

2009 WESTERN REGIONAL CHIPPING POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS

California
Colorado
Idaho
Oregon
Texas



2009 WESTERN REGIONAL CHIPPING POTATO VARIETY TRIAL REPORT

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Compiled by Peggy Bain

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TABLE 1: 2009 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)	R. Wilson D. Kirby	Late	Sprink.	138-211-28-88	12-May	14-Sep	5-Oct	125	146	Matrix Metribuzin DF	Movento Avaunt	Maxim Quadris Echo 720 Manzate
San Luis Valley Colorado (CO)	D. Holm F. Goktepe	Late	Pivot	120-60-40-25	19-May	9-Sep	30-Sep	113	134	Dual Magnum	Endigo ZC Fulfill	Bravo WS Quadris
Aberdeen Idaho (ID)	J. Stark R. Novy J. Whitworth P. Bain	Late	Sprink.	185-100-80	7-May	1-Sep	24-Sep	117	140	Metri DF Matrix Eptam	Admire Pro	Dithane F-45 Equus
Klamath Falls Oregon (KF)	B. Charlton D. Culp	Late	Sprink.	170-75-100-205	19-May	11-Sep	6-Oct	115	140	Matrix MZ	Admire Pro Leverage Fumigation Vapam	Topps MZ Quadris Ridomil Gold Bravo Nemetode Vydate
Dalhart Texas (DTX)	J. C. Miller, Jr. J. Koym D. Schuering	Early	Pivot	217-220-66	29-Apr	4-Sep	28-Sep	128	152	Medal Eptam Matrix Liberate Intensity Superb Reglone Dual Sencor	Fulfill Beleaf 50 LI 700 EPI-MEK Movento Platinum Rimon	Bravo Weather Stick Echo 720 Manzate Endura Revus Top Scala SC Quadris
Springlake Texas (STX)	J. C. Miller, Jr. J. Koym D. Schuering	Early	Pivot	201-33-33-24	8-Apr	11-Aug	16-Aug	125	130	Sencor Matrix Roundup	Movento Rimon	Bravo Dithane Quadris Nu Cop

TABLE 2: 2009 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	Tuber Weight	Skin	Vine Size	Vine Maturity	Stems/Plant			
1	ATLANTIC	WAUSEON B5141-6	V Lt Red-purple	Check	Ck	CO	98	1.8	Oval	2.6	Buff	3.3	Med-large	3.1	Medium	3.0
2	CHIPETA	WNC612-13 WISCHIP	Med Red-purple	Check	Ck	CO	96	2.4	Oblong	1.3	White	4.3	Large	4.0	Med--late	3.4
3	CO00188-4W	A90490-1W BC0897-2W	Red-purple	CO	1	CO	90	1.9	Oval	1.3	White	3.0	Medium	2.3	Early	3.5
4	CO00197-3W	A91790-13W NDTX4930-5W	White	CO	1	CO	94	2.3	Oblong	1.2	White	3.3	Med-large	3.1	Medium	3.2
5	CO00270-7W	BC0894-2W A91790-13W	Red-purple	CO	1	CO	88	1.8	Oval	1.0	White	3.2	Med-large	3.2	Medium	2.7

TABLE 3: 2009 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	KF	DTX	STX			CA	CO	ID	KF	DTX	STX		
1 ATLANTIC	453	524	396	651	677	469	528	2	356	434	306	509	656	468	455	2
2 CHIPETA	459	643	605	712	631	437	581	1	327	580	553	613	611	437	520	1
3 CO00188-4W	356	456	363	532	402	359	411	5	263	377	133	393	399	358	321	5
4 CO00197-3W	407	497	434	581	594	466	497	3	277	394	278	408	463	463	380	4
5 CO00270-7W	387	436	391	459	756	365	466	4	303	383	302	347	702	363	400	3
Location Means	412	511	438	587	612	419	497		305	434	314	454	566	418	415	
LSD (.05)							82		74	85	69	77	93	99	83	90

TABLE 4: 2009 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	KF	DTX ¹	STX ¹	Entry Mean	Rank	CA	CO	ID	KF	DTX ²	STX ²	Entry Mean	Rank
1 ATLANTIC	40	102	27	33	335	150	114	2	82	82	81	90	0	1	56	3
	8	20	7	5	50	32	20	2	18	16	20	14	0	0	11	3
2 CHIPETA	187	191	110	189	380	197	209	1	32	45	46	35	0	1	26	5
	41	30	15	27	59	45	36	1	7	7	8	5	0	0	5	5
3 CO00188-4W	33	68	0	12	112	7	39	5	85	74	229	94	0	1	80	2
	9	15	0	2	28	2	9	4	24	16	63	18	0	0	20	1
4 CO00197-3W	29	95	10	8	126	72	57	4	114	99	147	128	0	4	82	1
	7	1	2	1	19	16	8	5	28	20	34	22	0	1	17	2
5 CO00270-7W	94	84	10	46	346	71	108	3	51	46	89	67	0	1	42	4
	24	19	3	10	45	20	20	3	13	11	22	15	0	0	10	4
Location Means	77	108	31	58	260	99	105		73	69	118	83	0	1	57	
LSD (.05)	18	17	5	9	40	23	19		18	14	29	15	0	0	13	
							54								36	

* 10 ounce

¹ Reported as tubers larger than 3" diameter.

² Reported as tubers smaller than 1" diameter.

TABLE 5: 2009 Western Regional Chipping Potato Variety Trial - SPECIFIC GRAVITY

No. Clone	Specific Gravity						Entry Mean	Rank
	CA	CO	ID	KF	DTX	STX		
1 ATLANTIC	1.112	1.102	1.098	1.092	1.078	1.080	1.094	1
2 CHIPETA	1.108	1.096	1.084	1.084	1.072	1.070	1.086	2
3 CO00188-4W	1.090	1.095	1.090	1.086	1.071	1.068	1.083	3
4 CO00197-3W	1.093	1.083	1.085	1.088	1.077	1.056	1.080	5
5 CO00270-7W	1.094	1.097	1.086	1.080	1.067	1.062	1.081	4
Location Means	1.099	1.095	1.089	1.086	1.073	1.067	1.070	
LSD (.05)							0.006	

TABLE 7: 2009 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								Means			
	CA	CO	ID	KF	DTX	STX		CA	CO	ID	KF	DTX	STX		CA	KF	DTX	STX	AB ²	CA	ID	DTX	STX		
1 ATLANTIC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.8	5.0	4.6	5.0	5.0	4.9	3.5	5.0	3.7	5.0	5.0	4.7
2 CHIPETA	5.0	4.0	5.0	5.0	5.0	5.0	4.8	4.0	5.0	5.0	4.6	5.0	5.0	4.8	5.0	4.6	5.0	5.0	4.9	2.8	5.0	4.3	5.0	5.0	4.8
3 CO00188-4W	4.9	4.0	5.0	4.8	5.0	5.0	4.8	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	5.0	5.0	5.0	3.1	5.0	4.5	5.0	5.0	4.9
4 CO00197-3W	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.8	5.0	5.0	5.0	5.0	5.0	3.0	5.0	2.8	5.0	5.0	4.5
5 CO00270-7W	5.0	5.0	4.5	4.0	4.3	5.0	4.6	5.0	5.0	5.0	4.6	5.0	5.0	4.9	5.0	3.8	5.0	5.0	4.7	2.1	5.0	3.0	5.0	5.0	4.5
MEANS	5.0	4.6	4.9	4.8	4.9	5.0	4.8	4.4	5.0	5.0	4.9	5.0	5.0	4.9	5.0	4.6	5.0	5.0	4.9	2.9	5.0	3.7	5.0	5.0	4.7

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 8: 2009 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	KF	CA	DTX	STX	Means	ID	KF	DTX	STX	Means	ID	KF	CA	DTX	STX	Means	% DTX	% STX	CO ¹	CA ¹	KF ¹	AB ²
1	ATLANTIC	3	7	8	0	15	15	8	0	0	13	28	10	0	3	0	3	0	1	0	0	2.6	5.0	5.0	3.7
2	CHIPETA	0	3	5	0	3	0	2	0	3	0	0	1	0	0	0	0	3	1	0	0	3.3	5.0	5.0	3.1
3	CO00188-4W	0	0	11	0	0	0	2	0	3	0	0	1	0	0	0	0	0	0	0	0	3.1	5.0	5.0	4.2
4	CO00197-3W	0	0	3	0	0	5	1	3	3	0	5	3	0	5	0	5	13	5	0	0	2.0	5.0	5.0	2.5
5	CO00270-7W	0	3	0	0	0	3	1	0	0	0	0	0	0	3	0	0	0	1	0	0	3.7	5.0	5.0	3.7
MEANS		2.8							2.9				1.4					0.0	0.0	2.9	5.0	5.0	3.4		
LSD (.05)		3.5							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: 2009 Western Regional Chipping Potato Variety Trial - CHIP COLOR

Clone	DTX ¹ Field	STX ¹ Field	CO ¹				ID ¹			50 Means
			Chip 40		Chip 50		Chip 40		Chip 50	
			^a	Recon ^b	^c	Recon ^d	^a	Recon ^b	^c	
1 ATLANTIC	1.5	1.5	4.5	4.0	3.5	4.0	3.6	2.9	1.1	2.3
2 CHIPETA	1.0	2.0	5.0	4.5	3.0	3.0	3.9	2.8	1.0	2.0
3 CO00188-4W	1.0	1.0	4.0	2.5	1.0	1.5	2.4	2.1	1.0	1.0
4 CO00197-3W	1.0	1.0	4.5	4.0	3.5	3.5	2.9	2.1	1.0	2.3
5 CO00270-7W	1.0	1.0	3.0	3.0	1.0	1.0	2.4	2.0	1.0	1.0
Location Means	1.1	1.3	4.2	3.6	2.4	2.6	3.0	2.4	1.0	

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

^a Stored 5-8 weeks at 40°F.

^b Stored 5-8 weeks at 40°F plus 3 weeks at 60°F.

^c Stored 5-8 weeks at 50°F.

^d Stored 5 weeks at 50°F plus 3 weeks at 60°F.

TABLE 10: 2009 Western Regional Chipping Potato Variety Trial - DISEASE EVALUATIONS, METRIBUZIN REACTION

No.	Clone	Vert. Wilt/ Early Dying		Early Blight	Late Blight			Corky Ringspot	Root- knot	Corky Ringspot	Common Scab AB	% Net Necrosis/ vascular discoloration		% Virus Infection ⁶		Pecto- bacterium	Metr.	
		AB	HERM	AB	CORV	CORV	CORV	Prosser ⁴ (%)	Klamath ⁴	%Serious (0-5)	Incidence	defect ⁵	PVY	PLRV	Soft Rot	AB		
		0-9 ¹	0-9 ¹	0-9 ¹	1-9 ¹	AUDPC ²	% ³			Defect ⁵	AB	AB	HRM	HRM	0-5 ⁷	AB ⁸		
1	Atlantic	4.0	--	5.3	8.5	1119	2.5	--	--	0	3.0	13.3	44	10.8	na	na	1.4	na
2	Chipeta	2.0	6.0	4.7	6.8	744	0	0.3	S	3.0	3.0	9.8	72	2.8	10	na	4.1	na
3	CO00188-4W	8.7	8.3	8.5	8.8	1077	2.5	0.0	S	5.0	3.0	6.7	20	7.4	80	na	3.8	na
4	CO00197-3W	6.0	8.3	6.7	9.0	1115	7.5	1.3	S	3.0	3.3	23.8	71	4.2	100	na	3.4	na
5	CO00270-7W	7.0	8.3	7.0	8.5	1056	7.5	0.0	S	0.0	3.3	15.7	37	3.3	100	na	3.5	na
	MEANS	5.5	7.7	6.4	8.3	1022	4	0.4	--	2.2	3.1	13.9	61	8.6	73	--	3.2	--
	LSD @ .05	2.0	ns	1.6	0.8	265	11.4	--	--	--	1.7	11.5	24	ns	--	--	1.4	--

1 Evaluations made 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. Normal readings: three yr. tuber average for Ivory Crisp = 57%; foliar = 8.4

4 Evaluations made at Prosser, WA by Chuck Brown; Klamath, OR by Brian Charlton. 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. Data from PLRV-infected plots.

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: 2009 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	24.2	0.01	0.18	5.2	19.1	3.5
2 CHIPETA	22.4	0.00	0.16	5.6	21.6	2.0
3 CO00188-4W	21.5	0.00	0.11	5.6	19.3	1.3
4 CO00197-3W	21.5	0.00	0.13	4.6	17.0	2.1
5 CO00270-7W	22.0	0.00	0.11	6.1	17.5	4.0
Means	22.3	0.00	0.14	5.4	18.9	2.6

FWB = fresh weight basis DWB = dry weight basis

Glycoalkaloids: The 2009 Lenape check from Aberdeen was 42.6.0 mg/100g

TABLE 12: 2009 Western Regional Chipping Potato Variety Trial - MERIT SCORES (1-5(best))

No.	Clone	Fresh Merit				Means	Processing Merit		
		CO	ID	DTX	STX		CO	ID	Means
1	ATLANTIC	1.0	2.0	3.7	3.9	2.7	1.0	3.0	2.0
2	CHIPETA	5.0	3.3	3.2	3.6	3.8	2.0	3.0	2.5
3	CO00188-4W	2.0	2.5	3.2	3.3	2.8	4.0	3.5	3.8
4	CO00197-3W	2.0	2.7	2.3	4.0	2.8	1.0	3.6	2.3
5	CO00270-7W	2.0	2.5	3.4	3.9	3.0	4.0	4.0	4.0
Location Means		2.4	2.6	3.2	3.7		2.4	3.4	

TABLE 13: 2009 Western Regional Chipping Potato Variety Trial - SUMMARY

No.	Clone	Year in Trial	Total Yield	% US#1's	Tuber Size (oz)	Specific Gravity	Chip Color	Merit Score	Comments	Disposition
1	ATLANTIC	CK	528 high	455 85 med-high	5.5 medium	94 high	2.3 good	2.0 medium	HH, internal defects	
2	CHIPETA	CK	581 v. high	520 89 high	7.6 large	86 med-high	2.0 good	2.5 medium		
3	CO00188-4W	1	411 medium	321 78 medium	4.2 small	83 medium	1.0 excell.	3.8 good	low sugars	return
5	CO00197-3W	1	497 high	380 76 medium	4.4 small	80 medium	2.3 good	2.3 medium	scab, internal defects	return
6	CO00270-7W	1	466 med-high	400 85 med-high	5.5 medium	81 medium	1.0 excell.	4.0 v good	GC, low sugars, shatter bruise	return

TABLE 14: 2008 Western Regional Chipping Potato Variety Trial - STORAGE DATA FROM TULELAKE, CA.

2008 WR Chip Entries

Harvested: 10/7/2008

	Shatter Bruise Rating	Cumulative Shrink (%)		Cumulative Rot (%)		Turgor Rating (1-5, 5=Best)		Sprout Rating (1-5, 5=None)	
		Date	12/10/08	2/11/09	12/10/08	2/11/09	12/10/08	2/11/09	12/10/08
Variety	64 DAH	64 DAH	127 DAH	64 DAH	127 DAH	64 DAH	127 DAH	64 DAH	127 DAH
Atlantic	4.00	3.73	11.23	0.00	0.00	4.00	3.00	3.00	1.00
Chipeta	4.00	3.38	7.60	0.00	0.10	4.00	4.00	5.00	3.00
Ivory Crisp	3.00	5.06	12.95	0.00	0.00	5.00	2.50	4.50	1.50
CO97043-14W	4.00	4.47	11.92	0.00	0.00	4.00	3.00	5.00	1.00
CO97065-7W	4.00	3.91	9.24	0.00	0.00	4.50	3.50	5.00	3.00

Comments and Information from States

Idaho Comments		VERT	Early Blight	Eye Depth	Early Blight	Eye Depth	
1	ATLANTIC	rot	2.0	2.0	3.3	2.0	3.3
2	CHIPETA	smaller the normal	2.5	2.5	3.0	2.5	3.0
3	CO00188-4W	round, very small,	1.0	1.0	3.5	1.0	3.5
4	CO00197-3W	oval, white, rot, some points, rot	1.0	1.0	3.5	1.0	3.5
5	CO00270-7W	round, white, shattered, scab, ad stolons	2.5	2.0	3.8	2.0	3.8

Comment from Klamath Falls		Size Uni. (1-5 ex.)	Shape Uni. (1-5 ex.)	Eye Depth (1-5 shal.)	Greening (1-5 none)	
1	Atlantic	flaky skin, uniform, fair-nice	4.0	4.0	3.9	4.1
2	Chipeta	thin skin, irregular shape, large	4.1	3.4	3.1	3.6
3	CO00188-4W	irregular shape, some with light russet, fair	3.8	4.0	4.0	3.9
4	CO00197-3W	root knot nematode, some irregular shape, fair	4.3	3.8	4.5	4.5
5	CO00270-7W	smooth, irregular, low yield and emergence	2.9	3.5	4.6	4.0

Dalhart, Texas Comments		Percent			Good/Bad	
		Zebra	Vas	Bruise	Chip Ratio	
1	Atlantic	3% Vas, 14% BSB, Buff+, Oversize	0%	3%	14%	31/6
2	Chipeta	3% BC, 3% GH, 20% Vas, 5% BSB, Oversize+, Rough	0%	20%	5%	28/12
3	CO00188-4W	Best of Trial	0%	0%	0%	39/0
4	CO00197-3W	Rough, Pointed, Drop, Rhizoctonia++, nice flesh	2%	0%	0%	41/1
5	CO00270-7W	2% GH, 10% BSB, Rhizoctonia	0%	0%	10%	36/5

Springlake, Texas Comments		DPPH (µgTE/gfw)	ABTS (µgTE/gfw)	TP (mgCGA Eq /100gfw)	Percent			Good/Bad	
					Zebra	Vas	Bruise	Chip Ratio	
1	Atlantic	1 HH, poor internals, buff, Best of Trial	162.2	510.3	58.6	12%	34%	0%	21/20
2	Chipeta	rough, oblong, stolon attachment, drop,	207.9	640.9	90.5	19%	6%	0%	23/8
3	CO00188-4W	drop, Rhizoctonia, Best of Trial-, small+, nice	258.3	722.7	99.6	13%	0%	3%	32/6
4	CO00197-3W	irregular shape, drop, flat	165.5	668.8	78.2	5%	0%	15%	32/8
5	CO00270-7W	Rhizoctonia, large	73.7	578.9	73.9	5%	3%	8%	34/6

BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB= pressure bruise, GH=greenheads, Z=zebra

* The assay used at Texas A&M University was based on use of two types of free radicals [DPPH assay (Brand-Williams, et al. 1995, Levensm. Wiss. Technol. 28:25-30) and ABTS assay (Awika et al., 2003, J. Agric. Food Chem. 51: 6657-6662) to evaluate antioxidant activity, and the Folin-Ciocalteu method (Singleton et. al, Methods Enzymol. 1999, 299, 152-178) to determine total phenolic content. Antioxidants soluble in methonal were extracted and allowed to react with the stable radicals, 2,2,-Diphenyl-1-picrylhydrazyl (DPPH) and 2,2'-azinobis(3-ethylbenzothiazoline-6-sulfonic acid) diammonium salt (ABTS). This provided a rapid evaluation of the antioxidant properties of the potato extracts based on absorbance.