

2001
WESTERN REGIONAL CHIPPING
POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California
Colorado
Idaho

Oregon
Texas
Washington

2001 WESTERN REGIONAL CHIPPING POTATO VARIETY TRIAL REPORT

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Compiled by Peggy Bain

TABLE 1: 2001 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
Kern Co. California (CA)	R. Voss, H. Phillips J. Nunez	Early	Sprink.		12-Feb		12-Jun	--	120		None	Bravo
San Luis Valley Colorado (CO)	D. Holm F. Popiel	Late	Pivot	117-60-40-87	16-May	31-Aug	25-Sep	107	132	Sencor Eptam	Leverage	Bravo Super Tin Quadris Agri Tin
Aberdeen Idaho (ID)	S. Love, R. Novy, D. Corsini T. Salaiz P. Bain	Late	Sprink.	120-120-40	2-May	6-Sep	21-Sep	127	142	Sencor Matrix Eptam	Admire	Dithane
Corvallis Oregon (CV)	A Mosley S. Yilma	Late	Sprink.		19-May	10-Sep	21-Sep	114	125	Matrix Prowl	Thimet Provado	Bravo Curzate Quadris Dithane
Hermiston Oregon (HRE)	D. Hane, L. Leroux	Early	Pivot		16-Mar		5-Jul	--	111		Admire	
Hermiston Oregon (HRL)	D. Hane, L. Leroux	Late	Pivot		5-Apr	21-Aug	10-Sep	138	158		Admire	
Klamath Falls Oregon (KF)	K. Rykbost, B. Charlton	Late			Not planted due to lack of water							
Dalhart Texas (TX)	J. C. Miller, Jr. J. Koym D. Schuering	Early	Pivot	331-200-100	2-May	4-Sep	11-Sep	125	132	Prowl	Genisis Admire Leverage Baythoid Thiodan	Tops MZ Quadras, Echo Super Tin Curzate Ultra Flourish
Othello Washington (WA)	R. Thornton R. Knowles G. Newberry E. Driskill	Late	Sprink.	251-389-241	16-Apr	24-Aug	10-Sep	130	147	Eptam Matrix	Success Fulfil	Bravo Dithane
					Herbicide damage					Prowl	Comite	Quadras

TABLE 2: 2001 Western Regional Chipping Potato Variety Trial - CLONE, PARENTS, ENTERED BY, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS, METRIBUZIN REACTION

No	Clone	Parents	Flower Color	Entered by	Year in Trial	Seed Source	Mean Stand %	Tuber		Vine		Metr. Reaction AB ¹
								Shape	Skin	Size	Maturity	
1	ATLANTIC	WAUSEON B5141-6	V Lt Red-purple	Check	Ck	OR	97	Round	White	Medium	Med-early	MS
2	CHIPETA	WNC612-13 WISCHIP	Med Red-purple	Check	Ck	OR	93	Oval	Buff	Large	Late	R
3	A90490-1	NDA2126-6 CHIPETA	White	ID	2	OR	95	Oval	White	Large	Med-late	R
4	A91790-13	CHIPETA Ivory Crisp	V Lt Red-purple	ID	2	OR	98	Round	White	Medium	Medium	R
5	NDTX4930-5W	ND860-2 A7961-1	V Lt Red-purple	TX	2	OR	97	Oval	White	Med-small	Medium	R
NE	B0766-3	Atlantic Q155-3	White	MD	1	ME	93	Oval	Buff	Medium	Med-late	-
NE	NY112	Atlantic Q155-3	White	NY	1	NY	94	Oval	White	Med-small	Med-late	-

¹ Metribuzin Reaction measured at Aberdeen, ID

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

NE National Trial Entries

TABLE 3: 2001 Western Regional Chipping Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY AND LATE HARVEST

No.	Clone	Total Yield - Early Harvest (CWT/A)				Total Yield - Late Harvest (CWT/A)					Entry Mean	Rank	
		CA	HRE	TX	Entry Mean	Rank	CO	CV	ID	HRL			WA
1	ATLANTIC	314	522	394	410	2	475	421	443	697	554	529	7
2	CHIPETA	338	369	291	333	5	551	576	532	884	672	666	4
3	A90490-1	274	346	209	276	7	560	732	535	872	763	726	2
4	A91790-13	312	413	251	325	6	515	628	533	864	705	683	3
5	NDTX4930-5W	354	458	411	408	3	432	581	429	621	795	607	5
6	B0766-3	401	457	409	422	1	-	-	316	680	599	532	6
7	NY112	294	-	384	339	4	506	-	544	934	786	755	1
Location Means		327	428	335	359		507	588	476	793	696	612	
LSD (.05)					80							85	

TABLE 4: 2001 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
		CA	HRE	TX	Entry Mean	Rank	CO	CV	ID	HRL	WA		
1	ATLANTIC	288	445	331	355	2	382	354	401	620	399	444	7
		92	85	84	87	3	80	84	91	89	72	84	4
2	CHIPETA	316	265	245	275	5	466	407	408	756	447	505	4
		93	72	84	83	5	85	72	77	86	66	75	7
3	A90490-1	248	241	153	214	7	452	596	417	764	581	590	2
		90	70	74	78	7	80	81	78	88	76	81	5
4	A91790-13	285	321	182	263	6	308	526	456	777	542	575	3
		91	78	73	81	6	59	84	86	90	77	84	3
5	NDTX4930-5W	320	400	333	351	3	355	448	351	562	562	481	5
		91	87	81	86	4	82	77	82	91	71	80	6
6	B0766-3	387	399	363	383	1	-	-	287	634	471	464	6
		97	87	89	91	2	-	-	91	93	79	88	1
7	NY112	270	-	346	308	4	428	-	486	855	622	654	1
		92	-	90	91	1	84	-	89	92	79	87	2
Location Means		302	345	279	307		399	466	401	710	518	499	
LSD (.05)		92	80	82	85		78	80	85	90	74	81	
					87							83	

TABLE 5: 2001 Western Regional Chipping Potato Variety Trial - YIELD > 10/12 OZ (CWT/A & %) - EARLY AND 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
		CA	HRE	TX	Entry Mean	Rank	CO	CV	ID	HRL	WA		
1	ATLANTIC	5	135	69	70	3	100	169	108	330	127	184	6
		2	26	17	15	3	21	40	24	47	23	34	5
2	CHIPETA	3	35	68	35	5	160	264	197	596	278	334	2
		1	9	24	11	4	29	43	37	67	41	47	2
3	A90490-1	3	7	19	10	7	142	368	163	539	292	341	1
		1	2	9	4	7	25	50	30	62	38	45	3
4	A91790-13	0	54	12	22	6	57	157	102	270	119	162	7
		0	13	5	6	6	11	25	19	31	17	23	7
5	NDTX4930-5W	0	159	74	78	1	82	242	200	380	352	294	3
		0	35	18	18	1	19	42	47	61	44	49	1
6	B0766-3	6	101	106	71	2	-	-	68	388	211	222	4
		1	22	24	16	2	-	-	22	57	35	38	4
7	NY112	0	-	79	40	4	124	-	120	369	170	220	5
		0	-	20	10	5	25	-	22	40	22	28	6
Location Means		2	82	61	48		111	240	137	410	221	224	
LSD (.05)		1	18	17	12		22	40	29	52	31	35	
					NS							67	

TABLE 6: 2001 Western Regional Chipping Potato Variety Trial - YIELD < 4 OZ (CWT/A & %) - EARLY AND LATE HARVEST

No.	Clone	Yield < 4 OZ - Early Harvest (CWT/A) / %					Yield < 4 OZ - Late Harvest (CWT/A) / %					Entry Mean	Rank
		CA	HRE	TX	Entry Mean	Rank	CO	CV	ID	HRL	WA		
1	ATLANTIC	25	70	63	53	4	57	35	22	66	66	47	5
		8	13	16	12	4	12	8	5	9	12	9	6
2	CHIPETA	22	94	46	54	5	44	22	27	31	40	30	1
		7	25	16	16	5	8	4	5	4	6	5	1
3	A90490-1	26	97	55	59	6	77	27	40	52	51	43	4
		10	28	26	21	7	14	4	7	6	7	6	3
4	A91790-13	27	89	69	62	7	199	60	56	79	104	75	7
		9	22	27	19	6	39	10	11	9	15	11	7
5	NDTX4930-5W	13	52	73	46	3	68	39	20	32	37	32	2
		4	11	18	11	3	16	7	5	5	5	6	2
6	B0766-3	14	56	44	38	2	-	-	25	36	42	34	3
		3	12	11	9	2	-	-	8	5	7	7	4
7	NY112	17	-	38	28	1	71	-	34	70	81	62	6
		6	-	10	8	1	14	-	6	7	10	8	5
Location Means		21	76	55	51		86	37	32	52	60	53	
LSD (.05)		7	19	18	14		17	7	7	6	9	9	
LSD (.05)					NS							30	

TABLE 7: 2001 Western Regional Chipping Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No. Clone	Specific Gravity - Early Harvest					Specific Gravity - Late Harvest						
	CA	HRE	TX	Entry Means	Rank	CO	CV	ID	HRL	WA	Entry Mean	Rank
1 ATLANTIC	1.087	1.071	1.074	1.077	1	1.101	1.081	1.097	1.083	1.082	1.089	1
2 CHIPETA	1.076	1.065	1.063	1.068	4	1.097	1.078	1.086	1.079	1.071	1.082	4
3 A90490-1	1.066	1.059	1.059	1.061	7	1.087	1.076	1.082	1.073	1.069	1.077	7
4 A91790-13	1.078	1.062	1.065	1.068	3	1.093	1.081	1.091	1.083	1.083	1.086	2
5 NDTX4930-5W	1.072	1.066	1.064	1.067	5	1.092	1.085	1.083	1.072	1.075	1.081	5
6 B0766-3	1.077	1.069	1.064	1.070	2	-	-	1.084	1.072	1.077	1.078	6
7 NY112	1.066	-	1.063	1.065	6	1.097	-	1.087	1.080	1.079	1.086	3
Location Means	1.075	1.065	1.065	1.068		1.095	1.080	1.087	1.077	1.076	1.080	
LSD (.05)				0.005							0.005	

TABLE 8: 2001 Western Regional Chipping Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

No. Clone	Average Tuber Size (oz)								Tuber Shape (1-5, 1 = round, 5 = long)					
	HRE E	TX E	Early Entry Means	CV L	ID L	HRL L	WA L	Late Entry Means	CA E	TX E	CO L	ID L	WA L	Entry Means
1 ATLANTIC	5.5	4.5	5.0	5.9	7.6	7.9	6.9	7.1	2.3	1.0	2.0	1.0	1.2	1.5
2 CHIPETA	4.5	4.8	4.7	7.6	11.0	11.5	9.7	9.9	2.0	2.0	2.0	2.5	1.3	2.0
3 A90490-1	3.9	3.8	3.9	8.4	7.5	9.3	8.9	8.5	2.0	1.0	1.0	1.3	1.2	1.3
4 A91790-13	4.6	3.8	4.2	6.6	6.3	6.7	6.1	6.4	1.3	1.0	1.0	1.8	1.3	1.3
5 NDTX4930-5W	6.3	4.4	5.4	6.8	9.2	9.3	10.7	9.0	2.0	2.0	2.0	3.0	3.0	2.4
6 B0766-3	5.8	5.2	5.5	-	7.1	9.2	8.2	8.2	1.7	1.0	-	1.3	1.0	1.3
7 NY112	-	5.5	5.5	-	7.3	7.9	7.0	7.4	3.0	1.0	2.0	1.8	1.2	1.8
Location Means	5.1	4.6	4.9	7.1	8.0	8.8	8.2	8.1	2.0	1.3	1.7	1.8	1.4	1.6
LSD (.05)			NS					1.4						

TABLE 9: 2001 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	4.3	5.0	4.9	4.9	4.7	3.8	5.0	4.1
2 CHIPETA	4.7	3.4	5.0	4.0	4.4	4.7	3.1	5.0	4.3
3 A90490-1	4.9	3.8	5.0	4.8	3.5	3.4	2.4	5.0	4.5
4 A91790-13	4.8	4.8	5.0	4.9	4.8	4.8	3.9	5.0	4.0
5 NDTX4930-5W	4.8	4.7	5.0	5.0	4.5	5.0	2.9	5.0	3.9
6 B0766-3	5.0	4.6	5.0	5.0	4.5	3.0	3.0	5.0	4.4
7 NY112	5.0	4.7	5.0	4.9	5.0	3.8	4.0	5.0	4.3

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: 2001 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		
		Early	Late	Early	Late	Early	Late	Early	Late	AB ²
1	ATLANTIC	14.3	23.3	0.0	4.0	0.0	0.0	5.0	3.8	3.5
2	CHIPETA	0.0	13.4	0.0	2.0	0.0	0.5	5.0	4.5	3.2
3	A90490-1	7.7	18.7	0.0	2.0	0.0	0.0	5.0	4.5	3.8
4	A91790-13	1.1	6.4	0.0	1.7	2.7	1.0	5.0	4.0	3.4
5	NDTX4930-5W	8.0	24.4	0.0	1.0	0.0	2.0	5.0	4.6	2.8
6	B0766-3	11.7	15.2	4.5	0.0	0.0	0.0	5.0	3.9	2.6
7	NY112	8.5	10.2	0.0	3.0	0.0	0.0	5.0	3.9	3.1
LSD (.05)		NS	NS							

¹ Score 1-5, with 1=severe, 5=none.

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

TABLE 11: 2001 Western Regional Chipping Potato Variety Trial - CHIP COLOR, AND PERCENT SUGAR ENDS

Clone	Early Harvest			Late Harvest										% Sugar Ends	
	CA	TX	HRE ¹	CO ¹				ID ¹			CV ¹		HRL ¹	ID	Means
	Hunter Color			Chip 40		Chip 50		Chip 40		Chip 50	40	50		L	
	L ²	L ²		a	Recon ^b	c	Recon ^d	a	Recon ^b	c					
1 ATLANTIC	64.0	67.6	1.1	4.0	3.0	1.0	2.0	3.1	2.6	1.3	4.3	2.8	2.1	19	19
2 CHIPETA		67.7	1.3	5.0	3.0	1.5	2.0	3.9	3.4	1.6	4.4	3.0	2.0	26	26
3 A90490-1	64.0	62.9	2.9	5.0	3.5	2.0	2.5	4.0	3.9	1.7	4.3	3.1	2.3	6	6
4 A91790-13	64.0	66.5	2.8	3.5	1.5	1.0	1.5	1.0	1.3	1.0	3.3	2.6	1.0	0	0
5 NDTX4930-5W	68.0	61.3	2.3	2.5	2.5	1.0	1.5	2.3	1.8	1.1	3.7	2.6	1.7	3	3
6 B0766-3	67.0	69.1	1.0	-	-	-	-	2.4	2.5	1.0	-	-	2.2	6	6
7 NY112	65.0	66.3	-	3.0	2.0	1.0	2.0	2.5	1.7	1.1	-	-	1.7	8	8
Location Means	65.3	65.9	1.9	3.8	2.6	1.3	1.9	2.7	2.5	1.3	4.0	2.8	1.9	10	

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

² L=light to dark. Samples lower than 62 'L' are unacceptable.

^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.

TABLE 12: 2001 Western Regional Chipping Potato Variety Trial - DISEASE EVALUATIONS

No. Clone	Vert. Wilt/ Early Dying		Early Blight	Late Blight		Corky	Root-	Common	Leafroll		Erwinia
	AB	HERM	AB	Foliar	Tuber	Ringspot	knot	Scab	Net	Necrosis	Soft Rot
	0-9 ¹	0-9 ¹	0-9 ¹	CORVALLIS	% by Wt.	PROSSOR		AB	AB	HERM	AB
								(%) ³	(%) ³	(%) ³	0-5 ²
1 ATLANTIC	5.5	7.5	6.5	8.5	17.5	S	S	1.3	0.0	5.0	2.9
2 CHIPETA	2.3	3.2	6.5	6.8	57.5	S	S	9.0	13.0	52.5	3.2
3 A90490-1	2.8	3.5	7.8	7.5	27.5	S	S	3.0	1.0	42.5	4.5
4 A91790-13	3.0	1.2	7.5	8.5	95.0	S	S	6.7	6.0	30.0	4.4
5 NDTX4930-5W	7.0	5.2	8.0	8.8	60.0	S	S	8.7	2.0	67.5	-
6 B0766-3	-	7.5	-	-	-			-	14.0	36.7	-
7 NY112	-	4.0	-	-	-			-	-	15.0	-
MEANS	4.1	4.6	7.3	8.0	51.5			5.7	6.0	35.6	3.8
LSD @ .05	2.5		1.3					8.0			1.7

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 than 10% of tuber involved.

S = Susceptible

TABLE 13: 2001 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)			
ATLANTIC	25.3	0.01	0.17	6.4	21.0	9.1
CHIPETA	23.0	0.03	0.25	6.7	27.4	9.0
A90490-1	22.2	0.06	0.30	7.0	20.0	2.7
A91790-13	23.4	0.00	0.12	7.1	17.6	8.5
NDTX4930-5W	22.1	0.01	0.19	7.2	15.6	8.7
B0766-3	23.8	0.00	0.15	5.3	18.7	10.2
NY112	22.9	0.02	0.10	5.7	23.3	17.5
Means	23.2	0.02	0.18	6.5	20.5	9.4

DWB = dry weight basis

FWB = fresh weight basis

TABLE 14: 2001 Western Regional Chipping Potato Variety Trial - MERIT SCORES (1-5(best))

No.	Clone	Early Process Merit			Late Process Merit			Means
		HRE	TX	Means	CO	ID	HRL	
1	ATLANTIC	2.0	3.1	2.6	3.0	3.5	3.0	3.2
2	CHIPETA	2.0	3.1	2.6	5.0	3.0	2.0	3.3
3	A90490-1	1.0	2.9	2.0	4.0	2.0	1.0	2.3
4	A91790-13	1.0	3.0	2.0	3.0	5.0	4.0	4.0
5	NDTX4930-5W	1.0	3.5	2.3	2.0	4.0	1.0	2.3
6	B0766-3	3.0	3.2	3.1		3.0	1.0	2.0
7	NY112		3.4	3.4	5.0	4.0	5.0	4.7
Location Means		1.7	3.2	2.5	3.7	3.5	2.4	3.1

TABLE 15: 2001 Western Regional Chipping Potato Variety Trial - SUMMARY

No.	Clone	Year in Trial	Yield		% US#1's		Tuber Size		Specific Gravity		Chip Color	Merit Score		Problems
1	ATLANTIC	CK	529	medium	444 84	high	7.1	medium	89	med-high	good	3.2	good	Hollow Heart
2	CHIPETA	Ck	666	med-high	505 75	medium	9.9	large	82	medium	good	3.3	good	
4	A90490-1	2	726	high	590 81	med-high	8.5	med-large	77	med-low	fair	2.3	fair	Hollow Heart
5	A91790-13	2	683	med-high	575 84	high	6.4	med-small	86	medium	excellent	4.0	excellent	susc. to tuber late blight
9	NDTX4930-5W	2	607	med-high	481 80	med-high	9.0	large	81	medium	good	2.3	fair	Hollow Heart
7	B0766-3	1	532	medium	464 88	high	8.2	med-large	78	med-low	good	2.0	poor	Blackspot
8	NY112	1	755	high	654 87	high	7.4	medium	86	medium	good	4.7	best	higher glycoalkaloids

TABLE 16: 2000-2001 Western Regional Chipping Potato Variety Trial - MULTIPLE YEAR SUMMARY

Trial Year	Clone	Yield		% US#1's			Tuber Size		Specific Gravity		Chip Color	Merit Score		Problems
		cwt/A	%	cwt/A	%	g/cc	g/cc	g/cc	g/cc					
2001	ATLANTIC	529	medium	444	84	high	7.1	medium	89	med-high	good	3.2	good	Hollow Heart
2001	CHIPETA	666	med-high	505	75	medium	9.9	large	82	medium	good	3.3	good	tuber late blight
2001	A90490-1	726	high	590	81	med-high	8.5	med-large	77	med-low	fair	2.3	fair	Hollow Heart
2001	A91790-13	683	med-high	575	84	high	6.4	med-small	86	medium	excellent	4.0	excellent	
2001	NDTX4930-5W	607	med-high	481	80	med-high	8.2	med-large	81	medium	good	2.3	fair	Hollow Heart
2000	ATLANTIC	458	medium	381	82	high	6.4	medium	87	med-high	good	2.5	fair	Hollow Heart
2000	CHIPETA	661	very high	533	78	med-high	9.5	large	80	medium	good	3.3	good	
2000	A90490-1	616	very high	521	83	high	7.3	med-large	79	med-low	good	2.9	fair	
2000	A91790-13	629	very high	464	72	medium	4.7	small	87	med-high	excellent	4.2	top	Net Necrosis
2000	NDTX4930-5W	570	high	474	82	high	7.0	med-large	81	medium	good	2.9	fair	Net Nec Scab
2000-2001 Two year averages.														
	Clone	Total Yield	US#1's			Tuber Size	Specific Gravity		Merit Score					
			cwt/A	%										
Means	ATLANTIC	494	413	83	6.8	88		2.8						
Means	CHIPETA	664	519	77	9.7	81		3.3						
Means	A90490-1	671	556	82	7.9	78		2.6						
Means	A91790-13	656	520	78	5.5	87		4.1						
Means	NDTX4930-5W	588	478	81	7.6	81		2.6						