

2000 WESTERN REGIONAL CHIPPING POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California
Colorado
Idaho

Oregon
Texas
Washington

2000 WESTERN REGIONAL CHIPPING POTATO VARIETY TRIAL REPORT

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Compiled by Peggy Bain

TABLE 1: 2000 Western Regional Chipping Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

Locations	Cooperators	Trial	Irrigation	Fertilizer N-P-K-S(lb/A)	Planting Date	Vine Kill Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Insecticides	Fungicides
Kern Co. California (CA)	R. Voss, H. Phillips J. Nunez	Early	Sprink.	270-0-0-0	10-Feb	--	15-Jun	--	126		None	Bravo
San Luis Valley Colorado (CO)	D. Holm F. Popiel	Late	Pivot	160-150-60-0	17-May	31-Aug	27-Sep	106	133	Dual Sencor Poast	Thiodan Fulfil Asana	Bravo Super Tin Quadris, Dithane
Aberdeen Idaho (ID)	S. Love, R. Novy, D. Corsini T. Salaiz P. Bain	Late	Sprink.	240-150-50-0	27-Apr	8-Sep	23-Sep	134	149	Sencor Matrix Eptam	Admire Fulfil	Bravo
Corvallis Oregon (CV)	A Mosley S. Yilma	Late	Sprink.	150-150-150-90	19-May	28-Aug	15-Sep	101	119	Prowl Matrix	Di-systom Provado	Bravo Quadris Dithane
Hermiston Oregon (HRE)	D. Hane, F. Rhodes	Early	Pivot	--	20-Mar	--	11-Jul	--	113		Admire	
Hermiston Oregon (HRL)	D. Hane, F. Rhodes	Late	Pivot	--	3-Apr	20-Aug	12-Sep	139	162		Admire	
Klamath Falls Oregon (KF)	K. Rykbost, B. Charlton	Late	Sprink.	160-80-80-140	17-May	15-Sep	29-Sep	121	135	Dual Prowl	DiSyston Monitor	Tops MZ Dithane Ridomil NuCop
Springlake Texas (TX)	J. C. Miller, Jr. J. Koym, D. Schuering	Early	Pivot	160-33-63-0	11-Mar	3-Jul	16-Jul	114	127	Prowl Sencor Roundup	Admire	Tops MZ Seed trt.
Othello Washington (WA)	R. Thornton R. Knowles G. Newberry	Late	Sprink.	294-195-300-0	24-Apr	18-Aug	6-Sep	116	135	Eptam Matrix	Success Fulfil Comite	Chlorlthalonil Dithane Quadras

TABLE 2: 2000 Western Regional Chipping Potato Variety Trial - CLONE, PARENTS, ENTERED BY, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS, METRIBUZIN REACTION

No	Clone	Parents	Flower Color	Entered by	Year in Trial	Seed Source	Mean Stand %	Tuber		Vine		Metr. Reaction AB ¹
								Shape	Skin	Size	Maturity	
1	ATLANTIC	WAUSEON B5141-6	V Lt Red-purple	Check	Ck	OR	95	Round	White	Medium	Med-early	S
2	CHIPETA	WNC612-13 WISCHIP	Med Red-purple	Check	Ck	CO	98	Oval	Buff	Large	Late	VR
3	A90467-14	ATD180-4 A80559-2	White	ID	3	OR	96	Round	Buff	Large	Late	VR
4	A90490-1	NDA2126-6 CHIPETA	White	ID	1	ID	97	Oval	Buff	Large	Med-late	VR
5	A91790-13	CHIPETA NDO1496-1	V Lt Red-purple	ID	1	ID	100	Round	White	Medium	Medium	VR
6	AC87340-2	NDA2031-2 SPARTAN PEARL	V Lt Red-purple	CO	3	OR	95	Round	White	Med-small	Med-early	MR
7	AC89653-3	NDA2031-2 SPARTAN PEARL	White	CO	2	OR	99	Oval	White	Med-small	Medium	MR
8	AO91812-1	NDA2031-2 A86463-3	V Lt Red-purple	OR	3	OR	93	Oval	White	Medium	Med-late	MR
9	NDTX4930-5W	ND860-2 A7961-1	V Lt Red-purple	TX	1	CO	99	Oval	White	Med-small	Medium	VR

¹ Metribuzin Reaction measured at Aberdeen, ID

VR=very resistant, R=Resistant, MR=Moderately resistant, MS=moderately susceptible, S=susceptible VS=very susceptible.

TABLE 3: 2000 Western Regional Chipping Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY AND LATE HARVEST

No.	Clone	Total Yield - Early Harvest (CWT/A)				Entry Mean	Rank	Total Yield - Late Harvest (CWT/A)						Entry Mean	Rank
		CA	HRE	TX				CO ¹	CV	ID	KF	HRL	WA		
1	ATLANTIC	524	423	298	415	4	468	379	382	607	431	493	458	9	
2	CHIPETA	499	368	297	388	6	546	452	640	679	915	621	661	1	
3	A90467-14	461	344	146	317	9	-	351	536	582	534	493	499	7	
4	A90490-1	482	383	297	387	7	-	398	623	662	843	553	616	3	
5	A91790-13	536	381	259	392	5	-	488	560	660	862	574	629	2	
6	AC87340-2	574	456	312	447	2	481	336	474	523	486	535	471	8	
7	AC89653-3	565	532	315	471	1	495	387	582	601	696	643	582	4	
8	AO91812-1	515	369	270	385	8	-	326	473	598	740	522	532	6	
9	NDTX4930-5W	380	489	396	422	3	456	427	473	641	588	720	570	5	
Location Means		504	416	288	403		489	394	527	617	677	573	558		
LSD (.05)					NS								98		

¹ Excluded from means due to missing entries.

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

No.	Clone	U.S. No. 1's - Early Harvest (CWT/A)				U.S. No. 1's - Late Harvest (CWT/A)								
		CA	% HRE	TX	Entry Mean	Rank	CO ¹	CV	ID	% KF	HRL	WA	Entry Mean	Rank
1	ATLANTIC	504	291	217	337	3	413	302	297	545	361	400	381	8
		96	69	73	79	3	88	79	78	90	84	81	82	2
2	CHIPETA	477	230	259	322	4	415	261	514	586	819	487	533	1
		95	62	87	81	2	76	56	80	86	90	78	78	6
3	A90467-14	418	149	61	209	9	-	179	439	511	439	363	386	7
		91	43	42	59	8	-	51	82	88	82	74	75	7
4	A90490-1	461	245	226	311	5	-	296	496	585	771	458	521	2
		96	64	76	79	4	-	75	80	88	91	83	83	1
5	A91790-13	508	192	157	286	6	-	349	386	498	720	365	464	4
		95	50	61	69	6	-	70	69	75	84	64	72	8
6	AC87340-2	553	301	211	355	1	413	233	353	459	416	430	378	9
		96	66	68	77	5	86	67	74	88	86	80	79	4
7	AC89653-3	514	234	105	284	7	368	237	382	487	522	447	415	6
		91	44	33	56	9	74	61	66	81	75	69	70	9
8	AO91812-1	494	195	145	278	8	-	204	401	512	651	377	429	5
		96	53	54	68	7	-	63	85	86	88	72	79	5
9	NDTX4930-5W	359	372	332	354	2	397	308	379	564	535	582	474	3
		94	73	84	84	1	87	72	80	88	91	81	82	2
Location Means		476	245	190	304		401	263	405	527	582	434	442	
		94	58	64	72		82	66	77	86	86	76	78	
LSD (.05)					NS								101	

¹ Excluded from means due to missing entries.

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

No.	Clone	U.S. No. 1's > 10/12 OZ - Early Harvest (CWT/A)					U.S. No. 1's > 10/12 OZ - Late Harvest (CWT/A)							
		CA	% HRE	TX	Entry Mean	Rank	CO ¹	CV	ID	% KF	HRL	WA	Entry Mean	Rank
1	ATLANTIC	48	46	17	37	3	118	127	58	271	95	248	160	4
		9	11	6	9	3	25	34	15	45	22	50	33	3
2	CHIPETA	42	35	73	50	2	194	98	303	207	668	317	319	1
		8	10	25	14	1	36	22	47	30	73	51	45	1
3	A90467-14	19	2	0	7	7	-	73	103	193	169	77	123	6
		4	1	0	2	7	-	21	19	33	32	16	24	6
4	A90490-1	30	21	36	29	4	-	70	234	167	474	233	236	2
		6	5	12	8	4	-	18	38	25	56	42	36	2
5	A91790-13	24	6	4	11	6	-	35	33	76	181	49	75	8
		4	2	1	2	6	-	7	6	12	21	8	11	8
6	AC87340-2	28	12	19	20	5	120	34	44	94	83	121	75	7
		5	3	6	5	5	25	10	9	18	17	23	15	7
7	AC89653-3	0	0	0	0	9	37	11	15	58	45	55	37	9
		0	0	0	0	9	7	3	3	10	6	9	6	9
8	AO91812-1	6	7	4	6	8	-	81	167	114	216	156	147	5
		1	2	1	1	8	-	25	35	19	29	30	28	5
9	NDTX4930-5W	15	76	87	59	1	138	77	121	178	232	312	184	3
		4	16	22	14	2	30	18	26	28	39	43	31	4
Location Means		24	23	27	24		121	67	120	151	240	174	151	
LSD (.05)		5	6	8	6		25	18	22	24	33	30	25	
					31								111	

¹ Excluded from means due to missing entries.

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

No.	Clone	Yield < 4 OZ - Early Harvest (CWT/A)				Yield < 4 OZ - Late Harvest (CWT/A)								
		CA	% HRE	TX	Entry Mean	Rank	CO ¹	CV	ID	% KF	HRL	WA	Entry Mean	Rank
1	ATLANTIC	16	106	81	68	4	51	22	57	40	69	55	49	3
		3	25	27	18	3	11	6	15	7	16	11	11	5
2	CHIPETA	18	98	39	52	1	62	31	21	31	26	37	29	1
		4	27	13	15	2	11	7	3	5	3	6	5	1
3	A90467-14	38	190	83	104	8	-	32	60	43	70	76	56	6
		8	55	57	40	8	-	9	11	7	13	15	11	5
4	A90490-1	17	107	71	65	3	-	48	40	64	64	53	54	5
		4	28	24	19	4	-	12	6	10	8	10	9	3
5	A91790-13	23	184	101	103	7	-	86	151	162	136	196	146	9
		4	48	39	30	6	-	18	27	25	16	34	24	9
6	AC87340-2	19	146	100	88	5	61	57	103	60	64	79	73	7
		3	32	32	22	5	13	17	22	11	13	15	16	7
7	AC89653-3	45	289	210	181	9	123	94	174	104	155	139	133	8
		8	54	67	43	9	25	24	30	17	22	22	23	8
8	AO91812-1	19	157	125	100	6	-	27	36	68	70	65	53	4
		4	43	46	31	7	-	8	8	11	9	12	10	4
9	NDTX4930-5W	13	104	61	59	2	53	46	58	38	50	35	45	2
		3	21	16	13	1	12	11	12	6	9	5	9	2
Location Means		23	153	97	91		70	49	78	68	78	82	71	
LSD (.05)		5	37	36	26		14	12	15	11	12	14	13	
LSD (.05)					52								24	

¹ Excluded from means due to missing entries.

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

No. Clone	Specific Gravity - Early Harvest					Specific Gravity - Late Harvest							
	CA	HRE	TX	Entry Means	Rank	CO ¹	CV	ID	KF	HRL	WA	Entry Mean	Rank
1 ATLANTIC	1.087	1.086	1.082	1.085	1	1.099	1.084	1.095	1.088	1.079	1.087	1.087	3
2 CHIPETA	1.081	1.083	1.056	1.073	5	1.090	1.080	1.085	1.093	1.073	1.067	1.080	7
3 A90467-14	1.079	1.093	1.067	1.080	2	-	1.094	1.098	1.095	1.086	1.080	1.091	1
4 A90490-1	1.074	1.084	1.054	1.071	7	-	1.082	1.085	1.089	1.074	1.067	1.079	8
5 A91790-13	1.076	1.089	1.056	1.074	4	-	1.089	1.094	1.090	1.082	1.079	1.087	2
6 AC87340-2	1.070	1.077	1.059	1.069	8	1.083	1.079	1.084	1.072	1.069	1.076	1.076	9
7 AC89653-3	1.079	1.075	1.065	1.073	6	1.092	1.086	1.089	1.083	1.073	1.080	1.082	5
8 AO91812-1	1.075	1.085	1.065	1.075	3	-	1.081	1.093	1.090	1.082	1.074	1.084	4
9 NDTX4930-5W	1.071	1.075	1.057	1.068	9	1.092	1.088	1.084	1.091	1.068	1.074	1.081	6
Location Means	1.077	1.083	1.062	1.074		1.091	1.085	1.090	1.088	1.076	1.076	1.083	
LSD (.05)				0.009								0.006	

¹ Excluded from means due to missing entries.

TABLE 8: 2000 Western Regional Chipping Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

No. Clone	Average Tuber Size (oz)								Tuber Shape (1-5, 1 = round, 5 = long)					
	HRE E	TX E	Early Entry Means	CV L	ID L	HRL L	WA L	Late Entry Means	TX E	CO L	ID L	OR L	WA L	Entry Means
1 ATLANTIC	4.6	4.7	4.7	6.8	5.8	5.7	7.4	6.4	1.5	2.0	1.5	1.0	1.0	1.4
2 CHIPETA	4.5	6.4	5.5	6.5	10.5	12.6	8.3	9.5	1.9	2.0	3.0	2.0	2.0	2.2
3 A90467-14	2.9	2.9	2.9	6.2	6.6	6.2	5.4	6.1	1.9	-	1.0	1.4	1.0	1.3
4 A90490-1	4.1	4.7	4.4	5.0	8.2	8.7	7.2	7.3	2.0	-	2.0	1.8	1.0	1.7
5 A91790-13	3.1	3.4	3.3	4.1	4.6	5.8	4.1	4.7	2.0	-	1.0	1.5	1.0	1.4
6 AC87340-2	5.1	4.0	4.6	4.2	5.2	5.7	5.8	5.2	1.5	1.0	1.0	1.0	1.0	1.1
7 AC89653-3	3.2	2.7	3.0	3.5	4.5	4.9	4.9	4.5	2.1	1.0	1.5	2.2	1.8	1.7
8 AO91812-1	3.4	4.2	3.8	5.7	6.9	6.8	6.2	6.4	2.0	-	2.0	1.4	1.0	1.6
9 NDTX4930-5W	4.9	5.9	5.4	6.1	6.7	7.1	8.0	7.0	2.3	2.0	2.5	2.4	2.3	2.3
Location Means	4.0	4.3	4.2	5.3	6.6	7.1	6.4	6.3	1.9	1.6	1.7	1.6	1.3	1.6
LSD (.05)			1.4					1.5						

TABLE 9: 2000 Western Regional Chipping Potato Variety Trial - EXTERNAL DEFECTS - GROWTH CRACKS, SECOND GROWTH, SHATTER BRUISE, SCAB - MEANS OF LOCATIONS

No. Clone	Growth Cracks ¹		Second Growth ¹		Shatter Bruise ¹			Scab ¹	
	Early	Late	Early	Late	Early	Late	AB ²	Early	Late
1 ATLANTIC	4.7	4.9	5.0	5.0	4.9	5.0	3.3	5.0	3.3
2 CHIPETA	4.7	4.5	5.0	5.0	4.9	4.4	3.5	5.0	3.3
3 A90467-14	4.8	4.1	5.0	4.9	5.0	4.9	3.6	5.0	3.8
4 A90490-1	4.5	5.0	5.0	5.0	4.9	4.5	3.0	5.0	3.3
5 A91790-13	4.6	5.0	5.0	5.0	4.7	5.0	3.6	5.0	3.3
6 AC87340-2	4.8	4.8	5.0	4.7	5.0	5.0	3.4	5.0	3.3
7 AC89653-3	4.8	4.8	5.0	5.0	5.0	4.6	3.2	5.0	3.5
8 AO91812-1	4.7	4.6	5.0	5.0	5.0	5.0	3.6	5.0	3.5
9 NDTX4930-5W	5.0	5.0	5.0	4.9	5.0	4.8	2.9	5.0	2.8

¹ Score 1-5, with 1=severe, 5=none.

² Aberdeen shatter scores obtained from bruise evaluation conducted using a shatter chamber [1-5(none)].

TABLE 10: 2000 Western Regional Chipping Potato Variety Trial - INTERNAL DEFECTS - HOLLOW HEART PLUS BROWN CENTER, INTERNAL BROWN SPOT, VASCULAR DISCOLORATION/NET NECROSIS, BLACKSPOT - MEANS OF LOCATIONS

No.	Clone	Percent Hollow Heart plus Brown Center		Percent Internal Brown Spot		Percent Net Necrosis/ Vascular Discoloration		Blackspot Bruise ¹		
		Early	Late	Early	Late	Early	Late	Early	Late	AB ²
1	ATLANTIC	19.5	15.0	0.0	2.3	1.3	0.0	n/a	1.9	3.7
2	CHIPETA	1.0	3.3	0.3	1.3	1.0	1.3	n/a	5.0	3.0
3	A90467-14	0.5	16.2	0.0	0.0	0.0	1.3	n/a	4.8	3.7
4	A90490-1	3.0	10.8	1.3	0.3	0.0	0.0	n/a	5.0	3.4
5	A91790-13	0.5	1.8	0.0	0.0	0.0	1.0	n/a	4.9	3.4
6	AC87340-2	2.2	2.1	0.5	0.0	0.3	0.0	n/a	5.0	4.0
7	AC89653-3	0.0	7.0	1.5	0.8	0.5	5.2	n/a	4.7	3.9
8	AO91812-1	0.0	1.6	1.0	0.0	0.0	1.3	n/a	4.9	3.1
9	NDTX4930-5W	5.5	9.6	1.0	0.0	7.0	4.0	n/a	4.9	2.9
LSD (.05)		NS	2.0							

¹ Score 1-5, with 1=severe, 5=none.

² Aberdeen blackspot scores from an abrasive peel test [1-5(none)].

TABLE 11: 2000 Western Regional Chipping Potato Variety Trial - CHIP COLOR, AND PERCENT SUGAR ENDS

Clone	Early Harvest			Late Harvest												% Sugar Ends			
	CA	TX	HRE ¹	CO ¹				ID ¹			CV ¹		KF ^{1*}	HRL ³	HRM		ID	Means	
	Hunter Color			Chip 40		Chip 50		Chip 40		Chip 50	40	50			E	L	L		
	L ²	L ²		a	Recon ^b	c	Recon ^d	a	Recon ^b	c									
ATLANTIC	69.5	65.6	1.0	4.0	4.0	2.5	3.5	3.7	3.4	1.4	2.0	2.1	3.0	0.7	0	0	42	14	
CHIPETA	67.2	60.3	1.5	4.5	5.0	2.5	2.5	4.0	2.8	1.3	2.2	2.2	2.8	0.5	0	0	25	8	
A90467-14	69.0	65.1	1.5	-	-	-	-	2.4	1.7	1.1	2.2	1.8	2.8	0.0	0	0	0	0	
A90490-1	66.4	63.8	1.3	-	-	-	-	3.8	2.5	1.2	2.7	1.9	3.0	0.0	0	0	17	6	
A91790-13	69.8	61.3	1.8	-	-	-	-	1.9	1.0	1.0	2.1	2.0	1.8	0.0	0	0	0	0	
AC87340-2	65.8	62.5	1.5	5.0	5.0	2.5	2.5	2.8	2.4	1.0	2.3	2.0	2.0	0.3	0	0	8	3	
AC89653-3	66.3	64.8	1.3	4.5	3.5	3.0	3.5	2.8	3.0	1.3	2.1	2.0	3.0	0.4	0	0	33	11	
AO91812-1	68.9	62.0	1.5	-	-	-	-	3.4	2.7	1.3	2.2	2.0	2.3	0.4	0	0	11	4	
NDTX4930-5W	66.2	66.1	1.5	3.5	4.0	2.5	3.0	3.2	2.2	1.1	2.2	1.6	2.8	0.7	0	0	11	4	
Location Means	67.7	63.5	1.4	4.3	4.3	2.6	3.0	3.1	2.4	1.2	2.2	2.0	2.6	0.3	0	0	16		

¹ Color using Snack Food Association Frycolor Standards (1-5(darkest)).

² L=light to dark. Samples lower than 62 'L' are unacceptable.

³ USDA (00-4.0(darkest)).

^a Stored 8 weeks at 40°F.

^b Stored 8 weeks at 40°F plus 3 weeks at 60°F.

^c Stored 8 weeks at 50°F.

^d Stored 8 weeks at 50°F plus 3 weeks at 60°F.

* Klamath Falls chips were held at 40°F for a few weeks, resulting in darker chip color.

TABLE 12: 2000 Western Regional Chipping Potato Variety Trial - DISEASE EVALUATION

No. Clone	Vert. Wilt/ Early Dying		Early Blight	Late Blight		Common Scab	Leafroll Net Necrosis	Erwinia Soft Rot
	AB	HERM	AB	Foliar	Tuber	AB	HERM	AB
	0-9 ¹	0-9 ¹	0-9 ¹	1-9 ¹	% by Wt.	(%) ³	(%) ³	0-5 ²
1 ATLANTIC	6.7	7.0	6.2	9	3	9	13	2.6
2 CHIPETA	2.0	5.0	3.8	9	23	15	20	2.8
3 A90467-14	1.0	6.0	2.8	9	35	6	18	2.5
4 A90490-1	0.5	3.0	2.5	9	25	44	3	2.8
5 A91790-13	0.8	3.0	3.3	9	23	40	62	2.7
6 AC87340-2	2.7	5.0	5.7	9	28	40	0	2.9
7 AC89653-3	5.0	6.0	5.8	9	5	17	15	2.5
8 AO91812-1	0.3	5.0	2.0	9	38	34	0	3.2
9 NDTX4930-5W	6.0	4.0	5.5	9	15	70	45	3.2
MEANS	2.8	4.9	4.2	9.0	21.7	30.6	19.6	2.8
LSD @ .05	1.5		1.7			16.0		1.6

1 0 to 9 or 1-9, 0 or 1=No symptoms to a trace; 2=1-5%; 3=5-10%; 4=10-20%; 5=25-40%; 6=40-60%; 7=60-70%; 8=75-90%; 9=90-100% dead or dying with typical disease symptoms

2 0 to 5, 0=None; 1=mild symptoms, sample would not be out of grade to disease defect; 2= moderate symptoms, some culls due to disease; 3= moderately severe symptoms, sample would be out of grade due to disease defect; 4=severe symptoms, sample out of grade; 5= maximum severity, all tubers in sample showing severe symptoms.

3 Percent serious defect = more then 10% of tuber involved.

TABLE 13: 2000 Western Regional Chipping Potato Variety Trial - SOLIDS, DEXTROSE, SUCROSE, PROTEIN, VITAMIN C, AND GLYCOALKALOIDS - ABERDEEN

Clone	Solids Oven Dry (%)	Sugars		Protein (%DWB)	Vitamin C (mg/100g FWB)	Glycoalkaloids (mg/100gFWB)
		Dextrose (%FWB)	Sucrose (%FWB)			
ATLANTIC	23.7	0.01	0.16	5.9	22.2	6.5
CHIPETA	23.5	0.02	0.23	5.8	22.7	3.0
A90467-14	25.8	0.01	0.22	6.1	22.2	5.7
A90490-1	22.9	0.02	0.22	6.3	19.7	2.2
A91790-13	23.9	0.01	0.16	5.6	19.0	8.1
AC87340-2	22.1	0.01	0.13	5.8	14.0	4.9
AC89653-3	22.4	0.01	0.14	6.3	22.8	2.2
AO91812-1	24.2	0.01	0.22	5.4	15.4	2.0
NDTX4930-5W	21.9	0.00	0.18	6.3	14.1	4.0
Means	23.4	0.01	0.18	5.9	19.1	4.3

DWB = dry weight basis

FWB = fresh weight basis

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

No.	Clone	Early Process Merit			Late Process Merit				
		HRE	TX	Means	CO	KF*	ID	HRL	Means
1	ATLANTIC	1.0	4.0	2.5	2.0	3.8	3.0	1.0	2.5
2	CHIPETA	3.0	2.0	2.5	4.0	4.1	3.0	2.0	3.3
3	A90467-14	2.0	4.0	3.0	-	4.3	4.0	4.0	4.1
4	A90490-1	3.0	4.0	3.5	-	4.7	3.0	1.0	2.9
5	A91790-13	3.0	3.0	3.0	-	4.7	4.0	4.0	4.2
6	AC87340-2	4.0	3.0	3.5	4.0	4.0	3.5	2.0	3.4
7	AC89653-3	2.0	4.0	3.0	1.0	3.6	3.5	4.0	3.0
8	AO91812-1	2.0	4.0	3.0	-	4.4	3.0	4.0	3.8
9	NDTX4930-5W	1.0	4.0	2.5	3.0	3.9	3.5	1.0	2.9
Location Means		2.3	3.6	2.9	2.8	4.2	3.4	2.6	3.3

* Merit scores do not reflect fry data.

TABLE 15: 2000 Western Regional Chipping Potato Variety Trial - SUMMARY

No.	Clone	Year in Trial	Yield		% US#1's		Tuber Size		Specific Gravity		Chip Color	Merit Score		Problems
1	ATLANTIC	CK	458	medium	381 82	high	6.4	medium	87	med-high	good	2.5	fair	Hollow Heart
2	CHIPETA	Ck	661	very high	533 78	med-high	9.5	large	80	medium	good	3.3	good	
3	A90467-14	3	499	med-high	386 75	medium	6.1	medium	91	high	very good	4.1	top	Hollow Heart
4	A90490-1	1	616	very high	521 83	high	7.3	med-large	79	med-low	good	2.9	fair	
5	A91790-13	1	629	very high	464 72	medium	4.7	small	87	med-high	excellent	4.2	top	Net Necrosis
6	AC87340-2	3	471	medium	378 79	med-high	5.2	med-small	76	low	good	3.4	good	
7	AC89653-3	2	582	high	415 70	medium	4.5	small	82	medium	good	3.0	good	
8	AO91812-1	3	532	high	429 79	med-high	6.4	medium	84	medium	good	3.8	good	
9	NDTX4930-5W	1	570	high	474 82	high	7.0	med-large	81	medium	good	2.9	fair	Net Necrosis Scab

TABLE 16: 1998-2000 Western Regional Chipping Potato Variety Trial - SUMMARY OF ADVANCING CLONES

Trial Year	Clone	Yield		% US#1's			Tuber Size		Specific Gravity		Chip Color	Merit Score		Problems
		cwt/A	%	cwt/A	%	%	cwt/A	%	cwt/A	%	cwt/A	%		
2000	ATLANTIC	458	medium	381	82	high	6.4	medium	87	med-high	good	2.5	fair	Hollow Heart
2000	CHIPETA	661	very high	533	78	med-high	9.5	large	80	medium	good	3.3	good	
2000	A90467-14	499	med-high	386	75	medium	6.1	medium	91	high	very good	4.1	top	Hollow Heart
2000	AC87340-2	471	medium	378	79	med-high	5.2	med-small	76	low	good	3.4	good	
2000	AO91812-1	532	high	429	79	med-high	6.4	medium	84	medium	good	3.8	good	
99	ATLANTIC	554	high	440	80	high	5.4	medium	83	med-high	fair	2.7	fair	HH and Sugar Ends
99	CHIPETA	564	high	503	89	high	7.8	med-large	75	med-low	fair	3.5	good	Sugar Ends
99	A90467-14	479	med-high	357	73	medium	4.8	med-small	83	med-high	good	2.3	poor	
99	AC87340-2	550	high	448	81	med-high	5.3	medium	73	low	fair	3.7	good	Disease sus.
99	AO91812-1	561	high	469	84	high	6.1	medium	79	medium	fair	3.8	top	
98	ATLANTIC	385	medium	295	77	med-high	5.3	medium	83	med-high	good	2.8	good	internals
98	CHIPETA	454	med-high	363	78	med-high	7.5	large	73	med-low	good	2.6	fair	low solids
98	A90467-14	496	med-high	369	75	med-high	4.6	med-small	86	med-high	excellent	3.7	excellent	HH
98	AC87340-2	540	high	382	71	medium	4.4	med-small	74	med-low	good	2.5	good	scab
98	AO91812-1	531	high	441	83	high	6.2	med-large	83	medium	good	3.7	excellent	none

1998, 1999, 2000 Three year averages.

	Clone	Total Yield	US#1's		Tuber Size	Specific Gravity	Merit Score	Problems
			cwt/A	%				
Means	ATLANTIC	466	372	80	5.7	84	2.7	
Means	CHIPETA	560	466	82	8.3	76	3.1	
Means	A90467-14	491	371	74	5.2	87	3.4	
Means	AC87340-2	520	403	77	5.0	74	3.2	
Means	AO91812-1	541	446	82	6.2	82	3.8	