

Table 1a. Bright Variety Trial. Total and marketable yield, percentage of total yield by size class, and specific gravity

of potato clones harvested 106 days after planting at Bright's Farm, Weeksville, Pasquotank Co., NC - 2000.

CLONE	Total Yield cwt/A	Marketable Yield cwt/A	% Atl.	Size Distribution by Class ¹ (% of total yield)			Gravity ²	Specific
				1's + 2's	3's	Culls		
AF1565-12	256	227	93	88	9	3	1.062	
AF875-15	322	270	112	84	14	3	1.073	
Arnova	347	232	95	66	9	25	1.052	
Atlantic (std.)	289	245	100	85	12	3	1.078	
B0178-34	271	250	103	92	7	1	1.080	
B0564-8	292	263	106	90	10	0	1.072	
B0564-9	351	328	136	93	7	0	1.071	
B0766-3	309	281	115	91	8	1	1.077	
CK87-1008	297	187	77	64	9	28	1.051	
Colombo	320	267	109	83	13	4	1.057	
Maranca	343	163	68	44	19	37	1.049	
ND3574-5R	216	153	64	70	25	5	1.052	
ND5084-3R	257	190	79	74	23	3	1.046	
Nordonna	315	268	110	85	13	2	1.056	
Snowden	273	219	90	80	17	3	1.075	
Superior	250	222	91	88	6	6	1.066	
Grand Mean	294	235						
CV (%)	17	20						
LSD (K=100)	114	72						

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

² 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 106 days after planting at Bright's Farm, Weeksville, Pasquotank Co., NC - 2000.

Chip Color ² CLONE	Plant Data ¹				Tuber Data ¹									Internal Defects ⁴ (no./40 tubers)							Wise	Comments ³
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	TRS			
AF1565-12	4	8	9	4	8	7	5	7	3	5	7	7	7	0	-	0	3	0	2.7	4.0	MS,LE,ID,RZ	
AF875-15	6	8	8	5	6	7	5	7	3	8	3	7	5	0	-	0	10	1	2.0	3.0	SR,DAE,DBE,PR,MS,SG,CPB	
Arnova	6	8	9	7	9	7	5	7	6	8	7	7	3	0	-	0	9	0	-	-	SG,SS,SR,YF	
Atlantic (std.)	7	8	9	6	6	5	7	5	2	8	6	7	7	0	-	0	1	1	2.7	3.5	GC,MS,EL,GC,SR	
B0178-34	9	8	9	7	8	7	4	7	3	7	7	7	5	1	8	0	5	0	2.0	3.5	DAE,SS	
B0564-8	6	8	9	5	6	6	7	7	1	8	5	8	8	0	-	0	5	0	2.0	3.0	CPB	
B0564-9	6	7	9	5	6	5	7	7	2	6	7	8	9	0	-	0	0	0	2.7	3.5	MS,SR,EL,EB	
B0766-3	6	8	9	7	6	6	6	6	2	7	6	8	7	0	-	0	0	0	1.7	2.0	DAE,MS,SS	
CK87-1008	5	8	9	5	9	8	5	8	5	8	7	8	3	0	-	0	2	0	-	-	SG,MS,YF	
Colombo	6	8	8	6	9	7	5	7	5	6	6	7	7	0	-	0	3	0	-	-	SG,PTS,MS,SR,YF	
Maranca	9	9	9	8	9	7	5	7	6	8	5	7	6	0	-	0	5	0	-	-	SG,PTS,MS,YF	
ND3574-5R	4	8	8	3	2	7	6	7	4	6	5	7	5	0	-	0	1	0	-	-	SR,SS,RZ,ID,CPB	
ND5084-3R	9	8	9	8	2	7	7	5	2	6	6	7	4	1	6	0	4	0	-	-	STST,MS	
Nordonna	6	8	9	6	2	7	7	7	2	6	5	8	8	0	-	0	6	0	-	-	SS,ID,CPB	
Snowden	8	8	8	7	6	5	7	7	2	5	3	8	7	0	-	0	0	0	2.7	2.0	PTS,MS,SR,ID	
Superior	6	8	9	4	6	6	6	8	8	5	5	8	7	0	-	0	10	0	3.3	4.0	MS,SR,CPB	

¹ See NE184 Standard Potato Rating System for key to scores in Appendix.

² 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.

³ **Comment codes:** AC=air cracks; BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; DSA=deep stolen end; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; GC=growth cracks; HI= herbicide injury; HS=heat sprouts; IL=infected lenticels; LB=late blight; LHD=leaf hopper damage; MS=mishaped tubers; 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; SEB=stem end browning; SG=secondary growth; SIS=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; STST=sticky stolens; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh **Note:** L before code indicates high levels

⁴ 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

Table 2a. Cooper 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 Cooper's Farm, Gum Neck, Tyrell Co., NC - 2000.

CLONE	Total Yield cwt/A	Marketable Yield		Size Dist. by Class ¹ (% of total yield)			Gravity ²	Specific
		cwt/A	% Atl.	1's + 2's	3's	Culls		
AF1437-1	384	365	93	95	3	2	1.049	
AF1475-20	376	349	88	92	6	1	1.070	
AF1565-12	328	300	77	91	6	3	1.059	
AF1569-2	473	430	109	91	7	2	1.057	
AF1615-1	331	284	72	86	11	3	1.055	
AF1856-1	328	314	80	96	3	2	1.066	
AF875-15	483	435	111	90	7	3	1.066	
Atlantic (std.)	446	394	100	89	8	4	1.073	
B0178-34	414	381	97	92	4	4	1.077	
B0564-8	453	415	106	92	8	1	1.069	
B0564-9	428	410	105	96	2	2	1.065	
B0766-3	345	322	81	93	5	2	1.070	
B1240-1	357	340	87	95	3	1	1.064	
B1752-5	342	306	78	90	7	3	1.064	
Snowden	492	434	110	88	11	1	1.069	
Superior	404	385	98	95	3	2	1.069	
Grand Mean	399	367						
CV (%)	10	11						
LSD (K=100)	52	55						

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

² 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 109 days after planting at Cooper's Farm, Gum Neck, Tyrrell Co., NC - 2000.

Chip Color ² CLONE	Plant Data ¹				Tuber Data ¹								Internal Defects ⁴ (no./40 tubers)								Wise	Comments ³
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	TRS			
AF1437-1	6	9	8	5	6	5	5	6	3	6	7	7	7	0	-	0	0	0	4.0	4.5	SG,SR,GC,DSA/DAE	
AF1475-20	6	9	9	8	6	7	3	5	2	6	6	8	5	0	-	0	0	0	3.0	3.0	MS	
AF1565-12	5	8	7	4	6	8	5	7	4	7	5	7	6	3	8	0	0	1	3.3	4.5	SR,ID,MS,	
AF1569-2	6	9	9	5	6	6	7	7	3	8	7	8	7	0	-	0	0	0	2.7	3.5	SR,SS,GC	
AF1615-1	6	9	8	7	6	7	5	5	8	8	5	8	6	0	-	0	0	0	3.3	3.0	Pts,MS,SS	
AF1856-1	6	8	6	6	6	7	6	6	6	6	7	8	7	0	-	0	1	0	2.0	2.0	MS,SR,DAE,SS	
AF875-15	8	8	7	4	6	6	4	5	8	7	5	8	5	0	-	0	1	0	2.0	3.0	SS,MS,DSA,DAE	
Atlantic (std.)	7	9	9	5	6	5	7	6	2	8	5	8	7	3	7	0	1	0	2.3	1.5	MS,SR,SS	
B0178-34	8	8	9	8	6	6	4	5	4	8	7	8	5	0	-	0	0	1	2.0	2.0	SCB,MS,SG	
B0564-8	6	8	8	5	6	5	6	7	2	8	5	8	8	0	-	0	0	0	2.3	3.0	SS,MS,EB	
B0564-9	8	9	8	6	6	5	5	5	3	6	7	8	8	0	-	1	0	0	2.7	2.0	SS,ID,EB	
B0766-3	6	9	9	8	6	5	6	5	3	7	7	8	6	0	-	0	0	1	1.7	1.5	MS,DAE	
B1240-1	6	9	8	7	8	7	6	6	3	7	6	7	6	0	-	0	0	0	2.7	3.5	DSA,GC,RZ	
B1752-5	7	8	7	5	6	8	7	7	2	8	5	7	8	0	-	0	0	0	-	-	SR,GC,ID,SS,ECB,YF	
Snowden	9	9	7	8	6	5	7	7	2	5	4	7	7	0	-	0	0	0	1.7	2.0	DAE,DSA,SR	
Superior	6	8	9	4	6	6	6	7	3	5	5	8	6	0	-	0	0	9	3.7	4.0	ID,MS,SR	

¹ See NE184 Standard Potato Rating System for key to scores in Appendix.

² 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.

³ **Comment codes:** AC=air cracks; BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; DSA=deep stolen end; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; GC=growth cracks; HI= herbicide injury; HS=heat sprouts; IL=infected lenticels; LB=late blight; LHD=leaf hopper damage; MS=mishaped tubers; 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; SEB=stem end browning; SG=secondary growth; SIS=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; STST=sticky stolens; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh **Note:** L before code indicates high levels

⁴ 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

Table 3a. McCotter Variety Trial. Total and marketable yield, percentage of total yield by size class, and specific

gravity of potato clones harvested 103 days after planting at McCotter's Farm, Bayboro, Pamlico Co., NC - 2000.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class ¹ (% of total yield)			Gravity ²	Specific
		cwt/A	% Atl.	1's + 2's	3's	Culls		
AF1437-1	320	272	92	85	5	10	1.050	
AF1565-12	275	216	73	78	13	9	1.060	
AF1569-2	371	297	100	80	11	9	1.061	
AF1615-1	347	271	91	78	11	11	1.060	
AF875-15	257	204	69	79	14	7	1.073	
Atlantic (std.)	355	298	100	84	7	9	1.076	
B0178-34	364	324	109	89	9	2	1.075	
B0564-8	361	332	112	92	6	3	1.067	
B0564-9	339	294	99	87	12	1	1.070	
B0766-3	335	283	96	84	11	5	1.071	
B1752-5	237	202	68	85	11	4	1.064	
B9922-11	242	176	60	72	19	9	1.068	
Cherry Red	289	227	77	78	14	8	1.070	
Nordonna	369	308	104	83	13	4	1.054	
Snowden	272	189	64	69	27	3	1.070	
Superior	312	253	85	81	9	10	1.069	
Grand Mean	315	259						
CV (%)	12	15						
LSD (K=100)	54	53						

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

² 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 103 days after planting at McCotter's Farm, Vandemere, Pamlico Co., NC - 2000.

CLONE	Plant Data ¹				Tuber Data ¹									Internal Defects ⁴ (no./40 tubers)							Chip Color ²
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	TRS	Wise	
AF1437-1	5	7	8	5	8	7	5	7	3	8	5	5	7	0	-	0	0	0	1	5	SR
AF1565-12	5	7	7	3	8	8	5	7	5	5	6	7	4	0	-	0	0	0	1	4	SR,MS,SS
AF1569-2	6	8	9	6	6	6	7	7	3	7	7	7	5	0	-	0	0	0	1	2.5	SCB,GC,SR,SS,MS
AF1615-1	7	8	8	5	8	8	5	7	4	8	6	7	5	0	-	0	0	4	2	4	PTS,MS,SIS
AF875-15	8	7	6	4	6	6	4	7	2	8	5	7	7	0	-	2	0	0	1	2.5	GC,DAE,STST
Atlantic (std.)	8	8	7	5	6	6	7	7	2	8	7	6	6	1	7	1	0	0	1	2	SS,MS,SE,GC
B0178-34	8	8	8	7	8	6	4	3	2	6	6	7	6	0	-	1	0	16	1	1.5	GC
B0564-8	7	8	8	5	6	5	7	7	2	8	7	8	9	0	-	0	0	2	2	4	SR
B0564-9	7	8	8	7	6	5	5	7	2	8	6	8	8	0	-	0	0	0	1.3	4	GC,SR
B0766-3	6	8	8	6	6	6	7	7	2	7	7	7	6	0	-	3	0	2	1	1.5	SR,MS,GC
B1752-5	8	7	7	5	6	8	5	7	3	8	6	7	6	0	-	2	0	7	3	5	SS,GC,YF,ECB
B9922-11	9	8	9	7	4	2	5	7	8	8	3	5	6	0	-	4	0	1	-	-	GC,SR
Cherry Red	8	8	8	5	2	7	5	7	5	6	5	7	6	0	-	2	0	4	-	-	PTS,SIS,MS
Nordonna	8	8	8	5	2	8	7	7	2	5	7	7	8	0	-	0	0	0	-	-	SCB,RZ,DAE,MS,SS
Snowden	9	7	6	7	6	5	7	8	2	6	3	7	7	0	-	0	0	0	1	2.5	GC,SS,MS
Superior	6	8	8	5	6	6	6	7	3	5	6	5	5	0	-	0	0	2	3	4	SR,MS,SS

¹ See NE184 Standard Potato Rating System for key to scores in Appendix.

² 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.

³ **Comment codes:** AC=air cracks; BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; DSA=deep stolen end; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; GC=growth cracks; HI= herbicide injury; HS=heat sprouts; IL=infected lenticels; LB=late blight; LHD=leaf hopper damage; MS=mishaped tubers; 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; SEB=stem end browning; SG=secondary growth; SIS=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; STST=sticky stolens; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh **Note:** L before code indicates high levels

⁴ 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

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 110 days after planting at Tull Hill Farms, Kinston, Lenoir Co., NC - 2000

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class ¹ (% of total yield)			Gravity	Specific
		cwt/A	% Chief.	1s + 2's	3's	Culls		
B1145-2	146	94	60	65	27	8	1.063	
B1521-2	171	114	77	67	30	3	1.058	
B1758-3	156	127	81	81	14	5	1.065	
B1758-4	229	181	119	79	14	8	1.065	
Cherry Red	186	147	90	78	15	6	1.066	
Chieftan (std.)	209	169	100	80	13	7	1.054	
ND3574-5R	194	145	93	74	19	7	1.051	
ND5084-3R	186	139	92	74	21	4	1.040	
Nordonna	217	179	117	82	15	3	1.056	
Redsen	162	119	77	73	24	3	1.062	
Rideau	198	150	96	75	12	13	1.056	
Sup. Red Norland	147	111	76	74	21	5	1.049	
Grand Mean	184	140						
CV (%)	21	26						
LSD (K=100)	65	77						

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

² 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 110 days at Tull Hill Farms, Kinston, Lenoir Co., NC - 2000

CLONE	Plant Data ¹				Tuber Data ¹								Internal Defects ³ (no./40 tubers)					Comments ²	
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR		BC
B1145-2	7	8	8	-	2	8	7	7	2	5	2	6	5	0	-	0	8	0	PTS,SR,STST,MS
B1521-2	9	8	8	-	2	6	7	5	1	6	4	7	6	0	-	0	0	1	MS,STST
B1758-3	8	8	9	-	2	6	7	6	2	7	6	7	7	0	-	0	0	0	GC, MS, PTS
B1758-4	9	8	8	-	2	7	5	7	3	4	7	6	4	0	-	3	0	4	SR,GC,PTS,MS
Cherry Red	9	9	9	-	2	6	7	7	4	5	6	8	-	0	-	0	0	0	PTS,MS
Chieftain (std.)	9	9	9	-	3	7	6	6	3	3	7	7	5	0	-	0	0	0	GC,MS,PTS
ND3574-5R	6	7	7	-	2	7	7	7	3	5	6	7	7	0	-	0	0	0	SR,PTS,STST
ND5084-3R	9	9	9	-	2	8	7	6	2	5	7	7	3	0	-	0	0	0	STST,MS,SG,SIS
Nordonna	8	8	9	-	2	8	7	7	2	6	5	6	8	0	-	0	0	0	SR,SIS,SG,MS,ID
Redsen	7	8	8	-	2	7	7	7	3	8	5	8	7	0	-	0	4	0	STST,SIS,RZ,AC,MS,ID
Rideau	4	8	8	-	3	8	7	7	2	4	5	7	6	0	-	0	0	0	MS,RZ,SG,SIS
Sup. Red Norland	6	6	6	-	2	8	7	7	2	4	5	7	6	0	-	0	0	1	SR,RZ,STST

¹ See NE184 Standard Potato Rating System for key to scores in Appendix.

² Comment codes: AC=air cracks; BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; DSA=deep stolen end; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; GC=growth cracks; HI= herbicide injury; HS=heat sprouts; IL=infected lenticels; LB=late blight; LHD=leaf hopper damage; MS=mishaped tubers; 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; SEB=stem end browning; SG=secondary growth; SIS=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; STST=sticky stolens; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels

³ 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

Table 5a. Round White Trial One. Total and marketable yield, percentage of total yield by size class, and specific gravity of potato

clones harvested 114 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class ¹ (% of total yield)						Specific Gravity ²
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls	
AF1437-1	195	170	123	9	54	32	1	0	4	1.047
AF1569-2	240	200	143	11	44	37	1	0	6	1.062
AF1615-1	154	105	78	17	56	12	0	0	15	1.055
AF1935-6	163	119	88	13	58	15	0	0	15	1.062
AF1938-3	250	212	157	7	41	43	0	0	8	1.064
AF1949-1	228	167	123	6	47	27	0	0	20	1.067
Atlantic (std.)	173	142	100	14	69	13	0	0	5	1.072
B0564-8	197	144	106	16	60	13	0	0	11	1.060
B1339-2	139	81	57	40	53	2	0	0	5	1.081
B1497-22	219	193	143	8	60	28	0	0	4	1.068
B1497-33	159	101	71	27	53	9	0	0	10	1.063
B1598-4	149	112	83	23	68	6	0	0	3	1.060
B1624-22	112	76	53	28	64	3	0	0	5	1.053
B1870-17	202	179	126	8	50	37	1	0	4	1.056
B1873-4	196	105	73	21	49	4	0	0	27	1.049
B1873-6	151	88	66	40	58	0	0	0	2	1.072
B1884-9	193	168	121	12	45	42	0	0	2	1.066
Devina	214	36	26	11	16	0	0	0	73	1.048
Keuka Gold (NY101)	167	138	102	16	64	18	1	0	1	1.066
Eva (NY103)*	215	190	143	6	49	39	0	0	5	1.063
NY112	230	208	158	7	67	23	0	0	3	1.064
NY115	85	71	53	13	51	32	0	0	3	1.066
NY120*	186	147	110	17	67	12	0	0	4	1.067
SC8801-2	179	163	120	5	41	50	0	0	4	1.052
Superior	125	93	70	18	60	14	0	0	7	1.062
T2-2*	197	172	123	7	41	45	0	0	7	1.064
T3-9*	118	72	58	18	65	13	0	0	4	1.067
T4-2*	128	94	73	12	50	23	0	0	14	1.072
Grand Mean	177	134								
CV (%)	16	19								
LSD (K=100)	38	35								

¹ 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.

² Determined by weight in air/water method.

* Plots had less than 28 seed pieces and, yields were adjusted to reflect a 28-hill plot.

Table 5b. Round White Trial One. Plant vine type, disease and air pollution scores, tuber external and internal attributes, and chip scores of potato clones

harvested 114 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

Chip Color ² CLONE	Plant Data ¹				Tuber Data ¹									Internal Defects ⁴ (no./40 tubers)							Wise	Comments ³
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	TRS			
AF1437-1	6	8	7	6	6	6	6	7	2	8	6	7	7	0	-	0	0	0	5	4	SR,MS,GC	
AF1569-2	6	8	8	6	6	5	7	7	2	6	6	7	8	0	-	1	0	0	-	3	RZ,ID,SS,SR	
AF1615-1	7	9	8	7	6	6	6	5	4	7	5	7	3	0	-	0	0	0	-	-	PTS,GC	
AF1935-6	8	9	9	9	8	7	5	3	4	8	5	7	5	3	7	0	0	0	-	-	SG,GC,SR,PTS	
AF1938-3	8	8	9	6	8	7	6	5	3	7	5	7	4	1	7	0	0	0	-	-	EL,GC,SS,MS	
AF1949-1	6	8	8	8	6	6	5	5	3	7	6	7	3	1	5	0	0	0	-	-	SS,MS,SR,DSA,DAE,GC	
Atlantic (std.)	6	8	8	5	5	5	7	7	2	8	7	7	7	21	7	1	0	0	5	2	SS,SR,ECB	
B0564-8	6	7	8	6	6	5	7	7	2	8	7	7	6	0	-	0	0	0	4	4	RZ,SG,ID	
B1339-2	6	8	8	6	6	6	6	6	3	8	5	7	6	0	-	3	0	0	4	2	SR,SS,RZ,ID	
B1497-22	7	8	8	7	6	6	7	7	3	7	6	7	7	0	-	0	0	0	-	-	SR,SS,ECB,YF1	
B1497-33	6	7	8	6	6	6	7	7	3	8	5	7	7	3	8	2	0	0	-	-	SG,SS,SR,YF,EB,ECB	
B1598-4	5	7	6	5	6	6	6	7	3	8	5	7	6	3	7	0	1	0	-	-	SS,SR,MS,PTS	
B1624-22	5	8	6	5	6	5	6	7	3	7	5	7	5	15	8	0	0	0	-	-	SR,ID,MS	
B1870-17	6	8	7	6	6	5	6	7	2	7	7	7	8	2	7	0	0	0	3.5	3	MS,GC	
B1873-4	6	8	8	8	8	7	5	4	3	8	3	7	3	1	8	0	2	0	-	-	SG,SS	
B1873-6	5	8	8	5	6	6	7	7	2	6	3	7	6	0	-	0	0	0	-	-	MS,SS,SR,ECB	
B1884-9	7	8	8	8	6	5	7	7	3	8	7	7	7	1	6	0	0	0	3.5	3	RZ,SR,ID,SS,GC,DSA	
Devina	7	8	9	8	6	6	5	6	3	8	5	7	1	2	7	0	0	0	-	-	SG,YF	
Keuka Gold (NY101)	6	8	8	6	6	6	7	7	2	6	6	7	7	18	7	0	0	0	-	-	MS,SR,YF	
Eva (NY103)	6	8	8	6	6	6	7	7	3	8	7	6	6	2	8	0	0	0	-	2	RZ	
NY112	7	8	8	7	5	5	5	5	3	8	7	7	6	20	6	2	0	0	3.5	3	PTS,RZ,ECB	
NY115	5	8	8	6	9	9	6	7	3	9	6	7	7	1	8	0	0	0	3	2	SS,ECB	
NY120	7	8	8	7	6	5	6	5	3	6	5	7	5	1	5	0	0	0	2.5	2	SR,PTS,ID,MS,ECB	
SC8801-2	9	8	8	7	8	6	6	5	3	6	7	7	5	0	-	0	0	0	-	-	SR,GC,MS,SS	
Superior	5	7	8	6	6	6	7	7	3	5	5	7	6	0	-	0	2	0	4	4	SR,SS,MS,ID	
T2-2	8	8	8	7	6	6	5	6	3	7	5	7	5	0	-	0	0	0	-	-	MS,SR,SG,YF1	
T3-9	6	7	8	7	8	6	5	6	3	8	4	7	5	0	-	1	0	0	-	-	SR,MS,EB	
T4-2	7	8	8	7	6	5	6	5	2	8	5	7	3	0	-	0	0	0	-	-	PTS,MS,SG,GC	

Table 6a. Round White Trial Two. Total and marketable yield, percentage of total yield by size class, and specific gravity of potato

clones harvested 114 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class ¹ (% of total yield)						Specific Gravity ²
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls	
ARS6498-5	179	135	100	23	67	8	0	0	2	1.067
ARS6527-1	101	55	41	43	49	2	0	0	6	1.069
Atlantic (std.)	167	134	100	15	60	21	0	0	5	1.073
B1327-6	135	91	68	21	64	4	0	0	11	1.061
B1425-9	128	66	48	31	44	4	0	0	21	1.076
B1591-1	175	127	94	25	68	4	0	0	3	1.082
B1712-18	113	74	54	23	51	13	0	0	13	1.066
Green Mtn.	185	61	45	16	31	1	0	0	51	1.068
MSA091-1	140	84	62	36	51	8	0	0	5	1.070
MSB106-7	160	73	56	16	44	2	0	0	38	1.056
MSE048-2Y	200	163	120	11	57	24	0	0	8	1.068
MSE149-5Y	156	121	88	18	58	18	0	0	6	1.064
MSF373-8	158	136	103	9	52	31	3	0	5	1.074
MSG274-3	138	25	19	36	19	0	0	0	45	1.073
ND5822C-7	176	123	91	28	60	8	0	0	4	1.070
Pungo	224	155	115	8	40	28	0	0	24	1.067
R. Norkota #3117	143	100	76	27	65	3	0	0	6	1.065
Snowden	174	115	86	31	59	6	0	0	4	1.073
T126-11	170	137	100	12	59	20	0	0	9	1.070
T28-1	126	86	65	17	49	19	0	0	14	1.058
Grand Mean	157	103								
CV (%)	20	28								
LSD (K=100)	49	40								

¹ 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.

² Determined by weight in air/water method.

Table 6b. Round White Trial Two. Plant vine type, disease and air pollution scores, tuber external and internal attributes, and chip scores of potato clones

harvested 114 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Plant Data ¹			Tuber Data ¹										Internal Defects ⁴					TRS		
	TYPEDIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC				
Wise	Comments ³																				
ARS6498-5	7	8	7	5	6	5	7	7	2	7	5	7	5	13	8	0	2	1	-	-	SR,SS,SB
ARS6527-1	5	7	7	5	8	6	5	7	4	6	1	7	3	0	-	0	0	0	-	-	SR,SS,SB,MS,SG
Atlantic (std.)	6	7	8	5	5	5	7	6	2	8	7	7	6	28	6	0	0	0	2	4	SR,SS,RZ,ECB
B1327-6	8	7	8	7	6	5	5	5	4	7	5	4	3	1	8	0	0	0	-	-	SG,RZ,PTS,ID,ECB
B1425-9	7	7	8	5	6	5	7	7	2	7	3	3	3	0	-	0	9	1	-	-	SB,SS,EB,SR,DkYF,ECB
B1591-1	6	8	7	5	6	5	6	7	3	7	5	7	7	0	-	0	1	0	2	3	SR,SG,MS,ID,ECB
B1712-18	6	8	8	5	6	6	6	5	3	8	5	5	5	0	-	0	2	0	-	-	RZ,SCB,ID,SG
Green Mtn.	7	8	8	7	8	7	5	5	4	5	7	1	1	14	7	0	0	0	-	-	RZ,SCB,EB,ECB
MSA091-1	6	7	7	6	6	5	7	7	2	8	5	8	5	21	7	0	1	0	2	2.5	SR,MS,ID,EB,ECB
MSB106-7	6	8	8	5	6	6	6	7	5	7	7	7	3	14	7	0	0	1	-	-	SG,SR,MS
MSE048-2Y	7	8	8	8	6	6	7	6	2	6	5	5	5	22	7	0	0	5	-	-	RZ,IL,RZ,ID,MS,SR,GC
MSE149-5Y	6	8	8	5	6	6	7	6	2	7	5	7	6	0	-	0	0	0	-	-	MS,PTS,YF1
MSF373-8	7	8	8	7	8	6	5	5	3	7	8	7	5	0	-	0	0	0	3	3.5	MS,DAE,GC,ECB
MSG274-3	6	8	8	6	6	6	7	7	4	8	3	7	1	0	-	0	0	0	-	-	MS,ID,SG,IL,PTS,ECB
ND5822C-7	6	7	8	7	6	6	7	5	2	7	3	7	5	24	6	0	0	0	-	-	SR,MS,EB
Pungo	6	7	8	6	6	5	6	6	2	5	6	7	3	13	7	0	3	0	-	-	SG,SR,ECB
R. Norkota #3117	7	8	7	6	4	2	5	5	6	8	3	7	4	0	-	0	1	0	-	-	RZ,MS,ECB
Snowden	6	8	8	6	6	5	7	7	2	7	4	-	7	1	3	0	0	1	2	2	MS,SR,SS,ID,ECB
T126-11	6	8	8	5	8	6	7	7	3	7	5	7	5	8	7	0	0	0	3	2.5	MS,SG,SR,LE,ECB
T28-1	5	7	6	4	6	6	7	7	2	8	5	6	7	0	-	0	2	0	3	3.5	SR RZ SS ID ECB

¹ See NE184 Standard Potato Rating System for key to scores in Appendix.

² 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.

³ **Comment codes:** AC=air cracks; BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; DSA=deep stolen end; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; GC=growth cracks; HI= herbicide injury; HS=heat sprouts; IL=infected lenticels; LB=late blight; LHD=leaf hopper damage; MS=mishaped tubers; 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; SEB=stem end browning; SG=secondary growth; SIS=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; STST=sticky stolens; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh **Note:** L before code indicates high levels

⁴ 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

Table 7a. NE-184 Trial. Total and marketable yield, percentage of total yield by size class, and specific gravity of potato clones

harvested 116 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class ¹ (% of total yield)						Specific Gravity ²
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls	
AF1437-1	189	165	106	12	70	17	0	0	1	1.051
AF1475-20	191	153	92	8	46	33	0	0	12	1.064
AF1615-1	205	143	110	27	67	2	0	0	4	1.055
AF1668-60	145	109	75	17	66	9	0	0	8	1.066
AF1758-7	162	96	65	15	50	8	0	0	26	1.046
AF1763-2	134	85	61	19	52	11	0	0	18	1.052
AF1775-2	210	111	61	3	30	20	0	0	46	1.064
Atlantic (std.)	204	168	100	14	64	17	0	0	5	1.072
B0766-3	174	130	74	6	37	35	0	0	21	1.070
Katahdin	144	114	78	16	64	11	4	0	5	1.061
Kennebec	226	189	117	7	56	28	0	0	9	1.062
Eva (NY103)	161	134	78	6	41	42	1	0	11	1.059
NY112	253	229	137	6	49	41	0	0	3	1.066
NY115	151	107	81	26	63	8	0	0	3	1.064
Snowden	215	162	113	20	62	14	0	0	4	1.071
Superior	174	141	94	13	63	17	0	0	7	1.071
W1242	216	185	118	10	61	25	0	0	4	1.070
W1313	209	163	109	19	67	10	0	0	4	1.077
Yukon Gold	128	97	66	19	60	15	0	0	6	1.067
Grand Mean	184	141								
CV (%)	17	23								
LSD (K=100)	47	47								

¹ 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.

² Determined by weight in air/water method.

Table 7b. NE-184 Trial. Plant vine type, disease and air pollution scores, tuber external and internal attributes, and chip scores of potato clones

harvested 116 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Plant Data ¹				Tuber Data ¹								Internal Defects ⁴ (no./40 tubers)								Wise	Comments ³
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	TRS			
AF1437-1	6	8	8	5	5	5	7	7	3	8	5	7	7	0	0	0	0	0	4	5	MS, RZ	
AF1475-20	6	8	8	5	5	5	7	6	3	7	6	7	6	11	8	0	0	0	2	2.5	ECB,SG,MS,ID,VW	
AF1615-1	6	8	8	6	6	6	5	5	4	7	5	7	5	1	9	0	0	0	3	4	MS,PTS,SR	
AF1668-60	5	8	8	5	6	6	5	5	2	8	5	7	6	0	0	0	1	0	2	2	RZ,SR,SS	
AF1758-7	5	8	8	7	6	6	7	7	2	7	5	7	4	9	8	0	0	0	-	-	ECB, SG	
AF1763-2	6	8	5	6	6	7	5	7	3	7	5	6	5	1	9	0	1	0	4	4.5	ID,SR,SG,RZ,ECB	
AF1775-2	8	8	9	9	6	7	3	3	5	8	6	3	2	14	7	0	0	0	-	-	ECB,SS,RZ,SG,LE	
Atlantic (std.)	6	7	8	6	5	5	7	7	2	7	6	7	7	23	7	0	0	0	3	4	MS,GC,SS,SR,RZ,ECB	
B0766-3	7	8	8	7	6	6	7	5	3	8	7	7	6	0	0	0	0	0	1	2.5	SG,MS,RZ,SS	
Katahdin	5	8	7	6	8	7	6	7	4	8	5	7	7	0	0	0	0	1	-	-	SS,RZ,SR,ID	
Kennebec	6	9	8	8	6	7	5	5	5	7	7	7	3	4	8	0	0	0	-	-	SG,MS	
Eva (NY103)	6	8	8	6	6	6	5	7	3	8	7	7	7	0	0	0	1	0	2	3.5	RZ,SS,SR	
NY112	8	8	8	6	5	5	7	5	4	8	7	7	7	9	8	0	0	0	4	4	RZ,SS	
NY115	6	8	8	5	6	6	5	6	3	7	5	7	5	0	0	0	1	0	3	2	SS,MS,SR	
Snowden	6	8	7	6	5	5	7	7	2	7	5	7	6	2	9	0	0	0	3	3	SS,MS,SR	
Superior	6	7	8	5	6	6	7	7	3	6	5	6	6	0	0	0	0	1	-	-	ECB,SS,MS,SR	
W1242	6	8	8	6	6	5	6	7	2	7	5	7	6	0	0	0	0	0	2	3	ECB,SS,MS,SR	
W1313	6	8	8	8	6	5	5	6	2	8	4	7	5	6	8	0	0	0	4	2	SS,MS,SR	
Yukon Gold	7	8	6	6	6	7	6	7	3	7	5	5	6	6	7	0	0	0	-	-	SR,MS,YF	

¹ See NE184 Standard Potato Rating System for key to scores in Appendix.

² 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.

³ **Comment codes:** AC=air cracks; BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; DSA=deep stolen end; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; GC=growth cracks; HI= herbicide injury; HS=heat sprouts; IL=infected lenticels; LB=late blight; LHD=leaf hopper damage; MS=mishaped tubers; 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; SEB=stem end browning; SG=secondary growth; SIS=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; STST=sticky stolens; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh **Note:** L before code indicates high levels

⁴ 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

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 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Total Yield cwt/A	Marketable Yield cwt/A	% Chieftan	Size Dist. by Class (%) (% of total yield)						Specific Gravity ²
				1's	2's	3's	4's	5's	Cull's	
B0811-4	58	8	4	86	13	0	0	0	1	1.078
B1491-5	123	51	31	55	32	9	0	0	4	1.068
B1492-12	161	83	47	39	47	4	0	0	10	1.059
B1495-6	127	40	22	68	29	2	0	0	2	1.065
B1521-2	165	83	46	49	48	0	0	0	2	1.064
B1523-4	254	149	84	41	53	5	0	0	1	1.063
Cherry Red	167	99	57	39	58	2	0	0	2	1.073
Chieftan (std.)	245	181	100	23	64	10	0	0	4	1.059
CO86218-2	194	88	47	51	40	4	0	0	5	1.053
ND3574-5R	189	106	59	46	48	0	0	0	6	1.055
ND5084-3R	239	180	102	19	55	21	0	0	6	1.043
Nordonna	169	71	40	35	39	3	0	0	23	1.059
Norland, Dk Red	175	109	61	32	58	4	0	0	6	1.058
GRAND MEAN	174	96								
CV (%)	21	39								
LSD (K=100)	50	54								

¹ 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.

² 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 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Plant Data ¹				Tuber Data ¹									Internal Defects ³ (no./40 tubers)					Comments ²
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VR	BC	
B0811-4	6	5	6	5	2	7	7	7	2	5	2	7	6	0	-	0	1	0	MS,ID,EB,YF
B1491-5	5	8	7	6	2	7	7	6	2	6	3	7	5	6	6	0	0	0	MS,RZ,YF
B1492-12	6	8	8	8	2	6	6	5	2	7	4	7	5	0	-	0	0	0	MS,SS,RZ,SG
B1495-6	6	7	7	5	2	6	5	5	4	8	4	7	5	0	-	0	0	0	SR,RZ,MS,ECB
B1521-2	9	8	8	7	2	6	7	6	2	7	4	7	5	0	-	0	1	0	RZ,STST,MS,ECB
B1523-4	6	8	7	6	2	6	5	5	2	7	5	7	6	0	-	0	1	0	MS,SS,ID,ECB
Cherry Red	6	8	8	6	2	6	6	6	4	6	5	7	6	0	-	0	1	0	RZ,MS,SR,ID
Chieftain (std.)	6	8	8	6	3	6	7	5	3	5	6	8	5	25	7	0	1	0	SR,MS,SG,RZ
CO86218-2	9	8	9	8	2	6	6	6	2	8	5	7	6	11	8	0	0	0	MS,PTS,RZ,SG,DkRed
ND3574-5R	5	7	7	4	2	7	5	7	4	6	3	5	5	0	-	0	4	0	MS,SR,SIS,ID,RZ,ECB
ND5084-3R	9	8	8	7	2	7	7	5	2	6	7	7	5	27	7	0	0	0	MS,RZ,SR,AC,SS,STST
Nordonna	6	7	8	6	2	7	7	7	2	7	6	6	6	0	-	0	0	1	SG,SIS,MS,SS,ID,ECB
Norland, Dk Red	5	7	5	5	2	7	6	6	3	8	5	7	6	0	-	0	3	0	SIS,SR,SG,ID,MS

¹ See NE184 Standard Potato Rating System for key to scores in Appendix.

² Comment codes: AC=air cracks; BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; DSA=deep stolen end; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; GC=growth cracks; HI= herbicide injury; HS=heat sprouts; IL=infected lenticels; LB=late blight; LHD=leaf hopper damage; MS=mishaped tubers; 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; SEB=stem end browning; SG=secondary growth; SIS=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; STST=sticky stolens; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh Note: L before code indicates high levels

³ 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

Table 9a. HZPC Nitrogen Variation Potato Variety 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 - 2000.

CLONE	N-Rate lb/A	Total Yield cwt/A	Marketable Yield		Size Dist. by Class (%) (% of total yield)							Specific Gravity ²
			cwt/A	% Atlantic	1's	2's	3's	4's	5's	Cull's		
Atlantic	0	132	100	100	14	42	34	0	0	11	1.071	
Atlantic	75	166	127	100	12	52	25	0	0	12	1.075	
Atlantic	150	153	110	100	18	52	20	0	0	11	1.071	
B0564-8	0	172	116	115	28	58	8	0	0	6	1.061	
B0564-8	75	172	114	88	26	55	10	0	0	10	1.068	
B0564-8	150	189	121	112	24	56	9	0	0	11	1.065	
Ceasar	0	135	77	79	31	57	0	0	0	12	1.059	
Ceasar	75	146	82	64	33	53	3	0	0	11	1.055	
Ceasar	150	172	113	102	26	54	10	0	0	9	1.055	
Fabula	0	136	108	110	13	57	20	0	0	10	1.052	
Fabula	75	143	113	89	15	58	20	0	0	7	1.045	
Fabula	150	129	99	91	12	54	22	0	0	12	1.045	
Mondial	0	150	40	41	21	25	0	0	0	54	1.053	
Mondial	75	144	30	24	20	20	1	0	0	59	1.049	
Mondial	150	151	37	33	20	22	1	0	0	57	1.045	
Superior	0	141	104	106	17	58	15	0	0	10	1.071	
Superior	75	148	113	88	18	57	18	0	0	6	1.068	
Superior	150	133	104	98	20	64	14	0	0	3	1.068	
GRAND MEAN		151	95									

¹ 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.

² Determined by weight in air/water method.

Table 9b. HZPC Nitrogen Variation 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 106 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	N-Rate lb/A	Plant Data ¹				Tuber Data ¹									Internal Defects ⁴ (no./40 tubers)					Comments ³
		TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VD	BC	
Atlantic	0	5	8	8	4	6	5	6	6	2	7	6	7	7	22	6	2	3	10	ECB, MS, SR
Atlantic	75	6	8	8	5	6	5	6	6	2	7	6	7	7	10	7	6	2	1	ECB, MS, SR, SS
Atlantic	150	5	8	8	5	6	5	6	6	2	7	6	7	7	10	7	1	1	2	ECB, SR, SS, MS, RZ
B0564-8	0	5	8	8	5	6	5	7	7	2	8	5	8	7	0	-	0	11	0	MS, SS, SR, RZ, ECB,SR, ID
B0564-8	75	6	8	8	5	6	5	7	7	2	8	5	8	7	0	-	0	12	0	ECB, SR, RZ, SS
B0564-8	150	6	8	8	6	6	5	7	7	2	8	5	8	7	0	-	0	8	1	SR, ^RZ, SR, SS, ECB
Cesar	0	8	8	9	7	6	6	5	7	5	8	5	7	5	8	8	0	0	2	MS, HS, EB
Cesar	75	7	8	9	7	6	6	5	7	5	8	5	7	5	3	8	1	8	0	PTS, HS, STST, MS
Cesar	150	9	9	9	7	6	6	6	5	5	8	5	7	5	1	8	0	7	0	MS, SS,SR
Fabula	0	9	9	9	7	8	5	7	7	3	7	5	7	6	19	7	0	6	0	SR, MS, HS
Fabula	75	9	8	8	8	8	5	7	7	3	7	5	7	5	10	7	0	0	0	MS, IL, ECB, STST
Fabula	150	7	8	9	8	8	5	7	7	3	7	5	7	4	6	7	0	1	0	ECB,MS, SCB
Mondial	0	8	8	9	7	6	5	5	7	5	8	1	7	1	4	7	0	1	1	SS,ID, ECB
Mondial	75	8	9	9	9	6	5	5	7	5	8	1	7	1	4	8	0	1	0	^HS, SR
Mondial	150	9	9	9	9	6	5	5	7	5	8	1	7	1	3	8	0	3	0	^HS,
Superior	0	4	8	8	4	6	6	6	7	3	6	5	7	7	2	8	0	18	3	SR, MS
Superior	75	5	8	8	4	6	6	6	7	3	6	5	7	7	0	-	0	12	4	SR, ID, MS, SS
Superior	150	5	8	8	4	6	6	6	7	3	6	5	7	7	1	8	1	20	4	MS, SR, SS, RZ

¹ See NE184 Standard Potato Rating System for key to scores in Appendix.

² 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.

³ **Comment codes:** AC=air cracks; BR=bruise; CPB=colorado potato beetle; CS=common scab; DAE=deep apical eyes; DSA=deep stolen end; EB=early blight; ECB= European corn borer; EL= enlarged lenticels; FS=fusarium wilt; GC=growth cracks; HI= herbicide injury; HS=heat sprouts; IL=infected lenticels; LB=late blight; LHD=leaf hopper damage; MS=mishaped tubers; 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; SEB=stem end browning; SG=secondary growth; SIS=silver scurf; SKN=skins; SS=sun scald; SR=soft rot; STST=sticky stolens; VW=Verticillium wilt; WSTD=weak stand; WW=wire worm; YF=yellow flesh **Note:** L before code indicates high levels

⁴ 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

Table 10b. UNR Trial. Plant vine type, disease and air pollution scores and tuber external and internal attributes of potato clones.

harvested 118 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Plant Data ¹				Tuber Data ¹								Internal Defects ³ (no./10 tubers)						Comments ²
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VD	BC	
AF2078-5	5	7	7	4	5	5	6	6	4	8	3	6	5	0	-	0	0	0	RZ, SS
AF2079-7	8	7	8	5	6	6	6	6	2	8	1	7	3	0	-	0	3	0	^RZ, SCB, SR
AF2079-9	8	8	6	5	6	7	7	6	2	7	3	4	3	1	7	0	2	4	RZ, SCB, ^SR, ^IL's, ID
AF2081-3	6	8	8	5	6	5	6	7	3	8	2	7	5	0	-	0	1	0	
AF2082-10	5	8	5	4	6	5	7	7	2	8	3	7	5	0	-	0	1	0	SR
AF2082-12	5	8	9	4	6	6	5	6	3	7	5	7	5	0	-	0	1	0	RZ
AF2082-18	6	8	7	5	6	6	6	5	4	7	7	8	6	3	7	0	0	0	SS, ^SG,ECB
AF2082-7	5	7	6	4	6	6	5	7	2	8	3	7	5	0	-	0	7	0	
AF2086-11	6	8	8	5	6	5	6	5	3	7	5	4	3	1	8	0	0	0	^RZ
AF2147-1	9	8	8	7	5	6	5	3	5	6	5	7	1	1	8	1	0	0	MS, ^PTS, SG
ARSW96-40022-5	6	7	6	5	5	5	5	7	2	8	3	7	6	0	-	0	1	0	STST, ^SR
ARSW96-4661-3	6	8	8	6	6	5	7	7	2	8	5	7	4	9	5	0	0	0	^SS, ^SG
ARSW96-584-1	6	5	8	5	6	5	6	7	3	8	3	7	5	0	-	0	1	0	MS, SR, SS,ECB
Atlantic (std.)	6	8	8	5	6	5	7	7	2	6	7	7	6	18	7	1	0	0	RZ,EB,ECB,SS,DSA
B0718-3	9	9	8	8	6	6	6	3	4	8	7	2	3	0	-	1	0	0	^MS
B1316-5	6	8	8	7	8	7	5	6	4	8	7	7	5	4	7	0	0	0	SS, MS, EL
B1322-19	6	8	8	5	6	6	5	5	2	7	5	8	6	0	-	0	0	0	SS, RZ
B1649-5	5	8	8	5	5	4	7	4	6	8	3	7	4	1	6	0	0	0	MS, SS
B1768-10	6	8	7	6	3	6	7	7	2	7	3	7	5	0	-	0	0	0	SS, MS, DSA,ECB
B1768-20	6	8	6	5	3	6	7	7	2	7	4	7	5	0	-	0	1	0	SIS
B1783-24	5	8	7	4	6	6	6	7	2	8	3	7	4	1	6	0	0	0	GC, RZ, EI, ^SR
B1801-3	6	8	6	5	7	6	6	7	3	8	6	8	7	1	8	0	0	0	MS, SS, YF2
B1801-6	6	8	6	5	7	6	5	6	3	8	6	7	6	1	8	0	1	0	GC, SS, YF3
B1806-8	6	8	7	5	7	6	7	5	2	7	5	7	6	0	-	0	0	0	SR, YF2
B1816-5	6	8	7	5	1	6	5	5	4	7	5	7	6	0	-	0	0	0	SIS, SS, YF3
B1825-5	9	8	8	7	6	5	7	5	2	7	9	8	6	5	7	0	0	3	RZ
B1826-1	6	8	8	7	8	6	4	7	5	8	7	7	5	0	-	0	0	0	RZ, SS, MS
B1829-5	6	8	8	5	8	7	5	7	5	8	5	7	6	0	-	0	0	0	SEB, ILS, SS
B1834-1	6	8	7	5	6	6	5	7	4	7	3	7	5	1	8	0	3	0	SS, RZ
B1856-10	6	8	8	7	5	5	6	4	4	8	5	8	5	6	6	0	0	0	MS
B1871-1	5	8	6	4	6	6	7	7	2	8	3	7	6	0	-	0	1	1	ID
B1872-1	5	8	6	4	5	5	6	7	2	8	3	7	6	0	-	0	4	0	^SR, SS,ECB
B1876-10	5	7	6	4	8	7	7	7	2	8	7	7	7	0	-	0	0	0	SS, SR
B1878-7	6	8	8	6	5	5	7	7	2	7	7	7	7	1	7	0	0	0	GC, MS,SR,ECB

Table 10a. Cont'd. Total and marketable yield, percentage of total yield by size class, and specific gravity of potato clones

harvested 118 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Total Yield cwt/A	Marketable Yield		Size Distribution by Class ¹ (% of total yield)						Specific
		cwt/A	% Atl.	1's	2's	3's	4's	5's	Culls	
B1880-4	223	174	139	13	59	19	0	0	9	1.061
B1902-4	140	64	33	10	19	27	0	0	44	1.060
B1912-7	208	188	97	7	70	20	0	0	3	1.058
B1915-14	145	93	48	27	57	7	0	0	9	1.067
B1924-1	141	113	58	19	48	32	0	0	1	1.071
B1924-6	226	179	92	14	59	19	0	0	7	1.055
B1946-3	122	81	42	22	65	2	0	0	12	1.059
B1947-6	170	138	71	10	53	28	0	0	9	1.061
Devina	432	158	87	19	36	0	0	0	44	1.055
Bydand	227	123	68	46	49	4	0	0	1	1.062
Platina	221	186	103	9	63	21	0	0	7	1.054
ND3196-1R	142	103	57	2	32	40	0	0	26	1.059
Q174-2*	89	59	30	15	57	10	0	0	18	1.075
T10-2*	61	54	28	12	39	49	0	0	0	1.072
T11-2	166	132	113	12	67	12	0	0	8	1.051
T15-1*	93	39	20	55	43	0	0	0	2	1.066
T15-3*	63	24	12	59	38	0	0	0	3	1.062
T35-34	210	144	80	27	63	6	0	0	5	1.069
T35-39	154	102	56	18	58	9	0	0	15	1.077
T37-3	175	101	56	36	56	1	0	0	7	1.073
T143-3	189	153	131	7	38	43	0	0	12	1.061
T67-4	76	48	41	14	51	13	0	0	23	1.067
T78-13*	108	75	39	28	61	9	0	0	3	1.073
T88-19*	193	122	63	20	46	17	0	0	17	1.061
T88-4*	171	130	67	22	64	12	0	0	2	1.070
U106-26	96	54	30	40	56	0	0	0	3	1.063
U107-16	158	108	60	22	58	11	0	0	10	1.064
U109-6	242	169	94	25	64	6	0	0	5	1.062
U125-43	201	172	95	9	51	35	0	0	5	1.058
U125-8	205	156	86	12	55	22	0	0	12	1.065
U128-8	162	107	59	15	48	18	0	0	19	1.068
U22-6	122	38	21	69	31	0	0	0	0	1.069
U47-12	295	254	140	12	65	22	0	0	2	1.064
U47-2*	218	163	84	9	45	30	0	0	16	1.074
U47-21*	209	193	99	5	25	67	0	0	3	1.073

Table 10b. Cont'd. Plant vine type, disease and air pollution scores and tuber external and internal attributes of potato clones.

harvested 118 days after planting at the NCSU VGJREC/NCDA TRS, Plymouth, Washington Co., NC - 2000.

CLONE	Plant Data ¹				Tuber Data ¹									Internal Defects ³ (no./10 tubers)					Comments ²
	TYPE	DIS	POLL	MAT	CLR	TXT	TCX	TSS	SHP	EYE	SIZE	DIS	APP	HN	HNR	HH	VD	BC	
B1880-4	6	8	8	6	6	5	7	5	2	8	5	7	5	0	-	0	0	0	RZ, SS, DSA
B1902-4	6	7	8	6	6	7	7	7	2	8	5	6	3	0	-	0	2	0	^ SR, GC, MS
B1912-7	6	7	8	5	5	5	5	6	5	8	6	8	6	2	7	0	0	0	SS,RZ
B1915-14	5	7	7	5	8	7	7	6	2	7	3	7	3	0	-	0	7	0	RZ, MS,SEB
B1924-1	5	5	6	5	6	7	6	5	2	8	4	7	4	1	7	1	0	1	MS
B1924-6	6	7	7	5	5	5	6	5	3	7	6	7	6	3	8	0	1	0	RZ, MS
B1946-3	6	8	6	5	6	6	6	5	4	7	3	5	4	0	-	0	0	0	^RZ, SR, SS, YF1
B1947-6	6	7	8	5	2	6	7	7	2	5	5	4	4	1	8	0	0	0	^Rz, SS
Devina	9	9	9	9	6	6	5	6	4	8	5	7	3	3	6	0	0	0	^SG, some eye blush, YF1
Bydand	6	9	9	7	8	6	5	7	4	8	4	7	5	6	8	0	0	0	STST, MS, RZ, GC,ID
Platina	6	9	8	8	7	6	7	7	4	6	5	7	5	0	-	0	0	0	MS, RZ, YF2,SS
ND3196-1R	8	5	6	5	3	7	6	6	3	5	7	6	5	0	-	0	0	1	MS, SS, SR, STST,EB
Q174-2	5	8	7	6	6	6	5	5	5	7	5	7	3	0	-	0	0	0	RZ, MS
T10-2	4	5	6	5	6	5	7	5	2	7	3	6	5	5	7	0	0	0	EB
T11-2	8	8	8	6	3	6	7	6	2	8	5	7	6	0	-	0	0	0	RZ, SIS
T15-1	4	8	7	5	2	6	7	7	2	8	2	7	5	0	-	0	1	0	SS, ID
T15-3	5	7	7	4	2	6	7	7	3	7	3	7	6	0	-	0	2	0	SR, SIS,ECB
T35-34	6	8	7	5	5	5	7	7	2	7	3	7	5	0	-	0	0	0	SS, MS, DAE DSA
T35-39	6	8	8	5	8	7	7	7	2	6	3	8	3	0	-	0	0	0	^RZ, DSA, SCB, SR
T37-3	6	8	8	5	8	8	7	7	2	5	3	7	5	0	-	0	0	0	SR, DAE
T143-3	5	8	8	5	8	7	5	6	3	8	7	7	4	0	-	0	0	1	MS, SS, RZ, GC
T67-4	7	8	8	7	8	7	6	7	2	6	3	5	3	0	-	0	0	0	RZ, ^MS (DSA DAE)
T78-13	5	8	8	6	6	6	7	7	2	8	3	7	5	1	6	0	0	0	MS
T88-19	5	8	8	6	6	5	6	5	2	7	5	7	4	0	-	0	0	0	
T88-4	5	8	8	6	6	6	5	7	2	8	5	7	5	1	5	0	0	0	GC, RZ, mDSA, mDAE
U106-26	5	7	6	4	8	7	5	7	2	8	3	7	6	0	-	0	1	0	SR,
U107-16	5	8	7	5	8	7	7	7	2	7	5	7	6	0	-	0	1	0	RZ, SS, SR
U109-6	6	8	8	6	7	6	7	7	2	7	5	7	6	5	8	0	1	0	
U125-43	8	8	8	6	7	6	7	5	2	8	5	7	6	8	7	0	0	0	YF1
U125-8	5	8	8	5	7	6	6	5	3	7	5	7	4	3	7	0	2	0	SG, MS, SIS, YF1
U128-8	9	8	7	7	8	7	7	6	2	7	3	4	4	0	-	0	0	0	^RZ, SCB, SS, STST,ECB
U22-6	6	8	6	5	8	7	7	7	2	8	1	6	5	0	-	0	2	0	SR
U47-12	6	6	8	7	6	6	7	5	2	7	5	7	5	7	8	0	0	0	
U47-2	8	8	8	6	7	7	7	5	4	8	5	7	4	5	7	0	0	0	MS, SR, RZ, SS
U47-21	6	7	8	7	6	6	7	5	3	8	7	7	6	7	6	0	0	0	SS