

2001 Western Regional Red-skinned Potato Trial Table of Contents

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Description of Clones - 2001 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	
A92584-3BB	A86463-4	NDA2031-2	No Flower	Small	Early	Round	White	ID	Fresh	ID	1
A92653-6R	A82705-1R	Mazama	Med-purple	Med	Med	Round	Red	ID	Fresh	ID	1
A92657-1R	Mazama	NDO3503-2R	Red-purple	Med	Med	Round	Dk. Red	ID	Fresh	OR	2
NDC5281-2	ND3196-1R	ND2224-5R	Dk Red-purple	Large	Med/Early	Oval	Dk. Red	CO	Fresh	CO	1
NDO4323-2R	1871-3	LA 12-59	Red-purple	Med	Med	Oval	Dk. Red	OR	Fresh	OR	2
NDTX4271-5R	NDTX1068-11R	ND2050-1R	Red-purple	Med	Med	Oval	Dk. Red	TX	Fresh	CO	1
TX1523-1Ru/Y	Krantz	Delta Gold	White	Med	Med	Oblong	Russet	TX	Fresh	CO	2
TX1674-1W/Y	Russet Nugget	Delta Gold	Lavender	Med	Med/Early	Oblong	White	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	285-?-?	Machine	5-Feb	?	20-Jun	?
2. Tulelake California (TUL)	R. Voss, H. Phillips D. Kirby	Sprinkler	160-20-0	Machine	9-May	7-Sep	20-Sep	121
3. San Luis Valley Colorado (SLV)	D. Holm, Susie Thompson	Pivot	118-60-40-87	Machine	16-May	31-Aug	25-Sep	105
4. Aberdeen Idaho (AB)	S. Love T. Salaiz, M. Bain	Sprinkler	220-120-40	Machine	2-May	20-Aug	21-Aug	110
5. Klamath Falls Oregon (KLM)	K. Rykbost B. Charlton	Sprinkler	160-80-80-140	Machine	24-May	7-Sep	27-Sep	106
6. Corvallis Oregon (COR)	A. Mosley S. Yilma	Sprinkler	150-150-150-9	Hand	19-May	10-Sep	21-Sep	114
7. Springlake Texas (S E)	C. Miller, J. Koym D. Scheuring	Pivot	160-33-63	Hand	20-Mar	28-Jun	11-Jul	98
8. Springlake Texas (S L)	C. Miller, J. Koym D. Scheuring	Pivot	160-33-63	Hand	22-Mar	13-Jul	31-Jul	111
9. Granger Washington (GR)	R. Thornton, G. Newberry, R. Knowles, N. Fuller	Furrow	135-100-70	Machine	20-Mar	1-Jul	23-Jul	103

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

Item	CA		CO	ID	OR		TX		WA
	KRN	TUL	SLV	AB	KLM	COR	SE	SL	GR
Plot Information:									
Row/plot	1	1	1	1	1	1	1	1	1
Length of plot (ft)	20	20	25	20	23	25	20	20	20
Hill spacing (in)	9	9	12	10	9	9	9	12	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	3	2	4
Soil Type:									
Fine sand					x		x	x	
Fine sandy loam									
Loamy fine sand									
Sandy loam	x		x			x			x
Silt loam				x					
Organic - 8%		x							
Fungicides:									
Bravo 720					x	x			
Bravo Wthr. Stk.	x	x	x				x	x	
Agri Tin			x						
Curzate		x				x			
Ridomil MZ					x				
Mancozeb									
Tops MZ					x		x	x	
Quadris	x		x		x	x			
Nu-Film P	x								
Dithane		x		x	x	x			
Champ									
Maxim									
SuperTin			x						
Rovral		x							
Insecticides:									
Admire/Provado				x		x	x	x	
Asana		x							
Genesis							x	x	
Baythroid 2	x								
DiSyston									
Ambush									x
Monitor	x								
Leverage 2.7			x						
Thimet						x			

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

Item	CA		CO	ID	OR		TX		WA
	KRN	TUL	SLV	AB	KLM	COR	S E	S L	GR
Herbicides:									
Dual			X				X	X	
Eptam	X			X					X
Lexone		X	X	X			X	X	
Matrix		X		X		X	X	X	
Roundup							X	X	
Poast									
Prowl	X					X			X
Trilin									X
Trifluralin									
Fumigant:									
Telone II									
Methyl Bromide/Chloropicrin						X			
Vapam									
Vine Killing:									
Diquat		X			X	X			X
Sulfuric Acid			X						
Mechanical				X					
Environmental Factors:									
Cool/Dry Summer									
Frost									
Favorable	X	X		X	X		X	X	
Hot Summer				X	X				
Below Avg. Precip.									
Comments:									
Poor Vine Kill									
Virus							X		
Rhizoctonia						X		X	
Pink Rot						X			
Heat Stress				X					

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	AB	KLM	S E	S L	GR		SLV	KMB	GR	S E	S L	
Dk. Red Norland	93	96	97	86	98	95	100	100	96	4.5	3.2	2.4	1.9	2.2	3.0
Red LaSoda	70	84	97	90	93	96	90	97	90	3.2	2	1.6	1.7	2.8	2.1
Yukon Gold	91	82	97	91	96	94	100	97	94	2.3	1.8	1.1	2.0	2.6	1.8
A92584-3BB	---	99	---	93	---	99	100	100	98	---	4.3	3.2	2.0	2.2	3.2
A92653-6R	85	---	---	94	96	89	95	95	92	---	3.2	1.9	2.4	2.7	2.5
A92657-1R	84	65	73	79	96	88	98	84	83	2.8	2.2	1.7	2.4	2.3	2.3
NDC5281-2	90	---	98	92	99	96	88	97	94	4.5	2.7	3.5	1.9	2.5	3.2
NDO4323-2R	90	95	97	82	98	95	100	100	95	3.4	2.5	2.4	2.0	2.3	2.6
NDTX4271-5R	90	95	98	97	93	95	92	74	92	3.6	2.3	2.1	1.8	2.4	2.5
TX1523-1Ru/Y	84	89	98	88	98	93	100	95	93	5.2	2.5	1.2	1.7	2.0	2.7
TX1674-1W/Y	93	97	97	90	---	95	93	97	95	3.5	2.5	2.2	2.0	2.2	2.6
Mean	87	89	95	89	96	94	96	94	93	3.7	2.7	2.1	2.0	2.4	2.6

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	AB	KLM	SE	SL	GR		KRN	TUL	SLV	AB	KLM	SE	SL	GR	
Dk. Red Norland	4.3	3.8	1.8	3.0	4.8	3.0	3.5	5.0	3.7	1.8	3.5	1.0	3.0	2.8	2.5	4.0	5.0	3.0
Red LaSoda	2.8	2.8	3.8	2.8	3.8	3.2	4.3	5.0	3.6	2.8	2.5	2.5	3.0	3.3	3.0	4.5	5.0	3.3
Yukon Gold	4.3	4.3	2.8	2.8	3.8	3.0	2.8	5.0	3.6	1.5	3.5	1.3	2.5	3.1	3.0	2.8	5.0	2.8
A92584-3BB	---	2.8	---	1.8	---	3.3	4.3	3.0	3.0	---	3.3	---	2.8	---	3.8	4.3	3.0	3.4
A92653-6R	4.0	---	---	3.0	4.0	4.2	4.3	4.5	4.0	3.8	---	---	3.8	3.1	4.5	4.5	4.5	4.0
A92657-1R	3.5	3.0	3.0	2.8	3.3	3.2	3.0	4.0	3.2	2.3	2.8	3.0	3.8	3.6	3.3	3.8	4.0	3.3
NDC5281-2	4.3	---	2.8	1.8	4.0	2.3	2.8	4.0	3.1	2.8	---	1.3	2.0	2.4	1.7	3.5	4.0	2.5
NDO4323-2R	4.3	3.3	2.8	2.0	2.5	2.5	2.8	4.0	3.0	3.0	2.8	2.5	3.0	3.9	1.5	2.5	4.0	2.9
NDTX4271-5R	4.0	3.3	3.0	1.3	3.3	3.0	3.5	4.0	3.2	3.3	2.8	1.8	2.0	3.5	2.0	2.5	4.0	2.7
TX1523-1Ru/Y	3.5	3.8	2.5	2.0	3.8	3.5	3.3	4.5	3.4	2.3	3.3	1.3	2.3	3.0	3.7	3.8	4.5	3.0
TX1674-1W/Y	4.5	3.0	2.8	2.3	---	3.3	3.8	5.0	3.5	2.8	3.0	3.0	2.8	---	4.0	3.8	5.0	3.5
Mean	4.0	3.3	2.8	2.3	3.7	3.1	3.5	4.4	3.4	2.6	3.1	2.0	2.8	3.2	3.0	3.6	4.4	3.1

Table 6. Total Yield

Clone	Total Yield (cwt/A)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	AB	KLM	COR	S E	S L	GR	
Dk. Red Norland	374	567	436	490	657	478	281	354	514	461
Red LaSoda	409	447	543	424	612	404	260	306	408	424
Yukon Gold	323	451	389	417	565	379	228	334	458	394
A92584-3BB	---	427	---	352	---	397	301	232	514	371
A92653-6R	339	---	---	492	594	453	154	349	357	391
A92657-1R	252	387	339	379	632	448	286	382	413	391
NDC5281-2	360	---	363	454	517	387	243	238	472	379
NDO4323-2R	362	455	465	415	581	369	256	253	445	400
NDTX4271-5R	337	545	477	410	595	484	271	285	518	436
TX1523-1Ru/Y	276	399	417	376	510	336	227	324	462	370
TX1674-1W/Y	317	390	381	374	---	413	230	264	596	371
Mean	335	452	423	417	585	413	249	302	469	399

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	AB	KLM	COR	S E	S L	GR	
Dark Red Norland	331	467	340	423	584	348	242	314	437	387
	89	82	78	86	89	73	86	89	85	84
Red LaSoda	385	369	459	332	471	258	226	257	268	336
	94	83	84	78	77	64	87	84	66	80
Yukon Gold	301	402	319	331	514	345	189	280	374	339
	94	89	82	79	91	91	83	84	82	86
A92584-3BB	---	263	---	195	---	168	124	187	324	210
	---	62	---	55	---	42	41	81	63	57
A92653-6R	314	---	---	432	500	380	59	300	260	321
	92	---	---	88	84	84	39	86	73	78
A92657-1R	234	331	291	349	564	389	229	319	327	337
	93	86	86	92	89	87	80	83	79	86
NDC5281-2	297	---	132	314	397	268	145	206	226	248
	82	---	36	69	77	69	60	87	48	66
NDO4323-2R	338	326	305	316	477	230	181	217	258	294
	93	71	66	76	82	63	71	86	58	74
NDTX4271-5R	312	451	360	368	514	371	225	245	436	365
	92	83	75	90	86	77	83	86	84	84
TX1523-1Ru/Y	254	366	322	333	467	292	175	269	382	318
	92	92	77	89	92	87	77	83	83	86
TX1674-1W/Y	287	322	267	317	---	326	160	216	442	292
	90	83	70	85	---	79	70	82	74	79
Mean	305	366	311	337	499	307	178	255	339	313
	91	81	73	81	85	74	71	85	72	78

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	AB	KLM	COR	S E	S L	GR	
Dark Red Norland	330	316	391	258	366	249	214	253	267	294
	88	56	90	53	56	52	76	72	52	66
Red LaSoda	309	123	364	103	174	164	179	239	131	198
	76	28	67	24	28	41	69	78	32	49
Yukon Gold	242	155	282	226	249	192	165	253	218	220
	75	34	72	54	44	51	72	76	48	58
A92584-3BB	---	396	---	341	---	326	297	179	441	330
	---	93	---	97	---	82	99	77	86	89
A92653-6R	263	---	---	210	479	282	154	291	258	277
	77	---	---	43	81	62	100	83	72	74
A92657-1R	236	165	233	128	251	252	270	269	217	225
	94	43	69	34	40	56	94	70	53	61
NDC5281-2	331	---	360	422	453	299	224	165	423	335
	92	---	99	93	88	77	92	69	90	88
NDO4323-2R	322	336	411	242	353	217	239	185	352	295
	89	74	88	58	61	59	93	73	79	75
NDTX4271-5R	284	371	403	270	438	297	244	196	378	320
	85	68	84	66	74	61	90	69	73	74
TX1523-1Ru/Y	202	159	378	228	260	229	205	248	124	226
	73	40	91	61	51	68	90	77	27	64
TX1674-1W/Y	273	225	313	251	---	301	214	217	429	278
	86	58	82	67	---	73	93	82	72	77
Mean	279	250	348	244	336	255	219	227	294	272
	84	55	82	59	58	62	88	75	62	71

Table 9. Yield and Percent Bs

Clone	Yield Bs (cwt/A & %)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	AB	KLM	COR	S E	S L	GR	
Dark Red Norland	37	61	93	38	33	38	29	40	42	46
	10	11	21	8	5	8	10	11	8	10
Red LaSoda	8	22	70	17	14	27	30	49	21	29
	2	5	13	4	2	7	11	16	5	7
Yukon Gold	10	25	66	43	22	15	25	54	31	32
	3	6	17	10	4	4	11	16	7	9
A92584-3BB	---	158	---	152	---	172	173	45	152	142
	---	37	---	43	---	43	58	19	30	38
A92653-6R	20	---	---	55	66	41	94	49	74	57
	6	---	---	11	11	9	62	14	21	19
A92657-1R	14	31	35	19	17	29	53	64	35	33
	6	8	10	5	3	6	19	17	8	9
NDC5281-2	43	---	228	130	98	73	82	32	208	112
	12	---	63	29	19	19	34	13	44	29
NDO4323-2R	18	70	134	55	50	48	63	36	108	65
	5	15	29	13	9	13	25	14	24	16
NDTX4271-5R	15	68	111	36	55	42	44	39	52	51
	5	12	23	9	9	9	16	14	10	12
TX1523-1Ru/Y	9	16	87	29	27	30	38	55	10	33
	3	4	21	8	5	9	17	17	2	10
TX1674-1W/Y	19	46	92	48	---	69	64	49	79	58
	6	12	24	13	---	17	28	18	13	16
Mean	19	55	102	57	42	53	63	47	74	60
	6	12	25	14	7	13	26	15	16	16

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		AB	KLM	COR	S E		
Dark Red Norland	183	127	70	114	45	90	108	79	102
	49	22	14	17	9	32	31	15	24
Red LaSoda	181	38	21	48	34	67	84	21	62
	44	9	5	8	8	26	27	5	17
Yukon Gold	135	64	56	72	32	66	78	52	69
	42	14	13	13	8	29	23	11	19
A92584-3BB	---	175	117	---	93	84	81	151	117
	---	41	33	---	23	28	35	29	32
A92653-6R	172	---	42	174	57	59	65	102	96
	51	---	9	29	13	39	19	28	27
A92657-1R	145	57	15	84	38	116	70	61	73
	58	15	4	13	8	41	18	15	22
NDC5281-2	184	---	159	199	63	108	56	148	131
	51	---	35	38	16	44	23	31	34
NDO4323-2R	152	135	60	114	54	111	48	123	100
	42	30	14	20	15	44	19	28	27
NDTX4271-5R	163	141	55	136	84	87	67	103	105
	48	26	13	23	17	32	24	20	25
TX1523-1Ru/Y	108	64	50	95	50	68	99	24	70
	39	16	13	19	15	30	31	5	21
TX1674-1W/Y	134	106	85	---	57	83	72	138	96
	42	27	23	---	14	36	27	23	27
Mean	156	101	66	115	55	85	75	91	93
	47	22	16	20	13	35	25	19	25

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	AB	KLM	COR	S E	S L	GR	
Dark Red Norland	110	127	298	150	219	166	94	105	146	157
	29	22	68	31	33	35	34	30	28	34
Red LaSoda	120	63	294	65	112	103	82	107	89	115
	29	14	54	15	18	25	32	35	22	27
Yukon Gold	96	66	216	127	155	145	74	121	136	126
	30	15	56	30	27	38	33	36	30	33
A92584-3BB	---	63	---	72	---	61	40	53	138	71
	---	15	---	20	---	15	13	23	27	19
A92653-6R	72	---	---	113	239	184	0	178	82	124
	21	---	---	23	40	41	0	51	23	28
A92657-1R	76	77	198	94	150	185	101	136	122	127
	30	20	58	25	24	41	35	36	29	33
NDC5281-2	105	---	132	133	156	163	35	77	68	109
	29	---	36	29	30	42	14	33	14	28
NDO4323-2R	153	132	277	127	189	115	65	101	121	142
	42	29	60	31	33	31	25	40	27	35
NDTX4271-5R	106	162	292	179	247	171	113	90	222	176
	32	30	61	44	42	35	42	32	43	40
TX1523-1Ru/Y	85	79	291	149	138	149	99	94	89	130
	31	20	70	40	27	44	44	29	19	36
TX1674-1W/Y	120	73	221	118	---	175	67	97	212	135
	38	19	58	32	---	42	29	37	36	36
Mean	104	94	247	121	178	147	70	105	130	128
	31	20	58	29	30	35	27	35	27	32

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	AB	KLM	COR	S E	S L	GR	
Dark Red Norland	38	212	42	203	251	137	57	101	212	139
	10	37	10	41	38	29	20	29	41	28
Red LaSoda	84	268	165	246	311	121	77	67	158	166
	21	60	30	58	51	30	30	22	39	38
Yukon Gold	70	272	103	148	287	167	49	81	187	152
	22	60	26	35	51	44	21	24	41	36
A92584-3BB	---	25	---	5	---	14	0	53	35	22
	---	6	---	1	---	4	0	23	7	7
A92653-6R	71	---	---	276	87	139	0	58	76	101
	21	---	---	56	15	31	0	17	21	23
A92657-1R	13	197	93	240	330	166	12	113	144	145
	5	51	27	63	52	37	4	30	35	34
NDC5281-2	8	---	0	23	42	42	3	73	10	25
	2	---	0	5	8	11	1	31	2	8
NDO4323-2R	33	59	28	129	174	61	5	68	14	63
	9	13	6	31	30	17	2	27	3	15
NDTX4271-5R	43	147	68	134	131	117	25	88	110	96
	13	27	14	33	22	24	9	31	21	22
TX1523-1Ru/Y	61	223	31	134	234	93	8	76	268	125
	22	56	7	36	46	28	4	24	58	31
TX1674-1W/Y	33	143	46	114	---	94	10	47	92	72
	10	37	12	30	---	23	4	18	15	19
Mean	45	172	64	150	205	105	22	75	119	101
	14	39	15	35	35	25	9	25	26	24

Table 13. Yield and Percent 2's and Culls

Clone	Yield 2's & Culls (cwt/A & %)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	AB	KLM	COR	S E	S L	GR	
Dark Red Norland	6	39	3	29	40	92	10	0	35	28
	2	7	1	6	6	19	4	0	7	6
Red LaSoda	15	56	14	75	127	119	4	0	120	59
	4	13	3	18	21	29	1	0	29	13
Yukon Gold	11	24	4	43	29	19	14	0	53	22
	3	5	1	10	5	5	6	0	12	5
A92584-3BB	---	6	---	6	---	57	4	0	38	19
	---	1	---	2	---	14	1	0	7	4
A92653-6R	5	---	---	6	28	32	0	0	24	14
	2	---	---	1	5	7	0	0	7	3
A92657-1R	3	24	13	11	51	30	4	0	52	21
	1	6	4	3	8	7	2	0	13	5
NDC5281-2	21	---	3	9	22	46	16	0	38	19
	6	---	1	2	4	12	7	0	8	5
NDO4323-2R	7	60	26	44	54	90	12	0	79	41
	2	13	6	11	9	24	5	0	18	10
NDTX4271-5R	9	26	6	6	26	71	2	0	30	20
	3	5	1	1	4	15	1	0	6	4
TX1523-1Ru/Y	13	16	8	14	16	14	14	0	70	18
	5	4	2	4	3	4	6	0	15	5
TX1674-1W/Y	11	22	22	9	---	18	6	0	75	20
	3	6	6	2	---	4	3	0	13	5
Mean	10	30	11	23	44	53	8	0	56	26
	3	7	3	5	7	13	3	0	12	6

Table 14. Specific Gravity

Clone	Specific Gravity									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	AB	KLM	COR	S E	S L	GR	
Dk. Red Norland	1.077	1.067	1.065	1.066	1.071	1.064	1.051	1.062	1.067	1.066
Red LaSoda	1.074	1.073	1.081	1.067	1.073	1.067	1.060	1.067	1.066	1.070
Yukon Gold	1.079	1.079	1.079	1.083	1.086	1.090	1.064	1.058	1.087	1.078
A92584-3BB	---	1.078	---	1.079	---	1.076	1.063	1.061	1.077	1.072
A92653-6R	1.088	---	---	1.081	1.081	1.092	1.051	1.058	1.081	1.076
A92657-1R	1.078	1.071	1.085	1.066	1.072	1.072	1.051	1.052	1.071	1.069
NDC5281-2	1.087	---	1.080	1.077	1.079	1.074	1.055	1.063	1.083	1.075
NDO4323-2R	1.084	1.072	1.086	1.076	1.076	1.075	1.060	1.055	1.075	1.073
NDTX4271-5R	1.079	1.072	1.069	1.070	1.071	1.068	1.051	1.063	1.068	1.068
TX1523-1Ru/Y	1.082	1.081	1.083	1.081	1.079	1.081	1.061	1.059	1.082	1.077
TX1674-1W/Y	1.089	1.086	1.092	1.088	---	1.084	1.063	1.054	1.087	1.080
Mean	1.082	1.075	1.080	1.076	1.076	1.077	1.057	1.059	1.077	1.073

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
	AB	COR	S E	S L	GR		KRN	TUL	SLV	AB	KLM	SPR E/L	GR	
Dk. Red Norland	7.4	8.0	5.2	6.5	7.1	6.8	2.0	2.0	2.0	2.0	2.0	3.5	3.0	2.4
Red LaSoda	10.9	8.8	5.4	4.9	9.1	7.8	1.5	1.8	2.0	2.3	2.0	5.0	2.0	2.4
Yukon Gold	7.1	7.9	5.8	5.1	7.8	6.7	2.0	2.0	2.0	2.0	2.0	3.0	3.0	2.3
A92584-3BB	3.8	3.7	3.0	4.3	4.4	3.8	---	1.5	---	2.0	---	3.5	2.0	2.3
A92653-6R	7.3	6.3	2.6	5.3	5.2	5.3	2.0	---	---	2.0	1.0	2.0	1.2	1.6
A92657-1R	9.5	8.3	3.9	5.5	6.9	6.8	2.0	1.3	2.0	2.5	1.5	3.0	2.0	2.0
NDC5281-2	4.3	6.8	3.1	5.2	3.7	4.6	2.5	---	1.0	1.3	1.0	4.0	2.7	2.1
NDO4323-2R	6.4	7.1	3.4	5.7	4.7	5.5	1.8	1.8	2.0	2.3	1.5	3.0	2.0	2.1
NDTX4271-5R	6.8	6.6	4.1	5.6	6.2	5.9	1.0	1.3	1.0	1.0	1.0	2.0	1.0	1.2
TX1523-1Ru/Y	7.3	6.5	4.5	5.4	10.3	6.8	2.0	2.0	1.0	2.3	1.9	2.0	3.0	2.0
TX1674-1W/Y	6.2	5.6	4.6	4.3	5.8	5.3	3.7	3.8	3.0	2.8	---	4.0	3.7	3.5
Mean	7.0	6.9	4.1	5.3	6.5	5.9	2.1	1.9	1.8	2.0	1.5	3.2	2.3	2.2

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
	AB	KLM	KRN	TUL	SPR	E/L		GR	KRN	TUL	SLV	AB	KLM	SPR	
Dk. Red Norland	3.0	1.8	3.5	3.3	2.5	---	2.8	3.4	2.3	2.0	3.5	3.3	2.0	---	2.8
Red LaSoda	1.0	1.0	2.5	1.5	1.0	---	1.4	2.0	2.3	1.0	3.0	2.0	1.8	---	2.0
Yukon Gold	4.0	3.5	3.8	4.7	4.0	---	4.0	---	---	---	---	---	---	---	---
A92584-3BB	4.5	---	---	5.0	5.0	---	4.8	---	---	---	---	---	---	---	---
A92653-6R	2.8	4.0	4.3	---	3.0	---	3.5	3.5	---	---	3.3	3.0	4.0	---	3.5
A92657-1R	3.0	4.0	4.5	4.5	3.5	---	3.9	3.5	3.8	3.0	3.3	4.5	3.5	---	3.6
NDC5281-2	4.3	4.8	4.8	---	4.0	---	4.5	3.5	---	5.0	4.3	4.0	5.0	---	4.4
NDO4323-2R	3.0	2.8	3.3	4.0	5.0	---	3.6	3.0	3.8	4.0	4.0	4.0	2.0	---	3.5
NDTX4271-5R	4.0	4.0	4.0	4.5	4.0	---	4.1	4.0	4.0	5.0	4.0	4.0	5.0	---	4.3
TX1523-1Ru/Y	4.3	3.5	3.3	4.0	5.0	---	4.0	---	---	---	---	---	---	---	---
TX1674-1W/Y	4.0	---	3.5	4.0	5.0	---	4.1	---	---	---	---	---	---	---	---
Mean	3.4	3.3	3.8	3.9	3.8	---	3.7	3.3	3.2	3.3	3.6	3.5	3.3	---	3.4

Table 17. Growth Cracks and Skinning

Clone	Growth Cracks (5 - none)						Skinning (5 - none)				
	CO	ID	OR	TX	WA	Mean	OR	TX	WA	ID	Mean
	SLV	AB	KLM	SPR E/L	GR		KLM	SPR E/L	GR	KMB	
Dk. Red Norland	4.0	5.0	3.8	5.0	4.0	4.4	---	4.0	3.7	2.5	3.4
Red LaSoda	4.0	3.5	3.0	4.3	3.0	3.6	---	4	3.7	1.7	3.1
Yukon Gold	5.0	4.3	5.0	5.0	4.0	4.7	---	3.5	4.3	3.0	3.6
A92584-3BB	---	5.0	---	5.0	5.0	5.0	---	4.3	3.0	3.5	3.6
A92653-6R	---	5.0	5.0	5.0	5.0	5.0	---	1.3	2.0	1.5	1.6
A92657-1R	3.0	4.5	4.0	5.0	2.5	3.8	---	3.5	3.0	2.8	3.1
NDC5281-2	5.0	4.8	5.0	5.0	5.0	5.0	---	3.3	4.0	3.8	3.7
NDO4323-2R	2.0	3.3	3.0	4.5	2.0	3.0	---	4.0	4.0	3.3	3.8
NDTX4271-5R	4.0	4.5	4.3	5.0	3.5	4.3	---	4.0	3.8	3.8	3.9
TX1523-1Ru/Y	4.0	5.0	5.0	5.0	3.5	4.5	---	4.3	3.7	3.8	3.9
TX1674-1W/Y	5.0	4.8	---	5.0	5.0	5.0	---	4.0	4.7	3.7	4.1
Mean	4.0	4.5	4.2	4.9	3.9	4.4	---	3.7	3.6	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	AB	KLM	COR	SPR E/L	GR	
Dk. Red Norland	0	0	0	13	18	5	0	3	5
Red LaSoda	8	25	20	20	13	3	1	58	18
Yukon Gold	0	8	0	6	3	5	0	5	3
A92584-3BB	---	0	---	8	---	3	0	0	2
A92653-6R	0	---	---	0	0	8	0	0	1
A92657-1R	0	0	0.0	3	0	0	0	3	1
NDC5281-2	0	---	0.0	0	0	3	0	0	0
NDO4323-2R	0	0	0.0	6	0	3	0	0	1
NDTX4271-5R	0	0	1.0	0	0	5	0	15	3
TX1523-1Ru/Y	0	0	0.0	5	0	3	0	0	1
TX1674-1W/Y	0	0	0.0	3	---	0	0	0	0
Mean	1	4	2	6	4	3	0	8	3

Table 19. Fresh Market Quality (Merit) Rating

Clone	Fresh market quality (1-poor, 5-best)					Mean
	CA		CO	ID	TX	
	KRN	TUL	SLV	AB	SPR E/L	
Dk. Red Norland	3.8	3.0	3.0	3.3	3.2	3.3
Red LaSoda	2.5	2.0	1.0	1.8	3.7	2.2
Yukon Gold	3.3	4.0	4.0	3.0	4.1	3.7
A92584-3BB	--	3.0	--	2.8	3.3	3.0
A92653-6R	2.8	--	--	2.8	2.7	2.8
A92657-1R	3.5	4.0	1.0	2.5	3.5	2.9
NDC5281-2	2.8	--	4.0	4.8	3.2	3.7
NDO4323-2R	3.5	3.5	2.0	3.5	3.2	3.1
NDTX4271-5R	4.5	3.8	4.0	4.3	4.3	4.2
TX1523-1Ru/Y	2.7	3.0	4.0	3.5	3.7	3.4
TX1674-1W/Y	2.3	2.8	3.0	3.0	3.3	2.9
Mean	3.2	3.2	2.9	3.2	3.5	3.2

Table 20. Miscellaneous Data on Tuber Quality

Clone	Tuber blight 1	Washington				Kimberly, Idaho					
		Culinary Quality ²				Mean					
		Boiling	Baking	Microwave	Total	Solids	Protein	Total Sugar	Reduc. Sugar	Vitamin C	TGA
Dk. Red Norland	60.0	20.3	16.8	17.3	54.4	18.7	5.5	1.05	0.03	33.8	2.0
Red LaSoda	50.0	19.0	17.3	16.5	52.8	18.4	5.6	1.68	0.05	33.8	2.7
Yukon Gold	50.0	19.0	20.5	20.5	60.0	23.0	5.8	0.88	0.03	43.4	2.7
A92584-3BB		19.3	12.8	21.0	53.1	21.2	5.8	0.73	0.02	34.8	2.0
A92653-6R	20.0	17.8	15.0	18.5	51.3	21.0	6.3	1.23	0.04	31.0	0.9
A92657-1R	28.0	17.3	16.3	16.0	49.6	17.4	5.9	1.48	0.04	26.4	1.7
NDC5281-2	30.0	18.5	17.5	16.8	52.8	19.2	5.7	0.91	0.03	32.8	3.1
NDO4323-2R	20.0	17.3	16.5	17.8	51.6	20.2	4.7	1.23	0.04	28.5	2.8
NDTX4271-5R	45.0	18.5	15.8	14.8	49.1	19.2	5.2	1.46	0.04	26.8	2.8
TX1523-1Ru/Y	40.0	17.0	22.8	16.0	55.8	21.9	4.7	0.91	0.03	39.7	3.5
TX1674-1W/Y	15.0	15.5	17.3	21.5	54.3	22.4	6.1	0.95	0.03	31.9	3.3
Mean	35.8	18.1	17.1	17.9	53.2	20.2	5.6	1.1	0.03	33.0	2.5

^{1/} % of tubers showing l. blight infection based on 10 randomly selected tubers/plot. Data courtesy Dr. A. 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	Disposition 2001
1	Dk. Red Norland	96	3.0	3.7	3.0	461	56	28	10	294	66	1.066	3.3	
2	Red LaSoda	90	2.1	3.6	3.3	424	42	38	7	198	49	1.070	2.2	
3	Yukon Gold	94	1.8	3.6	2.8	394	50	36	9	220	58	1.078	3.7	
4	A92584-3BB	98	3.2	3.0	3.4	371	51	7	38	330	89	1.072	3.0	
5	A92653-6R	92	2.5	4.0	4.0	391	55	23	19	277	74	1.076	2.8	
6	A92657-1R	83	2.3	3.2	3.3	391	52	34	9	225	61	1.069	2.9	
7	NDC5281-2	94	3.2	3.1	2.5	379	58	8	29	335	88	1.075	3.7	
8	NDO4323-2R	95	2.6	3.0	2.9	400	59	15	16	295	75	1.073	3.1	
9	NDTX4271-5R	92	2.5	3.2	2.7	436	62	22	12	320	74	1.068	4.2	
10	TX1523-1Ru/Y	93	2.7	3.4	3.0	370	54	31	10	226	64	1.077	3.4	
11	TX1674-1W/Y	95	2.6	3.5	3.5	371	60	19	16	278	77	1.080	2.9	
Mean		93	2.6	3.4	3.1	399	54	24	16	273	70	1.073	3.2	

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

No entries in 2001 Trial which will graduate