

CHAPTER 4. WHITE-SKINNED FRESH MARKET POTATO VARIETY TRIAL, 2002

General Comments

A goal of the white-skinned fresh market variety trial is to identify a round white potato that has better quality and production characteristics than LaChipper. Identification of “specialty” potatoes that expand the marketable varieties produced in Florida is also a priority. Established varieties were included to provide a baseline for the numbered clones.

Planting Information

Planting Site	Hastings REC, Yelvington Farm, Hastings, FL
Planting Date	January 29, 2002
Vine Kill Date	May 10, 2002
Harvest Date	May 20, 2002
Season Length	101 days
Fertilizer Program	preplant, 80-11-68 lb/A; sidedress (twice), 60-8-51 lb/A
Irrigation Program	seepage

Experimental Design

Number of Varieties	17 (Standard: LaChipper)
Number of Clones	14
Within Row Spacing	12 in (30.5 cm)
Between Row Spacing	40 in (102 cm)
Replications	4
Plot Size	20 ft (6.1 m)

Production Statistics

Early Vigor Ratings	38 days after planting
Highest Total Yield	Fabula (311 cwt/acre or 34.8 MT/ha) *Atlantic not included
Highest Marketable Yield	Fabula (245 cwt/acre or 27.4 MT/ha) *Atlantic not included
Best Appearance Rating	LaChipper (7.0, good)

Specific Comments

LaChipper (MFX). LaChipper total and marketable tuber yields were 251 and 227 cwt/acre, respectively. Potato tuber skin color was white with a moderately smooth texture. Tuber flesh color was white to cream. Tuber shape was rated as ‘mostly round’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for LaChipper tubers was 1.070.

Adora (HZPC). Adora total and marketable tuber yields were 238 and 200 cwt/acre, respectively. Potato tuber skin color was buff with a smooth texture. Tuber flesh color was cream to light yellow. Tuber shape was rated as ‘mostly oblong’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as plants less than 2 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Adora tubers was 1.061.

Caesar (HZPC). Caesar total and marketable tuber yields were 276 and 236 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth texture. Tuber flesh color was cream to light yellow. Tuber shape was rated as ‘round to oblong’ with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a poor canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Caesar tubers was 1.066.

Divina (HZPC). Caesar total and marketable tuber yields were 272 and 165 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth texture. Tuber flesh color was light yellow. Tuber shape was rated as ‘mostly oblong’ with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as plants less than 2 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Caesar tubers was 1.062.

Eva (Cornell). Eva total and marketable tuber yields were 202 and 163 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted to moderately smooth texture. Tuber flesh color was white. Tuber shape was rated as ‘round to oblong’ to ‘mostly oblong’ with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as plants less than 2 inches. Vine type at full flower was rated as upright with a poor to fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Eva tubers was 1.067.

Fabula (HZPC). Fabula total and marketable tuber yields were 311 and 245 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted to moderately smooth texture. Tuber flesh color was light yellow. Tuber shape was rated as ‘round to oblong’ to ‘mostly oblong’ with an eye depth of shallow. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as plants less than 2 inches. Vine type at full flower was rated as upright with a poor to fair canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Fabula tubers was 1.059. This is Dr. Hutchinson’s favorite eating potato.

Kennebec (MFX). Kennebec total and marketable tuber yields were 182 and 140 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth texture. Tuber flesh color was white. Tuber shape was rated as ‘mostly oblong’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying. Average specific gravity for Kennebec tubers was 1.070.

Keuka Gold (Cornell). Keuka Gold total and marketable tuber yields were 257 and 227 cwt/acre, respectively. Potato tuber skin color was tan with a netted texture. Tuber flesh color was cream. Tuber shape was rated as ‘round’ to ‘mostly round’ with an eye depth of shallow. Overall external tuber appearance was noted as fair to

good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Keuka Gold tubers was 1.068.

Jacqueline Lee (MSU). Jacqueline Lee total and marketable tuber yields were 220 and 140 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth to smooth texture. Tuber flesh color was light yellow. Tuber shape was rated as 'round to oblong' to 'mostly oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Jacqueline Lee tubers was 1.072.

Mondial (HZPC). Mondial total and marketable tuber yields were 215 and 153 cwt/acre, respectively. Potato tuber skin color was buff to white with a moderately smooth texture. Tuber flesh color was cream. Tuber shape was rated as 'round to oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a poor to fair canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Mondial tubers was 1.062.

Patina (HZPC). Platina total and marketable tuber yields were 294 and 217 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth to smooth texture. Tuber flesh color was cream. Tuber shape was rated as 'round to oblong' with an eye depth of shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as leaves in a rosette. Vine type at full flower was rated as upright with a poor to fair canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Platina tubers was 1.060.

Sebago (MFX). Sebago total and marketable tuber yields were 248 and 207 cwt/acre, respectively. Potato tuber skin color was buff to white with a moderately smooth to smooth texture. Tuber flesh color was white. Tuber shape was rated as 'round to oblong' with an eye depth of shallow. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Sebago tubers was 1.065.

Snowden (MFX). Snowden total and marketable tuber yields were 265 and 231 cwt/acre, respectively. Potato tuber skin color was tan with a slightly netted texture. Tuber flesh color was white. Tuber shape was rated as 'mostly round' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Snowden tubers was 1.073.

Superior (MFX). Superior total and marketable tuber yields were 150 and 133 cwt/acre, respectively. Potato tuber skin color was tan with a slightly netted texture. Tuber flesh color was white. Tuber shape was rated as 'mostly round' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a poor canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for Superior tubers was 1.075.

Vivaldi (HZPC). Vivaldi total and marketable tuber yields were 280 and 233 cwt/acre, respectively. Potato tuber skin color was buff with a smooth texture. Tuber flesh color was cream. Tuber shape was rated as 'round to oblong' to 'mostly oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Vivaldi tubers was 1.073.

Yukon Gold (MFX). Yukon Gold total and marketable tuber yields were 238 and 202 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted to moderately smooth texture. Tuber flesh color was light

yellow. Tuber shape was rated as 'round to oblong' with an eye depth of shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a poor to fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Yukon Gold tubers was 1.075.

AF1615-1 (UM). AF1615-1 total and marketable tuber yields were 239 and 208 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was white. Tuber shape was rated as 'mostly round' to 'round to oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a poor canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for AF1615-1 tubers was 1.072.

AF1775-2 (UM). AF1775-2 total and marketable tuber yields were 260 and 242 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth texture. Tuber flesh color was white. Tuber shape was rated as 'round to oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as plants less than 2 inches. Vine type at full flower was rated as upright with a fair canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for AF1775-2 tubers was 1.071.

B1425-9 (USDA). B1425-9 total and marketable tuber yields were 260 and 242 cwt/acre, respectively. Potato tuber skin color was tan to buff with a slightly netted to moderately smooth texture. Tuber flesh color was cream to light yellow. Tuber shape was rated as 'mostly round' with an eye depth of shallow. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a poor canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B1425-9 tubers was 1.077.

B1752-5 (USDA). B1752-5 total and marketable tuber yields were 225 and 179 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth texture. Tuber flesh color was medium to dark yellow. Tuber shape was rated as 'mostly round' to 'round to oblong' with an eye depth of shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a poor to fair canopy. Plant maturity at harvest was rated as yellow and dying. Average specific gravity for B1752-5 tubers was 1.070.

B2001-197 (USDA). B2001-197 total and marketable tuber yields were 160 and 131 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth texture. Tuber flesh color was cream to white. Tuber shape was rated as 'round' to 'mostly round' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a poor canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B2001-197 tubers was 1.062.

B2018-6 (USDA). B2018-6 total and marketable tuber yields were 186 and 152 cwt/acre, respectively. Potato tuber skin color was tan with a slightly netted to moderately smooth texture. Tuber flesh color was cream to light yellow. Tuber shape was rated as 'mostly round' to 'round to oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B2018-6 tubers was 1.061.

B2024-33 (USDA). B2024-33 total and marketable tuber yields were 205 and 173 cwt/acre, respectively. Potato tuber skin color was tan to buff with a netted to slightly netted texture. Tuber flesh color was cream to light yellow. Tuber shape was rated as 'round to oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B2024-33 tubers was 1.076.

CAPC10 (Parkland). CAPC10 total and marketable tuber yields were 183 and 157 cwt/acre, respectively. Potato tuber skin color was tan to buff with a slightly netted texture. Tuber flesh color was white. Tuber shape was rated as 'round to oblong' with an eye depth of shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for CAPC10 tubers was 1.070.

CAPC25 (Parkland). CAPC25 total and marketable tuber yields were 118 and 80 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was white. Tuber shape was rated as 'round to oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading with a good canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for CAPC25 tubers was 1.080.

NY102 (Cornell). NY102 total and marketable tuber yields were 226 and 176 cwt/acre, respectively. Potato tuber skin color was white with a smooth to very smooth texture. Tuber flesh color was white. Tuber shape was rated as 'round to oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying and completely dead. Average specific gravity for NY102 tubers was 1.078.

NY112 (Cornell). NY112 total and marketable tuber yields were 230 and 208 cwt/acre, respectively. Potato tuber skin color was brown with a netted texture. Tuber flesh color was white. Tuber shape was rated as 'mostly round' to 'round to oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a poor canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for NY112 tubers was 1.070.

NY115 (Cornell). NY115 total and marketable tuber yields were 206 and 182 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth to smooth texture. Tuber flesh color was white. Tuber shape was rated as 'mostly round' with an eye depth of shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as decumbent to spreading with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for NY115 tubers was 1.071.

W1355-1 (UW). W1355-1 total and marketable tuber yields were 127 and 99 cwt/acre, respectively. Potato tuber skin color was tan with a netted texture. Tuber flesh color was white. Tuber shape was rated as 'mostly round' to 'round to oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as decumbent to spreading with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for W1355-1 tubers was 1.074.

Table 9. Production statistics for White-Skinned Fresh Market potato selections.

Clone	Total Yield (cwt/A)	Marketable Yield ¹		Size					Size Class		Specific Gravity
		(cwt/A)	% of standard	Distribution by Class (%) ²					Range (%)		
				1	2	3	4	5	2 to 4	3 to 4	
LaChipper	251	227	100	3	52	37	8	0	97	45	1.070
Adora	238	200	88	7	82	11	1	0	93	11	1.061
Atlantic	345	318	140	3	36	49	12	0	97	61	1.076
Caesar	276	236	104	6	81	12	0	0	94	12	1.066
Divina	272	165	73	22	72	5	0	0	78	6	1.062
Eva	202	163	72	12	70	16	2	0	88	17	1.067
Fabula	311	245	108	2	36	47	15	0	98	62	1.059
Kennebec	182	140	62	10	74	15	1	0	90	17	1.070
Keuka Gold	257	227	100	8	67	23	2	0	92	25	1.068
Jacqueline Lee	220	140	62	30	69	1	0	0	70	1	1.072
Mondial	215	153	68	18	71	9	1	1	81	10	1.062
Platina	294	217	96	5	45	42	9	0	95	51	1.060
Sebago	248	207	91	6	49	36	10	0	94	45	1.065
Snowden	265	231	102	11	70	17	2	0	89	18	1.073
Superior	150	133	59	9	77	14	0	0	91	14	1.075
Vivaldi	280	233	103	13	85	2	0	0	87	2	1.073
Yukon Gold	238	202	89	6	51	38	5	0	94	43	1.075
AF1615-1	239	208	92	7	73	20	1	0	93	20	1.072
AF1775-2	260	242	107	3	40	43	14	0	97	58	1.071
B1425-9	217	178	78	13	67	18	3	0	87	20	1.077

Table 9 (cont'd). Production statistics for White-Skinned Fresh Market potato selections.

Clone	Total Yield (cwt/A)	Marketable Yield ¹		Size					Size Class		Specific Gravity
		(cwt/A)	% of standard	Distribution by Class (%) ²					Range (%)		
				1	2	3	4	5	2 to 4	3 to 4	
B1752-5	225	179	79	7	55	35	4	0	93	39	1.070
B1870-3	198	171	75	7	67	23	4	0	93	27	1.060
B2001-197	160	131	58	5	73	21	1	0	95	22	1.062
B2018-6	186	152	67	7	75	16	1	0	93	18	1.061
B2024-33	205	173	76	13	78	7	1	0	87	8	1.076
CAPC10	183	157	69	10	79	11	0	0	90	11	1.070
CAPC25	118	80	35	30	67	3	0	0	70	3	1.080
NY102	226	176	78	8	76	15	0	0	92	15	1.078
NY112	230	208	92	3	45	49	3	0	97	52	1.070
NY115	206	182	80	6	47	41	6	0	94	47	1.071
W1355-1	127	99	44	21	75	4	0	0	79	4	1.074
<i>LSD</i> ³	150	143		15.4	33.1	27.7	12.1	<i>ns</i>	15.4	35	0.012
<i>P Value</i>	<i>0.0001</i>	<i>0.0001</i>		<i>0.0001</i>	<i>0.0001</i>	<i>0.0001</i>	<i>0.0001</i>	<i>0.4805</i>	<i>0.0001</i>	<i>0.0001</i>	<i>0.0001</i>

¹Marketable Yield: size classes 2 to 4

²Size classes: 1 = <1 7/8", 2 = 1 7/8 to 2.5", 3 = 2.5 to 3.25", 4 = 3.25 to 4", 5 = >4"

³Means separated within columns by Tukey's Studentized Range (HSD) Test.

Table 10. Plant growth and tuber characteristics of White-Skinned Fresh Market potato selections.

Clone	Plant Growth Characteristics ¹				Tuber Characteristics ¹					
	% Stand	Early Vigor	Vine Type	Vine Maturity	IFC	SC	ST	TS	ED	APP
LaChipper	99	4.0	6-9	2.0	1.5	8.0	7.0	2.0	6.0	7.0
Adora	86	3.3	5-8	2.3	2.5	7.0	8.0	4.0	6.0	6.0
Atlantic	100	4.0	6-9	4.3	1.0	6.0	5.0	2.5	7.5	5.0
Caesar	95	4.0	4-7	3.8	2.5	7.0	7.0	3.0	7.5	5.0
Divina	98	3.0	6-9	4.3	3.0	7.0	7.0	4.0	7.5	4.5
Eva	65	2.5	7-8	2.8	1.0	7.0	6.5	3.5	7.5	6.0
Fabula	55	2.8	7-8	3.8	3.0	7.0	6.8	3.5	7.0	4.5
Kennebec	90	3.5	5-8	3.0	1.0	7.0	7.0	4.0	6.5	4.5
Keuka Gold	99	4.3	5-8	2.3	2.0	6.0	5.0	1.5	7.0	6.0
Jacqueline Lee	90	3.5	6-9	2.8	3.0	7.0	7.5	3.5	7.5	5.5
Mondial	91	3.5	7-8	3.5	2.0	7.5	7.0	3.0	7.5	5.0
Platina	53	2.3	7-8	4.5	2.0	7.0	7.5	3.0	7.0	5.0
Sebago	94	4.5	5-8	2.5	1.0	7.5	7.5	3.0	7.0	4.5
Snowden	100	4.0	6-9	2.5	1.0	6.0	5.0	2.0	6.0	6.0
Superior	96	4.0	7	1.0	1.0	6.0	5.0	2.0	5.5	6.0
Vivaldi	100	4.0	5-8	2.0	2.0	7.0	8.0	3.5	7.5	6.5
Yukon Gold	99	4.0	7-8	2.0	3.0	7.0	6.5	3.0	7.0	5.5
AF1615-1	100	4.0	4-7	1.3	1.0	7.5	6.5	2.5	7.5	6.0
AF1775-2	79	3.3	8	4.5	1.0	7.0	7.0	3.0	7.5	3.5
B1425-9	100	4.3	7	1.5	2.5	6.8	6.8	2.0	7.0	5.5

Table 10 (cont'd). Plant growth and tuber characteristics of White-Skinned Fresh Market potato selections.

Clone	Plant Growth Characteristics ¹				Tuber Characteristics ¹					
	% Stand	Early Vigor	Vine Type	Vine Maturity	IFC	SC	ST	TS	ED	APP
B1752-5	99	4.0	7-8	3.0	4.3	7.0	7.0	2.5	7.0	6.0
B1870-3	98	4.8	2-5	1.3	1.5	7.0	6.5	2.5	6.5	6.5
B2001-197	95	3.8	4-7	1.5	1.5	7.0	7.0	1.5	7.5	6.0
B2018-6	100	4.0	5-8	2.3	2.5	6.0	6.5	2.5	7.5	6.0
B2024-33	100	4.0	5-8	2.3	2.5	6.5	5.5	3.0	7.5	5.5
CAPC10	99	4.0	5-8	1.5	1.0	6.3	6.0	3.0	7.0	5.0
CAPC25	100	4.5	6	1.0	1.0	7.5	6.5	3.0	6.5	5.5
NY102	95	4.0	5-8	2.5	1.0	8.0	8.5	3.0	6.5	6.0
NY112	95	4.0	4-7	3.8	1.0	5.0	5.0	2.5	7.5	4.5
NY115	89	4.3	2-5	2.3	1.0	7.0	7.5	2.0	7.0	5.5
W1355-1	99	4.0	3-6	3.3	1.0	6.0	5.0	2.5	6.0	5.0

¹See rating system outlined in Tables 1 and 2.

Table 11. External and internal defects of White-Skinned Fresh Market potato selections.

Clone	External Tuber Defects (cwt/A)					% Internal Tuber Defects ²			
	Growth Cracks	Mis-shapen	Sun-burned	Rotten & misc.	Total Culls ¹	HH	BR	CRS	IHN
LaChipper	0	1	4	11	16	0	0	0	0
Adora	6	4	7	7	23	0	0	8	0
Atlantic	1	0	12	3	16	0	0	0	0
Caesar	0	5	3	16	24	0	1	0	0
Divina	0	45	9	6	60	0	0	0	3
Eva	0	1	9	6	17	0	0	0	0
Fabula	5	4	8	43	60	0	0	0	0
Kennebec	2	2	19	3	27	0	0	0	3
Keuka Gold	0	0	2	7	9	0	0	0	0
Jacqueline Lee	0	8	5	6	20	0	0	0	0
Mondial	4	17	1	4	26	0	0	3	0
Platina	8	2	10	47	67	0	3	5	0
Sebago	2	0	10	16	27	0	1	0	0
Snowden	0	0	5	1	6	0	0	0	1
Superior	0	0	0	4	4	0	0	0	0
Vivaldi	0	0	5	5	11	0	0	0	0
Yukon Gold	0	0	11	14	25	0	1	0	3
AF1615-1	0	0	7	10	16	0	0	0	0
AF1775-2	1	1	7	2	11	0	0	0	1
B1425-9	0	0	2	9	12	0	0	0	0

Table 11 (cont'd). External and internal defects of White-Skinned Fresh Market potato selections.

Clone	External Tuber Defects (cwt/A)					% Internal Tuber Defects ²			
	Growth Cracks	Mis-shapen	Sun-burned	Rotten & misc.	Total Culls ¹	HH	BR	CRS	IHN
B1752-5	0	0	14	19	33	0	0	0	0
B1870-3	0	3	5	7	15	0	0	0	0
B2001-197	1	4	13	4	22	0	0	0	0
B2018-6	14	0	1	7	22	0	0	0	0
B2024-33	0	1	3	2	6	0	0	0	0
CAPC10	0	1	4	3	8	0	0	1	0
CAPC25	0	0	1	3	3	0	0	0	0
NY102	0	0	5	29	34	0	0	0	0
NY112	0	0	12	2	15	0	0	1	0
NY115	0	0	5	7	12	0	0	0	0
W1355-1	0	0	1	0	2	0	3	1	5
<i>LSD</i> ³	8	16	20	30	40	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
<i>P Value</i>	<i>0.0001</i>	<i>0.0001</i>	<i>0.0399</i>	<i>0.0001</i>	<i>0.0001</i>	-	<i>0.2721</i>	<i>0.2641</i>	<i>0.1180</i>

¹Total culls include the sum of growth cracks, mishapen, sunburned and rotten/misc.

²Percent tubers: HH, hollow heart; BR, brown rot; CRS, corky ringspot; IHN, internal heat necrosis.

³Means separated within columns by Tukey's Studentized Range (HSD) Test.

