

2002 Western Regional Red/Specialty Potato Trial Table of Contents

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Description of Clones - 2002 Western Regional Red/Specialty 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	2
AO93487-2R	NDO3503-5	Mazama	Red-purple	Med	Med/Early	Round	Lt. Red	OR	Fresh	OR	1
AO96747-1R	A90601-2RD	A83350-9R	Red-purple	Med/Lg	Med/Late	Round	Dk. Red	OR	Fresh	OR	1
AO96747-2R/Y	A90601-2RD	A83350-9R	Red-purple	Med	Med/Late	Round	Red/Purple	OR	Fresh	OR	1
BTX1544-2W/Y	BO811-13	Yukon Gold	White	Med	Med	Oval	White	TX	Fresh	CO	1
CO93037-6R	CO82177-9	NDO4030-12	Red-purple	Large	Med	Round	Red	CO	Fresh	CO	1
NDA5507-3YF	Brodict	Yukon Gold	Red-purple	Med	Med/Early	Round	White	ID	Fr./Chip	ID	1
NDC5281-2	ND3196-1R	ND2224-5R	Dk Red-purple	Large	Med/Early	Oval	Dk. Red	CO	Fresh	OR	2
NDO4323-2R	1871-3	LA 12-59	Red-purple	Med	Med	Oval	Dk. Red	OR	Fresh	OR	3
NDTX4271-5R	NDTX1068-11R	ND2050-1R	Red-purple	Med	Med	Oval	Dk. Red	TX	Fresh	OR	2
NDTX4304-1R	ND1562-4R	NDTX1068-11R	Red-purple	Sm/Med	Early/Late	Round	Red	TX	Fresh	CO	1
TX1523-1Ru/Y	Krantz	Delta Gold	White	Med	Early	Oblong	Russet	TX	Fresh	OR	3
TX1674-1W/Y	Russet Nugget	Delta Gold	Lavender	Med	Med/Early	Oblong	White	TX	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	280-0-0	Machine	20-Feb	8-Jun	26-Jun	126
2. Tulelake California (TUL)	R. Voss, H. Phillips D. Kirby	Sprinkler	160-200-0	Machine	5-May	12-Sep	23-Sep	130
3. San Luis Valley Colorado (SLV)	D. Holm, P. Naranjo	Pivot	140-70-40-18	Machine	16-May	3-Sep	30-Sep	108
4. Aberdeen Idaho (AB)	S. Love T. Salaiz, M. Bain	Sprinkler	250-120-40	Machine	29-Apr	19-Aug	19-Aug	112
5. Klamath Falls Oregon (KLM)	K. Rykbost B. Charlton	Sprinkler	160-80-80-140	Machine	24-May	5-Sep	23-Sep	104
6. Corvallis Oregon (COR)	A. Mosley S. Yilma	Sprinkler	150-150-150-90	Hand	23-May	10-Sep	24-Sep	110
7. Springlake Texas (S E)	C. Miller, J. Koym D. Scheuring	Pivot	133-28-28	Hand	18-Mar	8-Jul	16-Jul	112
8. Springlake Texas (S L)	C. Miller, J. Koym D. Scheuring	Pivot	133-28-28	Hand	20-Mar	19-Jul	29-Jul	121
9. Mt. Vernon Washington (MV)	R. Thornton, R. Knowles G. Newberry, E. Driskill, N. Fuller	Dry/Irrig.		Machine	15-May	18-Aug	27-Aug	95

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

Item	CA		CO	ID	OR		TX		WA
	KRN	TUL	SLV	AB	KLM	COR	S E	S L	MV
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			
Silt loam				x					
Organic - 8%		x							
Fungicides:									
Bravo 720				x	x	x			
Bravo Wthr. Stk.	x	x	x				x	x	
Agri Tin									
Curzate	x	x			x	x			
Ridomil Gold Bravo					x				
Mancozeb									
Tops MZ					x		x	x	
Quadris	x		x			x	x	x	
Nu-Film P									
Dithane		x			x				
Manex II			x						
Bravo Ultrex					x				
SuperTin			x						
Rovral									
Insecticides:									
Admire/Provado				x		x			
Asana									
Actara			x						
Endosulfan 3 EC			x						
DiSyston					x				
Gaicho							x	x	
Monitor					x				
Leverage 2.7			x				x	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	SE	SL	MV
Herbicides:									
Dual			X		X		X	X	
Eptam	X			X					
Lexone		X		X			X	X	
Matrix		X				X			
Roundup							X	X	
Poast									
Prowl	X		X		X	X			
Select 2 EC			X						
Treflan							X	X	
Fumigant:									
Telone II									
Methyl Bromide/Chloropicrin									
Vapam					X				
Vine Killing:									
Diquat		X			X	X			
Sulfuric Acid			X						
Mechanical	X			X					
Environmental Factors:									
Cool/Dry Summer									
Frost									
Favorable									
Hot Summer									
Below Avg. Precip.									
Comments:									
Poor Vine Kill									
Virus									
Rhizoctonia									
Pink Rot									
Heat Stress									

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	SE	SL	MV		SLV	AB	MV	SE	SL	
Dk. Red Norland	91	95	100	95	98	86	96	94	94	---	---	---	---	---	---
Red LaSoda	68	93	100	91	97	86	94	95	91	---	---	---	---	---	---
Yukon Gold	88	94	99	84	90	92	90	87	91	---	---	---	---	---	---
A92584-3BB	95	95	98	89	98	94	94	91	94	---	---	---	---	---	---
AO93487-2R	93	95	---	95	98	93	94	95	95	---	---	---	---	---	---
AO96747-1R	93	90	---	95	97	88	93	91	92	---	---	---	---	---	---
AO96747-2R/Y	88	94	---	91	100	93	95	90	93	---	---	---	---	---	---
BTX1544-2W/Y	87	83	95	91	100	90	90	91	91	---	---	---	---	---	---
CO93037-6R	83	93	94	90	98	88	94	99	92	---	---	---	---	---	---
NDA5507-3YF	59	70	---	93	97	88	93	94	85	---	---	---	---	---	---
NDC5281-2	81	88	97	79	95	81	94	97	89	---	---	---	---	---	---
NDO4323-2R	84	89	100	93	98	90	96	92	93	---	---	---	---	---	---
NDTX4271-5R	59	91	94	81	94	86	91	93	86	---	---	---	---	---	---
NDTX4304-1R	69	98	98	90	96	85	90	94	90	---	---	---	---	---	---
TX1523-1Ru/Y	77	88	92	92	100	93	92	90	91	---	---	---	---	---	---
TX1674-1W/Y	86	90	97	95	97	86	93	91	92	---	---	---	---	---	---
Mean	81	90	97	90	97	89	93	93	91	---	---	---	---	---	---

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	S E	S L	MV		KRN	TUL	SLV	AB	KLM	S E	S L	MV	
Dk. Red Norland	3.5	2.7	2.0	2.8	3.5	2.5	2.5	---	2.8	2.0	2.3	1.0	1.5	2.3	1.8	1.8	---	1.8
Red LaSoda	3.8	3.3	3.2	4.0	3.8	3.0	3.0	---	3.4	3.0	2.5	2.5	3.0	3.0	2.9	2.9	---	2.8
Yukon Gold	3.3	3.0	2.2	3.0	4.0	3.3	3.3	---	3.2	2.3	2.5	1.8	2.3	2.3	2.5	2.5	---	2.3
A92584-3BB	4.3	2.5	2.8	3.3	4.0	3.8	3.8	---	3.5	3.3	3.3	2.8	2.8	2.8	4.3	4.3	---	3.4
AO93487-2R	3.0	3.0	---	2.0	4.0	2.0	2.0	---	2.7	1.5	1.5	---	1.3	2.8	1.9	1.9	---	1.8
AO96747-1R	3.0	2.8	---	2.8	3.8	3.5	3.5	---	3.2	2.3	3.3	---	3.0	3.5	3.6	3.6	---	3.2
AO96747-2R/Y	4.0	3.5	---	3.5	4.0	3.6	3.6	---	3.7	2.8	2.0	---	3.3	3.3	2.8	2.8	---	2.8
BTX1544-2W/Y	3.8	3.0	3.2	2.3	4.8	2.8	2.8	---	3.2	2.5	2.0	2.2	1.5	3.0	2.1	2.1	---	2.2
CO93037-6R	4.5	4.0	4.5	4.0	4.5	3.9	3.9	---	4.2	3.0	4.3	3.0	4.0	4.0	3.8	3.8	---	3.7
NDA5507-3YF	3.8	2.8	---	3.8	4.0	3.8	3.8	---	3.7	2.3	3.0	---	2.8	3.5	3.1	3.1	---	3.0
NDC5281-2	3.5	4.0	3.0	2.5	3.5	3.8	3.8	---	3.4	2.8	2.3	1.0	2.3	1.5	3.1	3.1	---	2.3
NDO4323-2R	3.5	4.0	3.0	3.0	4.0	2.6	2.6	---	3.2	3.0	2.3	2.2	2.3	2.8	2.3	2.3	---	2.5
NDTX4271-5R	3.5	3.5	3.2	2.0	3.0	3.5	3.5	---	3.2	4.0	2.5	1.8	1.8	2.8	2.9	2.9	---	2.7
NDTX4304-1R	3.5	3.3	2.5	3.0	4.3	2.3	2.3	---	3.0	2.5	2.3	2.5	2.8	2.3	2.1	2.1	---	2.4
TX1523-1Ru/Y	3.8	3.3	3.0	2.5	4.3	2.6	2.6	---	3.2	3.0	1.3	2.2	1.8	2.3	2.1	2.1	---	2.1
TX1674-1W/Y	4.0	3.0	2.8	3.5	3.8	3.4	3.4	---	3.4	3.3	3.0	2.5	3.0	2.8	3.8	3.8	---	3.2
Mean	3.7	3.2	3.0	3.0	4.0	3.2	3.2	---	3.3	2.7	2.5	2.1	2.5	2.8	2.8	2.8	---	2.6

Table 6. Total Yield

Clone	Total Yield (cwt/A)									Mean
	CA		CO	ID	OR		TX		WA	
	KRN	TUL	SLV	AB	KLM	COR	SE	SL	MV	
Dk. Red Norland	343	560	509	468	420	605	198	278	537	435
Red LaSoda	455	490	625	468	505	588	148	325	547	461
Yukon Gold	362	447	490	399	424	599	220	288	407	404
A92584-3BB	383	486	458	431	427	731	243	363	369	432
AO93487-2R	324	452	---	421	541	549	178	298	444	401
AO96747-1R	499	498	---	458	433	700	237	346	388	445
AO96747-2R/Y	400	497	---	340	466	738	191	266	469	421
BTX1544-2W/Y	346	499	537	441	523	682	200	250	484	440
CO93037-6R	424	494	728	380	523	834	156	257	458	473
NDA5507-3YF	439	435	---	403	530	917	107	166	526	440
NDC5281-2	377	405	474	441	479	722	169	382	317	418
NDO4323-2R	336	502	564	408	502	675	157	263	429	426
NDTX4271-5R	416	560	539	434	448	688	269	370	339	451
NDTX4304-1R	380	547	605	491	497	792	251	334	497	488
TX1523-1Ru/Y	326	368	473	377	404	700	225	313	484	408
TX1674-1W/Y	355	440	519	319	375	587	199	273	434	389
Mean	385	480	543	417	469	694	197	298	446	433

Table 7. Yield and Percent U.S. No. 1s (4-10 oz + > 10oz)

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	325	449	363	398	333	389	134	223	463	342
	95	80	71	85	79	64	68	80	86	79
Red LaSoda	412	422	487	413	396	417	110	257	491	378
	91	86	78	88	78	71	75	79	90	82
Yukon Gold	353	379	421	374	389	392	139	228	306	331
	98	85	86	94	92	65	63	79	75	82
A92584-3BB	343	268	218	312	319	441	63	240	169	264
	90	55	48	72	75	60	26	66	46	60
AO93487-2R	301	348	---	355	439	381	90	233	345	312
	93	77	---	84	81	69	50	78	78	76
AO96747-1R	460	372	---	382	358	486	89	218	232	325
	92	75	---	83	83	69	37	63	60	70
AO96747-2R/Y	365	355	---	243	350	499	54	89	359	289
	91	71	---	71	75	68	28	33	76	64
BTX1544-2W/Y	321	391	436	380	455	511	128	207	377	356
	93	78	81	86	87	75	64	83	78	81
CO93037-6R	379	339	497	295	409	618	99	188	321	349
	90	69	68	78	78	74	64	73	70	74
NDA5507-3YF	400	297	---	347	460	730	31	75	449	349
	91	68	---	86	87	80	29	45	85	71
NDC5281-2	320	229	211	359	341	482	44	300	175	273
	85	57	45	81	71	67	26	78	55	63
NDO4323-2R	266	356	340	300	258	463	69	198	322	286
	79	71	60	74	51	69	44	75	75	66
NDTX4271-5R	372	470	417	361	374	523	171	295	249	359
	89	84	77	83	83	76	63	80	74	79
NDTX4304-1R	352	447	482	423	365	584	208	279	372	390
	93	82	80	86	73	74	83	83	75	81
TX1523-1Ru/Y	301	338	406	354	371	568	153	273	397	351
	92	92	86	94	92	81	68	87	82	86
TX1674-1W/Y	343	356	386	286	322	383	119	230	351	308
	97	81	74	90	86	65	60	84	81	80
Mean	351	364	389	349	371	492	106	221	336	329
	91	76	71	83	79	70	53	73	74	75

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

Clone	Total Yield U.S. NO. 1s (<4 oz - 10 oz)									
	CA		CO	ID	OR		TX		WA	Mean
	KRN	TUL	SLV	AB	KLM	COR	S E	S L	MV	
Dark Red Norland	315	410	408	227	225	353	195	208	288	292
	92	73	80	49	54	58	98	75	54	70
Red LaSoda	284	215	340	165	192	270	133	217	233	228
	62	44	54	35	38	46	90	67	43	53
Yukon Gold	252	260	264	223	188	265	211	244	197	234
	70	58	54	56	44	44	96	85	49	62
A92584-3BB	353	447	419	383	376	554	240	356	346	386
	92	92	92	89	88	76	99	98	94	91
AO93487-2R	295	422	---	320	360	408	178	283	338	326
	91	93	---	76	67	74	100	95	76	84
AO96747-1R	451	394	---	312	331	498	230	301	345	358
	90	79	---	68	76	71	97	87	89	82
AO96747-2R/Y	368	451	---	302	419	535	184	262	382	363
	92	91	---	89	90	72	97	98	82	89
BTX1544-2W/Y	265	410	388	241	308	326	191	219	367	302
	77	82	72	55	59	48	95	88	76	72
CO93037-6R	333	369	534	240	357	529	152	227	361	345
	79	75	73	63	68	63	97	89	79	76
NDA5507-3YF	303	361	---	304	326	562	106	165	329	307
	69	83	---	75	62	61	99	99	63	76
NDC5281-2	322	388	455	352	351	569	168	364	281	361
	86	96	96	80	73	79	99	95	89	88
NDO4323-2R	215	347	462	267	248	404	157	250	325	297
	64	69	82	65	49	60	100	95	76	73
NDTX4271-5R	296	417	402	237	288	405	269	301	176	310
	71	74	75	55	64	59	100	82	52	70
NDTX4304-1R	221	353	328	232	268	400	241	224	243	279
	58	64	54	47	54	51	96	67	49	60
TX1523-1Ru/Y	242	215	298	177	220	252	222	218	265	234
	74	58	63	47	54	36	99	70	55	62
TX1674-1W/Y	231	298	424	238	273	326	188	232	281	277
	65	68	82	75	73	56	95	85	65	74
Mean	297	360	394	264	296	416	192	254	297	306
	77	75	73	64	63	60	97	86	68	74

Table 9. Yield and Percent Bs

Clone	Yield Bs (cwt/A & %)									
	CA		CO	ID	OR		TX		WA	Mean
	KRN	TUL	SLV	AB	KLM	COR	SE	SL	MV	
Dark Red Norland	14	82	123	29	29	73	60	46	39	55
	4	15	24	6	7	12	30	16	7	13
Red LaSoda	11	19	65	19	21	49	34	49	37	34
	2	4	10	4	4	8	23	15	7	9
Yukon Gold	9	44	48	22	21	57	78	59	34	41
	2	10	10	6	5	10	36	20	8	12
A92584-3BB	29	201	232	107	98	170	178	123	182	147
	8	41	51	25	23	23	73	34	49	36
AO93487-2R	18	101	---	60	56	101	88	66	85	72
	5	22	---	14	10	18	50	22	19	20
AO96747-1R	26	116	---	67	68	119	142	96	141	97
	5	23	---	15	16	17	60	28	36	25
AO96747-2R/Y	28	135	---	94	108	141	130	173	103	114
	7	27	---	28	23	19	68	65	22	32
BTX1544-2W/Y	15	94	73	34	35	63	67	43	69	55
	4	19	14	8	7	9	33	17	14	14
CO93037-6R	14	119	183	51	77	107	56	69	110	87
	3	24	25	13	15	13	36	27	24	20
NDA5507-3YF	12	130	---	53	35	93	75	91	45	67
	3	30	---	13	7	10	70	54	9	25
NDC5281-2	25	163	258	71	71	149	124	82	126	119
	7	40	54	16	15	21	74	22	40	32
NDO4323-2R	11	72	165	44	36	80	87	65	61	69
	3	14	29	11	7	12	55	25	14	19
NDTX4271-5R	9	78	96	35	43	66	98	75	34	59
	2	14	18	8	10	10	37	20	10	14
NDTX4304-1R	8	69	76	33	44	75	43	55	62	52
	2	13	13	7	9	9	17	17	13	11
TX1523-1Ru/Y	5	28	56	18	25	34	70	39	40	35
	2	8	12	5	6	5	31	13	8	10
TX1674-1W/Y	9	61	115	30	41	92	70	43	41	56
	3	14	22	9	11	16	35	16	9	15
Mean	15	95	124	48	51	92	88	73	76	72
	4	20	24	12	11	13	46	26	18	19

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	127	125	61	71	42	72	57	67	78
	37	22	13	17	7	37	20	12	21
Red LaSoda	93	37	29	41	28	48	75	57	51
	20	8	6	8	5	33	23	10	14
Yukon Gold	92	66	55	63	40	89	97	42	68
	25	15	14	15	7	40	34	10	20
A92584-3BB	176	147	162	153	94	51	148	107	130
	46	30	38	36	13	21	41	29	32
AO93487-2R	115	138	102	118	70	69	107	88	101
	36	30	24	22	13	38	36	20	27
AO96747-1R	184	109	82	125	79	73	116	107	109
	37	22	18	29	11	31	34	28	26
AO96747-2R/Y	163	157	108	171	106	28	44	108	111
	41	32	32	37	14	15	16	23	26
BTX1544-2W/Y	97	118	68	139	38	77	70	108	89
	28	24	15	27	6	38	28	22	24
CO93037-6R	145	97	66	115	90	59	64	116	94
	34	20	17	22	11	38	25	25	24
NDA5507-3YF	90	115	81	116	58	25	70	88	80
	20	26	20	22	6	23	42	17	22
NDC5281-2	95	139	107	137	66	38	152	86	103
	25	34	24	29	9	23	40	27	26
NDO4323-2R	83	99	80	87	55	54	121	91	84
	25	20	20	17	8	34	46	21	24
NDTX4271-5R	91	101	58	98	57	84	93	45	78
	22	18	13	22	8	31	25	13	19
NDTX4304-1R	48	100	59	91	56	111	43	64	72
	13	18	12	18	7	44	13	13	17
TX1523-1Ru/Y	86	46	33	75	18	110	66	62	62
	26	13	9	19	3	49	21	13	19
TX1674-1W/Y	87	87	72	94	38	65	51	79	72
	25	20	23	25	6	32	19	18	21
Mean	111	105	76	106	58	66	86	82	86
	29	22	19	23	8	33	29	19	23

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	MV	
Dark Red Norland	174	203	285	137	125	238	62	106	182	168
	51	36	56	29	30	39	31	38	34	38
Red LaSoda	180	159	274	117	130	193	51	93	139	148
	40	32	44	25	26	33	34	29	25	32
Yukon Gold	152	149	216	146	104	168	44	88	122	132
	42	33	44	37	25	28	20	31	30	32
A92584-3BB	148	99	187	114	125	290	12	85	57	124
	39	20	41	26	29	40	5	23	16	27
AO93487-2R	162	184	---	158	186	237	21	111	165	153
	50	41	---	38	34	43	12	37	37	37
AO96747-1R	241	169	---	163	138	300	16	88	98	152
	48	34	---	36	32	43	7	25	25	31
AO96747-2R/Y	176	158	---	100	140	288	26	45	171	138
	44	32	---	29	30	39	13	17	36	30
BTX1544-2W/Y	153	199	315	139	134	225	47	107	190	168
	44	40	59	32	26	33	24	43	39	38
CO93037-6R	174	153	351	123	165	332	37	94	135	174
	41	31	48	32	32	40	23	37	30	35
NDA5507-3YF	201	116	---	170	175	411	6	5	196	160
	46	27	---	42	33	45	6	3	37	30
NDC5281-2	202	86	197	174	143	354	5	129	69	151
	54	21	42	39	30	49	3	34	22	33
NDO4323-2R	121	176	296	143	125	269	15	64	172	153
	36	35	53	35	25	40	10	24	40	33
NDTX4271-5R	196	237	305	144	147	282	86	133	97	181
	47	42	57	33	33	41	32	36	29	39
NDTX4304-1R	165	184	252	140	133	269	88	125	117	164
	43	34	42	29	27	34	35	37	24	34
TX1523-1Ru/Y	151	141	242	126	120	200	43	112	163	144
	46	38	51	33	30	29	19	36	34	35
TX1674-1W/Y	134	149	309	136	138	196	54	138	162	157
	38	34	60	43	37	33	27	50	37	40
Mean	171	160	269	139	139	266	38	95	140	154
	44	33	50	34	30	38	19	31	31	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	AB	KLM	COR	S E	S L	MV	
Dark Red Norland	24	121	78	200	137	109	0	60	214	105
	7	22	15	43	33	18	0	22	40	22
Red LaSoda	139	225	213	267	225	196	11	90	295	185
	31	46	34	57	45	33	8	28	54	37
Yukon Gold	110	163	205	173	222	184	6	43	142	139
	30	37	42	43	52	31	3	15	35	32
A92584-3BB	19	22	31	36	41	57	0	7	5	24
	5	4	7	8	10	8	0	2	1	5
AO93487-2R	24	27	---	95	135	74	0	15	92	58
	8	6	---	23	25	13	0	5	21	13
AO96747-1R	35	94	---	137	95	107	0	14	28	64
	7	19	---	30	22	15	0	4	7	13
AO96747-2R/Y	26	40	---	35	39	105	0	0	80	41
	7	8	---	10	8	14	0	0	17	8
BTX1544-2W/Y	71	75	121	173	182	248	4	30	80	109
	20	15	23	39	35	36	2	12	16	22
CO93037-6R	60	89	146	106	129	196	4	29	70	92
	14	18	20	28	25	24	2	11	15	17
NDA5507-3YF	109	66	---	96	169	261	0	0	165	108
	25	15	---	24	32	28	0	0	31	19
NDC5281-2	23	5	14	78	61	62	0	18	20	31
	6	1	3	18	13	9	0	5	6	7
NDO4323-2R	61	81	44	77	46	139	0	13	58	58
	18	16	8	19	9	21	0	5	14	12
NDTX4271-5R	84	131	112	159	129	184	0	68	107	108
	20	23	21	37	29	27	0	18	32	23
NDTX4304-1R	139	163	230	224	141	259	9	111	192	163
	37	30	38	46	28	33	4	33	39	32
TX1523-1Ru/Y	64	151	164	195	176	350	0	95	173	152
	20	41	35	52	44	50	0	30	36	34
TX1674-1W/Y	122	120	77	78	90	149	0	41	110	87
	34	27	15	24	24	25	0	15	25	21
Mean	69	98	120	133	126	168	2	40	114	95
	18	21	22	31	27	24	1	13	24	20

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	SE	SL	MV	
Dark Red Norland	4	29	23	41	58	143	3	10	36	39
	1	5	5	9	14	24	2	3	7	8
Red LaSoda	31	50	72	36	88	121	4	18	19	49
	7	10	12	8	17	21	2	6	3	10
Yukon Gold	0	23	22	3	14	149	3	1	67	31
	0	5	5	1	3	25	1	0	17	6
A92584-3BB	11	18	8	12	10	120	2	0	18	22
	3	4	2	3	2	16	1	0	5	4
AO93487-2R	5	3	---	6	46	66	0	0	14	18
	1	1	---	1	9	12	0	0	3	3
AO96747-1R	13	11	---	9	7	96	6	31	15	24
	3	2	---	2	2	14	3	9	4	5
AO96747-2R/Y	6	7	---	3	8	98	7	5	7	18
	2	1	---	1	2	13	3	2	2	3
BTX1544-2W/Y	10	13	28	27	33	108	5	1	38	29
	3	3	5	6	6	16	2	0	8	5
CO93037-6R	30	36	48	34	37	109	1	0	27	36
	7	7	7	9	7	13	0	0	6	6
NDA5507-3YF	26	8	---	3	35	93	1	1	32	25
	6	2	---	1	7	10	1	1	6	4
NDC5281-2	31	13	5	11	67	91	1	0	16	26
	8	3	1	2	14	13	1	0	5	5
NDO4323-2R	59	75	59	64	208	133	1	1	46	72
	17	15	11	16	41	20	0	0	11	15
NDTX4271-5R	35	12	25	38	31	98	0	0	56	33
	9	2	5	9	7	14	0	0	17	7
NDTX4304-1R	20	31	48	35	88	133	1	0	63	47
	5	6	8	7	18	17	0	0	13	8
TX1523-1Ru/Y	20	2	11	5	8	98	3	0	46	21
	6	1	2	1	2	14	1	0	10	4
TX1674-1W/Y	3	22	18	3	12	112	11	0	42	25
	1	5	4	1	3	19	5	0	10	5
Mean	19	22	31	21	47	111	3	4	34	32
	5	5	6	5	10	16	1	1	8	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	MV	
Dk. Red Norland	1.072	1.085	1.074	1.065	1.069	1.057	1.049	1.057	1.068	1.066
Red LaSoda	1.074	1.078	1.082	1.068	1.072	1.056	1.051	1.052	1.072	1.067
Yukon Gold	1.087	1.089	1.084	1.088	1.082	1.090	1.059	1.065	1.087	1.081
A92584-3BB	1.078	1.099	1.086	1.081	1.076	1.072	1.054	1.061	1.079	1.076
AO93487-2R	1.075	1.072	---	1.069	1.064	1.060	1.055	1.057	1.074	1.066
AO96747-1R	1.071	1.080	---	1.075	1.074	1.069	1.048	1.055	1.076	1.069
AO96747-2R/Y	1.082	1.069	---	1.077	1.076	1.073	1.056	1.052	1.068	1.069
BTX1544-2W/Y	1.081	1.085	1.083	1.080	1.080	1.067	1.063	1.064	1.081	1.076
CO93037-6R	1.075	1.083	1.084	1.074	1.075	1.071	1.044	1.059	1.064	1.070
NDA5507-3YF	1.074	1.078	---	1.078	1.079	1.076	1.051	1.052	1.075	1.070
NDC5281-2	1.076	1.083	1.090	1.079	1.075	1.072	1.051	1.064	1.085	1.075
NDO4323-2R	1.079	1.082	1.087	1.078	1.076	1.069	1.053	1.061	1.080	1.074
NDTX4271-5R	1.074	1.075	1.075	1.067	1.067	1.063	1.049	1.053	1.071	1.066
NDTX4304-1R	1.071	1.063	1.078	1.063	1.059	1.057	1.048	1.054	1.065	1.062
TX1523-1Ru/Y	1.082	1.090	1.089	1.083	1.075	1.073	1.056	1.067	1.085	1.078
TX1674-1W/Y	1.088	1.089	1.095	1.091	1.081	1.083	1.059	1.066	1.087	1.082
Mean	1.077	1.081	1.084	1.076	1.074	1.069	1.053	1.059	1.076	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
	AB	COR	S E	S L	MV		KRN	TUL	SLV	AB	KLM	SPR E/L	MV	
Dk. Red Norland	8.1	6.1	3.9	4.6	7.5	6.0	2.0	2.0	2.0	2.3	3.0	3.0	2.0	2.3
Red LaSoda	9.9	7.5	4.5	4.8	8.5	7.0	2.5	2.0	2.0	2.0	3.0	3.0	2.5	2.4
Yukon Gold	8.1	7.7	3.8	4.7	7.0	6.3	2.0	2.3	2.0	1.5	2.0	3.2	2.0	2.1
A92584-3BB	4.6	4.9	2.6	3.7	3.4	3.8	1.5	1.8	1.0	2.3	1.0	3.4	1.0	1.7
AO93487-2R	5.5	5.4	3.1	4.0	5.4	4.7	2.0	1.3	---	1.3	1.0	2.5	1.5	1.6
AO96747-1R	6.0	4.9	2.4	3.1	4.0	4.1	1.3	1.0	---	1.0	1.0	2.2	1.0	1.3
AO96747-2R/Y	4.3	4.8	2.2	2.2	5.2	3.7	1.5	1.0	---	1.0	1.0	2.7	1.5	1.5
BTX1544-2W/Y	7.3	7.6	3.9	4.6	5.7	5.8	3.0	2.0	2.0	2.0	2.8	3.1	2.8	2.5
CO93037-6R	6.0	6.4	3.4	4.2	4.9	5.0	1.0	1.0	1.0	1.0	2.0	2.7	2.0	1.5
NDA5507-3YF	5.8	7.4	2.2	3.1	6.7	5.0	3.3	2.3	---	2.3	2.1	2.6	3.0	2.6
NDC5281-2	5.3	5.0	2.3	4.0	4.0	4.1	3.0	1.5	1.0	2.3	2.0	3.4	1.5	2.1
NDO4323-2R	6.2	6.2	2.5	4.0	5.8	4.9	2.5	2.0	2.0	2.0	2.0	2.7	2.0	2.2
NDTX4271-5R	7.2	7.1	3.1	4.5	6.6	5.7	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.1
NDTX4304-1R	7.6	7.3	4.5	5.6	6.5	6.3	1.3	1.0	1.0	1.3	2.0	2.5	2.0	1.6
TX1523-1Ru/Y	8.7	10.0	4.0	5.2	7.2	7.0	2.0	2.5	1.0	2.0	1.3	2.7	3.0	2.1
TX1674-1W/Y	6.3	6.7	4.2	4.6	6.6	5.7	4.0	2.8	4.0	3.8	3.0	3.9	3.3	3.5
Mean	6.7	6.6	3.3	4.2	5.9	5.3	2.1	1.7	1.7	1.8	1.9	2.8	2.0	2.0

Table 16. Eye Depth and Skin Color

Clone	Eye Depth (5 - shallow)							Skin Color (1 - Pale, 5 - Deep Red) (6 - White, 10 - Dk. Russet)							
	ID	OR	CA		TX	WA	Mean	CA		CO	ID	OR	TX	WA	Mean
	AB	KLM	KRN	TUL	SPR	E/L		MV	KRN	TUL	SLV	AB	KLM	SPR	
Dk. Red Norland	3.3	2.5	4.0	3.3	3.4	2.0	3.1	3.0	2.8	3.0	3.8	3.3	3.3	2.0	3.0
Red LaSoda	1.8	1.3	1.5	2.0	1.8	1.0	1.6	3.0	2.8	1.0	3.3	3.0	3.3	1.0	2.5
Yukon Gold	4.5	3.0	3.0	4.3	4.1	4.0	3.8	---	7.0	6.0	6.0	7.0	6.8	6.5	6.5
A92584-3BB	4.5	4.5	4.5	5.0	3.9	4.0	4.4	6.0	6.0	6.0	6.0	6.0	6.5	6.0	6.1
AO93487-2R	3.5	4.0	5.0	4.0	3.6	3.5	3.9	3.0	3.5	---	3.8	4.5	3.1	4.0	3.6
AO96747-1R	3.3	2.5	4.0	4.0	2.9	2.0	3.1	4.0	3.3	---	4.3	5.0	3.0	3.0	3.8
AO96747-2R/Y	3.5	3.3	3.5	3.8	3.4	3.0	3.4	4.5	4.0	---	3.8	5.0	3.8	4.0	4.2
BTX1544-2W/Y	2.5	2.3	3.0	3.5	3.8	3.8	3.2	---	6.7	6.0	6.0	6.0	6.8	7.0	6.4
CO93037-6R	3.8	3.0	5.0	3.8	3.9	2.8	3.7	5.0	4.3	5.0	5.0	4.0	5.0	5.0	4.8
NDA5507-3YF	4.3	2.5	4.3	4.5	4.0	4.0	3.9	6.5	7.0	---	6.0	7.0	6.5	7.0	6.7
NDC5281-2	4.0	4.0	4.0	5.0	3.6	2.8	3.9	4.0	4.0	4.0	4.3	5.0	4.3	4.5	4.3
NDO4323-2R	3.5	3.0	3.5	3.8	3.6	2.8	3.4	4.0	4.0	3.0	4.3	4.8	3.8	4.5	4.1
NDTX4271-5R	3.0	3.5	4.3	4.0	3.7	3.3	3.6	4.0	4.0	4.0	4.5	4.3	4.9	4.0	4.2
NDTX4304-1R	3.5	3.0	4.3	4.8	4.0	3.0	3.8	5.0	3.8	3.0	4.3	4.8	3.7	2.0	3.8
TX1523-1Ru/Y	3.8	4.0	4.0	4.0	4.2	4.0	4.0	2.0	8.0	8.0	6.0	8.0	8.5	8.0	6.9
TX1674-1W/Y	4.5	4.0	4.0	4.3	4.1	4.0	4.1	---	7.0	6.0	6.0	6.5	6.8	8.0	6.7
Mean	3.6	3.2	3.9	4.0	3.6	3.1	3.6	---	---	---	---	---	---	---	---

Table 17. Growth Cracks and Skinning

Clone	Growth Cracks (5 - none)						Skinning (5 - none)				
	CO SLV	ID AB	OR KLM	TX SPR E/L	WA MV	Mean	OR KLM	TX SPR E/L	WA MV	ID AB	Mean
Dk. Red Norland	4.0	3.5	3.5	5.0	4.3	4.1	4.3	---	2.0	3.0	3.1
Red LaSoda	2.0	3.8	3.0	5.0	4.5	3.7	3.0	---	2.0	2.0	2.3
Yukon Gold	4.0	5.0	4.5	5.0	4.5	4.6	4.8	---	4.0	4.0	4.3
A92584-3BB	5.0	4.8	4.8	5.0	5.0	4.9	4.5	---	2.0	3.3	3.3
AO93487-2R	---	4.8	3.8	5.0	4.8	4.6	2.0	---	1.0	2.5	1.8
AO96747-1R	---	4.8	5.0	5.0	4.8	4.9	5.0	---	5.0	3.3	4.4
AO96747-2R/Y	---	5.0	5.0	5.0	4.8	5.0	5.0	---	4.0	3.3	4.1
BTX1544-2W/Y	3.0	4.3	4.3	5.0	4.5	4.2	4.8	---	4.0	4.0	4.3
CO93037-6R	3.0	3.8	4.3	5.0	3.5	3.9	3.0	---	2.0	2.0	2.3
NDA5507-3YF	---	5.0	4.3	5.0	4.8	4.8	4.3	---	1.0	2.8	2.7
NDC5281-2	4.0	4.8	3.3	5.0	3.8	4.2	3.8	---	4.0	2.3	3.4
NDO4323-2R	2.0	2.0	2.0	5.0	3.0	2.8	4.0	---	2.0	3.0	3.0
NDTX4271-5R	3.0	3.3	3.8	4.9	3.3	3.7	3.5	---	2.0	2.8	2.8
NDTX4304-1R	2.0	3.5	2.8	5.0	1.8	3.0	2.8	---	3.0	2.8	2.9
TX1523-1Ru/Y	4.0	5.0	5.0	5.0	4.8	4.8	4.8	---	4.0	3.8	4.2
TX1674-1W/Y	5.0	5.0	4.8	5.0	4.8	4.9	5.0	---	3.0	3.8	3.9
Mean	3.4	4.3	4.0	5.0	4.2	4.2	4.0	---	2.8	3.0	3.3

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	MV	
Dk. Red Norland	0	50	0	8	10	0	0	3	9
Red LaSoda	8	0	21	0	3	3	0	0	4
Yukon Gold	8	8	0	0	5	4	0	18	5
							0		
A92584-3BB	0	0	0	0	0	3	0	0	0
AO93487-2R	0	0	---	0	0	0	0	0	0
AO96747-1R	0	0	---	3	0	0	3	0	1
AO96747-2R/Y	0	0	---	0	0	0	0	0	0
BTX1544-2W/Y	0	0	6	10	3	3	0	3	3
CO93037-6R	0	0	0	0	10	0	0	0	1
NDA5507-3YF	0	8	---	0	3	1	0	0	2
NDC5281-2	0	0	0	0	5	0	0	0	1
NDO4323-2R	0	0	0	3	0	3	0	0	1
NDTX4271-5R	0	0	0	0	0	3	0	0	0
NDTX4304-1R	0	0	1	0	0	0	0	3	1
TX1523-1Ru/Y	0	17	0	0	3	0	0	8	4
TX1674-1W/Y	0	0	0	0	3	0	0	0	0
Mean	1	5	2	2	3	1	0	2	2

Table 19. Fresh Market Quality (Merit) Rating

Clone	Fresh market quality (1-poor, 5-best)						Mean
	CA		CO	ID	TX	WA	
	KRN	TUL	SLV	AB	SPR E/L	MV	
Dk. Red Norland	3.0	2.0	2.0	2.3	3.1	2.0	2.5
Red LaSoda	2.5	2.5	1.0	1.8	2.9	1.0	2.1
Yukon Gold	4.0	3.8	3.0	4.0	3.3	1.0	3.6
A92584-3BB	3.0	3.5	2.0	3.3	3.2	3.0	3.0
AO93487-2R	3.5	4.0	--	4.0	3.3	3.0	3.7
AO96747-1R	4.0	4.3	--	3.3	2.8	4.0	3.6
AO96747-2R/Y	4.0	3.3	--	4.0	2.3	3.0	3.4
BTX1544-2W/Y	4.0	3.0	4.0	3.3	3.0	2.0	3.5
CO93037-6R	4.0	3.5	4.0	3.3	2.8	4.0	3.5
NDA5507-3YF	4.0	3.7	--	3.5	2.1	2.0	3.3
NDC5281-2	3.0	4.0	3.0	3.8	3.0	3.0	3.4
NDO4323-2R	3.0	2.5	2.0	3.0	2.9	3.0	2.7
NDTX4271-5R	4.3	4.0	3.0	3.5	3.6	3.0	3.7
NDTX4304-1R	3.7	3.0	2.0	3.0	3.9	1.0	3.1
TX1523-1Ru/Y	4.0	4.0	4.0	3.8	3.5	2.0	3.9
TX1674-1W/Y	3.0	2.8	4.0	3.3	2.8	2.0	3.2
Mean	3.6	3.4	2.8	3.3	3.0	2.4	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	25.0	18.2	17.2	16.8	52.2	19.5	6.5	0.03	0.22	26.5	2.5
Red LaSoda	36.0	17.8	15.0	20.4	53.2	19.9	6.4	0.04	0.22	28.3	3.7
Yukon Gold	28.0	19.1	19.9	20.4	59.4	23.7	6.4	0.01	0.23	39.8	2.9
A92584-3BB	45.0	18.0	17.8	17.2	53.0	22.1	6.3	0.00	0.19	27.2	4.1
AO93487-2R	10.0	16.0	15.2	17.2	48.4	19.6	5.9	0.02	0.21	29.4	1.3
AO96747-1R	5.0	16.4	15.6	19.8	51.8	20.7	6.4	0.01	0.18	22.5	3.0
AO96747-2R/Y	15.0	18.4	18.0	15.0	51.4	21.0	5.8	0.02	0.54	24.2	0.8
BTX1544-2W/Y	13.0	17.2	21.0	19.4	57.6	21.0	5.7	0.01	0.18	27.9	2.7
CO93037-6R	5.0	16.0	18.6	18.4	53.0	21.2	4.7	0.07	0.56	21.0	1.4
NDA5507-3YF	NA	18.0	15.6	17.4	51.0	20.7	5.6	0.01	0.17	25.9	5.4
NDC5281-2	15.0	18.2	20.2	20.4	58.8	21.6	5.8	0.01	0.33	20.9	4.6
NDO4323-2R	15.0	14.9	19.0	18.8	52.7	21.9	4.9	0.02	0.32	24.5	2.6
NDTX4271-5R	10.0	18.2	19.8	17.8	55.8	19.8	5.5	0.01	0.39	20.2	4.9
NDTX4304-1R	21.0	17.4	17.6	17.6	52.6	18.8	5.0	0.02	0.27	22.6	2.9
TX1523-1Ru/Y	10.0	16.3	17.6	17.4	51.3	21.8	5.6	0.01	0.22	26.9	2.2
TX1674-1W/Y	10.0	15.8	20.8	17.2	53.8	23.2	6.3	0.01	0.25	26.7	3.3
Mean	17.5	17.2	18.1	18.2	53.5	21.0	5.8	0.0	0.28	25.9	3.0

^{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	HH/BC	Vine Size	Vine Mat.	Total Yield	% 4-10	% >10	% <4	Yield <4-10 oz	% <4-10 oz	Specific gravity	Fresh Merit	Disposition 2002
1	Dk. Red Norland	94	8.9	2.8	1.8	435	57	22	13	292	70	1.066	2.5	
2	Red LaSoda	91	4.4	3.4	2.8	461	45	37	9	228	53	1.067	2.1	
3	Yukon Gold	91	5.4	3.2	2.3	404	50	32	12	234	62	1.085	3.6	
4	A92584-3BB	94	0.4	3.5	3.4	432	55	5	36	386	91	1.076	3.0	
5	AO93487-2R	95	0.0	2.7	1.8	401	64	13	20	326	84	1.066	3.7	
6	AO96747-1R	92	0.9	3.2	3.2	445	57	13	25	358	82	1.069	3.6	
7	AO96747-2R/Y	93	0.0	3.7	2.8	421	57	8	32	363	89	1.069	3.4	
8	BTX1544-2W/Y	91	3.1	3.2	2.2	440	59	22	14	302	72	1.076	3.5	
9	CO93037-6R	92	1.3	4.2	3.7	473	56	17	20	345	76	1.070	3.5	
10	NDA5507-3YF	85	1.7	3.7	3.0	440	52	19	25	307	76	1.070	3.3	
11	NDC5281-2	89	0.6	3.4	2.3	418	56	7	32	361	88	1.075	3.4	
12	NDO4323-2R	93	0.8	3.2	2.5	426	54	12	19	297	73	1.074	2.7	
13	NDTX4271-5R	86	0.4	3.2	2.7	451	56	23	14	310	70	1.066	3.7	
14	NDTX4304-1R	90	0.5	3.0	2.4	488	49	32	11	279	60	1.062	3.1	
15	TX1523-1Ru/Y	91	3.5	3.2	2.1	408	52	34	10	234	62	1.078	3.9	
16	TX1674-1W/Y	92	0.4	3.4	3.2	389	59	21	15	277	74	1.082	3.2	
Mean		91	2.0	3.3	2.6	433	55	20	19	306	74	1.072	3.3	

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	47	89	165	301	128	23	452	1.066	8	2.8	2.8	54.7
Red LaSoda	29	55	128	212	173	60	445	1.068	15	2.2	2.1	53.4
Yukon Gold	35	64	127	226	147	26	399	1.081	6	Yellow	3.5	59.2
NDO4323-3R	69	102	142	313	57	55	425	1.073	1	3.8	3.0	54.5
TX1523-1Ru/Y	36	64	137	237	139	19	395	1.078	2	Lt. Russet	3.6	55.1

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