

2011 WESTERN REGIONAL CHIPPING POTATO TRIAL REPORT

State Agricultural Experiment Stations and
USDA-ARS

California
Colorado
Idaho
Oregon
Texas



2011 WESTERN REGIONAL CHIPPING POTATO VARIETY TRIAL REPORT

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Compiled by David Holm and Caroline Gray

TABLE 1: 2011 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.	204-80-48-21	23-May	16-Sep	11-Oct	116	141	Matrix Metribuzin Outlook	Movento Coragen Alias 4F	Endura Quadris Tanos
San Luis Valley Colorado (CO)	D. Holm C. Gray	Late	Pivot	120-60-40-25-2.5Zn	20-May	6-Sep	29-Sep	109	132	Dual Magnum Matrix SG Eptam 7E	Endigo ZC Fulfill	Bravo WS Quadris
Aberdeen Idaho (ID)	J. Stark R. Novy J. Whitworth P. Bain M. Chappell	Late	Sprink.	235-160-150-50	4-May	7-Sep	29-Sep	126	148	Sencor Matrix Eptam	Admire Pro	Echo 720 Dithane DF
Klamath Falls Oregon (KF)	B. Charlton D. Culp	Late	Sprink.	161-173-34-43	24-May	12-Sep	13-Oct	111	142	Matrix Prowl H2O Outlook Eptam 7E	Admire Pro Leverage Endigo Movento Assail 70 WP Fulfill	Moncut Ridomil Gold Bravo
Dalhart Texas (DTX)	J. C. Miller, Jr. J. Koym D. Schuering	Late	Pivot	183-101-44	2-May	12-Sep	3-Oct	133	154	Brawl Dimetric Cornerstone Sencor DF Select Max Matrix Eptam	Beleaf EPI-MEK 0.15 EC Fulfill Movento Oberon	Endura Quadris Bravo Echo 720 Ag Revus Top Scala SC
Springlake Texas (STX)	J. C. Miller, Jr. J. Koym D. Schuering	Early	Pivot	125-21-21-124	24-Mar	27-Jul	3-Aug	125	132	Sencor Roundup Treflan Dual	Movento Admire Pro Epimek	

TABLE 2: 2011 Western Regional Chipping Potato Variety Trial - CLONE, PARENTS, ENTERED BY, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS, AND STEMS PER PLANT¹

No	Clone	Parents	Flower Color	Entered by	Year in Trial	Seed Source	Mean Stand %	Tuber Shape ²		Skin ³		Vine Size ⁴		Vine Maturity ⁵	Stems/Plant	
1	ATLANTIC	WAUSEON B5141-6	V Lt Red-purple	Check	Ck	CO/P	90	2.1	Oblong	2.3	Buff	3.5	Med-large	3.2	Medium	2.7
2	CHIPETA	WNC612-13 WISCHIP	Med Red-purple	Check	Ck	CO/P	99	2.0	Oval	1.8	White	4.1	Large	3.9	Med--late	2.4
3	A01143-3C	COA95070-8 Chipeta	White	ID	2	ID	97	1.9	Oval	1.3	White	3.8	Med-large	3.8	Med--late	3.3
4	AC01151-5W	COA96142-7 NDA2031-2	Light Purple	CO	1	CO	97	1.8	Oval	1.0	White	3.5	Med-large	3.6	Med--late	2.9
5	CO00188-4W	A90490-1W BC0897-2W	Red-purple	CO	3	CO	94	1.4	Round	1.3	White	2.9	Medium	2.3	Early	2.8
6	CO00197-3W	A91790-13W NDTX4930-5W	White	CO	3	CO	90	2.2	Oblong	1.2	White	3.3	Med-large	2.6	Med Early	2.5
7	CO00270-7W	BC0894-2W A91790-13W	Red-purple	CO	3	CO	87	1.7	Oval	1.0	White	3.2	Med-large	2.9	Med Early	2.5
8	CO02024-9W	A91790-13W CO95051-7W	White	CO	1	CO	95	1.6	Oval	1.1	White	3.2	Med-large	3.4	Medium	2.7
9	CO02033-1W	A91790-13W S440	White	CO	1	CO	97	2.3	Oblong	1.1	White	3.2	Med-large	2.7	Med Early	2.8
10	CO02321-4W	NY115W BC0894-2W	Light Purple	CO	1	CO	94	1.7	Oval	1.2	White	3.3	Med-large	2.7	Med Early	2.4

¹ Numerical values are means of all trial locations.

² 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

³ 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

⁴ 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

⁵ 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: 2011 Western Regional Chipping Potato Variety Trial - TOTAL YIELD - YIELD OF U.S. #1'S (CWT/A & %)

No. Clone	Total Yield (CWT/A)						Entry Mean ¹	Rank	U.S. No. 1's (CWT/A) / %						Entry Mean ¹	Rank
	CA	CO	ID	KF	DTX	STX			CA	CO	ID	KF	DTX	STX		
1 ATLANTIC	366	387	442	478	511	265	437	7	254	334	351	379	271	145	318	3
2 CHIPETA	527	431	580	610	175	91.4	465	5	376	354	530	535	77	42	374	2
3 A01143-3C	434	400	570	572	173	145	430	8	278	312	468	424	36	34	304	4
4 AC01151-5W	524	420	521	589	568	227	524	1	326	344	336	393	119	35	304	5
5 CO00188-4W	454	367	306	386	412	109	385	9	303	306	173	249	147	29	235	10
6 CO00197-3W	389	354	390	527	564	237	445	6	259	269	243	388	143	60	261	8
7 CO00270-7W	287	336	410	421	284	204	348	10	178	288	342	332	122	64	252	9
8 CO02024-9W	551	343	466	551	442	162	471	3	354	295	328	398	82	22	291	7
9 CO02033-1W	438	368	477	550	508	123	468	4	281	329	349	467	64	10	298	6
10 CO02321-4W	513	357	384	551	683	183	498	2	391	305	282	440	458	66	375	1
Location Mean	448	376	455	524	432	175			300	314	340	400	152	51		
									67	83	74	76	34	28		

¹Entry means do not include STX.

TABLE 4: 2011 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 ¹	KF ²	DTX	STX	Entry Mean ³ Rank	CA	CO	ID	KF	DTX	STX	Entry Mean ³ Rank
1 ATLANTIC	48	101	53	78	60	24	68 3	81	34	51	52	91	119	62 8
	13	26	12	16	12	9	16 2	22	9	12	11	18	45	14 9
2 CHIPETA	169	161	266	87	26	5	142 1	41	28	15	49	82	49	43 10
	32	37	46	14	15	5	29 1	8	6	3	8	47	54	14 8
3 A01143-3C	10	47	69	0	0	0	25 6	149	73	58	129	106	109	103 5
	2	12	12	0	0	0	5 6	34	18	10	23	62	75	29 4
4 AC01151-5W	37	55	2	18	13	0	25 7	148	72	168	136	286	179	162 1
	7	13	0	3	2	0	5 8	28	17	32	23	50	79	30 3
5 CO00188-4W	31	45	4	0	4	0	17 9	135	44	128	122	175	80	121 4
	7	12	1	0	1	0	4 9	30	12	42	32	42	73	32 1
6 CO00197-3W	37	29	16	29	67	0	36 5	102	81	126	109	298	171	143 2
	10	8	4	5	12	0	8 5	26	23	32	21	53	72	31 2
7 CO00270-7W	79	56	46	25	42	0	50 4	43	33	52	76	35	133	48 9
	28	17	11	6	15	0	15 3	15	10	13	18	12	65	14 10
8 CO02024-9W	15	52	2	4	0	0	15 10	184	46	132	119	213	136	139 3
	3	15	0	1	0	0	4 10	33	13	28	22	48	83	29 5
9 CO02033-1W	16	46	14	33	4	0	23 8	142	36	74	66	121	91	88 6
	4	13	3	6	1	0	5 7	32	10	16	12	24	73	19 6
10 CO02321-4W	72	69	21	53	174	4	78 2	82	43	95	77	122	112	84 7
	14	19	5	10	25	2	15 4	16	12	25	14	18	61	17 7
Location Mean	47	60	45	30	35	3	43	101	45	82	85	139	107	90
	12	17	10	6	8	2	11	25	13	21	18	37	68	23

¹12 ounce

²14 ounce

³Entry means do not include STX.

TABLE 5: 2011 Western Regional Chipping Potato Variety Trial - SPECIFIC GRAVITY

No. Clone	Specific Gravity						Entry Mean	Rank
	CA	CO	ID	KF	DTX	STX		
1 ATLANTIC	1.102	1.108	1.095	1.090	1.077	1.066	1.090	1
2 CHIPETA	1.090	1.100	1.085	1.090	1.083	1.041	1.081	5
3 A01143-3C	1.095	1.100	1.087	1.091	1.064	1.049	1.081	7
4 AC01151-5W	1.083	1.103	1.089	1.082	1.072	1.059	1.081	6
5 CO00188-4W	1.088	1.098	1.090	1.081	1.079	1.063	1.083	4
6 CO00197-3W	1.087	1.095	1.091	1.086	1.066	1.049	1.079	9
7 CO00270-7W	1.081	1.091	1.086	1.079	1.062	1.057	1.076	10
8 CO02024-9W	1.085	1.095	1.087	1.083	1.069	1.058	1.079	8
9 CO02033-1W	1.100	1.106	1.099	1.095	1.079	1.057	1.089	3
10 CO02321-4W	1.095	1.109	1.098	1.094	1.080	1.061	1.090	2
Location Mean	1.091	1.101	1.091	1.087	1.073	1.056		

TABLE 6: 2011 Western Regional Chipping Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

No. Clone	Average Tuber Size (oz)						Tuber Shape									
	CA	ID	KF	DTX	STX	Entry Mean	Length/ Width ID	Length/ Width CO	Length/ Width KF	Length/ Depth ID	Length/ Depth CO	(1-5, 1 = round, 5 = long)				Entry Mean
												CA	CO	DTX	STX	
1 ATLANTIC	4.9	6.2	6.3	6.1	3.0	5.3	1.08	1.08	1.12	1.35	1.32	1.4	2.0	3.5	1.0	2.3
2 CHIPETA	7.0	9.9	6.9	3.7	2.5	6.0	1.19	1.28	1.15	1.45	1.51	1.5	2.0	2.5	1.0	2.0
3 A01143-3C	4.2	6.4	4.8	4.9	1.7	4.4	1.11	1.07	1.06	1.37	1.29	1.1	2.0	3.5	1.0	2.2
4 AC01151-5W	4.5	3.9	4.1	3.3	1.7	3.5	1.05	1.01	1.12	1.34	1.24	1.9	2.0	3.2	1.0	2.4
5 CO00188-4W	4.4	3.8	3.8	4.0	2.2	3.7	1.15	1.08	1.11	1.42	1.38	1.5	1.0	2.0	1.0	1.5
6 CO00197-3W	4.5	3.9	4.9	3.3	2.1	3.8	1.15	1.09	1.18	1.46	1.43	2.0	2.0	3.5	2.0	2.5
7 CO00270-7W	6.3	6.2	5.0	6.5	2.2	5.2	1.07	1.08	1.09	1.30	1.22	1.8	2.0	2.0	1.0	1.9
8 CO02024-9W	4.2	4.2	4.4	3.2	1.6	3.5	1.10	1.06	1.07	1.47	1.34	1.3	2.0	2.0	1.0	1.8
9 CO02033-1W	4.3	5.5	5.7	4.7	2.1	4.4	1.21	1.11	1.15	1.65	1.46	1.3	2.0	3.5	2.0	2.3
10 CO02321-4W	5.5	4.7	5.7	6.3	2.4	4.9	1.08	1.07	1.08	1.35	1.25	1.6	1.0	3.5	1.0	2.0
Location Mean	5.0	5.5	5.2	4.6	2.2		1.12	1.09	1.11	1.42	1.34	1.6	1.8	2.9	1.1	

TABLE 7: 2011 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				
	CO	ID	KF	DTX	STX	Entry Mean	CO	ID	KF	DTX	STX	Entry Mean	KF	DTX	STX	Entry Mean	AB ²	ID	DTX	STX	Entry Mean
1 ATLANTIC	3.0	4.0	3.9	5.0	5.0	4.2	5.0	4.5	3.8	5.0	5.0	4.7	2.9	5.0	5.0	4.3	3.0	4.3	5.0	5.0	4.8
2 CHIPETA	2.0	4.8	4.0	5.0	5.0	4.2	4.0	5.0	4.5	5.0	5.0	4.7	3.3	5.0	5.0	4.4	2.7	3.8	5.0	5.0	4.6
3 A01143-3C	4.0	4.0	4.4	5.0	5.0	4.5	4.0	5.0	5.0	5.0	5.0	4.8	3.3	5.0	5.0	4.4	3.1	4.8	5.0	5.0	4.9
4 AC01151-5W	5.0	5.0	3.6	5.0	5.0	4.7	5.0	5.0	5.0	5.0	5.0	5.0	4.8	5.0	5.0	4.9	2.6	3.5	5.0	5.0	4.5
5 CO00188-4W	3.0	4.8	5.0	5.0	5.0	4.6	5.0	5.0	5.0	5.0	5.0	5.0	4.3	5.0	5.0	4.8	3.2	5.0	5.0	5.0	5.0
6 CO00197-3W	4.0	4.5	4.6	5.0	5.0	4.6	5.0	4.7	4.8	5.0	5.0	4.9	4.1	5.0	5.0	4.7	2.7	3.8	5.0	5.0	4.6
7 CO00270-7W	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.8	5.0	5.0	5.0	5.0	3.8	5.0	5.0	4.6	2.2	3.8	5.0	5.0	4.6
8 CO02024-9W	5.0	5.0	4.9	5.0	5.0	5.0	5.0	5.0	4.9	5.0	5.0	5.0	3.9	5.0	5.0	4.6	2.6	3.3	5.0	5.0	4.4
9 CO02033-1W	5.0	4.8	4.8	5.0	5.0	4.9	5.0	4.5	4.9	5.0	5.0	4.9	1.8	5.0	5.0	3.9	2.7	3.3	5.0	5.0	4.4
10 CO02321-4W	4.0	5.0	4.8	5.0	5.0	4.8	5.0	4.8	5.0	5.0	5.0	5.0	4.8	5.0	5.0	4.9	3.5	4.0	5.0	5.0	4.7
Location Mean	4.0	4.7	4.5	5.0	5.0		4.8	4.8	4.8	5.0	5.0		3.7	5.0	5.0		2.8	3.9	5.0	5.0	

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: 2011 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 %					
	CA	CO	ID	KF	DTX	STX	Entry Mean	ID	KF	DTX	STX	Entry Mean	CA	ID	KF	DTX	STX	Entry Mean	STX ¹	DTX ¹	CO ¹	KF	AB ²
1 ATLANTIC	15	5	50	6	40	0	20	0	5	67	8	20	3	0	3	50	0	13	5	5.0	3.9	30	3.5
2 CHIPETA	0	0	13	0	0	0	3	0	0	0	0	0	1	2	5	0	18	6	5	5.0	4.6	5	3.2
3 A01143-3C	0	0	0	0	0	3	1	0	0	0	0	0	10	0	3	0	0	1	5	5.0	4.4	5	3.4
4 AC01151-5W	0	0	0	0	15	0	3	0	3	0	0	1	20	0	0	0	0	0	5	5.0	3.5	20	3.0
5 CO00188-4W	5	0	0	0	20	0	4	0	5	0	0	1	8	0	0	0	0	0	5	5.0	4.0	10	3.2
6 CO00197-3W	0	0	5	0	5	0	2	0	8	0	0	2	25	0	5	0	3	2	5	5.0	3.8	45	2.2
7 CO00270-7W	3	0	0	0	15	0	3	0	0	0	3	1	13	0	0	5	0	1	5	5.0	4.2	3	3.1
8 CO02024-9W	10	0	0	6	10	0	3	0	8	0	0	2	5	0	0	0	0	0	5	5.0	3.3	8	3.1
9 CO02033-1W	0	2	23	5	10	0	8	0	0	0	0	0	38	0	0	5	0	1	5	5.0	3.6	3	3.3
10 CO02321-4W	0	0	0	0	5	0	1	0	3	15	0	4	18	0	0	0	0	0	5	5.0	4.0	8	3.0
Location Mean	3	1	9	2	12	0		0	3	8	1		14	0	2	6	2		5.0	5.0	3.9	14	3.1

¹ Score 1-5, with 1=severe, 5=none.

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

TABLE 9: 2011 Western Regional Chipping Potato Variety Trial - CHIP COLOR

Clone	STX ¹ Field	DTX ¹ Field	CO ¹				ID ¹			50 ² Mean
			Chip 40		Chip 50		Chip 40		Chip 50	
			^a	Recon ^b	^c	Recon ^d	^a	Recon ^b	^c	
1 ATLANTIC	1+	1.0	4.5	4.0	3.5	2.5	4.0	3.5	1.0	2.3
2 CHIPETA	2.0	1.0	5.0	4.5	3.5	2.5	4.3	4.7	1.0	2.3
3 A01143-3C	1.0	1.0	3.5	2.5	2.5	1.0	2.7	1.4	1.0	1.8
4 AC01151-5W	1.0	2.0	4.0	4.0	2.0	2.0	2.4	2.1	1.0	1.5
5 CO00188-4W	1.0	1.0	3.5	3.5	2.5	1.5	2.6	3.0	1.0	1.8
6 CO00197-3W	1.0	1.0	4.0	4.0	2.0	1.0	2.4	2.2	1.0	1.5
7 CO00270-7W	1.0	1.0	3.5	3.5	2.5	2.0	3.1	3.0	1.0	1.8
8 CO02024-9W	1+	1.0	3.5	1.5	1.5	1.5	3.6	2.5	1.0	1.3
9 CO02033-1W	2.0	1.0	3.0	1.5	2.0	2.0	1.5	1.5	1.0	1.5
10 CO02321-4W	1+	1.0	4.0	3.0	2.5	1.5	2.9	1.6	1.0	1.8
Location Means	1.3	1.1	3.9	3.2	2.5	1.8	3.0	2.6	1.0	

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

^a Stored 6 weeks (CO) and 5 weeks (ID) at 40°F.

^b Stored 6 weeks (CO) and 5 weeks (ID) at 40°F plus 3 weeks at 60°F.

^c Stored 6 weeks (CO) and 8 weeks (ID) at 50°F.

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

² Mean for CO and ID.

TABLE 10: 2011 Western Regional Chipping Potato Variety Trial - SOLIDS, DEXTROSE, SUCROSE, PROTEIN, VITAMIN C, AND GLYCOALKALOIDS - ABERDEEN

Clone	Solids Oven Dry (%)	Sugars		Protein (%DWB) ²	Vitamin C (mg/100g FWB) ¹	Glycoalkaloids (mg/100gFWB) ^{1,3}
		Dextrose (%FWB) ¹	Sucrose (%FWB) ¹			
1 ATLANTIC	23.4	0.01	0.14	5.8	24.0	7.0
2 CHIPETA	20.8	0.02	0.13	5.8	25.6	3.8
3 A01143-3C	22.2	0.00	0.14	6.4	23.3	6.3
4 AC01151-5W	21.9	0.00	0.14	4.7	16.2	6.5
5 CO00188-4W	22.3	0.00	0.08	6.5	23.9	2.7
6 CO00197-3W	21.8	0.00	0.10	5.0	18.4	2.3
7 CO00270-7W	22.0	0.00	0.10	6.1	20.0	6.1
8 CO02024-9W	21.2	0.00	0.11	6.0	21.1	5.7
9 CO02033-1W	24.9	0.00	0.14	6.3	21.1	4.7
10 CO02321-4W	23.7	0.00	0.09	5.7	29.9	4.4
Mean	22.4	0.00	0.12	5.8	22.3	5.0

¹FWB = fresh weight basis

²DWB = dry weight basis

³Glycoalkaloids: The 2011 Lenape check from Aberdeen was 43.8 mg/100g

TABLE 11: 2011 Western Regional Chipping Potato Variety Trial - DISEASE EVALUATIONS, METRIBUZIN REACTION

No. Clone	Vert. Wilt/ Early Dying		Early Blight				Late Blight			Common Scab		% Net Necrosis/ vascular discoloration ¹		Pecto- bacterium	Fusarium		Metr.
	AB ¹		TUL ²		AB ¹		CORV ³			AB ¹		AB		Soft Rot ¹	Dry Rot (0-5)		Reaction
	(0-9) ²	AUDPC	(0-9)	(0-9)	Foliar	Tuber	Foliar	Tuber	% Serious	Incidence	Defect	Incidence	% Serious Defect	AB	F(sam)	F(sol)	AB ⁴
1 Atlantic	6.7	286	5.8	6.7	373	6	9	1359	0	11	9	11	7	1.8	3.4	3.4	MS
2 Chipeta	4.3	104	3.8	5.7	288	0	7	1152	23	11	4	22	17	0.7	2.8	2.6	R
3 A01143-3C	4.0	74	2.5	6.0	236	0	9	1331	18	14	5	38	21	2.8	3.3	1.2	R
4 AC01151-5W	3.0	40	4.3	5.7	240	2	9	1341	15	34	18	30	4	3.9	3.7	4.4	MR
5 CO00188-4W	8.7	890	6.8	8.0	705	0	9	1377	0	13	8	14	0	2.8	3.7	2.2	MR
6 CO00197-3W	7.7	497	6.3	8.0	740	0	9	1386	5	29	24	41	5	4.5	4.3	3.3	R
7 CO00270-7W	8.3	522	6.3	7.7	595	0	9	1369	3	27	6	26	42	3.7	3.9	4.3	R
8 CO02024-9W	3.3	46	5.0	5.3	154	39	9	1347	0	23	13	18	7	2.7	2.7	4.3	MR
9 CO02033-1W	7.7	395	7.0	7.7	558	17	9	1395	5	20	14	53	0	3.4	1.9	3.1	MR
10 CO02321-4W	7.3	464	5.5	7.7	580	8	9	1390	3	41	21	27	0	2.8	3.0	4.2	MS
MEAN	6.1	332	5.3	6.8	447	7	9	1345	7	17	12	28	10	2.9	3.3	3.3	
LSD @ .05	1.7			1.7		14.0	1	138	8	19	12	24.0	22.0	1.8	0.7	0.8	

¹ Evaluations made at Aberdeen, Idaho by Jonathan Whitworth; scale as indicated with highest number being most severe. For 0 to 9: 0=no symptoms;

1= 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.

Early Blight and Vert. Wilt AUDPC: Area Under the Disease Progress Curve based on foliar readings taken 106, 113, and 120 days after planting.

Common Scab and Net Necrosis serious defects are the number of tubers with a 3 rating (0-5 scale) or higher, divided by the total number of tubers examined. Net necrosis data from PLRV-infected plots.

For 0 to 5: 0=0%/none; 5=100%/severe as a combination of tuber area and degree impacted by Fusarium and Pectobacterium inoculations.

² Evaluations made at Tulelake, California; scale as indicated, highest number being most severe.

³ Evaluations made at Corvallis, Oregon by Solomon Yilma; 1=no foliar injury; 3=5-10%; 5=25-40%; 7=60-75%; 8=75-90%; 9=90-100%.

Late blight AUDPC=area under the disease progress curve. Higher number indicates more disease over time; % of tubers examined with any late blight symptoms.

⁴ Metribuzin Reaction measured at Aberdeen, ID. VR=very resistant, R=Resistant, MR=Moderately resistant, MS=moderately susceptible, S=susceptible VS=very susceptible

TABLE 12: 2011 Western Regional Chipping Potato Variety Trial - MERIT SCORES (1-5(best))

No. Clone	Fresh Merit					Processing Merit			
	CO	ID	DTX	STX	Entry Mean	CA	CO	ID	Entry Mean
1 ATLANTIC	4.0	3.3	3.1	3.4	3.5	2.8	2.0	3.0	2.6
2 CHIPETA	5.0	3.6	2.2	2.3	3.6	3.7	3.0	3.0	3.2
3 A01143-3C	3.0	3.5	2.8	3.2	3.1	4.6	5.0	4.0	4.5
4 AC01151-5W	4.0	3.5	3.0	2.5	3.5	2.5	5.0	3.8	3.8
5 CO00188-4W	2.0	2.8	2.9	3.4	2.6	3.4	3.0	3.0	3.1
6 CO00197-3W	1.0	2.8	1.8	3.7	1.9	2.8	3.0	2.5	2.8
7 CO00270-7W	1.0	3.9	2.5	3.6	2.5	3.3	2.0	2.8	2.7
8 CO02024-9W	1.0	3.2	3.0	3.2	2.4	3.7	3.0	3.0	3.2
9 CO02033-1W	3.0	2.2	2.0	2.3	2.4	4.0	5.0	3.0	4.0
10 CO02321-4W	2.0	4.0	3.0	3.3	3.0	3.6	4.0	3.5	3.7
Location Mean	3.5	3.3	2.6	3.1		3.4	3.5	3.2	

TABLE 13: 2011 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
1	ATLANTIC	CK	437	318 74	5.3	1.090	2.3	2.6
2	CHIPETA	CK	465	374 75	6.0	1.081	2.3	3.2
3	A01143-3C	2	430	304 64	4.4	1.081	1.8	4.5
4	AC01151-5W	2	524	304 59	3.5	1.081	1.5	3.8
5	CO00188-4W	3	385	235 61	3.7	1.083	1.8	3.1
6	CO00197-3W	3	445	261 61	3.8	1.079	1.5	2.8
7	CO00270-7W	3	348	252 71	5.2	1.076	1.8	2.7
8	CO02024-9W	1	471	291 62	3.5	1.079	1.3	3.2
9	CO02033-1W	1	468	298 65	4.4	1.089	1.5	4.0
10	CO02321-4W	1	498	375 76	4.9	1.090	1.8	3.7

Comments and Information from States

Aberdeen, Idaho Comments			Sugar Ends					
1	ATLANTIC	large, deep ends, misshaped, attached stolons	0.0					
2	CHIPETA	big, attached stolons	0.0					
3	A01143-3C	nice	2.8					
4	AC01151-5W	small, attached stolons	0.0					
5	CO00188-4W	small	0.0					
6	CO00197-3W	teardrop shape, some rot, small	0.0					
7	CO00270-7W	nice	0.0					
8	CO02024-9W	flat	0.0					
9	CO02033-1W	misshaped, flat, shatter	0.0					
10	CO02321-4W	nice	0.0					
Klamath Falls, Oregon Comments ¹			Tubers/ Plant	Size Uni. (1-5 ex.)	Shape Uni. (1-5 ex.)	Eye Depth (1-5 shal.)	Greening (1-5 none)	Hard bite (%)
1	ATLANTIC	SB, IB, poor	6.6	3.0	2.9	4.1	3.9	10
2	CHIPETA	irregular, IB, fair	7.4	3.4	3.6	4.1	4.0	8
3	A01143-3C	small, IB	10.9	4.1	4.4	4.4	4.4	0
4	AC01151-5W	GC, ok	12.5	3.0	4.0	4.5	3.6	3
5	CO00188-4W	IB, small	9.5	3.9	4.5	4.5	4.1	3
6	CO00197-3W	IB, ok	10.6	3.5	3.9	4.3	3.4	8
7	CO00270-7W	nice, smooth	7.9	4.1	4.8	4.5	4.3	5
8	CO02024-9W	flat, fair	11.3	3.8	3.9	4.5	3.6	8
9	CO02033-1W	IB, SB, poor	8.8	4.1	4.0	4.4	3.8	5
10	CO02321-4W	smooth, IB, nice	9.1	4.0	4.6	4.0	3.9	5
Tulelake, California								
1	ATLANTIC	The seed was moldy and dehydrated						
2	CHIPETA							
3	A01143-3C							
4	AC01151-5W							
5	CO00188-4W							
6	CO00197-3W	This entry had a large number of green tubers						
7	CO00270-7W	Received small, moldy seed. Several harvested tubers had knobs, greening and black dots.						
8	CO02024-9W							
9	CO02033-1W							
10	CO02321-4W	Black scurf noted on several tubers						
Dalhart, Texas Comments							Chip Notes ²	
1	ATLANTIC	buff, drop, heat necrosis, poor internals					2TM,6SED	
2	CHIPETA	light set					4SED	
3	A01143-3C	small, light set					BOT,4SED,	
4	AC01151-5W	greenhead					11SED	
5	CO00188-4W	rough					1TM,11SED	
6	CO00197-3W	drop					4AMP?,1MB,9SED	
7	CO00270-7W	oversized, light set					1TM,13SED	
8	CO02024-9W						BOT,1MB,2SED	
9	CO02033-1W	ugly, many culls, drop					2HH, 2TM,2MB	
10	CO02321-4W	greenheads					1HH,1MB,3SED	
Springlake, Texas Comments								
1	ATLANTIC	nice yield, buff, large tubers						
2	CHIPETA	heat sprouts, poor yield, light set						
3	A01143-3C	nice rep, heat sprouts+, low yield, light set						
4	AC01151-5W	small, heavy set+, heat sprouts, bad rep, small, poor shape, drop						
5	CO00188-4W	nice shape, light set, smooth						
6	CO00197-3W	very heavy set, small, heat sprouts, bad rep, good size, nice, nice flesh						
7	CO00270-7W	small, heavy set, buff, large tubers, heat sprouts, bad rep						
8	CO02024-9W	rough, small, did not size						
9	CO02033-1W	rough+						
10	CO02321-4W	nice rep, small, bad rep						

¹SB=shatter bruise, IB=impact bruise²BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, MB=mahogany browning, SE=sugar ends, SED=stem end discoloration, PB= pressure bruise, GH=greenheads, TM=tuber moth, Z=zebra