

**Table 1a. Copper's Farm Variety Trial.** Total and marketable yield, percentage of total yield by size class, specific gravity, and chip scores of potato clones harvested 110 DAP<sup>1</sup> at Copper's Farm, Gum Neck, Tyrrell Co., NC - 2001.

Clone	Size Distribution by Class <sup>2</sup>								
	Total Yield	Marketable Yield		(% of total yield)			Specific Gravity <sup>3</sup>	Chip Color <sup>4</sup>	
	cwt/A	cwt/A	% Atl.	1's + 2's	3's	Culls		TRS	Wise
AF1424-7	238	218	67	92	3	5	1.068	3	2
AF1569-2	392	362	109	92	4	4	1.056	3	3
AF1856-1	291	270	81	93	1	6	1.063	3	3
AF875-15	341	277	83	82	4	14	1.069	2	2
Atlantic	367	333	100	91	4	5	1.068	1.5	2
B0178-34	361	311	94	86	4	10	1.071	2.5	2
B0766-3	363	338	102	93	4	3	1.067	2	2
B1240-1	296	268	81	91	3	6	1.060	2	3
B1870-17	423	356	108	84	5	11	1.052	2	3
B1873-6	300	270	81	90	7	3	1.068	2.5	2
Coastal Chip	415	356	108	86	4	10	1.061	2.5	2
NY120	333	302	91	91	2	7	1.064	2	2
SC8801-2	329	291	88	89	1	11	1.049	4	4
Snowden	383	356	107	93	3	4	1.066	2	2
Suncrisp	335	263	79	79	5	16	1.066	2	2
Superior	340	306	92	90	3	7	1.064	2.5	4
Grand Mean	344	305							
CV (%)	13	14							
LSD (K=100)	63	63							

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's + 2's > 1 1/2"; 3's ≤ 1 1/2" ; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

<sup>4</sup> Chip Color Ratings conducted by Wise Foods Inc. and the NCSU potato breeding Program at the TRS/VGJREC:

1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

**Table 1b. Cooper's Farm Variety Trial.** Plant vine type, disease and air pollution scores. Maturity at ca. 3 weeks prior to harvest, external and internal tuber attributes, of potato clones harvested 110 DAP<sup>1</sup> at Cooper's Farm, Gum Neck, Tyrrell Co., NC-2001

Clone	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>4</sup> (no./40 tubers)						Comments <sup>3</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	SR	
AF1424-7	5	9	9	5	6	7	5	4	3	7	7	7	3	0	-	0	1	0	0	GC, MS, DSA, RZ, SCB
AF1569-2	6	9	9	6	6	5	7	7	2	8	7	7	7	0	-	0	0	0	0	SCB
AF1856-1	7	9	8	6	6	6	4	7	3	6	7	8	4	1	2	7	1	13	0	DSA, DAE, MS, GC
AF875-15	6	8	8	5	6	6	5	7	3	6	7	8	3	0	-	0	0	0	0	MS, DAE, GC
Atlantic	6	8	8	6	6	5	5	7	2	7	6	8	7	3	4	0	0	2	0	MS, GC, SS
B0178-34	8	9	9	7	6	7	4	6	3	8	6	7	5	0	-	0	2	12	0	SG, SCB, MS, GC
B0766-3	6	8	8	5	6	5	7	8	2	8	6	7	8	0	-	0	1	0	0	SR, MS, DAE, SCB
B1240-1	9	9	7	8	6	5	5	5	4	8	8	8	4	0	-	0	0	0	0	MS, GC
B1870-17	8	9	8	7	6	5	7	6	3	8	7	8	7	0	-	0	0	0	0	SG, MS, SS, GC
B1873-6	5	8	8	5	6	5	7	7	1	8	4	8	7	0	-	0	1	0	0	SG, SCB, MS, DAE, SR
Coastal Chip	6	8	8	5	6	6	7	7	2	5	6	7	3	4	8	0	0	4	0	MS, SCB, DSA, DAE
NY120	6	8	8	6	6	5	4	7	3	7	5	7	5	0	-	0	1	0	0	PTS, MS, SS
SC8801-2	9	9	8	8	6	7	5	3	5	5	8	7	4	0	-	1	1	0	0	MS, SS, SR
Snowden	9	9	7	8	6	5	7	7	2	5	4	8	5	0	-	0	0	0	0	DAE, MS, SS
Suncrisp	9	8	9	8	6	6	5	7	2	7	5	8	4	0	-	1	0	0	0	MS, SG
Superior	6	8	8	4	6	6	5	7	4	6	6	8	6	0	-	0	1	1	0	MS

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart;  
VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes

**Table 2a. James Brother's Farm Variety Trial.** Total and marketable yield, percentage of total yield by size class, and specific gravity of potato clones harvested 113 DAP<sup>1</sup> (104 DVK<sup>1</sup>) at James Brother's Farm, Weeksville, Pasquotank Co., NC - 2001.

Clone	Size Distribution by Class <sup>2</sup>								
	Total Yield	Marketable Yield		(% of total yield)			Specific Gravity <sup>3</sup>	Chip Color <sup>4</sup>	
	cwt/A	cwt/A	% Atl.	1's + 2's	3's	Culls		TRS	Wise
AF1437-1	230	209	92	91	3	6	1.047	3	4
AF1470-6	212	183	81	86	3	11	1.044	4	5
AF1565-12	189	169	75	89	5	6	1.056	2	2
AF1668-60	88	78	35	88	3	8	1.057	-	-
Atlantic	246	226	100	92	4	4	1.068	3	3
B0564-8	251	223	99	89	7	4	1.066	3	3
B0564-9	276	237	108	87	3	10	1.060	3	3
B1591-1	248	224	99	91	7	3	1.068	2	4
B1752-5	209	185	82	89	8	3	1.057	-	-
Bydand	232	201	89	87	7	6	1.052	3	-
Cherry Red	172	149	67	86	6	7	1.060	-	-
Nordonna	228	176	78	78	8	14	1.047	-	-
NY120	188	167	74	88	2	10	1.057	3	3
NY121	213	174	75	81	12	7	1.069	1.5	2
Pike	195	165	73	85	9	5	1.062	2	2
Platina	184	148	65	81	3	16	1.038	-	-
Reba	195	178	79	91	5	4	1.055	3	4
Snowden	248	229	101	92	4	4	1.062	2	2
Superior	232	210	93	91	3	7	1.061	4	4
Vivaldi	287	254	112	89	7	4	1.051	-	-
Grand Mean	216	189							
CV (%)	12	12							
LSD (K=100)	33	30							

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's + 2's > 1 1/2"; 3's ≤ 1 1/2" ; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

<sup>4</sup> Chip Color Ratings conducted by Wise Foods Inc. and the NCSU potato breeding Program at the TRS/VGJREC:

1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

**Table 2b. James Brother's Farm Variety Trial.** Plant vine type, disease and air pollution scores. Maturity at ca. 3 weeks prior to harvest, external and internal tuber attributes, of potato clones harvested 113 DAP<sup>1</sup> (104 DVK<sup>1</sup>) at James Bros. Farm, Weeksville, Pasquotank Co., NC-2001

Clone	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./40 tubers)						Comments <sup>4</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	SR	
AF1437-1	7	9	9	6	6	6	7	6	3	6	6	8	5	0	-	0	0	0	0	MS, GC, DAE, HS
AF1470-6	5	9	9	6	6	7	5	6	3	7	7	8	5	2	8	0	3	1	1	EL, GC, MS
AF1565-12	5	9	8	3	6	6	5	7	4	7	7	8	6	0	-	0	3	0	0	MS, RZ, SS, GC
AF1668-60	4	9	9	6	7	6	5	7	3	7	7	8	5	0	-	0	17	0	0	SS, RZ, SG
Atlantic	8	9	9	7	6	5	7	7	2	7	6	8	5	0	-	6	0	1	0	SS, RZ, MS, DAE
B0564-8	7	9	8	6	6	6	7	9	2	7	5	8	6	0	-	0	2	0	0	RZ, SS, MS
B0564-9	8	9	8	7	6	6	7	6	2	7	8	6	6	0	-	0	0	0	0	RZ, SS, MS
B1591-1	6	9	8	6	7	5	5	6	3	6	5	8	6	0	-	0	0	0	0	
B1752-5	9	9	9	6	6	8	7	7	2	6	5	8	7	0	-	0	0	0	0	DAE, PTS, YF2
Bydand	7	9	9	9	9	7	4	7	5	3	3	8	5	0	-	0	1	1	0	MS, RZ, SS, GC
Cherry Red	9	9	9	7	2	7	5	7	5	5	5	7	6	0	-	0	3	0	0	MS, RZ, GC
Nordonna	9	9	9	7	2	8	7	6	2	5	5	7	6	0	-	0	4	0	0	RZ, HS
NY120	7	9	9	7	6	6	4	6	4	6	7	7	4	0	-	0	7	0	0	RZ, MS
NY121	5	9	8	6	6	7	7	7	2	6	3	7	4	0	-	0	1	0	0	MS, DAE, HS, DSA
Pike	7	9	8	7	6	7	7	7	2	6	3	7	5	0	-	0	0	0	0	RZ, DAE, DSA
Platina	7	9	9	8	9	8	5	7	3	6	7	7	5	0	-	0	1	0	0	RZ, MS, SS, EL, YF1
Reba	8	9	9	7	6	7	5	5	3	6	7	7	5	0	-	0	0	0	0	MS, SS, DAE, RZ
Snowden	9	9	9	8	7	5	7	7	2	5	5	7	7	0	-	0	0	0	0	DAE, MS, RZ
Superior	6	9	9	6	6	6	5	7	4	5	7	7	5	0	-	1	0	0	0	GC
Vivaldi	9	9	9	8	9	8	7	7	5	8	5	8	9	0	-	0	2	0	0	MS, RZ, SS, YF1

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart; VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes

**Table 3a. McCotter's Farm Variety Trial.** Total and marketable yield, percentage of total yield by size class, specific gravity, and chip scores of potato clones harvested 104 DAP<sup>1</sup> at McCotter's Farm, Vandemere, Pamlico Co., NC - 2001.

Clone	Size Distribution by Class <sup>2</sup>						Specific Gravity <sup>3</sup>	Chip Color <sup>4</sup>	
	Total Yield	Marketable Yield		(% of total yield)				TRS	Wise
	cwt/A	cwt/A	% Atl.	1's + 2's	3's	Culls			
AF1437-1	218	186	71	85	2	13	1.049	3	4
AF1470-6	247	215	81	87	4	9	1.050	4	4
AF1565-12	210	184	70	87	4	8	1.062	2	-
AF1856-1	241	218	83	90	2	8	1.067	2.5	-
Atlantic	287	266	100	93	5	2	1.078	2.5	2
B1497-22	286	254	96	89	7	4	1.063	-	-
Cherry Red	230	206	78	90	6	5	1.070	-	-
Eva	210	184	69	88	6	6	1.059	2	-
MSE149-5Y	300	258	97	85	3	11	1.060	-	-
MSF373-8	246	217	82	88	3	9	1.065	2	2
Nordonna	254	213	80	84	11	5	1.059	-	-
NY120	225	203	77	90	3	7	1.068	2.5	2
Pike	233	208	79	89	7	4	1.068	2.5	2
Reba	279	259	98	93	3	5	1.064	2.5	2
Snowden	263	217	82	82	6	11	1.068	2	2
Superior	283	257	97	90	4	6	1.069	3	3
Grand Mean	251	222							
CV (%)	12	15							
LSD (K=100)	45	56							

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's + 2's > 1 1/2"; 3's ≤ 1 1/2" ; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

<sup>4</sup> Chip Color Ratings conducted by Wise Foods Inc. and the NCSU potato breeding Program at the TRS/VGJREC:

1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

**Table 3b. McCotter's Farm Variety Trial.** Plant vine type, disease and air pollution scores. Maturity at ca. 3 weeks prior to harvest, external and internal tuber attributes of potato clones harvested 104 DAP<sup>1</sup> at McCotter's Farm, Vandemere, Pamlico Co., NC-2001

Clone	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./40 tubers)						Comments <sup>4</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	SR	
AF1437-1	6	8	8	6	6	5	7	7	2	7	7	5	6	0	-	0	0	0	0	GC, SR
AF1470-6	5	8	7	4	6	7	5	6	2	7	7	7	6	1	8	0	0	1	0	^GC
AF1565-12	5	8	7	4	6	6	5	7	3	8	5	7	6	0	-	1	0	0	3	GC, SR
AF1856-1	6	8	8	6	6	6	5	6	3	6	8	5	4	3	8	5	0	3	2	MS, SR, GC, DSA
Atlantic	6	8	8	6	7	5	5	6	2	7	6	7	7	0	-	0	0	1	0	SR, GC, MS
B1497-22	7	7	8	7	6	6	7	6	4	8	6	6	5	0	-	0	1	0	0	RZ, SR, MS, YF2
Cherry Red	8	8	8	7	2	5	5	7	4	8	5	7	5	0	-	0	1	0	0	SR, GC, MS
Eva	6	8	7	5	6	6	7	6	3	6	5	8	5	0	-	0	0	0	5	SR, MS
MSE149-5Y	6	8	8	6	6	8	5	7	3	8	6	6	4	1	8	0	0	0	3	^MS, SR, RZ, YF1
MSF373-8	8	8	8	8	6	6	7	6	2	6	7	5	4	0	-	2	0	0	0	GC, SR, DAE
Nordonna	6	8	8	5	2	7	7	7	2	6	5	7	6	0	-	0	2	0	0	SG, SR
NY120	7	8	8	7	6	6	5	6	3	7	6	6	5	0	-	0	2	0	0	RZ, MS, SR
Pike	6	8	8	6	6	6	5	6	2	7	5	8	7	0	-	1	0	5	0	MS, SR
Reba	7	8	7	6	6	7	4	7	3	7	6	7	6	0	-	0	0	0	0	DAE, SR
Snowden	8	8	8	7	7	5	7	7	2	6	4	7	6	0	-	0	0	0	0	MS, RZ, DAE, DSA
Superior	6	8	8	5	6	6	5	7	3	6	6	6	6	0	-	0	0	0	0	MS, SR

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart; VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes

Table 4a. Tull Hill Farms Red Variety Trial. Total and Marketable yield, percentage of total yield by size class, and specific gravity of potato clones harvested 106 DAP<sup>1</sup> (102 DVK<sup>1</sup>) at Tull Hill Farms, Kinston, Lenoir Co., NC - 2001

Clone	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>2</sup> (% of total yield)			Specific <sup>3</sup> Gravity
		cwt/A	% DK Rd Nor.	1's + 2's	3's	Culls	
B0984-1	222	181	90	81	7	13	1.063
B1523-4	282	235	116	84	9	8	1.054
B1758-3	374	288	142	77	7	16	1.058
B1758-4	335	249	123	74	9	17	1.057
Cherry Red	244	201	99	82	5	12	1.063
Dk Rd Norland	246	204	100	83	5	12	1.059
Michigan Purple	351	280	138	79	4	16	1.065
ND3196-1R	283	230	113	81	4	14	1.061
Dakota Rose (ND3574-5R)	294	236	116	81	6	14	1.054
Nordonna	244	202	100	83	10	7	1.057
Superior	293	255	126	88	3	9	1.066
Ware's Pride	309	230	112	75	5	20	1.056
Grand Mean	290	233					
CV (%)	11	15					
LSD (K=100)	44	57					

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's + 2's > 1 1/2"; 3's ≤ 1 1/2" ; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

**Table 4b. Tull Hill Farms Red Variety Trial.** Plant vine type, disease and air pollution scores. Maturity at ca. 3weeks prior to harvest, external and internal tuber attributes of potato clones harvested 106 DAP<sup>1</sup> (102 DVK<sup>1</sup>) at Tull Hill Farms, Kinston, Lenior Co., NC-2001

Clone	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./40 tubers)						Comments <sup>4</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	SR	
B0984-1	9	7	9	8	2	7	5	5	3	5	6	8	6	2	8	0	1	0	0	MS
B1523-4	9	9	9	7	3	6	5	4	2	7	7	8	4	0	-	0	4	0	0	EL
B1758-3	9	9	9	8	2	8	7	6	2	6	7	8	6	3	8	1	0	3	0	MS
B1758-4	9	9	9	8	2	7	5	6	2	7	6	7	7	1	8	0	0	2	0	RZ, MS
Cherry Red	9	9	9	8	2	6	7	7	4	6	7	7	6	0	-	1	1	0	2	RZ, GC, MS, EL
Dk Rd Norland	4	7	7	3	2	7	5	7	4	6	6	8	6	0	-	0	15	0	0	MS, GC
Michigan Purple	5	8	8	4	1	8	5	6	3	4	7	8	4	1	8	0	3	0	0	AC, MS, GC, EL, SR
ND3196-1R	8	8	7	5	2	8	7	6	2	5	6	7	6	0	-	0	1	0	0	DAE, PTS, SR, MS
Dakota Rose (ND3574-5R)	4	8	8	3	2	7	5	6	3	3	6	8	4	0	-	0	16	0	0	PTS, MS, GC
Nordonna	7	8	8	4	2	7	7	7	2	6	4	8	6	0	-	0	19	0	0	MS, GC, HS
Superior	6	9	9	5	6	6	5	8	3	6	6	7	7	0	-	0	4	0	0	MS, RZ, PTS
Ware's Pride	5	8	9	4	3	7	7	6	2	4	6	8	3	0	-	0	7	0	0	^GC, ^MS

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart; VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes



Table 5a. Round White Trial One. Total and marketable yield, percentage of total yield by size class, specific gravity, and chip scores of potato clones harvested 121 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>2</sup> (% of total yield)							1 7/8- 4"	2 1/2- 4"	Specific Gravity <sup>3</sup>	Chip Color <sup>4</sup>
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls					
AF1424-7	243	224	85	3	21	70	2	0	5	92	71	1.074	2	
AF1437-1	244	218	82	3	24	59	6	0	9	89	65	1.048	4	
AF1470-6	208	124	47	4	16	43	0	0	37	59	43	1.048	4	
AF1565-12	209	185	70	4	35	53	0	0	8	88	53	1.061	2	
AF1569-2	331	304	115	4	17	63	12	0	4	92	75	1.064	3	
Atlantic	294	264	100	3	21	62	8	0	6	90	69	1.071	4	
B1591-1	275	253	96	3	31	60	1	0	5	92	61	1.082	3.5	
B1598-4	215	202	77	3	22	70	2	0	3	94	72	1.064	2.5	
B1624-22	163	141	54	10	39	47	0	0	4	86	47	1.061	3.5	
B1709-6	238	226	86	3	24	72	0	0	2	95	72	1.063	2.5	
B1806-8	304	277	105	4	36	54	1	0	5	91	55	1.067	2.5	
CAPC10	337	305	115	4	34	57	0	0	5	90	57	1.066	2	
CAPC15	323	288	109	2	15	70	4	0	9	89	74	1.065	2	
CAPC20	276	245	93	6	42	47	0	0	5	89	47	1.072	2	
CAPC25	229	208	79	7	34	56	1	0	2	91	57	1.068	2.5	
Ceasar	261	230	88	6	56	32	0	0	5	88	32	1.060	2	
EVA	207	190	72	2	26	66	1	0	6	92	66	1.063	1.5	
Morning Gold	280	230	88	3	31	50	0	0	15	82	51	1.062	4	
MSE1952-8RUS	277	163	61	9	44	14	0	0	33	58	14	1.065	4	
MSG004-3	164	114	44	4	23	39	8	0	26	70	47	1.055	2.5	
MSH031-5	293	266	100	4	45	46	0	0	6	91	46	1.070	2	
MSH095-4	294	249	95	2	17	47	20	0	13	84	68	1.079	2	
NY124(S14-2)	239	212	80	5	35	54	0	0	6	89	54	1.069	2.5	
NY125(S28-2)	223	188	71	10	58	26	0	0	6	84	26	1.066	2.5	
SC8801-2	208	189	73	2	28	62	0	0	7	91	62	1.052	3	
Snowden	330	305	116	4	29	55	8	0	4	92	63	1.079	2.5	
Superior	197	179	68	5	34	55	2	0	5	91	56	1.064	4	
T28-1	199	179	69	4	25	63	3	0	5	91	65	1.057	2.5	
Grand Mean	252	220												
CV (%)	12	14												
LSD (K=100)	38	40												

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's < 1 7/8"; 2's 1 7/8" to 2 1/2"; 3's 2 1/2" to 3 1/4" ; 4's 3 1/4" to 4"; 5's ≥ 4"; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

<sup>4</sup> Chip Color Ratings conducted by Wise Foods Inc. and the NCSU potato breeding Program at the TRS/VGJREC:

1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

Table 5b. Round White Trial One. Plant vine type, disease and air pollution scores, tuber external and internal attributes of potato clones harvested 121 DAP<sup>1</sup> at the NCSU VGJREC/NCSU TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./40 tubers)					Comments <sup>4</sup>	
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC		SR
AF1424-7	6	9	9	6	6	7	5	6	5	8	7	7	4	0	.	1	1	0	0	MS, CS
AF1437-1	8	8	8	6	6	5	7	7	3	7	7	7	5	1	8	0	0	1	0	^GC, RZ, MS
AF1470-6	5	9	9	5	6	6	5	7	2	7	5	6	3	0	.	0	8	1	0	^GC, ^RZ, SR, SS
AF1565-12	6	8	8	4	8	7	5	7	5	8	5	7	5	0	.	4	0	0	0	^MS, GC, RZ, HS
AF1569-2	7	9	8	6	7	6	5	6	3	8	7	6	5	1	8	0	1	0	1	RZ, CS, GC, SS, MS
Atlantic	7	9	8	7	5	5	7	6	2	6	7	8	6	10	8	11	0	6	0	^MS, ^SS, RZ
B1591-1	6	8	8	5	5	5	5	6	3	7	6	7	7	2	8	0	0	0	0	RZ, GC, SS
B1598-4	7	8	9	6	6	5	6	7	2	5	6	8	6	0	.	0	0	1	0	MS, SS
B1624-22	5	8	8	5	6	5	3	7	2	7	5	8	6	0	.	0	1	1	1	CS, MS, SS
B1709-6	6	9	8	7	6	6	7	7	3	8	5	8	6	0	.	4	0	5	0	MS
B1806-8	7	9	9	6	6	6	5	5	4	8	6	6	5	0	.	0	0	0	0	^RZ, SS, MS, YF
CAPC10	9	9	9	7	6	6	5	6	5	8	6	7	6	0	.	0	0	3	0	RZ, MS
CAPC15	7	9	9	7	8	7	7	7	5	6	8	7	4	0	.	0	0	0	1	MS, RZ, GC
CAPC20	9	8	9	7	6	7	5	7	2	6	5	7	5	0	.	0	0	0	0	MS, SG, SS
CAPC25	6	8	8	5	6	6	7	7	2	7	5	8	7	0	.	0	0	0	0	SS, MS, GC, YF
Cesar	9	9	9	8	6	7	4	7	5	8	5	8	6	2	8	0	0	3	1	CS, SR, MS, SG
EVA	8	9	8	6	8	7	7	7	2	8	6	6	6	0	.	0	0	2	0	MS, SR, RZ, SS
Morning Gold	9	9	9	8	6	7	5	7	4	7	6	4	4	1	8	0	1	0	1	^GC, CS, RZ, SR, MS, YF, ^EL
MSE1952-8RUS	6	8	8	6	4	2	7	6	8	7	6	5	4	0	.	0	0	0	0	GC, ^MS, ^RZ
MSG004-3	5	8	8	4	6	6	5	5	3	8	7	6	6	0	.	0	1	1	0	^CS, SG, RZ, GC
MSH031-5	9	9	9	6	8	8	5	8	4	8	6	7	5	0	.	0	1	1	0	RZ, SR, SS, HS
MSH095-4	8	9	8	7	6	6	5	6	4	6	8	6	4	0	.	0	0	0	0	^CS, MS
NY124(S14-2)	7	8	8	6	6	6	7	8	2	5	5	8	5	0	.	0	0	0	0	RZ, GC
NY125(S28-2)	8	9	8	7	6	6	3	8	3	8	3	7	6	0	.	0	0	0	1	MS, RZ, SS
SC8801-2	9	8	8	6	8	7	5	6	5	7	6	8	5	1	8	2	1	4	0	MS, RZ
Snowden	9	9	8	7	6	5	6	6	3	5	7	8	6	1	8	0	0	1	0	MS, SS
Superior	7	8	9	5	6	6	5	7	4	5	6	8	6	0	.	0	0	0	3	GC, RZ, MS, SS, CS
T28-1	6	7	7	5	6	8	7	7	2	7	6	6	7	0	.	0	0	0	0	GC, RZ

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart; VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes

**Table 6a. Round White Trial Two.** Total and marketable yield, percentage of total yield by size class, specific gravity, and chip scores of potato clones harvested 121 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Total Yield		Marketable Yield		Size Distribution by Class <sup>2</sup>							Specific Gravity <sup>3</sup>	Chip Color <sup>4</sup>	
	cwt/A		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls	1 7/8- 4			2 1/2- 4
AF1763-2	208		192	80	3	35	56	1	0	5	92	57	1.048	4
AF1856-1	226		191	80	2	16	55	13	0	13	85	69	1.064	2.5
AF1938-3	225		193	81	2	19	60	7	0	12	86	67	1.062	3
Atlantic	270		240	100	5	28	56	4	0	6	89	61	1.071	2.5
B0178-34	272		245	102	4	26	64	0	0	6	90	64	1.075	1.5
B0766-3	133		112	47	8	47	38	0	0	8	84	38	1.060	3
B1339-2	201		169	70	12	48	35	1	0	4	84	36	1.072	3
B1870-1	222		207	87	4	24	67	2	0	3	93	69	1.055	3.5
B1884-9	268		239	100	2	16	57	16	0	9	90	74	1.066	2.5
NY112	256		243	102	2	32	60	3	0	3	95	63	1.071	2.5
NY121	231		182	76	20	61	17	0	0	2	78	17	1.069	3.5
Pike	237		211	88	7	39	50	0	0	3	89	51	1.072	3.5
Snowden	303		286	120	4	27	66	2	0	2	94	68	1.076	3
Superior	211		189	80	4	33	56	1	0	7	89	57	1.062	3.5
T2-2	266		251	105	3	21	54	19	0	3	95	73	1.064	2
Grand Mean	235		210											
CV (%)	13		13											
LSD (K=100)	41		38											

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's + 2's > 1 1/2"; 3's ≤ 1 1/2" ; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

<sup>4</sup> Chip Color Ratings conducted by Wise Foods Inc. and the NCSU potato breeding Program at the TRS/VGJREC:

1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

**Table 6b. Round White Trial Two.** Plant vine type, disease and air pollution scores, tuber external and internal attributes of potato clones harvested 121 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./40 tubers)					Comments <sup>4</sup>		
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC		SR	
AF1763-2	6	8	8	5	8	6	5	7	4	7	5	8	6	0	.	0	0	0	0	0	MS, SR, SG
AF1856-1	7	8	8	6	6	6	7	7	5	6	8	7	4	2	8	4	1	19	0	0	SS, MS, SR, GC, DAE, DSA
AF1938-3	6	8	9	5	6	6	5	4	5	7	7	6	4	0	.	0	0	5	0	0	ELs, ^GC, RZ, MS, SR
Atlantic	9	8	8	7	7	5	7	6	2	6	7	7	6	3	8	7	0	3	0	0	RZ, MS, SS, DAE
B0178-34	8	9	8	7	6	6	3	5	3	7	6	7	4	3	8	1	0	9	0	0	MS, SS
B0766-3	8	8	9	7	8	7	7	7	2	8	5	6	5	0	.	0	0	1	0	0	^RZ, SR, MS
B1339-2	7	8	8	6	6	7	5	7	2	8	3	7	5	0	.	2	0	0	0	0	CS, GC, RZ
B1870-1	5	8	8	6	6	7	5	7	2	8	6	8	8	0	.	0	1	0	0	0	RZ, GC, SS
B1884-9	7	8	8	6	6	6	6	6	5	7	8	8	5	6	8	1	0	12	0	0	MS, GC
NY112	6	8	9	7	7	5	6	5	5	8	6	8	8	5	7	1	0	0	2	0	SS, MS
NY121	6	8	8	7	6	7	6	8	2	7	2	8	3	0	.	0	0	1	0	0	^DSA, ^DAE, SR, SS
Pike	8	8	8	8	8	7	5	6	2	7	3	7	5	3	8	0	0	1	1	0	RZ, MS, GC
Snowden	9	8	8	6	6	5	7	6	2	5	5	8	6	1	8	0	0	2	0	0	MS
Superior	7	8	8	5	6	6	5	8	3	5	6	8	6	0	.	0	0	0	0	0	RZ, SS, MS
T2-2	7	8	9	7	7	5	5	6	5	7	8	8	7	0	.	0	0	0	1	0	^RZ, MS, SS

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart; VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes

**Table 7a. NE-184 Trial.** Total and marketable yield, percentage of total yield by size class, specific gravity, and chip scores of potato clones harvested 119 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>2</sup> (% of total yield)							1 7/8 to 4"	2 1/2 to 4"	Specific Gravity <sup>3</sup>	Chip Color <sup>4</sup>
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls					
AF1455-20	235	217	83	4	27	57	8	0	4	92	65	1.066	2	
AF1469-2	306	279	107	4	24	61	7	0	5	91	67	1.059	2	
AF1615-1	256	227	87	5	39	49	1	0	6	89	50	1.057		
AF1668-60	218	175	68	3	29	52	0	0	16	81	52	1.064		
AF1758-7	162	119	46	6	36	38	0	0	21	73	38	1.039		
AF1763-2	234	195	75	5	31	53	0	0	12	83	53	1.050	2	
AF1938-3	249	220	84	2	23	62	4	0	9	89	65	1.066	2	
Aquilon	311	264	102	5	28	57	0	0	9	85	57	1.069		
Atlantic	295	262	100	3	21	60	7	0	8	89	68	1.071		
B0766-3	254	225	86	6	30	55	3	0	6	88	58	1.070		
B1240-1	230	200	77	5	30	56	1	0	7	87	57	1.070	2	
B1425-9	268	230	89	10	43	43	0	0	4	86	43	1.076	3	
Envol	200	180	68	3	17	56	17	0	7	90	73	1.063		
Eva	208	194	75	4	31	62	0	0	2	94	62	1.063		
Katahdin	217	192	73	5	35	52	2	0	6	88	53	1.055		
Kennebec	261	232	89	3	30	57	2	0	8	89	59	1.060	3	
Keuka Gold	340	319	122	4	27	66	1	0	2	94	67	1.071	3	
NY112	311	298	114	3	29	66	2	0	1	96	67	1.069		
NY115	230	194	75	12	73	11	0	0	4	84	11	1.062		
Shepody	141	96	37	1	47	21	0	0	31	69	21	1.074		
Snowden	323	305	118	4	24	68	2	0	2	94	70	1.072	3	
Superior	227	211	80	4	35	58	0	0	3	93	58	1.061	4	
W1242	197	176	67	6	40	48	1	0	5	89	49	1.069		
W1313	232	199	76	10	39	47	0	0	4	86	47	1.079		
Yukon Gold	134	129	50	1	20	73	3	0	3	96	76	1.063		
Grand Mean	241	213												
CV (%)	11	12												
LSD (K=100)	35	34												

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's + 2's > 1 1/2"; 3's ≤ 1 1/2" ; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

<sup>4</sup> Chip Color Ratings conducted by Wise Foods Inc. and the NCSU potato breeding Program at the TRS/VGJREC:

1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

Table 7b. NE-184 Trial. Plant vine type, disease and air pollution scores, tuber external and internal attributes of potato clones harvested 119 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./40 tubers)						Comments <sup>4</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	SR	
AF1455-20	9	9	9	6	8	6	4	5	3	7	8	7	5	0	.	0	0	1	0	MS, RZ, SS
AF1469-2	6	9	8	5	6	6	5	7	3	7	7	8	7	0	.	0	0	0	0	RZ, MS, SS, SR
AF1615-1	9	8	8	7	6	7	5	6	5	8	7	8	4	0	.	0	0	0	0	MS, SR
AF1668-60	6	8	8	5	5	6	5	6	3	8	5	8	5	0	.	2	1	7	0	MS, RZ, SR, SS, GC
AF1758-7	5	8	8	5	6	5	5	7	4	7	6	7	3	16	8	2	1	8	0	RZ, MS, PTS
AF1763-2	5	7	7	4	6	7	5	7	4	7	6	8	4	0	.	0	0	0	0	MS, RZ, SR, GC
AF1938-3	5	8	8	5	6	6	6	3	2	7	7	5	4	0	.	2	0	5	0	RZ, MS, GC, EL
Aquilon	8	8	9	7	8	7	6	7	4	7	7	7	4	22	6	1	0	2	0	GC, DAE, SR, MS
Atlantic	8	8	8	6	7	5	7	7	2	7	7	7	6	9	8	9	0	8	0	DAE, DSA, MS, RZ, GC
B0766-3	9	8	8	8	6	5	7	5	2	8	6	8	6	0	.	2	0	1	0	SG, MS, RZ, SS
B1240-1	7	8	8	7	7	6	7	4	2	8	6	8	6	0	.	1	0	0	0	GC, SS, RZ
B1425-9	9	9	9	7	6	7	7	7	2	6	5	8	6	0	.	0	0	3	0	RZ, SS, MS, YF
Envol	5	8	8	5	8	6	4	7	5	4	8	8	5	0	.	0	0	4	0	MS, SG, RZ
Eva	8	8	8	6	8	7	7	7	2	8	6	6	7	0	.	0	0	0	0	^RZ
Katahdin	7	9	8	7	8	7	5	7	5	6	6	7	6	0	.	1	0	2	0	MS, GC, SS, SG, RZ
Kennebec	9	8	8	7	8	7	5	4	5	7	8	8	6	4	8	0	0	1	0	GC, SR, RZ, MS, SS
Keuka Gold	9	9	9	7	7	6	6	7	2	7	6	7	8	1	8	0	0	6	0	RZ, SR
NY112	9	8	8	8	5	5	5	5	3	8	7	8	8	1	8	3	0	0	0	SS
NY115	8	8	8	6	6	7	5	7	2	6	3	7	5	0	.	0	0	0	0	RZ
Shepody	7	8	8	7	8	7	7	5	8	7	7	6	3	5	8	0	1	1	0	MS, RZ, SR, SS, GC
Snowden	9	8	9	5	6	5	7	7	2	6	7	8	6	4	8	0	0	1	0	DSA, SG, DAE, SR, MS, SS
Superior	7	8	8	4	7	6	5	7	3	6	6	8	6	0	.	0	0	3	0	MS, SS
W1242	8	8	8	7	6	6	7	6	2	6	4	7	4	1	8	3	0	0	0	GC, SR, MS
W1313	9	9	8	8	7	5	5	6	2	7	5	7	5	1	8	8	0	1	0	^RZ, GC, MS, SS
Yukon Gold	7	8	8	6	7	7	5	7	3	7	6	7	7	10	8	2	0	4	0	MS, SR

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart;  
VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes

Table 8a. NE-184 Red-Skinned Potato Variety Trial. Total and marketable yield, percentage of total yield by size class, and specific gravity of potato clones harvested 114 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Yield		% Dk Rd Norland	Size Dist. by Class (%) <sup>2</sup> (% of total yield)							1 7/8 to 4	2 1/2 to 4	Specific Gravity <sup>2</sup>
	Total Yield cwt/A	Marketable Yield cwt/A		1's	2's	3's	4's	5's	Cull's				
B1816-5	214	154	96	11	49	23	0	0	17	72	23	1.064	
Cherry Red	159	112	68	5	28	41	2	0	25	70	42	1.069	
Chieftan	329	231	143	4	26	43	1	0	25	71	44	1.058	
CO86218-2	246	183	113	16	49	26	0	0	10	74	26	1.056	
Dakota Rose	247	213	131	5	29	52	5	0	9	86	57	1.055	
Dk Red Norland	218	165	100	11	47	29	0	0	13	75	29	1.058	
IdaRose	228	176	107	7	34	43	0	0	16	77	43	1.053	
MSI201-2PY	206	66	40	32	31	1	0	0	36	32	1	1.064	
ND3196-1R	271	237	145	5	39	48	0	0	7	87	48	1.055	
Nordonna	251	172	106	13	42	26	0	0	18	68	26	1.062	
GRAND MEAN	237	171											
CV (%)	13	14											
LSD (K=100)	41	31											

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's < 1 7/8"; 2's 1 7/8 to 2 1/2"; 3's 2 1/2 to 3 1/4" ; 4's 3 1/4 to 4"; 5's ≥ 4"; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

**Table 8b. NE-184 Red-Skinned Potato Variety Trial.** Plant vine type, disease and air pollution scores, maturity at ca. 3 weeks prior to harvest, and external and internal tuber attributes of potatoes harvested 114 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./40 tubers)					Comments <sup>4</sup>	
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC		SR
B1816-5	5	8	8	3	1	7	5	7	4	7	5	4	6	0	.	0	0	0	0	SIS, RZ, YF
Cherry Red	9	8	8	6	2	6	5	7	5	8	6	5	4	0	.	0	0	1	0	^RZ, GC, MS, SR
Chieftan	9	8	8	6	3	8	5	4	3	7	7	4	3	0	.	0	0	1	0	SG, RZ, GC, MS, SS
CO86218-2	9	8	9	8	2	6	5	4	2	7	5	5	4	0	.	1	0	0	0	RZ, MS, GC, STST
Dakota Rose	5	7	6	4	2	7	5	5	3	7	6	7	7	0	.	0	0	7	0	RZ, MS, GC, SIS
Dk Red Norland	5	8	8	5	2	7	5	7	2	6	5	5	5	0	.	0	0	0	0	RZ, GC, MS, SS
IdaRose	9	8	9	7	2	7	5	4	4	7	5	6	4	4	7	0	0	0	0	RZ, MS, GC, SG, STST
MSI201-2PY	9	8	9	7	1	7	7	3	5	7	4	3	2	0	.	1	0	1	0	MS, RZ, SG
ND3196-1R	7	8	8	5	2	7	5	6	3	6	5	7	6	0	.	6	0	34	0	SS, GC, MS, RZ, DAE
Nordonna	6	8	8	5	2	7	7	7	2	6	5	7	7	0	.	0	0	0	0	^RZ, MS, SG, GC, SIS

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart; VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes



**Table 9a. UNR Trial.** Total and marketable yield, percentage of total yield by size class, and specific gravity of potato clones harvested 116 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Total Yield		Marketable Yield		Size Distribution by Class <sup>2</sup>							Specific Gravity <sup>3</sup>
	cwt/A	cwt/A	% Atl.	(% of total yield)								
				1's	2's	3's	4's	5's	Culls	1 7/8 to 4"	2 1/2 to 4"	
AF2206-2	208	155	70	7	48	26	0	0	18	74	26	1.065
AF2206-7	185	142	65	3	25	49	2	0	20	77	52	1.079
AF2207-4	227	185	84	5	35	46	0	0	13	81	46	1.072
AF2210-3	319	220	100	3	34	36	0	0	28	69	36	1.068
AF2211-14	192	123	56	18	47	17	0	0	18	64	17	1.057
AF2211-4	272	199	90	3	31	42	0	0	23	73	42	1.047
AF2211-6	168	146	66	5	37	50	0	0	8	87	50	1.071
AF2211-9	226	141	64	2	19	41	2	0	35	62	43	1.068
AF2213-4	193	124	56	9	31	34	0	0	27	64	34	1.066
AF2214-1	306	234	106	4	21	47	8	0	19	76	56	1.066
AF2215-1	230	110	50	0	16	32	0	0	52	48	32	1.078
AF2215-3	250	244	111	2	23	74	0	0	1	97	74	1.068
AF2215-4	187	116	53	3	20	42	0	0	35	62	42	1.073
AF2215-5	175	58	26	3	12	19	1	0	63	33	21	1.075
AF2217-3	173	133	60	1	30	44	3	0	22	77	47	1.081
AF2219-1	143	85	39	2	23	33	3	0	38	60	36	1.067
AF2220-1	196	143	65	1	40	33	0	0	26	73	33	1.072
AF2220-2	130	121	55	2	34	60	0	0	5	93	60	1.068
AF2220-3	196	172	78	8	43	45	0	0	4	88	45	1.069
AF2220-7	220	193	88	3	33	54	0	0	10	88	54	1.074
AF2222-2	214	176	92	14	67	15	0	0	4	82	15	1.062
AF2222-3	212	175	92	13	43	40	0	0	4	83	40	1.074

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's < 1 7/8"; 2's 1 7/8 to 2 1/2"; 3's 2 1/2 to 3 1/4" ; 4's 3 1/4 to 4"; 5's ≥ 4"; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

Table 9b. UNR Trial. Plant vine type, disease and air pollution scores and tuber external and internal attributes of potato clones harvested 116 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./10 tubers)						Comments <sup>4</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VD	BC	SR	
AF2206-2	8	7	8	7	8	6	5	4	3	8	6	8	4	0	.	0	0	0	0	^ MS, CS, RZ
AF2206-7	8	8	8	5	8	6	5	5	2	7	7	8	4	0	.	0	0	0	0	^ CS, DAE
AF2207-4	6	8	8	6	6	6	5	5	4	7	5	8	4	0	.	0	0	0	0	MS, RZ, CS
AF2210-3	6	8	8	5	8	6	5	6	3	8	7	6	4	0	.	1	0	0	0	^ CS, MS, RZ
AF2211-14	6	8	8	5	6	6	5	4	3	8	3	7	5	1	7	4	0	1	2	SR, CS, MS
AF2211-4	8	9	8	8	6	5	4	4	3	8	7	5	4	0	.	10	1	0	0	CS, MS, SS
AF2211-6	5	8	8	5	6	6	5	5	2	6	6	8	6	9	6	0	0	0	0	MS, CS
AF2211-9	8	9	9	6	6	6	5	4	2	7	8	6	4	4	3	7	1	2	0	^ CS, GC, MS
AF2213-4	5	8	8	5	8	6	6	5	3	7	5	7	5	2	8	2	0	1	1	^ CS, SR
AF2214-1	6	9	8	8	6	5	5	4	2	8	8	8	5	0	.	0	0	0	0	GC, CS, MS
AF2215-1	8	9	8	7	6	6	7	5	2	8	5	5	3	0	.	0	0	1	0	^ CS, ^ MS
AF2215-3	5	8	9	5	6	7	4	6	3	6	6	8	6	3	8	0	0	0	0	RZ, CS
AF2215-4	5	9	8	6	6	6	5	4	3	6	7	7	4	1	5	2	0	0	0	^ CS, SSC, SR
AF2215-5	8	8	8	6	6	7	5	5	2	7	6	8	3	0	.	0	0	0	0	^ CS
AF2217-3	8	7	8	5	6	6	6	5	3	7	6	8	4	0	.	2	0	0	1	MS, DSA
AF2219-1	5	8	8	4	6	8	5	7	3	7	7	7	4	0	.	0	0	0	0	M CS, SR
AF2220-1	5	8	8	3	6	6	7	5	2	8	6	8	4	0	.	0	0	2	0	CS, MS
AF2220-2	5	8	8	4	6	6	7	5	2	8	6	8	5	0	.	0	0	0	0	SR, SS
AF2220-3	5	8	8	4	8	5	5	6	5	8	6	8	5	3	8	0	0	0	0	SR, RZ
AF2220-7	6	9	9	5	8	6	5	6	2	7	5	8	4	0	.	0	0	0	0	MS, CS
AF2222-2	6	8	8	6	6	7	4	5	2	7	3	7	5	0	.	0	0	0	0	RZ, MS
AF2222-3	9	8	8	8	6	6	5	3	3	6	7	7	5	0	.	0	0	0	0	MS, STST

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart;

VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes

Table 9a. Continued.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>2</sup> (% of total yield)							1 7/8 to 4"	2 1/2 to 4"	Specific Gravity <sup>3</sup>
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls				
AF2222-4	241	176	92	12	54	19	0	0	15	73	19	1.057	
AF2222-5	232	153	80	6	18	48	0	0	28	66	48	1.053	
AF2242-10	205	155	82	10	47	29	0	0	15	76	29	1.068	
AF2256-1	229	178	94	11	52	26	0	0	11	78	26	1.066	
AF2268-2	230	196	103	4	44	42	0	0	10	85	42	1.060	
AF2268-6	178	136	71	14	53	23	0	0	10	76	23	1.059	
AF2269-8	322	248	130	5	59	18	0	0	19	77	18	1.050	
AF2271-6	278	172	90	3	16	45	0	0	36	62	45	1.064	
ARSW97-1200-1	277	130	68	17	34	12	0	0	36	47	12	1.057	
ARSW97-4287-2	324	216	113	5	29	37	0	0	28	67	37	1.073	
Atlantic	262	214	100	5	25	53	4	0	13	82	57	1.068	
B1801-6	261	152	80	5	21	38	0	0	37	58	38	1.056	
B1870-3	289	225	118	6	23	55	0	0	16	78	55	1.057	
B1880-6	325	267	140	6	26	52	4	0	12	82	56	1.066	
B1927-14	238	112	59	9	35	12	0	0	44	47	12	1.063	
B1952-2	216	181	95	4	29	55	0	0	12	84	55	1.069	
B1952-4	202	145	76	25	59	12	0	0	4	72	12	1.077	
B1957-1	126	99	52	11	77	2	0	0	11	79	2	1.062	
B1958-85	229	177	93	9	55	22	0	0	13	77	22	1.058	
B1960-18	200	157	68	4	31	47	0	0	18	78	47	1.062	
B1970-11	222	165	71	16	56	19	0	0	10	74	19	1.065	
B1970-14	218	137	59	21	50	13	0	0	17	63	13	1.067	
B1970-5	178	136	58	3	30	43	4	0	20	76	47	1.062	
B1970-9	202	152	65	11	67	8	0	0	14	75	8	1.061	

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's < 1 7/8"; 2's 1 7/8 to 2 1/2"; 3's 2 1/2 to 3 1/4" ; 4's 3 1/4 to 4"; 5's ≥ 4"; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

Table 9b. Continued.

CLONE	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./10 tubers)						Comments <sup>4</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VD	BC	SR	
AF2222-4	5	9	7	5	6	7	5	7	3	8	5	8	5	0	.	0	0	0	0	^CS, SR
AF2222-5	6	8	9	6	6	6	5	7	2	8	7	7	3	0	.	0	0	0	0	GC, ^CS, SR, RZ
AF2242-10	6	8	8	6	6	7	7	6	3	7	5	7	5	0	.	0	0	0	0	MS, CS
AF2256-1	8	8	8	9	6	6	5	4	4	8	6	8	5	0	.	1	0	0	0	MS, GC
AF2268-2	8	8	7	5	8	7	6	5	3	7	6	7	4	0	.	0	0	0	0	CS, SS
AF2268-6	7	8	8	5	6	6	5	4	2	7	5	8	5	0	.	0	0	2	0	MS
AF2269-8	9	8	8	8	8	7	5	5	4	7	6	7	4	0	.	0	0	0	0	GC, SS, MS
AF2271-6	6	9	8	7	8	6	5	4	5	8	7	7	3	6	7	0	0	3	0	^MS, RZ, SS
ARSW97-1200-1	9	9	9	8	6	6	6	5	3	8	3	7	5	0	.	0	0	0	0	GC, RZ, CS
ARSW97-4287-2	9	9	9	8	6	5	6	6	4	8	7	6	5	1	8	0	0	0	0	^CS
Atlantic	8	9	8	6	6	5	5	5	3	7	7	8	5	3	7	4	0	2	0	RZ, CS, MS, SR
B1801-6	6	9	9	6	6	7	5	5	2	7	7	6	6	0	.	0	0	0	0	^CS, YF
B1870-3	6	9	9	6	6	6	5	5	3	7	6	8	6	0	.	0	0	0	0	SS, SG, CS, RZ
B1880-6	6	7	8	5	6	6	5	6	2	7	7	8	6	0	.	0	0	0	0	MS, RZ
B1927-14	6	9	8	5	8	7	5	7	2	7	5	7	4	0	.	0	0	0	0	^CS, RZ, SR
B1952-2	8	8	9	7	1	7	5	7	3	7	6	8	7	1	8	0	0	0	0	SR, CS, SIS
B1952-4	8	8	9	7	2	7	5	6	2	6	2	8	4	0	.	0	0	0	0	SR, SIS, YF
B1957-1	9	9	9	7	5	4	5	4	5	8	5	8	4	2	8	0	0	0	0	CS, MRZ
B1958-85	8	8	8	7	8	5	5	6	5	8	6	8	4	2	8	0	0	0	0	^MS, SR
B1960-18	9	8	8	7	6	6	5	6	4	6	6	8	5	0	.	0	0	1	0	GC, MS
B1970-11	5	7	8	5	8	7	5	5	5	7	6	8	5	0	.	1	0	0	0	ELS, MS, RZ
B1970-14	9	8	8	7	6	8	7	6	3	8	5	8	5	0	.	0	0	0	0	EL, GC, MS
B1970-5	6	6	8	8	8	6	6	7	2	8	5	8	5	4	5	0	0	3	0	^RZ
B1970-9	6	9	9	7	8	6	5	5	4	8	5	8	4	0	.	4	0	0	0	SR, MS

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart;

VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes

Table 9a. Continued.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>2</sup> (% of total yield)						1 7/8 to 4"	2 1/2 to 4"	Specific Gravity <sup>3</sup>
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls			
B1971-11	296	237	102	7	26	55	0	0	13	80	55	1.061
B1973-3	260	203	87	18	62	16	0	0	4	78	16	1.063
B1991-126	222	178	77	7	29	51	0	0	13	80	51	1.048
B1992-177	201	156	67	7	30	47	0	0	16	78	47	1.055
B2000-185	290	227	98	3	17	59	3	0	19	78	62	1.068
B2001-186	311	242	105	11	45	33	0	0	11	78	33	1.063
B2001-197	232	198	85	1	27	54	4	0	14	85	58	1.056
B2003-133	260	216	93	11	47	36	0	0	6	83	36	1.067
B2003-140	216	154	66	12	46	25	0	0	17	71	25	1.073
B2008-177	160	123	53	21	75	2	0	0	2	77	2	1.076
B2018-7	212	155	67	18	66	7	0	0	9	73	7	1.064
B2021-12	189	84	36	52	44	0	0	0	4	44	0	1.062
B2021-3	200	93	40	39	44	3	0	0	15	46	3	1.066
B2024-10	298	261	113	4	32	53	3	0	8	88	56	1.070
B2024-26	283	251	108	4	47	42	0	0	7	89	42	1.072
B2024-33	258	229	106	7	47	42	0	0	4	89	42	1.063
B2024-9	329	257	119	13	59	19	0	0	9	78	19	1.057
B2029-1	44	14	7	3	23	11	0	0	64	33	11	N/A
B2049-2	172	116	54	9	65	2	0	0	24	68	2	1.063
B2054-6	351	309	143	1	20	64	4	0	11	88	68	1.060
B2055-7	284	215	100	1	18	46	12	0	23	76	58	1.062
Snowden	305	268	136	5	31	54	3	0	7	88	57	1.072
Superior	276	204	124	3	27	48	1	0	21	75	48	1.071
T11-2	277	245	114	6	28	57	3	0	6	89	60	1.055

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill<sup>2</sup> Size classes: 1's < 1 7/8"; 2's 1 7/8 to 2 1/2"; 3's 2 1/2 to 3 1/4" ; 4's 3 1/4 to 4"; 5's ≥ 4"; Culls = all defective potatoes.<sup>3</sup> Determined by weight in air/water method.

Table 9b. Continued.

CLONE	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./10 tubers)						Comments <sup>4</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VD	BC	SR	
B1971-11	9	7	8	7	6	5	5	4	5	7	7	8	5	0	.	4	0	0	0	GC, MS
B1973-3	9	9	9	8	6	7	5	6	4	8	5	8	7	7	7	0	0	1	0	MS, SS, RZ, CS
B1991-126	8	9	8	8	8	7	4	3	5	8	8	8	5	1	8	0	0	0	0	MS, CS
B1992-177	5	9	8	6	6	5	5	5	2	8	5	7	6	0	.	0	0	0	0	CS, RZ
B2000-185	9	9	9	9	6	6	5	5	3	8	8	7	6	0	.	0	0	4	0	CS, SS, MS
B2001-186	6	9	9	7	8	7	7	5	4	7	5	7	6	0	.	5	0	0	0	MS, CS, SS
B2001-197	8	8	9	7	6	7	6	4	3	8	7	8	5	0	.	0	0	0	0	MS, RZ
B2003-133	6	8	9	7	6	7	7	5	4	8	7	8	4	0	.	0	0	0	0	PTS, MS
B2003-140	6	8	8	5	6	7	7	6	4	8	5	7	6	0	.	3	0	4	0	GC, MS, ^ SR
B2008-177	6	7	7	4	8	7	7	7	3	7	3	7	5	0	.	0	0	0	0	SR, RZ
B2018-7	8	8	9	6	6	7	6	5	4	8	5	7	6	1	8	0	0	0	0	SR, CS, RZ
B2021-12	9	8	8	9	2	8	7	7	3	6	2	8	5	0	.	0	0	0	0	SR, SIS, YF
B2021-3	9	9	9	8	2	8	5	6	3	5	2	8	4	0	.	0	0	0	0	^ MS, GC, SR, PTS, YF
B2024-10	9	9	9	8	6	5	5	4	4	7	7	8	6	1	7	0	0	0	0	SR, MS, YF
B2024-26	9	9	8	8	7	5	5	5	3	8	5	8	6	0	.	0	0	0	0	MS
B2024-33	6	8	8	5	7	6	4	5	2	8	5	8	7	0	.	0	0	0	0	MS, YF
B2024-9	9	8	9	6	6	6	5	6	5	8	5	8	6	0	.	0	0	0	1	SR, RZ
B2029-1	5	7	9	6	6	8	7	7	3	7	5	3	3	0	.	0	0	0	3	^ SR, YF
B2049-2	5	7	8	5	4	2	5	6	5	7	3	8	6	0	.	0	0	2	0	RZ, GC
B2054-6	9	8	9	6	2	7	7	4	6	8	9	8	5	3	7	0	0	0	0	MS, HS
B2055-7	6	9	9	6	6	7	5	4	5	8	9	7	3	0	.	0	0	0	2	RZ, GC, SR, MS
Snowden	9	9	8	7	7	5	5	4	2	6	5	7	5	1	8	0	0	1	0	DAE, DSA, ^ MS
Superior	8	9	8	5	6	6	5	5	3	7	7	7	5	1	8	2	1	2	0	EL, MS, RZ, SR, CS, SS
T11-2	8	9	8	8	2	7	7	5	2	8	6	8	7	0	.	0	0	0	0	RZ

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart;

VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes

Table 9a. Continued.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>2</sup> (% of total yield)						1 7/8 to 4"	2 1/2 to 4"	Specific Gravity <sup>3</sup>
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls			
T15-1	274	210	97	13	47	28	2	0	10	77	29	1.005
T15-3	253	218	101	8	55	31	0	0	5	86	31	1.054
T17-2	261	189	88	10	61	12	0	0	17	72	12	1.058
T20-15	300	257	119	9	37	49	0	0	5	86	49	1.063
T27-21	308	221	103	5	27	45	0	0	23	72	45	1.060
T35-34	222	177	82	14	55	25	0	0	7	80	25	1.071
T37-3	223	166	77	15	61	13	0	0	11	74	13	1.064
T3-9	232	183	85	18	52	27	0	0	3	79	27	1.059
T88-19	244	181	84	7	38	36	0	0	19	74	36	1.064
U106-26	163	148	69	5	39	52	0	0	4	91	52	1.062
U109-6	159	88	41	7	35	21	0	0	37	56	21	1.061
U47-2	159	132	61	9	46	37	0	0	8	83	37	1.071
U47-21	223	174	81	16	47	31	0	0	6	78	31	1.072
Grand Mean	232	174										

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's < 1 7/8"; 2's 1 7/8 to 2 1/2"; 3's 2 1/2 to 3 1/4" ; 4's 3 1/4 to 4"; 5's ≥ 4"; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

Table 9b. Continued.

CLONE	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>									Internal Defects <sup>3</sup> (no./10 tubers)						Comments <sup>4</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VD	BC	SR	
T15-1	5	7	8	6	2	6	5	5	4	7	5	7	6	0	.	0	0	0	0	SS, RZ
T15-3	6	9	8	4	2	7	7	6	3	7	5	8	7	0	.	0	0	0	0	CS
T17-2	6	9	8	5	2	7	7	5	5	8	5	6	5	0	.	0	0	0	0	MS, RZ, STST
T20-15	9	9	8	8	6	6	6	7	2	7	5	8	4	2	8	0	0	2	0	DSA, DAE, SR, RZ
T27-21	9	9	9	8	8	7	7	4	2	6	7	7	4	0	.	0	0	0	0	RZ, GC, SS, DSA
T35-34	6	9	8	7	6	5	5	5	2	6	5	8	6	0	.	0	0	0	0	MCS
T37-3	6	9	8	5	8	8	5	7	2	8	5	7	5	0	.	0	0	0	0	CS, SR, MS
T3-9	6	9	8	6	8	8	6	5	3	6	3	7	6	0	.	0	0	0	0	MS, SS
T88-19	6	8	8	5	8	7	5	6	2	6	6	7	4	0	.	0	0	0	0	CS, MS
U106-26	8	7	8	6	8	7	5	7	3	7	6	8	6	0	.	0	0	0	0	SS, SR
U109-6	7	8	8	4	6	7	7	7	2	7	5	7	4	1	8	0	0	0	0	^ RZ
U47-2	8	8	8	5	8	6	5	4	3	8	6	8	5	0	.	0	0	0	0	MS, SS, RZ
U47-21	6	8	8	8	8	6	7	6	2	6	5	8	7	0	.	0	0	0	0	MS, SR

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart;  
VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes



Table 10a. Early Generation Yield Trial. Total and marketable yield, percentage of total yield by size class, specific gravity, and chip scores of potato clones harvested 114 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>2</sup> (% of total yield)							1 7/8 to 4"	2 1/2 to 4"	Specific Gravity <sup>3</sup>	Chip Color <sup>4</sup>
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls					
Atlantic	261	247	100	5	36	57	1	0	0	94	58	1.083	2	
B1990-17	317	291	119	7	34	56	2	0	1	92	58	1.060	1.5	
B1990-3	299	268	111	6	33	53	4	0	4	90	57	1.077	3.5	
B1990-4	360	333	137	4	23	64	5	0	3	93	69	1.078	3	
B1992-106	183	166	69	9	48	42	1	0	1	91	43	1.071	2	
B1992-125	272	222	91	18	53	28	0	0	1	82	28	1.077	2	
B1992-160	281	246	101	4	27	59	2	0	8	88	61	1.081	3	
B1992-166	266	241	99	6	29	54	8	0	3	91	62	1.074	3.5	
B1992-66	220	203	83	4	20	71	1	0	4	92	72	1.062	2	
B1992-72	178	130	54	26	60	13	0	0	1	73	13	1.068	3	
B1999-175	218	176	72	9	52	29	0	0	11	81	29	1.071	3.5	
B2000-81	339	312	127	3	30	62	0	0	4	92	62	1.077	3.5	
B2001-146	291	273	111	4	26	67	1	0	2	94	68	1.067	1.5	
B2001-184	223	181	74	7	43	37	1	0	12	81	38	1.067	2	
B2001-29	297	283	116	2	17	71	8	0	3	95	79	1.067	1.5	
B2001-6	129	106	44	8	65	18	0	0	10	82	18	1.062	2	
B2008-34	159	134	54	12	55	30	0	0	4	84	30	1.074	1.5	
B2016-31	237	227	93	3	20	71	6	0	2	96	76	1.068	1.5	
Grand Mean	252	224												
CV (%)	12	12												
LSD (K=100)	40	38												

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> Size classes: 1's + 2's > 1 1/2"; 3's ≤ 1 1/2" ; Culls = all defective potatoes.

<sup>3</sup> Determined by weight in air/water method.

<sup>4</sup> Chip Color Ratings conducted by Wise Foods Inc. and the NCSU potato breeding Program at the TRS/VGJREC:

1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

Table 10b. Early Generation Yield Trial. Plant vine type, disease and air pollution scores, tuber external and internal attributes of potato clones harvested 119 DAP<sup>1</sup> at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2001.

CLONE	Plant Data <sup>2</sup>				Tuber Data <sup>2</sup>								Internal Defects <sup>3</sup> (no./40 tubers)					Comments <sup>4</sup>		
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR		BC	SR
Atlantic	8	8	8	6	6	5	5	5	2	6	7	7	6	1	8	4	0	0	1	SR, DAE, DSA
B1990-17	6	8	8	5	8	6	5	7	2	8	7	7	8	0	-	0	0	0	0	SR, GC
B1990-3	9	9	9	8	6	6	5	4	3	7	7	8	5	0	-	0	0	0	0	GC, MS, SS, SR
B1990-4	9	9	9	8	6	6	7	4	4	7	8	8	5	0	-	0	0	0	1	SS, RZ, STST, MS
B1992-106	8	8	8	8	5	5	5	6	3	8	6	8	6	0	-	0	0	0	0	MS, RZ
B1992-125	8	8	8	6	6	6	5	7	2	8	3	7	6	0	-	18	0	0	0	RZ, SS
B1992-160	9	8	8	7	5	6	7	6	4	8	9	8	6	0	-	22	0	0	1	MS, GC, STST, SR
B1992-166	9	9	9	8	6	6	7	5	3	8	7	7	6	0	-	0	0	0	0	RZ, MS, SG
B1992-66	6	8	8	5	5	5	5	7	4	7	6	8	7	0	-	31	0	0	0	SS
B1992-72	7	8	8	6	6	6	7	7	2	7	3	8	5	0	-	2	0	2	0	RZ, GC, SS
B1999-175	6	8	9	5	6	8	5	7	5	8	5	6	4	0	-	0	0	0	0	PTS, ^RZ, MS, SR, SS
B2000-81	9	9	8	7	6	6	5	7	5	8	7	7	6	0	-	0	0	0	0	SS, RZ, EL
B2001-146	9	8	9	6	6	6	5	6	5	7	7	7	5	6	8	0	0	1	0	SS, RZ
B2001-184	8	8	9	5	5	7	7	6	2	7	5	3	3	0	-	1	0	0	0	^RZ
B2001-29	9	8	9	6	6	7	7	3	2	7	8	8	4	0	-	13	0	0	0	^DAE, ^MS, ^DSA, RZ
B2001-6	6	8	7	5	6	6	5	7	6	8	5	8	5	0	-	0	1	0	0	PTS
B2008-34	5	8	8	5	6	8	7	7	3	7	4	8	5	0	-	0	0	0	0	RZ, MS, SS
B2016-31	5	8	8	5	8	8	7	3	3	7	8	8	5	0	-	0	0	0	0	SR, MS, EL, ~DAE

<sup>1</sup> DAP = Days After Planting; DVK = Days to Vine Kill

<sup>2</sup> See NE184 Standard Potato Rating System for key to scores in Appendix 2.

<sup>3</sup> HN=heat necrosis; HNR=average heat necrosis rating (Rating Scale: 1= very severe to 9 = absent); HH=hollow heart; VR=vascular ring discoloration; BC=brown center; SR=soft rot

<sup>4</sup> See Appendix 4 for Comment Codes