

2006
WESTERN REGIONAL CHIPPING
POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS

California
Colorado
Idaho

Oregon
Texas
Washington

2006 WESTERN REGIONAL CHIPPING POTATO VARIETY TRIAL REPORT

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Compiled by Peggy Bain

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TABLE 1: 2006 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.	260-240-0-110	13-May	11-Sep	11-Oct	121	151	Matrix Sencor DF	Monitor 4	Bravo Dithane F-45 Maxim
San Luis Valley Colorado (CO)	D. Holm F. Goktepe	Late	Pivot	120-60-40-25	13-May	4-Sep	25-Sep	114	135	Dual Magnum	Leverage 2.7	Bravo WS Quadris
Aberdeen Idaho (ID)	J. Stark R. Novy J. Whitworth P. Bain	Late	Sprink.	260-0-0	1-May	5-Sep	25-Sep	127	147	Sencor DF Matrix	Admire 2F	Quadris Dithane DF
Corvallis Oregon (CV)	I. Vales S. Yilma	Late	Sprink.	150-150-150-90	19-May	10-Sep	20-Sep	114	124	Matrix Prowl	Thimet Provado	Bravo Dithane Quadris
Hermiston Oregon (HRE)	D. Hane, L. Leroux	Early	Pivot	200-80-200-40	23-Mar	18-Jul	1-Aug	117	131	Eptam Matrix Enquik	Mocap Admire Asana Monitor	Ridomil Gold Quadris Bravo Dithane Omerga
Hermiston Oregon (HRL)	D. Hane, L. Leroux	Late	Pivot	265-80-200-40	6-Apr	22-Aug	5-Sep	138	152			
Klamath Falls Oregon (KF)	B. Charlton	Late	Sprink.	195-120-90-148	19-May	11-Sep	7-Oct	115	141	Dual Prowl Matrix	Monitor Admire Vydate CL-V	Maxim Quadris Dithane
Dalhart Texas (TX)	J. C. Miller, Jr. J. Koym D. Schuering	Early	Pivot	178-0-0	5-Apr	26-Jul	28-Aug	112	145	Prowl Dual Sencor Spartan Intensity Superb COC Arrow	Dimethoate Oberon	Dithane Headline Echo Headline Endura

TABLE 2: 2006 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	Tuber Yield	Vine Size	Vine Maturity	Stems/Plant		
1	ATLANTIC	WAUSEON B5141-6	V Lt Red-purple	Check	Ck	OR	94	1.6	Oval	2.4	Buff	3.1	Med-large	3.1	Medium	2.3
2	CHIPETA	WNC612-13 WISCHIP	Med Red-purple	Check	Ck	OR	96	2.2	Oblong	1.6	White	4.4	Large	4.1	Late	2.9
3	IVORY CRISP	ND292-1 A77268-4	White	Check	Ck	ID	96	1.2	Round	1.4	White	3.3	Med-large	3.6	Med--late	3.2
4	AC97097-14W	Brodick A91746-8	Purple	CO	1	CO	92	2.3	Oblong	1.6	White	3.4	Med-large	3.1	Medium	2.1
5	ATTX95490-2W	Red LaSoda A89655-5Y	White	TX	1	CO/TX	92	2.5	Oblong	1.1	White	3.3	Med-large	2.9	Med Early	3.2
6*	B0766-3T	B0243-18 Coastal Chip	White	MD	3	MD	97	1.7	Oval	1.9	White	3.6	Med-large	3.7	Med--late	2.9
7	CO95051-7W	AC88456-6W BC0894-2W	Purple	CO	3	CO	92	1.6	Oval	1.5	White	3.6	Med-large	3.3	Medium	2.2
8	CO96141-4W	BC0894-2 AC87340-2	White	CO	2	CO	97	1.9	Oval	1.6	White	2.9	Medium	2.8	Med Early	2.3
9	CO97043-14W	AC91817-5 AC87340-2	White	CO	1	CO	83	1.4	Round	1.1	White	3.2	Med-large	3.3	Medium	2.1
10	CO97065-7W	AC92513-3 Chipeta	Red-purple	CO	1	CO	96	1.1	Round	1.6	White	3.0	Medium	2.9	Med Early	2.5

* National Trial Entries

TABLE 3: 2006 Western Regional Chipping Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY & LATE HARVEST

No. Clone	Total Yield - Early Harvest (CWT/A)				Total Yield - Late Harvest (CWT/A)						Entry Mean	Rank
	HRE	TX	Entry Mean	Rank	CA	CO	ID	CV	KF	HRL		
1 ATLANTIC	588	563	576	3	455	477	486	469	376	806	511	4
2 CHIPETA	562	455	508	8	558	588	613	529	400	1146	639	1
3 IVORY CRISP	504	597	550	5	370	402	509	399	348	809	473	5
4 AC97097-14W	606	429	518	7	360	460	510	524	403	532	465	6
5 ATTX95490-2W	672	1158	915	1	445	695	521	578	499	610	558	2
6 B0766-3T	610	660	635	2	402	512	490	496	363	935	533	3
7 CO95051-7W	448	538	493	10	361	375	397	383	315	772	434	9
8 CO96141-4W	533	550	541	6	386	397	379	445	385	702	449	7
9 CO97043-14W	471	536	504	9	372	381	440	355	390	676	436	8
10 CO97065-7W	555	596	575	4	352	389	345	372	370	686	419	10
Location Means	555	608	586		406	468	469	455	385	767	492	
LSD (.05)			NS								112	

TABLE 4: 2006 Western Regional Chipping Potato Variety Trial - YIELD OF U.S. #1'S (CWT/A & %) - EARLY & LATE HARVEST

No. Clone	U.S. No. 1's - Early Harvest (CWT/A) / %				U.S. No. 1's - Late Harvest (CWT/A) / %						Entry Mean	Rank
	HRE	TX	Entry Mean	Rank	CA	CO	ID	CV	KF	HRL		
1 ATLANTIC	509	489	499	2	370	442	409	354	317	722	436	2
	87	87	87	2	81	93	84	75	84	90	85	1
2 CHIPETA	493	401	447	6	469	509	506	338	323	1025	528	1
	88	88	88	1	84	86	83	64	81	89	81	5
3 IVORY CRISP	392	511	452	5	286	294	443	276	284	638	370	5
	78	86	82	8	77	73	87	69	82	79	78	8
4 AC97097-14W	498	352	425	8	242	411	428	350	305	421	360	7
	82	82	82	7	67	89	84	67	76	79	77	9
5 ATTX95490-2W	420	312	366	9	201	526	274	229	306	397	322	10
	63	27	45	10	45	76	53	40	61	65	57	10
6 B0766-3T	502	575	538	1	315	432	377	402	271	796	432	3
	82	87	85	5	78	84	77	81	75	85	80	7
7 CO95051-7W	355	372	364	10	278	329	327	294	262	656	358	8
	79	69	74	9	77	88	82	77	83	85	82	4
8 CO96141-4W	449	467	458	4	303	362	339	331	315	602	375	4
	84	85	85	6	78	91	89	74	82	86	83	3
9 CO97043-14W	386	486	436	7	291	327	382	287	334	593	369	6
	82	91	86	4	78	86	87	81	86	88	84	2
10 CO97065-7W	471	525	498	3	252	337	267	296	309	571	339	9
	85	88	87	3	72	87	77	80	84	83	80	6
Location Means	448	449	450		301	397	375	316	303	642	409	
	81	79	79		74	85	80	71	79	83	79	
LSD (.05)			NS								86	

TABLE 5: 2006 Western Regional Chipping Potato Variety Trial - YIELD > 10/12 OZ (CWT/A & %) - EARLY & 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) / %						Entry Mean	Rank
	HRE	TX	Entry Mean	Rank	CA	CO	ID*	CV*	KF	HRL		
1 ATLANTIC	179	34	107	4	77	240	164	172	122	460	206	2
	30	6	18	4	17	50	34	37	32	57	38	2
2 CHIPETA	84	183	133	2	253	184	350	229	150	624	298	1
	15	40	28	1	45	31	57	43	38	54	45	1
3 IVORY CRISP	64	96	80	5	70	32	140	119	76	132	95	8
	13	16	14	5	19	8	28	30	22	16	20	7
4 AC97097-14W	58	32	45	9	32	145	119	168	85	85	106	6
	10	7	8	8	9	32	23	32	21	16	22	6
5 ATTX95490-2W	66	50	58	8	87	143	92	82	73	135	102	7
	10	4	7	9	20	21	18	14	15	22	18	8
6 B0766-3T	168	106	137	1	81	102	68	205	66	310	139	5
	28	16	22	3	20	20	14	41	18	33	24	5
7 CO95051-7W	26	0	13	10	29	52	3	82	35	119	53	10
	6	0	3	10	8	14	1	21	11	15	12	10
8 CO96141-4W	97	41	69	7	87	126	53	171	144	275	143	4
	18	7	13	6	23	32	14	38	37	39	31	4
9 CO97043-14W	99	128	114	3	112	101	169	148	179	285	166	3
	21	24	22	2	30	27	38	42	46	42	37	3
10 CO97065-7W	85	54	69	6	27	103	6	132	72	117	76	9
	15	9	12	7	8	26	2	35	19	17	18	9
Location Means	93	72	79		86	123	116	151	100	254	119	
	17	13	16		20	26	23	33	26	31	23	
LSD (.05)			NS								69	

* >12 oz.

TABLE 6: 2006 Western Regional Chipping Potato Variety Trial - YIELD < 4 OZ (CWT/A & %) - EARLY & LATE HARVEST

No. Clone	Yield < 4 OZ - Early Harvest (CWT/A) / %				Yield < 4 OZ - Late Harvest (CWT/A) / %						Entry Mean	Rank
	HRE	TX	Entry Mean	Rank	CA	CO	ID	CV	KF	HRL		
1 ATLANTIC	69	74	72	4	71	22	40	4	28	48	35	2
	12	13	12	4	16	5	8	1	7	6	7	2
2 CHIPETA	66	41	53	1	25	53	27	5	29	73	35	1
	12	9	10	1	4	9	4	1	7	6	5	1
3 IVORY CRISP	101	85	93	8	61	107	33	5	47	159	69	10
	20	14	17	9	16	27	6	1	14	20	14	10
4 AC97097-14W	93	78	85	6	94	42	50	4	40	79	51	5
	15	18	17	8	26	9	10	1	10	15	12	6
5 ATTX95490-2W	136	53	95	9	48	93	64	10	51	97	61	8
	20	5	12	3	11	13	12	2	10	16	11	5
6 B0766-3T	100	78	89	7	64	77	67	4	55	117	64	9
	16	12	14	6	16	15	14	1	15	13	12	7
7 CO95051-7W	90	166	128	10	67	42	67	6	47	109	56	6
	20	31	25	10	19	11	17	2	15	14	13	8
8 CO96141-4W	79	83	81	5	67	30	36	6	29	68	39	3
	15	15	15	7	17	7	9	1	8	10	9	3
9 CO97043-14W	81	46	63	2	52	51	35	6	28	74	41	4
	17	9	13	5	14	13	8	2	7	11	9	4
10 CO97065-7W	71	71	71	3	85	45	70	5	45	94	57	7
	13	12	12	2	24	11	20	1	12	14	14	9
Location Means	89	78	85		63	56	49	6	40	92	52	
	16	14	15		16	12	11	1	11	12	11	
LSD (.05)			NS								22	

TABLE 7: 2006 Western Regional Chipping Potato Variety Trial - SPECIFIC GRAVITY

No. Clone	Specific Gravity - Early & Late Harvest								Entry Mean	Rank
	HRE	CA	CO	ID	CV	KF	HRL	TX		
1 ATLANTIC	1.077	1.102	1.101	1.097	1.094	1.092	1.079	1.067	1.089	1
2 CHIPETA	1.066	1.089	1.094	1.084	1.084	1.087	1.071	1.053	1.079	8
3 IVORY CRISP	1.073	1.097	1.095	1.095	1.091	1.091	1.076	1.065	1.085	5
4 AC97097-14W	1.075	1.105	1.099	1.091	1.092	1.089	1.080	1.067	1.087	2
5 ATTX95490-2W	1.045	1.058	1.068	1.060	1.060	1.064	1.045	1.036	1.054	10
6 B0766-3T	1.076	1.107	1.100	1.090	1.090	1.087	1.079	1.060	1.086	4
7 CO95051-7W	1.067	1.099	1.106	1.100	1.087	1.089	1.077	1.068	1.087	3
8 CO96141-4W	1.065	1.086	1.092	1.088	1.086	1.077	1.065	1.063	1.078	9
9 CO97043-14W	1.067	1.085	1.089	1.089	1.085	1.083	1.067	1.064	1.079	7
10 CO97065-7W	1.078	1.091	1.098	1.089	1.076	1.085	1.078	1.067	1.083	6
Location Means	1.069	1.092	1.094	1.088	1.085	1.084	1.072	1.061	1.075	
LSD (.05)									0.004	

TABLE 9: 2006 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	4.9	4.1	5.0	4.6	4.9	4.8	2.3	5.0	4.1
2 CHIPETA	5.0	4.4	5.0	4.3	5.0	5.0	2.7	5.0	4.8
3 IVORY CRISP	4.8	4.8	5.0	5.0	4.7	4.7	2.2	5.0	4.2
4 AC97097-14W	4.9	4.6	5.0	4.9	5.0	5.0	2.0	5.0	4.4
5 ATTX95490-2W	4.7	2.6	5.0	3.9	4.7	5.0	2.1	4.8	4.4
6 B0766-3T	5.0	4.6	5.0	4.5	4.8	4.9	2.4	5.0	4.4
7 CO95051-7W	5.0	5.0	5.0	5.0	4.5	5.0	2.9	5.0	4.9
8 CO96141-4W	5.0	4.7	5.0	4.9	5.0	4.9	3.0	5.0	4.5
9 CO97043-14W	5.0	4.5	5.0	4.9	4.9	5.0	3.2	4.8	4.1
10 CO97065-7W	4.7	4.6	5.0	5.0	5.0	4.9	2.6	5.0	4.1
MEANS	4.9	4.4	5.0	4.7	4.8	4.9	2.5	4.9	4.4

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: 2006 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			
		Early	Late	ID	Early	Late	Early	Late	Percent		CO ¹	AB ²
									Early	Late		
1	ATLANTIC	3.0	26.5	ID	19.0	2.3	0.0	1.3	5.5	0.0	3.2	3.3
2	CHIPETA	0.5	12.0	ID	0.0	1.0	2.5	1.0	0.0	1.0	4.4	3.1
3	IVORY CRISP	0.5	9.9	ID	1.3	0.3	1.0	0.5	1.0	5.0	4.2	3.5
4	AC97097-14W	28.5	27.1	ID	3.5	3.5	0.0	1.0	1.0	2.0	4.4	3.2
5	ATTX95490-2W	1.8	2.1		1.3	0.3	0.0	2.3	0.5	1.0	4.5	3.2
6	B0766-3T	2.0	26.6		0.0	0.0	2.0	1.5	1.5	2.0	3.2	3.0
7	CO95051-7W	1.5	1.3		2.3	2.3	0.0	3.0	0.0	10.0	4.5	3.3
8	CO96141-4W	1.3	3.3		0.5	1.8	0.0	1.0	0.0	1.0	4.7	3.7
9	CO97043-14W	1.0	3.4		0.0	1.8	0.5	0.8	2.0	0.0	4.2	3.4
10	CO97065-7W	1.0	5.6		1.0	1.0	0.0	1.3	3.5	0.0	4.8	2.9
MEANS		4.1	11.8		2.9	1.4	0.6	1.4	1.5	2.2	4.2	3.3
LSD (.05)			13.1			NS						

¹ Score 1-5, with 1=severe, 5=none.

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

TABLE 11: 2006 Western Regional Chipping Potato Variety Trial - CHIP COLOR

Clone	HRE ¹ Field	TX 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	1.6	2.0	4.5	3.0	3.5	2.0	3.4	2.8	1.6	2.5	2.5
2 CHIPETA	2.0	2.5	4.0	3.5	2.0	1.0	3.8	2.2	1.9	2.1	2.0
3 IVORY CRISP	1.0	1.5	3.0	2.0	2.0	1.5	2.7	1.7	1.0	1.1	1.4
4 AC97097-14W	1.3	1.5	3.0	2.0	1.5	1.0	1.4	1.5	1.1	1.0	1.2
5 ATTX95490-2W	3.6	3.5	5.0	5.0	4.0	4.5	4.4	5.0	4.8	4.9	4.6
6 B0766-3T	1.4	1.3	2.0	1.5	1.5	1.5	3.0	1.3	1.3	1.6	1.5
7 CO95051-7W	1.5	1.6	2.5	1.0	1.5	1.0	2.7	1.6	1.1	1.0	1.2
8 CO96141-4W	1.0	1.5	4.0	3.5	2.0	2.5	2.7	2.2	1.1	1.4	1.5
9 CO97043-14W	1.0	1.5	3.5	3.5	2.0	1.5	2.4	1.5	1.0	1.4	1.5
# CO97065-7W	1.0	1.5	3.5	3.5	2.0	1.5	2.3	2.0	1.0	1.4	1.5
Location Means	1.5	1.8	3.5	2.9	2.2	1.8	2.9	2.2	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 12: 2006 Western Regional Chipping Potato Variety Trial - DISEASE EVALUATIONS, METRIBUZIN REACTION

No. Clone	Vert. Wilt/ Early Dying		Early Blight	Late Blight		AUDPC	Corky	Root-	Common	Net Necrosis		Erwinia	Metr. Reaction AB ⁴
	AB	HERM	AB	Foliar	Tuber		Ringspot	knot	Scab	AB	HERM	AB	
	0-9 ¹	0-9 ¹	0-9 ¹	CORVALLIS	%		PROSSER		(%) ³	(%) ^{3a}	(%) ³	0-5 ²	
1 Atlantic	6.2	--	4.7	9.0	17.5	1214	10	S	36.0	8.1	5.0	2.2	MS
2 Chipeta	3.7	5.0	2.3	7.5	12.5	936	--	--	18.0	25.0	2.5	2.9	--
3 Ivory Crisp	4.3	6.3	3.8	9.0	45.0	1300	5	S	62.0	6.7	5.0	3.4	--
4 AC97097-14W	5.8	8.3	3.2	8.3	25.0	1145	53	S	43.0	--	2.5	3.5	R
5 ATTX95490-2W	6.5	9.0	4.2	8.8	10.0	1215	13	S	33.0	--	15.0	3.5	R
6 B0766-3T	4.7	6.3	2.5	9.0	27.5	1182	23	S	28.0	5.4	5.0	3.5	R
7 CO95051-7W	3.7	5.7	4.2	8.3	17.5	1140	8	S	5.0	35.4	7.5	1.0	R
8 CO96141-4W	6.0	8.5	6.0	9.0	15.0	1355	3	S	20.0	8.8	0.0	2.0	R
9 CO97043-14W	5.0	6.7	5.3	8.8	57.5	1174	10	S	48.0	--	5.0	2.2	R
10 CO97065-7W	8.8	9.0	8.0	8.8	22.5	1222	3	S	39.0	--	5.0	3.5	R
MEANS	5.5	7.2	4.4	8.7	25.0	1188	14		33.2	14.9	5.3	2.8	
LSD @ .05	2.2		2.3	0.7	26.2	175			23.0			1.6	

1 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 0 to 5, Where 0=None; 1=mild symptoms, sample would not be out of grade to disease defect; 2= moderate symptoms, 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.

3a Scores are from 2005

1 Metribuzin Reaction measured at Aberdeen, ID

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

TABLE 13: 2006 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	24.7	0.03	0.19	7.0	21.3	5.0
2 CHIPETA	22.3	0.05	0.19	7.2	23.3	2.3
3 IVORY CRISP	24.0	0.01	0.19	7.8	20.0	1.2
4 AC97097-14W	24.4	0.00	0.14	7.1	22.6	6.5
5 ATTX95490-2W	15.9	0.27	0.16	6.8	19.5	1.3
6 B0766-3T	25.0	0.03	0.16	6.5	20.6	4.8
7 CO95051-7W	25.0	0.00	0.18	8.1	18.7	10.6
8 CO96141-4W	23.6	0.01	0.13	7.2	21.1	1.8
9 CO97043-14W	21.8	0.01	0.16	7.6	14.9	5.9
10 CO97065-7W	23.4	0.00	0.12	7.2	22.7	3.4
Means	23.0	0.04	0.16	7.2	20.5	4.3

FWB = fresh weight basis DWB = dry weight basis

Glycoalkaloids: The 2006 Lenape check from Aberdeen was 32.9 mg/100g

TABLE 14: 2006 Western Regional Chipping Potato Variety Trial - MERIT SCORES (1-5(best))

No.	Clone	Fresh Merit				Processing Merit					
		CO	ID	TX	Means	HRE	CO	ID	CV	HRL	Means
1	ATLANTIC	2.0	3.0	3.5	2.8	2.0	2.0	2.0	3.0	2.5	2.4
2	CHIPETA	4.0	3.0	3.6	3.5	3.0	5.0	2.5	4.0	3.0	3.6
3	IVORY CRISP	1.0	3.3	4.1	2.8	4.0	2.0	3.5	5.0	4.0	3.6
4	AC97097-14W	2.0	4.0	2.9	3.0	1.0	4.0	2.0	3.0	1.0	2.5
5	ATTX95490-2W	3.0	1.0	2.0	2.0	1.0	1.0	1.0	2.0	1.0	1.3
6	B0766-3T	3.0	3.3	4.0	3.4	4.0	5.0	3.0	5.0	2.0	3.8
7	CO95051-7W	1.0	4.3	3.0	2.8	3.0	3.0	4.0	4.0	4.5	3.9
8	CO96141-4W	2.0	4.3	3.5	3.3	3.0	3.0	4.0	5.0	2.0	3.5
9	CO97043-14W	1.0	3.0	3.4	2.5	2.5	2.0	4.2	5.0	2.0	3.3
10	CO97065-7W	1.0	4.8	3.9	3.2	3.0	2.0	3.8	4.0	2.5	3.1
Location Means		2.0		3.4	2.9	2.7	2.9	3.0	4.0	2.5	3.1

Entry **Clone** **Hermiston Early Trial** length/idth/dep tubers/
width ratio plant

1	Atlantic		1.09	1.30	7.4
2	Chipeta	soft rot	1.17	1.18	7.8
3	Ivory Crisp		0.99	1.26	8.0
4	AC97097-14W	long, little soft rot	1.43	1.24	9.1
5	ATTX95490-2W	soft rot	1.27	1.19	9.9
6	B0766-3T	very smooth, soft rot	1.09	1.23	8.3
7	CO95051-7W	soft rot	1.15	1.32	7.6
8	CO96141-4W	long	1.39	1.25	6.9
9	CO97043-14W	nice	1.05	1.24	7.1
10	CO97065-7W		0.97	1.25	7.6

Idaho Comments

1	Atlantic	big scab	1.095	1.33	
2	Chipeta	big knobs	1.232	1.47	
3	Ivory Crisp	cracked green	0.928	1.22	
4	AC97097-14W	scab some misshaped	1.241	1.51	
5*	ATTX95490-2W	long rough knobs	1.212	1.53	
6	B0766-3T	deep eyes	1.193	1.39	
7	CO95051-7W	nice	1.144	1.40	
8	CO96141-4W	small buff flat	1.239	1.51	
9	CO97043-14W	deep bud ends	0.923	1.23	
10	CO97065-7W	nice	0.998	1.19	

Texas Comments

1	Atlantic	heat sprouts, buff, yield-, nice shape and skin, poor internals
2	Chipeta	rough, oversize, heat sprouts, growth cracks, yield-, nice, best of trial
3	Ivory Crisp	nice, uniform, nice shape, skin, and internals++, bud cracks+, buff, best of trial
4	AC97097-14W	uniform, small, variable shape, road map, yield-, buff, nice shape, hollow heart++, poor internals
5	ATTX95490-2W	oversize, rough, yield+, oversized, poor shape, poor internals, drop++, heat sprouts, stem attachments
6	B0766-3T	nice, uniform, buff, yield+, bud cracks, nice shape and skin, nice internals, best of trial
7	CO95051-7W	small, heavy set, yield-, nice internals
8	CO96141-4W	uniform, nice shape, yield+, small, nice internals++, yield+
9	CO97043-14W	uniform, yield, flat chain tubers, rough, nice, stem attachment, nice shape, skin and internals, best of trial
10	CO97065-7W	buff, growth cracks, oversized, uniform, nice, bud cracks, nice shape, and skin, xcellent internals, best of trial

Hermiston Late Trial length/idth/dept tubers/
width ratio plant

		1.04	1.31	8.0
		1.18	1.22	10.8
		0.91	1.25	12.5
	POOR SKIN, SOFT ROT	1.27	1.26	7.8
	GROWTH CRACK BOTTLENECKS, K	1.20	1.28	9.1
	COARSE FEATHERY RUSSET, ATTA	1.00	1.27	11.7
	NICE, SMOOTH	1.05	1.32	10.8
	SMOOTH	1.23	1.28	7.9
	ATTACHED STEMS, SMOOTH	0.90	1.24	10.0
	POOR SKIN	0.98	1.16	9.5

KFCComments

RKN, 10% hard bite
 Sticky stolons, 2% hard bite
 Nice, 2% hard bite
 Pointy, poor, 10% hard bite
 Poor, sprouts, 2% hard bite
 fair
 Nice, Low yield, 20% hard bite
 4% hard bite
 fair
 FBE, RKN, 8% hard bite

Yields lower than normal. Hot weather stressed plants which resulted in lower quality tubers compared to average. Tuber malformations such as points, pear-shapes, bottleneck and dumbbell shaped tubers were much more prominent than usual. A few varieties had relatively poor emergence. Fertility inputs were slightly higher than normal which delayed maturity slightly.

This trial was subjected to higher than normal temperature during May and June. Lower than normal precipitation was recorded during the first 3 weeks of April, the last two weeks of May, and the first three weeks of June. Higher than normal precipitation was recorded during the last week of June, the first week of July, and the first and last weeks of August

1326 Chip Trial
11/13/2006

Cooked 10/19/06

WR #	Variety	IREC Plot	Tuber				Wet		FL.		# Tubers	Sample Wt. grams
			SFA Score	Temp High	Solids	SG	Wt.	Wt. Diff	Solids	Dry Wt.		
1	Atlantic	178	2	51.8	20.1642	1.099	15.45	155.85	20.16421	171.3	23	208
2	Chipeta	174	2	52.9	19.2737	1.094	16.75	177.65	19.27374	194.4	24	324
3	Ivory Crisp	175	1	53.2	21.0547	1.104	16.2	154.7	21.05467	170.9	22	278
4	AC97097-14W	177	1	54	20.5204	1.101	15.7	154.75	20.52039	170.45	23	250
5	ATTX95490-2W	172	3	55	13.2186	1.06	9.05	149.5	13.21858	158.55	27	229
6	B0766-3T	181	2	53.1	21.4109	1.106	16.5	155	21.41086	171.5	24	321
7	CO95051-7W	171	1	54.3	20.8766	1.103	17.45	168.05	20.87658	185.5	25	329
8	CO96141-4W	182	2	53.3	17.6709	1.085	13.5	157.65	17.6709	171.15	27	293
9	CO97043-14W	173	1	54.1	18.2052	1.088	15.95	180.2	18.20518	196.15	22	286
10	CO97065-7W	180	2	55.8	19.0957	1.093	16.75	179.65	19.09565	196.4	25	8.60%