Description of Clones - 1999 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	***
A79543-4R	Bison	Sangre	Red-purple	Med	Med	Round	Dk. Red	CA	Fresh	OR	2
AO92657-3R	NDO2686-6R	NDO3503-2R	Purple	Lg	Med/Early	Round	Dk. Red	OR	Fresh	OR	2
CO89097-2	NDTX9-1068-11	DT6063-1R	Purple	Med/Lg	Med/Early	Oval	Red	CO	Fresh	CO	2
NDC4655-1	ND1618	Fontenot	Red-purple	Med	Early	Round	Red	CO	Fresh	CO	1
NDO2686-4R	ND1196-2R	Redsen	Purple	Med	Med	Oval	Bright Red	CA	Fresh	CA	3
NDO4300-1R	ND1196-2R	ND2225-1R	Purple	Med	Med	Round	Dk. Red	OR	Fresh	OR	2
NDO4588-5R	Reddale	ND2050-1R	Purple	Med	Med	Oval	Dk. Red	OR	Fresh	OR	2
NDO4592-3R	Reddale	ND3198-1R	Purple	Lg	Med	Oval	Dk. Red	OR	Fresh	OR	2

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	400-110-0	Machine	23-Feb	?	28-Jun	?
2. Tulelake California (TUL)	R. Voss, H. Phillips D. Kirby	Sprinkler	160-200-0	Machine	18-May	17-Sep	29-Sep	122
3. San Luis Valley Colorado (SLV)	D. Holm S. Thompson-Johns	Pivot	130-100-0	Machine	19-May	1-Sep	23-Sep	104
4. Kimberly Idaho (KMB)	S. Love M. Bain	Sprinkler	220-150-80-260	Machine	5-May	18-Aug	19-Aug	105
5. Klamath Falls Oregon (KLM)	K. Rykbost B. Charlton	Sprinkler	160-80-80-140	Machine	19-May	6-Sep	1-Oct	110
6. Corvallis Oregon (COR)	A. Mosley S. Yilma	Sprinkler	150-150-150-190	Hand	15-May	?	17-Sep	?
7. Springlake Texas (SPR)	C. Miller, J. Koym D. Scheuring	Pivot	?	Hand	11-Mar	21-Jul	3-Aug	132
8. Granger Washington (GR)	R. Thornton, J. Rupp G. Newberry	Furrow	180-160-120-40	Machine	18-Mar	14-Jul	21-Jul	118

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

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

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

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

Table 4. Percent Stand and Stems/Hill

	Percent Stand								Stems/Hill				
	CA		CO	ID	OR	TX	WA		CO	ID	WA	TX	
Clone	KRN	TUL	SLV	KMB	KLM	SPR	GR	Mean	SLV	KMB	GR	SPR	Mean
Dk. Red Norland	83	84	99	99	98	92	72	90	5.5	3.9	5.6	2.0	4.3
Red LaSoda	85	92	99	99	88	97	96	94	2.7	2.7	4.3	1.7	2.9
A79543-4R	94	98	---	96	97	95	100	97	---	3.4	3.9	1.7	3.0
AO92657-3R	83	93	---	100	96	95	100	95	---	3.9	4.5	1.8	3.4
CO89097-2	93	88	97	99	93	92	96	94	4.5	3.1	5.9	2.1	3.9
NDC4655-1	91	96	91	94	97	88	98	94	3.4	2.9	6.1	2.1	3.6
NDO2686-4R	89	93	---	94	80	78	70	84	---	4.2	2.4	2.4	3.0
NDO4300-1R	83	70	---	97	92	95	94	89	---	3.7	4.5	1.6	3.3
NDO4588-5R	94	95	---	99	96	89	97	95	---	3.3	2.1	1.9	2.4
NDO4592-3R	41	83	---	67	89	95	96	79	---	1.9	4.3	1.9	2.7
Mean	84	89	97	94	93	92	92	91	4.0	3.3	4.4	1.9	3.2

Table 5. Vine Vigor and Vine Maturity

	Vine Size								Vine Maturity							
	CA		CO	ID	OR	TX	WA		CA		CO	ID	OR	TX	WA	
Clone	KRN	TUL	SLV	KMB	KLM	SPR	GR	Mean	KRN	TUL	SLV	KMB	KLM	SPR	GR	Mean
Dk. Red Norland	2.5	2.5	2.8	3.0	5.0	2.7	5.0	3.4	2.0	3.3	2.3	3.0	3.0	2.7	5.0	3.0
Red LaSoda	3.0	3.3	3.3	2.8	3.5	3.6	2.0	3.1	3.0	1.8	2.3	3.3	3.8	3.5	5.0	3.2
A79543-4R	2.5	3.0	---	2.5	3.8	2.9	3.5	3.0	2.5	2.8	---	3.0	5.0	3.2	5.0	3.6
AO92657-3R	2.5	3.0	---	2.0	3.8	1.9	1.0	2.4	2.0	3.3	---	2.8	2.5	1.9	5.0	2.9
CO89097-2	3.5	3.0	4.0	3.0	4.3	3.3	2.0	3.3	3.5	4.3	3.0	4.0	4.0	3.5	5.0	3.9
NDC4655-1	3.0	4.3	2.8	2.0	4.0	2.3	3.0	3.1	3.0	3.8	3.0	3.0	3.3	2.4	5.0	3.4
NDO2686-4R	2.5	3.8	---	2.0	4.0	3.7	2.0	3.0	4.0	3.0	---	2.0	2.8	3.9	5.0	3.5
NDO4300-1R	2.3	2.8	---	2.0	3.5	2.4	2.0	2.5	3.0	2.5	---	2.0	2.5	2.6	5.0	2.9
NDO4588-5R	3.0	3.3	---	2.5	3.5	2.6	2.0	2.8	4.0	3.3	---	3.3	3.5	2.8	5.0	3.7
NDO4592-3R	2.5	3.5	---	2.5	4.0	2.3	1.0	2.6	3.0	3.0	---	3.0	3.3	2.7	5.0	3.3
Mean	2.7	3.3	3.2	2.4	3.9	2.8	2.4	2.9	3.0	3.1	2.7	2.9	3.4	2.9	5.0	3.3

Table 6. Total Yield

	Total Yield (cwt/ A)								
	CA		CO	ID	OR		TX	WA	
Clone	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	Mean
Dk. Red Norland	607	440	489	501	569	457	243	370	460
Red LaSoda	556	305	491	433	532	494	194	395	425
A79543-4R	385	323	---	373	513	473	192	375	376
AO92657-3R	464	383	---	369	515	465	198	392	398
CO89097-2	645	413	463	446	615	492	252	364	461
NDC4655-1	517	314	338	313	505	433	204	331	369
NDO2686-4R	625	388	---	381	458	378	223	264	388
NDO4300-1R	449	359	---	421	518	402	250	328	390
NDO4588-5R	519	406	---	439	511	435	244	353	415
NDO4592-3R	263	328	---	258	522	402	129	351	322
Mean	503	366	445	393	526	443	213	352	400

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

	Total Yield U.S. NO. 1S > 4 OZ (CWT/A & %)								
	CA		CO	ID	OR		TX	WA	
Clone	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	Mean
Dark Red Norland	581	349	351	451	479	310	188	258	371
	96	79	72	90	84	68	77	70	80
Red LaSoda	498	136	366	385	388	290	153	304	315
	90	45	74	89	73	59	79	77	73
A79543-4R	347	182	---	181	413	313	109	227	253
	90	56	---	49	81	66	57	61	66
AO92657-3R	430	315	---	324	472	322	139	330	333
	93	82	---	88	92	69	70	84	83
CO89097-2	598	341	352	399	513	313	209	279	376
	93	83	76	89	83	64	83	77	81
NDC4655-1	468	231	214	225	416	240	119	201	264
	91	74	63	72	82	56	58	61	70
NDO2686-4R	583	292	---	196	362	220	155	161	281
	93	75	---	51	79	57	70	61	69
NDO4300-1R	406	303	---	290	417	245	191	206	294
	90	84	---	69	81	61	76	63	75
NDO4588-5R	481	329	---	393	457	311	195	261	347
	93	81	---	90	89	71	80	74	83
NDO4592-3R	229	223	---	201	419	262	88	219	234
	87	68	---	78	80	64	68	62	72
Mean	462	270	321	305	434	283	155	245	307
	92	73	71	77	82	64	72	69	75

Table 8. Yield and Percent Marketable (Total US #1 + <4 oz) (cwt/A + %).

	Total Yield U.S. NO. 1s (including <4 oz)								
	CA		CO	ID	OR		TX	WA	
Clone	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	Mean
Dark Red Norland	593	385	478	489	507	325	237	315	416
	98	88	98	98	89	71	98	85	91
Red LaSoda	509	156	427	404	415	301	187	346	343
	92	51	87	93	78	61	96	88	81
A79543-4R	383	304	---	370	507	341	188	360	350
	99	94	---	99	99	72	98	96	94
AO92657-3R	460	378	---	366	511	337	198	382	376
	99	99	---	99	99	72	100	97	95
CO89097-2	615	370	450	438	546	335	248	349	419
	95	90	97	98	89	68	98	96	91
NDC4655-1	510	270	330	299	459	264	194	288	327
	99	86	98	96	91	61	95	87	89
NDO2686-4R	609	332	---	379	453	255	209	247	355
	98	86	---	99	99	67	94	93	91
NDO4300-1R	434	347	---	413	470	273	248	311	357
	96	97	---	98	91	68	99	95	92
NDO4588-5R	510	378	---	428	486	329	242	325	385
	98	93	---	97	95	76	99	92	93
NDO4592-3R	242	292	---	242	477	285	124	313	282
	94	89	---	94	91	71	96	89	89
Mean	487	321	421	383	483	305	208	324	361
	97	87	95	97	92	69	97	92	91

Table 9. Yield and Percent Bs

	Yield Bs (cwt/A & %)								
	CA		CO	ID	OR		TX	WA	
Clone	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	Mean
Dark Red Norland	11	36	127	38	28	15	49	57	45
	2	8	26	8	5	3	20	15	11
Red LaSoda	11	20	61	19	27	11	34	42	28
	2	7	12	4	5	2	18	11	8
A79543-4R	35	123	---	189	94	28	79	133	97
	9	38	---	51	18	6	41	35	28
AO92657-3R	29	63	---	42	39	15	58	52	43
	6	16	---	11	8	3	29	13	12
CO89097-2	17	29	98	39	33	22	39	70	43
	3	7	21	9	5	4	15	19	10
NDC4655-1	43	39	116	74	43	24	75	87	63
	8	12	34	24	9	6	37	26	20
NDO2686-4R	26	40	---	183	91	35	54	86	74
	4	10	---	48	20	9	24	33	21
NDO4300-1R	28	43	---	123	53	28	57	105	62
	6	12	---	29	10	7	23	32	17
NDO4588-5R	29	48	---	35	29	18	47	64	39
	6	12	---	8	6	4	19	18	10
NDO4592-3R	13	69	---	41	58	23	36	94	48
	5	21	---	16	11	6	28	27	16
Mean	24	51	101	78	50	22	53	79	54
	5	14	23	21	10	5	25	23	15

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

	Yield U.S. No. 1s 4 - 6 oz (cwt/A & %)							
	CA		ID	OR		TX	WA	
Clone	KRN	TUL	KMB	KLM	COR	SPR	GR	Mean
Dark Red Norland	60	120	54	72	36	64	66	67
	10	27	11	13	8	26	18	16
Red LaSoda	57	22	31	47	59	59	73	50
	10	7	7	9	12	30	18	13
A79543-4R	127	123	103	161	93	95	110	116
	33	38	28	31	20	50	29	33
AO92657-3R	80	146	64	106	83	70	87	91
	17	38	17	21	18	35	22	24
CO89097-2	78	63	63	84	48	78	105	74
	12	15	14	14	10	31	29	18
NDC4655-1	225	111	76	91	54	63	95	102
	44	35	24	18	12	31	29	28
NDO2686-4R	106	106	134	149	61	80	68	101
	17	27	35	33	16	36	26	27
NDO4300-1R	67	98	160	118	76	100	104	103
	15	27	38	23	19	40	32	28
NDO4588-5R	88	125	72	97	55	100	81	88
	17	31	16	19	13	41	23	23
NDO4592-3R	35	74	46	128	78	35	84	69
	13	23	18	25	19	27	24	21
Mean	92	99	80	105	64	74	87	86
	19	27	21	21	15	35	25	23

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

	Yield U.S. No. 1s 6 - 10 oz (cwt/A & %)							
	CA		ID	OR		TX	WA	
Clone	KRN	TUL	KMB	KLM	COR	SPR	GR	Mean
Dark Red Norland	308	66	187	154	166	57	116	151
	51	15	37	27	36	23	31	31
Red LaSoda	253	29	125	104	134	57	139	120
	46	10	29	20	27	29	35	28
A79543-4R	199	35	60	170	160	8	102	105
	52	11	16	33	34	4	27	25
AO92657-3R	256	68	135	180	118	43	173	139
	55	18	37	35	25	21	44	34
CO89097-2	279	83	209	155	166	50	151	156
	43	20	47	25	34	20	41	33
NDC4655-1	208	70	87	158	141	29	95	113
	40	22	28	31	33	14	29	28
NDO2686-4R	336	70	58	157	109	35	83	121
	54	18	15	34	29	16	31	28
NDO4300-1R	216	93	115	166	106	49	81	118
	48	26	27	32	26	20	25	29
NDO4588-5R	299	94	187	169	148	49	153	157
	58	23	43	33	34	20	43	36
NDO4592-3R	98	39	82	162	115	32	104	90
	37	12	32	31	29	25	30	28
Mean	245	65	125	158	136	41	120	127
	48	18	31	30	31	19	34	30

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

	Total Yield U.S. NO. 1S > 10 oz (CWT/A & %)								
	CA		CO	ID	OR		TX	WA	
Clone	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	Mean
Dark Red Norland	213	163	50	210	253	108	68	77	143
	35	37	10	42	44	24	28	21	30
Red LaSoda	188	86	97	229	237	96	37	92	133
	34	28	20	53	45	19	19	23	30
A79543-4R	21	23	---	18	82	59	5	15	32
	5	7	---	5	16	12	3	4	7
AO92657-3R	93	101	---	125	186	121	27	71	103
	20	26	---	34	36	26	14	18	25
CO89097-2	241	195	71	127	274	98	81	22	139
	37	47	15	28	45	20	32	6	29
NDC4655-1	35	50	24	62	167	45	27	11	53
	7	16	7	20	33	10	13	3	14
NDO2686-4R	141	117	---	4	56	51	40	11	60
	23	30	---	1	12	13	18	4	14
NDO4300-1R	123	112	---	15	133	64	42	21	73
	27	31	---	4	26	16	17	6	18
NDO4588-5R	93	110	---	134	191	108	46	27	101
	18	27	---	31	37	25	19	8	24
NDO4592-3R	96	109	---	73	129	69	21	31	75
	37	33	---	28	25	17	16	9	24
Mean	124	107	61	100	171	82	39	38	91
	24	28	13	25	32	18	18	10	21

Table 13. Yield and Percent Culls

	Yield Culls (cwt/A & %)								
	CA		CO	ID	OR		TX	WA	
Clone	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	Mean
Dark Red Norland	14	55	11	12	62	132	6	54	43
	2	13	2	2	11	29	2	15	10
Red LaSoda	47	149	65	29	118	193	7	49	82
	8	49	13	7	22	39	4	12	19
A79543-4R	2	19	---	3	6	132	4	15	26
	1	6	---	1	1	28	2	4	6
AO92657-3R	4	5	---	3	3	129	1	11	22
	1	1	---	1	1	28	0	3	5
CO89097-2	30	43	13	8	69	158	5	16	43
	5	10	3	2	11	32	2	4	9
NDC4655-1	7	45	8	14	71	169	10	43	46
	1	14	2	4	14	39	5	13	12
NDO2686-4R	16	56	---	3	5	123	14	17	33
	3	14	---	1	1	33	6	7	9
NDO4300-1R	15	12	---	7	48	130	2	17	33
	3	3	---	2	9	32	1	5	8
NDO4588-5R	9	29	---	10	25	105	2	29	30
	2	7	---	2	5	24	1	8	7
NDO4592-3R	21	36	---	17	45	116	5	38	40
	8	11	---	7	9	29	4	11	11
Mean	17	45	24	11	45	139	6	29	40
	3	13	5	3	8	31	3	8	10

Table 14. Specific Gravity

	Specific Gravity								
	CA		CO	ID	OR		TX	WA	
Clone	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	Mean
Dk. Red Norland	1.071	1.063	1.076	1.068	1.063	1.082	1.059	1.077	1.070
Red LaSoda	1.072	1.050	1.081	1.072	1.063	1.079	1.069	1.077	1.070
A79543-4R	1.080	1.068	---	1.071	1.067	1.084	1.069	1.082	1.074
AO92657-3R	1.071	1.064	---	1.067	1.060	1.081	1.062	1.078	1.069
CO89097-2	1.075	1.060	1.086	1.081	1.066	1.090	1.066	1.083	1.076
NDC4655-1	1.072	1.066	1.079	1.072	1.066	1.079	1.059	1.089	1.073
NDO2686-4R	1.070	1.058	---	1.071	1.065	1.077	1.065	1.076	1.069
NDO4300-1R	1.069	1.055	---	1.068	1.061	1.071	1.065	1.074	1.066
NDO4588-5R	1.077	1.065	---	1.068	1.059	1.078	1.067	1.077	1.070
NDO4592-3R	1.069	1.063	---	1.075	1.067	1.087	1.057	1.089	1.072
Mean	1.073	1.061	1.081	1.071	1.064	1.081	1.064	1.080	1.071

Table 15. Tuber Size and Shape

	Average Tuber Size (oz)					Tuber Shape (1 - round, 5 - long)							
	ID	OR	TX	WA		CA		CO	ID	OR	TX	WA	
Clone	KMB	COR	SPR	GR	Mean	KRN	TUL	SLV	KMB	KLM	SPR	GR	Mean
Dk. Red Norland	7.3	5.4	3.2	5.6	5.4	2.7	2.0	1.0	3.0	3.0	---	2.2	2.3
Red LaSoda	8.9	6.2	3.3	6.2	6.2	1.8	2.0	2.0	3.0	3.0	---	2.0	2.3
A79543-4R	3.2	4.0	1.9	3.9	3.3	1.0	1.0	---	1.0	1.0	---	1.3	1.1
AO92657-3R	6.0	5.3	3.1	5.8	5.1	1.0	1.0	---	1.8	2.0	---	1.7	1.5
CO89097-2	6.6	5.2	3.2	5.0	5.0	2.8	2.0	2.0	2.3	2.5	---	2.3	2.3
NDC4655-1	5.0	4.7	1.7	4.6	4.0	1.3	2.0	3.0	2.5	3.0	---	2.7	2.4
NDO2686-4R	3.4	4.2	2.5	4.1	3.6	2.0	2.0	---	2.0	1.5	---	1.7	1.8
NDO4300-1R	4.0	4.1	2.5	4.2	3.7	2.0	2.0	---	1.8	2.0	---	1.8	1.9
NDO4588-5R	6.3	4.9	2.4	5.2	4.7	2.0	2.0	---	2.3	2.0	---	1.8	2.0
NDO4592-3R	5.7	4.5	2.3	4.5	4.3	2.3	3.0	---	2.8	2.5	---	1.5	2.4
Mean	5.6	4.9	2.6	4.9	4.5	1.9	1.9	2.0	2.3	2.3	---	1.9	2.0

Table 16. Eye Depth and Skin Color

	Eye Depth (5 - shallow)							Skin Color (1 - Pale, 5 - Deep Red)							
	ID	OR	CA		TX	WA		CA		CO	ID	OR	TX	WA	
Clone	KMB	KLM	KRN	TUL	SPR	GR	Mean	KRN	TUL	SLV	KMB	KLM	SPR	GR	Mean
Dk. Red Norland	3.0	2.8	3.7	2.0	---	2.7	2.8	3.3	3.3	2.0	3.0	3.0	---	2.0	2.8
Red LaSoda	1.8	1.0	1.8	5.0	---	1.0	2.1	2.3	2.5	1.0	3.0	2.3	---	1.3	2.1
A79543-4R	3.5	3.3	4.0	2.0	---	3.7	3.3	3.8	3.0	---	4.8	5.0	---	1.3	3.3
AO92657-3R	4.0	3.0	4.0	3.0	---	2.7	3.3	4.0	3.0	---	3.8	4.5	---	2.0	3.4
CO89097-2	4.3	4.0	4.3	2.0	---	4.7	3.9	4.0	3.0	3.0	4.0	4.0	---	2.0	3.3
NDC4655-1	4.5	3.0	4.0	2.0	---	4.7	3.6	4.0	3.5	4.0	4.8	5.0	---	2.0	3.9
NDO2686-4R	4.3	4.0	4.3	3.0	---	3.3	3.8	3.8	2.0	---	4.0	4.8	---	2.0	3.2
NDO4300-1R	4.3	4.0	4.8	2.0	---	3.7	3.8	4.0	3.0	---	3.8	5.0	---	4.7	4.2
NDO4588-5R	3.5	4.0	3.8	2.0	---	3.3	3.3	4.3	3.0	---	3.5	5.0	---	1.7	3.5
NDO4592-3R	3.8	3.0	4.5	1.0	---	3.3	3.1	3.0	3.0	---	3.0	5.0	---	1.3	3.1
Mean	3.7	3.2	3.9	2.4	---	3.3	3.3	3.7	2.9	2.5		4.4	---	2.0	3.3

Table 17. Growth Cracks and Skinning

	Growth Cracks (5 - none)						Skinning (5 - none)			
Clone	CO SLV	ID KMB	OR KLM	TX SPR	WA GR	Mean	OR KLM	WA GR	ID KMB	Mean
Dk. Red Norland	4.0	3.8	2.5	---	4.7	3.8	3.8	2.7	2.3	2.9
Red LaSoda	2.0	4.3	4.3	---	3.9	3.6	3.5	2.5	2.3	2.8
A79543-4R	---	4.8	4.6	---	4.7	4.7	4.5	4.0	4.0	4.2
AO92657-3R	---	5.0	5.0	---	5.0	5.0	4.0	4.7	3.5	4.1
CO89097-2	5.0	5.0	3.8	---	5.0	4.7	3.9	4.0	2.5	3.5
NDC4655-1	4.0	5.0	3.5	---	4.7	4.3	2.5	3.3	3.5	3.1
NDO2686-4R	---	5.0	4.9	---	5.0	5.0	4.0	1.3	3.3	2.9
NDO4300-1R	---	4.8	4.1	---	4.7	4.5	4.0	4.7	3.3	4.0
NDO4588-5R	---	5.0	4.4	---	5.0	4.8	3.8	4.0	3.5	3.8
NDO4592-3R	---	5.0	4.0	---	5.0	4.7	4.0	4.0	3.0	3.7
Mean	3.8	4.8	4.1	---	4.8	4.5	3.8	3.5	3.1	3.5

Table 18. % HH and BC

	% Hollow Heart & Brown Center								
	CA		CO	ID	OR		TX	WA	
Clone	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	Mean
Dk. Red Norland	0	8	0	5	28	8	---	0	7
Red LaSoda	0	0	13	10	15	3	---	3	6
A79543-4R	0	17	---	13	18	0	---	0	8
AO92657-3R	0	0	---	0	0	3	---	0	1
CO89097-2	0	8	0	0	3	3	---	0	2
NDC4655-1	0	0	0	0	0	0	---	0	0
NDO2686-4R	0	0	---	0	0	0	---	0	0
NDO4300-1R	0	8	---	5	3	3	---	0	3
NDO4588-5R	0	0	---	13	5	0	---	0	3
NDO4592-3R	0	0	---	4	13	0	---	0	3
Mean	0	4	3	5	9	2	---	0	3

Table 19 Fresh Market Quality (Merit) Rating.

	Fresh market quality (1-poor, 5-best)					
	CA		CO	ID	TX	
Clone	KRN	TUL	SLV	KMB	SPR	Mean
Dk. Red Norland	3.0	2.7	4.0	2.0	3.8	3.1
Red LaSoda	2.0	1.7	1.0	1.8	3.6	2.0
A79543-4R	4.0	3.0	--	4.8	2.8	3.7
AO92657-3R	3.7	3.0	--	3.5	3.0	3.3
CO89097-2	4.0	3.0	5.0	3.5	2.8	3.7
NDC4655-1	4.0	3.0	4.0	3.3	3.2	3.5
NDO2686-4R	3.5	2.5	--	3.8	2.8	3.2
NDO4300-1R	3.8	3.7	--	3.8	3.6	3.7
NDO4588-5R	4.0	3.5	--	3.5	3.0	3.5
NDO4592-3R	3.0	3.0	--	2.8	3.6	3.1
Mean	3.5	2.9	3.5	3.3	3.2	3.3

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	5.0	18.7	21.0	21.5	61.2	18.6	5.4	0.090	0.210	20.1	3.9
Red LaSoda	2.5	20.0	22.3	17.0	59.3	20.0	5.2	0.100	0.200	24.7	3.2
A79543-4R	---	18.0	20.7	20.0	58.7	19.6	4.8	0.170	0.340	19.9	12.4
AO92657-3R	5.0	16.7	22.0	22.0	60.7	19.2	5.1	0.040	0.190	24.9	3.1
CO89097-2	12.5	17.3	18.0	19.5	54.8	22.1	5.5	0.070	0.270	20.5	3.3
NDC4655-1	---	20.7	18.3	23.0	62.0	19.9	5.1	0.070	0.260	24.3	3.2
NDO2686-4R	---	18.7	20.0	20.0	58.7	20.3	4.6	0.040	0.140	20.7	6.5
NDO4300-1R	0.0	18.0	19.7	20.5	58.2	19.6	4.7	0.060	0.180	26.4	5.2
NDO4588-5R	2.5	19.0	20.3	23.0	62.3	19.6	4.9	0.050	0.310	24.2	4.1
NDO4592-3R	10.0	19.0	22.0	24.0	65.0	21.3	4.8	0.130	0.280	21.7	7.1
Mean	5.4	18.6	20.4	21.1	60.1	17.9	6.3	0.043	0.216	29.5	3.5

[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

		Field Data				Yield Qualities						Quality	
No.	Clone	% Stand	Stems/ hill	Vine Size	Vine Mat.	Total Yield	% #1s	% >10	% <4	Yield Mark[1]	% Mark[1]	Specific gravity	Fresh Merit
1	Dk. Red Norland	90	4.3	3.4	3.0	460	80	30	11	416	91	1.070	3.1
2	Red LaSoda	94	2.9	3.1	3.2	425	73	30	8	343	81	1.070	2.0
3	A79543-4R	97	3.0	3.0	3.6	376	66	7	28	350	94	1.074	3.7
4	AO92657-3R	95	3.4	2.4	2.9	398	83	25	12	376	95	1.069	3.3
5	CO89097-2	94	3.9	3.3	3.9	461	81	29	10	419	91	1.076	3.7
6	NDC4655-1	94	3.6	3.1	3.4	369	70	14	20	327	89	1.073	3.5
7	NDO2686-4R	84	3.0	3.0	3.5	388	69	14	21	355	91	1.069	3.2
8	NDO4300-1R	89	3.3	2.5	2.9	390	75	18	17	357	92	1.066	3.7
9	NDO4588-5R	95	2.4	2.8	3.7	415	83	24	10	385	93	1.070	3.5
10	NDO4592-3R	79	2.7	2.6	3.3	322	72	24	16	282	89	1.072	3.1
Mean		91	3.2	2.9	3.3	400	75	21	15	361	91	1.071	3.3

[1] Marketable includes U.S. No. 1's + <4 oz.