

Table 1a. Bright Variety Trial. Total and marketable yield, percentage of total yield by size class and specific gravity of potato clones harvested 109 days after planting at Bright's Farm, Weeksville, Pasquotank Co., NC - 1998.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>1</sup> (% of total yield)			Culls	Specific Gravity <sup>2</sup>
		cwt/A	% Atl.	1's+2's	3's			
AF1437-1	317	287	90	90.7	5.0	4.3	1.066	
AF1569-2	319	268	84	84.1	6.6	9.3	1.061	
AF1668-60	110	100	31	90.4	5.7	3.9	1.066	
AF875-15	328	285	89	86.8	7.3	5.9	1.072	
Atlantic	358	321	100	89.6	4.6	5.8	1.077	
B0178-34	291	258	82	88.4	6.7	4.9	1.078	
B0564-8	310	278	87	89.7	8.9	1.4	1.075	
B0564-9	322	297	93	92.1	3.9	4.0	1.066	
B0766-3	257	214	66	79.9	12.6	7.4	1.069	
La Chipper	324	280	87	86.2	5.2	8.6	1.066	
ND2470-27	307	248	78	81.1	10.0	8.9	1.069	
ND3574-5R	144	114	36	79.2	14.8	6.0	1.057	
NY115	166	141	44	84.5	9.4	6.1	1.066	
NY120	297	262	82	88.4	5.5	6.1	1.071	
R17-106	373	318	100	85.4	11.7	3.0	1.062	
R17-7	375	324	101	86.4	9.3	4.3	1.058	
Red Cloud	244	211	66	86.3	7.9	5.7	1.061	
Red Gold	243	203	63	83.0	10.2	6.8	1.070	
Snowden	339	308	97	90.9	5.4	3.7	1.069	
Superior	268	239	75	89.0	6.2	4.7	1.066	
Grand Mean	285	248						
CV (%)	14	16						
LSD (K=100)	52	52						

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

<sup>2</sup> Determined by weight in air/water method.

Table 1b. Bright Variety Trial. Plant vine type, disease and air pollution scores, maturity at ca. 3 weeks prior to harvest, external and internal tuber attributes, and chip scores of potato clones harvested 109 days after planting at Bright's Farm, Weesville, Pasquotank Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>									Internal Defects (no./40 tubers)			Chip <sup>2</sup>	Color	Comments <sup>3</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC		
AF1437-1	5	8	9	5	6	6	6	6	3	7	7	8	6	0	0	0	0	5.0	SG, GC
AF1569-2	6	9	9	6	6	6	6	6	3	8	7	8	6	0	0	0	0	4.0	MS, L SS
AF1668-60	5	9	9	6	6	6	5	5	4	8	6	8	4	0	0	0	0	-	MH, L CPB, SS, SG
AF875-15	6	7	8	6	6	6	6	5	3	7	6	7	5	0	0	0	0	3.0	SG, SS, DAE
Atlantic	6	8	9	6	6	5	6	5	3	7	7	7	6	11	2	0	0	3.5	HN=8, EB, SS, RZ, MS, SR, MS
B0178-34	7	7	9	6	6	7	6	5	4	7	7	7	5	2	0	0	0	2.0	HN=8, SG, RZ
B0564-8	6	8	9	5	6	5	7	8	2	8	6	8	9	0	0	0	0	2.5	SS
B0564-9	7	8	9	6	6	5	7	6	2	7	7	7	7	0	0	0	0	3.5	RZ, SS
B0766-3	6	9	9	6	6	6	7	7	2	8	7	8	5	1	2	0	0	2.5	HN=8, L SG, SS, MS, DAE
La Chipper	6	9	9	6	6	7	5	5	3	2	8	8	3	0	0	2	0	5.0	MS, DAE, lumpy
ND2470-27	7	9	9	6	6	7	6	6	4	6	6	8	4	0	0	0	0	2.5	CPB, GC, PTS
ND3574-5R	5	7	8	4	2	8	6	7	4	6	5	8	5	0	0	0	0	-	CPB, EB, GC, SR, MS, SS
NY115	5	7	9	5	6	7	6	6	3	8	7	8	7	0	0	0	0	2.0	MH, GC, SS, MS, YF
NY120	6	8	8	5	6	6	6	6	3	7	7	8	4	0	0	2	0	2.0	CPB, EB, MS, SG
RL7-106	6	7	9	6	6	6	6	7	2	8	7	8	7	0	0	0	0	3	SS
RL7-7	6	8	9	6	6	5	6	7	2	8	7	8	6	0	0	0	0	3.0	SS, GC, SG
Red Cloud	7	9	9	7	2	7	6	4	3	4	7	8	4	0	0	0	0	-	MS, SS
Red Gold	6	8	7	5	2	7	7	8	2	5	5	8	7	0	0	0	0	-	SR, SG
Snowden	6	9	8	6	6	5	7	7	2	5	5	8	7	0	0	1	0	2.0	SG, SS, GC
Superior	6	8	9	5	6	6	7	7	2	5	6	8	7	0	0	0	4	3.0	SS

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSTD=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSID=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).

Table 2a. Cooper Variety Trial. Total and marketable yield, percentage of total yield by size class and specific gravity of potato clones harvested 104 days after planting at Cooper's Farm, Gum Neck, Tyrell Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield			Size Dist. by Class <sup>1</sup> (% of total yield)			Specific Gravity <sup>2</sup>
		cwt/A	% Atl.	1's+2's	3's	Culls		
AF1437-1	391	365	116	93.6	5.1	1.2	1.052	
AF1569-2	399	374	114	93.6	4.6	1.7	1.060	
AF1668-60	210	196	62	93.3	4.3	2.4	1.066	
AF875-15	310	275	87	88.4	9.9	1.7	1.067	
Atlantic	365	335	100	91.7	6.3	2.0	1.072	
B0178-34	369	345	104	93.1	6.3	0.7	1.076	
B0564-8	347	315	100	91.4	7.5	1.1	1.068	
B0564-9	326	300	90	92.0	4.8	3.2	1.067	
B0766-3	361	341	107	94.3	5.1	0.6	1.069	
La Chipper	333	297	91	89.0	9.5	1.6	1.062	
ND2470-27	360	321	98	89.1	6.6	4.4	1.062	
Keuka Gold (NY101)	380	349	113	91.6	4.4	4.0	1.061	
Eva (NY103)	333	294	89	88.1	4.5	7.5	1.061	
NY112	299	273	84	90.8	8.0	1.2	1.060	
NY115	248	222	69	89.3	8.1	2.6	N/A	
NY120	343	311	99	90.9	6.7	2.4	1.054	
R17-106	380	327	102	84.3	13.5	2.1	1.063	
R17-7	366	308	98	83.8	12.7	3.5	1.056	
Snowden	314	278	84	86.4	12.2	1.4	1.064	
Superior	380	356	113	93.7	5.4	0.8	1.067	
Grand Mean	341	309						
CV (%)	20	22						
D-W LSD (K=100)	104.6	106.2						

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

<sup>2</sup> Determined by weight in air/water method.

Table 2b. Cooper Variety Trial. Plant vine type, disease and air pollution scores, maturity at ca. 3 weeks prior to harvest, external and internal tuber attributes, and chip scores of potato clones harvested 104 days after planting at Cooper's Farm, Gum Neck, Tyrrell Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>									Internal Defects (no./40 tubers)				Chip <sup>2</sup>	
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC	Color	Comments <sup>3</sup>
AF1437-1	4	9	9	5	6	5	6	7	2	7	7	8	7	0	0	0	0	3	MS, GC
AF1569-2	6	8	8	5	6	6	6	6	2	8	7	8	7	0	0	0	0	3	PLRV?, CS, GC
AF1668-60	5	8	7	5	6	6	5	7	2	8	5	8	5	5	0	0	0	2	HN=8, WW, SS
AF875-15	6	8	6	5	6	7	6	7	2	6	3	8	5	0	0	0	0	3	EB, DAE, CS, MS
Atlantic	7	8	8	6	6	5	6	6	2	8	7	8	7	3	0	0	0	3.5	HN=8, SR, MS, SS
B0178-34	8	7	9	7	6	7	6	7	7	7	6	8	7	3	0	0	3	2	HN=7, SS
B0564-8	5	7	8	5	6	6	7	8	2	8	6	8	9	0	0	0	0	2	EB, Rz
B0564-9	6	7	7	5	6	6	7	6	2	6	7	8	7	0	1	0	0	3	CS, RZ, SR
B0766-3	6	9	8	5	6	5	6	5	2	7	7	8	7	0	0	0	0	3	DAE
La Chipper	6	8	8	5	6	7	5	7	3	5	5	8	4	0	1	0	0	3	PR, MS
ND2470-27	5	7	5	4	6	8	6	6	3	7	5	8	6	0	0	0	0	2	MS
K. Gold (NY101)	8	9	9	6	6	6	5	5	2	7	7	8	6	0	0	0	0	4	HI, L MS, CS
Eva (NY103)	6	9	9	5	6	7	6	6	4	8	7	8	7	0	1	0	0	3.5	GC, L MS, CS
NY112	7	9	9	6	6	5	6	7	4	8	7	8	7	0	0	0	0	2	MS
NY115	6	9	8	5	6	7	6	6	3	8	6	8	6	0	0	0	0	3	HI, MS
NY120	6	9	7	6	6	7	5	6	2	8	5	8	6	0	0	0	0	2.5	MS, SR
R17-106	6	8	9	5	6	7	5	5	3	8	7	8	7	0	1	0	0	3.5	EB, MS
R17-7	6	9	8	5	6	6	6	7	3	7	6	8	8	0	0	0	0	2.5	MS
Snowden	6	7	6	5	6	5	6	2	2	6	5	8	7	0	0	0	0	2	MS
Superior	6	9	9	5	6	6	6	7	2	5	6	8	7	0	0	0	0	2.5	RZ, CS

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSTD=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSID=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).

Table 3a. McCotter Variety Trial. Total and marketable yield, percentage of total yield by size class and specific gravity of potato clones harvested 107 days after planting at McCotter's Farm, Bayboro, Pamlico Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>1</sup>			Specific Gravity <sup>2</sup>
		cwt/A	% Atl.	(% of total yield 1's+2's	3's	Culls	
AF1437-1	250	213	138	84.7	11.8	3.5	1.067
AF875-15	265	218	137	81.8	13.3	5.0	1.085
Atlantic	207	159	100	76.9	15.5	7.6	1.094
B0178-34	210	177	112	84.2	11.7	4.0	1.083
B0564-8	222	182	114	81.1	17.5	1.4	1.090
B0564-9	242	208	129	85.2	10.7	4.1	1.092
B0766-3	202	166	107	82.3	15.7	2.0	1.089
B1415-7	195	178	113	91.1	8.2	0.6	1.075
B1491-5	212	131	86	61.0	23.1	15.9	1.076
B1493-3	177	123	75	67.1	31.3	1.5	1.089
B9922-11	200	148	97	73.9	13.1	13.1	1.077
Cherry Red	195	143	93	73.5	12.0	14.4	1.085
La Chipper	248	189	125	75.5	11.9	12.7	1.078
ND3574-5R	169	87	56	50.7	28.7	20.6	1.062
NY112	221	194	126	87.3	11.0	1.7	1.079
Red Cloud	202	169	106	83.2	7.9	8.8	1.072
Red Gold	236	171	107	72.1	23.3	4.7	1.079
Red LaSoda	248	191	122	76.4	10.0	13.6	1.070
Snowden	248	209	133	84.1	12.6	3.3	1.082
Superior	231	194	123	84.2	11.1	4.7	1.079
Grand Mean	219	172					
CV (%)	16	22					
LSD (K=100)	51	58					

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

<sup>2</sup> Determined by weight in air/water method.

Table 3b McCotter Variety Trial. Plant vine type, disease and air pollution scores, maturity at ca. 3 weeks prior to harvest, external and internal tuber attributes, and chip scores of potato clones harvested 107 days after planting at McCotter's Farm, Vandemere, Pamlico Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>									Internal Defects (no./40 tubers)			Chip <sup>2</sup>		Comments <sup>3</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC	Color	
AF1437-1	3	9	8	4	6	7	7	7	2	7	4	6	6	0	0	8	1	4	CPB, SR, GC
AF875-15	6	7	6	3	6	8	4	7	3	6	5	7	5	0	0	6	0	3.5	PVY, PVW, CPB, L SC, GC
Atlantic	7	8	8	4	7	6	7	7	2	7	6	7	6	1	1	3	0	2.5	SR, GC, MS, HN=8
B0178-34	9	7	8	4	6	7	6	6	3	7	5	8	6	0	0	2	0	2.5	SS
B0564-8	7	8	8	3	7	6	7	7	2	8	5	8	8	0	0	2	0	3	nice
B0564-9	8	8	8	4	7	6	7	7	2	6	7	7	8	0	0	0	0	2.5	EB, SR, SS
B0766-3	6	9	8	3	6	8	7	7	2	7	6	8	7	0	1	1	0	3	SR, EL's
B1415-7	9	9	9	5	6	7	7	3	2	7	8	8	7	0	0	3	1	2.5	L SKN
B1491-5	8	8	6	3	2	8	7	7	2	5	4	8	5	1	0	0	0	0	HN=8, YF, L MS, SS, SR
B1493-3	6	8	6	3	2	7	8	7	2	6	3	7	6	0	0	0	0	0	DAE, SiSc, YF
B9922-11	6	9	8	4	4	3	6	5	7	8	3	8	4	0	0	5	0	0	MS, GC
Cherry Red	7	9	8	4	2	7	7	7	5	6	6	5	5	0	0	1	2	0	L MS, SS, L SiSc, L MS, CS
La Chipper	7	8	7	4	9	7	5	6	2	5	6	8	4	0	0	1	0	4.5	L MS, SS
ND3574-5R	5	7	4	2	2	8	7	7	4	7	3	5	3	0	0	0	0	0	GC, SiSc, CS, MS, SR
NY112	8	9	8	5	7	6	6	4	3	8	7	9	6	0	0	2	0	2	L SKN
Red Cloud	6	9	8	3	2	7	5	5	3	7	6	6	4	0	0	2	0	0	GC, SiSc, MS
Red Gold	6	8	6	2	0	7	7	7	2	6	5	7	6	0	0	0	0	0	CS, L SR
Red LaSoda	6	8	7	4	2	8	7	7	3	2	5	6	3	0	0	3	7	0	L GC, L SR, MS, CS
Snowden	8	8	7	5	7	6	7	7	2	6	5	8	7	0	0	0	0	2	
Superior	6	8	8	3	6	7	6	7	2	5	6	6	7	0	0	0	0	3.5	CS, SR

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSTD=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSID=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).

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 113 days after planting at Tull Hill Farms, Kinston, Lenoir Co., NC

CLONE	Total Yield cwt/A	Marketable Yield cwt/A	% Chief.	Size Distribution by Class <sup>1</sup> (% of total yield)			Specific Gravity
				1s+2's	3's	Culls	
B1492-12	325	267	88	82.2	15.6	2.2	1.065
B1493-1	284	189	60	65.1	23.4	11.5	1.070
B1495-6	196	150	49	76.4	19.7	3.9	1.066
Cherry Red	314	275	90	87.4	8.9	3.6	1.072
Chieftan	336	309	100	91.9	6.3	1.8	1.058
ND3574-5R	256	230	76	89.8	8.4	1.8	1.057
ND5084-3R	326	276	90	84.3	3.3	12.4	1.051
Nordonna	328	296	96	90.4	8.7	0.9	1.061
Red Cloud	273	219	72	80.4	11.0	8.6	1.064
Red Gold	340	301	98	88.1	10.9	0.9	1.074
Red LaSoda	355	319	105	89.7	4.4	5.9	1.056
Superior	326	311	101	95.5	4.0	0.5	1.069
Grand Mean	305	262					
CV (%)	10	11					
LSD (K=100)	40	39					

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

<sup>2</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. 3 weeks prior to harvest, and external and internal tuber attributes of potato clones harvested 113 days at Tull Hill Farms, Kinston, Lenoir Co., NC

CLONE	Plant Data <sup>1</sup>			Tuber Data <sup>1</sup>								Internal Defects (no./40 tubers)				Comments		
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH		BC	VR
B1492-12	6	6	8	5	2	6	6	6	2	6	5	8	6	0	0	1	0	PTS
B1493-1	6	6	9	5	3	7	6	5	3	6	5	8	5	5	0	0	0	L MS, EL, GC
B1495-6	6	6	7	4	2	6	5	4	4	8	6	8	5	0	0	0	0	YF, EL, SR
Cherry Red	6	6	9	5	2	6	5	7	4	7	6	8	7	0	0	0	0	EL, MS, DAE
Chieftan	9	9	9	6	3	8	5	3	5	3	7	8	3	0	0	0	0	SR
ND3574-5R	5	5	5	4	2	8	7	6	4	8	6	8	8	0	0	0	0	
ND5084-3R	8	8	9	7	2	7	7	3	2	6	9	8	5	0	0	1	0	AC, GC, SR, SKN
Nordonna	8	8	9	6	2	8	6	8	3	6	6	8	8	1	0	0	0	
Red Cloud	9	9	9	7	2	8	6	8	3	6	6	7	8	0	0	0	0	MS, EL, GC, SR
Red Gold	6	6	7	4	2	7	6	6	3	8	6	8	6	1	0	0	0	CS
Red LaSoda	8	8	9	5	3	8	7	5	3	2	7	7	3	0	2	2	0	EL, CS, SR
Superior	7	7	9	5	6	6	7	7	2	6	6	8	7	0	4	0	0	MS, SR

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSTD=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSID=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).



Table 5a. Round White Trial. Total and marketable yield, percentage of total yield by size class and specific gravity of potato clones harvested 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>1</sup>			Culls	Specific Gravity <sup>2</sup>
		cwt/A	% At1.	(% of total yield)	1's	2's		
AF1156-14	121	102	56	72.7	12.0	2.2	13.1	1.081
AF1470-6	143	127	69	78.0	11.3	3.4	7.3	1.066
AF1565-12	178	162	89	72.3	19.2	3.0	5.5	1.070
AF1615-1	152	141	77	73.4	19.1	2.7	4.8	1.073
AF1845-7	155	145	80	59.5	34.6	2.5	3.5	1.075
AF1896-2	173	154	84	76.1	13.7	0.9	9.3	1.077
AF1907-6	135	126	69	78.0	15.5	1.8	4.8	1.066
Atlantic	192	183	100	85.2	9.1	1.0	4.8	1.083
B1065-51	173	168	92	86.8	10.0	1.7	1.4	1.071
B1240-1	192	189	104	91.7	7.0	0.8	0.5	1.078
B1415-7	203	201	110	92.9	5.9	0.7	0.6	1.072
B1591-1	204	199	109	84.8	12.8	1.4	1.1	1.088
B1598-4	129	124	68	75.0	21.6	1.3	2.2	1.073
B1625-8	146	144	79	79.6	18.5	1.6	0.4	1.083
B1712-18	157	151	83	83.3	13.4	1.4	1.9	1.074
La Chipper	157	145	80	79.3	13.0	1.3	6.4	1.072
ND2470-27	152	145	80	64.4	31.1	3.3	1.2	1.077
NY123	168	157	86	85.9	7.7	1.7	4.7	1.076
S111-28	143	140	77	74.1	23.6	1.9	0.4	1.082
S14-2	138	131	72	70.0	24.5	2.1	3.4	1.079
S195-6	226	223	122	88.3	10.0	0.3	1.3	1.076
S197-12	141	135	74	94.3	2.0	0.1	3.7	1.084
S28-2	178	176	97	75.0	23.6	1.3	0.1	1.075
S300-7	135	130	71	77.5	18.7	1.6	2.2	1.074
S32-3	180	173	95	72.2	23.8	3.5	0.4	1.075
S33-5	170	167	91	83.0	14.9	1.1	1.0	1.076
Snowden	172	171	93	90.0	9.1	0.8	0.1	1.076
Superior	146	144	79	86.7	11.9	0.8	0.6	1.075
Grand Mean	165	158						
CV (%)	14	13						
LSD (K=100)	32	29						

<sup>1</sup> Size classes: 1 > 1 7/8"; 2 > 1 1/2 to 1 7/8"; 3 ≤ 1 1/2"; Culls = all defective potatoes.

<sup>2</sup> Determined by weight in air/water method.

Table 5b. Round White Trial. Plant vine type, disease and air pollution scores, tuber external and internal attributes, and chip scores of potato clones harvested 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>										Internal Defect				Chip <sup>2</sup>		Color	Comments <sup>3</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC					
AF1156-14	8	9	9	6	4	3	5	1	7	8	7	7	3	6	0	0	1	-	HN=8, MS, SiSc, Pts, SG			
AF1470-6	5	9	9	4	7	7	7	7	7	8	3	4	5	1	0	0	0	-	HN=8, L RZ, GC			
AF1565-12	6	8	8	4	6	7	7	5	3	8	5	7	5	2	0	0	0	-	MS, HN=8, SR			
AF1615-1	8	9	9	6	8	7	5	3	2	8	5	7	4	0	0	0	0	-	MS			
AF1845-7	6	9	8	5	6	6	6	5	4	8	5	5	5	1	0	0	0	-	HN=8, RZ			
AF1896-2	6	8	8	5	6	6	5	7	3	8	5	8	5	4	2	0	0	2.5	HN=7, MS, SiSc, GC			
AF1907-6	7	9	9	4	8	8	6	6	2	6	5	7	5	6	0	1	0	3.5	HN=7, RZ			
Atlantic	8	9	9	5	6	5	6	5	2	7	7	7	7	8	0	0	0	4.5	HN=6, EB, MS, RZ, SR, SiSc			
B1065-51	6	9	9	5	5	5	5	9	3	7	7	8	8	0	0	0	0	3.5	GC, RZ			
B1240-1	8	9	9	7	6	6	5	4	2	8	6	7	5	1	0	0	0	3.0	HN=8, RZ, GC			
B1415-7	9	9	9	7	6	5	7	3	2	8	8	8	7	0	0	0	0	2.0	SiSc, SKN			
B1591-1	6	9	8	5	6	5	5	7	3	7	3	7	7	0	0	0	0	-	GC, RZ, MS			
B1598-4	6	8	9	4	8	6	6	7	3	7	3	7	5	0	0	0	0	-	MS, RZ			
B1625-8	8	9	9	5	6	6	5	7	2	8	5	8	6	0	0	0	0	-	MS			
B1712-18	7	9	9	5	6	7	6	7	3	8	5	7	5	0	0	0	0	-	MS			
La Chipper	8	9	9	5	8	7	6	5	3	4	7	7	3	1	0	0	0	-	HN=8, MS, SiSc, RZ			
ND2470-27	6	9	8	5	6	7	6	7	2	8	3	7	6	0	0	0	0	3.0	PLRV			
NY123	9	8	9	5	8	8	5	5	3	7	5	7	4	0	0	0	1	3.5	RZ, GC, MS, DAE			
S111-28	8	7	9	5	5	5	6	5	2	6	5	8	4	0	0	0	0	2.0	RZ, SR			
S14-2	7	9	9	5	6	5	7	7	2	8	4	7	6	1	0	0	0	2.0	HN=8, RZ, MS			
S195-6	9	9	9	6	6	5	5	4	2	8	5	8	5	0	0	0	0	4.0	EB, RZ, SG, GC			
S197-12	9	9	9	5	6	5	5	6	3	8	6	7	6	0	0	0	0	3.5	RZ			
S28-2	6	9	9	5	7	6	5	7	3	8	5	8	7	0	0	0	0	-	YF, GC			
S300-7	6	9	8	5	8	6	5	7	2	8	5	7	5	1	0	0	0	-	HN=8, RZ			
S32-3	7	9	8	5	6	6	7	6	3	7	5	8	5	1	0	0	0	-	HN=7, RZ, SiSc			
S33-5	5	8	9	4	6	6	7	7	2	6	5	7	7	1	0	0	0	-	HN=8, FS, SR			
Snowden	9	9	8	6	6	5	7	5	2	5	6	8	7	2	0	0	0	2.0	HN=7, RZ, SiSc, DAE			
Superior	6	9	9	5	6	6	5	7	3	6	5	8	7	4	0	0	0	3.5	HN=8			

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSID=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).

Table 6a. NE-184 Trial. Total and marketable yield, percentage of total yield by size class and specific gravity of potato clones harvested 112 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>1</sup> (% of total yield)				Culls	Specific Gravity <sup>2</sup>
		cwt/A	% At1.	1's	2's	3's			
AF1437-1	113	101	65	56.3	32.9	10.1	0.6	1.061	
AF1615-1	128	124	80	67.5	28.7	2.7	1.0	1.072	
Atlantic	158	154	100	84.3	13.4	1.4	0.9	1.078	
B0766-3	140	134	87	80.6	15.1	2.2	2.1	1.076	
B1440-18	128	123	80	79.7	16.6	1.5	2.2	1.068	
B1450-10	144	118	76	46.3	35.5	13.9	4.3	1.080	
Itasca	142	137	88	78.0	17.8	3.3	0.9	1.074	
Katahdin	148	139	91	79.1	15.2	3.0	2.7	1.065	
Kennebec	161	150	96	88.2	5.6	0.8	5.4	1.074	
Keuka Gold (NY101)	169	163	105	81.1	14.9	3.6	0.3	1.067	
Eva (NY103)	144	137	88	86.1	9.7	2.4	1.8	1.067	
NY112	172	168	108	81.1	16.2	2.4	0.2	1.075	
NY115	77	66	43	38.5	46.6	14.9	0.0	1.071	
Snowden	163	154	100	74.2	20.6	3.8	1.4	1.078	
Superior	144	140	91	81.3	15.7	1.0	2.0	1.072	
Yukon Gold	125	118	76	76.9	17.9	2.1	3.1	1.074	
Grand Mean	141	133							
CV (%)	17	17							
LSD (K=100)	37	33							

<sup>1</sup> Size classes: 1 > 1 7/8"; 2 > 1 1/2 to 1 7/8"; 3 ≤ 1 1/2"; Culls = all defective potatoes.

<sup>2</sup> Determined by weight in air/water method.

Table 6b. NE-184 Trial. Plant vine type, disease and air pollution scores, tuber external and internal attributes, and chip scores of potato clones harvested 112 days after planting at the NCSU VGJREC/NODA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>								Internal Defects				Color	Comments <sup>3</sup>	
	TYPEDIS	POLLMAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC	(no./40 tubers)			Chip <sup>2</sup>
AF1437-1	6	9	9	5	6	6	5	7	2	7	3	8	6	0	0	0	0	4.5	GC, MS
AF1615-1	8	9	9	6	6	6	6	4	4	6	5	8	3	2	0	0	0	4	HN=8, MS, SR
Atlantic	7	9	9	5	6	5	6	7	2	7	6	8	7	18	0	0	0	4	HN=7, SR, RZ
B0766-3	8	9	9	6	6	6	6	5	2	7	4	8	7	0	0	0	0	3	GC, RZ
BL440-18	7	9	9	5	6	7	6	7	4	6	5	8	6	7	0	0	0	2.5	HN=8, MS, SR
BL450-10	9	9	9	7	6	6	5	5	3	8	3	7	5	0	0	0	0	3.5	MS
Itasca (MNL2567)	8	9	7	5	6	7	5	4	4	7	5	8	6	0	0	0	0	4.5	RZ
Katahdin	8	9	9	5	6	7	5	4	3	7	5	8	6	2	0	0	0	-	HN=7, MS, SiSc, RZ
Kennebec	8	9	9	5	6	7	5	3	5	7	9	8	3	4	0	0	0	-	HN=7, MS
NY101	9	9	9	5	6	5	7	6	2	7	5	8	6	8	0	0	0	3	HN=7, YF
NY103	9	9	9	5	6	5	6	5	3	7	5	8	6	0	0	0	0	3	GC
NY112	8	9	9	6	5	5	5	5	3	8	5	8	6	0	0	0	0	3	MS, GC
NY115	6	9	8	5	6	7	5	5	2	7	5	8	3	0	0	0	0	2	
Snowden	6	9	7	5	6	5	5	7	2	7	5	8	7	5	0	0	0	2.5	HN=7, CS, MS
Superior	6	9	9	4	6	6	6	7	5	5	5	8	6	0	0	0	0	5	HN=8, MS, SiSc
Yukon Gold	8	9	8	5	7	7	6	6	3	8	5	7	6	5	0	0	0	-	HN=7, GC, RZ, FS, MS

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSTD=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PIS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).

Table 7a 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 105 days after planting at the NCSU VGUREC/NDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield cwt/A	% Chieftain	Size Dist. by Class (%)				Specific Gravity <sup>2</sup>
				1's	2's	3's	Gill's	
B0811-4	77	38	22.5	6.7	42.3	50.7	0.3	1.089
B0852-7	151	140	82.8	65.5	26.4	6.7	1.5	1.071
B1145-2	103	80	48.0	28.3	49.1	22.6	0.0	1.080
Cherry Red	122	112	67.1	67.8	23.2	6.4	2.5	1.076
Chieftain	179	167	100.0	70.5	23.2	5.0	1.4	1.063
ND5084-3R	182	174	105.3	86.0	9.4	2.1	2.5	1.070
Nordonna	142	120	72.2	41.4	42.6	15.0	1.0	1.079
Norland, Dk Red	132	106	63.8	52.3	28.0	8.1	11.6	1.083
Red Gold	96	73	43.6	29.5	46.1	24.1	0.3	1.075
Red LaSoda	148	143	84.7	82.7	13.7	2.0	1.6	1.071
Superior	138	130	77.5	77.2	16.6	4.3	2.0	1.076
GRAND MEAN	138	121						
CV (%)	15	17						
LSD (K=100)	28	27						

<sup>1</sup> Size classes: 1 > 1 7/8"; 2 > 1 1/2 to 1 7/8"; 3 ≤ 1 1/2"; Culls = all defective potatoes.

<sup>2</sup> Determined by weight in air/water method.

Table 7b. 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 105 days after planting at the NCSU VGIREC/NDA IRS, Plymouth, Washington Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>									Internal Defects (no./40 tubers)				Comments <sup>3</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC	
B0811-4	7	9	9	5	2	9	8	7	2	8	1	8	7	0	0	0	0	YF
B0852-7	7	9	9	6	1	7	5	7	3	8	5	8	6	0	0	0	0	
B1145-2	5	6	5	5	2	8	6	7	2	8	2	8	7	0	0	0	0	
Cherry Red	8	9	9	6	2	7	6	7	4	8	5	7	7	0	0	0	0	RZ, EL's, RZ, SiSc
Chieftain	8	9	9	6	3	7	5	3	2	5	5	7	5	6	0	0	0	HN=8, RZ, MS
ND5084-3R	9	9	9	6	2	7	7	7	2	8	7	8	7	0	0	0	0	MS, RZ, SKN
Nordonna	9	9	9	5	2	6	7	3	2	8	3	7	7	0	0	0	0	RZ, MS
Norland, Dk Red	6	9	8	5	2	7	7	5	2	6	5	7	6	1	1	0	0	HN=8, MS, RZ, SiSc
Red Gold	6	8	8	5	3	7	7	8	2	8	2	8	7	2	0	0	0	HN=7, MS
Red LaSoda	7	8	9	5	2	7	7	6	3	5	5	7	5	0	0	0	0	
Superior	6	9	9	5	6	6	5	7	3	5	5	8	7	1	0	0	0	HN=7, SS

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSID=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).

Table 8a. NE-184 Russet-Skinned Variety Trial. Total and marketable yield, percentage of total yield by size class and specific gravity of red-skinned potato clones harvested 113 days after planting at the NCSU VGREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield cwt/A	% R Nk <sup>3</sup>	Size Distribution by Class <sup>1</sup> (% of total yield)			Culls	Specific Gravity <sup>2</sup>
				1's	2's	3's		
A81386-1	169	159	139	79.0	15.0	3.5	2.5	1.071
B1409-2	179	174	151	83.1	14.0	1.9	1.0	1.078
B1463-1	123	110	96	55.7	33.6	1.9	8.9	1.073
B9922-11	157	149	125	78.9	15.6	2.0	3.5	1.081
BelRus	157	138	118	63.2	22.6	2.2	12.0	1.072
ND4093-4RUSS	100	82	70	38.4	42.1	12.8	6.7	1.073
Russet Norkotah #3	184	153	135	63.9	15.0	2.7	18.3	1.073
Russet Norkotah #3117	137	124	100	64.9	25.3	3.7	6.1	1.071
Russet Norkotah #8	170	156	140	73.7	17.5	2.0	6.8	1.073
Grand Mean	153	138						
CV (%)	27	31						
LSD (K=100)	71	72						

<sup>1</sup> Size classes: 1 > 1 7/8"; 2 > 1 1/2 to 1 7/8"; 3 ≤ 1 1/2"; Culls = all defective potatoes.

<sup>2</sup> Determined by weight in air/water method.

<sup>3</sup> Based on Russet Norkotah #3117

Table 8b NE-184 Russet-Skinned Potato Variety Trial. Plant vine type, disease and air pollution scores, maturity at ca. 3 weeks prior to harvest, external and internal tuber attributes, 113 days after planting at the NCSU WREC/NCA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>									Internal Defects (no./40 tubers)				Comments <sup>3</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC	
A81386-1	8	9	9	6	4	3	7	3	6	7	6	8	4	0	0	0	0	MS, FS
B1409-2	8	9	9	5	5	4	7	5	7	6	5	8	5	0	0	0	0	MS
B1463-1	7	9	8	4	4	3	7	7	7	7	3	8	7	0	0	0	3	MS
B9922-11	9	9	9	7	4	2	6	5	7	8	5	6	5	9	0	0	0	HN=7, MS, SR
BelRus	8	9	9	5	5	3	6	5	6	8	5	7	4	0	0	0	0	MS
ND4093-4RUSS	8	9	9	5	5	4	7	5	6	8	3	7	4	0	0	0	0	MS, SR
Russet Norkotah #3	8	9	9	8	4	3	7	3	8	6	7	8	4	0	0	0	0	MS
Russet Norkotah #3117	8	9	9	5	4	3	7	6	8	5	7	8	4	0	0	0	0	MS
Russet Norkotah #8	9	9	9	7	5	4	7	5	6	6	7	8	5	0	0	0	1	FS, MS

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSID=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSID=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).



Table 9a. Peanut Station Variety Trial. Total and marketable yield, percentage of total yield by size class and specific gravity of potato clones harvested 109 days after planting at Peanut Belt Research Station, Lewiston, Bertie Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield cwt/A	% At l.	Size Distribution by Class <sup>1</sup>			Culls	Gravity <sup>2</sup>
				(% of total yield 1's	2's	Specific 3's		
AF1565-12	146	135	56	71.3	21.2	2.6	4.9	1.066
Agata	163	156	69	69.6	25.5	1.6	3.2	1.054
Arnova	276	218	93	69.0	10.0	1.3	19.7	1.048
Atlantic	249	238	100	89.0	6.4	0.9	7.5	1.075
B1065-51	208	192	80	85.2	6.5	0.9	7.3	1.061
B1415-7	185	182	78	94.0	4.2	0.2	1.6	1.065
B9922-11	175	161	68	83.0	8.9	1.0	7.0	1.067
Cherry Red	164	156	67	84.6	10.7	0.9	3.9	1.068
Estima	190	167	71	74.8	11.0	1.2	12.9	1.064
Fabula	228	206	90	81.7	5.6	0.8	12.0	1.047
La Chipper	198	189	80	87.2	8.1	0.5	4.2	1.067
Maranca	263	209	89	65.3	14.3	1.9	18.5	1.049
MSA091-1	208	190	81	80.5	10.8	0.9	7.8	1.070
MSB073-2	204	198	84	79.6	17.0	2.2	1.1	1.071
MSB106-7	241	226	96	88.5	4.8	1.0	0	1.060
MSE048-2Y	246	237	101	87.7	8.6	1.4	2.3	1.067
MSE149-5Y	208	196	83	85.7	8.9	1.2	4.3	1.062
MSG050-2	224	218	92	89.1	8.0	0.6	2.2	1.064
MSNT-1	153	149	64	77.3	19.9	1.8	1.1	1.072
NY120	242	232	99	92.7	3.1	0.7	3.5	1.067
NY123	199	187	80	85.0	9.5	1.1	4.5	1.071
Penta	221	208	87	78.5	15.4	2.6	3.5	1.061
Provento	223	196	82	65.2	22.1	3.6	9.2	1.059
R17-106	241	227	94	77.2	15.4	2.2	5.2	1.064
R17-7	254	245	104	83.9	12.3	1.1	2.7	1.062
Snowden	259	256	110	91.7	7.1	0.7	0.5	1.065
Superior	212	207	76	91.9	5.7	0.2	2.1	1.066
Grand Mean	215	201						
CV (%)	16	19						
D-W LSD (K=1.00)	52	63						

<sup>1</sup> Size classes: 1 > 1 7/8"; 2 > 1 1/2 to 1 7/8"; 3 ≤ 1 1/2"; Culls = all defective potatoes.

<sup>2</sup> Determined by weight in air/water method.

internal tuber attributes, and chip scores of potato clones harvested 107 days after planting at the PERS, Lewiston, Bertie Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>									Internal Defects (no./40 tubers)				Chip <sup>2</sup>	
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC	Color	Comments <sup>3</sup>
AF1565-12	5	8	9	4	6	6	7	6	2	7	5	8	7	0	0	0	0	3.5	SS
Agata	8	8	9	4	7	6	6	6	3	8	5	8	7	0	0	0	0	-	SS, SG, YF
Arnova	7	9	9	6	6	6	5	5	4	8	6	8	4	0	0	0	0	-	L MS, SG, YF
Atlantic	8	8	9	5	6	5	6	4	2	8	7	8	6	0	0	0	0	4.0	EB, GC, RZ, SR, SS
B1065-51	8	9	9	5	6	5	5	4	3	8	7	8	6	0	0	0	0	5.0	VW, SS, GC, MS
B1415-7	8	9	9	6	6	5	7	4	3	8	8	8	6	0	0	0	0	4.5	SS
B9922-11	8	9	9	6	4	2	5	4	6	8	3	8	4	0	0	0	0	-	L MS, GC, SS
Cherry Red	8	9	9	5	2	6	5	7	3	7	5	8	5	0	0	0	0	-	MS, GC, SS, EL
Estima	7	9	9	5	9	6	5	5	4	8	6	6	6	0	0	0	0	-	L CS, MS, GC, YF
Fabula	8	9	9	6	9	6	6	5	3	7	7	8	7	0	0	0	0	-	VW, L SG, MS
La Chipper	7	9	9	5	6	6	6	4	2	7	5	7	5	0	0	0	0	-	MS, SS
Maranca	9	9	9	6	6	6	5	5	4	8	6	8	7	0	0	0	0	-	L SG, YF, MS, SS
MSA091-1	9	9	9	6	6	6	6	5	3	7	6	8	5	0	0	0	0	4.0	L PTS
MSB073-2	6	8	9	6	6	5	7	7	2	7	5	8	7	0	0	0	0	3.5	
MSB106-7	6	8	9	5	6	6	5	4	5	8	7	8	6	1	0	0	0	5.0	SG, SS
MSE048-2Y	9	9	9	7	7	6	7	4	2	7	6	8	7	0	0	0	0	-	MS, SS, YF
MSE149-5Y	7	8	9	5	6	6	7	7	2	8	6	8	8	0	0	0	0	-	HI, MS, YF
MSG050-2	7	6	9	5	6	5	3	5	2	8	5	8	3	0	0	0	0	5.0	VW, MS, Flat
MSNT-1	7	8	9	5	6	5	7	7	1	7	3	8	5	0	0	0	0	4.0	MS, SS
NY120	9	9	9	7	6	5	5	6	3	7	8	8	6	0	0	0	0	3.0	MS, SS
NY123	8	9	9	6	6	6	5	5	7	6	7	8	6	0	0	0	1	4.0	GC, DAE, PTS
Penta	9	9	9	6	7	5	5	7	2	8	4	8	-	0	0	0	0	-	SG, SS, DAE
Provento	8	9	9	6	7	6	6	7	4	8	3	8	5	0	0	0	0	-	L MS, L SG, YF
R17-106	7	8	9	5	6	5	6	7	3	8	7	8	7	0	0	0	0	3.5	SS, SG
R17-7	6	6	9	6	6	5	6	7	2	7	7	8	7	0	0	0	0	3.0	DAE
Snowden	9	9	8	7	6	5	6	6	2	6	6	8	7	0	0	0	0	3.5	
Superior	7	9	9	5	6	5	5	7	3	6	5	8	7	0	0	0	0	3.0	M S

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSTD=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSID=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).

harvested 106 days after planting at the NCSU VGUREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>1</sup> (% of total yield)			Specific Gulls	Gravity <sup>2</sup>
		cwt/A	% Atl.	1's	2's	3's		
AF1455-20	207	195	91	25.6	4.3	1.3	0.6	1.085
AF1846-2	198	178	83	21.5	5.7	1.5	1.6	1.070
AF1935-6	170	155	72	15.3	8.4	2.3	0.0	1.078
AF1937-4	169	159	74	20.1	4.3	1.6	0.0	1.073
AF1938-3	217	210	98	29.0	3.2	0.3	0.8	1.075
AF1949-1	183	175	82	20.3	6.5	0.7	0.5	1.080
AF1950-1	203	196	91	27.0	3.0	0.2	1.0	1.079
AF2004-2	116	109	51	9.3	7.3	0.4	0.9	1.082
AF2015-16	186	182	85	25.9	2.0	0.4	0.3	1.074
AF2032-1	141	132	62	13.4	6.8	1.3	0.0	1.083
ARS-W95.6498-1	107	89	41	4.0	9.6	2.8	0.0	1.075
ARS-W95.6498-5	198	188	88	22.4	6.4	1.6	0.0	1.073
ARS-W95.6500-3	171	157	73	15.1	9.0	2.1	0.0	1.086
ARS-W95.6527-1	232	230	107	30.6	4.6	0.4	0.0	1.080
ARS-W95.6543-2	165	161	75	18.4	6.2	0.5	0.2	1.075
ARS-W95.6543-3	187	185	86	21.5	6.8	0.4	0.0	1.084
ARS-W95.6553-1	175	165	77	15.8	9.5	1.5	0.0	1.077
ARS-W95.6557-3	216	210	98	25.7	6.5	0.9	0.0	1.069
ARS-W95.6563-1	150	140	65	14.9	6.5	1.6	0.0	1.078
SC8801-2	252	245	114	33.7	3.8	0.5	0.6	1.079
Atlantic	223	215	100	57.2	4.3	0.6	0.7	1.074
B1102-3	120	86	40	6.0	7.1	5.2	0.0	1.074
B1316-5	234	229	107	31.4	3.7	0.8	0.0	1.086
B1322-13	136	129	60	10.7	9.1	1.1	0.0	1.074
B1322-19	164	153	71	18.5	4.9	1.7	0.0	1.077
B1327-6	178	174	81	23.0	3.7	0.6	0.0	1.067
B1337-13	77	70	33	3.4	7.4	1.1	0.0	1.081
B1339-2	130	115	54	9.9	7.7	2.3	0.0	1.090

<sup>1</sup> Size classes: 1 > 1 7/8"; 2 > 1 1/2 to 1 7/8"; 3 ≤ 1 1/2"; Culls = all defective potatoes.

<sup>2</sup> Determined by weight in air/water method.

Table 10b. UNR Trial. Plant vine type, disease and air pollution scores and tuber external and internal attributes of potato clones. harvested 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>									Internal Defects (no./40 tubers)				Comments <sup>2</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC	
AF1455-20	9	9	9	6	6	6	4	7	2	7	5	7	5	0	0	0	0	MS
AF1846-2	6	9	9	4	6	7	5	5	4	7	5	7	6	0	0	0	0	SG
AF1935-6	9	9	9	5	6	7	5	5	4	6	5	7	6	0	0	0	0	
AF1937-4	9	9	8	5	6	6	6	5	3	8	5	7	5	0	0	0	0	SKN
AF1938-3	6	9	9	5	6	6	6	7	2	8	6	8	7	0	0	0	0	SS
AF1949-1	6	9	8	5	5	5	7	5	2	6	3	7	5	0	0	0	0	SG, MS
AF1950-1	9	9	9	6	6	7	6	5	3	7	5	7	5	0	0	0	0	MS, GC
AF2004-2	6	9	9	5	6	7	5	5	7	9	6	7	7	0	0	0	0	MS
AF2015-16	6	9	9	5	6	6	5	7	4	8	7	7	7	2	0	0	0	HN=8, MS
AF2032-1	6	9	9	4	7	8	3	5	4	8	3	7	4	0	0	0	0	ftt
ARS-W95.6498-1	9	8	9	5	6	6	7	6	2	6	2	7	5	10	0	0	0	HN=5, DAE, DBE
ARS-W95.6498-5	9	9	9	5	6	5	7	6	2	6	3	7	6	2	0	0	0	HN=8
ARS-W95.6500-3	9	9	9	5	6	5	7	5	2	7	3	7	5	0	0	0	0	
ARS-W95.6527-1	9	8	9	5	6	6	5	7	2	6	5	8	6	0	0	0	0	DAE
ARS-W95.6543-2	6	8	9	4	6	7	6	7	2	7	3	7	6	0	0	0	0	RZ, EB
ARS-W95.6543-3	6	9	9	5	6	6	6	7	2	8	3	7	7	0	0	0	0	
ARS-W95.6553-1	6	9	9	4	6	5	7	5	2	8	5	7	6	0	0	0	0	
ARS-W95.6557-3	6	9	8	4	6	6	6	5	3	6	6	7	5	0	0	0	0	
ARS-W95.6563-1	6	9	8	4	6	7	6	7	2	8	4	8	7	0	0	0	0	some brows
SC8801-2	9	8	9	4	6	6	7	5	5	6	6	8	6	0	0	0	0	SR
Atlantic	6	9	9	5	6	5	5	6	2	7	6	8	5	0	0	0	0	RZ
B1102-3	5	8	9	4	2	7	7	7	2	7	3	8	5	0	0	0	0	
B1316-5	9	5	9	5	8	7	5	7	4	7	7	8	6	0	0	0	0	
B1322-13	6	9	8	4	6	6	5	5	4	8	4	8	4	0	0	0	0	
B1322-19	6	6	9	5	6	6	5	6	2	7	5	8	6	0	0	0	0	
B1327-6	9	9	9	6	6	5	6	6	2	8	6	7	6	0	0	0	0	
B1337-13	6	9	9	5	8	7	7	7	2	8	3	8	7	1	0	0	0	
B1339-2	6	9	9	5	6	6	7	7	2	8	3	8	7	0	0	0	0	

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSID=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).

Table 10a (cont'd). UNR Trial. Total and marketable yield, percentage of total yield by size class and specific gravity of potato clones harvested 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>1</sup> (% of total yield)			Specific Culls	Gravity <sup>2</sup>
		cwt/A	% Atl.	1's	2's	3's		
B1497-22	189	187	87	25.1	3.6	0.3	0.0	1.077
B1497-33	130	119	56	12.4	5.9	0.8	0.8	1.074
B1521-2	98	91	42	4.8	9.1	1.1	0.0	1.074
B1523-4	162	147	69	15.0	7.5	2.3	0.0	1.070
B1526-1	101	88	41	7.9	5.6	1.9	0.2	1.071
B1624-22	176	168	78	18.1	7.6	0.8	0.5	1.071
B1649-8	89	79	37	6.8	5.3	1.6	0.0	1.077
B1709-6	160	154	72	18.6	5.0	1.0	0.0	1.073
B1711-8	138	133	62	16.6	3.8	0.3	0.6	1.070
B1714-2	150	147	69	20.1	2.4	0.1	0.3	1.074
B1722-5	223	220	102	32.3	1.4	0.2	0.4	1.068
B1749-15	180	175	81	25.5	1.3	0.1	0.8	1.070
B1752-5	159	145	67	18.5	3.7	1.5	0.7	1.076
B1758-3	205	195	91	24.7	5.2	1.3	0.2	1.068
B1758-4	211	198	92	24.3	6.1	1.6	0.4	1.070
B1763-4	148	140	65	13.4	8.1	1.3	0.0	1.071
B1870-17	234	224	104	31.1	3.2	1.1	0.6	1.064
B1873-4	244	228	106	26.9	8.0	1.8	0.6	1.073
B1873-6	140	124	58	13.4	5.6	2.1	0.4	1.079
B1874-1	148	145	67	18.4	3.7	0.6	0.0	1.069
B1876-10	128	128	59	16.8	2.7	0.1	0.0	1.063
B1880-4	143	138	64	15.8	5.3	0.4	0.4	1.074
B1884-9	166	158	73	22.2	1.9	0.4	0.9	1.075
B1899-8	158	150	70	18.0	5.0	0.7	0.5	1.062
B1899-9	204	199	93	26.8	3.6	0.0	0.9	1.070
BARS-W95-498-5	109	100	47	9.8	5.5	1.4	0.0	1.062
BARS-W95-502-1	90	80	37	8.1	4.2	1.5	0.0	1.078
BD113-3	20	0	0			3.1		1.084

<sup>1</sup> Size classes: 1 > 1 7/8"; 2 > 1 1/2 to 1 7/8"; 3 ≤ 1 1/2"; Culls = all defective potatoes.

<sup>2</sup> Determined by weight in air/water method.

Table 10b (cont'd). UNR Trial. Plant vine type, disease and air pollution scores and tuber external and internal attributes of potato clones harvested 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>								Internal Defects (no./40 tubers)				Comments <sup>2</sup>	
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHF	EYE	SIZE	DIS	APP	HN	HH	VR		BC
B1497-22	6	8	8	4	6	7	7	7	4	6	6	8	8	0	0	0	0	YF,
B1497-33	6	6	9	4	6	6	6	7	2	7	4	8	6	1	0	0	0	HN=8, MS, YF
B1521-2	9	9	9	4	2	6	6	6	2	8	4	8	6	0	0	0	1	
B1523-4	6	9	9	4	2	5	5	5	2	7	4	7	4	0	0	0	0	RZ, GC
B1526-1	9	9	8	4	2	6	7	5	2	7	4	7	5	0	0	0	0	MS, YF
B1624-22	6	9	9	5	6	6	5	6	3	7	6	8	7	0	0	0	0	M S
B1649-8	8	9	9	5	5	4	7	5	7	8	5	8	5	1	0	0	0	HN=8
B1709-6	9	8	9	5	6	6	7	7	2	7	5	8	7	0	0	0	0	
B1711-8	9	9	8	5	6	5	6	5	4	8	5	7	5	4	0	0	0	HN=7, MS
B1714-2	6	9	8	5	6	6	5	5	3	8	5	7	4	1	0	0	0	HN=8, MS, L RZ
B1722-5	6	8	9	4	6	6	5	7	3	7	9	8	8	2	0	0	0	HN=8, RZ, GC, DBE?, EB
B1749-15	9	9	9	5	6	6	6	4	3	7	5	7	5	0	0	0	0	GC, MS, DAE, YF
B1752-5	6	9	9	4	7	7	7	7	3	8	5	8	7	0	0	0	0	GC, MS, nice, dark YF!
B1758-3	6	7	9	5	2	6	5	5	4	7	5	7	5	0	0	0	0	some SS
B1758-4	9	9	9	4	2	7	6	6	2	6	5	8	7	0	0	0	0	M S
B1763-4	6	8	8	4	1	6	7	5	2	6	5	8	7	0	0	0	0	
B1870-17	9	9	9	5	6	6	7	7	2	8	6	8	8	0	0	0	0	SS, RZ
B1873-4	9	9	9	5	8	6	7	7	2	8	3	8	7	0	0	0	0	M S
B1873-6	9	9	9	5	6	6	7	7	2	6	3	8	7	0	0	0	0	M S
B1874-1	9	9	9	6	6	5	7	4	2	8	5	7	6	0	0	0	0	
B1876-10	6	9	9	4	8	8	7	7	2	7	5	8	7	0	0	0	0	
B1880-4	8	9	9	5	6	6	5	5	2	7	4	8	6	0	0	0	0	M S
B1884-9	9	8	9	5	6	5	6	6	2	7	5	8	7	0	0	0	0	MS, EB
B1899-8	9	7	9	5	6	8	5	4	8	8	5	7	3	2	0	0	0	HN=8, MS
B1899-9	6	9	9	5	6	7	5	3	7	8	6	7	3	0	0	0	0	SS
BARS-W95-498-5	6	9	9	5	6	6	5	3	2	7	3	7	3	0	0	0	0	EL
BARS-W95-502-1	6	8	6	4	6	7	5	6	2	6	3	7	5	1	1	0	3	
BD113-3	6	9	9	5	7	8	7	7	2	6	1	8	7	0	0	0	0	

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSTID=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD= Vascular Discoloration; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels; Average HN Rating Scores are noted in comments (Rating Scale: 1 = very severe to 9 = absent).

Table 10a (cont'd). UNR Trial. Total and marketable yield, percentage of total yield by size class and specific gravity of potato clones harvested 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class <sup>1</sup> (% of total yield)			Specific 3's	Culls	Gravity <sup>2</sup>
		cwt/A	% Atl.	1's	2's	3's			
Rideau	109	106	49	12.4	3.9	0.6	0.0	1.071	
Saginaw Gold	166	161	75	18.6	6.0	0.3	0.6	1.066	
ND5002-3R	122	116	54	13.0	4.8	0.7	0.3	1.074	
ND5256-7R	89	79	37	4.1	8.0	1.6	0.0	1.067	
ND5775-3	166	150	70	15.8	7.2	1.9	0.7	1.067	
ND5822C-7	127	125	58	15.4	3.7	0.5	0.0	1.074	
Snowden	190	174	81	22.4	4.3	1.4	1.1	1.052	
Superior	171	168	78	22.6	3.2	0.4	0.0	1.076	
L235-4	163	156	73	19.6	4.3	0.5	0.7	1.069	
Q174-2	207	198	92	27.0	3.3	1.1	0.3	1.072	
Q244-6	188	174	81	24.3	2.3	0.6	1.6	1.071	
T113-8	231	215	100	28.0	5.0	1.6	0.9	1.076	
T126-11	253	238	111	34.4	2.0	0.2	2.2	1.084	
T66-64	161	158	74	19.3	4.9	0.5	0.0	1.070	
T67-16	161	156	73	16.6	7.3	0.9	0.0	1.070	
T67-4	108	98	46	12.8	2.3	0.2	1.4	1.074	
T67-9	142	142	66	20.4	1.3	0.1	0.0	1.073	
T70-2	148	136	63	18.3	2.6	0.2	1.7	1.061	
T78-7	201	192	89	19.1	10.3	1.1	0.4	1.071	
T82-2	95	83	39	8.2	4.5	1.6	0.3	1.070	
T82-5	163	146	68	18.9	3.5	1.3	1.3	1.074	
T83-6	132	131	61	17.9	2.3	0.1	0.0	1.075	
T88-19	196	193	90	25.1	4.5	0.1	0.4	1.080	
T88-4	141	135	63	16.3	4.4	0.9	0.0	1.072	
T92-5	152	143	67	18.0	3.9	0.3	1.0	1.073	
T2-2	239	234	109	33.4	2.4	0.5	0.4	1.082	
T3-11	153	149	69	19.5	3.3	0.1	0.6	1.068	
T3-5	239	237	111	35.7	0.7	0.2	0.0	1.074	
T3-9	175	164	77	19.4	5.8	0.9	0.7	1.070	
T4-2	179	168	78	21.2	4.5	1.8	0.0	1.075	
T4-7	189	173	81	22.9	3.6	1.0	1.5	1.059	
Grand Mean	166	157							

<sup>1</sup> Size classes: 1 > 1 7/8"; 2 > 1 1/2 to 1 7/8"; 3 ≤ 1 1/2"; Culls = all defective potatoes.

<sup>2</sup> Determined by weight in air/water method.

Table 10b (cont'd). UNR Trial. Plant vine type, disease and air pollution scores and tuber external and internal attributes of potato clones harvested 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 1999.

CLONE	Plant Data <sup>1</sup>				Tuber Data <sup>1</sup>									Internal Defects (no./40 tubers)				Comments <sup>2</sup>
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HH	VR	BC	
Rideau	5	9	8	4	2	8	6	7	2	7	5	8	7	0	0	0	0	SiSc
Saginaw Gold	6	9	9	5	6	7	5	7	3	8	4	8	6	0	0	0	1	MS, YF
ND5002-3R	6	9	9	5	2	6	6	5	4	8	6	6	6	0	0	0	0	SiSc
ND5256-7R	6	8	7	4	2	7	7	5	2	7	5	7	6	0	0	0	0	SiSc
ND5775-3	6	8	8	4	8	7	6	7	2	8	4	8	7	0	0	0	0	SS
ND5822C-7	6	9	9	5	6	5	6	3	2	6	5	8	5	0	0	0	0	
Snowden	9	8	8	5	6	5	6	7	2	5	5	8	7	0	0	0	0	
Superior	6	9	9	5	6	6	6	7	3	5	5	8	6	0	0	0	0	
L235-4	9	8	9	5	6	6	6	3	3	5	5	6	3	0	0	0	0	MS, SR, RZ, EB
Q174-2	9	9	9	6	6	5	5	4	3	8	6	6	3	0	0	0	0	RZ, MS
Q244-6	9	9	9	6	6	6	5	3	3	7	6	6	3	0	0	0	0	RZ, MS
T113-8	9	7	9	5	8	7	5	5	3	7	5	7	5	0	0	0	1	MS, RZ
T126-11	9	7	9	7	8	7	5	5	3	8	7	7	5	0	0	0	0	M S
T66-64	6	9	8	5	6	6	5	5	3	7	5	8	5	0	0	0	0	
T67-16	9	9	9	5	6	6	7	5	2	7	4	8	6	0	0	0	0	
T67-4	9	8	9	4	6	7	4	4	4	5	6	7	4	0	0	0	0	MS, GC, L SR
T67-9	9	9	9	6	6	6	7	5	2	7	6	8	7	0	0	0	0	
T70-2	8	9	9	5	6	7	5	3	4	6	7	6	3	0	0	0	0	M S
T78-7	6	9	8	5	6	7	7	7	2	9	4	8	7	0	0	0	0	MS, nice
T82-2	9	9	9	5	6	7	5	5	3	7	4	7	5	0	0	0	0	M S
T82-5	9	9	9	5	6	7	5	3	3	7	5	7	3	0	0	0	0	MS, DAE, flat
T83-6	8	9	9	5	6	7	6	6	3	8	6	8	6	0	0	0	0	
T88-19	6	9	9	5	6	6	6	5	4	8	5	7	5	0	0	0	0	MS, RZ
T88-4	6	9	9	5	6	5	5	7	2	6	4	8	7	0	0	0	0	
T92-5	9	9	9	5	6	7	5	3	3	8	4	5	3	0	0	0	0	RZ, SiSc
T2-2	9	9	8	5	6	6	6	7	4	8	6	8	8	0	0	0	0	RZ, YF
T3-11	6	8	7	5	8	8	5	7	4	9	5	8	7	0	0	0	0	RZ, GC, SS
T3-5	9	9	9	6	6	6	5	3	5	6	7	6	3	0	0	0	1	SR
T3-9	9	9	9	5	8	7	6	7	3	8	5	8	7	0	0	0	0	M S
T4-2	6	9	9	5	6	6	7	4	2	8	5	7	6	0	0	0	0	
T4-7	6	9	8	5	6	7	5	7	2	7	5	8	7	0	0	0	0	GC, SS

<sup>1</sup> See NE184 Standard Potato Rating System for key to scores in Appendix.

<sup>2</sup> Chip Color Ratings conducted by Wise Foods Inc. 1 = no defects, exceptionally bright; 2 = excellent, bright; 3 = good, light or golden; 4 = dark defects, marginal; 5 = not acceptable.

<sup>3</sup> Comment codes: BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; EB=early blight; ECB= European corn borer; EL=enlarged lenticels; FS=fusarium wilt; HH=hollow heart; HI= herbicide injury; HN=heat necrosis; GC=growth cracks; HS=heat sprouts; LB=late blight; LHD=leaf hopper damage; PSID=poor stands; MS=mishaped tubers; NN=net necrosis; PE=pink eye; PR=pink rot; PLRV=potato leaf roll virus; PTS=very pointed tubers; PS=powdery scab; PVA, PVX, PVY=potato viruses A, X, Y; RZ=Rhizoctonia; SG=secondary growth; SiSc=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; VD=Vascular Discoloration;