

2007
WESTERN REGIONAL CHIPPING
POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS

California
Colorado
Idaho

Oregon
Texas

2007 WESTERN REGIONAL CHIPPING POTATO VARIETY TRIAL REPORT

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Compiled by Peggy Bain

Revision - 3/7/2008

TABLE 1: 2007 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
Tulelake California (CA)	H. Carlson D. Kirby	Late	Sprink.	238N	15-May	10-Sep	1-Oct	118	139	Sencor Matrix		Bravo Dithane Quadris Maxim
San Luis Valley Colorado (CO)	D. Holm F. Goktepe	Late	Pivot	120-60-40-25	10-May	31-Aug Sulfuric Acid	25-Sep	113	138	Dual Magnum	Leverage 2.7 Actara	Bravo WS Quadris
Aberdeen Idaho (ID)	J. Stark R. Novy J. Whitworth P. Bain	Late	Sprink.	135-105-50	1-May	4-Sep Regalone	24-Sep	126	146	Sencor DF Matrix Eptam	Admire Pro	Quadris Opti Dithane F-45
Corvallis Oregon (CV)	I. Vales S. Yilma	Late	Sprink.	150-150-150-90	22-May	10-Sep Rely	25-Sep	111	126	Matrix Prowl	Platinum Provado	Bravo Dithane Quadris Curzate
Hermiston Oregon (HRL)	D. Hane, L. Leroux	Late	Pivot	285-80-0-40	11-Apr	28-Aug cut/beat/enquik	10-Sep	139	152	Matrix Eptam	Admire Asana Monitor Onager Mocap EC Monitor Onager Comite	Vapam Ridomil Gold Bravo Dithane Quadris Omega
Dalhart Texas (TX)	J. C. Miller, Jr. J. Koym D. Schuering	Early	Pivot	150-200-100	17-Apr	6-Aug mechanical	17-Sep	111	153	Sencor DF Dual Magnam Chateaux	Venom	
Othello Washington (WA)	R. Thornton R. Knowles G. Newberry E. Driskill	Late	Sprink.	251-389-241						Eptam Matrix Prowl	Success Fulfil Comite	Bravo Dithane Quadras

TABLE 2: 2007 Western Regional Chipping Potato Variety Trial - CLONE, PARENTS, ENTERED BY, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS, AND STEMS PER PLANT

No	Clone	Parents	Flower Color	Entered by	Year in Trial	Seed Source	Mean Stand %		Tuber Shape		Skin		Vine Size		Maturity	Stems/Plant
1	ATLANTIC	WAUSEON B5141-6	V Lt Red-purple	Check	Ck	TX	80	1.3	Round	1.9	White	3.0	Medium	2.6	Med Early	3.0
2	CHIPETA	WNC612-13 WISCHIP	Med Red-purple	Check	Ck	CO	97	2.0	Oval	2.2	Buff	4.2	Large	3.9	Med--late	2.6
3	IVORY CRISP	ND292-1 A77268-4	White	Check	Ck	ID	97	1.4	Round	1.5	White	3.0	Medium	3.1	Medium	3.1
4	AC97097-14W	Brodick A91746-8	Purple	CO	2	CO	96	2.5	Oblong	1.5	White	3.3	Med-large	3.1	Medium	2.5
5	CO96141-4W	BC0894-2 AC87340-2	White	CO	3	CO	98	1.9	Oval	1.4	White	2.5	Small	2.1	Early	2.6
6	CO97043-14W	AC91817-5 AC87340-2	White	CO	2	CO	97	1.4	Round	1.4	White	2.8	Medium	2.7	Med Early	2.7
7	CO97065-7W	AC92513-3 Chipeta	Red-purple	CO	2	CO	96	1.1	Round	1.7	White	2.8	Medium	2.1	Early	3.0

TABLE 3: 2007 Western Regional Chipping Potato Variety Trial - TOTAL YIELD - YIELD OF U.S. #1'S (CWT/A & %)

No. Clone	Total Yield (CWT/A)							Entry Mean	Rank	U.S. No. 1's (CWT/A) / %						Entry Mean	Rank
	CA	CO	ID	CV	HRL	TX	CA			CO	ID	CV	HRL	TX			
1 ATLANTIC	367	468	506	564	-	488	479	6	278	394	433	419	-	324	370	5	
									76	84	86	74	-	66			77
2 CHIPETA	430	563	719	711	1410	341	696	1	390	506	611	445	1309	176	573	1	
									91	90	85	63	93	52			79
3 IVORY CRISP	377	424	507	615	699	514	523	3	293	307	452	421	576	348	399	3	
									78	72	89	68	82	68			76
4 AC97097-14W	349	452	425	597	704	435	494	4	220	351	330	438	550	290	363	6	
									63	78	78	73	78	67			73
5 CO96141-4W	400	390	410	572	811	328	485	5	327	338	371	423	721	154	389	4	
									82	87	90	74	89	47			78
6 CO97043-14W	396	438	454	590	881	415	529	2	318	343	384	381	773	241	407	2	
									80	78	85	65	88	58			76
7 CO97065-7W	309	426	366	508	746	352	451	7	219	341	290	381	634	190	343	7	
									71	80	79	75	85	54			74
Location Means	375	452	484	594	875	410	532		292	369	410	415	761	246	415		
LSD (.05)							147		77	81	85	70	86	59	76	NS	

TABLE 4: 2007 Western Regional Chipping Potato Variety Trial - YIELD OF U.S. #1'S >10-12OZ. & YIELD <4OZ. (CWT/A & %)

No. Clone	U.S. No. 1's > 10/12 OZ (CWT/A) / %							Yield < 4 OZ (CWT/A) / %								
	CA	CO	ID	CV	HRL	TX	Entry Mean	Rank	CA	CO	ID	CV	HRL	TX	Entry Mean	Rank
1 ATLANTIC	28	69	91	201	-	82	94	4	86	71	49	43	-	137	77	5
	8	15	18	36	-	17	19	2	23	15	10	8	-	28	17	6
2 CHIPETA	134	170	355	262	861	23	301	1	25	36	14	31	42	141	48	7
	31	30	49	37	61	7	36	1	6	6	2	4	3	41	10	7
3 IVORY CRISP	52	40	104	129	183	100	101	3	78	116	37	55	95	147	88	2
	14	9	21	21	26	19	18	3	21	27	7	9	14	29	18	4
4 AC97097-14W	14	40	23	157	114	74	70	6	119	101	80	48	109	135	99	1
	4	9	5	26	16	17	13	6	34	22	19	8	15	31	22	1
5 CO96141-4W	51	65	16	121	202	16	79	5	71	51	33	45	74	149	71	6
	13	17	4	21	25	5	14	5	18	13	8	8	9	45	17	5
6 CO97043-14W	74	48	41	137	326	15	107	2	71	93	66	38	90	163	87	3
	19	11	9	23	37	4	17	4	18	21	15	6	10	39	18	3
7 CO97065-7W	14	32	5	75	75	42	40	7	87	82	75	47	108	111	85	4
	5	7	1	15	10	12	8	7	28	19	20	9	14	32	20	2
Location Means	52	66	91	155	294	50	118		77	78	51	44	86	140	79	
LSD (.05)	13	14	15	26	29	11	18	NS	21	18	12	8	11	35	17	23

TABLE 5: 2007 Western Regional Chipping Potato Variety Trial - SPECIFIC GRAVITY

No. Clone	Specific Gravity						Entry Mean	Rank
	CA	CO	ID	CV	HRL	TX		
1 ATLANTIC	1.107	1.102	1.097	1.073	-	1.076	1.091	1
2 CHIPETA	1.104	1.093	1.082	1.084	1.076	1.064	1.084	5
3 IVORY CRISP	1.101	1.096	1.095	1.092	1.078	1.066	1.088	3
4 AC97097-14W	1.100	1.097	1.089	1.087	1.089	1.070	1.089	2
5 CO96141-4W	1.092	1.088	1.088	1.079	1.073	1.062	1.080	7
6 CO97043-14W	1.096	1.091	1.084	1.077	1.074	1.069	1.082	6
7 CO97065-7W	1.103	1.101	1.085	1.083	1.079	1.071	1.087	4
Location Means	1.100	1.095	1.089	1.082	1.078	1.068	1.086	
LSD (.05)							0.006	

TABLE 7: 2007 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				
						Means					Means			Powdery	Common				
	CO	ID	CV	HRL	TX		CO	ID	CV	TX		HRL	TX	AB ²	HRL ³	ID	TX	Means	
1 ATLANTIC	4.0	4.8	3.0	-	5.0	4.2	5.0	5.0	5.0	5.0	5.0	-	5.0	5.0	3.1	-	2.8	5.0	3.9
2 CHIPETA	4.0	4.5	5.0	4.6	5.0	4.6	5.0	4.8	5.0	5.0	5.0	5.0	5.0	5.0	3.0	5.0	4.3	5.0	4.7
3 IVORY CRISP	5.0	5.0	4.0	4.0	5.0	4.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	2.6	3.6	3.5	5.0	4.3
4 AC97097-14W	5.0	5.0	4.0	5.0	5.0	4.8	5.0	5.0	3.0	5.0	4.5	4.8	5.0	4.9	2.1	4.8	3.3	5.0	4.2
5 CO96141-4W	5.0	5.0	2.0	4.9	5.0	4.4	5.0	5.0	1.0	5.0	4.0	5.0	5.0	5.0	3.2	4.8	3.8	5.0	4.4
6 CO97043-14W	4.0	4.8	2.0	5.0	5.0	4.2	5.0	5.0	1.0	5.0	4.0	5.0	5.0	5.0	3.3	5.0	3.3	5.0	4.2
7 CO97065-7W	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.0	5.0	4.5	5.0	5.0	5.0	2.9	5.0	3.0	5.0	4.0
MEANS						4.5					4.6			5.0	2.9				4.2

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)].

³ Hermiston, Powdery Scab

TABLE 8: 2007 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				
		CO	ID	CV	HRL	TX	Means	ID	CV	HRL	TX	Means	ID	CV	HRL	TX	Means	%	CO ¹	AB ²
1	ATLANTIC	0	65	4	-	5	19	0	4	-	13	6	0	3	-	3	2	0	2.4	4.3
2	CHIPETA	1	3	5	1	3	2	0	1	0	3	1	0	3	4	0	2	0	4.1	3.1
3	IVORY CRISP	0	5	4	0	0	2	0	1	0	0	0	0	0	4	3	2	0	3.6	4.2
4	AC97097-14W	1	43	5	10	3	12	0	5	30	0	9	0	3	1	0	1	0	3.9	3.5
5	CO96141-4W	0	0	1	0	0	0	0	4	0	0	1	0	4	2	0	2	0	3.6	3.7
6	CO97043-14W	0	3	1	1	3	2	0	5	2	0	2	0	3	1	3	2	0	4.2	3.3
7	CO97065-7W	0	0	1	5	0	1	0	1	0	0	0	0	3	3	0	2	0	4.1	3.2
MEANS							5.4					2.6					1.5	0.0	3.7	3.6
LSD (.05)							NS					NS								

¹ Score 1-5, with 1=severe, 5=none.

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

TABLE 9: 2007 Western Regional Chipping Potato Variety Trial - CHIP COLOR

Clone	CV ¹ Field	CO ¹				ID ¹			HRL ¹ 45 ^e	50 Means
		Chip 40		Chip 50		Chip 40		Chip 50		
		a	Recon ^b	c	Recon ^d	a	Recon ^b	c		
1 ATLANTIC	1.2	4.5	4.0	2.5	2.0	4.1	2.5	1.8	-	2.1
2 CHIPETA	2.1	5.0	5.0	2.5	3.0	3.7	2.3	1.7	2.6	2.3
3 IVORY CRISP	1.2	3.5	3.0	1.0	2.5	3.2	1.7	1.4	1.4	1.3
4 AC97097-14W	1.2	3.5	3.0	1.5	2.0	2.3	1.6	1.6	1.0	1.4
5 CO96141-4W	1.0	4.0	3.5	2.5	1.5	3.8	2.5	1.8	1.9	2.1
6 CO97043-14W	1.0	4.5	2.5	2.5	2.0	2.9	1.7	1.7	1.5	1.9
7 CO97065-7W	1.0	4.5	2.5	1.0	1.5	3.7	2.6	1.5	2.1	1.5
Location Means	1.2	4.2	3.4	1.9	2.1	3.4	2.1	1.6	1.8	

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

^a Stored 6-8 weeks at 40°F.

^b Stored 6-8 weeks at 40°F plus 3 weeks at 60°F.

^c Stored 6-8 weeks at 50°F.

^d Stored 6-8 weeks at 50°F plus 3 weeks at 60°F.

^e Stored 8 weeks at 45°F

TABLE 10: 2007 Western Regional Chipping Potato Variety Trial - DISEASE EVALUATIONS, METRIBUZIN REACTION

No. Clone	Vert. Wilt/ Early Dying		Early Blight	Late Blight			Corky Ringspot	Root- knot	Common Scab AB		% Net Necrosis/ vascular discoloration		% Virus Infection ⁶		Erwinia Soft Rot	Metr. Reaction
	AB	HERM		AB	Foliar				Tuber	%Serious Defect ⁵	Incidence	Serious defect ⁵	PVY	PLRV		
	0-9 ¹	0-9 ¹	0-9 ¹		CORV	AUDPC ²	CORV ³	PROSSER ⁴ (%)	(0-5)						AB	AB
1 Atlantic	6.8	--	6.0	9	--	12.1	--	--	4.3	45	53.1	0.0	--	--	0.9	S/MS
2 Chipeta	3.3	3.5	4.5	8.3	1555	17.5	7.5	S	3.0	20	57.2	1.6	60	100	2.4	R
3 Ivory Crisp	6.2	8.1	7.3	9.0	1600	67.8	47.5	S	4.7	62	53.3	5.3	80	80	2.1	--
4 AC97097-14W	6.0	5.8	6.3	9.0	1572	17.5	57.5	S	4.3	78	44.5	1.0	95	40	3.5	R
5 CO96141-4W	6.7	8.9	7.7	9.0	1600	44.2	0.0	S	5.0	71	43.8	0.0	85	95	1.1	R
6 CO97043-14W	7.3	7.6	6.8	9.0	--	27.5	42.5	S	3.7	53	44.6	0.0	100	95	0.4	R
7 CO97065-7W	8.0	8.9	7.3	9.0	--	25.0	0.0	S	4.7	75	37.1	2.1	80	90	1.5	R
MEANS	6.3	7.1	6.6	8.9	1582	30.2	25.8		4.2	58	47.7	1.4	83	83	1.7	
LSD @ .05	2.0	1.5	2.0	0.5	90	24.6			1.4	19	27.0	6.0			2.2	

¹ Evaluations by Whitworth, Hane, and Yilma; 0 to 9, Where 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 Evaluations made at Corvallis, Oregon by Solomon Yilma; AUDPC=area under the disease progress curve. Higher number indicates more disease over time.

³ Evaluations made at Corvallis, Oregon by Solomon Yilma; % of tubers examined with any late blight symptoms

⁴ Evaluations made at Prosser, Washington by Chuck Brown: S=susceptible, R= resistant

⁵ Evaluations made at Aberdeen, Idaho by Jonathan Whitworth; Percent serious defect = number of tubers with a 3 rating (0-5 scale) or higher, divided by the total number of tubers examined. Evaluations made at Hermiston, Oregon by Dan Hane; scale as indicated, highest number being most severe.

⁶ % Virus are from ELISA test of sprouts from tubers grown under high virus pressure

⁷ Evaluations made at Aberdeen, Idaho by Jonathan Whitworth; scale as indicated with highest number being most severe.

⁸ Metribuzin Reaction measured at Aberdeen, ID

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

TABLE 11: 2007 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)			
1 ATLANTIC	23.9	0.03	0.16	5.9	25.5	6.0
2 CHIPETA	21.0	0.03	0.16	6.0	25.2	2.9
3 IVORY CRISP	23.7	0.01	0.12	6.7	26.2	2.7
4 AC97097-14W	23.0	0.01	0.11	6.3	22.5	9.2
5 CO96141-4W	22.5	0.02	0.09	5.8	22.9	5.1
6 CO97043-14W	21.4	0.01	0.10	6.1	14.9	8.2
7 CO97065-7W	21.3	0.01	0.13	6.3	23.2	4.7
Means	22.4	0.02	0.12	6.2	22.9	5.5

FWB = fresh weight basis DWB = dry weight basis

Glycoalkaloids: The 2007 Lenape check from Aberdeen was 43.7 mg/100g

TABLE 12: 2007 Western Regional Chipping Potato Variety Trial - MERIT SCORES (1-5(best))

No.	Clone	Fresh Merit				Means	Processing Merit				Means
		CO	ID	CV	TX		CO	ID	CV	HRL	
1	ATLANTIC	3.0	2.5	2.8	3.9	3.1	3.0	2.5	2.6	-	2.6
2	CHIPETA	4.0	1.8	3.2	3.6	3.1	4.0	3.0	4.0	2.5	3.2
3	IVORY CRISP	1.0	2.8	3.5	4.2	2.9	2.0	3.8	4.5	3.5	3.9
4	AC97097-14W	3.0	2.8	3.5	3.5	3.2	4.0	3.2	3.0	1.0	2.4
5	CO96141-4W	2.0	3.8	4.0	3.7	3.4	3.0	2.8	4.5	3.0	3.4
6	CO97043-14W	3.0	2.5	3.5	3.4	3.1	3.0	4.0	4.5	3.0	3.8
7	CO97065-7W	3.0	2.3	4.0	3.6	3.2	5.0	2.6	4.0	3.0	3.2
Location Means		2.7	2.6	3.5	3.7		3.4	3.1	3.9	2.7	

TABLE 13: 2007 Western Regional Chipping Potato Variety Trial - SUMMARY

No.	Clone	Year in Trial	Yield Late	% US#1's	Tuber Size (oz)	Specific Gravity	Chip Color	Merit Score	Comments
1	ATLANTIC	CK	507 med-low	392 78 med-high	7.1 med-large	89 high	1.4 good	2.6 medium	Hollow Heart
2	CHIPETA	CK	749 v. high	609 76 high	8.2 large	79 medium	2.3 fair	3.2 good	vert. Res.
3	IVORY CRISP	CK	552 medium	421 76 medium	5.9 medium	85 med-high	1.3 excell.	3.9 v good	
4	AC97097-14W	2	523 medium	392 75 medium	6.2 medium	87 high	1.4 good	2.4 med-poor	poor int (HH), soft rot
5	CO96141-4W	3	502 med-low	401 77 medium	5.9 medium	78 med-low	2.1 fair	3.4 good	
6	CO97043-14W	2	556 medium	424 75 medium	6.1 medium	79 med-low	1.9 fair	3.8 v good	adhering stolens
7	CO97065-7W	2	480 low	367 75 med-low	5.3 small	83 med-high	1.5 good	3.2 good	small tubers

TABLE 14: 2007 Western Regional Chipping Potato Variety Trial - 3 YEAR SUMMARY ADVANCED CLONES

Clone	Year in Trial	Yield	Yield Late	% US#1's		Tuber Size (oz)		Specific Gravity		Chip Color		Merit Score		Comments	
ATLANTIC	2007	507	high	392	78	med-high	7.1	med-large	89	high	1.4	good	2.6	medium	Hollow Heart
ATLANTIC	2006	511	high	436	85	med-high	6.4	medium	89	high	2.5	fair	2.4	medium	Hollow Heart
ATLANTIC	2005	544	high	444	79	med-high	6.7	medium	86	high	2.3	fair	3.2	medium	Hollow Heart

CO96141-4W	2007	502	med-low	401	77	medium	5.9	medium	78	med-low	2.1	fair	3.4	good	
CO96141-4W	2006	449	medium	375	83	high	5.8	medium	78	med-low	1.5	good	3.5	good	more BS res.
CO96141-4W	2005	505	med-low	423	82	high	6.6	medium	77	high	1.8	good	3.2	medium	good internals

Comments and Information from States

Entry	Clone	Hermiston Late Trial	tubers/ plant	length/ width
1	Atlantic	.		
2	Chipeta	few knobs, attached stems, some soft rot	11.4	1.21
3	Ivory Crisp	FBE	9.4	0.94
4	AC97097-14W	soft rot, oblong	10.4	1.35
5	CO96141-4W	flat	9.8	1.13
6	CO97043-14W	smooth, attached stems	10.2	0.9
7	CO97065-7W	little FBE,	11	0.94

		Idaho Comments	tubers/ plant	length/ width
1	Atlantic	typical, scaley,	1.19	1.19
2	Chipeta	large tubers	1.36	1.36
3	Ivory Crisp	flat, stolons, scab, shattered	1.14	1.14
4	AC97097-14W	smooth, scab	1.52	1.52
5	CO96141-4W	nice, smooth, bud ends	1.40	1.40
6	CO97043-14W	flat, deep ends, stolons	1.18	1.18
7	CO97065-7W	very small	1.18	1.18

Texas Comments			Type	Vigor
1	Atlantic	nice, early, buff, nice shape and skin, yield+, large tubers, poor internals, best of trial, rough	1.65	3.925
2	Chipeta	late, very small	1.75	4.225
3	Ivory Crisp	nice, early, best of trial++, nice yield, very nice, yield+, nice tubers	2.125	3.85
4	AC97097-14W	some rot, small, late, very large tubers, oblong, lenticels, poor skin, raised lenticels	1.625	3.725
5	CO96141-4W	nice, early, very nice, best of trial, raised lenticels	1.975	3.6
6	CO97043-14W	nice, early, small, small	2.125	3.65
7	CO97065-7W	low yield, many small tubers, nice, nice shape, best of trial	1.5	3.725

Precipitation was lower than normal during the last week of April, the first three weeks of May, the first, third, and fourth weeks of June, and the second week of August. Precipitation was higher than normal during the second week of April, the second week of May, the second and fourth weeks of June, and the first week of August

Late Blight from Corvallis				
Entry	Clone		Late Blight	
			Foliage	Tubers
1	Atlantic		9	12.1
2	Chipeta		8.3	17.5
3	Ivory Crisp		9	67.8
4	AC97097-14W		9	17.5
5	CO96141-4W		9	44.2
6	CO97043-14W		9	27.5
7	CO97065-7W		9	25

1= upright, 2= semiprostrate, 3= prostrate
1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous