1.2	2.1
Mean	86	78	96	87	95	95	98	99	92	2.3	1.9	2.7	1.9	1.5	2.2

Table 5. Vine Vigor and Vine Maturity

Clone	Vine Size									Vine Maturity								
	CA		CO	ID	OR	TX		WA	Mean	CA		CO	ID	OR	TX		WA	Mean
	KRN	TUL	SLV	KMB	KLM	SPR	DLT	GR		KRN	TUL	SLV	KMB	KLM	SPR	DLT	GR	
Dk. Red Norland	3.7	3.8	2.3	1.8	4.0	3.0	3.1	2.0	3.0	3.0	2.0	1.3	2.0	2.8	2.6	2.9	---	2.4
Red LaSoda	3.5	4.5	3.8	2.0	2.5	3.1	3.5	2.0	3.1	3.0	2.5	3.0	2.3	3.0	3.4	3.4	---	2.9
Yukon Gold	4.0	3.3	3.0	2.0	3.0	3.3	3.0	---	3.1	2.0	---	1.8	2.8	2.8	3.1	2.5	---	2.5
CO89097-2	3.5	4.5	3.0	2.0	2.3	4.0	4.4	2.0	3.2	3.0	2.8	3.0	3.5	3.0	3.0	3.9	---	3.2
NDO4300-1R	3.0	3.5	---	1.0	1.8	2.8	2.5	1.0	2.2	2.0	2.0	---	1.3	3.0	3.0	2.3	---	2.3
NDO4588-5R	3.7	3.5	---	1.0	3.3	3.2	2.4	2.0	2.7	3.0	2.0	---	3.0	2.8	1.6	1.4	---	2.3
NDO4323-2R	3.8	4.0	---	1.3	3.0	2.8	2.8	2.0	2.8	3.0	2.5	---	3.0	4.0	2.8	1.8	---	2.9
A92657-1R	2.3	3.0	---	2.0	2.0	3.2	4.1	2.0	2.7	2.5	2.0	---	3.5	3.0	3.3	4.1	---	3.1
TX1523-1Ru/Y	4.5	---	3.0	1.0	5.0	3.2	4.0	---	3.5	3.0	---	2.0	1.5	2.5	3.4	4.0	---	2.7
Mean	3.6	3.8	3.0	1.6	3.0	3.2	3.3	1.9	2.9	2.7	2.3	2.2	2.5	3.0	2.9	2.9	---	2.7

Table 6. Total Yield

Clone	Total Yield (cwt/A)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	DLT	GR	
Dk. Red Norland	374	604	419	429	707	458	327	307	499	458
Red LaSoda	415	719	493	279	591	431	305	247	393	430
Yukon Gold	334	406	361	250	610	351	342	358	379	377
CO89097-2	324	543	458	363	651	480	361	364	448	444
NDO4300-1R	268	449	---	351	564	357	383	177	477	378
NDO4588-5R	370	441	---	444	596	450	303	289	492	423
NDO4323-2R	315	606	---	382	728	409	306	230	428	426
A92657-1R	242	358	---	426	633	459	285	---	499	415
TX1523-1Ru/Y	250	---	359	338	688	435	352	200	490	389
Mean	321	516	418	362	641	426	329	272	456	415

Table 7. Yield and Percent U.S. No. 1s

Clone	Total Yield U.S. NO. 1S > 4 OZ (CWT/A & %)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	DLT	GR	
Dark Red Norland	358	552	378	389	628	344	232	170	419	386
	96	91	90	91	89	75	71	55	84	82
Red LaSoda	385	601	438	237	434	222	238	187	266	334
	93	83	89	85	73	52	78	76	68	77
Yukon Gold	315	368	322	216	568	281	256	239	325	321
	94	90	89	86	93	80	75	67	86	84
CO89097-2	291	499	391	300	566	374	265	204	390	364
	89	92	85	83	87	78	73	56	87	81
NDO4300-1R	244	414	---	258	467	283	252	49	433	300
	91	92	---	74	83	79	66	28	91	76
NDO4588-5R	348	405	---	405	505	318	191	178	431	348
	94	92	---	91	85	71	63	62	88	81
NDO4323-2R	276	497	---	294	486	283	166	76	332	301
	88	82	---	77	67	69	54	33	78	69
A92657-1R	212	338	---	376	551	365	220	---	442	358
	86	94	---	88	87	80	77	---	88	86
TX1523-1Ru/Y	225	---	329	300	668	335	251	113	421	330
	90	---	92	89	97	77	71	56	86	82
Mean	295	459	372	308	541	312	230	152	384	338
	91	90	89	85	85	73	70	54	84	80

Table 8. Yield and Percent Marketable (<4 oz + 4-10 oz US No. 1's) (cwt/A + %)

Clone	Total Yield U.S. NO. 1s (<4 oz - 10 oz)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	DLT	GR	
Dark Red Norland	341	414	273	254	345	222	280	238	212	287
	91	69	65	59	49	48	86	78	42	65
Red LaSoda	309	355	216	83	221	142	162	142	106	193
	74	49	44	30	37	33	53	57	27	45
Yukon Gold	278	221	239	120	175	120	273	251	164	205
	83	54	66	48	29	34	80	70	43	56
CO89097-2	278	414	317	200	386	258	285	271	211	291
	86	76	69	55	59	54	79	74	47	67
NDO4300-1R	239	377	---	319	425	214	331	136	322	295
	89	84	---	91	75	60	86	77	68	79
NDO4588-5R	356	339	---	262	291	208	267	252	212	273
	96	77	---	59	49	46	88	87	43	68
NDO4323-2R	294	514	---	308	397	260	286	208	337	326
	93	85	---	81	55	64	93	90	79	80
A92657-1R	169	225	---	258	348	198	271	---	182	236
	70	63	---	61	55	43	95	---	36	60
TX1523-1Ru/Y	196	---	232	226	232	235	334	180	197	229
	78	---	65	67	34	54	95	90	40	65
Mean	273	357	255	226	313	206	277	210	216	259
	84	70	62	61	49	48	84	78	47	65

Table 9. Yield and Percent Bs

Clone	Yield Bs (cwt/A & %)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	DLT	GR	
Dark Red Norland	9	20	34	35	36	23	85	101	27	41
	2	3	8	8	5	5	26	33	5	11
Red LaSoda	11	12	30	15	35	26	44	30	23	25
	3	2	6	5	6	6	14	12	6	7
Yukon Gold	12	6	33	19	17	14	81	83	27	32
	3	1	9	8	3	4	24	23	7	9
CO89097-2	18	22	50	48	48	30	73	88	31	45
	6	4	11	13	7	6	20	24	7	11
NDO4300-1R	20	25	---	89	73	35	124	86	28	60
	7	6	---	25	13	10	32	49	6	19
NDO4588-5R	17	16	---	30	31	36	93	80	32	42
	5	4	---	7	5	8	31	28	7	12
NDO4323-2R	24	42	---	79	53	51	131	131	77	74
	7	7	---	21	7	12	43	57	18	22
A92657-1R	8	10	---	38	26	28	63	---	20	28
	3	3	---	9	4	6	22	---	4	7
TX1523-1Ru/Y	10	---	29	34	13	33	101	71	26	40
	4	---	8	10	2	8	29	35	5	13
Mean	14	19	35	43	37	31	88	84	32	43
	4	4	8	12	6	7	27	33	7	12

Table 10. Yield and Percent U.S. No. 1s 4 - 6 oz

Clone	Yield U.S. No. 1s 4 - 6 oz (cwt/A & %)								Mean
	CA		ID	OR		TX		WA	
	KRN	TUL	KMB	KLM	COR	SPR	DLT	GR	
Dark Red Norland	68	220	55	93	53	83	63	52	86
	18	36	13	13	12	25	20	10	18
Red LaSoda	61	130	24	49	30	56	46	28	53
	15	18	9	8	7	18	19	7	13
Yukon Gold	67	95	22	37	32	84	60	33	54
	15	23	9	6	9	25	17	9	14
CO89097-2	68	228	73	115	61	96	73	47	95
	21	42	20	18	13	27	20	10	21
NDO4300-1R	48	191	107	149	62	125	31	84	100
	18	43	30	26	17	33	17	18	25
NDO4588-5R	56	164	55	73	45	96	85	38	77
	15	37	12	12	10	32	30	8	20
NDO4323-2R	95	330	90	130	85	105	48	95	122
	30	54	24	18	21	34	21	22	28
A92657-1R	43	98	55	90	47	125	---	37	71
	18	27	13	14	10	44	---	7	19
TX1523-1Ru/Y	43	---	48	53	67	122	53	39	61
	17	---	14	8	15	35	26	8	18
Mean	61	182	59	88	54	99	57	50	80
	19	35	16	14	13	30	21	11	20

Table 11. Yield and Percent U.S. No. 1s 6 - 10 oz

Clone	Yield U.S. No. 1s 6 - 10 oz (cwt/A & %)									
	CA		CO	ID	OR		TX		WA	Mean
	KRN	TUL	SLV ¹	KMB	KLM	COR	SPR	DLT	GR	
Dark Red Norland	263	174	239	164	216	147	112	74	134	169
	70	29	57	38	31	32	34	24	27	38
Red LaSoda	237	212	186	44	137	86	62	67	56	121
	57	30	38	16	23	20	20	27	14	27
Yukon Gold	199	121	206	79	121	74	108	108	104	124
	57	30	57	32	20	21	32	30	27	34
CO89097-2	192	164	267	79	223	166	116	110	133	161
	59	30	58	22	34	35	32	30	30	37
NDO4300-1R	171	161	---	123	203	118	82	19	210	136
	64	36	---	35	36	33	21	11	44	35
NDO4588-5R	283	158	---	176	187	127	78	86	143	155
	76	36	---	40	31	28	26	30	29	37
NDO4323-2R	176	143	---	140	214	125	51	28	165	130
	56	24	---	37	29	31	17	12	39	31
A92657-1R	118	117	---	165	232	124	83	---	126	138
	49	33	---	39	37	27	29	---	25	34
TX1523-1Ru/Y	143	---	203	145	166	134	111	56	132	136
	57	---	57	43	24	31	32	28	27	37
Mean	198	156	220	124	189	122	89	69	134	141
	61	31	53	34	29	29	27	24	29	34

¹ CO SLV 4-10 oz

Table 12. Yield and Percent U.S. No. 1s > 10 oz

Clone	Total Yield U.S. NO. 1S > 10 oz (CWT/A & %)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	DLT	GR	
Dark Red Norland	26	158	139	170	319	145	37	33	234	140
	7	26	33	40	45	32	11	11	47	28
Red LaSoda	87	259	252	169	248	106	120	75	183	167
	21	36	51	61	42	25	39	30	47	39
Yukon Gold	49	152	116	115	410	175	64	71	188	149
	21	37	32	46	67	50	19	20	50	38
CO89097-2	32	107	124	148	228	146	53	21	211	119
	10	20	27	41	35	30	15	6	47	26
NDO4300-1R	24	62	---	28	115	104	45	0	139	65
	9	14	---	8	20	29	12	0	29	15
NDO4588-5R	9	82	---	173	245	146	17	7	250	116
	3	19	---	39	41	32	6	2	51	24
NDO4323-2R	5	24	---	65	142	74	10	0	72	49
	2	4	---	17	19	18	3	0	17	10
A92657-1R	51	123	---	156	229	195	12	---	279	149
	21	34	---	37	36	42	4	---	56	33
TX1523-1Ru/Y	40	---	126	108	449	133	18	4	250	141
	16	---	35	32	65	31	5	2	51	30
Mean	36	121	151	126	265	136	42	26	201	122
	12	24	36	36	41	32	13	9	44	27

Table 13. Yield and Percent Culls

Clone	Yield Culls (cwt/A & %)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	DLT	GR	
Dark Red Norland	8	33	7	5	42	90	9	36	53	31
	2	5	2	1	6	20	3	12	11	7
Red LaSoda	19	106	25	27	122	183	22	30	103	71
	4	15	5	10	21	42	7	12	26	16
Yukon Gold	7	33	6	15	26	56	5	36	28	24
	4	8	2	6	4	16	1	10	7	6
CO89097-2	14	22	17	15	37	75	23	73	27	34
	4	4	4	4	6	16	6	20	6	8
NDO4300-1R	5	10	---	4	25	39	7	42	16	19
	2	2	---	1	4	11	2	23	3	6
NDO4588-5R	5	20	---	10	61	95	20	31	30	34
	1	5	---	2	10	21	7	11	6	8
NDO4323-2R	16	68	---	8	190	75	10	22	19	51
	5	11	---	2	26	18	3	10	4	10
A92657-1R	22	10	---	12	56	66	2	---	38	29
	9	3	---	3	9	14	1	---	8	7
TX1523-1Ru/Y	14	---	1	3	8	68	0	16	43	19
	6	---	0	1	1	16	0	8	9	5
Mean	12	38	11	11	63	83	11	36	40	35
	4	7	3	3	10	19	3	13	9	8

Table 14. Specific Gravity

Clone	Specific Gravity									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	DLT	GR	
Dk. Red Norland	1.081	1.070	1.069	1.073	1.069	1.058	1.040	1.062	1.076	1.066
Red LaSoda	1.080	1.068	1.081	1.063	1.067	1.069	1.040	1.060	1.069	1.066
Yukon Gold	1.087	1.081	1.086	1.085	1.085	1.086	1.050	1.072	1.090	1.080
CO89097-2	1.086	1.072	1.083	1.079	1.075	1.080	1.046	1.066	1.079	1.074
NDO4300-1R	1.076	1.069	---	1.072	1.064	1.062	1.042	1.061	1.076	1.065
NDO4588-5R	1.082	1.070	---	1.069	1.063	1.060	1.051	1.052	1.071	1.065
NDO4323-2R	1.082	1.077	---	1.078	1.078	1.073	1.050	1.060	1.083	1.073
A92657-1R	1.082	1.068	---	1.071	1.072	1.078	1.040	---	1.077	1.070
TX1523-1Ru/Y	1.087	---	1.083	1.083	1.077	1.079	1.053	1.075	1.090	1.078
Mean	1.083	1.072	1.080	1.075	1.072	1.072	1.046	1.064	1.079	1.071

Table 15. Tuber Size and Shape

Clone	Average Tuber Size (oz)						Tuber Shape (1 - round, 5 - long)							
	ID	OR	TX		WA	Mean	CA		CO	ID	OR	TX	WA	Mean
	KMB	COR	SPR	DLT	GR		KRN	TUL	SLV	KMB	KLM	SPR	GR	
Dk. Red Norland	7.1	6.6	5.0	4.3	8.4	6.3	2.0	2.5	1.0	2.8	2.0	2.3	1.3	2.0
Red LaSoda	9.2	7.2	6.6	6.9	8.6	7.7	3.0	3.0	2.0	3.0	3.0	2.0	1.0	2.4
Yukon Gold	7.7	8.5	5.0	5.4	8.1	6.9	2.0	2.3	2.0	2.5	3.0	2.1	---	2.3
CO89097-2	6.6	6.4	5.5	4.8	7.9	6.2	---	1.8	2.0	2.8	2.0	1.3	1.0	1.8
NDO4300-1R	4.4	6.0	4.1	3.5	7.1	5.0	2.0	1.8	---	1.5	2.0	2.0	1.3	1.8
NDO4588-5R	6.3	6.7	4.0	4.2	8.3	5.9	1.0	2.3	---	2.3	2.0	2.1	1.0	1.8
NDO4323-2R	4.6	5.4	3.6	3.2	5.4	4.4	1.8	2.0	---	1.8	2.0	2.0	1.0	1.8
A92657-1R	6.9	7.4	4.5	---	9.1	7.0	2.0	1.8	---	2.0	2.0	2.3	1.0	1.9
TX1523-1Ru/Y	6.6	6.2	4.7	4.6	8.4	6.1	1.8	---	1.0	2.0	2.0	1.9	---	1.7
Mean	6.6	6.7	4.8	4.6	7.9	6.2	2.0	2.2	1.6	2.3	2.2	2.0	1.1	1.9

Table 16. Eye Depth and Skin Color

Clone	Eye Depth (5 - shallow)							Skin Color (1 - Pale, 5 - Deep Red)							
	ID	OR	CA		TX	WA	Mean	CA		CO	ID	OR	TX	WA	Mean
	KMB	KLM	KRN	TUL	SPR	GR		KRN	TUL	SLV	KMB	KLM	SPR	GR	
Dk. Red Norland	---	3.5	2.0	3.3	4.1	1.8	2.9	2.0	2.5	2.0	2.8	3.0	2.0	3.0	2.5
Red LaSoda	---	2.0	2.7	2.3	2.0	1.0	2.0	1.7	2.3	1.0	2.5	3.0	2.0	2.3	2.1
Yukon Gold	---	4.3	5.0	4.3	3.0	---	4.2	---	---	---	---	---	---	---	---
CO89097-2	---	5.0	---	4.5	4.3	3.3	4.3	---	3.3	3.0	3.5	4.8	3.0	3.0	3.4
NDO4300-1R	---	5.0	3.0	5.0	4.5	3.5	4.2	3.0	3.0	---	3.8	5.0	4.0	4.5	3.9
NDO4588-5R	---	4.0	4.0	3.7	5.0	3.0	3.9	3.0	3.7	---	3.0	5.0	3.0	4.3	3.7
NDO4323-2R	---	3.0	3.5	4.0	4.6	2.3	3.5	3.8	3.3	---	3.5	4.5	4.0	4.3	3.9
A92657-1R	---	4.0	4.0	4.5	4.1	3.3	4.0	3.0	3.0	---	3.5	4.3	3.0	3.5	3.4
TX1523-1Ru/Y	---	4.0	4.0	---	3.9	---	4.0	---	---	---	---	---	---	---	---
Mean	---	3.9	3.5	4.0	3.9	2.6	3.7	2.8	3.0	2.0	3.2	4.2	3.0	3.6	3.3

Table 17. Growth Cracks and Skinning

Clone	Growth Cracks (5 - none)						Skinning (5 - none)			
	CO SLV	ID KMB	OR KLM	TX SPR	WA GR	Mean	OR KLM	WA GR	ID KMB	Mean
Dk. Red Norland	4.0	5.0	4.5	4.5	3.3	4.3	4.1	2.8	3.3	3.4
Red LaSoda	3.0	3.8	2.5	5.0	2.0	3.3	3.3	2.0	2.0	2.4
Yukon Gold	4.0	5	4.3	5.0	4.3	4.5	5.0	4.0	3.0	4.0
CO89097-2	3.0	4.8	4.3	3.5	4.5	4.0	4.3	3.3	2.0	3.2
NDO4300-1R	---	5.0	4.5	5.0	4.5	4.8	4.3	4.5	3.8	4.2
NDO4588-5R	---	5.0	4.0	5.0	4.5	4.6	2.5	3.3	2.5	2.8
NDO4323-2R	---	4.8	2.0	5.0	4.0	4.0	3.8	4.0	3.3	3.7
A92657-1R	---	4.5	3.5	5.0	3.8	4.2	3.0	2.8	3.3	3.0
TX1523-1Ru/Y	4.0	5.0	5.0	5.0	4.5	4.7	4.5	4.0	3.8	4.1
Mean	3.6	4.8	3.8	4.8	3.9	4.3	3.9	3.4	3.0	3.4

Table 18. Percent HH and BC

Clone	% Hollow Heart & Brown Center								Mean
	CA		CO	ID	OR		TX	WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	
Dk. Red Norland	0	8	0	0	3	---	50	13	11
Red LaSoda	33	50	39	3	8	---	0	25	23
Yukon Gold	8	8	1	13	5	---	25	0	9
CO89097-2	0	0	1	10	0	---	0	5.1	2
NDO4300-1R	0	0	---	0	0	---	0	3	1
NDO4588-5R	0	17	---	0	3	---	0	8	5
NDO4323-2R	0	0	---	0	0	---	0	5	1
A92657-1R	0	8	---	0	5	---	0	0	2
TX1523-1Ru/Y	0	---	0	0	0	---	0		0
Mean	5	11	8	3	3	---	8	7	6

Table 19. Fresh Market Quality (Merit) Rating

Clone	Fresh market quality (1-poor, 5-best)					Mean
	CA		CO	ID	TX	
	KRN	TUL	SLV	KMB	SPR	
Dk. Red Norland	--	2.0	3.0	2.5	3.1	2.7
Red LaSoda	--	2.3	1.0	1.8	3.0	2.0
Yukon Gold	--	3.0	4.0	2.7	3.6	3.3
CO89097-2	--	3.5	4.0	2.5	3.5	3.4
NDO4300-1R	--	2.8	--	3.7	3.2	3.2
NDO4588-5R	--	3.3	--	3.3	2.8	3.1
NDO4323-2R	--	3.5	--	3.3	2.8	3.2
A92657-1R	--	2.8	--	3.0	2.9	2.9
TX1523-1Ru/Y	--	--	4.0	2.8	3.4	3.4
Mean	--	2.9	3.2	2.8	3.1	3.0

Table 20. Miscellaneous Data on Tuber Quality

Clone	Tuber blight 1	Washington				Kimberly, Idaho					
		Culinary Quality ²				Mean					
		Boiling	Baking	Microwave	Total	Solids	Protein	Dextrose	Sucrose	Vitamin C	TGA
Dk. Red Norland	13.0	20.5	17.8	19.3	57.6	20.4	4.8	0.03	0.40	32.8	2.9
Red LaSoda	18.0	20.3	19.3	14.5	54.1	16.4	6.3	0.21	0.30	33.6	4.3
Yukon Gold	15.0	18.8	18.5	21.0	58.3	24.6	5.5	0.04	0.45	44.7	4.0
CO89097-2	10.0	18.5	18.8	18.8	56.1	22.5	6	0.05	0.34	28.8	2.7
NDO4300-1R	8.0	19.8	15.8	19.0	54.6	19.2	4.5	0.05	0.28	34.6	4.1
NDO4588-5R	8.0	18.5	17.3	21.5	57.3	19.3	5.2	0.06	0.19	35.5	2.2
NDO4323-2R	15.0	18.5	20.0	20.8	59.3	20.7	3.7	0.04	0.32	30.2	4.2
A92657-1R	13.0	18.5	16.3	17.5	52.3	20.3	5.3	0.03	0.36	26.1	0.6
TX1523-1Ru/Y	10.0	18.3	18.3	21.5	58.1	22.0	5.2	0.01	0.21	32.9	3.4
Mean	12.2	19.1	18.0	19.3	56.4	20.6	5.2	0.06	0.32	33.2	3.2

^{1/} Percent of tubers showing late blight infection based on 10 randomly selected tubers per plot. Data courtesy Dr. Al Mosley, Corvallis, OR.

^{2/} Higher score = better quality, maximum = 25 per test.

Table 21. Summary

No.	Clone	Field Data				Yield Qualities						Quality	
		% Stand	Stems/hill	Vine Size	Vine Mat.	Total Yield	% 4-10	% >10	% <4	Yield Mark ¹	% Mark ¹	Specific gravity	Fresh Merit
1	Dk. Red Norland	94	2.4	3.0	2.4	458	54	28	11	287	65	1.066	2.7
2	Red LaSoda	93	2.0	3.1	2.9	430	39	39	7	193	45	1.066	2.0
3	Yukon Gold	91	1.7	3.1	2.5	377	46	38	9	205	56	1.080	3.3
4	CO89097-2	93	2.1	3.2	3.2	444	55	26	11	291	67	1.074	3.4
5	NDO4300-1R	87	2.5	2.2	2.3	378	62	15	19	295	79	1.065	3.2
6	NDO4588-5R	92	2.1	2.7	2.3	423	55	24	12	273	68	1.065	3.1
7	NDO4323-2R	96	3.0	2.8	2.9	426	59	10	22	326	80	1.073	3.2
8	A92657-1R	83	2.3	2.7	3.1	415	50	33	7	236	60	1.070	2.9
9	TX1523-1Ru/Y	96	2.1	3.5	2.7	389	49	30	13	229	65	1.078	3.4
Mean		92	2.2	2.9	2.7	415	52.1	27	12	259	65	1.071	3.0

¹ Marketable includes U.S. No. 1's 4-10 oz + B's (< 4 oz)

Table 22. 3-Year Summary of Graduating Entries

Clone	Marketable (cwt/a)				Yield (cwt/a)		Total Yield (cwt/a)	Spec. Grav.	% HH & BC	Skin Color ¹	Quality Rating ²	Culinary Quality ³
	B's	4-6 oz	6-10 oz	Total	> 10	Culls						
Dk. Red Norland	43	76	154	273	126	40	439	1.068	7	2.8	2.9	59.3
Red LaSoda	28	54	115	197	135	77	409	1.069	13	2.2	2.0	56.5
NDO4300-1R	66	106	129	301	61	24	386	1.067	2	3.8	3.6	53.9
NDO4588-5R	45	88	153	286	92	28	406	1.067	3	3.6	3.4	55.5
CO89097-2	50	87	152	289	116	35	440	1.075	2	3.5	3.5	56.1

¹ Skin Color: 1 = Pale, 5 = Deep Red

² Fresh Market Rating: 1 = Poor, 5 = Best

³ Rating: Boiling, Baking, Microwave Test, Higher score = better quality; maximum = 25 per test