

2016 WESTERN REGIONAL CHIPPING POTATO TRIAL REPORT

State Agricultural Experiment Stations and the
USDA-ARS

California
Colorado
Idaho
Oregon
Texas



2016 WESTERN REGIONAL CHIPPING POTATO VARIETY TRIAL REPORT

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TABLE 1: 2016 Western Regional Chipping Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

Locations	Cooperators	Trial	Irrigation	Fertilizer N-P-K-S(lb/A)	Spacing	Planting Date	Vine Kill Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Insecticides	Fungicides
Tulelake California (CA)	R. Wilson D. Culp	Late	Sprink.	185-0-100	10" x 36"	18-May	8-Sep	29-Sep	113	134	Prowl H2O Outlook Roundup PM Matrix	Vydate	Omega Tanos
San Luis Valley Colorado (CO)	D. Holm C. Gray K. Zavislan	Late	Pivot	117N-60P-80K-25S-2.5Zr	12" x 34"	20-May	30-Aug	27-Sep	102	130	Dual II Magnum Boundry Brawl II	Leverage 360 Mineral Oil	Quadris Opti Bravo Ultrex Endura
Aberdeen Idaho (ID)	J. Stark R. Novy J. Whitworth C. Lowder J. Hatch	Late	Sprink.	197-170-0-10Zn-5Mn	10.6" x 36"	4-May	1-Sep	21-Sep	120	140	TriCor 4F Matrix Eptam 7-E	Admire	
Hermiston Oregon (HRM)	V. Sathuvalli	Early	Pivot	190-375-90-25Mg-3B-2.2	9.25" x 34"	25-Mar	29-Jul	15-Aug	126	143	Vapam Dual Magnum Matrix Outlook Prowl	Admire Coragen Agr-Mek Echo	Quadris Ridomil Omega Dithane
Klamath Falls Oregon (KF)	B. Charlton N. Baley	Late	Sprink.	184-158-208-2.25 Boron	9.25" x 36"	23-May	6-Sep	29-Sep	106	129	Prowl Matrix Outlook	Leverage 360	Ridomil/Bravo Tanos
Dalhart Texas (DTX)	J. C. Miller, Jr. J. Koym D. Schuering	Early	Pivot	263-218-227	10.2" x 28"	4-May	10-Sep	10-Oct	129	159	Select Max Chateau Brawl Acumen Tricor Marix SG Reglone	Beleaf Fulfill Movento Reaper Torac Grandevo Sivanto 200SL	Quadris Penncozeb Bravo Revus Top Scala SC Curzate 60DF Gavel Orondis Opti A Plantinum Copper Ranman
Springlake Texas (STX)	J. C. Miller, Jr. J. Koym D. Schuering	Early	Pivot	133-28-28	9" x 36"	3-Apr	18-Jul	25-Jul	125	130	Roundup Dual Matrix Stealth	Movento Blackhawk Cruiser Maxx Sivanto Enzo Scorpion Torac Venom	Scala Copper Quadris Tanos Echo Revus

TABLE 2: 2016 Western Regional Chipping Potato Variety Trial - CLONE, PARENTS, FLOWER COLOR, ENTERED BY, YEARS IN TRIAL, 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	Red-purple	Check	Ck	OR	96	2.2 Oval	2.3 Buff	3.6 Med-large	3.0 Med Early	2.5
2 SNOWDEN	Lenape Wischip	White	Check	Ck	OR	98	2.1 Oval	2.5 Buff	3.8 Med-large	3.2 Medium	3.1
3 AC05153-1W	A91814-5 Chipeta	White	CO	3	CO	94	2.1 Oval	1.3 White	3.0 Medium	2.2 Early	3.2
4 AOR09034-3	Boulder A03449-2C	White	OR	1	OR	95	2.2 Oval	1.7 White	3.8 Med-large	3.1 Medium	2.6
5 CO07070-10W	B0766-3T CO00188-4W	Light purple	CO	1	CO	98	3.2 Oblong	1.5 White	3.4 Med-large	2.4 Early	3.2
6 CO07070-13W	B0766-3T CO00188-4W	White	CO	1	CO	97	2.0 Round	1.6 White	2.9 Medium	2.1 Early	3.6
7 NDA081453CAB-2C	Dakota Diamond ND 039173CAB-22	White	ID	1	ID	98	2.0 Round	1.3 White	3.0 Medium	2.9 Med Early	2.5
8 NDTX071109C-01W	ND 7226C-17 ND860-2	White	TX	1	NE	95	2.1 Oval	1.3 White	2.8 Medium	1.9 Early	2.3
9 NDTX081648CB-13W	ND 8456-1 ND7377CB-1	Red-purple	TX	1	NE	97	2.0 Round	1.6 White	3.9 Med-large	3.5 Medium	3.7
10 NDTX091908AB-02W	Ebt 6-21-5 ND 7519-1	Red-purple	TX	1	NE	97	2.7 Oval	1.2 White	3.2 Med-large	2.7 Med Early	3.5
11 OR09256-2	Dakota Diamond Russet Norkotah	white	OR	2	OR	99	2.1 Oval	2.6 Buff	3.5 Med-large	2.8 Med Early	2.5
12 OR09253-1	Dakota Diamond CO97065	Lavender	OR	1	OR	99	2.2 Oval	1.6 White	4.0 Med-large	4.0 Med-late	2.5
13 TX09396-1W	Atlantic NY139	Red-purple	TX	1	NE	99	2.3 Oval	1.5 White	3.9 Med-large	4.6 Very Late	1.8

1 Numerical values are means of all trial locations. Stand % for Klamath Falls was taken at 30 days.

2 1.0-2.0=Round, 2.1-2.5=Oval, 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: 2016 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	HRM	KF	DTX	STX			CA	CO	ID	HRM	KF	DTX	STX		
1 ATLANTIC	455	465	401	740	262	614	323	466	4	386	420	339	643	104	495	198	369	2
2 SNOWDEN	374	460	350	805	323	536	259	444	8	270	388	264	697	182	392	106	328	6
3 AC05153-1W	371	328	323	463	345	453	233	359	13	238	233	202	369	167	341	78	233	13
4 AOR09034-3	370		494	727	307	588	254	457	6	271		412	620	182	449	30	327	7
													84	85	59	76		
5 CO07070-10W	364	359	322	652	320	524	189	390	11	260	277	235	487	164	350	47	260	12
													72	77	72	75		
6 CO07070-13W	394	389	323	693	416	535	355	444	9	230	319	237	560	204	391	159	300	11
													58	82	73	81		
7 NDA081453CAB-2C	457	399	434	607	282	512	286	425	10	373	333	373	428	162	412	93	311	9
													82	84	86	70		
8 NDTX071109C-01W	368	376	277	540	284	571	278	385	12	321	338	226	491	157	507	206	321	8
													87	90	81	91		
9 NDTX081648CB-13W	399	415	380	877	373	531	288	466	3	321	344	268	730	203	355	91	330	5
													80	83	70	83		
10 NDTX091908AB-02W	471	445	409	899	378	538	399	506	1	335	357	311	831	190	392	125	363	3
													71	80	76	92		
11 OR09256-2	402	441	496	731	387	557	175	456	7	314	352	394	384	250	391	37	303	10
													78	80	79	53		
12 OR09253-1	336		560	879	348	590	165	479	2	279		484	884	199	439	46	388	1
													83		86	101		
13 TX09396-1W	417	477	364	670	391	599	304	460	5	345	421	293	537	237	470	149	350	4
													83	88	79	80		
Location Mean	415	434	420	724	333	568	276	454		336	370	346	600	185	444	122	344	
										81	85	82	82	55	78	43		

TABLE 4: 2016 Western Regional Chipping Potato Variety Trial - YIELD OF U.S. #1'S >10 OZ. & YIELD <4OZ. (CWT/A & %)

No. Clone	U.S. No. 1's > 10 OZ (CWT/A) / %								Yield < 4 OZ (CWT/A) / %									
	CA	CO	ID	HRM	KF	DTX	STX	Entry		CA	CO	ID	HRM	KF	DTX	STX	Entry	
								Mean	Rank								Mean	Rank
1 ATLANTIC	93	124	94	288	108	96	10	116	2	54	41	49	69	35	109	125	69	12
	20	27	24	39	41	16	3	24	1	12	9	12	9	13	18	39	16	12
2 SNOWDEN	24	101	26	185	36	34	0	58	9	101	71	82	96	99	144	153	106	8
	6	22	7	23	11	6	0	11	9	27	15	24	12	31	27	59	28	8
3 AC05153-1W	24	32	13	112	11	19	9	31	12	123	91	110	68	164	112	155	118	5
	6	10	4	24	3	4	4	8	12	33	28	34	15	47	25	67	35	1
4 AOR09034-3	31		119	156	44	43	0	65	8	71		73	153	71	138	224	122	3
	8		24	21	14	7	0	13	6	19		15	21	23	24	88	32	3
5 CO07070-10W	24	32	50	79	21	6	0	30	13	99	81	73	115	115	174	142	114	6
	7	9	14	12	6	1	0	7	13	27	23	24	18	36	33	75	34	2
6 CO07070-13W	6	57	56	227	46	12	0	58	10	160	66	73	83	165	144	196	127	2
	2	15	17	33	11	2	0	11	8	41	17	23	12	40	27	55	31	4
7 NDA081453CAB-2C	45	70	115	147	39	64	0	69	6	76	61	41	71	70	99	193	87	9
	10	18	26	24	14	12	0	15	5	17	15	10	12	25	19	67	24	10
8 NDTX071109C-01W	78	74	32	226	89	111	0	87	4	40	38	49	39	36	55	72	47	13
	21	20	11	42	31	19	0	21	3	11	10	18	7	13	10	26	14	13
9 NDTX081648CB-13W	49	67	28	378	9	15	0	78	5	70	68	108	63	160	176	197	120	4
	12	16	7	43	2	3	0	12	7	18	16	29	7	43	33	68	31	5
10 NDTX091908AB-02W	23	63	44	266	21	41	0	65	7	126	82	88	61	157	145	274	133	1
	5	14	11	30	6	8	0	10	10	27	18	21	7	42	27	69	30	7
11 OR09256-2	31	55	79	92	37	40	0	48	11	84	85	91	132	100	165	138	114	7
	8	12	16	13	10	7	0	9	11	21	19	18	18	26	30	79	30	6
12 OR09253-1	52		134	334	71	39	0	105	3	44		50	70	71	151	118	84	10
	16		22	38	21	7	0	17	4	13		9	8	21	26	72	25	9
13 TX09396-1W	69	217	94	368	31	108	2	127	1	60	40	55	43	112	109	155	82	11
	17	45	24	55	8	18	1	24	2	14	8	16	6	29	18	51	20	11
Location Mean	43	89	62	239	39	47	2	75		77	64	75	76	105	143	166	101	
	12	23	16	34	14	9	1	15		19	14	19	10	29	25	62	26	

TABLE 5: 2016 Western Regional Chipping Potato Variety Trial - SPECIFIC GRAVITY

No. Clone	Specific Gravity							Entry Mean	Rank
	CA	CO	ID	HRM	KF	DTX	STX		
1 ATLANTIC	1.098	1.103	1.097	1.083	1.106	1.075	1.093	1.093	3
2 SNOWDEN	1.091	1.096	1.092	1.080	1.098	1.064	1.079	1.086	10
3 AC05153-1W	1.093	1.087	1.090	1.075	1.094	1.078	1.086	1.086	9
4 AOR09034-3	1.094		1.094	1.072	1.104	1.075	1.085	1.087	5
5 CO07070-10W	1.106	1.107	1.110	1.088	1.107	1.083	1.099	1.100	1
6 CO07070-13W	1.094	1.091	1.091	1.071	1.095	1.070	1.077	1.084	11
7 NDA081453CAB-2C	1.090	1.093	1.091	1.077	1.098	1.072	1.084	1.086	8
8 NDTX071109C-01W	1.074	1.077	1.071	1.058	1.080	1.054	1.071	1.069	13
9 NDTX081648CB-13W	1.091	1.094	1.090	1.075	1.097	1.075	1.085	1.087	7
10 NDTX091908AB-02W	1.077	1.087	1.081	1.071	1.092	1.051	1.077	1.077	12
11 OR09256-2	1.091	1.093	1.093	1.073	1.094	1.079	1.084	1.087	6
12 OR09253-1	1.105		1.103	1.091	1.109	1.078	1.093	1.097	2
13 TX09396-1W	1.097	1.100	1.090	1.081	1.108	1.076	1.087	1.091	4
Location Mean	1.092	1.093	1.092	1.077	1.099	1.071	1.085	1.087	

TABLE 6: 2016 Western Regional Chipping Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

No. Clone	Average Tuber Size (oz)							Tuber Shape ¹																	
	CA	ID	HRM	KF	DTX	STX	Entry Mean	Length/ Width	Length/ Width	Length/ Width	Length/ Width	Length/ Width	Entry Mean	Width/ Thick	Width/ Thick	Width/ Thick	Entry Mean	(1-5, 1 = round, 5 = long)						Entry Mean	
								CA	CO	ID	HRM	KF		CO	HRM	KF		CA	CO	ID	HRM	KF	DTX		STX
1 ATLANTIC	6.1	6.4	6.9	6.9	4.3	3.4	5.7	1.04	1.07	0.96	1.07	1.11	1.05	1.21	1.32	1.21	1.25	2.5	1.0	1.8	2.5	2.6	2.5	2.5	2.2
2 SNOWDEN	4.6	4.6	6.0	4.6	3.6	2.4	4.3	0.90	0.97	0.97	0.94	1.00	0.96	1.26	1.36	1.23	1.28	2.9	1.0	1.9	1.5	2.6	2.0	2.5	2.1
3 AC05153-1W	4.2	4.0	5.6	3.5	3.4	2.8	3.9	0.98	1.08	0.99	0.94	1.08	1.02	1.28	1.32	1.24	1.28	2.6	1.0	1.6	1.8	2.5	2.5	2.5	2.1
4 AOR09034-3	5.3	6.0	4.9	5.0	3.4	1.7	4.4	0.96		0.92	0.96	0.99	0.96		1.26	1.16	1.21	2.1		1.5	1.9	2.8	2.5	2.5	2.2
5 CO07070-10W	4.6	4.8	5.1	4.3	2.9	2.1	4.0	1.10	1.08	1.12	1.06	1.17	1.10	1.18	1.19	1.15	1.18	2.8	1.0	2.1	2.4	3.0	2.5	2.0	2.3
6 CO07070-13W	3.9	4.7	6.3	3.9	3.3	2.7	4.1	0.93	1.02	0.94	0.93	1.06	0.98	1.22	1.24	1.08	1.18	2.3	1.0	1.6	2.4	2.4	2.0	2.5	2.0
7 NDA081453CAB-2C	5.3	6.6	5.9	5.3	4.1	2.3	4.9	1.01	1.01	1.05	0.98	1.08	1.03	1.30	1.34	1.18	1.27	2.4	1.0	2.0	1.5	2.9	2.0	2.5	2.0
8 NDTX071109C-01W	6.1	5.9	7.2	6.7	5.5	3.6	5.8	0.90	0.96	0.88	0.84	0.95	0.91	1.19	1.33	1.21	1.24	2.5	1.0	2.0	1.8	2.5	2.5	2.5	2.1
9 NDTX081648CB-13W	5.3	4.5	7.0	3.9	2.9	2.3	4.3	0.98	1.14	1.02	1.04	1.14	1.07	1.31	1.47	1.25	1.34	2.3	1.0	2.1	1.5	2.9	2.0	2.5	2.0
10 NDTX091908AB-02W	4.6	5.0	6.9	4.1	3.4	2.3	4.4	1.33	1.39	1.30	1.36	1.30	1.34	1.13	1.19	1.13	1.15	3.9	2.0	2.5	3.6	3.1	1.0	2.5	2.7
11 OR09256-2	5.0	5.4	5.2	4.8	3.2	2.1	4.3	1.14	1.12	1.10	0.99	1.08	1.09	1.18	1.23	1.14	1.18	2.6	1.0	2.0	2.3	2.5	2.0	2.5	2.1
12 OR09253-1	5.8	6.2	7.1	5.6	3.6	1.6	5.0	0.93		0.86	0.95	0.98	0.93		1.22	1.20	1.21	2.4		2.1	2.0	2.5	2.0	2.0	2.2
13 TX09396-1W	5.7	6.0	8.2	4.8	4.6	3.0	5.4	0.98	1.10	1.22	1.10	1.04	1.09	1.28	1.31	1.20	1.26	2.6	1.0	2.4	2.3	2.6	2.5	2.5	2.3
Location Mean	5.1	5.4	6.3	4.9	3.7	2.5	4.7	1.01	1.09	1.03	1.01	1.08	1.04	1.23	1.29	1.18	1.23	2.6	1.1	2.0	2.1	2.7	2.2	2.4	2.2

TABLE 7: 2016 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								Greening ¹						Shatter Bruise					Scab ¹						
	CA ²	CO	ID	HRM	KF	DTX	STX	Entry Mean	CA ²	CO	ID	HRM	KF	DTX	STX	Entry Mean	CA ²	CO	HRM	KF	DTX	STX	Entry Mean	HRM	KF	DTX	STX	Entry Mean	ID ³	ID	HRM	DTX	STX	Entry Mean
1 ATLANTIC	0.2	4.0	5.0	5.0	4.4	5.0	5.0	4.7	0.2	5.0	5.0	4.9	4.8	5.0	5.0	4.9	2.0	4.0	4.4	4.5	5.0	5.0	4.6	4.8	4.8	5.0	5.0	4.8	2.6	3.8	4.8	5.0	5.0	4.6
2 SNOWDEN	0.1	5.0	5.0	5.0	4.8	5.0	5.0	5.0	0.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.6	5.0	4.4	4.4	5.0	5.0	4.8	4.8	4.6	5.0	5.0	4.8	2.5	3.8	4.9	5.0	5.0	4.7
3 AC05153-1W	0.5	5.0	4.9	4.1	5.0	5.0	5.0	4.8	0.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.4	4.0	4.9	4.4	5.0	5.0	4.7	3.6	4.1	5.0	5.0	4.3	2.6	4.0	4.4	5.0	5.0	4.6
4 AOR09034-3	3.3		4.9	4.3	4.3	5.0	5.0	4.7	0.4		5.0	4.5	4.9	5.0	5.0	4.9	1.8		4.3	4.8	5.0	5.0	4.8	3.4	3.8	5.0	5.0	4.0	1.7	4.1	4.1	5.0	5.0	4.6
5 CO07070-10W	0.4	4.0	5.0	5.0	4.4	5.0	5.0	4.7	0.1	5.0	5.0	4.9	5.0	5.0	5.0	5.0	0.4	4.0	4.9	3.8	5.0	5.0	4.5	4.5	4.9	5.0	5.0	4.8	2.6	4.4	3.5	5.0	5.0	4.5
6 CO07070-13W	0.3	5.0	4.8	4.6	5.0	5.0	5.0	4.9	0.3	4.0	5.0	5.0	4.9	5.0	5.0	4.8	0.2	4.0	4.8	4.9	5.0	5.0	4.7	3.9	4.3	5.0	5.0	4.4	2.3	3.5	3.9	5.0	5.0	4.3
7 NDA081453CAB-2C	0.1	4.0	5.0	5.0	5.0	5.0	5.0	4.8	0.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.5	4.0	5.0	4.4	5.0	5.0	4.7	4.1	3.9	5.0	5.0	4.3	2.4	4.4	4.8	5.0	5.0	4.8
8 NDTX071109C-01W	0.1	5.0	5.0	5.0	4.9	5.0	5.0	5.0	0.3	5.0	5.0	4.9	4.9	5.0	5.0	5.0	1.0	5.0	4.8	4.8	5.0	5.0	4.9	4.6	4.9	5.0	5.0	4.8	2.1	3.8	4.9	5.0	5.0	4.7
9 NDTX081648CB-13W	0.0	5.0	5.0	5.0	4.9	5.0	5.0	5.0	0.1	5.0	5.0	4.5	4.9	5.0	5.0	4.9	1.8	4.0	4.4	4.8	5.0	5.0	4.6	4.6	4.9	5.0	5.0	4.8	2.8	3.6	4.5	5.0	5.0	4.5
10 NDTX091908AB-02W	0.4	4.0	4.9	5.0	4.4	5.0	5.0	4.7	0.2	5.0	5.0	4.9	4.9	5.0	5.0	5.0	0.6	4.0	4.8	3.9	5.0	5.0	4.5	4.5	4.9	5.0	5.0	4.8	2.5	3.3	4.5	5.0	5.0	4.4
11 OR09256-2	0.3	5.0	5.0	4.9	5.0	5.0	5.0	5.0	0.2	5.0	5.0	4.9	5.0	5.0	5.0	5.0	0.1	4.0	4.8	5.0	5.0	5.0	4.8	5.0	4.3	5.0	5.0	4.8	3.1	4.4	4.3	5.0	5.0	4.7
12 OR09253-1	0.0		4.8	5.0	4.5	5.0	5.0	4.9	0.1		5.0	4.4	4.9	5.0	5.0	4.9	4.4		4.4	4.0	5.0	5.0	4.6	4.6	4.9	5.0	5.0	4.8	2.1	4.3	4.8	5.0	5.0	4.8
13 TX09396-1W	0.0	5.0	4.9	5.0	5.0	5.0	5.0	5.0	0.1	5.0	5.0	4.6	4.5	5.0	5.0	4.9	3.5	3.0	4.0	4.5	5.0	5.0	4.3	5.0	5.0	5.0	5.0	5.0	3.0	4.6	4.3	5.0	5.0	4.7
Location Mean	0.4	4.6	4.9	4.8	4.7	5.0	5.0	4.9	0.2	4.9	5.0	4.8	4.9	5.0	5.0	4.9	1.3	4.1	4.6	4.5	5.0	5.0	4.6	4.4	4.5	5.0	5.0	4.7	2.5	4.0	4.4	5.0	5.0	4.6

¹ Score 1-5, with 1=severe, 5=none.

²Tulelake, CA percent of total

³Aberdeen, ID shatter scores obtained from bruise evaluation conducted using a shatter chamber [1-5(none)].

TABLE 8: 2016 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 ¹								
		CA	CO	ID	HRM	KF	DTX	STX	Entry Mean	ID	HRM	KF	DTX	STX	Entry Mean	CA	ID	HRM	KF	DTX	STX	Entry Mean	CA	CO	HRM	DTX	STX	ID ²
1	ATLANTIC	0	2	20	13	3	60	0	14	0	0	0	70	0	14	0	0	0	3	0	0	0	0.0	2.4	3.3	5.0	5.0	3.7
2	SNOWDEN	0	0	0	5	0	10	0	2	0	0	0	0	0	0	10	0	3	0	0	0	2	0.0	3.0	3.6	5.0	5.0	1.8
3	AC05153-1W	0	0	3	0	3	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	1	0.0	3.9	3.9	5.0	5.0	3.0
4	AOR09034-3	0		8	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7.5		4.5	5.0	5.0	3.2
5	CO07070-10W	0	0	0	0	0	0	0	0	0	3	0	0	0	1	8	0	0	0	0	0	1	7.5	3.1	3.6	5.0	5.0	2.9
6	CO07070-13W	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	7.5	4.1	4.5	5.0	5.0	3.2
7	NDA081453CAB-2C	0	0	3	0	3	0	0	1	0	13	0	0	0	3	3	0	0	0	0	0	0	2.5	4.7	4.8	5.0	5.0	3.2
8	NDTX071109C-01W	3	1	3	0	5	0	0	2	0	0	0	0	0	0	15	0	0	0	0	0	3	0.0	4.7	4.8	5.0	5.0	2.7
9	NDTX081648CB-13W	0	0	0	0	0	0	0	0	0	15	0	0	0	3	3	0	3	0	0	0	1	2.5	4.8	4.3	5.0	5.0	3.7
10	NDTX091908AB-02W	0	0	5	18	0	0	0	3	5	5	0	0	0	2	10	5	0	0	0	0	3	5.0	4.8	4.9	5.0	5.0	2.7
11	OR09256-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	2.5	4.6	4.8	5.0	5.0	2.4
12	OR09253-1	0		5	0	0	0	0	1	0	0	0	0	0	0	10	0	0	0	0	0	2	0.0		4.1	5.0	5.0	3.0
13	TX09396-1W	0	4	0	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	2.5	4.0	3.8	5.0	5.0	2.9
Location Mean		0	1	3	3	1	5	0	2	0	3	0	5	0	2	6	0	0	0	0	0	1	2.9	4.0	4.2	5.0	5.0	2.9

¹ Score 1-5, with 1=severe, 5=none.

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

TABLE 9: 2016 Western Regional Chipping Potato Variety Trial - CHIP COLOR

No. Clone	TX ¹		CO ¹				ID ¹			50 ² Mean
	Chip 40		Chip 40		Chip 50		Chip 40		Chip 50	
	a	Recon ^b	a	Recon ^b	c	Recon ^d	a	Recon ^b	c	
1 ATLANTIC	5.0	5.0	6.0	4.0	3.0	3.5	4.9	2.4	3.0	3.0
2 SNOWDEN	5.0	4.0	5.0	2.0	3.0	4.0	4.4	2.2	2.9	3.0
3 AC05153-1W	3.0	3.0	5.0	4.0	3.5	1.0	3.7	2.1	2.3	2.9
4 AOR09034-3	4.0	4.0					4.8	2.7	2.4	2.4
5 CO07070-10W	3.0	2.0	4.0	3.5	2.0	3.5	3.6	2.5	2.8	2.4
6 CO07070-13W	4.0	2.0	5.0	3.5	2.0	3.5	3.8	2.3	2.4	2.2
7 NDA081453CAB-2C	5.0	4.0	4.0	5.0	3.0	3.5	4.8	2.7	3.1	3.0
8 NDTX071109C-01W	5.0	5.0	4.0	3.0	3.0	3.0	3.9	2.3	2.3	2.6
9 NDTX081648CB-13W	5.0	4.0	5.5	5.0	4.0	3.0	4.5	2.3	2.4	3.2
10 NDTX091908AB-02W	4.0	4.0	5.0	4.0	2.0	3.0	3.6	2.1	2.3	2.1
11 OR09256-2	5.0	5.0	6.0	5.0	4.0	3.0	4.8	3.0	3.4	3.7
12 OR09253-1	4.0	4.0					4.6	3.1	2.3	2.3
13 TX09396-1W	4.0	4.0	5.5	3.5	2.0	1.0	4.8	2.3	2.8	2.4
Location Means	4.3	3.8	5.0	3.9	2.9	2.9	4.3	2.5	2.6	2.7

¹ Color using Snack Food Association Color Standards for Potato Chips 2008 (1-6(darkest)).

^a Stored 8 weeks at 42°F (TX), 5 weeks (CO) and 6 weeks (ID) at 40°F.

^b Stored 8 weeks (TX) at 42°F plus 2 weeks at 60°F; stored 5 weeks (CO) at 40°F plus 3 weeks at 60°F; stored 6 weeks (ID) at 40°F plus 3 weeks at 60°F.

^c Stored 5 weeks (CO), 8 weeks (ID) at 50°F.

^d Stored 5 weeks (CO) at 50°F plus 3 weeks at 60°F; stored 10 weeks (HRM) at 50°F plus 3 weeks at 50-55°F.

² Mean for CO and ID

Table 10. 2016 Aberdeen Regional Chip Trial - SOLIDS, DEXTROSE, SUCROSE, PROTEIN, VITAMIN C, AND GLYCOALKALOIDS - ABERDEEN, IDAHO

No. Clone	Solids Oven Dry (%)	Sugars		Protein (%DWB)	Vitamin C (mg/100g FWB)	Glycoalkaloids ³ (mg/100gFWB)
		Dextrose ¹ (%FWB)	Sucrose ² (%FWB)			
1 Atlantic	23.5	0.011	0.110	6.99	23.6	3.2
2 Snowden	23.2	0.003	0.121	6.94	24.1	4.6
3 AC05153-1W	22.9	0.002	0.112	7.96	23.2	2.5
4 AOR09034-3	23.3	0.006	0.094	7.03	20.7	7.1
5 CO07070-10W	26.1	0.003	0.145	7.97	27.0	1.7
6 CO07070-13W	23.0	0.003	0.120	8.34	21.6	1.5
7 NDA081453CAB-2C	23.2	0.003	0.152	8.13	23.3	3.4
8 NDTX071109C-01W	18.7	0.001	0.066	7.26	21.6	2.9
9 NDTX081648CB-13W	22.9	0.006	0.142	7.72	18.3	2.9
10 NDTX091908AB-02W	21.4	0.002	0.104	7.39	22.3	4.1
11 OR09256-2	23.6	0.017	0.155	6.81	24.7	7.0
12 OR09253-1	25.0	0.003	0.170	7.69	18.5	21.5
13 TX09396-1W	23.8	0.004	0.158	7.32	20.1	3.4
Means	23.1	0.005	0.127	7.50	22.2	5.1

FWB = fresh weight basis DWB = dry weight basis

¹Desirable levels of Dextrose are $\leq 0.05\%$

²Sucrose levels of $\leq 0.15\%$ are excellent, 0.16-2.0% are good, and $\geq 2.1\%$ are fair to poor

³Glycoalkaloids: The 2016 Lenape check from Aberdeen was 20.23 mg/100g

TABLE 11: 2016 Western Regional Chipping Potato Variety Trial - DISEASE EVALUATIONS, METRIBUZIN REACTION

No. Clone	Vert. Wilt/Early Dying		Early Blight AB ¹				Common Scab AB ¹		% Net Necrosis/ vascular discoloration ¹		Rhizoc. KLAM ³	Pecto- bacterium Soft Rot ²	Metr. Reaction
	AB ¹		Foliar		Tuber		% Serious		%		(1-5=none) ³	AB	AB ²
	(0-9)*	AUDPC	(0-9)*	AUDPC	Incidence (%)	% Serious Defect	Incidence	Defect	Incidence (%)	Serious Defect		(0-5)	
1 Atlantic	7.0	473	3.3	53	0.0	0	29.4	12.9	27	0	3.0	1.3	R
2 Snowden	7.0	595	2.0	25	0.0	0	14.2	8.4	44	0	2.0	1.8	R
3 AC05153-1W	8.7	1068	4.0	162	0.0	0	29.5	13.4	38	0	4.0	4.5	R
4 AOR09034-3	6.3	368	2.7	39	0.0	0	49.8	18.2	26	0	2.4	3.3	MR
5 CO07070-10W	8.0	1033	3.7	72	1.0	0	34.1	16.7	56	0	4.0	3.1	MR
6 CO07070-13W	9.0	1173	3.0	50	0.0	0	33.8	19.2	46	6	3.6	3.7	MR
7 NDA081453CAB-2C	6.7	449	3.7	126	11.0	2	28.7	17.5	61	2	4.0	4.1	MR
8 NDTX071109C-01W	9.0	1190	2.0	22	0.0	0	32.1	22.6	35	0	5.0	5.0	R
9 NDTX081648CB-13W	7.3	642	3.3	70	0.0	0	41.1	27.8	33	0	4.9	1.0	MR
10 NDTX091908AB-02W	7.7	805	3.0	33	2.0	0	58.1	47.4	63	2	4.9	4.8	MR
11 OR09256-2	6.3	368	4.7	103	0.0	0	19.0	6.4	45	0	4.6	2.0	MR
12 OR9253-1	3.7	82	2.0	20	0.0	0	9.9	6.2	60	3	2.9	1.5	MR
13 TX09396-1W	2.7	32	1.7	16	10.0	0	27.8	11.4	52	3	5.0	1.0	S
MEANS	6.9	637	3.0	75	1.8	0	31.4	17.5	45	1	3.3	3.1	
LSD @ .05	1.2		1.2		6	ns	27.0	13.1	25	ns		2.1	

* 117 days after planting

¹ Evaluations made at Aberdeen, Idaho by Jonathan Whitworth, Hermiston, Oregon by Laurie LaRoux, Tulelake by Darrin Culp; 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 3 separate 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.

² For 0 to 5: 0=none, 5=severe as a combination of tuber area and degree impacted by Fusarium and Pectobacterium inoculations.

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

³ *Rhizoctonia solani* readings made by Brian Charlton, Klamath Falls, Oregon; scale as indicated with lowest number being most severe

TABLE 12: 2016 Western Regional Chipping Potato Variety Trial - MERIT SCORES (1-5(best))

No.	Clone	Fresh Merit							Process Merit			
		CA	CO	HRM	ID	DTX	STX	Entry Mean	CO	ID	HRM	Entry Mean
1	ATLANTIC	3.0	5.0	2.0	3.3	3.5	3.8	3.5	2.0	2.5	3.0	2.5
2	SNOWDEN	2.9	5.0	2.0	2.5	3.4	3.5	3.4	3.0	2.5	3.5	3.0
3	AC05153-1W	2.5	1.0	2.5	3.9	3.5	3.5	3.1	3.0	4.0	2.5	3.2
4	AOR09034-3	3.3		2.5	4.0	3.4	3.1	3.0		2.5	3.5	3.0
5	CO07070-10W	2.9	2.0	2.0	3.8	3.5	2.5	3.0	3.0	3.0	3.0	3.0
6	CO07070-13W	3.0	3.0	2.0	3.8	3.8	3.7	3.0	4.0	3.5	3.0	3.5
7	NDA081453CAB-2C	3.1	3.0	2.0	3.9	3.6	3.7	3.2	2.0	2.0	2.0	2.0
8	NDTX071109C-01W	2.5	3.0	3.0	3.4	3.6	3.7	3.3	4.0	3.5	3.0	3.5
9	NDTX081648CB-13W	2.9	3.0	2.5	3.8	3.7	3.3	3.3	2.0	2.5	3.5	2.7
10	NDTX091908AB-02W	2.4	4.0	4.0	3.8	4.5	4.0	3.7	5.0	4.0	3.0	4.0
11	OR09256-2	3.1	3.0	2.0	3.8	3.6	3.4	3.6	2.0	2.0	3.0	2.3
12	OR09253-1	2.9		2.0	3.1	3.0	3.0	3.0		2.5	3.5	3.0
13	TX09396-1W	2.9	5.0	2.0	3.6	3.6	3.8	3.2	4.0	2.5	3.0	3.2
Location Mean		2.9	3.4	2.3	3.6	3.6	3.5	3.3	3.1	2.8	3.0	3.0

TABLE 13: 2016 Western Regional Chipping Potato Variety Trial - SUMMARY

No.	Clone	Year in Trial	Total Yield ¹ Rank	US#1's Yield ¹ %	Tuber Size (oz)	Specific Gravity	Chip Color ²	Process Merit Score
1	ATLANTIC	CK	466 4	369 75	5.7	1.093	3.0	2.5
2	SNOWDEN	CK	444 8	328 70	4.3	1.086	3.0	3.0
3	AC05153-1W	3	359 13	233 62	3.9	1.086	2.9	3.2
4	AOR09034-3	1	457 6	327 65	4.4	1.087	2.4	3.0
5	CO07070-10W	1	390 11	260 63	4.0	1.100	2.4	3.0
6	CO07070-13W	1	444 9	300 66	4.1	1.084	2.2	3.5
7	NDA081453CAB-2C	1	425 10	311 70	4.9	1.086	3.0	2.0
8	NDTX071109C-01W	1	385 12	321 81	5.8	1.069	2.6	3.5
9	NDTX081648CB-13W	1	466 3	330 67	4.3	1.087	3.2	2.7
10	NDTX091908AB-02W	1	506 1	363 68	4.4	1.077	2.1	4.0
11	OR09256-2	2	456 7	303 64	4.3	1.087	3.7	2.3
12	OR09253-1	1	479 2	388 72	5.0	1.097	2.3	3.0
13	TX09396-1W	1	460 5	350 74	5.4	1.091	2.4	3.2

¹(CWT/A)²Mean for CO and ID stored at 50°F

TABLE 14: 2016 Western Regional Chipping Potato Variety Trial - 3 Year Summary of Graduating Entries

Clone	2014					2015					2016				
	Total Yield ¹	US#1's Yield ¹	Specific Gravity	Chip Color ²	Merit Score	Total Yield ¹	US#1's Yield ¹	Specific Gravity	Chip Color ²	Merit Score	Total Yield ¹	US#1's Yield ¹	Specific Gravity	Chip Color ²	Merit Score
	Rank	%				Rank	%				Rank	%			
ATLANTIC	410 4	325 78	1.086	2.7	2.8	425 3	338 77	1.089	3.5	2.7	466 4	369 75	1.093	3.0	2.5
SNOWDEN						450 2	350 73	1.081	3.5	2.7	444 8	328 70	1.086	3.0	3.0
AC05153-1W	369 7	271 73	1.081	1.8	3.3	343 7	234 67	1.081	2.4	3.2	359 13	233 62	1.086	2.9	3.2
Trial Mean	416	330 78	1.080	2	3.3	407	309 73	1.080	3.1	3.0	454	344 72	1.087	2.7	3.0

3 Year Average (2014-2016)

Clone	Total Yield ¹	US#1's		Chip Color ²	Merit Score	Noted Weaknesses	Noted Strengths
		Yield ¹	%				
ATLANTIC	434	344 77	1.089	3.1	2.6		
SNOWDEN	447	339 72	1.083	3.3	2.8		
AC05153-1W	357	246 67	1.083	2.4	3.2	low yield (3/3)	low internal and external defects (3/3)
Mean ³	426	328 74	1.082	2.6	3.1		

¹(CWT/A)

²Mean for CO and ID stored at 50°F

³Mean includes all trial entries 2014-2016

Comments and Information from States

Hermiston, Oregon ¹			Chip Color ³	Sugar Ends ³		
1	ATLANTIC	irregular x2, FBEx2, spr x1, sticky x1, rot x3	1.6	34.9		
2	SNOWDEN	FBE x3, deep eyes x3, netty x2, greening x1	2.3	30.9		
3	AC05153-1W	skinning x1, SB x3, GC x2, lenticels x1	1.6	33.3		
4	AOR09034-3	rot x4, sticky x1, pty x1, scab x2, SB x2	2.0	28.0		
5	CO07070-10W	scab x4, deep eyes x1, sticky x1, netty x1	1.9	22.4		
6	CO07070-13W	SB x 2, FBE x2, lenticels x 2, squeashy x1	2.5	34.5		
7	NDA081453CAB-2C	low yield x 2, flat, cracks x1, spr x1, sticky x1, SB x1	2.0	41.7		
8	NDTX071109C-01W	deep eyes x 1, folded x1, sticky x1, nice, skinning	1.8	21.0		
9	NDTX081648CB-13W	spr x4, FBE x2, chain x1, rot x1	2.1	27.8		
10	NDTX091908AB-02W	rot x1, not for chipping	2.0	18.8		
11	OR09256-2	netty x 2, prominent eyes x2, sticky x2, rot	2.3	33.0		
12	OR09253-1	lenticels x2, greening x1, spr x1, pear, sticky x1	2.5	36.1		
13	TX09396-1W	folded tubers x2, sticky x3, deep eyes, FBE x1, Pty x1	2.5	22.2		
Tulelake, California				AUDPC ²		
1	ATLANTIC			685.1		
2	SNOWDEN			665.9		
3	AC05153-1W			1140.8		
4	AOR09034-3			369.0		
5	CO07070-10W			1110.6		
6	CO07070-13W			1434.3		
7	NDA081453CAB-2C			790.0		
8	NDTX071109C-01W			1712.5		
9	NDTX081648CB-13W			226.1		
10	NDTX091908AB-02W			775.5		
11	OR09256-2			812.1		
12	OR09253-1			98.6		
13	TX09396-1W			111.8		
Aberdeen, Idaho Comments			Sugar Ends ⁴	Metribuzin	Early Blight	Vert Wilt
1	ATLANTIC	Green, rot, deep ends	11	R	3.4	1.9
2	SNOWDEN	Deep ends, some bumps/misshapen, few ats	14	R	4.1	1.9
3	AC05153-1W	Small, round, uniform, bad shatter, some green	6	R	2.4	2.3
4	AOR09034-3	Fairly uniform, few green, some shatter	22	MR	3.6	3.4
5	CO07070-10W	Fairly uniform, oblong, flattening, few green	17	MR	2.0	1.3
6	CO07070-13W	Round, deep ends, sprouts at 50 fry	6	MR	1.0	1.0
7	NDA081453CAB-2C	Flat, some shatter/ats	22	MR	3.5	1.9
8	NDTX071109C-01W	Deep ends, few bumps/flat	3	R	1.0	1.0
9	NDTX081648CB-13W	Fairly uniform, sprouts, few flat/ats	8	MR	4.1	3.8
10	NDTX091908AB-02W	Smooth, oblong, uniform	6	MR	4.0	1.8
11	OR09256-2	Few green/ats, some shatter	42	MR	3.0	2.6
12	OR09253-1	Flat, deep ends, green	11	MR	4.3	4.3
13	TX09396-1W	Flat, oblong, green	14	S	5.0	4.6

¹FBE=folded bud end, SB=shatter bruise.²Based on ratings taken 82, 93, 98, and 106 days after planting.³Fresh Chip (at harvest); Color rating using Snack Food Association Color Standards for Potato Chips 1999 (1-5(darkest)).⁴Sugar ends in percent

Comments and Information from States

Klamath Falls, Oregon Comments ¹			Rhizoc 1-5(none)	% CRS ²	% HB ³	
1	ATLANTIC	pointy stem ends, low set, irregular shape & size, folded butt ends, russeting, 1 rot, big growth cracks, TNC, pears	3.00	5	30.0	
2	SNOWDEN	TNC, small, scab x 4, dark, mechanical damage, rhizoc, russeting, lenticel scarring	2.00	0	15.0	
3	AC05153-1W	TNC x 2, small x 4, lenticel scarring x 2, blotchy skin	4.00	0	0.0	
4	AOR09034-3	TNC x 2, low set, small x 2, rhizoc x 2, pointy stem end, lenticel scarring, mechanical damage, shatter bruise, chicken tracks	2.38	0	7.5	
5	CO07070-10W	irregular size & shape, green, nice, small, lenticel scarring	4.00	0	17.5	
6	CO07070-13W	impact bruise, small x 3, typy, rhizoc	3.63	8	0.0	
7	NDA081453CAB-2C	irregular size x 2, rhizoc, CRS, lenticel scarring x 2, shatter bruise, TNC, nice, smooth	4.00	0	25.0	
8	NDTX071109C-01W	smooth x 2, folded butt ends x 2, impact bruise x 2, TNC, misshape	5.00	0	2.5	
9	NDTX081648CB-13W	flat x 3, small, lenticel scarring, irregular size, some pear shape	4.88	18	2.5	
10	NDTX091908AB-02W	smooth x 2, nice x 3, small, oblong, TNC, scab	4.88	0	0.0	
11	OR09256-2	typy x 3, flat, small, 1 rot, TNC, mechanical damage, nice, dark	4.63	0	7.5	
12	OR09253-1	scab x 2, lenticel scarring x 2, rhizoc, nice, typy	2.88	18	5.0	
13	TX09396-1W	a lot of small, 1 rot, pointy stem end x 3, sticky stolon x 2, TNC, impact bruise, NTN?	5.00	0	20.0	
Dalhart, Texas Comments			Sugar End Initial	Sugar Recon	Chip Color ⁴	Notes ⁴
1	ATLANTIC	large tubers, poor internals	100	100	1.0	
2	SNOWDEN	nice size, some rough	100	36	1.0	
3	AC05153-1W	some rough	100	0	1.0	
4	AOR09034-3	some rough	100	1	1.0	K-; 1 sugar
5	CO07070-10W	some rough	72	0	1.0	K; 1 GH
6	CO07070-13W	smooth, heavy set	48	0	1.0	
7	NDA081453CAB-2C	smooth	74	0	3.0	K
8	NDTX071109C-01W	large tubers, yield+, deep nose, rough	90	100	1.0	K
9	NDTX081648CB-13W	yield, nice shape and size, smooth, BOT-	100	60	1.0	drop
10	NDTX091908AB-02W	smooth, nice shape, BOT+	100	100	1.0	K
11	OR09256-2	buff, nice size	75	100	1.0	K-
12	OR09253-1	some rough, feathering	100	60	3.0	
13	TX09396-1W	some rough, nice size and shape	50	25	1.0	nice, 1 Mech
Springlake, Texas Comments ⁵					Chip Color ⁴	Notes ⁵
1	ATLANTIC	nice size and shape, poor internals			1.0	1GH
2	SNOWDEN	small, uniform, nice flesh			1.0	3GH
3	AC05153-1W				1.0	1G
4	AOR09034-3	low yield, small, uniform, smooth			1.0	
5	CO07070-10W	light set, low yield, smooth			1.0	BOT-
6	CO07070-13W	uniform, nice size and shape, ZC			1.0	NICE
7	NDA081453CAB-2C	uniform, smooth			2.0	4DK
8	NDTX071109C-01W	nice size and shape, light set			1.0	
9	NDTX081648CB-13W	rough, poor shape, drop??			1.0	
10	NDTX091908AB-02W	yield+, high set, smooth, BOT			1.0	BOT-
11	OR09256-2	light set, buff, uniform			1.0	
12	OR09253-1	light set, small			2.0	
13	TX09396-1W	nice size and yield			1.0	1HH, 2DK

¹TNC=thumb nail cracks.²CRS=Corky ring spot³HB=Hard bite.⁴Fresh Chip (at harvest) Color rating: 1=light, 3+=very dark⁵BOT=Best Of Trial, ZC=zebra chip, HH=hollow heart, DK=dark-high sugars, GH=greenheads

*Dalhart, Texas reported higher than normal precipitation during the growing season.

**Springlake, Texas reported above average precipitation May and June; they were subjected to above average temperatures in July and the first week of August. They were also subjected to a psyllid infestation in late June through July.