

# 2005 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

State Experiment Stations and  
USDA-ARS Cooperating

California

Colorado

Idaho

Oregon

Texas

Washington



## 2005 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

### TABLE

- 1 Locations, Cooperators, and Cultural Information
  - 2 Clone, Parentage, Flower Color, Seed and Trial Information, Stand, Tuber and Vine Characteristics
  - 3 Total Yield (CWT/A) - Early & Late Harvest
  - 4 Yield of U.S. No. 1's (CWT/A & %) - Early & Late Harvest
  - 5 Yield of U.S. No. 1's over 10/12 oz. (CWT/A & %) - Early & Late Harvest
  - 6 Yield of Tubers Under 4 oz. (CWT/A & %) - Early & Late Harvest
  - 7 Specific Gravity - Early & Late Harvest
  - 8 Average Tuber Size, and Tuber Shape
  - 9 External Defects - Growth Cracks, 2nd Growth, Shatter Bruise, and Scab
  - 10 Internal Defects - Hollow Heart/Brown Center, Internal Brown Spot, Vascular Discoloration, Blackspot
  - 11 French Fry Color and Percent Sugar Ends
  - 12 Disease Evaluations - Aberdeen, Swan Valley, Hermiston, Corvallis, and Prosser, and Metribuzin Reaction
  - 13 Solids, Dextrose, Sucrose, Protein, Vitamin C, and Glycoalkaloids - Aberdeen
  - 14 Merit Scores
  - 15 Entry Summary
  - 16 Three Year Summary of Graduating Entries
- Appendices - Economic Analyses of Early and Late Trial Entries

**Western Regional Potato Variety Trial Reports (1998-2005) can be accessed at the following websight:**

[www.ars.usda.gov/main/docs.htm?docid=3019](http://www.ars.usda.gov/main/docs.htm?docid=3019)

Compiled by Brian Schneider  
Revision - 2/21/2006

**TABLE 1: 2005 Western Regional Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION**

No.	Locations	Cooperators	Trial	Irrigation	Fertilizer N-P-K-S(lb/A)	Planting Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Pesticides Applied <sup>1</sup>		
											Insecticides	Fungicides	
1	Tulelake California ( <b>TUL</b> )	D. Kirby, H. Carlson	Late	Sprink.	194-234	1-Jun	14-Oct	109	135	Matrix Lexone DF	Pounce	Maxim, Quadris Curzate, Dithane-45 Bravo, Echo, Manzate	
								Frost					
2	San Luis Valley Colorado ( <b>SLV</b> )	D. Holm, P. Naranjo	Late	Pivot	120-60-40-25+	13-May	22-Sep	112	132	Dual Magnum	Leverage	Amistar	
								Sulfuric Acid					
3	Aberdeen Idaho ( <b>AB</b> )	J. Stark, R. Novy, J. Whitworth, P. Bain M. Chappell, B. Schneider	Late	Sprink.	210-100-100	27-Apr	23-Sep	132	149	Sencor DF Matrix, Eptam	Admire	Curzate, Dithane	
								Reglone					
4	Kimberly Idaho ( <b>KIM</b> )	J. Stark, R. Novy, J. Whitworth, P. Bain M. Chappell, B. Schneider	Late	Sprink.	250-270-300	5-May	11-Oct	132	159	Eptam Outlook	Temik Guacho	Dithane, Bravo	
								Mechanical					
5	Hermiston Oregon ( <b>HRM</b> )	D. Hane, L. Leroux	Early	Pivot	260-80-175-40+	24-Mar	26-Jul	110	124	<b>Eptam, Matrix Enquik</b>	<b>Mocap, Admire Asana, Monitor Agrimek</b>	<b>Vapam, Maxim 4FS Ridomil Gold, Quadris Bravo, Dithane, Omega</b>	
			Late	Pivot	330-80-175-40+	6-Apr	19-Sep	153	166				
								Enquik	Enquik				
6	Klamath Falls Oregon ( <b>KLM</b> )	K. Rykbost, B. Charlton	Late	Sprink.	160-80-80-140	25-May	7-Oct	113	135	Dual, Prowl Matrix	Admire, Monitor Telone II	Tops MZ, Quadris Dithane, Bravo Ridomil Gold	
								Reglone					
7	Malheur Oregon ( <b>MAL</b> )	C. Shock, E. Eldredge	Early	Sprink.	252-17-32-115+	13-Apr	22-Aug	124	131	<b>Vapam, Prowl Dual</b>	<b>Guacho</b>	<b>Tops MZ, Bravo Ridomil Gold, Endura sulfur, Bravo, Tanos</b>	
			Late	Sprink.	252-17-32-115+	19-Apr	4-Oct	161	168				
								Mech.	Mech.				
8	Springlake Texas ( <b>SPR</b> )	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	130-25-25-0	22-Mar	1-Aug	125	132	Roundup, Dual Matrix, Sencor	Dimethoate Baythroid	Tops MZ, Gaucho Quadris, Bravo	
								Mechanical					
9	PASCO ( <b>PAS</b> ) Othello ( <b>OTH</b> ) Washington	Greenridge Farms M. Pavek, E. Driskill, R. Knowles	Early	Sprink.	400-180-461	24-Mar	2-Aug	127	131	Sencor DF Trifulrex HFP	Monitor, Asana Leverage	Vapam, Omega, Echo Vydate, Ridomil, Anustar	
			Late	Pivot	305-330-350	19-Apr	27-Sep	150	161	<b>Eptam, Prowl Matrix</b>	Asana, Oberon	Manzate Polyram Dithane, Bravo	
								Mech.	Mech.				

<sup>1</sup>**Bold indicates use in both early and late trials.**

**TABLE 2: 2005 Western Regional Potato Variety Trial - CLONE, PARENTAGE, FLOWER COLOR, ENTRY SUBMISSION, USE, TRIAL, YEARS IN TRIAL, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS**

No.	Clone	Parents	Flower Color <sup>1</sup>	Entered by	Use	Year in Trial	Seed Trial	Stand <sup>2</sup>	Tuber and Vine Descriptions <sup>2</sup>									
									Tuber Shape (1-5) <sup>3</sup>	Tuber Skin (1-5) <sup>4</sup>	Vine Size (1-5) <sup>5</sup>	Vine Maturity (1-5) <sup>6</sup>	Stems/Hill					
1	Ranger Russet	Butte A6595-3	RP	Ck	Dual	E/L	-	OR	98	Long	4.4	Med Russet	3.7	Med-Large	3.4	Medium	3.3	2.1
2	Russet Burbank	Early Rose ?	W	Ck	Dual	E/L	-	OR	98	Long	4.1	Med Russet	3.5	Med-Large	3.4	Med Early	2.9	2.4
3	Russet Norkotah	ND9687-5Russ ND9526-4Russ	W	Ck	Fresh	E/L	-	OR	96	Long	4.1	Med Hvy Rus	4.3	Small	2.3	Early	1.8	2.4
4	Shepody	Bake-King F58050	RP	Ck	Proc	E	-	OR	98	Oblong	3.4	White	1.5	Med-Large	3.5	Med-Late	3.6	2.3
5	A92030-5	A8603-20 A83043-12	W	ID	Dual	E/L	3	OR	96	Oblong	3.5	Heavy Rus	4.6	Med-Large	3.2	Med Early	2.7	1.8
6	A92294-6	A86332-7 Summit Russet	W	ID	Proc	E/L	3	OR	98	Obl-Lng	3.9	White	1.6	Med-Large	3.6	Med-Late	3.6	3.5
7	A93157-6LS	A87149-4 A88108-7	W	ID	Dual	E/L	3	OR	96	Obl-Lng	3.7	Med Russet	4.1	Med-Large	3.4	Medium	3.4	2.5
8	A95109-1	A8893-1 Summit Russet	W	ID	Dual	E/L	2	OR	95	Obl-Lng	3.7	Med Russet	3.9	Med-Large	3.2	Medium	3.5	2.3
9	A95409-1	A89146-8 Ranger Russet	RP	ID	Dual	E/L	1	OR	97	Obl-Lng	3.7	Light Russet	2.9	Med-Large	3.4	Medium	3.1	2.0
10	A96095-3	A8894-8 A91194-3	W	ID	Dual	E/L	1	OR	97	Obl-Lng	3.9	Med Russet	3.2	Medium	3.0	Med Early	2.8	2.4
11	A96104-2	A88236-4 A89512-3	RP	ID	Dual	E/L	1	OR	98	Obl-Lng	3.6	Med Hvy Rus	4.3	Med-Large	3.2	Medium	3.2	2.5
12	AO96160-3	A89384-10 A89512-3	RP	OR	Dual	E/L	2	OR	98	Obl-Lng	3.9	Med Hvy Rus	4.3	Med-Large	3.1	Medium	3.2	2.4
13	AO96164-1	A89384-10 A91194-4	W	OR	Dual	E/L	1	OR	97	Obl-Lng	4.0	Med Hvy Rus	4.1	Med-Large	3.7	Med Early	2.9	2.2
14	AOA95154-1	Bannock A89152-4	P	ID	Dual	E/L	1	OR/ID	97	Obl-Lng	3.8	Med Russet	3.9	Med-Large	3.3	Med-Late	3.7	2.6
15	AOA95155-7	Bannock A89163-3LS	RP	ID	Dual	E/L	1	OR	96	Obl-Lng	3.8	Med Russet	3.6	Med-Large	3.2	Med-Late	3.9	2.0
16	ATX91137-1Ru	A81473-2 A8343-12	LAV	TX	Dual	E/L	1	CO	94	Obl-Lng	3.8	Med Hvy Rus	4.4	Medium	2.7	Med Early	2.7	1.7
17	CO94035-15RU	AO80432-1 Silverton Russet	W	CO	Dual	E/L	1	CO	96	Obl-Lng	3.6	Med Hvy Rus	4.4	Med-Large	3.7	Medium	3.3	2.3
18	CO95086-8RU	CO87009-4 Silverton Russet	W	CO	Dual	E/L	1	CO	96	Obl-Lng	3.6	Med Russet	3.8	Medium	3.1	Early	2.0	2.8
19	CO95172-3RU	Russet Nugget AC88165-3	RP	CO	Dual?	E/L	1	CO	97	Obl-Lng	3.8	Med Russet	3.7	Med-Large	3.4	Medium	3.5	2.7
20	MWTX2609-2Ru	Burbank OntarioX4Xhybrid	W	TX	Dual	E/L	1	CO	95	Obl-Lng	3.8	Light Russet	2.8	Med-Large	3.6	Medium	3.2	2.6
21	PA97B3-2	A8469-5 A77715-6	W	WA	Dual	E/L	1	OR	97	Oblong	3.4	Med Russet	3.4	Small	2.5	Early	2.4	2.7
22	TXA549-1Ru	ND9687-23RU ND9567-2RU	RP	TX	Dual	E/L	1	CO	96	Oblong	3.2	Med Russet	3.5	Med-Large	3.6	Med Early	3.0	3.6

<sup>1</sup> P=Purple, R=Red, W=White, LAV=Lavender

<sup>2</sup> Numerical values are means of all trial locations.

<sup>3</sup> 1.0-2.0=Round, 2.1-2.5=Round-Oblong, 2.6-3.5=Oblong, 3.6-4.0=Oblong-Long, 4.1-5.0=Long

<sup>4</sup> 1.0-2.0=White, 2.1-3.0=Light Russet, 3.1-4.0=Medium Russet, 4.1-4.5=Medium Heavy Russet, 4.6-5.0 Heavy Russet

<sup>5</sup> 1.0-2.5=Small, 2.6-3.0=Medium, 3.1-4.0=Medium-Large, 4.1-4.5=Large, 4.6-5.0=Very Large

<sup>6</sup> 1.0-2.5=Early, 2.6-3.0=Medium-Early, 3.1-3.5=Medium, 3.6-4.0=Medium-Late, 4.1-4.5=Late, 4.6-5.0=Very Late

TABLE 3: 2005 Western Regional Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY AND LATE HARVEST

No. Clone	Total Yield - Early Harvest (CWT/A)							Total Yield - Late Harvest (CWT/A)										
	OR		TX SPR	WA PAS	Entry Mean/Rank			CA TUL	CO SLV	ID		OR			WA OTH	Entry Mean/Rank		
	HRM	MAL								AB	KIM	HRM	KLM	MAL				
1 RANGER R.	598	589	263	600	513	13	fg	415	491	509	562	1101	558	650	761	631	7	bcde
2 R. BURBANK	550	679	276	646	538	10	cdefg	348	551	394	603	1116	544	650	643	606	10	cdef
3 R. NORKOTAH	622	546	301	573	510	14	fg	307	286	301	474	686	506	435	644	455	21	j
4 SHEPODY	596	665	227	607	524	11	defgh	-	450	-	-	-	-	615	-	-		
5 A92030-5	605	535	194	604	484	18	ghi	326	472	405	533	813	460	457	558	503	18	hij
6 A92294-6	648	644	307	702	575	6	bcde	410	504	605	699	1380	457	666	865	698	2	ab
7 A93157-6LS	579	606	239	585	502	17	fg	430	482	495	599	1254	468	614	759	638	6	bcd
8 A95109-1	628	552	203	697	520	12	efgh	361	454	480	481	1250	528	492	778	603	11	defg
9 A95409-1	564	660	313	653	547	8	cdef	370	502	467	619	1266	515	661	777	647	5	abcd
10 A96095-3	686	628	342	719	594	3	bc	453	473	391	495	1070	568	575	802	603	11	defg
11 A96104-2	688	729	225	702	586	4	bc	460	540	594	627	1379	541	688	752	698	2	ab
12 AO96160-3	644	593	181	617	509	15	fg	380	477	501	567	1123	498	559	684	599	13	defg
13 AO96164-1	700	692	257	680	582	5	bcd	443	451	500	567	1236	537	603	640	622	9	cdef
14 AOA95154-1	525	474	174	555	432	21	ij	420	467	474	494	1065	406	477	678	560	14	efgh
15 AOA95155-7	510	478	78	534	400	22	j	423	445	405	545	913	525	565	579	550	15	fghi
16 ATX91137-1Ru	620	591	332	639	546	9	cdef	276	481	462	588	787	463	540	653	531	16	ghi
17 CO94035-15RU	555	518	239	542	464	20	hi	266	345	429	397	1100	403	562	627	516	17	hij
18 CO95086-8RU	625	559	205	545	483	19	ghi	256	373	294	389	854	494	529	620	476	20	ij
19 CO95172-3RU	677	648	208	688	555	7	cdef	408	513	511	602	1178	464	648	678	625	8	bcde
20 MWTX2609-2Ru	730	802	433	830	699	1	a	359	574	526	781	1345	564	722	877	718	1	a
21 PA97B3-2	588	517	311	621	509	15	fg	412	-	388	458	725	406	427	684	500	19	
22 TXA549-1Ru	691	682	337	769	620	2	b	464	536	463	578	1231	582	671	910	679	4	abc
<b>Location Means</b>	620	608	257	641	531			380	470	457	555	1089	499	582	713	593		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.

TABLE 4: 2005 Western Regional Potato Variety Trial - YIELD OF U.S. #1'S [CWT/A (upper) and % (lower)] - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's - Early Harvest (CWT/A) and %						U.S. No. 1's - Late Harvest (CWT/A) and %											
	OR		TX	WA	Entry		CA	CO	ID		OR	WA	Entry					
	HRM	MAL	SPR	PAS	Mean/Rank		TUL	SLV	AB	KIM	HRM	KLM	MAL	OTH	Mean/Rank			
1 RANGER R.	494	451	151	524	<b>405</b>	<b>13</b>	defg	348	449	415	398	893	389	526	661	<b>510</b>	<b>9</b>	bcdefg
	83	77	57	87	<b>76</b>	<b>11</b>		84	91	82	71	81	70	81	87	<b>81</b>	<b>17</b>	
2 R. BURBANK	368	418	71	491	<b>337</b>	<b>20</b>	ghi	226	450	255	377	648	285	255	376	<b>359</b>	<b>21</b>	j
	67	62	26	76	<b>58</b>	<b>22</b>		65	82	65	63	58	52	39	58	<b>60</b>	<b>21</b>	
3 R. NORKOTAH	472	477	226	484	<b>415</b>	<b>11</b>	cdef	258	243	215	403	549	461	346	544	<b>377</b>	<b>20</b>	ij
	76	88	75	84	<b>81</b>	<b>6</b>		84	85	71	85	80	91	79	84	<b>82</b>	<b>13</b>	
4 SHEPODY	550	369	112	505	<b>384</b>	<b>16</b>	fgh	-	413	-	-	-	-	359	-	-	-	
	92	55	49	83	<b>70</b>	<b>18</b>		-	92	-	-	-	-	59	-	-	-	
5 A92030-5	528	437	155	512	<b>408</b>	<b>12</b>	cdefg	270	429	332	464	721	394	372	492	<b>434</b>	<b>17</b>	ghij
	87	82	80	85	<b>83</b>	<b>4</b>		83	91	82	87	89	86	82	88	<b>86</b>	<b>4</b>	
6 A92294-6	362	454	148	570	<b>383</b>	<b>17</b>	fgh	279	410	426	405	1029	359	476	680	<b>508</b>	<b>11</b>	bcdefg
	56	70	48	81	<b>64</b>	<b>21</b>		68	81	70	58	75	79	71	79	<b>73</b>	<b>20</b>	
7 A93157-6LS	473	533	150	508	<b>416</b>	<b>10</b>	bcdef	384	392	426	510	1078	399	529	638	<b>544</b>	<b>5</b>	abc
	82	88	63	87	<b>80</b>	<b>8</b>		89	81	86	85	86	85	87	84	<b>85</b>	<b>5</b>	
8 A95109-1	575	509	147	660	<b>473</b>	<b>6</b>	abcde	303	424	427	433	1168	482	386	700	<b>540</b>	<b>6</b>	abcd
	92	92	72	95	<b>88</b>	<b>1</b>		84	93	89	90	93	91	78	90	<b>89</b>	<b>2</b>	
9 A95409-1	505	579	236	611	<b>483</b>	<b>3</b>	abc	314	460	424	522	1216	440	515	718	<b>576</b>	<b>3</b>	ab
	90	88	76	94	<b>87</b>	<b>2</b>		85	92	91	84	96	85	78	93	<b>88</b>	<b>3</b>	
10 A96095-3	620	441	264	544	<b>467</b>	<b>7</b>	abcde	348	430	318	385	806	448	384	588	<b>463</b>	<b>14</b>	efgh
	90	70	77	76	<b>78</b>	<b>9</b>		77	91	81	78	75	79	66	73	<b>78</b>	<b>18</b>	
11 A96104-2	478	592	89	621	<b>445</b>	<b>8</b>	bcdef	395	473	500	516	1122	459	509	661	<b>579</b>	<b>2</b>	ab
	69	81	40	88	<b>70</b>	<b>18</b>		86	88	84	82	81	85	74	88	<b>83</b>	<b>8</b>	
12 AO96160-3	478	493	99	543	<b>403</b>	<b>14</b>	efg	332	387	437	486	1002	448	451	554	<b>512</b>	<b>8</b>	bcde
	74	83	54	88	<b>75</b>	<b>12</b>		87	81	87	86	89	90	80	81	<b>85</b>	<b>5</b>	
13 AO96164-1	612	568	168	622	<b>492</b>	<b>2</b>	ab	370	404	412	390	1105	415	497	543	<b>517</b>	<b>7</b>	abcde
	87	82	65	91	<b>82</b>	<b>5</b>		84	90	82	69	89	77	83	85	<b>82</b>	<b>13</b>	
14 AOA95154-1	283	402	104	478	<b>317</b>	<b>21</b>	hi	365	286	435	433	939	335	375	574	<b>468</b>	<b>13</b>	defgh
	54	85	60	86	<b>71</b>	<b>17</b>		87	61	92	88	88	83	79	85	<b>83</b>	<b>8</b>	
15 AOA95155-7	303	396	39	446	<b>296</b>	<b>22</b>	i	371	347	345	468	774	461	414	480	<b>457</b>	<b>15</b>	efgh
	59	83	50	84	<b>69</b>	<b>20</b>		88	78	85	86	85	88	74	83	<b>83</b>	<b>8</b>	
16 ATX91137-1Ru	557	551	280	519	<b>477</b>	<b>5</b>	abcde	235	429	435	545	719	405	495	582	<b>480</b>	<b>12</b>	cdefg
	90	93	84	81	<b>87</b>	<b>2</b>		85	89	94	93	91	87	92	89	<b>90</b>	<b>1</b>	
17 CO94035-15RU	438	467	152	493	<b>387</b>	<b>15</b>	fgh	224	279	361	327	984	331	439	547	<b>437</b>	<b>16</b>	fghi
	79	90	64	91	<b>81</b>	<b>6</b>		84	81	84	82	89	82	79	87	<b>84</b>	<b>7</b>	
18 CO95086-8RU	442	447	122	477	<b>372</b>	<b>19</b>	fghi	219	326	213	287	698	447	427	552	<b>396</b>	<b>18</b>	hij
	71	80	60	88	<b>75</b>	<b>12</b>		86	87	72	74	82	90	80	89	<b>83</b>	<b>8</b>	
19 CO95172-3RU	482	549	95	592	<b>429</b>	<b>9</b>	bcdef	324	402	446	518	940	395	483	565	<b>509</b>	<b>10</b>	bcdefg
	71	85	46	86	<b>72</b>	<b>16</b>		79	78	87	86	80	85	75	83	<b>82</b>	<b>13</b>	
20 MWTX2609-2Ru	529	667	233	739	<b>542</b>	<b>1</b>	a	300	505	467	607	1121	472	473	782	<b>591</b>	<b>1</b>	a
	72	83	54	89	<b>75</b>	<b>12</b>		84	88	89	78	83	84	65	89	<b>82</b>	<b>13</b>	
21 PA97B3-2	377	427	206	519	<b>382</b>	<b>18</b>	fgh	347	-	230	351	575	324	304	575	<b>387</b>	<b>19</b>	
	64	82	66	84	<b>74</b>	<b>15</b>		84	-	59	77	79	80	71	84	<b>76</b>	<b>19</b>	
22 TXA549-1Ru	481	574	238	636	<b>482</b>	<b>4</b>	abcd	384	405	389	479	969	524	570	774	<b>562</b>	<b>4</b>	ab
	70	84	71	83	<b>77</b>	<b>10</b>		83	75	84	83	79	90	85	85	<b>83</b>	<b>8</b>	
<b>Location Means</b>	<b>473</b>	<b>491</b>	<b>158</b>	<b>550</b>	<b>418</b>			<b>314</b>	<b>397</b>	<b>377</b>	<b>443</b>	<b>907</b>	<b>413</b>	<b>436</b>	<b>599</b>	<b>486</b>		
	<b>76</b>	<b>81</b>	<b>61</b>	<b>86</b>	<b>76</b>			<b>83</b>	<b>85</b>	<b>82</b>	<b>80</b>	<b>83</b>	<b>83</b>	<b>75</b>	<b>84</b>	<b>82</b>		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.

**TABLE 5: 2005 Western Regional Potato Variety Trial - YIELD > 10/12 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST**

U.S. No. 1's > 10/12 OZ - Early Harvest (CWT/A) and %							U.S. No. 1's > 10/12 OZ - Late Harvest (CWT/A) and %											
No. Clone	OR		TX	WA	Entry			CA TUL	CO SLV	ID		OR		WA	Entry			
	HRM	MAL	SPR	PAS	Mean/Rank	AB				KIM	HRM	KLM	MAL	OTH	Mean/Rank			
1 RANGER R.	16	195	33	140	96	10	defg	156	235	84	137	433	163	223	349	222	5	bc
	3	33	12	23	18	10		38	48	17	24	39	29	34	46	34	5	
2 R. BURBANK	0	129	11	47	47	19	fgh	51	132	15	146	148	74	88	98	94	18	f
	0	19	4	7	8	19		15	24	4	24	13	14	13	15	15	18	
3 R. NORKOTAH	3	113	35	84	59	15	fgh	98	52	11	128	39	173	76	198	97	16	f
	0	21	12	15	12	13		32	18	4	27	6	34	17	31	21	13	
4 SHEPODY	111	150	30	338	157	7	abcd	-	230	-	-	-	-	147	-	-	-	
	19	23	13	56	28	5		-	51	-	-	-	-	24	-	-	-	
5 A92030-5	85	278	45	273	170	4	abc	135	247	71	245	329	148	211	198	198	8	bcd
	14	52	23	45	34	2		41	52	18	46	40	32	46	35	39	3	
6 A92294-6	0	106	11	50	42	20	gh	16	66	83	115	141	11	91	189	89	19	f
	0	16	3	7	7	20		4	13	14	16	10	2	14	22	12	20	
7 A93157-6LS	11	128	32	141	78	12	efgh	184	68	98	195	392	139	166	294	192	9	bcd
	2	21	13	24	15	12		43	14	20	33	31	30	27	39	30	8	
8 A95109-1	29	230	37	282	145	8	bcde	56	159	206	208	771	199	148	341	261	2	ab
	5	42	18	40	26	7		16	35	43	43	62	38	30	44	39	3	
9 A95409-1	82	358	75	245	190	2	ab	101	220	122	270	810	211	314	468	314	1	a
	15	54	24	38	33	3		27	44	26	44	64	41	47	60	44	1	
10 A96095-3	130	292	98	341	215	1	a	181	282	91	187	409	250	183	380	245	4	ab
	19	47	29	47	35	1		40	60	23	38	38	44	32	47	40	2	
11 A96104-2	4	165	7	122	74	13	efgh	122	144	75	142	169	119	145	247	146	12	cdef
	1	23	3	17	11	14		27	27	13	23	12	22	21	33	22	12	
12 AO96160-3	0	70	9	128	52	18	fgh	46	54	74	109	154	88	68	110	88	20	f
	0	12	5	21	9	18		12	11	15	19	14	18	12	16	15	18	
13 AO96164-1	75	324	27	285	178	3	abc	85	140	102	186	532	96	208	254	200	7	bc
	11	47	10	42	27	6		19	31	20	33	43	18	34	40	30	8	
14 AOA95154-1	0	19	9	86	28	21	gh	118	5	183	219	151	60	62	81	110	14	ef
	0	4	5	15	6	21		28	1	39	44	14	15	13	12	21	13	
15 AOA95155-7	0	61	0	38	25	22	h	75	49	50	60	216	110	122	193	109	15	ef
	0	13	0	7	5	22		18	11	12	11	24	21	22	33	19	15	
16 ATX91137-1Ru	14	246	78	301	160	6	abcd	78	103	119	283	265	156	211	264	185	10	bcde
	2	42	23	47	29	4		28	21	26	48	34	34	39	40	34	5	
17 CO94035-15RU	15	206	16	217	113	9	cdef	84	54	75	129	502	82	172	204	163	11	cdef
	3	40	7	40	22	8		32	16	17	32	46	20	31	33	28	11	
18 CO95086-8RU	3	99	8	108	54	17	fgh	64	76	19	32	156	136	90	190	95	17	f
	0	18	4	20	10	16		25	20	6	8	18	28	17	31	19	15	
19 CO95172-3RU	10	137	0	128	69	14		84	58	70	168	195	97	116	162	119	13	def
	1	21	0	19	10	16		21	11	14	28	17	21	18	24	19	15	
20 MWTX2609-2Ru	38	335	53	247	168	5	abc	130	180	127	326	519	148	147	466	255	3	ab
	5	42	12	30	22	8		36	31	24	42	39	26	20	53	34	5	
21 PA97B3-2	3	70	12	151	59	15	fgh	83	-	7	22	43	48	12	220	62	21	
	1	14	4	24	11	14		20	-	2	5	6	12	3	32	11	21	
22 TXA549-1Ru	16	155	81	108	90	11	defgh	93	82	122	214	265	232	223	456	211	6	bc
	2	23	24	14	16	11		20	15	26	37	22	40	33	50	30	8	
<b>Location Means</b>	29	176	32	175	103			97	126	86	168	316	130	146	255	165		
	5	28	11	27	18			26	26	18	30	28	26	25	35	27		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.

TABLE 6: 2005 Western Regional Potato Variety Trial - YIELD &lt; 4 OZ [CWT/A (upper) &amp; % (lower)] - EARLY AND LATE HARVEST

No. Clone	Yield < 4 OZ - Early Harvest (CWT/A) and %						Yield < 4 OZ - Late Harvest (CWT/A) and %											
	OR		TX	WA	Entry		CA	CO	ID		OR	WA	Entry					
	HRM	MAL	SPR	PAS	Mean/Rank		TUL	SLV	AB	KIM	HRM	HRM	MAL	OTH	Mean/Rank			
1 RANGER R.	93	22	62	42	<b>55</b>	<b>14</b>	cde	33	24	47	30	72	23	38	34	<b>38</b>	<b>16</b>	fghij
	16	4	24	7	<b>12</b>	<b>14</b>		8	5	9	5	7	4	6	5	<b>6</b>	<b>16</b>	
2 R. BURBANK	148	65	46	88	<b>86</b>	<b>9</b>	abc	42	85	110	37	109	46	74	50	<b>69</b>	<b>6</b>	abc
	27	9	17	14	<b>17</b>	<b>10</b>		12	15	28	6	10	8	11	8	<b>12</b>	<b>3</b>	
3 R. NORKOTAH	142	37	70	62	<b>78</b>	<b>12</b>	abcd	33	40	80	29	107	19	51	41	<b>50</b>	<b>11</b>	cdefg
	23	7	23	11	<b>16</b>	<b>11</b>		11	14	27	6	16	4	12	6	<b>12</b>	<b>3</b>	
4 SHEPODY	31	32	65	15	<b>36</b>	<b>19</b>	e	-	18	-	-	-	-	25	-	-	-	
	5	5	29	2	<b>10</b>	<b>16</b>		-	4	-	-	-	-	4	-	-	-	
5 A92030-5	69	33	39	23	<b>41</b>	<b>17</b>	de	18	28	41	21	69	20	30	44	<b>34</b>	<b>17</b>	ghij
	11	6	20	4	<b>10</b>	<b>16</b>		6	6	10	4	8	4	7	8	<b>7</b>	<b>14</b>	
6 A92294-6	201	40	74	92	<b>102</b>	<b>2</b>	ab	108	82	61	41	99	71	52	78	<b>74</b>	<b>2</b>	a
	31	6	24	13	<b>19</b>	<b>8</b>		26	16	10	6	7	16	8	9	<b>12</b>	<b>3</b>	
7 A93157-6LS	100	50	83	29	<b>66</b>	<b>13</b>	bcde	21	71	43	44	68	32	45	65	<b>49</b>	<b>12</b>	defgh
	17	8	35	5	<b>16</b>	<b>11</b>		5	15	9	7	5	7	7	9	<b>8</b>	<b>13</b>	
8 A95109-1	36	10	57	12	<b>29</b>	<b>22</b>	e	39	23	17	12	32	22	20	31	<b>24</b>	<b>21</b>	j
	6	2	28	2	<b>9</b>	<b>19</b>		11	5	4	2	3	4	4	4	<b>5</b>	<b>19</b>	
9 A95409-1	52	18	59	35	<b>41</b>	<b>17</b>	de	45	17	25	22	33	21	26	23	<b>27</b>	<b>20</b>	ij
	9	3	19	5	<b>9</b>	<b>19</b>		12	3	5	4	3	4	4	3	<b>5</b>	<b>19</b>	
10 A96095-3	51	20	41	22	<b>33</b>	<b>21</b>	e	34	24	37	25	46	13	30	27	<b>29</b>	<b>18</b>	hij
	7	3	12	3	<b>6</b>	<b>22</b>		8	5	9	5	4	2	5	3	<b>5</b>	<b>19</b>	
11 A96104-2	202	56	74	71	<b>101</b>	<b>4</b>	ab	51	58	61	49	130	32	104	68	<b>69</b>	<b>6</b>	abc
	29	8	33	10	<b>20</b>	<b>7</b>		11	11	10	8	9	6	15	9	<b>10</b>	<b>11</b>	
12 AO96160-3	153	55	80	61	<b>87</b>	<b>8</b>	abc	43	80	47	55	75	33	56	115	<b>63</b>	<b>8</b>	abcd
	24	9	44	10	<b>22</b>	<b>4</b>		11	17	9	10	7	7	10	17	<b>11</b>	<b>8</b>	
13 AO96164-1	73	35	53	36	<b>49</b>	<b>16</b>	cde	54	34	35	19	69	44	39	43	<b>42</b>	<b>15</b>	efghij
	10	5	21	5	<b>10</b>	<b>16</b>		12	7	7	3	6	8	7	7	<b>7</b>	<b>14</b>	
14 AOA95154-1	227	54	70	52	<b>101</b>	<b>4</b>	ab	45	173	23	23	81	59	75	92	<b>71</b>	<b>4</b>	ab
	43	11	40	9	<b>26</b>	<b>2</b>		11	37	5	5	8	15	16	14	<b>14</b>	<b>2</b>	
15 AOA95155-7	193	59	39	61	<b>88</b>	<b>7</b>	abc	35	81	49	65	100	37	44	62	<b>59</b>	<b>9</b>	abcde
	38	12	50	11	<b>28</b>	<b>1</b>		8	18	12	12	11	7	8	11	<b>11</b>	<b>8</b>	
16 ATX91137-1Ru	54	18	52	18	<b>35</b>	<b>20</b>	e	23	44	21	21	49	16	20	29	<b>28</b>	<b>19</b>	ij
	9	3	16	3	<b>8</b>	<b>21</b>		8	9	5	4	6	3	4	4	<b>6</b>	<b>16</b>	
17 CO94035-15RU	90	24	73	35	<b>55</b>	<b>14</b>	cde	16	60	42	32	52	46	41	55	<b>43</b>	<b>14</b>	efghij
	16	5	30	6	<b>14</b>	<b>13</b>		6	17	10	8	5	11	7	9	<b>9</b>	<b>12</b>	
18 CO95086-8RU	172	56	82	35	<b>86</b>	<b>9</b>	abc	31	43	69	71	98	24	70	32	<b>55</b>	<b>10</b>	bcdef
	28	10	40	6	<b>21</b>	<b>6</b>		12	12	23	18	11	5	13	5	<b>12</b>	<b>3</b>	
19 CO95172-3RU	170	59	88	79	<b>99</b>	<b>6</b>	ab	59	103	50	48	136	39	78	79	<b>74</b>	<b>2</b>	a
	25	9	42	11	<b>22</b>	<b>4</b>		14	20	10	8	12	8	12	12	<b>12</b>	<b>3</b>	
20 MWTX2609-2Ru	162	40	69	54	<b>81</b>	<b>11</b>	abc	31	52	34	35	88	33	57	24	<b>44</b>	<b>13</b>	defghi
	22	5	16	7	<b>12</b>	<b>14</b>		9	9	6	4	7	6	8	3	<b>6</b>	<b>16</b>	
21 PA97B3-2	204	59	105	64	<b>108</b>	<b>1</b>	a	45	-	145	94	124	70	99	66	<b>92</b>	<b>1</b>	
	35	11	34	10	<b>23</b>	<b>3</b>		11	-	37	21	17	17	23	10	<b>19</b>	<b>1</b>	
22 TXA549-1Ru	188	37	93	91	<b>102</b>	<b>2</b>	ab	66	102	57	54	155	29	47	56	<b>71</b>	<b>4</b>	ab
	27	5	28	12	<b>18</b>	<b>9</b>		14	19	12	9	13	5	7	6	<b>11</b>	<b>8</b>	
<b>Location Means</b>	128	40	67	49	<b>71</b>			42	59	52	39	85	35	51	53	<b>53</b>		
	21	7	28	8	<b>16</b>			11	13	12	7	8	7	9	8	<b>9</b>		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.



TABLE 7: 2005 Western Regional Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No. Clone	Specific Gravity - Early Harvest					Specific Gravity - Late Harvest												
	OR		TX	WA	Entry	CA	CO	ID		OR	WA	Entry						
	HRM	MAL	SPR	PAS	Mean/Rank	TUL	SLV	AB	KIM	HRM	KLM	MAL	OTH	Mean/Rank				
1 RANGER R.	1.069	1.084	1.070	1.076	<b>1.075</b>	<b>8</b>	cde	1.080	1.097	1.084	1.091	1.077	1.089	1.094	1.084	<b>1.087</b>	<b>5</b>	b
2 R. BURBANK	1.072	1.078	1.066	1.078	<b>1.074</b>	<b>13</b>	cde	1.079	1.092	1.073	1.089	1.075	1.082	1.085	1.076	<b>1.081</b>	<b>13</b>	d
3 R. NORKOTAH	1.069	1.076	1.062	1.067	<b>1.068</b>	<b>19</b>	gh	1.064	1.082	1.072	1.079	1.065	1.072	1.080	1.068	<b>1.073</b>	<b>20</b>	f
4 SHEPODY	1.073	1.083	1.070	1.074	<b>1.075</b>	<b>8</b>	cde	-	1.093	-	-	-	-	1.096	-	-		
5 A92030-5	1.079	1.091	1.075	1.076	<b>1.080</b>	<b>1</b>	a	1.072	1.097	1.082	1.100	1.082	1.088	1.094	1.083	<b>1.087</b>	<b>5</b>	b
6 A92294-6	1.078	1.091	1.072	1.079	<b>1.080</b>	<b>1</b>	a	1.077	1.103	1.096	1.101	1.089	1.090	1.107	1.089	<b>1.094</b>	<b>1</b>	a
7 A93157-6LS	1.078	1.087	1.078	1.076	<b>1.080</b>	<b>1</b>	a	1.067	1.103	1.087	1.095	1.079	1.090	1.098	1.081	<b>1.088</b>	<b>2</b>	b
8 A95109-1	1.072	1.084	1.064	1.070	<b>1.072</b>	<b>15</b>	defg	1.073	1.090	1.077	1.084	1.077	1.085	1.097	1.075	<b>1.082</b>	<b>11</b>	cd
9 A95409-1	1.070	1.088	1.068	1.077	<b>1.076</b>	<b>6</b>	abcd	1.083	1.099	1.081	1.100	1.080	1.088	1.096	1.077	<b>1.088</b>	<b>2</b>	b
10 A96095-3	1.069	1.075	1.064	1.065	<b>1.068</b>	<b>19</b>	gh	1.066	1.085	1.071	1.083	1.066	1.080	1.083	1.072	<b>1.076</b>	<b>19</b>	ef
11 A96104-2	1.077	1.080	1.059	1.073	<b>1.072</b>	<b>15</b>	defg	1.067	1.093	1.081	1.082	1.076	1.077	1.085	1.078	<b>1.080</b>	<b>16</b>	d
12 AO96160-3	1.074	1.090	1.078	1.076	<b>1.079</b>	<b>4</b>	ab	1.072	1.101	1.082	1.096	1.086	1.085	1.103	1.080	<b>1.088</b>	<b>2</b>	b
13 AO96164-1	1.066	1.089	1.070	1.074	<b>1.075</b>	<b>8</b>	cde	1.050	1.090	1.077	1.089	1.080	1.079	1.100	1.076	<b>1.080</b>	<b>16</b>	d
14 AOA95154-1	1.073	1.086	1.071	1.067	<b>1.074</b>	<b>13</b>	cde	1.073	1.096	1.079	1.085	1.083	1.084	1.100	1.086	<b>1.086</b>	<b>8</b>	bc
15 AOA95155-7	1.062	1.075	1.065	1.059	<b>1.065</b>	<b>22</b>	h	1.063	1.089	1.081	1.089	1.071	1.084	1.090	1.080	<b>1.081</b>	<b>13</b>	d
16 ATX91137-1Ru	1.062	1.075	1.062	1.065	<b>1.066</b>	<b>21</b>	h	1.060	1.085	1.071	1.078	1.060	1.076	1.084	1.061	<b>1.072</b>	<b>21</b>	f
17 CO94035-15RU	1.068	1.077	1.064	1.066	<b>1.069</b>	<b>18</b>	fgh	1.072	1.089	1.076	1.084	1.074	1.082	1.083	1.074	<b>1.079</b>	<b>18</b>	de
18 CO95086-8RU	1.078	1.085	1.068	1.067	<b>1.075</b>	<b>8</b>	cde	1.074	1.090	1.077	1.090	1.078	1.076	1.097	1.079	<b>1.083</b>	<b>10</b>	cd
19 CO95172-3RU	1.074	1.083	1.070	1.073	<b>1.075</b>	<b>8</b>	cde	1.072	1.096	1.084	1.093	1.075	1.089	1.102	1.075	<b>1.086</b>	<b>8</b>	bc
20 MWTX2609-2Ru	1.071	1.080	1.066	1.067	<b>1.071</b>	<b>17</b>	efg	1.073	1.093	1.075	1.084	1.072	1.085	1.089	1.073	<b>1.081</b>	<b>13</b>	d
21 PA97B3-2	1.075	1.089	1.071	1.075	<b>1.077</b>	<b>5</b>	abc	1.077	-	1.088	1.102	1.076	1.084	1.098	1.081	<b>1.087</b>	<b>5</b>	
22 TXA549-1Ru	1.076	1.087	1.072	1.068	<b>1.076</b>	<b>6</b>	abcd	1.074	1.098	1.082	1.090	1.067	1.083	1.098	1.068	<b>1.082</b>	<b>11</b>	cd
<b>Location Means</b>	1.072	1.083	1.068	1.071	<b>1.074</b>			1.071	1.093	1.080	1.090	1.076	1.083	1.094	1.077	<b>1.083</b>		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.

**TABLE 8: 2005 Western Regional Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE**

No. Clone	<u>Average Tuber Size (oz)</u>										<u>Tuber Shape (1-5 length/width ratio: 1=round, 5=long)</u>													
	Early Trial					Late Trial					Early Trial					Late Trial								
	OR	TX	WA	Mean		CA	ID	OR	WA	Mean	OR	TX	WA	Mean		CA	CO	ID	OR	WA	Mean			
	HRM	SPR	PAS		TUL	AB	KIM	HRM	OTH		HRM	MAL	SPR	PAS		TUL	SLV	AB	KIM	HRM	KLM	MAL	OTH	
1 RANGER R.	5.4	5.5	7.4	<b>6.1</b>	9.1	6.9	8.5	9.1	9.7	<b>8.7</b>	4.1	3.5	4.0	3.8	<b>3.9</b>	5.0	5.0	4.8	5.0	4.1	5.0	3.8	4.3	<b>4.6</b>
2 R. BURBANK	3.7	4.6	6.0	<b>4.8</b>	8.8	4.3	8.4	6.5	7.7	<b>7.1</b>	3.7	4.0	3.6	4.0	<b>3.8</b>	4.3	5.0	3.8	4.5	3.4	5.0	4.3	3.8	<b>4.3</b>
3 R. NORKOTAH	4.7	5.9	6.8	<b>5.8</b>	8.6	4.6	7.9	5.9	8.1	<b>7.0</b>	4.5	3.0	4.0	4.0	<b>3.9</b>	5.0	5.0	3.8	4.0	4.4	4.4	3.5	4.0	<b>4.3</b>
4 SHEPODY	6.9	4.7	11.8	<b>7.8</b>	-	-	-	-	-	-	4.0	2.5	3.8	3.0	<b>3.3</b>	-	4.0	-	-	-	-	3.3	-	-
5 A92030-5	6.6	6.2	10.3	<b>7.7</b>	10.7	6.9	10.0	8.4	8.1	<b>8.8</b>	3.7	2.8	4.3	3.3	<b>3.5</b>	4.0	4.0	3.3	3.3	3.5	3.6	3.3	3.5	<b>3.6</b>
6 A92294-6	4.1	4.4	6.1	<b>4.8</b>	7.3	6.8	7.9	7.1	7.2	<b>7.3</b>	3.4	3.0	4.4	3.3	<b>3.5</b>	3.3	5.0	5.0	5.0	3.6	3.4	3.3	3.8	<b>4.0</b>
7 A93157-6LS	5.2	4.9	8.4	<b>6.2</b>	9.9	7.0	8.3	8.7	8.0	<b>8.4</b>	3.9	2.5	3.9	3.3	<b>3.4</b>	4.0	5.0	3.5	4.3	4.0	4.6	3.3	2.7	<b>3.9</b>
8 A95109-1	6.7	5.3	9.6	<b>7.2</b>	8.5	9.4	9.8	11.4	9.6	<b>9.7</b>	3.6	2.8	3.8	4.0	<b>3.5</b>	4.0	5.0	4.0	3.8	4.2	3.8	3.0	3.0	<b>3.9</b>
9 A95409-1	6.6	6.0	8.7	<b>7.1</b>	8.8	8.2	10.4	11.6	11.4	<b>10.1</b>	3.7	2.8	4.4	2.8	<b>3.4</b>	4.3	5.0	3.8	4.0	3.6	4.0	3.5	3.0	<b>3.9</b>
10 A96095-3	6.8	7.2	11.8	<b>8.6</b>	10.4	7.4	8.9	10.0	12.0	<b>9.7</b>	3.6	3.5	4.9	3.8	<b>3.9</b>	3.8	4.0	3.8	4.0	3.9	4.2	4.0	3.0	<b>3.8</b>
11 A96104-2	4.4	3.9	6.9	<b>5.1</b>	7.9	6.7	7.6	7.0	7.5	<b>7.3</b>	3.3	2.3	3.9	3.3	<b>3.2</b>	4.3	5.0	3.8	4.3	3.1	4.6	3.0	2.8	<b>3.9</b>
12 AO96160-3	4.6	3.8	7.1	<b>5.2</b>	7.4	6.5	6.9	9.5	5.9	<b>7.2</b>	4.2	2.5	3.6	4.0	<b>3.6</b>	4.0	5.0	4.0	3.8	3.7	4.6	3.0	4.0	<b>4.0</b>
13 AO96164-1	6.5	5.5	8.9	<b>7.0</b>	7.7	7.4	9.7	9.4	8.4	<b>8.5</b>	3.4	2.5	4.1	4.0	<b>3.5</b>	4.5	5.0	4.8	5.0	3.1	4.4	3.0	4.0	<b>4.2</b>
14 AOA95154-1	3.7	4.3	6.9	<b>5.0</b>	9.0	9.6	9.8	7.2	6.1	<b>8.3</b>	3.7	3.0	3.5	4.0	<b>3.6</b>	4.5	5.0	3.8	4.0	3.9	3.0	3.0	4.0	<b>3.9</b>
15 AOA95155-7	3.7	3.5	6.2	<b>4.5</b>	8.1	6.3	6.3	7.0	7.5	<b>7.0</b>	4.4	3.0	3.5	4.0	<b>3.7</b>	4.0	5.0	3.8	3.3	4.2	3.6	3.3	3.0	<b>3.8</b>
16 ATX91137-1Ru	6.2	6.1	11.0	<b>7.8</b>	6.4	8.1	9.9	8.3	9.2	<b>8.4</b>	4.5	3.0	3.6	4.0	<b>3.8</b>	4.3	4.0	3.8	3.5	4.0	4.0	3.0	4.0	<b>3.8</b>
17 CO94035-15RU	5.5	4.5	8.6	<b>6.2</b>	9.2	6.7	7.7	9.5	7.6	<b>8.1</b>	3.5	3.0	4.0	3.3	<b>3.5</b>	4.3	4.0	3.8	4.0	3.1	5.0	3.0	2.0	<b>3.7</b>
18 CO95086-8RU	4.4	5.0	7.3	<b>5.6</b>	6.0	5.0	5.4	6.7	8.2	<b>6.3</b>	4.1	2.8	3.8	4.0	<b>3.7</b>	3.0	4.0	3.5	3.3	4.1	4.6	3.0	3.0	<b>3.6</b>
19 CO95172-3RU	4.5	3.5	6.8	<b>4.9</b>	8.3	6.4	7.6	6.8	6.8	<b>7.2</b>	4.0	3.0	3.8	3.8	<b>3.6</b>	4.3	5.0	3.8	4.3	4.0	4.2	3.0	3.0	<b>4.0</b>
20 MWTX2609-2Ru	4.9	6.1	7.9	<b>6.3</b>	6.6	7.4	9.6	8.5	10.9	<b>8.6</b>	4.2	3.3	4.5	3.5	<b>3.9</b>	3.0	4.0	4.0	4.8	3.6	4.0	3.8	3.0	<b>3.8</b>
21 PA97B3-2	4.0	4.4	6.8	<b>5.1</b>	8.4	4.0	5.1	5.3	7.4	<b>6.0</b>	3.4	2.8	3.8	4.0	<b>3.5</b>	4.3	-	3.0	3.0	3.3	3.2	3.0	3.3	<b>3.3</b>
22 TXA549-1Ru	4.5	5.5	6.5	<b>5.5</b>	9.6	6.8	8.8	6.8	8.9	<b>8.2</b>	3.5	2.3	3.4	2.5	<b>2.9</b>	3.5	4.0	3.0	2.8	3.9	3.0	3.0	3.0	<b>3.3</b>
<b>Location Means</b>	<b>5.2</b>	<b>5.0</b>	<b>8.1</b>	<b>6.1</b>	<b>8.4</b>	<b>6.8</b>	<b>8.3</b>	<b>8.1</b>	<b>8.4</b>	<b>8.0</b>	<b>3.8</b>	<b>2.9</b>	<b>3.9</b>	<b>3.6</b>	<b>3.6</b>	<b>4.1</b>	<b>4.6</b>	<b>3.9</b>	<b>4.0</b>	<b>3.7</b>	<b>4.1</b>	<b>3.3</b>	<b>3.3</b>	<b>3.9</b>

**TABLE 9: 2005 Western Regional Potato Variety Trial - EXTERNAL DEFECTS MEANS OF LOCATIONS - GROWTH CRACKS, SECOND GROWTH, SHATTER BRUISE, AND SCAB<sup>1</sup>**

No. Clone	Growth Cracks		Second Growth		Shatter Bruise			Scab	
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Ab <sup>2</sup>	Early Trial	Late Trial
1 RANGER R.	5.0	4.5	4.8	4.9	4.8	4.2 MAL 2.8	2.9	4.9	4.8
2 R. BURBANK	4.0 PAS 2.5	3.7 OTH 1.0	4.0	4.3 KIM 3.3	4.9	4.3	2.8	5.0	5.0
3 R. NORKOTAH	4.8	4.9	4.8	4.9	4.8	4.9	3.1	5.0	5.0
4 SHEPODY	5.0	-	4.9	-	4.8	-	-	4.5	5.0
5 A92030-5	4.4 PAS 2.5	5.0	4.8	4.9	4.6	3.6	3.0	5.0	4.9
6 A92294-6	4.5	4.3 OTH 2.5	4.8	4.5	4.8	4.3	2.7	4.6	4.5 AB 2.8
7 A93157-6LS	4.7	4.5	4.9	4.8	4.7 MAL 3.8	3.8	2.9	4.9	4.9
8 A95109-1	5.0	4.9	4.8	4.9	4.3 HRM 3.3	3.6	2.9	5.0	5.0
9 A95409-1	5.0	4.6	5.0	5.0	4.7	4.0	2.8	5.0	4.8
10 A96095-3	4.8	4.6	4.0	4.5	4.5	4.2 MAL 1.8	2.9	4.8	4.8
11 A96104-2	5.0	4.9	4.9	5.0	4.8	3.8	2.4	5.0	4.9
12 AO96160-3	5.0	5.0	5.0	5.0	4.9	4.3	2.9	4.8	4.9
13 AO96164-1	4.9	4.9	5.0	4.7	4.7 HRM 3.8	3.7 HRM 2.8	2.7	5.0	4.9
14 AOA95154-1	5.0	5.0	4.6	4.8	4.9	4.4	2.8	4.8	5.0
15 AOA95155-7	4.6	4.8	4.7	5.0	4.6	4.0	2.7	4.9	5.0
16 ATX91137-1Ru	4.5	4.8	4.6	5.0	4.8	3.7	2.9	5.0	4.9
17 CO94035-15RU	5.0	4.9	4.9	5.0	4.4	3.2 HRM 2.8	2.9	5.0	4.9
18 CO95086-8RU	4.9	4.7	5.0	5.0	4.2	3.8	2.7	5.0	5.0
19 CO95172-3RU	5.0	5.0	5.0	4.9	4.6	3.5 MAL 2.8	2.8	4.9	5.0
20 MWTX2609-2Ru	4.8	5.0	4.6	4.9	4.9	4.3	2.9	5.0	4.8 AB 3.5
21 PA97B3-2	5.0	5.0	5.0	5.0	4.9	4.0	2.8	4.9	4.9
22 TXA549-1Ru	4.9	4.8	5.0	4.9	4.8	4.1	2.7	4.6	4.8
<b>Entry Means</b>	4.8	4.8	4.8	4.8	4.7	4.0	2.8	4.9	4.9

<sup>1</sup>All scores [1-5(none)]. Individual trial sites with relatively extreme values are listed to the right of the entry means.

<sup>2</sup>Aberdeen shatter scores reflect dropping from shatter chamber [1-5(none)].

**TABLE 10: 2005 Western Regional Potato Variety Trial - INTERNAL DEFECTS MEANS OF LOCATIONS - HOLLOW HEART/BROWN CENTER, INTER BROWN SPT, VASCULAR DISCOLORATION/NET NECROSIS, AND BLACKSPOT<sup>1</sup>**

No. Clone	Percent Hollow Heart Plus Brown Center		Percent Internal Brown Spot		Percent Net Necrosis/ Vascular Discoloration		Blackspot Bruise [1-5(none)]			% Bruise				
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	ID <sup>2</sup>	OTH-L <sup>3</sup>				
1 RANGER R.	0	0	2	1	4	SPR 13	1	4.2	PAS 3.0	4.1	2.0	3.0		
2 R. BURBANK	7	PAS 25 (23% BC)	2	3	6	HRM 34	2	0	5.0	4.4	2.6	4.0		
3 R. NORKOTAH	0	3	TUL 20	1	1		1	0	5.0	4.4	2.1	-		
4 SHEPODY	0	-		1	-		3	-	5.0	-	-	-		
5 A92030-5	1	11	KIM 26 KLM 38	4	0		0	1	5.0	3.7	OTH 2.0	2.2	2.0	
6 A92294-6	0	0		5	PAS 18	0	3	0	5.0	4.3	2.5	4.0		
7 A93157-6LS	0	4	KLM 18	2	0		0	0	4.6	3.5	OTH 2.0	1.9	2.0	
8 A95109-1	0	1		1	0		0	0	5.0	3.9	3.0	4.0		
9 A95409-1	0	1		4	PAS 15	0	0	0	4.6	3.5	2.5	3.0		
10 A96095-3	0	1		3	0		6	SPR 18	2	4.7	4.3	2.0	4.0	
11 A96104-2	0	3		0	0		1	1	5.0	4.6	3.0	4.0		
12 AO96160-3	0	0		1	0		1	1	HRM 5.0	5.0	3.7	OTH 2.0	3.0	2.0
13 AO96164-1	0	0		1	0		0	0	4.7	4.8	2.4	-		
14 AOA95154-1	0	1		1	4	HRM 26	0	1	5.0	4.6	2.3	4.0		
15 AOA95155-7	0	1		0	0		0	1	5.0	4.6	3.8	4.0		
16 ATX91137-1Ru	0	0		1	1		0	0	5.0	4.7	3.0	4.0		
17 CO94035-15RU	0	2	TUL 20	3	0		0	0	5.0	3.8	2.9	3.0		
18 CO95086-8RU	0	0		1	0		1	0	4.7	4.5	2.9	4.0		
19 CO95172-3RU	1	0		3	PAS 13	3	HRM 17	0	1	5.0	4.2	2.2	4.0	
20 MWTX2609-2Ru	0	0		0	0		1	1	4.7	3.9	2.2	4.0		
21 PA97B3-2	0	0		0	0		2	0	4.6	3.8	2.1	3.0		
22 TXA549-1Ru	0	3	KLM 16	1	4	HRM 27	2	1	5.0	4.5	1.7	5.0		
<b>Entry Means</b>	0	2		2	1		1	0	4.8	4.2	2.5	3.5		

<sup>1</sup>Individual trial sites with relatively extreme values are listed right of the entry means.

<sup>2</sup>Aberdeen and Kimberly Idaho, blackspot scores reflect abrasive peel test [1-5(none)].

<sup>3</sup>Controlled Blackspot study conducted in Othello; Samples from Idaho, Oregon, Washington.

TABLE 11: 2005 Western Regional Potato Variety Trial - FRENCH FRY COLOR (00-4.0(darkest)) AND PERCENT SUGAR ENDS

No. Clone	Field Fry						Fry 45						Fry 40				% Sugar Ends									
	CO		OR		WA		Entry Mean	CO		ID		OR		Entry Mean	WA		Entry Mean	ID		OR		Entry Mean				
	SLV	HRM	MAL	PAS	OTH	SLV		AB	KIM	HRM	MAL	KLM	OTH		AB	KIM		OTH	AB	KIM	HRM		KL	M	MAL	
L	E	E	E	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L				
1 RANGER R.	2.0	0.6	0.0	0.0	0.0	<b>0.5</b>	3.0	0.9	1.3	1.2	0.0	2.0	3.0	<b>1.6</b>	3.3	3.4	4.0	<b>3.4</b>	17	17	0	18	0	0	3	<b>8</b>
2 R. BURBANK	0.0	0.7	0.0	0.0	0.0	<b>0.1</b>	2.0	0.9	1.4	1.3	0.5	2.0	3.0	<b>1.6</b>	3.8	3.8	4.0	<b>3.8</b>	13	26	0	8	0	0	0	<b>7</b>
3 R. NORKOTAH	2.0	0.7	0.0	0.0	.	<b>0.7</b>	3.0	1.2	2.2	1.1	0.5	3.0	.	<b>1.8</b>	4.0	4.0	.	<b>4.0</b>	31	9	0	8	0	0	5	<b>8</b>
4 SHEPODY	1.0	0.0	0.0	0.0	-	<b>0.3</b>	3.0	-	-	-	0.0	-	-	-	-	-	-	-	-	-	3	-	-	0	0	<b>1</b>
5 A92030-5	2.0	1.0	0.0	0.0	0.0	<b>0.6</b>	3.0	0.9	2.4	0.2	0.0	2.5	1.0	<b>1.4</b>	3.4	4.0	2.0	<b>3.7</b>	13	4	0	0	0	0	0	<b>2</b>
6 A92294-6	1.0	0.0	0.0	0.0	0.0	<b>0.2</b>	2.0	0.5	1.0	0.5	0.0	1.0	3.0	<b>1.1</b>	2.5	2.9	3.0	<b>2.7</b>	9	13	0	3	0	0	0	<b>4</b>
7 A93157-6LS	0.0	0.5	0.0	0.0	0.0	<b>0.1</b>	1.0	0.4	0.5	0.5	0.0	1.0	0.0	<b>0.5</b>	0.9	2.1	1.0	<b>1.5</b>	4	0	0	0	0	0	0	<b>1</b>
8 A95109-1	2.0	0.8	0.0	0.0	0.0	<b>0.6</b>	3.0	1.2	2.1	1.4	0.0	1.5	2.0	<b>1.6</b>	3.9	4.0	4.0	<b>4.0</b>	13	9	0	8	0	0	0	<b>4</b>
9 A95409-1	2.0	0.5	0.0	0.0	0.0	<b>0.5</b>	2.0	0.9	1.2	1.2	0.1	1.5	3.0	<b>1.4</b>	3.5	3.6	4.0	<b>3.6</b>	21	4	0	3	0	0	0	<b>4</b>
10 A96095-3	1.0	0.7	0.0	0.0	0.0	<b>0.3</b>	2.0	0.6	1.1	1.0	0.0	2.5	1.0	<b>1.2</b>	3.8	3.3	3.0	<b>3.6</b>	17	19	0	13	0	0	0	<b>7</b>
11 A96104-2	2.0	0.3	0.0	0.0	0.0	<b>0.5</b>	2.0	0.5	1.8	0.5	0.0	1.5	2.0	<b>1.2</b>	3.8	3.9	4.0	<b>3.9</b>	4	15	0	0	0	0	0	<b>3</b>
12 AO96160-3	1.0	0.1	0.0	0.0	0.0	<b>0.2</b>	2.0	0.4	0.9	0.3	0.0	1.0	1.0	<b>0.8</b>	3.1	3.4	3.0	<b>3.3</b>	13	13	0	0	0	0	0	<b>4</b>
13 AO96164-1	2.0	0.5	0.0	0.0	0.0	<b>0.5</b>	2.0	0.5	0.9	0.1	0.0	1.0	0.0	<b>0.6</b>	2.1	2.8	1.0	<b>2.5</b>	36	4	0	0	0	0	0	<b>6</b>
14 AOA95154-1	1.0	0.0	0.0	0.0	0.0	<b>0.2</b>	1.0	0.8	2.5	0.0	0.0	1.0	1.0	<b>0.9</b>	3.6	4.0	2.0	<b>3.8</b>	0	4	0	0	0	0	0	<b>1</b>
15 AOA95155-7	1.0	0.0	0.0	0.0	0.0	<b>0.2</b>	1.0	0.4	0.7	0.8	0.0	0.5	1.0	<b>0.6</b>	2.3	3.4	3.0	<b>2.9</b>	6	13	0	35	0	0	0	<b>8</b>
16 ATX91137-1Ru	3.0	1.1	0.0	0.0	0.0	<b>0.8</b>	3.0	0.9	1.6	1.4	0.0	3.0	3.0	<b>1.8</b>	3.8	3.9	4.0	<b>3.9</b>	13	13	0	28	0	0	0	<b>8</b>
17 CO94035-15RU	1.0	0.0	0.0	0.0	0.0	<b>0.2</b>	2.0	0.6	0.8	0.6	0.0	1.5	2.0	<b>1.1</b>	3.9	4.0	3.0	<b>4.0</b>	13	9	0	3	0	0	0	<b>4</b>
18 CO95086-8RU	3.0	0.0	0.0	0.0	0.0	<b>0.6</b>	1.0	0.7	0.6	0.8	0.0	1.0	1.0	<b>0.7</b>	3.2	3.1	3.0	<b>3.2</b>	9	9	0	20	0	0	0	<b>5</b>
19 CO95172-3RU	2.0	1.2	0.0	0.0	0.0	<b>0.6</b>	1.0	0.6	1.6	1.9	0.1	2.0	4.0	<b>1.6</b>	3.6	3.5	4.0	<b>3.6</b>	21	0	3	40	0	0	0	<b>9</b>
20 MWTX2609-2Ru	4.0	0.8	0.0	0.0	0.0	<b>1.0</b>	3.0	1.8	3.3	2.1	0.5	2.5	3.0	<b>2.3</b>	4.0	4.0	4.0	<b>4.0</b>	17	27	0	28	0	0	0	<b>10</b>
21 PA97B3-2	-	0.0	0.0	0.0	0.0	<b>0.0</b>	-	0.4	0.6	0.3	0.0	1.0	1.0	<b>0.6</b>	2.9	3.2	2.0	<b>3.1</b>	0	13	0	3	0	0	0	<b>2</b>
22 TXA549-1Ru	1.0	0.7	0.0	0.0	0.0	<b>0.3</b>	2.0	0.5	0.8	1.4	0.0	1.5	1.0	<b>1.0</b>	3.4	3.2	3.0	<b>3.3</b>	21	9	0	25	0	0	0	<b>8</b>
<b>Location Means</b>	<b>1.6</b>	<b>0.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.4</b>	<b>2.1</b>	<b>0.7</b>	<b>1.4</b>	<b>0.9</b>	<b>0.1</b>	<b>1.6</b>	<b>1.8</b>	<b>1.2</b>	<b>3.3</b>	<b>3.5</b>	<b>3.1</b>	<b>3.4</b>	<b>14</b>	<b>11</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>

Storage protocol prior to frying**Aberdeen** - 4 weeks from 55F to 45F, 5 weeks from 55F to 40F, and 7 weeks @ 40F and 45F.**Hermiston** - 4 weeks from 62F to 45F, and 6 weeks @45F.**Kimberly** - 4 weeks from 55F to 45F, 5 weeks from 55F to 40F, and 7 weeks @ 40F and 45F.**Klamath** - 2 weeks from 55F to 45F, and 2 weeks @45F.**Malheur (Late)** - 1 week from 52F to 45F, and ~5.5 weeks @ 45F.**Othello** - 2 weeks from 48F to 40F and 45 F, and 8 weeks @ 40F and 45F.**San Luis Valley** - 3 weeks from 55F to 45F, and 9 weeks @ 45F.\* Comprehensive post harvest evaluations of entries can be found in the 2005 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washington State University. Contact: Rick Knowles. [www.potatoes.wsu.edu](http://www.potatoes.wsu.edu)

TABLE 12: 2005 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No.	Clone	Vert. Wilt/ Early Dying		Early Blight <sup>1</sup>	Late Blight Corvallis <sup>3</sup>		Common Scab <sup>1</sup>		% Net Necrosis		Prosser		Fusarium Dry Rot (0-5)		Erwinia Soft Rot <sup>1</sup>	Metribuzin Reaction <sup>6</sup>
		AB <sup>1</sup>	HRM <sup>2</sup>		Foliar	Tuber	AB	SV	AB <sup>1</sup>	HRM <sup>2</sup>	% Corky Rngspt <sup>4</sup>	Root- knot <sup>5</sup>	F(sam)	F(sol)	(0-5)	AB
1	RANGER R.	3.5	4.0	2.8	8.0	83	44	13	3	23		S	2.8	3.2	2.5	R
2	R. BURBANK	6.5	8.4	3.0	7.5	47	4	0	25	28	-	-	4.9	3.8	3.0	VR
3	R. NORKOTAH	8.5	9.0	5.0	8.5	80	12	27	7	-	20	S	2.0	2.5	4.0	R
4	SHEPODY	6.2	-	5.5	-	-	51	66	4	-	59	S	2.6	4.0	2.0	S
5	A92030-5	6.3	8.0	4.2	8.8	53	5	2	19	13	30	S	3.3	3.1	3.1	VR
6	A92294-6	2.2	3.3	2.2	7.3	3	37	44	7	20	13	S	1.5	3.5	3.3	VR
7	A93157-6LS	2.5	4.5	1.8	8.0	67	8	0	8	15	40	S	4.4	3.2	1.7	MR
8	A95109-1	6.8	6.1	3.0	7.5	33	0	0	.	13	38	S	1.5	1.9	3.3	R
9	A95409-1	5.0	6.3	3.0	8.0	90	17	9	0	5	33	S	3.7	3.7	2.9	VR
10	A96095-3	5.7	6.8	3.5	8.8	13	0	4	2	15	85	S	4.3	2.5	3.8	R
11	A96104-2	4.4	5.0	2.8	8.0	43	0	0	0	10	3	S	3.9	2.3	2.5	VR
12	AO96160-3	5.0	6.3	3.8	7.0	34	8	0	4	5	23	S	3.6	1.5	2.5	S
13	AO96164-1	5.7	7.0	3.8	7.5	18	17	0	9	3	33	S	4.3	3.9	3.7	VR
14	AOA95154-1	2.7	3.0	2.8	8.3	8	10	0	0	8	20	S	3.8	2.8	4.5	R
15	AOA95155-7	6.3	2.0	2.5	7.8	8	6	3	6	3	5	S	2.2	2.7	2.9	VR
16	ATX91137-1Ru	5.8	7.4	5.7	8.5	36	13	0	17	18	3	S	3.0	2.5	3.3	VR
17	CO94035-15RU	3.2	4.5	3.2	7.5	31	19	0	2	0	85	S	3.3	3.3	3.3	VR
18	CO95086-8RU	3.8	5.0	3.8	9.0	63	3	0	.	0	13	S	4.1	3.7	3.6	S
19	CO95172-3RU	7.3	5.8	5.8	7.8	60	0	0	.	5	8	S	2.6	3.1	3.3	VR
20	MWTX2609-2Ru	4.8	4.5	3.0	7.8	13	12	3	.	73	73	S	3.1	2.1	2.5	VR
21	PA97B3-2	6.2	6.1	4.7	9.0	15	4	0	0	3	0	S	1.6	3.3	3.7	MS
22	TXA549-1Ru	5.7	6.3	3.3	7.5	45	50	3	.	50	0	S	2.3	3.1	4.3	VR
<b>Entry Means</b>		5.2	5.7	3.6	8.0	40	14	8	7	15	29		3.1	3.0	3.2	
<b>LSD (.05)</b>		<b>1.7</b>		<b>2.5</b>					<b>9</b>	<b>15</b>			<b>0.7</b>	<b>0.7</b>	<b>2.3</b>	

<sup>1</sup> Evaluations made at Aberdeen and Swan Valley, Idaho by Jonathan Whitworth; scale as indicated with highest number being most severe. Net necrosis % represents the number of tubers with a 3 rating (0-5 scale) or higher, divided by the total number of tubers examined.

<sup>2</sup> Evaluations made at Hermiston, Oregon by Dan Hane; scale as indicated with highest number being most severe.

<sup>3</sup> Evaluations made at Corvallis, Oregon by Al Mosley and Solomon Yilma; scale as indicated with highest number being most severe.

<sup>4</sup> Evaluations made at Prosser, Washington by Chuck Brown

<sup>5</sup> Evaluations made at Prosser, Washington by Chuck Brown: R=resistant, MR=moderately resistant, MS=moderately susceptible, S=suceptible.

<sup>6</sup> Evaluations made at Aberdeen, Idaho by Steve Love and Tom Salaiz: R=resistant, MR=moderately resistant, MS=moderately susceptible, S=suceptible.

**TABLE 13: 2005 Western Regional Potato Variety Trial - SOLIDS, DEXTROSE, SUCROSE, PROTEIN, VITAMIN C,  
AND GLYCOALKALOIDS - ABERDEEN**

No. Clone	Solids Oven Dry %	Sugars		Protein (%DWB) <sup>1</sup>	Vitamin C (mg/100g FWB) <sup>1</sup>	Glycoalkaloids <sup>2</sup> (mg/100g FWB) <sup>1</sup>
		Dextrose (%FWB) <sup>1</sup>	Sucrose (%FWB) <sup>1</sup>			
1 RANGER RUSSET	21.5	0.03	0.21	5.8	36.1	3.6
2 RUSSET BURBANK	18.0	0.03	0.18	4.7	25.5	3.2
3 RUSSET NORKOTAH	19.2	0.05	0.14	4.8	25.5	1.4
5 A92030-5	21.9	0.05	0.17	6.4	35.0	1.4
6 A92294-6	23.0	0.01	0.22	7.1	31.3	1.6
7 A93157-6LS	22.1	0.01	0.23	6.1	27.3	3.2
8 A95109-1	19.6	0.05	0.17	6.5	27.2	0.7
9 A95409-1	20.2	0.04	0.21	6.1	27.1	1.6
10 A96095-3	19.1	0.04	0.14	6.6	27.6	7.6
11 A96104-2	21.2	0.02	0.23	6.2	26.4	3.9
12 AO96160-3	21.0	0.02	0.13	6.7	26.1	1.8
13 AO96164-1	19.9	0.04	0.16	5.9	33.8	1.2
14 AOA95154-1	19.6	0.05	0.20	6.5	28.5	0.7
15 AOA95155-7	20.1	0.01	0.17	7.8	27.7	1.0
16 ATX91137-1RU	19.1	0.03	0.19	5.6	27.2	1.0
17 CO94035-15RU	21.5	0.01	0.19	6.1	28.8	0.8
18 CO95086-8RU	20.6	0.02	0.14	5.9	31.0	2.1
19 CO95172-3RU	20.3	0.03	0.19	6.8	35.6	1.5
20 MWTX2609-2RU	19.4	0.05	0.16	5.7	25.4	2.2
21 PA97B3-2	21.4	0.03	0.16	6.0	19.5	4.1
22 TXA549-1RU	21.2	0.02	0.16	5.4	23.0	1.9
<b>Entry Means</b>	20.5	0.03	0.18	6.1	28.4	2.2

<sup>1</sup> DWB = Dry Weight Basis; FWB = Fresh Weight Basis

<sup>2</sup> Glycoalkaloids: The 2005 Lenape check from Aberdeen was 22.8 mg/100g

TABLE 14: 2005 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Process										Process WA <sup>1</sup> 3 State Mean	Fresh											
	CO		ID		OR			WA		Entry Mean/Rank		CA	CO	ID		OR		TX	WA		Entry Mean/Rank		
	SLV	AB	KIM	HRM	KLM	PAS	OTH	TUL	SLV			AB	KIM	HRM	KLM	SPR	PAS	OTH					
	L	L	L					E	L			L	E			L			E	E		L	E
1 RANGER R.	4.0	3.8	3.5	4.0	3.5	3.8	3.6	3.7	<b>3.7</b>	<b>2</b>	4.0	3.3	3.0	3.3	3.5	3.5	2.5	2.5	2.8	1.9	3.4	<b>3.0</b>	<b>12</b>
2 R. BURBANK	4.0	3.0	3.3	2.0	1.5	3.8	2.1	1.1	<b>2.6</b>	<b>14</b>	2.0	1.9	5.0	3.3	2.0	1.0	1.0	2.8	2.1	1.4	1.0	<b>2.2</b>	<b>21</b>
3 R. NORKOTAH	1.0	2.0	2.3	3.0	2.0	2.0	1.7	.	<b>2.0</b>	<b>21</b>	-	2.6	1.0	2.8	4.3	3.5	3.0	4.3	3.4	2.9	3.2	<b>3.1</b>	<b>6</b>
4 SHEPODY	4.0	-	-	4.0	-	-	4.0	-	-	.	-	-	3.0	-	-	3.0	-	-	2.2	0.9	-	<b>2.3</b>	<b>20</b>
5 A92030-5	4.0	3.6	2.5	3.5	4.5	1.8	2.6	2.5	<b>3.1</b>	<b>8</b>	4.0	3.1	3.0	3.3	3.3	3.0	4.0	2.8	3.0	2.1	2.9	<b>3.1</b>	<b>6</b>
6 A92294-6	4.0	3.3	3.0	1.0	3.0	3.8	2.8	4.2	<b>3.1</b>	<b>8</b>	4.0	3.5	5.0	1.8	1.8	1.0	1.0	2.8	2.0	1.2	1.6	<b>2.2</b>	<b>21</b>
7 A93157-6LS	4.0	4.5	4.5	4.0	4.5	3.5	3.5	4.4	<b>4.1</b>	<b>1</b>	5.0	4.8	5.0	4.0	3.8	4.0	3.5	3.3	3.2	3.1	3.7	<b>3.8</b>	<b>1</b>
8 A95109-1	4.0	3.8	3.0	3.5	3.0	4.0	4.3	2.5	<b>3.5</b>	<b>3</b>	3.0	3.6	3.0	4.3	4.5	3.5	2.0	3.8	3.0	4.9	4.6	<b>3.7</b>	<b>2</b>
9 A95409-1	3.0	4.0	4.0	4.0	3.0	3.0	3.8	3.3	<b>3.5</b>	<b>3</b>	3.0	3.4	5.0	3.3	4.8	3.5	2.0	3.0	3.0	3.8	4.1	<b>3.6</b>	<b>3</b>
10 A96095-3	4.0	3.2	3.3	4.0	2.0	2.5	2.8	2.4	<b>3.0</b>	<b>10</b>	3.0	3.0	5.0	3.0	2.8	3.0	2.0	2.5	2.7	1.6	2.0	<b>2.8</b>	<b>17</b>
11 A96104-2	5.0	4.0	3.5	2.0	2.0	3.5	3.4	2.3	<b>3.2</b>	<b>7</b>	3.0	4.4	5.0	4.0	3.5	2.0	1.0	4.0	1.9	3.1	2.1	<b>3.1</b>	<b>6</b>
12 AO96160-3	3.0	4.0	3.7	3.0	4.5	4.3	2.8	2.4	<b>3.5</b>	<b>3</b>	4.0	4.1	4.0	3.3	4.0	3.0	4.0	4.0	2.6	2.3	2.3	<b>3.4</b>	<b>5</b>
13 AO96164-1	4.0	3.6	3.8	2.0	2.5	4.0	4.2	1.9	<b>3.3</b>	<b>6</b>	5.0	4.3	5.0	2.8	3.5	2.0	1.0	3.3	2.8	3.1	3.7	<b>3.1</b>	<b>6</b>
14 AOA95154-1	2.0	3.5	3.2	1.0	1.0	3.5	3.0	3.6	<b>2.6</b>	<b>14</b>	4.0	4.5	3.0	4.0	4.0	1.0	1.0	3.0	2.7	2.3	3.2	<b>2.9</b>	<b>14</b>
15 AOA95155-7	3.0	3.5	3.7	1.0	1.0	4.5	1.2	2.1	<b>2.5</b>	<b>17</b>	4.0	4.4	4.0	4.3	3.5	1.0	3.0	3.8	2.2	1.4	3.1	<b>3.1</b>	<b>6</b>
16 ATX91137-1Ru	4.0	3.6	3.6	1.0	1.0	2.0	1.7	1.7	<b>2.3</b>	<b>19</b>	2.0	3.5	1.0	4.5	4.5	4.0	4.5	3.3	3.3	2.5	3.9	<b>3.5</b>	<b>4</b>
17 CO94035-15RU	1.0	3.4	3.0	3.0	2.0	2.3	1.4	2.6	<b>2.3</b>	<b>19</b>	4.0	2.9	3.0	3.8	4.0	3.0	1.0	2.5	2.6	2.4	2.8	<b>2.8</b>	<b>17</b>
18 CO95086-8RU	2.0	1.8	3.2	2.0	3.0	3.5	1.9	3.5	<b>2.6</b>	<b>14</b>	4.0	2.8	3.0	2.5	2.5	2.0	4.0	4.0	2.9	1.9	2.9	<b>2.9</b>	<b>14</b>
19 CO95172-3RU	4.0	3.8	3.4	1.0	1.0	3.3	3.3	2.0	<b>2.7</b>	<b>13</b>	3.0	3.6	5.0	3.8	3.5	2.0	1.0	3.5	1.9	2.9	2.6	<b>3.0</b>	<b>12</b>
20 MWTX2609-2Ru	5.0	2.5	2.0	3.0	1.0	3.0	3.7	1.8	<b>2.8</b>	<b>12</b>	2.0	3.0	1.0	2.5	2.3	2.0	4.0	3.3	2.7	4.8	3.7	<b>2.9</b>	<b>14</b>
21 PA97B3-2	-	2.3	3.0	2.0	1.0	3.0	3.7	2.4	<b>2.5</b>	<b>17</b>	4.0	3.8	-	2.8	3.5	1.0	1.0	2.8	3.1	2.6	2.9	<b>2.6</b>	<b>19</b>
22 TXA549-1Ru	4.0	3.2	3.5	3.0	1.0	2.5	3.8	2.3	<b>2.9</b>	<b>11</b>	3.0	4.1	5.0	3.0	3.8	2.0	1.0	2.3	3.3	2.1	4.9	<b>3.1</b>	<b>6</b>
<b>Location Means</b>	<b>3.5</b>	<b>3.4</b>	<b>3.3</b>	<b>2.6</b>	<b>2.3</b>	<b>3.2</b>	<b>3.0</b>	<b>2.6</b>	<b>2.9</b>		<b>3.5</b>	<b>3.6</b>	<b>3.7</b>	<b>3.4</b>	<b>3.5</b>	<b>2.5</b>	<b>2.3</b>	<b>3.2</b>	<b>2.7</b>	<b>2.5</b>	<b>3.1</b>	<b>3.0</b>	

<sup>1</sup> Score based upon Idaho, Oregon, and Washington samples evaluated postharvest at Washington State University. ([www.potatoes.wsu.edu](http://www.potatoes.wsu.edu))



TABLE 15: 2005 Western Regional Potato Variety Trial - ENTRY SUMMARY<sup>1</sup>

No.	Clone	Year in Trial	Use	Total Yield <sup>2</sup>	US#1's Yield <sup>2</sup>	% US#1's <sup>2</sup>	Tuber Size (oz)		Specific Gravity <sup>2</sup>	Fry 45 Color	%		Merit Score		Noted Weaknesses	Disposition 2006
							Early	Late			Cumulative Shrink <sup>3</sup>	Process	Fresh			
1	RANGER R.	-	Dual	631	510	81	6.1	8.7	1.087	1.6	7.8	3.7	3.0		Check	
2	R. BURBANK	-	Dual	606	359	60	4.8	7.1	1.081	1.6	8.7	2.6	2.2		Check	
3	R. NORKOTAH	-	Fresh	455	377	82	5.8	7.0	1.073	1.8	7.0	2.0	3.1		Check	
4	SHEPODY	-	Proc	524	384	70	7.8	-	1.075	-	-	-	2.3		Check	
5	A92030-5	3	Dual	503	434	86	7.7	8.8	1.087	1.4	-	3.1	3.1	HH, Shatter, Blkspt(late); Vert/ED, NN, Scab; GC(early&late)	3 years eval.	
6	A92294-6	3	Proc	698	508	73	4.8	7.3	1.094	1.1	10.0	3.1	2.2		3 years eval.	
7	A93157-6LS	3	Dual	638	544	85	6.2	8.4	1.088	0.5	9.4	4.1	3.8	Blackspot (late); Fusarium (sam)	3 years eval.	
8	A95109-1	2	Dual	603	540	89	7.2	9.7	1.082	1.6	10.6	3.5	3.7	Shatter	Return	
9	A95409-1	1	Dual	647	576	88	7.1	10.1	1.088	1.4	11.4	3.5	3.6	Blackspot (late); LB tuber; Fusarium (sol)	Return	
10	A96095-3	1	Dual	603	463	78	8.6	9.7	1.076	1.2	.	3.0	2.8	Low SG; 2nd Growth; Fusarium (sam)	Discard	
11	A96104-2	1	Dual	698	579	83	5.1	7.3	1.080	1.2	.	3.2	3.1		Return	
12	AO96160-3	2	Dual	599	512	85	5.2	7.2	1.088	0.8	.	3.5	3.4	Blackspot (late); Metribuzin susc.	Return	
13	AO96164-1	1	Dual	622	517	82	7.0	8.5	1.080	0.6	8.8	3.3	3.1	Fusarium (sam & sol)	Discard	
14	AOA95154-1	1	Dual	560	468	83	5.0	8.3	1.086	0.9	.	2.6	2.9	Erwinia	Return	
15	AOA95155-7	1	Dual	550	457	83	4.5	7.0	1.081	0.6	.	2.5	3.1	Small tuber size	Return	
16	ATX91137-1Ru	1	Dual	531	480	90	7.8	8.4	1.072	1.8	.	2.3	3.5	Low SG; Vert/ED (late); Net Necrosis	Discard	
17	CO94035-15RU	1	Dual	516	437	84	6.2	8.1	1.079	1.1	.	2.3	2.8	Shatter (late)	Return	
18	CO95086-8RU	1	Dual	476	396	83	5.6	6.3	1.083	0.7	.	2.6	2.9	Fusarium (sam & sol); Metribuzin susc.	Discard	
19	CO95172-3RU	1	Dual?	625	509	82	4.9	7.2	1.086	1.6	.	2.7	3.0	Shatter (late); EB; Vert/ED (early)	Return	
20	MWTX2609-2Ru	1	Dual	718	591	82	6.3	8.6	1.081	2.3	.	2.8	2.9	Dark fry 45F & sugar ends; Net Necrosis severe @ HRM	Return	
21	PA97B3-2	1	Dual	500	387	76	5.1	6.0	1.087	0.6	.	2.5	2.6		Discard	
22	TXA549-1Ru	1	Dual	679	562	83	5.5	8.2	1.082	1.0	.	2.9	3.1	Erwinia; Net Necrosis severe @ HRM	Return	
<b>Entry Means</b>				590	481	81	6.1	8.0	1.082	1.2	9.2	2.9	3.0			

<sup>1</sup> Numeric values represent means across all trial locations.

<sup>2</sup> Data shown from late trial results, unless the entry was in the early trial only (Shepody).

<sup>3</sup> 2004 entries at Tulelake, CA; Evaluated at 154 days after harvest.

TABLE 16: 2005 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES - LATE TRIAL LOCATION MEANS

Clone	2003						2004						2005					
	Total Yield <sup>1</sup> &(rank)	US #1 Yield <sup>1</sup> & %	SG	Fry 45	Merit Score Fresh Proc		Total Yield <sup>1</sup> &(rank)	US #1 Yield <sup>1</sup> & %	SG	Fry 45	Merit Score Fresh Proc		Total Yield <sup>1</sup> &(rank)	US #1 Yield <sup>1</sup> & %	SG	Fry 45	Merit Score Fresh Proc	
A92030-5	476 (14/17)	415 86	1.082	1.2	3.0	2.5	479 (16/19)	404 83	1.084	1.5	2.9	3.0	503 (18/21)	434 86	1.087	1.4	3.1	3.1
A92294-6	714 (1/17)	507 72	1.091	0.6	3.4	3.7	687 (1/19)	475 69	1.092	0.7	2.7	3.6	698 (2/21)	508 73	1.094	1.1	2.2	3.1
A93157-6LS	615 (4/17)	531 87	1.089	0.3	4.0	4.5	600 (2/19)	498 83	1.090	0.3	3.7	4.1	638 (6/21)	544 85	1.088	0.5	3.8	4.1
RANGER R.	586 (6/17)	473 80	1.087	1.3	3.1	3.5	550 (7/20)	441 80	1.085	1.6	3.1	3.7	631 (7/21)	510 81	1.087	1.6	3.0	3.7
R. NORKOTAH	426 (17/17)	344 81	1.073	2	3.4	2.1	417 (19/19)	331 79.734	1.070	2.2	3.2	1.7	455 (21/21)	377 82	1.073	1.8	3.1	2.0
R. BURBANK	588 (5/17)	375 63	1.079	1.9	2.3	2.2	580 (4/19)	373 65	1.079	1.9	2.3	2.4	606 (10/21)	359 60	1.081	1.6	2.2	2.6
<b>Trial Mean</b>	545	428 79	1.083	1.3	3.0	2.8	531	429 81	1.082	1.4	3.0	3.0	593	486 82	1.083	1.2	2.9	3.0

3 Year Average (2003-2005)

Clone	Total Yield <sup>1</sup> &(rank) <sup>2</sup>	US #1 Yield <sup>1</sup> & %	SG	FRY 45	Merit Score		Noted Weaknesses
					Fresh	Proc	
A92030-5	486 (18)	418 85	1.084	1.4	3.0	2.9	Blackspot(late) - 2/3 years; Shatter(late) - 2/3 years; Vert/ED - 3/3 years; HH(late) - 2/3 years; NN - 3/3 years
A92294-6	700 (98)	497 71	1.092	0.8	2.8	3.5	GC - 3/3 years; Scab - 3/3 years; NN - 2/3 years
A93157-6LS	618 (84)	524 85	1.089	0.4	3.8	4.2	Blackspot(late) - 2/3 years; Fusarium(sam) - 3/3 years.
RANGER R.	589 (71)	475	1.086	1.5	3.1	3.6	
R. NORKOTAH	432 (0)	351 81	1.072	2.0	3.2	1.9	
R. BURBANK	591 (73)	369 63	1.080	1.8	2.3	2.4	
<b>Trial Mean<sup>3</sup></b>	556	448 81	1.083	1.3	3.0	2.9	

<sup>1</sup> (CWT/A)

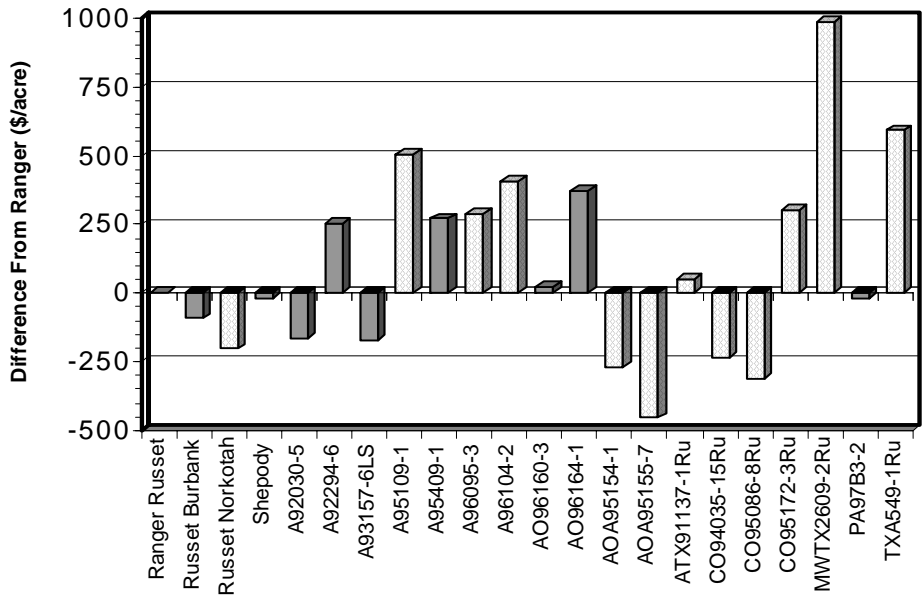
<sup>2</sup> Percent of entries with lower yields; e.g. 18% of all late trial entries over three years, yielded lower than A92030-5.

<sup>3</sup> Trial mean of all trial entries 2003-2005

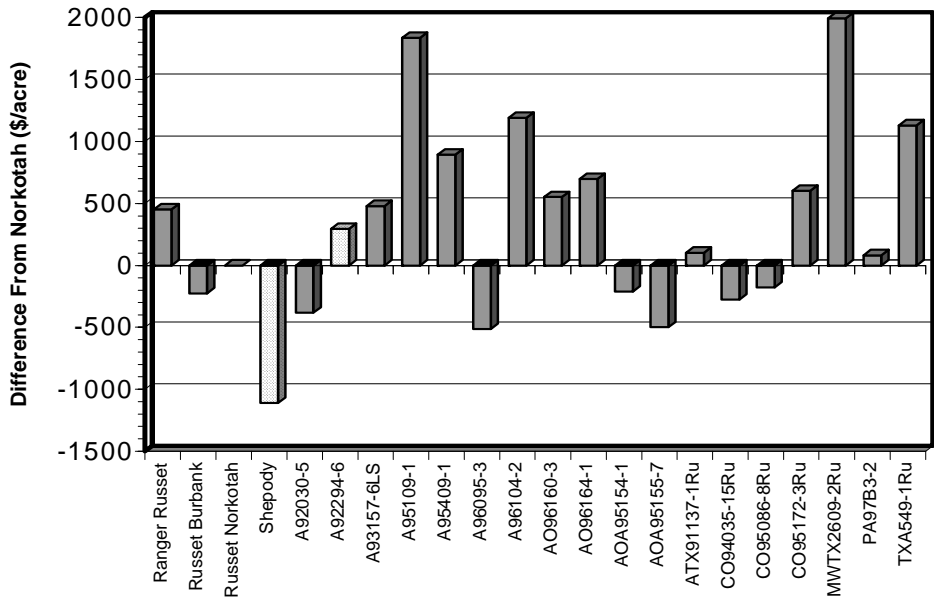
# APPENDIX 1

Go to [www.potatoes.wsu.edu](http://www.potatoes.wsu.edu) for contract parameters used in calculating economic analyses reported in graphs.

## Early Harvest Regional Trial



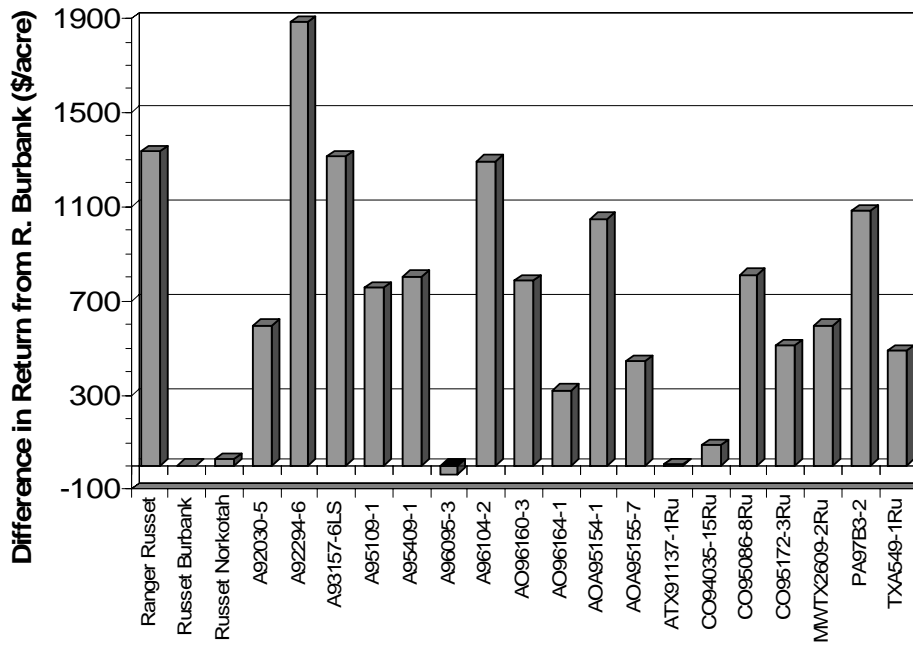
**2005 EARLY REGIONAL TRIAL - PROCESS MARKET:** Difference in gross return per acre from Ranger Russet calculated by subtracting the gross return of Ranger Russet (\$2679) from the gross return of the particular entry. SG = Specific Gravity. Entries with the light x pattern were REJECTED due to specific gravity values of less than 1.074.



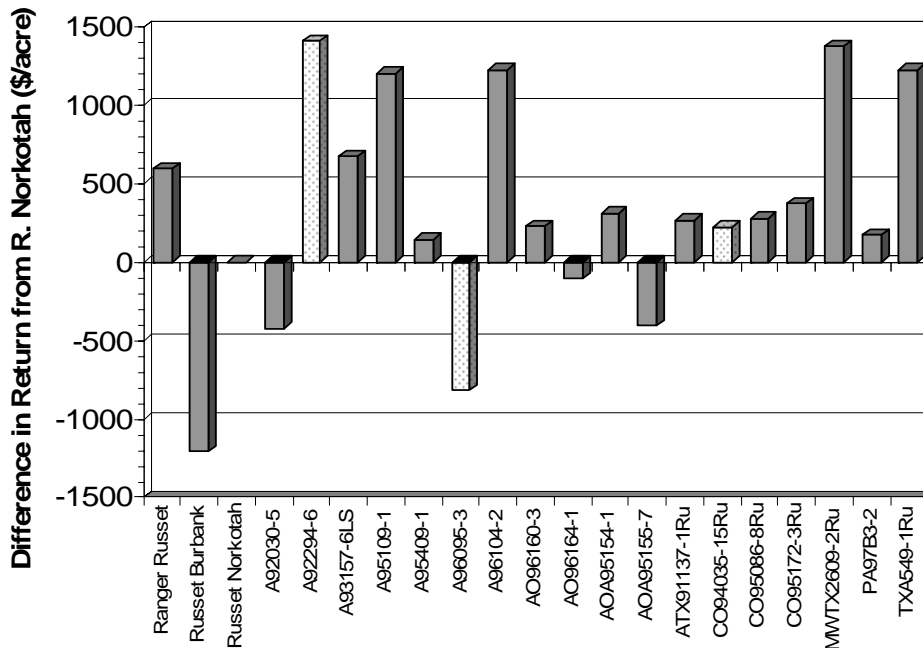
**2005 EARLY REGIONAL TRIAL - FRESH MARKET:** Difference in gross return per acre from Russet Norkotah calculated by subtracting the gross return of Russet Norkotah (\$4464) from the gross return of the particular entry. Entries with dotted pattern may not appeal to fresh market consumers due to undesirable shape or appearance.

## APPENDIX 2

### *Late Harvest Regional Trial*



**2005 LATE REGIONAL TRIAL - PROCESS MARKET:** Difference in gross return per acre from Russet Burbank calculated by subtracting the gross return of Russet Burbank (\$1988) from the gross return of the particular entry.



**2005 LATE REGIONAL TRIAL - FRESH MARKET:** Difference in gross return per acre from Norkotah calculated by subtracting the gross return of Norkotah (\$4534) from the gross return of the particular entry. Entries with dotted pattern may not appeal to fresh market consumers due to undesirable shape or appearance.