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 Reglone	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 Reglone	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 Mechanical	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 Reglone	13-Oct	111	142	Matrix Prowl H20 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 Mechanical	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 Mechanical	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 PLANT[1]

No	Clone	Parents	Flower Color	Entered by	Year in Trial	Seed Source	Mean Stand %	Tuber Shape[2]		Tuber 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 & %)

		Total Yield (CWT/A)								U.S. No. 1's (CWT/A) / %							
No.	Clone	CA	CO	ID	KF	DTX	STX	**Entry Mean[1]**	Rank	CA	CO	ID	KF	DTX	STX	**Entry Mean[1]**	Rank
1	ATLANTIC	366	387	442	478	511	265	**437**	**7**	254	334	351	379	271	145	**318**	**3**
										70	86	79	79	53	55	**74**	**3**
2	CHIPETA	527	431	580	610	175	91.4	**465**	**5**	376	354	530	535	77	42	**374**	**2**
										71	82	91	88	44	46	**75**	**2**
3	A01143-3C	434	400	570	572	173	145	**430**	**8**	278	312	468	424	36	34	**304**	**4**
										64	78	82	74	21	23	**64**	**6**
4	AC01151-5W	524	420	521	589	568	227	**524**	**1**	326	344	336	393	119	35	**304**	**5**
										62	82	65	67	21	15	**59**	**10**
5	CO00188-4W	454	367	306	386	412	109	**385**	**9**	303	306	173	249	147	29	**235**	**10**
										67	83	57	64	36	27	**61**	**8**
6	CO00197-3W	389	354	390	527	564	237	**445**	**6**	259	269	243	388	143	60	**261**	**8**
										67	76	62	74	25	25	**61**	**9**
7	CO00270-7W	287	336	410	421	284	204	**348**	**10**	178	288	342	332	122	64	**252**	**9**
										62	86	83	79	43	31	**71**	**4**
8	CO02024-9W	551	343	466	551	442	162	**471**	**3**	354	295	328	398	82	22	**291**	**7**
										64	86	70	72	19	13	**62**	**7**
9	CO02033-1W	438	368	477	550	508	123	**468**	**4**	281	329	349	467	64	10	**298**	**6**
										64	89	73	85	13	8	**65**	**5**
10	CO02321-4W	513	357	384	551	683	183	**498**	**2**	391	305	282	440	458	66	**375**	**1**
										76	86	73	80	67	36	**76**	**1**
Location Mean		**448**	**376**	**455**	**524**	**432**	**175**			**300**	**314**	**340**	**400**	**152**	**51**		
										67	**83**	**74**	**76**	**34**	**28**		

[1]Entry 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 & %)

	U.S. No. 1's > 10/12 OZ (CWT/A) / %								Yield < 4 OZ (CWT/A) / %							
No. Clone	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**	

[1]12 ounce
[2]14 ounce
[3]Entry means do not include STX.

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

		Specific Gravity							
No.	Clone	CA	CO	ID	KF	DTX	STX	**Entry Mean**	Rank
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

		Average Tuber Size (oz)						Tuber Shape									
								Length/ Width	Length/ Width	Length/ Width	Length/ Depth	Length/ Depth	(1-5, 1 = round, 5 = long)				
No.	Clone	CA	ID	KF	DTX	STX	**Entry Mean**	ID	CO	KF	ID	CO	CA	CO	DTX	STX	**Entry Mean**
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

		Growth Cracks[1]						Second Growth[1]						Shatter Bruise [1]					Scab [1]			
No.	Clone	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

		Percent Hollow Heart plus Brown Center							Percent Internal Brown Spot					Percent Net Necrosis Vascular Discoloration						Blackspot Bruise %				
No.	Clone	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

				CO [1]				ID [1]			
		STX [1]	DTX [1]	Chip 40		Chip 50		Chip 40		Chip 50	**50 [2]**
	Clone	Field	Field	[a]	Recon [b]	[c]	Recon [d]	[a]	Recon [b]	[c]	**Mean**
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 Dextrose (%FWB)[1]	Sugars Sucrose (%FWB)[1]	Protein (%DWB)[2]	Vitamin C (mg/100g FWB)[1]	Glycoalkaloids (mg/100gFWB)[1,3]
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**

[1]FWB = fresh weight basis

[2]DWB = dry weight basis

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

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

		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] Foliar		*Tuber (2010 data)	CORV[3] Foliar		Tuber	AB[1]		*AB (2010 data)		Soft Rot[1] AB	Dry Rot (0-5)		Reaction
No.	Clone	(0-9)[2]	AUDPC	(0-9)	(0-9)	AUDPC	%	1-9	AUDPC	%	Incidence	%Serious Defect	Incidence	% Serious Defect	0-5	F(sam)	F(sol)	AB[4]
1	Atlantic	6.7	286	5.8	6.7	373	0	9	1359	0	11	9	39	0	1.8	3.4	3.4	MS
2	Chipeta	4.3	104	3.8	5.7	288	1	7	1152	23	11	4	48	0	0.7	2.8	2.6	R
3	A01143-3C	4.0	74	2.5	6.0	236	0	9	1331	18	14	5	35	3	2.8	3.3	1.2	R
4	AC01151-5W	3.0	40	4.3	5.7	240	--	9	1341	15	34	18	--	--	3.9	3.7	4.4	MR
5	CO00188-4W	8.7	890	6.8	8.0	705	0	9	1377	0	13	8	26	8	2.8	3.7	2.2	MR
6	CO00197-3W	7.7	497	6.3	8.0	740	0	9	1386	5	29	24	74	0	4.5	4.3	3.3	R
7	CO00270-7W	8.3	522	6.3	7.7	595	3	9	1369	3	27	6	59	0	3.7	3.9	4.3	R
8	CO02024-9W	3.3	46	5.0	5.3	154	--	9	1347	0	23	13	--	--	2.7	2.7	4.3	MR
9	CO02033-1W	7.7	395	7.0	7.7	558	--	9	1395	5	20	14	--	--	3.4	1.9	3.1	MR
10	CO02321-4W	7.3	464	5.5	7.7	580	--	9	1390	3	41	21	--	--	2.8	3.0	4.2	MS
	MEAN	**6.1**	**332**	**5.3**	**6.8**	**447**	**1**	**9**	**1345**	**7**	**17**	**12**	**47**	**2**	**2.9**	**3.3**	**3.3**	
	LSD @ .05	**1.7**			**1.7**			**1**	**138**	**8**	**19**	**12**			**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 typcial 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

* **2010 data to be replaced as soon as available in the online version**

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

		Fresh Merit					Processing Merit			
No.	Clone	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

[1]SB=shatter bruise, IB=impact bruise

[2]BOT=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