

# 2000 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

California

Colorado

Idaho

New Mexico

Oregon

Texas

Washington

State Experiment Stations and  
USDA-ARS Cooperating



## 2000 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

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TABLE 1: 2000 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	Insecticides	Fungicides
			Early	Late									
1	Kern Co. California ( <b>KRN</b> )	R. Voss, H. Phillips, J. Nunez	Early	Sprink.		245	22-Feb	28-Jun		127	Eptam, Prowl		Bravo W.S.
2	Tulelake California ( <b>TUL</b> )	R. Voss, H. Phillips, D. Kirby, H. Carlson	Late	Sprink.		160-20	10-May	26-Sep		124 139	Lexone, Matrix Diquat	Pounce	Curzate, Dithane Bravo, Kocide
3	San Luis Valley Colorado ( <b>SLV</b> )	D. Holm, F. Popiel	Late	Pivot		160-150-60	17-May	27-Sep		106 133	Dual Magnum + Sencor, Poast Sulfuric Acid	Fulfill, Asana XL Thiodan 3 EC	Dithane F-45, Quadris Bravo (Ultrex, Weather Stik) Super Tin 80WP
4	Aberdeen Idaho ( <b>AB</b> )	S. Love, R. Novy, D. Corsini	Late	Sprink.		240-150-50+	27-Apr	19-Sep		134 145	Sencor DF + Matrix, Eptam 7E Diquat	Admire, Fulfill	Bravo WeatherStik
5	Kimberly Idaho ( <b>KIM</b> )	S. Love, R. Novy, D. Corsini	Late	Sprink.		221-26	25-Apr	28-Sep		139 156	Eptam Lexon + Matrix Mech.	Mocap 10G Success Sevin 4F	Bravo Ultrex
6	Farmington New Mexico ( <b>FRM</b> )	M. O'Neil, C. Owen	Late	Sprink.		224-104-120	27-Apr	?		?	Turbo		
7	Hermiston Oregon ( <b>HRM</b> )	D. Hane, A. Mosley	Early Late	Pivot Pivot		290-80-200-40 282-178-278-132	28-Mar 13-Apr	7-Aug 25-Sep		118 151 165	<b>Matrix</b> , Eptam <b>Prowl</b> , Vapam	Mocap, Admire, Monitor Temik, Asana, Comite <b>Phorate</b> , Lannate	Bravo, <b>Dithane</b> <b>Botran</b> , Quadris Curzate
8	Klamath Falls Oregon ( <b>KLM</b> )	K. Rykbost, B. Charlton	Late	Sprink.		160-80-80-140	17-May	29-Sep		121 135	Dual, Prowl	DiSyston Monitor	Tops MZ, Bravo Dithane, NuCop Ridomil-MZ
9	Malheur Oregon ( <b>MAL</b> )	C. Shock, A. Mosley, E. Eldredge	Early Late	Furrow Furrow		110 110	20-Apr 1-May	23-Aug 5-Sep		123 120 127	Roundup Ultra <b>Prowl + Dual</b> Mech	<b>Thimet</b>	<b>Telone II</b> , <b>Bravo</b> <b>Dithane</b> <b>Sulfer Powder</b>
10	Dalhart Texas ( <b>DAL</b> )	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot		305	18-May	10-Sep		102 115	Prowl, Sencor Poast, Matrix	Admire, Baythroid Asana, Provado	Maxim, Quadris Supertin, Ridomil
11	Springlake Texas ( <b>SPR</b> )	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot		160-33-63	11-Mar	13-Aug		129 155	Prowl, Sencor Roundup	Admire	Tops MZ
12	Eltopia ( <b>ELT</b> ) Warden ( <b>WRD</b> ) Washington	R. Thornton, N. Fuller, J. Rupp, G. Newberry	Early Late	Pivot Pivot		268-120-200 393-355-370	16-Mar 17-Apr	1-Aug 25-Sep		138 150 161	Sencor DF Sencor, Prowl Diquat	Asana Temik, 2 Monitor Comite	3 Manzate 75DF Ridomil, Roval Bravo, Super Tin

Bold indicates use in both early and late trial.

TABLE 2: 2000 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 Source	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>		
1	RUSSET BURBANK	W	Ck	Dual	E/L	-	OR	97	Long	4.4	Med Russet	3.9	Med-large	3.4	Medium	3.2
2	RANGER RUSSET	RP	Ck	Dual	E/L	-	OR	96	Long	4.4	Med Russet	3.9	Med-large	3.7	Medium	3.3
3	RUSSET NORKOTAH	W	Ck	Fresh	E/L	-	OR	95	Long	4.2	Med-Hvy Rus	4.1	Small	2.4	Early	1.8
4	SHEPODY	RP	Ck	Proc	E	-	OR	98	Oblong	3.2	White	1.9	Med-large	3.8	Med-early	2.6
5	A8792-1	W	ID	Dual	E/L	3	ID	96	Obl-Lng	3.7	Med-Hvy Rus	4.1	Large	4.1	Medium	3.4
6	A8893-1	RP	ID	Dual	E/L	2	OR	95	Obl-Lng	3.7	Med Russet	3.8	Medium	3.0	Med-early	2.6
7	A9014-2	W	ID	Dual	E/L	2	OR	91	Obl-Lng	3.9	Med-Hvy Rus	4.4	Medium	3.1	Med-early	3.0
8	A9045-7	RP	ID	Dual	E/L	1	OR	95	Long	4.1	Med Russet	3.1	Med-large	3.7	Medium	3.1
9	A90586-11	W	ID	Proc	L	1	OR	97	Obl-Lng	4.0	Light Russet	2.9	Med-large	3.5	Med-early	2.9
10	AC87079-3	W	CO	Fresh	E/L	2	CO	96	Obl-Lng	3.9	Med-Hvy Rus	4.4	Med-large	3.5	Medium	3.1
11	AC87138-4	W	CO	Dual	E/L	2	CO	96	Long	4.3	Med-Hvy Rus	4.1	Med-large	3.7	Med-early	2.9
12	AC89536-5	RP	CO	Fresh	E/L	1	CO	96	Long	4.1	Med-Hvy Rus	4.2	Med-large	3.5	Med-early	2.7
13	ATX9202-3RU	W	TX	Dual	E/L	1	CO	96	Obl-Lng	3.9	Med Russet	4.0	Med-large	3.8	Medium	3.2
14	PORTGNP3-138	W	OR	Fresh	E	2	OR	100	Obl-Lng	3.9	Med-Hvy Rus	4.1	Medium	3.0	Early	1.0
15	PORTGS124-1	RP	OR	Proc	E	2	OR	98	Obl-Lng	3.8	White	1.9	Medium	3.0	Early	2.0
16	PORTGS129-1	RP	OR	Proc	E	2	OR	100	Obl-Lng	3.6	White	1.8	Very large	5.0	Early	2.0
17	TXNS102	W	TX	Fresh	E/L	2	TX	98	Long	4.3	Med Russet	4.0	Medium	3.0	Early	2.0
18	TXNS296	W	TX	Fresh	E/L	2	TX	96	Long	4.4	Med-Hvy Rus	4.2	Med-large	3.3	Early	2.2

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

<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: 2000 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)							Dunc						
	CA	OR		TX		WA	Entry	CA	CO	ID		NM	OR			WA	Entry				
	KRN	HRM	MAL	DAL	SPR	ELT	Mean/Rank	TUL	SLV <sup>1</sup>	AB	KIM	FRM	HRM	KLM		MAL	WRD	Mean/Rank			
1 R. BURBANK	319	512	420	203	247	546	<b>375</b>	<b>13</b>	cd	605	430	487	344	600	671	564	466	803	<b>568</b>	<b>5</b>	bcd
2 RANGER R.	352	584	341	288	262	594	<b>404</b>	<b>11</b>	abcd	598	421	492	489	559	706	569	335	739	<b>561</b>	<b>6</b>	bcd
3 R. NORKOTAH	385	333	363	226	308	443	<b>343</b>	<b>17</b>	d	354	409	299	232	398	441	459	327	506	<b>377</b>	<b>14</b>	g
4 SHEPODY	-	486	292	286	234	520	<b>364</b>	<b>14</b>	d	-	-	-	-	-	-	-	-	-	-	-	-
5 A8792-1	375	556	391	177	389	537	<b>404</b>	<b>10</b>	abcd	749	-	629	576	568	646	547	343	817	<b>609</b>	<b>2</b>	ab
6 A8893-1	337	552	536	292	367	586	<b>445</b>	<b>4</b>	abc	610	-	517	464	422	618	586	350	709	<b>534</b>	<b>8</b>	cdef
7 A9014-2	299	488	326	237	269	505	<b>354</b>	<b>16</b>	d	486	-	412	327	412	687	506	300	636	<b>471</b>	<b>12</b>	ef
8 A9045-7	326	546	433	311	323	552	<b>415</b>	<b>7</b>	abcd	614	-	606	530	601	526	614	459	863	<b>602</b>	<b>3</b>	abc
9 A90586-11	380	704	402	312	367	642	<b>468</b>	<b>1</b>	a	631	-	583	530	661	820	735	319	899	<b>647</b>	<b>1</b>	a
10 AC87079-3	-	-	-	163	127	-	-	-		517	481	488	345	541	423	447	274	673	<b>463</b>	<b>13</b>	f
11 AC87138-4	308	495	289	196	342	531	<b>360</b>	<b>15</b>	d	654	446	550	276	367	667	510	384	639	<b>506</b>	<b>9</b>	def
12 AC89536-5	330	548	433	334	316	532	<b>416</b>	<b>6</b>	abcd	607	439	470	473	603	656	529	271	702	<b>539</b>	<b>7</b>	bcde
13 ATX9202-3RU	344	533	436	318	199	460	<b>382</b>	<b>12</b>	bcd	679	466	517	428	532	642	622	381	744	<b>568</b>	<b>4</b>	bcd
14 PORTGNP3-138	-	457	322	-	-	434	<b>404</b>	<b>9</b>	abcd	-	-	-	-	-	-	-	-	-	-	-	-
15 PORTGS124-1	-	497	301	-	-	583	<b>460</b>	<b>2</b>	a	-	-	-	-	-	-	-	-	-	-	-	-
16 PORTGS129-1	-	477	330	-	-	558	<b>455</b>	<b>3</b>	ab	-	-	-	-	-	-	-	-	-	-	-	-
17 TXNS102	423	502	378	310	373	533	<b>420</b>	<b>5</b>	abcd	579	421	382	386	486	544	523	-	-	<b>483</b>	<b>10</b>	ef
18 TXNS296	320	525	442	269	371	553	<b>413</b>	<b>8</b>	abcd	611	453	400	349	461	527	538	-	-	<b>481</b>	<b>11</b>	ef
<b>Location Means</b>	<b>346</b>	<b>517</b>	<b>378</b>	<b>262</b>	<b>300</b>	<b>536</b>	<b>405</b>			<b>592</b>	<b>441</b>	<b>488</b>	<b>411</b>	<b>515</b>	<b>612</b>	<b>554</b>	<b>351</b>	<b>727</b>	<b>529</b>		

Numbers followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

<sup>1</sup>Excluded from means due to missing entries.

TABLE 4: 2000 Western Regional Potato Variety Trial - YIELD OF U.S. #1'S (CWT/A &amp; %) - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's - Early Harvest (CWT/A)								U.S. No. 1's - Late Harvest (CWT/A)								Dunc				
	CA		OR		TX		WA	Entry	CA		CO	ID		NM	OR			WA	Entry		
	KRN	HRM	MAL	DAL	SPR	ELT	Mean/Rank	TUL	SLV <sup>1</sup>	AB	KIM	FRM <sup>2</sup>	HRM	KLM	MAL	WRD		Mean/Rank			
1 R. BURBANK	266	313	204	88	79	306	<b>209</b>	<b>17</b>	d	436	308	274	88	505	427	378	187	349	<b>330</b>	<b>13</b>	ef
	83	61	48	43	32	56	<b>54</b>	<b>17</b>		73	72	56	26	84	64	67	41	43	<b>57</b>	<b>14</b>	
2 RANGER R.	327	439	199	213	143	508	<b>305</b>	<b>10</b>	abc	452	365	366	289	535	547	381	207	583	<b>420</b>	<b>7</b>	abcd
	93	75	58	74	55	86	<b>73</b>	<b>11</b>		75	87	74	59	96	77	67	63	79	<b>74</b>	<b>12</b>	
3 R. NORKOTAH	354	259	292	166	260	377	<b>285</b>	<b>12</b>	abc	303	332	242	174	357	306	402	260	419	<b>308</b>	<b>14</b>	f
	92	78	81	73	85	85	<b>82</b>	<b>3</b>		86	81	81	75	90	69	88	79	83	<b>81</b>	<b>3</b>	
4 SHEPODY	-	324	192	204	115	398	<b>247</b>	<b>16</b>	cd	-	-	-	-	-	-	-	-	-	-	-	-
	-	67	66	72	49	76	<b>66</b>	<b>14</b>		-	-	-	-	-	-	-	-	-	-	-	-
5 A8792-1	361	407	274	134	258	461	<b>316</b>	<b>7</b>	abc	590	-	528	419	548	414	334	228	636	<b>462</b>	<b>4</b>	abc
	96	73	70	76	66	86	<b>78</b>	<b>6</b>		78	-	84	73	96	64	61	67	78	<b>75</b>	<b>10</b>	
6 A8893-1	308	415	358	235	269	524	<b>352</b>	<b>2</b>	a	515	-	441	341	397	456	496	241	557	<b>431</b>	<b>5</b>	abcd
	91	75	65	81	73	90	<b>79</b>	<b>5</b>		84	-	85	73	94	74	85	69	79	<b>80</b>	<b>5</b>	
7 A9014-2	268	433	228	203	237	424	<b>299</b>	<b>11</b>	abc	409	-	354	228	394	622	437	211	543	<b>400</b>	<b>8</b>	bcde
	90	89	71	86	88	84	<b>85</b>	<b>2</b>		84	-	86	70	96	91	86	71	85	<b>84</b>	<b>1</b>	
8 A9045-7	304	488	308	232	297	512	<b>357</b>	<b>1</b>	a	495	-	526	413	557	387	417	368	787	<b>494</b>	<b>2</b>	a
	93	90	71	75	92	93	<b>85</b>	<b>1</b>		80	-	87	78	93	74	68	80	91	<b>81</b>	<b>4</b>	
9 A90586-11	357	516	292	204	237	492	<b>350</b>	<b>3</b>	a	553	-	398	283	633	710	533	197	664	<b>496</b>	<b>1</b>	a
	94	73	72	65	65	77	<b>74</b>	<b>10</b>		88	-	68	53	96	87	73	63	74	<b>75</b>	<b>11</b>	
10 AC87079-3	-	-	-	134	89	-	-	-		422	418	399	229	522	227	373	185	558	<b>364</b>	<b>12</b>	def
	-	-	-	82	70	-	-	-		82	87	82	66	97	54	83	69	83	<b>77</b>	<b>9</b>	
11 AC87138-4	278	372	178	136	206	427	<b>266</b>	<b>14</b>	bcd	497	383	417	144	333	412	392	265	463	<b>365</b>	<b>11</b>	def
	89	75	62	70	60	81	<b>73</b>	<b>12</b>		76	86	76	52	91	62	77	69	72	<b>72</b>	<b>13</b>	
12 AC89536-5	316	442	321	198	254	395	<b>321</b>	<b>5</b>	abc	507	359	387	291	561	516	435	195	532	<b>428</b>	<b>6</b>	abcd
	96	81	74	59	80	74	<b>77</b>	<b>7</b>		82	82	82	62	93	79	82	71	76	<b>78</b>	<b>7</b>	
13 ATX9202-3RU	310	443	319	251	160	402	<b>314</b>	<b>8</b>	abc	603	389	463	289	516	559	478	265	667	<b>480</b>	<b>3</b>	ab
	90	83	74	79	81	87	<b>82</b>	<b>4</b>		89	84	90	68	97	87	77	69	90	<b>83</b>	<b>2</b>	
14 PORTGNP3-138	-	316	155	-	-	299	<b>257</b>	<b>15</b>	cd	-	-	-	-	-	-	-	-	-	-	-	-
	-	69	47	-	-	69	<b>62</b>	<b>15</b>		-	-	-	-	-	-	-	-	-	-	-	-
15 PORTGS124-1	-	403	148	-	-	470	<b>341</b>	<b>4</b>	ab	-	-	-	-	-	-	-	-	-	-	-	-
	-	81	48	-	-	81	<b>70</b>	<b>13</b>		-	-	-	-	-	-	-	-	-	-	-	-
16 PORTGS129-1	-	314	142	-	-	392	<b>283</b>	<b>13</b>	abc	-	-	-	-	-	-	-	-	-	-	-	-
	-	66	40	-	-	70	<b>59</b>	<b>16</b>		-	-	-	-	-	-	-	-	-	-	-	-
17 TXNS102	402	344	253	231	276	401	<b>318</b>	<b>6</b>	abc	492	384	283	235	447	369	447	-	-	<b>379</b>	<b>10</b>	cdef
	95	69	66	74	74	75	<b>76</b>	<b>8</b>		85	91	74	61	92	68	85	-	-	<b>78</b>	<b>8</b>	
18 TXNS296	291	393	300	170	280	435	<b>311</b>	<b>9</b>	abc	468	405	342	245	413	358	476	-	-	<b>384</b>	<b>9</b>	cdef
	91	75	67	63	75	79	<b>75</b>	<b>9</b>		76	89	86	70	90	68	88	-	-	<b>80</b>	<b>6</b>	
<b>Location Means</b>	319	389	245	187	211	425	<b>302</b>			482	371	387	262	480	451	427	234	563	<b>410</b>		
	92	75	64	71	70	79	<b>74</b>			81	84	79	63	93	73	78	68	78	<b>77</b>		

Numbers followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

<sup>1</sup>Excluded from means due to missing entries.

<sup>2</sup>FRM graded by size: > 1 7/8".

TABLE 5: 2000 Western Regional Potato Variety Trial - YIELD &gt; 10/12 OZ (CWT/A &amp; %) - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's > 10/12 OZ - Early Harvest (CWT/A)								Dunc	U.S. No. 1's > 10/12 OZ - Late Harvest (CWT/A)										Dunc	
	CA		OR		TX		WA	Entry		CA	CO	ID		NM	OR		WA	Entry			
	KRN	HRM	MAL	DAL	SPR	ELT	Mean/Rank	TUL		SLV <sup>1</sup>	AB	KIM	FRM <sup>2</sup>	HRM	KLM	MAL	WRD	Mean/Rank			
1 R. BURBANK	39	23	34	11	8	16	<b>22</b>	<b>17</b>	e	75	88	117	28	9	170	76	28	122	<b>78</b>	<b>13</b>	e
	12	4	8	5	3	3	<b>6</b>	<b>17</b>		12	20	24	8	1	25	13	6	15	<b>13</b>	<b>14</b>	
2 RANGER R.	72	142	63	45	39	90	<b>75</b>	<b>9</b>	bcde	212	180	161	158	27	322	139	55	357	<b>179</b>	<b>6</b>	abcd
	20	24	19	16	15	15	<b>18</b>	<b>9</b>		35	43	33	32	5	46	24	17	48	<b>30</b>	<b>5</b>	
3 R. NORKOTAH	67	31	87	24	90	47	<b>58</b>	<b>14</b>	cde	77	102	44	48	18	87	118	56	96	<b>68</b>	<b>14</b>	e
	17	9	24	11	29	11	<b>17</b>	<b>10</b>		22	25	15	21	5	20	26	17	19	<b>18</b>	<b>13</b>	
4 SHEPODY	-	200	80	32	25	153	<b>98</b>	<b>6</b>	bcd	-	-	-	-	-	-	-	-	-	-	-	-
	-	41	27	11	11	29	<b>24</b>	<b>4</b>		-	-	-	-	-	-	-	-	-	-	-	-
5 A8792-1	74	202	94	23	98	122	<b>102</b>	<b>4</b>	bc	326	-	270	252	101	272	64	49	366	<b>212</b>	<b>2</b>	a
	20	36	24	13	25	23	<b>24</b>	<b>5</b>		44	-	43	44	18	42	12	14	45	<b>33</b>	<b>3</b>	
6 A8893-1	62	108	182	67	66	144	<b>105</b>	<b>3</b>	bc	181	-	138	122	20	237	153	121	261	<b>154</b>	<b>7</b>	abcd
	18	20	34	23	18	25	<b>23</b>	<b>6</b>		30	-	27	26	5	38	26	35	37	<b>28</b>	<b>8</b>	
7 A9014-2	49	159	90	82	66	103	<b>91</b>	<b>7</b>	bcd	159	-	146	112	148	406	205	111	302	<b>199</b>	<b>4</b>	ab
	16	33	27	35	25	20	<b>26</b>	<b>3</b>		33	-	35	34	36	59	41	37	47	<b>40</b>	<b>1</b>	
8 A9045-7	66	214	152	37	138	136	<b>124</b>	<b>2</b>	b	132	-	334	246	49	155	205	98	519	<b>217</b>	<b>1</b>	a
	20	39	35	12	43	25	<b>29</b>	<b>2</b>		22	-	55	46	8	29	33	21	60	<b>34</b>	<b>2</b>	
9 A90586-11	70	112	68	19	32	122	<b>71</b>	<b>10</b>	bcde	157	-	188	173	69	465	175	1	383	<b>201</b>	<b>3</b>	ab
	19	16	17	6	9	19	<b>14</b>	<b>14</b>		25	-	32	33	10	57	24	0	43	<b>28</b>	<b>7</b>	
10 AC87079-3	-	-	-	29	13	-	-	-		127	163	218	72	49	69	79	76	288	<b>122</b>	<b>10</b>	cde
	-	-	-	18	10	-	-	-		24	34	45	21	9	16	18	28	43	<b>26</b>	<b>9</b>	
11 AC87138-4	17	127	61	26	47	95	<b>62</b>	<b>13</b>	cde	138	144	195	72	48	202	103	50	263	<b>134</b>	<b>9</b>	bcde
	6	26	21	13	14	18	<b>16</b>	<b>11</b>		21	32	35	26	13	30	20	13	41	<b>25</b>	<b>10</b>	
12 AC89536-5	50	68	63	0	51	32	<b>44</b>	<b>15</b>	de	124	107	139	87	40	188	83	31	215	<b>113</b>	<b>12</b>	de
	15	12	14	0	16	6	<b>11</b>	<b>15</b>		20	24	30	18	7	29	16	11	31	<b>20</b>	<b>12</b>	
13 ATX9202-3RU	15	153	100	41	4	92	<b>67</b>	<b>11</b>	cde	217	112	291	138	79	317	143	44	314	<b>193</b>	<b>5</b>	abc
	4	29	23	13	2	20	<b>15</b>	<b>13</b>		32	24	56	32	15	49	23	12	42	<b>33</b>	<b>4</b>	
14 PORTGNP3-138	-	31	34	-	-	17	<b>27</b>	<b>16</b>	e	-	-	-	-	-	-	-	-	-	-	-	-
	-	7	10	-	-	4	<b>7</b>	<b>16</b>		-	-	-	-	-	-	-	-	-	-	-	-
15 PORTGS124-1	-	291	63	-	-	225	<b>193</b>	<b>1</b>	a	-	-	-	-	-	-	-	-	-	-	-	-
	-	59	21	-	-	39	<b>39</b>	<b>1</b>		-	-	-	-	-	-	-	-	-	-	-	-
16 PORTGS129-1	-	142	39	-	-	120	<b>100</b>	<b>5</b>	bc	-	-	-	-	-	-	-	-	-	-	-	-
	-	30	12	-	-	22	<b>21</b>	<b>7</b>		-	-	-	-	-	-	-	-	-	-	-	-
17 TXNS102	73	53	81	41	68	62	<b>63</b>	<b>12</b>	cde	174	250	68	93	51	121	183	-	-	<b>115</b>	<b>11</b>	de
	17	11	22	13	18	12	<b>15</b>	<b>12</b>		30	59	18	24	11	22	35	-	-	<b>23</b>	<b>11</b>	
18 TXNS296	41	71	163	7	130	114	<b>88</b>	<b>8</b>	bcd	269	248	67	90	37	167	222	-	-	<b>142</b>	<b>8</b>	abcde
	13	14	37	2	35	21	<b>20</b>	<b>8</b>		44	55	17	26	8	32	41	-	-	<b>28</b>	<b>6</b>	
<b>Location Means</b>	53	125	85	32	59	99	<b>82</b>			169	155	170	121	53	227	139	60	291	<b>152</b>		
	15	24	22	13	18	18	<b>19</b>			28	35	33	28	11	35	25	18	39	<b>27</b>		

Numbers followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

<sup>1</sup>Excluded from means due to missing entries.

<sup>2</sup>FRM graded by size: > 3".

TABLE 6: 2000 Western Regional Potato Variety Trial - YIELD &lt; 4 OZ (CWT/A &amp; %) - EARLY AND LATE HARVEST

No. Clone	Yield < 4 OZ - Early Harvest (CWT/A)								Dunc	Yield < 4 OZ - Late Harvest (CWT/A)								Dunc			
	CA		OR		TX		WA	Entry		CA	CO	ID		NM	OR		WA		Entry		
	KRN	HRM	MAL	DAL	SPR	ELT	Mean/Rank	TUL		SLV <sup>1</sup>	AB	KIM	FRM <sup>2</sup>	HRM	KLM	MAL	WRD		Mean/Rank		
1 R. BURBANK	23	88	18	34	54	111	<b>54</b>	<b>4</b>	abc	32	88	30	56	96	88	54	61	92	<b>64</b>	<b>1</b>	a
	7	17	4	17	22	20	<b>15</b>	<b>3</b>		5	20	6	16	16	13	10	13	11	<b>11</b>	<b>1</b>	
2 RANGER R.	13	36	10	57	26	47	<b>32</b>	<b>11</b>	cde	12	34	24	34	25	42	15	36	33	<b>28</b>	<b>13</b>	e
	4	6	3	20	10	8	<b>8</b>	<b>13</b>		2	8	5	7	4	6	3	11	4	<b>5</b>	<b>13</b>	
3 R. NORKOTAH	19	55	8	55	28	60	<b>38</b>	<b>9</b>	cde	14	59	49	33	41	63	29	24	53	<b>38</b>	<b>8</b>	cde
	5	17	2	25	9	13	<b>12</b>	<b>7</b>		4	14	16	14	10	14	6	7	10	<b>10</b>	<b>5</b>	
4 SHEPODY	-	20	14	47	20	44	<b>29</b>	<b>14</b>	de	-	-	-	-	-	-	-	-	-	-	-	-
	-	4	5	16	9	9	<b>8</b>	<b>12</b>		-	-	-	-	-	-	-	-	-	-	-	-
5 A8792-1	3	27	20	40	51	40	<b>30</b>	<b>13</b>	cde	13	-	30	38	20	45	23	48	22	<b>30</b>	<b>11</b>	de
	1	5	5	23	13	7	<b>9</b>	<b>10</b>		2	-	5	7	4	7	4	14	3	<b>6</b>	<b>12</b>	
6 A8893-1	17	33	9	42	44	41	<b>31</b>	<b>12</b>	cde	16	-	40	63	25	64	27	36	56	<b>41</b>	<b>7</b>	cde
	5	6	2	14	12	7	<b>8</b>	<b>14</b>		3	-	8	14	6	10	5	10	8	<b>8</b>	<b>8</b>	
7 A9014-2	19	21	5	28	23	53	<b>25</b>	<b>16</b>	e	17	-	28	34	17	29	18	25	37	<b>26</b>	<b>14</b>	e
	6	4	2	12	9	11	<b>7</b>	<b>15</b>		3	-	7	10	4	4	4	8	6	<b>6</b>	<b>11</b>	
8 A9045-7	7	35	8	58	16	27	<b>25</b>	<b>17</b>	e	19	-	11	31	44	56	11	37	16	<b>28</b>	<b>12</b>	e
	2	6	2	19	5	5	<b>6</b>	<b>16</b>		3	-	2	6	7	11	2	8	2	<b>5</b>	<b>14</b>	
9 A90586-11	12	56	14	102	75	70	<b>55</b>	<b>3</b>	abc	23	-	41	43	28	48	42	86	54	<b>46</b>	<b>5</b>	bcd
	3	8	4	33	21	11	<b>13</b>	<b>4</b>		4	-	7	8	4	6	6	27	6	<b>8</b>	<b>7</b>	
10 AC87079-3	-	-	-	26	16	-	-	-		19	58	30	56	18	93	57	20	36	<b>41</b>	<b>6</b>	cde
	-	-	-	16	13	-	-	-		4	12	6	16	3	22	13	7	5	<b>10</b>	<b>6</b>	
11 AC87138-4	22	52	20	36	41	65	<b>39</b>	<b>8</b>	cde	28	51	54	44	34	79	34	68	67	<b>51</b>	<b>3</b>	abc
	7	11	7	18	12	12	<b>11</b>	<b>8</b>		4	11	10	16	9	12	7	18	11	<b>11</b>	<b>4</b>	abc
12 AC89536-5	8	49	18	127	58	123	<b>64</b>	<b>2</b>	ab	32	70	44	92	42	91	48	43	68	<b>57</b>	<b>2</b>	ab
	3	9	4	38	18	23	<b>16</b>	<b>2</b>		5	16	9	19	7	14	9	16	10	<b>11</b>	<b>2</b>	
13 ATX9202-3RU	26	41	14	55	39	47	<b>37</b>	<b>10</b>	cde	14	64	8	53	17	55	17	59	38	<b>33</b>	<b>10</b>	de
	7	8	3	17	19	10	<b>11</b>	<b>9</b>		2	14	2	12	3	9	3	16	5	<b>6</b>	<b>10</b>	
14 PORTGNP3-138	-	80	14	-	-	122	<b>72</b>	<b>1</b>	a	-	-	-	-	-	-	-	-	-	-	-	-
	-	18	4	-	-	28	<b>17</b>	<b>1</b>		-	-	-	-	-	-	-	-	-	-	-	-
15 PORTGS124-1	-	16	21	-	-	40	<b>26</b>	<b>15</b>	e	-	-	-	-	-	-	-	-	-	-	-	-
	-	3	7	-	-	7	<b>6</b>	<b>17</b>		-	-	-	-	-	-	-	-	-	-	-	-
16 PORTGS129-1	-	40	19	-	-	66	<b>42</b>	<b>7</b>	bcde	-	-	-	-	-	-	-	-	-	-	-	-
	-	8	6	-	-	12	<b>9</b>	<b>11</b>		-	-	-	-	-	-	-	-	-	-	-	-
17 TXNS102	18	72	7	70	47	101	<b>52</b>	<b>5</b>	abcd	28	24	69	58	39	76	32	-	-	<b>50</b>	<b>4</b>	abc
	4	14	2	22	13	19	<b>12</b>	<b>5</b>		5	6	18	15	8	14	6	-	-	<b>11</b>	<b>3</b>	
18 TXNS296	19	52	10	74	45	75	<b>46</b>	<b>6</b>	bcde	20	27	38	29	48	50	15	-	-	<b>33</b>	<b>9</b>	de
	6	10	2	27	12	14	<b>12</b>	<b>6</b>		3	6	10	8	10	9	3	-	-	<b>7</b>	<b>9</b>	
<b>Location Means</b>	16	45	13	57	39	67	<b>41</b>			20	53	35	47	35	63	30	45	48	<b>40</b>		
	5	9	4	21	13	13	<b>11</b>			4	12	8	12	7	11	6	13	7	<b>8</b>		

Numbers followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

<sup>1</sup>Excluded from means due to missing entries.

<sup>2</sup>FRM graded by size: <1 7/8".



TABLE 7: 2000 Western Regional Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No. Clone	Specific Gravity - Early Harvest (CWT/A)							Specific Gravity - Late Harvest (CWT/A)													
	CA	OR		TX		WA	Entry	Dunc	CA	CO	ID		NM	OR		WA	Entry	Dunc			
	KRN	HRM	MAL	DAL	SPR	ELT	Mean/Rank		TUL	SLV <sup>1</sup>	AB	KIM	FRM	HRM	KLM	MAL	WRD		Mean/Rank		
1 R. BURBANK	1.092	1.081	1.082	1.063	1.066	1.078	<b>1.077</b>	<b>7</b>	bcdefg	1.085	1.084	1.084	1.072	1.085	1.079	1.085	1.077	1.079	<b>1.081</b>	<b>9</b>	de
2 RANGER R.	1.086	1.074	1.088	1.078	1.066	1.077	<b>1.078</b>	<b>6</b>	bcde	1.086	1.077	1.091	1.080	1.093	1.074	1.085	1.091	1.085	<b>1.086</b>	<b>4</b>	ab
3 R. NORKOTAH	1.083	1.068	1.073	1.062	1.063	1.071	<b>1.070</b>	<b>16</b>	gh	1.076	1.083	1.074	1.066	1.082	1.066	1.066	1.070	1.072	<b>1.071</b>	<b>14</b>	f
4 SHEPODY	-	1.077	1.076	1.073	1.065	1.079	<b>1.074</b>	<b>11</b>	defgh	-	-	-	-	-	-	-	-	-	-	-	-
5 A8792-1	1.088	1.085	1.090	1.072	1.070	1.085	<b>1.082</b>	<b>2</b>	ab	1.086	-	1.096	1.089	1.093	1.079	1.093	1.084	1.090	<b>1.089</b>	<b>2</b>	a
6 A8893-1	1.084	1.080	1.078	1.066	1.060	1.073	<b>1.074</b>	<b>12</b>	efgh	1.081	-	1.084	1.073	1.082	1.074	1.086	1.073	1.076	<b>1.079</b>	<b>11</b>	e
7 A9014-2	1.086	1.079	1.089	1.069	1.068	1.079	<b>1.078</b>	<b>5</b>	bcde	1.083	-	1.090	1.080	1.093	1.078	1.083	1.087	1.084	<b>1.085</b>	<b>5</b>	bc
8 A9045-7	1.089	1.079	1.088	1.072	1.065	1.085	<b>1.080</b>	<b>4</b>	abcd	1.084	-	1.093	1.083	1.094	1.074	1.085	1.090	1.087	<b>1.086</b>	<b>3</b>	ab
9 A90586-11	1.090	1.080	1.095	1.080	1.078	1.083	<b>1.084</b>	<b>1</b>	a	1.091	-	1.092	1.086	1.097	1.078	1.092	1.088	1.087	<b>1.089</b>	<b>1</b>	a
10 AC87079-3	-	-	-	1.068	1.063	-	-	-		1.082	1.097	1.089	1.078	1.096	1.068	1.086	1.089	1.086	<b>1.084</b>	<b>7</b>	bcd
11 AC87138-4	1.090	1.072	1.082	1.063	1.061	1.080	<b>1.075</b>	<b>10</b>	cdefgh	1.083	1.089	1.087	1.073	1.089	1.076	1.079	1.085	1.081	<b>1.082</b>	<b>8</b>	cde
12 AC89536-5	1.089	1.080	1.092	1.072	1.073	1.074	<b>1.080</b>	<b>3</b>	abc	1.085	1.084	1.085	1.077	1.090	1.078	1.084	1.090	1.086	<b>1.084</b>	<b>6</b>	bcd
13 ATX9202-3RU	1.086	1.078	1.084	1.067	1.066	1.074	<b>1.076</b>	<b>8</b>	cdefg	1.084	1.084	1.088	1.072	1.087	1.074	1.081	1.078	1.080	<b>1.081</b>	<b>10</b>	e
14 PORTGNP3-138	-	1.069	1.069	-	-	1.071	<b>1.069</b>	<b>17</b>	h	-	-	-	-	-	-	-	1.084	-	-	-	-
15 PORTGS124-1	-	1.073	1.071	-	-	1.076	<b>1.073</b>	<b>13</b>	efgh	-	-	-	-	-	-	-	-	-	-	-	-
16 PORTGS129-1	-	1.077	1.073	-	-	1.076	<b>1.075</b>	<b>9</b>	cdefgh	-	-	-	-	-	-	-	-	-	-	-	-
17 TXNS102	1.080	1.070	1.078	1.065	1.065	1.070	<b>1.071</b>	<b>15</b>	fgh	1.082	1.079	1.075	1.068	1.084	1.067	1.069	-	-	<b>1.074</b>	<b>12</b>	f
18 TXNS296	1.086	1.068	1.079	1.066	1.063	1.069	<b>1.072</b>	<b>14</b>	fgh	1.072	1.079	1.077	1.070	1.084	1.067	1.067	-	-	<b>1.073</b>	<b>13</b>	f
<b>Location Means</b>	1.087	1.076	1.082	1.069	1.066	1.076	<b>1.076</b>			1.083	1.084	1.086	1.076	1.089	1.074	1.082	1.084	1.083	<b>1.082</b>		

Numbers followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

<sup>1</sup>Excluded from means due to missing entries.

TABLE 8: 2000 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	ID	OR	WA	Mean	CA	OR	TX	WA	Mean	CA	CO	ID	KIM	OR	WA	Mean				
HRM	DAL	SPR	ELT	AB		KIM	HRM	WRD		KRN	HRM	MAL	SPR		ELT	TUL	SLV	AB	KIM	HRM		KLM	MAL	WRD	
1 R. BURBANK	6.0	3.5	4.4	5.5	<b>4.8</b>	8.8	6.1	7.3	7.8	<b>7.5</b>	5.0	5.0	5.0	3.6	4.0	<b>4.5</b>	4.3	5.0	4.5	4.0	5.0	5.0	3.5	3.7	<b>4.4</b>
2 RANGER R.	9.4	4.0	5.6	7.0	<b>6.5</b>	9.0	9.0	10.4	10.5	<b>9.7</b>	4.0	5.0	4.0	3.8	4.0	<b>4.2</b>	3.8	5.0	5.0	4.5	5.0	5.0	3.3	4.3	<b>4.5</b>
3 R. NORKOTAH	5.8	2.9	6.9	6.1	<b>5.4</b>	5.8	6.1	6.6	6.7	<b>6.3</b>	4.0	4.9	3.0	4.1	4.0	<b>4.0</b>	2.3	5.0	4.0	4.0	5.0	4.0	3.0	5.0	<b>4.0</b>
4 SHEPODY	11.0	4.1	6.3	7.9	<b>7.3</b>	-	-	-	-	-	-	3.7	3.0	3.1	3.0	<b>3.2</b>	-	-	-	-	-	-	-	-	-
5 A8792-1	9.8	4.0	7.0	7.5	<b>7.1</b>	9.4	9.0	9.5	11.1	<b>9.8</b>	4.0	4.5	3.0	3.8	4.0	<b>3.9</b>	4.8	-	3.3	3.8	5.0	3.0	3.0	3.3	<b>3.7</b>
6 A8893-1	7.9	3.9	6.0	7.5	<b>6.3</b>	7.2	6.5	8.0	8.7	<b>7.6</b>	3.3	3.7	3.5	3.9	3.0	<b>3.5</b>	3.3	-	3.8	3.8	4.1	4.0	3.0	4.3	<b>3.8</b>
7 A9014-2	9.1	4.0	6.9	6.8	<b>6.7</b>	8.2	8.2	11.1	9.7	<b>9.3</b>	3.5	4.6	3.3	4.0	4.0	<b>3.9</b>	3.5	-	3.8	4.0	4.5	4.0	3.0	4.7	<b>3.9</b>
8 A9045-7	8.8	4.0	7.6	8.1	<b>7.1</b>	11.8	9.7	8.0	12.1	<b>10.4</b>	4.0	4.2	3.3	4.9	4.0	<b>4.1</b>	3.8	-	4.0	4.0	5.0	4.3	3.0	4.7	<b>4.1</b>
9 A90586-11	7.9	3.9	4.8	6.8	<b>5.8</b>	8.5	8.8	11.1	9.6	<b>9.5</b>	4.0	4.8	3.3	3.6	4.8	<b>4.1</b>	3.5	-	4.0	4.8	5.0	4.3	2.5	3.3	<b>3.9</b>
10 AC87079-3	-	4.0	5.0	-	<b>4.5</b>	9.7	5.9	5.5	9.5	<b>7.6</b>	-	-	-	3.6	-	<b>3.6</b>	3.5	4.0	4.0	4.0	4.3	4.0	3.0	4.3	<b>3.9</b>
11 AC87138-4	7.5	4.0	5.1	6.6	<b>5.8</b>	7.7	6.8	8.2	8.5	<b>7.8</b>	4.0	4.9	3.3	4.9	4.0	<b>4.2</b>	4.3	5.0	3.8	4.5	4.8	4.0	3.5	4.7	<b>4.3</b>
12 AC89536-5	8.5	3.9	4.9	5.0	<b>5.6</b>	7.0	5.4	7.0	7.6	<b>6.8</b>	3.5	4.7	4.0	3.5	3.8	<b>3.9</b>	3.3	5.0	4.0	4.5	5.0	4.0	2.7	3.7	<b>4.0</b>
13 ATX9202-3RU	8.2	4.0	4.7	6.9	<b>5.9</b>	11.9	7.6	9.4	9.1	<b>9.5</b>	3.7	5.0	3.3	3.6	3.0	<b>3.7</b>	4.5	5.0	4.0	4.0	4.2	4.3	3.0	3.3	<b>4.0</b>
14 PORTGNP3-138	5.8	-	-	4.7	<b>5.2</b>	-	-	-	-	-	-	4.7	3.0	-	4.0	<b>3.9</b>	-	-	-	-	-	-	-	-	-
15 PORTGS124-1	11.3	-	-	8.6	<b>10.0</b>	-	-	-	-	-	-	4.2	3.8	-	3.5	<b>3.8</b>	-	-	-	-	-	-	-	-	-
16 PORTGS129-1	8.5	-	-	6.9	<b>7.7</b>	-	-	-	-	-	-	3.9	2.8	-	4.0	<b>3.6</b>	-	-	-	-	-	-	-	-	-
17 TXNS102	6.7	3.1	6.6	5.5	<b>5.5</b>	5.7	6.4	7.3	-	<b>6.5</b>	3.0	4.6	3.5	4.9	4.0	<b>4.0</b>	3.3	5.0	4.3	4.0	5.0	4.5	-	-	<b>4.3</b>
18 TXNS296	7.2	3.5	7.1	6.4	<b>6.1</b>	6.4	6.2	7.7	-	<b>6.8</b>	4.0	5.0	3.5	4.5	4.0	<b>4.2</b>	4.0	5.0	4.0	4.8	5.0	4.8	-	-	<b>4.6</b>
<b>Location Means</b>	8.2	3.8	5.9	6.7	<b>6.3</b>	8.4	7.3	8.4	9.2	<b>8.2</b>	3.8	4.6	3.4	4.0	3.8	<b>3.9</b>	3.7	4.9	4.0	4.2	4.8	4.2	3.0	4.1	<b>4.1</b>

TABLE 9: 2000 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 R. BURBANK	3.9 <sub>ELT 2.5</sub>	3.5 <sub>AB 2.5</sub>	3.6 <sub>ELT 2.3</sub>	2.1 <sub>KIM 1.5 WRD 1.3</sub>	5.0	5.0	3.4	4.8	5.0
2 RANGER R.	5.0	4.0 <sub>KLM 2.5</sub>	5.0	3.6 <sub>KIM 2.3</sub>	5.0	4.7 <sub>WRD 3.7</sub>	3.7	4.9	4.4
3 R. NORKOTAH	5.0	4.9	5.0	4.8	5.0	4.9	3.9	4.7	5.0
4 SHEPODY	4.8	-	4.9	-	5.0	-	-	3.6 <sub>ELT 1.0</sub>	-
5 A8792-1	4.3	3.3 <sub>KLM 2.3 KIM 2.5</sub>	4.9	4.9	4.9	4.6	3.7	4.9	4.5
6 A8893-1	4.6	4.4	5.0	4.7	4.7	3.8 <sub>HRM 2.8</sub>	3.6	4.8	5.0
7 A9014-2	4.8	4.6	4.8	4.3	4.8	3.9 <sub>HRM 2.3</sub>	3.5	4.9	5.0
8 A9045-7	4.8	3.7 <sub>KLM 2.3</sub>	4.9	4.5	5.0	4.8	3.6	4.7	4.6
9 A90586-11	5.0	4.4	4.5	3.7 <sub>KIM 2.8</sub>	5.0	4.5	4.0	3.4 <sub>ELT 1.0</sub>	4.5 <sub>AB 3.0</sub>
10 AC87079-3	5.0	4.4	5.0	4.6	5.0	4.4	3.7	5.0	4.6
11 AC87138-4	4.4	3.6 <sub>KIM 1.8 HRM 2.4</sub>	4.6	4.0	5.0	5.0	4.1	4.8	4.5
12 AC89536-5	4.7	4.3	5.0	4.6	4.8	4.9	3.9	5.0	4.9
13 ATX9202-3RU	4.7	4.1	-	4.7	4.6 <sub>HRM 3.5</sub>	4.2	3.5	4.8	4.9
14 PORTGNP3-138	4.9	-	5.0	-	5.0	-	-	4.9	-
15 PORTGS124-1	4.9	-	4.8	-	5.0	-	-	2.9 <sub>ELT 1.0</sub>	-
16 PORTGS129-1	4.8	-	4.0	-	5.0	-	-	4.4	-
17 TXNS102	4.8	4.7	4.8	4.6	5.0	5.0	3.8	4.8	4.8
18 TXNS296	4.9	4.7	3.8 <sub>ELT 2.5</sub>	4.7	5.0	5.0	3.8	4.6	4.9
<b>Entry Means</b>	4.7	4.2	4.7	4.3	4.9	4.6	3.7	4.5	4.8

<sup>1</sup>All scores [1-5(none)]. Individual trial sites with 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: 2000 Western Regional Potato Variety Trial - INTERNAL DEFECTS MEANS OF LOCATIONS - HOLLOW HEART/BROWN CENTER, INTERNAL BROWN SPOT, 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)]		ID <sup>1</sup>
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	
1 R. BURBANK	16 <sub>ELT 72</sub>	15 <sub>KLM 65</sub>	3	5	2	0	3.3 <sub>HRM 2.0</sub>	3.1 <sub>HRM 2.0</sub>	2.3
2 RANGER R.	2	2	2	2	3	3 <sub>HRM 14</sub>	4.0	4.4	1.7
3 R. NORKOTAH	2	3	2	3	1	1	4.5	4.4	2.0
4 SHEPODY	1	-	1	-	6	-	4.5	-	-
5 A8792-1	1	7	0	4	0	4	3.5 <sub>HRM 2.0</sub>	4.4	2.8
6 A8893-1	6 <sub>KRN 25</sub>	8	6 <sub>KRN 25</sub>	0	2	1	4.0	4.2	2.3
7 A9014-2	1	8	0	4 <sub>KRN 25</sub>	3	0	3.2 <sub>HRM 2.0</sub>	3.9	3.2
8 A9045-7	1	1	0	0	2	1	4.0	3.6 <sub>WRD 1.9</sub>	2.4
9 A90586-11	0	2	2	3	0	1	4.0	3.6	1.9
10 AC87079-3	0	17 <sub>AB 48</sub>	0	2	0	1	-	4.0	2.5
11 AC87138-4	1	14 <sub>AB 53</sub>	0	0	1	1	3.5 <sub>HRM 2.0</sub>	3.0 <sub>HRM 2.0 SLV 2.1</sub>	1.2
12 AC89536-5	1	6	0	3	4	2	4.0	4.6	2.7
13 ATX9202-3RU	0	0	0	4 <sub>KRN 25</sub>	2	1	3.5 <sub>HRM 2.0</sub>	3.4	1.3
14 PORTGNP3-138	0	-	0	-	1	-	4.4	-	-
15 PORTGS124-1	2	-	0	-	13	-	4.0	-	-
16 PORTGS129-1	3	-	0	-	19	-	4.5	-	-
17 TXNS102	2	5	2	0	1	1	3.5 <sub>HRM 2.0</sub>	4.6	2.3
18 TXNS296	0	3	0	0	1	0	3.9	4.5	2.2
<b>Entry Means</b>	2	6	1	2	3	1	3.9	4.0	2.2

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

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

TABLE 11: 2000 Western Regional Potato Variety Trial - FRENCH FRY COLOR (0-4.0(darkest)), AND PERCENT SUGAR ENDS

No. Clone	Field Fry				Fry 45							Fry 40			% Sugar Ends					
	CO	OR	OR	Entry	CO	ID		OR			Entry	ID		Entry	ID		OR		Entry	
	SLV	HRM	MAL	Mean	SLV	AB	KIM	HRM	KLM	MAL	Mean	AB	KIM	Mean	AB	KIM	HRM	KLM	Mean	
	L	E	E		L	L	L	L	L	L		L	L		L	L	E	L	L	
1 R. BURBANK	2.0	0.2	1.5	<b>1.2</b>	2.0	1.1	1.2	1.6	1.0	1.5	<b>1.4</b>	3.5	3.8	<b>3.7</b>	62	25	0	3	40	<b>23</b>
2 RANGER R.	3.0	0.1	0.1	<b>1.1</b>	4.0	1.1	1.0	1.5	1.0	0.5	<b>1.5</b>	3.5	3.5	<b>3.5</b>	46	42	0	0	10	<b>22</b>
3 R. NORKOTAH	2.0	0.3	2.5	<b>1.6</b>	2.0	1.5	1.1	2.1	2.0	3.0	<b>2.0</b>	4.0	4.0	<b>4.0</b>	42	38	0	10	20	<b>23</b>
4 SHEPODY	-	0.0	1.0	<b>0.5</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 A8792-1	-	0.0	0.0	<b>0.0</b>	-	0.1	0.3	0.6	0.0	0.5	<b>0.3</b>	2.2	3.4	<b>2.8</b>	13	15	0	0	0	<b>7</b>
6 A8893-1	-	0.0	0.5	<b>0.3</b>	-	0.5	0.4	0.6	0.5	1.5	<b>0.7</b>	2.9	3.4	<b>3.2</b>	29	0	0	0	10	<b>7</b>
7 A9014-2	-	0.0	0.0	<b>0.0</b>	-	0.1	0.1	0.3	0.0	0.0	<b>0.1</b>	1.6	1.9	<b>1.8</b>	19	21	0	0	0	<b>10</b>
8 A9045-7	-	0.6	1.0	<b>0.8</b>	-	1.6	1.4	1.9	1.0	1.0	<b>1.4</b>	3.7	3.4	<b>3.6</b>	0	4	0	0	0	<b>1</b>
9 A90586-11	-	0.2	0.5	<b>0.4</b>	-	1.6	1.1	2.2	1.5	1.5	<b>1.6</b>	3.9	3.6	<b>3.8</b>	21	13	0	8	0	<b>11</b>
10 AC87079-3	2.0	-	-	<b>2.0</b>	2.0	0.8	1.3	1.4	2.0	1.0	<b>1.4</b>	3.3	3.7	<b>3.5</b>	38	9	-	5	0	<b>17</b>
11 AC87138-4	1.0	0.4	1.5	<b>1.0</b>	1.0	0.4	0.4	1.7	0.5	1.0	<b>0.8</b>	3.6	3.3	<b>3.5</b>	71	23	0	15	30	<b>27</b>
12 AC89536-5	3.0	0.0	0.1	<b>1.0</b>	4.0	0.9	1.4	1.0	1.5	0.5	<b>1.6</b>	2.7	2.9	<b>2.8</b>	9	21	0	0	0	<b>8</b>
13 ATX9202-3RU	3.0	0.0	0.1	<b>1.0</b>	3.0	0.2	0.3	0.6	1.0	0.5	<b>0.9</b>	2.4	2.7	<b>2.6</b>	4	0	0	3	0	<b>2</b>
14 PORTGNP3-138	-	0.3	2.5	<b>1.4</b>	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	<b>0</b>
15 PORTGS124-1	-	0.0	0.5	<b>0.3</b>	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	<b>0</b>
16 PORTGS129-1	-	0.0	1.0	<b>0.5</b>	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	<b>0</b>
17 TXNS102	2.0	0.3	2.0	<b>1.4</b>	2.0	1.5	1.3	2.0	1.5	-	<b>1.7</b>	3.8	4.0	<b>3.9</b>	46	50	0	5	50	<b>25</b>
18 TXNS296	2.0	0.3	2.5	<b>1.6</b>	2.0	1.4	1.7	2.1	2.0	-	<b>1.8</b>	3.9	3.8	<b>3.9</b>	42	29	0	15	30	<b>22</b>
<b>Location Means</b>	<b>2.2</b>	<b>0.2</b>	<b>1.0</b>	<b>0.9</b>	<b>2.4</b>	<b>0.9</b>	<b>0.9</b>	<b>1.4</b>	<b>1.1</b>	<b>1.0</b>	<b>1.2</b>	<b>3.2</b>	<b>3.4</b>	<b>3.3</b>	<b>32</b>	<b>21</b>	<b>0</b>	<b>5</b>	<b>14</b>	<b>12</b>

TABLE 12: 2000 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No. Clone	Vert. Wilt/Early Dying		Early Blight <sup>1</sup> (0-9) <sup>5</sup>	Late Blight <sup>3</sup>		Common Scab <sup>1</sup> Percent <sup>6</sup>	Severe Leafroll		Early Blight <sup>1</sup> Tuber (0-5) <sup>7</sup>	Fusarium Dry Rot <sup>1</sup> (0-5) <sup>7</sup>	Erwinia Soft Rot <sup>1</sup> (0-5) <sup>7</sup>	Metribuzin Reaction <sup>4</sup> % Injury
	AB <sup>1</sup> (0-9) <sup>5</sup>	HRM <sup>2</sup> (0-9) <sup>5</sup>		Foliar (0-9) <sup>5</sup>	Tuber % by Wt.		% Net Necrosis <sup>6</sup> AB (99)	HRM <sup>2</sup>				
1 R. BURBANK	7.7	7.0	5.7	9.0	18	0	12	30	1.0	4.6	4.3	30
2 RANGER R.	3.0	6.0	4.7	9.0	30	57	3	38	1.6	4.4	2.9	-
3 R. NORKOTAH	8.7	8.0	7.5	9.0	13	8	3	5	1.3	3.9	3.3	40
4 SHEPODY	5.7	-	5.8	9.0	15	49	20	-	1.3	2.8	3.7	98
5 A8792-1	2.7	5.0	4.8	9.0	0	0	48	39	1.0	2.3	2.3	8
6 A8893-1	7.8	5.0	6.0	9.0	20	0	2	18	2.7	3.2	2.7	10
7 A9014-2	4.7	4.0	6.3	9.0	3	2	0	16	1.7	2.6	2.9	20
8 A9045-7	3.0	5.0	4.0	9.0	5	19	0	21	1.0	4.5	3.0	8
9 A90586-11	1.3	3.0	3.5	5.5	0	50	2	18	1.2	3.5	3.0	15
10 AC87079-3	1.2	9.0	2.3	9.0	8	48	0	41	1.1	3.0	2.2	18
11 AC87138-4	2.9	8.0	3.9	9.0	-	13	0	5	1.9	3.7	3.0	5
12 AC89536-5	5.3	7.0	5.5	9.0	13	0	-	18	-	-	3.2	15
13 ATX9202-3RU	4.7	7.0	5.7	9.0	28	0	-	23	-	-	3.7	20
14 PORTGNP3-138	-	-	-	9.0	15	-	-	-	-	-	-	-
15 PORTGS124-1	-	-	-	9.0	13	-	-	-	-	-	-	-
16 PORTGS129-1	-	-	-	9.0	30	-	-	-	-	-	-	-
17 TXNS102	8.2	7.0	8.0	9.0	20	2	3	13	1.0	-	3.9	-
18 TXNS296	8.3	7.0	7.3	9.0	28	3	6	19	1.0	-	3.4	-
<b>Entry Means</b>	5.0	6.3	5.4	8.8	15.2	17	18	22	1.4	3.5	3.2	24
<b>LSD (.05)</b>	<b>1.5</b>		<b>1.7</b>			<b>16</b>			<b>0.8</b>	<b>0.7</b>		

<sup>1</sup> Evaluations made at Aberdeen, Idaho by Dennis Corsini.

<sup>2</sup> Evaluations made at Hermiston, Oregon by Dan Hane.

<sup>3</sup> Evaluations made at Corvallis, Oregon by Al Mosley.

<sup>4</sup> Evaluations made at Aberdeen, Idaho by Steve Love; % of foliage showing typical symptoms after 1.0 lb ai/A metribuzen applied post emergence.

<sup>5</sup> 0 - 9 scale 0 = none 9 = >90% dead or dying.

<sup>6</sup> % serious tuber defect = greater than 10% of tuber involved.

<sup>7</sup> 0 - 5 scale 0 = none 5 = most of tuber rotted.

TABLE 13: 2000 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/100gFWB) <sup>1</sup>
		Dextrose (%FWB) <sup>1</sup>	Sucrose (%FWB) <sup>1</sup>			
1 RUSSET BURBANK	21.9	0.08	0.18	5.1	22.7	6.3
2 RANGER RUSSET	23.8	0.11	0.25	5.5	36.6	7.0
3 RUSSET NORKOTAH	21.0	0.09	0.17	5.1	26.7	2.1
5 A8792-1	25.7	0.07	0.31	6.6	19.9	1.9
6 A8893-1	21.8	0.06	0.20	7.3	26.1	9.0
7 A9014-2	24.5	0.03	0.46	7.1	31.8	1.1
8 A9045-7	24.6	0.11	0.23	5.2	27.6	4.5
9 A90586-11	25.7	0.10	0.38	6.5	32.7	13.2
10 AC87079-3	23.8	0.12	0.21	5.1	38.8	4.8
11 AC87138-4	22.3	0.11	0.25	5.7	25.5	4.4
12 AC89536-5	22.3	0.06	0.16	5.8	44.4	3.0
13 ATX9202-3RU	22.2	0.04	0.22	5.9	31.7	34.4
17 TXNS102	20.6	0.11	0.17	5.3	25.9	2.8
18 TXNS296	20.3	0.10	0.18	5.8	24.3	3.1
<b>Entry Means</b>	22.9	0.09	0.24	5.9	29.6	7.0

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

<sup>2</sup> Glycoalkaloids: The 2000 Lenape check from Aberdeen was 22.9 mg/100g

TABLE 14: 2000 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Process						Fresh										
	CO	ID		OR		Entry	CA	CO	ID		OR		TX		Entry		
	SLV	AB	KIM	HRM			TUL	SLV	AB	KIM	HRM		DAL	SPR		Mean/Rank	
L	L	L	E	L	Mean/Rank	L	L	L	L	E	L	E	E	Mean/Rank			
1 R. BURBANK	4.0	3.0	3.0	4.0	3.0	<b>3.4</b>	<b>4</b>	3.8	2.0	2.0	1.8	2.0	3.0	2.0	2.2	<b>2.3</b>	<b>15</b>
2 RANGER R.	1.0	3.5	3.0	4.5	4.0	<b>3.2</b>	<b>5</b>	3.8	3.0	3.0	3.0	3.0	4.0	3.1	2.8	<b>3.2</b>	<b>8</b>
3 R. NORKOTAH	4.0	1.0	1.5	1.0	1.0	<b>1.7</b>	<b>12</b>	4.0	4.0	3.5	4.0	4.0	3.0	3.2	3.5	<b>3.7</b>	<b>5</b>
4 SHEPODY	-	-	-	4.0	-	-	-	-	-	-	-	1.0	-	3.3	2.8	<b>2.4</b>	<b>14</b>
5 A8792-1	-	4.5	4.0	4.0	4.0	<b>4.1</b>	<b>2</b>	3.7	-	3.8	3.8	2.0	1.0	2.9	3.1	<b>2.9</b>	<b>12</b>
6 A8893-1	-	4.0	3.5	2.0	3.0	<b>3.1</b>	<b>6</b>	4.0	-	4.5	3.8	2.0	1.0	3.5	3.1	<b>3.1</b>	<b>11</b>
7 A9014-2	-	4.7	4.0	4.0	5.0	<b>4.4</b>	<b>1</b>	3.8	-	3.8	3.8	4.0	5.0	3.7	3.3	<b>3.9</b>	<b>2</b>
8 A9045-7	-	3.5	3.2	5.0	3.0	<b>3.7</b>	<b>3</b>	2.5	-	3.8	4.0	5.0	3.0	3.2	3.0	<b>3.5</b>	<b>6</b>
9 A90586-11	-	3.0	3.0	3.0	2.0	<b>2.8</b>	<b>10</b>	3.5	-	2.5	2.5	3.0	1.0	2.8	2.7	<b>2.6</b>	<b>13</b>
10 AC87079-3	4.0	2.0	2.0	-	1.0	<b>2.3</b>	<b>11</b>	3.3	5.0	3.5	3.8	-	1.0	3.2	2.4	<b>3.2</b>	<b>9</b>
11 AC87138-4	4.0	2.0	2.0	4.0	3.0	<b>3.0</b>	<b>8</b>	4.0	3.0	3.0	2.3	4.0	3.0	3.1	2.7	<b>3.1</b>	<b>10</b>
12 AC89536-5	1.0	3.0	2.0	4.5	5.0	<b>3.1</b>	<b>7</b>	4.0	4.0	4.0	3.8	4.0	5.0	3.1	2.8	<b>3.8</b>	<b>3</b>
13 ATX9202-3RU	1.0	2.5	3.0	4.5	4.0	<b>3.0</b>	<b>8</b>	4.5	4.0	3.0	3.8	2.0	4.0	3.8	2.9	<b>3.5</b>	<b>6</b>
14 PORTGNP3-138	-	-	-	1.0	-	-	-	-	-	-	-	3.0	-	-	-	-	-
15 PORTGS124-1	-	-	-	4.0	-	-	-	-	-	-	-	1.0	-	-	-	-	-
16 PORTGS129-1	-	-	-	3.0	-	-	-	-	-	-	-	1.0	-	-	-	-	-
17 TXNS102	3.0	1.0	1.0	2.0	1.0	<b>1.6</b>	<b>13</b>	4.0	4.0	4.0	3.0	4.0	4.0	3.6	3.5	<b>3.8</b>	<b>4</b>
18 TXNS296	3.0	1.0	1.5	1.0	1.0	<b>1.5</b>	<b>14</b>	4.3	5.0	4.5	3.3	4.5	4.0	3.2	3.5	<b>4.0</b>	<b>1</b>
<b>Location Means</b>	2.8	2.8	2.6	3.3	2.9	<b>2.9</b>		3.8	3.8	3.5	3.3	2.9	3.0	3.2	3.0	<b>3.3</b>	





TABLE 16: 2000 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES

Clone	1996						1997						2000					
	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	
A8792-1	551 (3/14)	439 76	1.085	0.9	3.4	3.0	634 (2/17)	510 80	1.089	0.9	3.0	4.3	609 (2/14)	462 75	1.089	0.3	2.9	4.1
R. BURBANK	509 (8/14)	348 68	1.080	1.5	2.6	3.2	538 (11/17)	354 67	1.082	1.6	2.7	3.2	568 (5/14)	330 59	1.081	1.4	2.3	3.4
<b>Trial Mean</b>	503	397 79	1.080	1.6	3.3	3.2	548	441 80	1.081	1.9	3.2	2.7	529	410 77	1.082	1.2	3.3	2.9

Clone	3 Year Average (1996, 1997, 2000)						
	Total Yield <sup>1</sup>	US #1 Yield <sup>1</sup> & %	SG	FRY 45	Merit Score Fresh Proc		
A8792-1	598	470 77	1.088	0.7	3.1	3.8	
R. BURBANK	538	344 65	1.081	1.5	2.5	3.3	
<b>Trial Mean<sup>2</sup></b>	527	416 79	1.081	1.6	3.3	2.9	

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

<sup>2</sup> Mean of all trial entries 1996, 1997, 2000.