

**Description of Clones - 1998 Western Regional Red-skinned Trial**

Clone/Variety	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Entered By	Use	Seed	Year
	Female	Male									
Red LaSoda	Triumph	Katahdin	Red-purple	Med	Med	Oval	Lt. Red	Check	Fresh	OR	***
Dk. Red Norland	RedKote	ND626	Red-purple	Sm	Early	Oval	Dk. Red	Check	Fresh	OR	***
Sangre	Viking	A6356-9	Red-purple	Med	Med	Round	Dk. Red	Check	Fresh	OR	***
A79543-4R	Bison	Sangre	Red-purple	Med	Med	Round	Dk. Red	CA	Fresh	OR	1
AO92657-3R	NDO2686-6R	NDO3503-2R		Lg	Med/Early	Round	Dk. Red	OR	Fresh	OR	1
CO89097-2	NDTX9-1068-11	DT6063-1R	Purple	Med/Lg	Med/Early	Oval	Red	CO	Fresh	CO	1
COO86107-1R	?	?	Purple	Med/Lg	Med	Rd/Oval	Dk. Red	OR	Fresh	OR	3
DT6063-1R	ND4750-2R	LA1859	Purple	Med	Med	Oval	Dk. Red	CA	Fresh	OR/CO	3
NDO2438-6R	Redsen	ND1196-2R	Purple	Med	Med	Oval	Dk. Red	OR	Fresh	OR	3
NDO2686-4R	ND1196-2R	Redsen		Med	Med	Oval	Bright Red	CA	Fresh	CA	1
NDO4300-1R	ND1196-2R	ND2225-1R		Med	Med	Round	Dk. Red	OR	Fresh	OR	1
NDO4588-5R	Reddale	ND2050-1R		Med	Med	Oval	Dk. Red	OR	Fresh	OR	1
NDO4592-3R	Reddale	ND3198-1R		Lg	Med	Oval	Dk. Red	OR	Fresh	OR	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	83-75-75-9	Machine	18-Feb	?	22-Jun	?
2. Tulelake California (TUL)	R. Voss, H. Phillips D. Kirby	Sprinkler	140-108-108	Machine	21-May	4-Sep	29-Sep	106
3. San Luis Valley Colorado (SLV)	D. Holm S. Thompson-Johns	Pivot	170-100-0	Machine	15-May	28-Aug	29-Sep	105
4. Kimberly Idaho (KMB)	S. Love M. Bain	Sprinkler	150-0-50	Machine	27-Apr	7-Aug	10-Aug	105
5. Klamath Falls Oregon (KLM)	K. Rykbost B. Charlton	Sprinkler	160-80-80-140	Machine	9-Jun	19-Sep	2-Oct	102
6. Corvallis Oregon (COR)	A. Mosley, S. Yilma H. Nott	Sprinkler	150-150-150-190	Hand	2-Jun	11-Sep	24-Sep	101
7. Springlake Texas (SPR)	C. Miller, J. Koym D. Scheuring	Pivot	380-30-30	Hand	29-Mar	15-Jul	3-Aug	108
8. Granger Washington (GR)	R. Thornton, J. Rupp G. Newberry	Furrow	185-160-120-40-5	Machine	18-Mar	17-Jun	7-Jul	91

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

Item	CA		CO	ID	OR		TX	WA
	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR
<b>Plot Information:</b>								
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
<b>Soil Type:</b>								
Fine sand								
Fine sandy loam					x		x	
Loamy fine sand				x				
Sandy loam	x		x			x		x
Silt loam								
Organic - 8%		x						
<b>Fungicides:</b>								
Bravo 720		x		x	x		x	
Bravo Wthr. Stk.	x		x					
TOPS					x		x	
Ridomil MZ					x			
Mancozeb					x			
Curzate								
Kocide					x		x	
Dithane	x	x		x			x	
Champ			x					
Maxim							x	
SuperTin			x					
GreenStar	x							
<b>Insecticides:</b>								
Admire								
Asana								
Dyfonate							x	
DiSyston					x		x	
Ambush								x
Monitor			x		x			
Temik				x				
Sevin XLR				x				
Sevin 4F				x				
M Trac								
Pounce		x						



**Table 4. Percent Stand and Stems/Hill**

Clone	Percent Stand								Stems/Hill			
	CA		CO	ID	OR	TX	WA	Mean	CO	ID	WA	Mean
	KRN	TUL	SLV	KMB	KLM	SPR	GR		SLV	KMB	GR	
Red LaSoda	82	91	100	96	93	100	99	94	2.9	2.4	4.5	3.3
Dk. Red Norland	70	82	98	93	96	96	98	90	4.3	2.4	2.1	2.9
Sangre	94	94	98	93	98	97	69	92	3.0	1.6	0.9	1.8
A79543-4R	88	99	---	96	98	97	95	96	---	3.1	1.9	2.5
AO92657-3R	82	56	---	92	93	97	86	84	---	3.3	2.5	2.9
CO89097-2	87	95	97	95	94	93	99	94	3.8	3.0	2.2	3.0
COO86107-1R	84	93	97	90	98	99	98	94	3.2	2.4	1.9	2.5
DT6063-1R	82	94	98	96	98	95	100	95	3.6	2.4	1.8	2.6
NDO2438-6R	91	88	94	95	98	92	95	93	3.2	2.4	2.5	2.7
NDO2686-4R	93	97	---	97	95	96	100	96	---	4.8	4.4	4.6
NDO4300-1R	75	96	---	94	90	96	95	91	---	2.9	1.9	2.4
NDO4588-5R	65	74	---	88	94	95	96	85	---	2.2	1.8	2.0
NDO4592-3R	77	95	---	90	98	91	99	92	---	2.0	2.0	2.0
Mean	82	89	97	93	96	96	95	92	3.4	2.7	2.3	2.7

**Table 5. Vine Vigor and Vine Maturity**

Clone	Vine Size							Vine Maturity						
	CA		CO	OR	TX	WA	Mean	CA		CO	OR	TX	WA	Mean
	KRN	TUL	SLV	KLM	SPR	GR		KRN	TUL	SLV	KLM	SPR	GR	
Red LaSoda	3.0	4.0	3.0	3.5	3.3	3.0	3.3	2.0	2.3	3.0	3.3	3.0	5.0	3.1
Dk. Red Norland	4.0	4.0	2.0	4.3	3.2	1.7	3.2	3.0	2.5	2.5	3.5	2.8	5.0	3.2
Sangre	3.0	4.0	4.0	3.0	4.0	2.3	3.4	4.0	3.0	3.5	5.0	4.0	5.0	4.1
A79543-4R	4.0	3.0	---	3.3	3.1	2.7	3.2	2.0	1.3	---	3.3	3.2	5.0	3.0
AO92657-3R	3.0	2.5	---	4.8	2.5	1.3	2.8	1.0	1.3	---	2.0	2.5	5.0	2.4
CO89097-2	4.0	4.0	4.0	4.3	4.0	3.0	3.9	3.0	3.0	3.8	3.3	4.0	5.0	3.7
COO86107-1R	3.0	3.0	2.3	4.0	3.0	2.5	3.0	1.0	1.0	3.0	3.0	2.7	5.0	2.6
DT6063-1R	4.0	4.3	4.0	3.5	4.0	2.0	3.6	3.0	2.8	3.3	4.0	3.7	5.0	3.6
NDO2438-6R	3.0	3.3	4.0	4.0	3.1	2.0	3.2	1.0	1.5	3.0	3.3	3.0	5.0	2.8
NDO2686-4R	4.0	3.0	---	4.5	3.0	2.0	3.3	1.0	1.8	---	3.0	3.0	4.5	2.7
NDO4300-1R	3.0	2.8	---	3.3	3.0	1.7	2.8	2.0	1.5	---	3.5	2.8	4.5	2.9
NDO4588-5R	4.0	3.0	---	3.5	3.3	3.0	3.4	2.0	1.8	---	2.8	2.7	5.0	2.9
NDO4592-3R	3.0	3.3	---	3.8	3.0	3.0	3.2	1.0	2.3	---	3.3	2.8	5.0	2.9
Mean	3.5	3.4	3.3	3.8	3.3	2.3	3.3	2.0	2.0	3.2	3.3	3.1	4.9	3.1

**Table 6. Total Yield**

Clone	Total Yield (cwt/A)								Mean
	CA		CO	ID	OR		TX	WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	
Red LaSoda	418	395	563	233	459	438	264	295	383
Dk. Red Norland	554	388	530	360	449	476	221	289	408
Sangre	496	369	571	171	410	538	142	134	354
A79543-4R	306	390	---	227	439	---	139	236	290
AO92657-3R	216	306	---	334	499	364	349	295	338
CO89097-2	426	396	560	381	491	472	326	297	419
COO86107-1R	274	404	372	201	412	436	141	238	310
DT6063-1R	307	424	538	301	447	467	267	227	372
NDO2438-6R	248	384	553	258	479	451	252	272	362
NDO2686-4R	362	459	---	367	470	---	294	213	361
NDO4300-1R	363	461	---	323	480	446	364	285	389
NDO4588-5R	389	447	---	313	440	483	272	311	379
NDO4592-3R	252	351	---	256	446	302	335	296	320
Mean	355	398	527	287	455	443	259	261	360

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

Clone	Total Yield U.S. NO. 1S > 4 OZ (CWT/A & %)								Mean
	CA		CO SLV	ID KMB	OR		TX SPR	WA GR	
	KRN	TUL			KLM	COR			
Red LaSoda	277	276	414	188	280	322	227	258	280
	66	70	73	81	61	73	86	87	75
Dark Red Norland	434	339	438	262	321	379	195	257	328
	78	87	83	73	71	79	88	89	81
Sangre	349	318	481	98	280	408	117	125	272
	70	87	84	57	68	76	82	94	77
A79543-4R	263	276	---	69	304	---	62	224	200
	86	71	---	30	69	---	45	95	66
AO92657-3R	188	278	---	203	422	269	300	287	278
	87	91	---	61	85	74	86	97	83
CO89097-2	352	356	465	290	383	376	261	277	345
	83	90	83	76	78	80	80	93	83
COO86107-1R	252	380	319	110	304	347	110	220	255
	92	94	86	55	74	80	78	92	81
DT6063-1R	250	371	462	232	304	372	229	179	300
	82	88	86	77	68	80	86	79	81
NDO2438-6R	226	362	474	182	370	328	205	237	298
	91	94	86	71	77	73	81	87	83
NDO2686-4R	321	389	---	132	301	---	161	204	251
	88	84	---	36	64	---	55	96	71
NDO4300-1R	292	417	---	205	373	331	308	268	313
	81	91	---	63	78	74	85	94	81
NDO4588-5R	353	413	---	213	338	400	227	301	321
	91	92	---	68	77	83	83	97	84
NDO4592-3R	214	317	---	172	312	217	288	262	255
	84	91	---	67	70	72	86	89	80
Mean	290	346	436	181	330	341	207	238	284
	83	87	83	63	72	77	79	91	79



**Table 8. Yield and Percent Marketable (<4 oz to 10 oz. \* No.1s) (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	GR	
Red LaSoda	183	143	179	160	184	266	198	232	193
	44	36	32	69	40	61	75	79	55
Dark Red Norland	329	242	313	271	216	328	186	241	266
	59	62	59	75	48	69	84	83	67
Sangre	276	204	322	136	191	266	133	109	205
	56	55	56	80	47	49	94	81	65
A79543-4R	299	384	---	223	379	---	132	223	273
	98	98	---	98	86	---	95	94	95
AO92657-3R	205	225	---	326	335	299	327	282	286
	95	74	---	98	67	82	94	96	87
CO89097-2	319	222	349	301	305	330	306	273	301
	75	56	62	79	62	70	94	92	74
COO86107-1R	237	324	271	185	239	350	118	219	243
	86	80	85	92	58	80	84	92	82
DT6063-1R	185	231	318	244	185	241	249	179	229
	60	54	59	81	41	52	93	79	65
NDO2438-6R	227	259	362	216	280	310	216	236	263
	92	67	65	84	58	69	86	87	76
NDO2686-4R	313	427	---	366	424	---	286	204	337
	86	93	---	100	90	---	97	96	94
NDO4300-1R	240	407	---	300	360	367	332	268	325
	66	88	---	93	75	82	91	94	84
NDO4588-5R	330	359	---	280	220	359	263	296	301
	85	80	---	89	50	74	97	95	81
NDO4592-3R	173	264	---	238	236	226	310	259	244
	69	75	---	93	53	75	93	88	78
Mean	255	284	302	250	273	304	235	232	267
	75	71	76	87	60	69	90	89	77

**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	GR	
Red LaSoda	11	10	25	33	34	51	29	61	32
	3	2	4	14	7	12	11	21	9
Dark Red Norland	15	11	56	82	40	44	21	86	44
	3	3	11	23	9	9	9	30	12
Sangre	9	11	57	49	27	37	25	45	33
	2	3	10	29	7	7	18	33	14
A79543-4R	35	109	---	158	114	---	73	133	104
	12	28	---	70	26	---	53	56	41
AO92657-3R	20	15	---	131	56	77	49	141	70
	9	5	---	39	11	21	14	48	21
CO89097-2	30	16	58	83	60	54	63	135	62
	7	4	10	22	12	12	19	45	16
COO86107-1R	13	17	46	89	39	60	30	98	49
	5	4	12	44	10	14	21	41	19
DT6063-1R	10	10	46	65	40	32	30	87	40
	3	2	9	22	9	7	11	38	13
NDO2438-6R	21	14	58	71	48	74	41	143	59
	8	4	10	28	10	16	16	52	18
NDO2686-4R	25	65	---	235	151	---	131	170	130
	7	14	---	64	32	---	44	80	40
NDO4300-1R	17	29	---	117	87	79	56	144	76
	5	6	---	36	18	18	15	50	21
NDO4588-5R	18	19	---	94	39	55	40	111	54
	5	4	---	30	9	11	15	36	16
NDO4592-3R	22	20	---	81	48	52	46	141	59
	9	6	---	32	11	17	14	48	20
Mean	19	27	49	99	60	56	49	115	62
	6	7	9	35	13	13	20	44	20

**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	GR	
Red LaSoda	80	54	35	61	16	76	82	58
	19	14	10	13	4	29	28	17
Dark Red Norland	109	87	70	81	18	75	81	74
	20	22	19	18	4	34	28	21
Sangre	117	77	26	69	25	56	28	57
	24	21	15	17	5	40	21	20
A79543-4R	213	240	44	147	---	39	66	125
	69	62	19	34	---	28	28	40
AO92657-3R	136	90	103	131	30	142	90	103
	63	29	31	26	8	41	30	33
CO89097-2	145	71	76	114	13	117	107	92
	34	18	20	23	3	36	36	24
COO86107-1R	159	141	45	86	17	43	83	82
	58	35	22	21	4	30	35	29
DT6063-1R	92	97	64	74	12	103	47	70
	30	23	21	17	3	38	21	22
NDO2438-6R	132	109	69	116	26	91	65	87
	53	28	27	24	6	36	24	28
NDO2686-4R	174	220	96	180	---	140	28	140
	48	48	26	38	---	47	13	37
NDO4300-1R	114	194	92	139	20	154	99	116
	31	42	28	29	4	42	35	30
NDO4588-5R	146	142	77	81	12	115	122	99
	38	32	25	18	2	42	39	28
NDO4592-3R	87	103	68	93	16	116	83	81
	35	29	27	21	5	35	28	26
Mean	131	125	67	106	18	97	75	91
	40	31	22	23	4	37	28	27

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

Clone	Yield U.S. No. 1s 6 - 10 oz (cwt/A & %)							Mean
	CA		ID	OR		TX	WA	
	KRN	TUL	KMB	KLM	COR	SPR	GR	
Red LaSoda	92	79	92	89	200	93	90	105
	22	20	39	19	46	35	30	30
Dark Red Norland	205	144	119	95	266	90	74	142
	37	37	33	21	56	40	26	36
Sangre	150	116	61	95	203	52	36	102
	30	31	36	23	38	37	27	32
A79543-4R	51	35	22	118	----	20	23	45
	17	9	10	27	----	14	10	15
AO92657-3R	49	120	92	148	193	136	51	113
	23	39	28	30	53	39	17	33
CO89097-2	144	135	142	131	263	126	31	139
	34	34	37	27	56	39	10	34
COO86107-1R	65	166	51	114	274	46	38	108
	24	41	25	28	63	32	16	33
DT6063-1R	83	124	115	71	197	116	45	107
	27	29	38	16	42	43	20	31
NDO2438-6R	74	136	76	116	210	84	29	104
	30	35	29	24	47	33	11	30
NDO2686-4R	114	142	35	93	----	16	6	68
	32	31	10	20	----	5	3	17
NDO4300-1R	109	184	91	134	268	122	25	133
	30	40	28	28	60	34	9	33
NDO4588-5R	166	198	109	100	292	108	63	148
	43	44	35	23	60	40	20	38
NDO4592-3R	64	141	89	95	159	148	35	104
	26	40	35	21	53	44	12	33
Mean	105	132	84	108	230	89	42	109
	29	33	29	24	52	33	16	30

**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	GR	
Red LaSoda	106	143	260	61	130	107	58	26	111
	25	36	46	26	28	24	22	9	27
Dark Red Norland	120	109	181	73	145	94	31	16	96
	22	28	34	20	32	20	14	6	22
Sangre	81	124	216	11	116	179	5	17	94
	16	34	38	6	28	33	6	12	22
A79543-4R	0	0	---	3	39	---	3	1	8
	0	0	---	1	9	---	2	1	2
AO92657-3R	3	68	---	8	143	47	22	6	42
	2	22	---	2	29	13	6	2	11
CO89097-2	64	150	174	72	138	101	18	5	90
	15	38	31	19	28	21	5	2	20
COO86107-1R	28	73	94	14	104	57	22	1	49
	10	18	25	7	25	13	16	1	14
DT6063-1R	75	150	190	53	159	163	10	0	100
	24	35	35	18	36	35	4	0	23
NDO2438-6R	20	118	170	37	138	92	30	1	76
	8	31	31	14	29	20	12	0	18
NDO2686-4R	32	26	---	1	28	---	5	0	15
	9	6	---	0	6	---	2	0	4
NDO4300-1R	69	40	---	22	99	43	32	0	44
	19	9	---	7	21	10	9	0	11
NDO4588-5R	42	73	---	27	157	96	5	5	58
	11	16	---	9	36	20	2	1	14
NDO4592-3R	62	73	---	15	124	43	24	4	49
	25	21	---	6	28	14	7	1	15
Mean	54	88	184	31	117	93	20	6	64
	14	23	34	10	26	20	8	3	16

**Table 13. Yield and Percent Culls**

Clone	Yield Culls (cwt/A & %)								Mean
	CA		CO SLV	ID KMB	OR		TX SPR	WA GR	
	KRN	TUL			KLM	COR			
Red LaSoda	129	109	124	12	146	65	8	37	79
	31	28	22	5	32	15	3	13	19
Dark Red Norland	106	38	36	17	88	54	6	32	47
	19	10	7	5	20	11	3	11	11
Sangre	138	40	33	24	102	93	0	8	55
	28	11	6	14	25	17	0	6	13
A79543-4R	7	5	---	1	21	---	3	12	8
	2	1	---	0	5	---	2	5	3
AO92657-3R	8	13	---	1	20	18	0	8	10
	4	4	---	0	4	5	0	3	3
CO89097-2	44	25	37	8	48	41	2	20	28
	10	6	7	2	10	9	1	7	7
COO86107-1R	10	7	7	2	68	29	2	18	18
	4	2	2	1	17	7	1	8	5
DT6063-1R	47	43	30	4	102	63	8	47	43
	15	10	6	1	23	13	3	21	12
NDO2438-6R	1	7	21	6	61	49	6	35	23
	0	2	4	2	13	11	2	13	6
NDO2686-4R	16	6	---	0	18	---	3	9	9
	5	1	---	0	4	---	4	4	3
NDO4300-1R	54	15	---	1	21	36	0	17	21
	15	3	---	0	4	8	0	6	5
NDO4588-5R	18	16	---	5	63	28	5	11	21
	5	4	---	2	14	6	2	3	5
NDO4592-3R	17	13	---	3	85	32	1	34	26
	7	4	---	1	19	11	0	11	8
Mean	46	26	41	6	65	46	3	22	30
	11	7	8	3	15	10	2	9	8

**Table 14. Specific Gravity**

Clone	Specific Gravity								Mean
	CA		CO	ID	OR		TX	WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	
Red LaSoda	1.080	1.078	1.069	1.063	1.070	1.076	1.053	1.068	1.070
Dk. Red Norland	1.077	1.070	1.066	1.061	1.068	1.072	1.059	1.068	1.068
Sangre	1.074	1.073	1.073	1.055	1.078	1.079	1.048	1.068	1.069
A79543-4R	1.090	1.074	---	1.073	1.073	----	1.049	1.072	1.072
AO92657-3R	1.083	1.080	---	1.069	1.065	1.076	1.057	1.072	1.072
CO89097-2	1.078	1.081	1.076	1.067	1.076	1.090	1.057	1.073	1.075
COO86107-1R	1.088	1.069	1.076	1.074	1.077	1.083	1.065	1.082	1.077
DT6063-1R	1.088	1.082	1.078	1.074	1.080	1.102	1.070	1.077	1.081
NDO2438-6R	1.071	1.084	1.066	1.064	1.062	1.068	1.053	1.066	1.067
NDO2686-4R	1.080	1.076	---	1.066	1.070	----	1.065	1.078	1.073
NDO4300-1R	1.081	1.075	---	1.069	1.063	1.072	1.057	1.069	1.069
NDO4588-5R	1.073	1.072	---	1.062	1.060	1.073	1.056	1.064	1.066
NDO4592-3R	1.080	1.086	---	1.073	1.068	1.078	1.058	1.075	1.074
Mean	1.080	1.077	1.072	1.067	1.070	1.079	1.057	1.072	1.072

**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	GR		KRN	TUL	SLV	KMB	KLM	SPR	GR	
Red LaSoda	5.8	5.4	5.5	5.0	5.4	3.0	2.0	2.0	2.5	2.5	2.0	1.3	2.2
Dk. Red Norland	4.7	5.8	5.8	4.3	5.2	2.0	3.0	2.0	3.0	3.0	3.0	3.0	2.7
Sangre	4.4	7.1	4.3	4.0	5.0	2.0	1.0	2.0	3.0	2.0	1.0	1.0	1.7
A79543-4R	2.4	---	2.4	3.1	2.6	1.0	1.0	---	1.0	1.0	1.0	1.0	1.0
AO92657-3R	3.5	4.0	4.7	3.6	4.0	1.0	1.7	---	1.5	1.8	3.0	1.1	1.7
CO89097-2	4.6	5.6	4.2	3.6	4.5	2.0	1.8	2.0	2.8	2.0	1.0	2.8	2.1
COO86107-1R	3.3	5.0	4.6	3.6	4.1	3.0	2.3	2.0	2.5	2.0	2.0	2.3	2.3
DT6063-1R	5.5	7.1	5.2	3.7	5.4	3.0	2.8	3.0	2.3	3.0	3.0	2.8	2.8
NDO2438-6R	4.5	4.7	5.2	3.2	4.4	2.0	1.0	1.0	1.5	1.5	2.0	1.5	1.5
NDO2686-4R	2.6	---	2.7	2.5	2.6	3.0	2.0	---	2.0	1.0	1.0	2.1	1.9
NDO4300-1R	3.8	4.3	4.8	3.4	4.1	3.0	1.0	---	1.0	1.0	2.0	1.9	1.7
NDO4588-5R	4.0	5.5	4.6	4.0	4.5	2.0	2.0	---	2.0	1.8	1.0	2.8	1.9
NDO4592-3R	4.0	4.1	4.5	3.3	4.0	3.0	1.7	---	2.3	1.8	3.0	2.5	2.4
Mean	4.1	5.3	4.5	3.6	4.3	2.3	1.8	2.0	2.1	1.9	1.9	2.0	2.0



**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	OR	TX	WA	Mean
	KMB	KLM	KRN	TUL	SPR	GR		KRN	TUL	SLV	KLM	SPR	GR	
Red LaSoda	1.3	2.5	5.0	1.5	2.0	1.0	2.2	2.0	2.0	2.0	3.5	2.0	2.0	2.3
Dk. Red Norland	2.8	4.0	4.0	3.5	3.0	3.5	3.5	4.0	3.7	3.0	4.0	2.0	2.0	3.1
Sangre	2.8	3.0	4.0	3.8	3.0	3.3	3.3	2.0	2.0	3.0	4.0	3.0	3.3	2.9
A79543-4R	3.0	3.8	4.0	4.3	3.0	3.0	3.5	3.0	3.5	---	5.0	3.0	4.3	3.8
AO92657-3R	3.5	4.5	4.0	3.7	2.0	3.0	3.4	3.0	3.0	---	4.5	2.0	3.1	3.1
CO89097-2	3.3	5.0	4.0	4.7	4.0	3.3	4.1	3.0	3.6	4.0	4.5	3.0	4.3	3.7
COO86107-1R	3.5	4.5	4.0	4.3	3.0	3.5	3.8	3.0	3.3	4.0	4.8	3.0	3.0	3.5
DT6063-1R	3.0	5.0	4.0	4.7	3.0	2.8	3.8	3.0	3.0	3.0	4.3	2.0	3.3	3.1
NDO2438-6R	3.0	4.0	4.0	4.0	3.0	2.3	3.4	3.0	3.0	3.0	4.5	3.0	3.5	3.3
NDO2686-4R	3.5	4.3	5.0	5.0	3.0	4.0	4.1	3.0	3.0	---	4.8	3.0	4.8	3.7
NDO4300-1R	4.0	3.8	4.0	4.7	3.0	3.8	3.9	3.0	3.8	---	4.3	2.0	3.8	3.4
NDO4588-5R	3.3	3.0	3.0	4.7	3.0	2.3	3.2	3.0	2.7	---	4.8	3.0	5.0	3.7
NDO4592-3R	3.5	4.0	4.0	4.1	3.0	2.8	3.6	3.0	2.7	---	4.8	3.0	2.5	3.2
Mean	3.1	4.0	4.1	4.1	2.9	3.0	3.5	2.9	3.0	3.1	4.4	2.6	3.5	3.3

**Table 17. Growth Cracks and Skinning**

Clone	Growth Cracks (5 - none)						Skinning (5 - none)			
	CO	ID	OR	TX	WA	Mean	OR	WA	ID	Mean
	SLV	KMB	KLM	SPR	GR		KLM	GR	KMB	
Red LaSoda	1.0	4.0	2.5	5.0	4.1	3.3	4.0	3.8	3.0	3.6
Dk. Red Norland	3.0	4.0	3.0	5.0	3.8	3.8	3.3	4.0	3.0	3.4
Sangre	4.0	4.5	3.0	5.0	4.8	4.3	2.0	3.0	2.5	2.5
A79543-4R	---	5.0	4.8	5.0	4.5	4.8	4.8	4.6	3.8	4.4
AO92657-3R	---	5.0	5.0	5.0	5.0	5.0	4.3	4.3	4.0	4.2
CO89097-2	4.0	4.5	4.5	5.0	5.0	4.6	4.5	3.5	2.5	3.5
COO86107-1R	4.0	5.0	3.3	5.0	4.0	4.3	4.0	3.8	3.0	3.6
DT6063-1R	3.0	5.0	3.0	5.0	3.1	3.8	4.0	4.8	3.5	4.1
NDO2438-6R	5.0	5.0	4.5	5.0	5.0	4.9	4.3	5.0	3.0	4.1
NDO2686-4R	---	5.0	5.0	5.0	5.0	5.0	4.3	5.0	3.8	4.4
NDO4300-1R	---	5.0	4.8	5.0	5.0	5.0	4.3	3.3	3.3	3.6
NDO4588-5R	---	5.0	4.0	5.0	4.8	4.7	4.3	4.3	3.8	4.1
NDO4592-3R	---	5.0	3.8	5.0	5.0	4.7	4.3	4.0	3.0	3.8
Mean	3.4	4.8	3.9	5.0	4.5	4.5	4.0	4.1	3.2	3.8

**Table 18. % HH and BC**

Clone	% Hollow Heart & Brown Center								Mean
	CA		CO	ID	OR		TX	WA	
	KRN	TUL	SLV	KMB	KLM	COR	SPR	GR	
Red LaSoda	8	0	24	5	3	3	0	27	9
Dk. Red Norland	0	8	1	0	5	0	0	3	2
Sangre	17	0	3	0	15	8	0	0	5
A79543-4R	0	0	---	0	25	0	0	0	4
AO92657-3R	0	0	---	0	3	0	0	0	0
CO89097-2	0	8	0	0	5	3	0	0	2
COO86107-1R	0	8	1	0	8	10	0	0	3
DT6063-1R	0	42	0	13	25	2	0	3	11
NDO2438-6R	0	0	0	0	8	0	0	0	1
NDO2686-4R	0	0	---	0	5	---	0	0	1
NDO4300-1R	0	8	---	0	3	2	0	0	2
NDO4588-5R	0	0	---	0	8	5	0	0	2
NDO4592-3R	8	0	---	0	3	0	0	9	3
Mean	3	6	4	1	9	3	0	3	3

**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	
Red LaSoda	2.0	1.5	1.0	1.5	3.6	1.9
Dk. Red Norland	3.0	2.5	4.0	2.0	3.4	3.0
Sangre	2.0	2.5	5.0	2.0	2.9	2.9
A79543-4R	4.0	3.8	--	4.8	3.0	3.9
AO92657-3R	3.0	2.3	--	3.8	3.6	3.2
CO89097-2	4.0	3.5	5.0	2.8	3.4	3.7
COO86107-1R	3.0	3.5	3.0	3.0	3.0	3.1
DT6063-1R	3.0	2.3	5.0	2.8	3.5	3.3
NDO2438-6R	5.0	3.0	5.0	3.5	3.4	4.0
NDO2686-4R	3.0	3.8	--	4.3	3.7	3.7
NDO4300-1R	4.0	3.8	--	3.5	3.9	3.8
NDO4588-5R	3.0	3.7	--	3.8	3.7	3.6
NDO4592-3R	4.0	2.8	--	3.3	3.7	3.5
Mean	3.3	3.0	4.0	3.2	3.4	3.3

**Table 20. Miscellaneous Data on Tuber Quality.**

Clone	Tuber blight <sup>1</sup>	Washington				Kimberly, Idaho					
		Culinary Quality <sup>2</sup>				Mean					
		Boiling	Baking	Microwave	Total	Solids	Protien	Dextrose	Sucrose	Vitamin C	TGA
Red LaSoda	12.5	18.5	19.5	18.0	56.0	16.7	7.1	0.095	0.195	30.2	3.0
Dk. Red Norland	12.5	20.0	19.0	20.0	59.0	17.6	6.2	0.060	0.213	33.6	3.6
Sangre	15.0	19.5	19.5	20.0	59.0	16.5	6.3	0.123	0.310	24.8	2.4
A79543-4R	---	20.0	19.0	17.0	56.0	18.3	5.7	0.088	0.338	31.2	6.6
AO92657-3R	17.5	21.0	19.0	19.0	59.0	18.0	6.3	0.005	0.175	30.6	2.4
CO89097-2	25.0	18.5	17.5	21.5	57.5	18.6	6.8	0.020	0.203	25.4	1.5
COO86107-1R	5.0	20.0	15.5	14.5	50.0	18.8	7.0	0.018	0.200	28.6	5.1
DT6063-1R	10.0	16.5	15.0	19.0	50.5	19.7	5.9	0.035	0.203	27.2	3.5
NDO2438-6R	5.0	14.0	16.5	20.0	50.5	16.5	6.8	0.018	0.213	26.0	2.6
NDO2686-4R	---	17.5	14.5	16.0	48.0	18.9	5.9	0.028	0.125	31.0	3.7
NDO4300-1R	10.0	17.5	14.5	17.0	49.0	17.8	6.1	0.015	0.145	32.5	4.2
NDO4588-5R	5.0	18.5	13.0	15.5	47.0	17.3	6.0	0.035	0.333	33.9	1.7
NDO4592-3R	12.5	20.0	14.0	21.0	55.0	18.4	6.5	0.025	0.163	29.0	5.5
Mean	11.8	18.6	16.7	18.3	53.6	17.9	6.3	0.043	0.216	29.5	3.5

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

<sup>2/</sup> 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	% #1s	% >10	% <4	Yield Mark <sup>1</sup>	% Mark <sup>1</sup>	Specific gravity	Fresh Merit
1	Red LaSoda	94	3.3	3.3	3.1	383	75	26	9	218	59	1.070	1.9
2	Dk. Red Norland	90	2.9	3.2	3.2	408	81	22	12	277	70	1.068	3.0
3	Sangre	92	1.8	3.4	4.1	354	77	22	14	216	67	1.069	2.9
4	A79543-4R	96	2.5	3.2	3.0	290	66	2	41	273	95	1.072	3.9
5	AO92657-3R	84	2.9	2.8	2.4	338	83	11	21	286	87	1.072	3.5
6	CO89097-2	94	3.0	3.9	3.7	419	83	20	16	312	76	1.075	3.3
7	COO86107-1R	94	2.5	3.0	2.6	310	81	14	19	250	82	1.077	3.1
8	DT6063-1R	95	2.6	3.6	3.6	372	81	23	13	239	67	1.081	3.3
9	NDO2438-6R	93	2.7	3.2	2.8	362	83	18	18	273	78	1.067	4.0
10	NDO2686-4R	96	4.6	3.3	2.7	361	71	4	40	337	94	1.073	3.7
11	NDO4300-1R	91	2.4	2.8	2.9	389	81	11	21	325	84	1.069	3.8
12	NDO4588-5R	85	2.0	3.4	2.9	379	84	14	16	301	81	1.066	3.6
13	NDO4592-3R	92	2.0	3.2	2.9	320	80	15	20	244	78	1.074	3.5
Mean		92	2.7	3.3	3.1	360	79	17	21	273	78	1.072	3.3

<sup>1</sup> Marketable includes U.S. No. 1's <4 oz. - ≤ 10 oz.