

## CHAPTER 3. EARLY-LINE CHIP POTATO VARIETY TRIAL, 2002

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### *General Comments*

Potato clones in this trial are new to the variety evaluation program. At this stage seed supplies are usually limited. To maintain a replicated trial with a small seed lot, plot length is reduced to eight feet. Chip quality was determined by personnel at Wise Foods, Inc.

### *Planting Information*

Planting Site	Hastings REC, Yelvington Farm, Hastings, FL
Planting Date	January 30, 2002
Harvest Date	May 21, 2002
Season Length	111 days
Fertilizer Program	preplant, 80-11-68 lb/A; sidedress (twice), 60-8-51 lb/A
Irrigation Program	seepage

### *Experimental Design*

Number of Varieties	6 (Standard: Atlantic)
Number of Clones	18
Within Row Spacing	12 in (30.5 cm)
Between Row Spacing	40 in (102 cm)
Replications	4
Plot Size	8 ft (2.4 m)

### *Production Statistics*

Early Vigor Ratings	44 days after planting
Highest Total Yield	Atlantic (496 cwt/acre or 55.6 MT/ha)
Highest Marketable Yield	Atlantic and NYU47-21 (380 cwt/acre or 42.6 MT/ha)
Highest Gravity	AF2363-11 (1.081)

## *Specific Comments*

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**Atlantic (Agway).** Atlantic total and marketable tuber yields were 437 and 380 cwt/acre, respectively. Potato tuber skin color was tan with a slightly netted to netted texture. Tuber flesh color was white to cream. Tuber shape was rated as ‘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 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 Atlantic tubers was 1.078. Chip quality was rated as very good with minimal blemishes.

**Atlantic (MFX).** Atlantic total and marketable tuber yields were 341 and 299 cwt/acre, respectively. Potato tuber skin color was brown to tan with a slightly netted to netted texture. Tuber flesh color was white to cream. 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 to good. Early plant vigor (size) was rated as 4 to 6 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 Atlantic tubers was 1.077. Chip quality was rated as very good with minimal blemishes.

**LaChipper (MFX).** LaChipper total and marketable tuber yields were 343 and 319 cwt/acre, respectively. Potato tuber skin color was white with a moderately smooth to smooth texture. Tuber flesh color was white to cream. 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 good. Early plant vigor (size) was rated as 6 to 8 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. Average specific gravity for LaChipper tubers was 1.070. Chip quality rating was not available.

**Liberator (MSU).** Liberator total and marketable tuber yields were 435 and 375 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted to moderately smooth texture. Tuber flesh color was white to cream. Tuber shape was rated as ‘round to oblong’ to ‘mostly oblong’ with an eye depth of deep to intermediate. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as 6 to 8 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 Liberator tubers was 1.073. Chip quality rating was not available.

**Sebago (MFX).** Sebago total and marketable tuber yields were 370 and 310 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was white to cream. Tuber shape was rated as ‘round to oblong’ to ‘mostly oblong’ with an eye depth of shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 6 to 8 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 1.061. Chip quality rating was not available.

**Snowden (MFX).** Snowden total and marketable tuber yields were 435 and 379 cwt/acre, respectively. Potato tuber skin color was tan with a netted to slightly netted texture. Tuber flesh color was white. Tuber shape was rated as ‘mostly round’ with an eye depth of intermediate. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 6 to 8 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 Snowden tubers was 1.075. Chip quality was rated as very good with minimal blemishes.

**AF2291-10 (UM).** AF2291-10 total and marketable tuber yields were 352 and 392 cwt/acre, respectively. Potato tuber skin color was tan to buff with a slightly netted to moderately smooth texture. Tuber flesh color was white to cream. 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 to good. 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 AF2291-10 tubers was 1.079. Chip quality was rated as very good with minimal blemishes.

**AF2363-11 (UM).** AF2363-11 total and marketable tuber yields were 269 and 238 cwt/acre, respectively. Potato tuber skin color was tan to buff with a slightly netted to moderately smooth texture. Tuber flesh color was white to cream. 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 poor to fair. Early plant vigor (size) was rated as 4 to 6 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 AF2363-11 tubers was 1.081. Chip quality was rated as good with minimal blemishes and color variations.

**AF2366-1 (UM).** AF2366-1 total and marketable tuber yields were 65 and 39 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 ‘oblong’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was not available. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for AF2366-1 tubers was 1.075. Chip quality rating was not available.

**B2133-123 (USDA).** B2133-123 total and marketable tuber yields were 407 and 373 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 poor to fair. Early plant vigor (size) was rated as 6 to 8 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 B2133-123 tubers was 1.066. Chip quality was rated as marginal acceptance with borderline defects and/or color.

**B2133-124 (USDA).** B2133-124 total and marketable tuber yields were 352 and 308 cwt/acre, respectively. Potato tuber skin color was brown to tan with a netted to slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as ‘round to oblong’ to ‘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 6 to 8 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 B2133-124 tubers was 1.074. Chip quality was rated as very good with minimal blemishes.

**B2135-127 (USDA).** B2135-127 total and marketable tuber yields were 403 and 300 cwt/acre, respectively. Potato tuber skin color was brown to tan with a netted to slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as ‘round to 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 6 to 8 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 B2135-127 tubers was 1.071. Chip quality was rated as very good with minimal blemishes.

**B2135-170 (USDA).** B2135-170 total and marketable tuber yields were 405 and 323 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 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 to upright with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for B2135-170 tubers was 1.066. Chip quality was rated as good with minimal blemishes and color variations.

**F373-8 (MSU).** F373-8 total and marketable tuber yields were 360 and 334 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted to moderately smooth texture. Tuber flesh color was white to cream. Tuber shape was rated as ‘round to oblong’ with an eye depth of deep to intermediate. 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 to upright with a good canopy. Plant maturity at harvest was rated as moderately

mature to yellow and dying. Average specific gravity for F373-8 tubers was 1.072. Chip quality was rated as marginal acceptance with borderline defects and/or color.

**H095-4 (MSU).** H095-4 total and marketable tuber yields were 352 and 288 cwt/acre, respectively. Potato tuber skin color was tan with a netted to slightly netted texture. Tuber flesh color was white to cream. 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 poor to fair. Early plant vigor (size) was rated as 6 to 8 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 H095-4 tubers was 1.072. Chip quality was rated as good with minimal blemishes and color variations.

**NYT2-2 (Cornell).** NYT2-2 total and marketable tuber yields were 332 and 273 cwt/acre, respectively. Potato tuber skin color was tan with a netted to slightly netted texture. Tuber flesh color was light yellow. Tuber shape was rated as ‘round to oblong’ to ‘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 8 to 10 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. Average specific gravity for NYT2-2 tubers was 1.073. Chip quality was rated as very good with minimal blemishes.

**NYT35-34 (Cornell).** NYT35-34 total and marketable tuber yields were 240 and 196 cwt/acre, respectively. Potato tuber skin color was tan with a netted to slightly netted texture. Tuber flesh color was cream. Tuber shape was rated as ‘round’ to ‘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 8 to 10 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 NYT35-34 tubers was 1.075. Chip quality was rated as good with minimal blemishes and color variations.

**NYU47-21 (Cornell).** NYU47-21 total and marketable tuber yields were 422 and 380 cwt/acre, respectively. Potato tuber skin color was buff to white with a moderately smooth texture. Tuber flesh color was white to cream. 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 good. Early plant vigor (size) was rated as 8 to 10 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 NYU47-21 tubers was 1.076. Chip quality was rated as very good with minimal blemishes.

**NYV101-1 (Cornell).** NYV101-1 total and marketable tuber yields were 371 and 297 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’ 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 6 to 8 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 NYV101-1 tubers was 1.073. Chip quality was rated as good with minimal blemishes and color variations.

**NYV135-1 (Cornell).** NYV135-1 total and marketable tuber yields were 239 and 213 cwt/acre, respectively. Potato tuber skin color was tan to buff 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 shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 8 to 10 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 NYV135-1 tubers was 1.070. Chip quality was rated as marginal acceptance with borderline defects and/or color.

**NYV18-5 (Cornell).** NYV18-5 total and marketable tuber yields were 94 and 72 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’ to ‘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 8 to 10 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 NYV18-5 tubers was 1.074. Chip quality was rated as very good with minimal blemishes.

**NYV75-9 (Cornell).** NYV75-9 total and marketable tuber yields were 348 and 311 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 'oblong' with an eye depth of shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 6 to 8 inches. Vine type at full flower was rated spreading to upright with a fair canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for NYV75-9 tubers was 1.059. Chip quality was rated as very good with minimal blemishes.

**NYV78-25 (Cornell).** NYV78-25 total and marketable tuber yields were 159 and 142 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was cream. 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 6 to 8 inches. Vine type at full flower was rated spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for NYV78-25 tubers was 1.074. Chip quality was rated as very good with minimal blemishes.

**NYV78-28 (Cornell).** NYV78-28 total and marketable tuber yields were 295 and 274 cwt/acre, respectively. Potato tuber skin color was buff with a netted to slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as 'round to 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 6 to 8 inches. Vine type at full flower was rated spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for NYV78-28 tubers was 1.074. Chip quality was rated as marginal acceptance with borderline defects and/or color.

Table 6. Production statistics for Early-Line Chipping potato selections.

Clone	Total Yield (cwt/A)	Marketable Yield <sup>1</sup>		Size					Size Class		Specific Gravity
		(cwt/A)	% of standard	Distribution by Class (%) <sup>2</sup>					Range (%)		
				1	2	3	4	5	2 to 4	3 to 4	
Atlantic (Agway)	437	380	100	1	32	57	10	0	99	68	1.078
Atlantic (MFX)	341	299	79	4	48	38	11	0	96	48	1.077
LaChipper	343	319	84	4	44	48	4	0	96	51	1.070
Liberator	435	375	99	2	31	54	12	1	97	66	1.073
Sebago	370	310	82	2	32	42	25	0	98	65	1.061
Snowden	435	379	100	4	54	41	2	0	97	44	1.075
AF2291-10	352	292	77	4	44	47	5	0	96	52	1.079
AF2363-11	269	238	63	1	29	59	11	0	99	70	1.081
AF2366-1	65	39	10	38	57	5	0	0	76	18	1.075
B2133-123	407	373	98	3	34	56	6	0	97	62	1.066
B2133-124	352	308	81	6	64	29	1	0	94	30	1.074
B2135-127	403	300	79	3	24	48	23	2	94	70	1.071
B2135-170	405	323	85	1	22	48	27	2	97	75	1.066
F373-8	360	334	88	1	15	55	29	0	99	83	1.072
H095-4	352	288	76	3	29	51	15	2	95	67	1.072
NYT2-2	332	273	72	19	44	35	2	0	85	40	1.073
NYT35-34	240	196	52	16	73	12	0	0	85	13	1.075
NYU47-21	422	380	100	5	55	40	1	0	96	40	1.076
NYV101-1	371	297	78	12	81	7	0	0	89	8	1.073
NYV135-1	239	213	56	7	60	28	5	0	93	32	1.070

Table 6 (cont'd). Production statistics for Early-Line Chipping potato selections.

Clone	Total Yield (cwt/A)	Marketable Yield <sup>1</sup>		Size					Size Class		Specific Gravity
		(cwt/A)	% of standard	Distribution by Class (%) <sup>2</sup>					Range (%)		
				1	2	3	4	5	2 to 4	3 to 4	
NYV18-5	94	72	19	28	42	5	0	0	84	16	1.074
NYV75-9	348	311	82	10	74	16	0	0	91	16	1.059
NYV78-25	159	142	37	5	65	29	2	0	95	48	1.074
NYV78-28	295	274	72	5	65	29	2	0	96	30	1.074
<i>LSD</i> <sup>3</sup>	76	78		24	20	16	10	ns	23	16	0.00
<i>P Value</i>	0.0001	0.0001		0.0185	0.0000	0.0001	0.0001	0.6357	0.0004	0.0001	0.0001

<sup>1</sup>Marketable Yield: size classes 2 to 4

<sup>2</sup>Size 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"

<sup>3</sup>Means separated within columns by Waller-Duncans k - ratio t test.

Table 7. Plant growth and tuber characteristics of Early-Line Chipping potato selections.

Clone	Plant Growth Characteristics <sup>1</sup>				Tuber Characteristics <sup>1</sup>						Chip Rating <sup>2</sup>
	% Stand	Early Vigor	Vine Type	Vine Maturity	IFC	SC	ST	TS	ED	APP	
Atlantic (Agway)	100	5.3	8-5	4.0	1.7	6.0	5.7	2.0	7.3	5.3	2
Atlantic (MFX)	97	5.0	8	3.8	1.3	5.7	5.3	2.3	6.3	6.0	2
LaChipper	97	6.3	6-9	3.0	1.3	8.0	7.3	2.7	5.7	7.0	na
Liberator	100	5.8	6-9	3.8	1.3	7.0	6.7	3.7	4.7	4.7	na
Sebago	88	5.8	8-5	4.0	1.7	7.7	6.7	3.3	7.0	5.3	na
Snowden	100	6.0	9-6	3.3	1.0	6.0	5.7	2.0	5.0	6.0	2
AF2291-10	94	5.0	8-5	3.5	1.3	6.7	6.3	2.3	6.3	6.3	2
AF2363-11	88	4.5	7-8	4.3	1.3	6.3	6.3	2.3	6.3	4.7	3
AF2366-1	100	4.8	na	2.0	1.0	7.7	6.7	5.0	6.0	5.0	na
B2133-123	100	6.3	9-6	3.5	1.0	6.3	6.0	3.0	7.0	4.7	4
B2133-124	94	5.8	6-9	3.5	1.7	5.3	5.3	3.3	6.7	4.7	2
B2135-127	100	6.0	6-9	4.0	1.7	5.7	5.3	3.0	5.7	4.7	2
B2135-170	97	5.3	6-9	4.8	1.0	6.7	6.0	3.0	6.0	5.3	3
F373-8	100	4.8	9-6	3.5	1.3	7.0	6.7	3.0	4.7	5.3	4
H095-4	100	5.5	9-6	3.5	1.7	6.0	5.3	2.7	5.3	4.7	3
NYT2-2	97	6.8	9-6	3.0	3.0	6.0	5.3	3.3	6.7	6.0	2
NYT35-34	97	6.5	5-8	3.0	2.0	6.0	5.3	1.7	6.7	6.0	3
NYU47-21	97	6.5	6-9	4.0	1.7	7.3	7.0	2.3	7.3	7.0	2
NYV101-1	94	6.0	9-6	2.8	1.0	7.0	6.3	3.0	7.3	5.3	3
NYV135-1	97	6.5	5-8	3.0	1.0	6.7	6.7	2.0	7.0	5.7	4

Table 7 (cont'd). Plant growth and tuber characteristics of Early-Line Chipping potato selections.

Clone	Plant Growth Characteristics <sup>1</sup>				Tuber Characteristics <sup>1</sup>							Chip Rating <sup>2</sup>
	% Stand	Early Vigor	Vine Type	Vine Maturity	IFC	SC	ST	TS	ED	APP		
NYV18-5	100	6.8	7-8	2.3	1.0	7.0	7.0	3.7	6.3	4.7	2	
NYV75-9	91	5.8	8-5	3.8	1.0	7.3	7.3	5.0	7.0	5.0	2	
NYV78-25	97	6.0	8-5	2.5	2.0	7.3	6.7	2.7	6.0	5.0	2	
NYV78-28	97	5.5	5-8	2.8	1.3	7.0	5.7	3.0	6.3	4.7	4	

<sup>1</sup>See rating system outlined in Tables 1 and 2.

<sup>2</sup>For descriptions, see general potato variety production information.

Table 8. External and internal defects of Early-Line Chipping potato selections.

Clone	External Tuber Defects (cwt/A)					% Internals Tuber Defects <sup>2</sup>			
	Growth Cracks	Mis-shapen	Sun-burned	Rotten & misc.	Total Culls <sup>1</sup>	HH	BR	CRS	IHN
Atlantic (Agway)	5	0	38	11	54	0	0	3	1
Atlantic (MFX)	13	0	13	3	29	1	0	11	0
LaChipper	0	2	5	2	9	0	0	20	0
Liberator	3	15	26	5	49	1	0	11	0
Sebago	5	0	48	0	53	0	0	13	10
Snowden	2	0	39	2	43	1	0	22	4
AF2291-10	0	5	33	10	48	0	0	9	1
AF2363-11	1	4	22	0	27	0	0	0	1
AF2366-1	0	0	13	1	14	1	0	0	0
B2133-123	0	0	13	8	21	0	0	15	0
B2133-124	0	0	20	3	23	1	0	5	0
B2135-127	25	5	36	19	85	3	0	4	0
B2135-170	0	2	65	4	71	1	0	0	3
F373-8	5	0	15	2	22	0	0	5	0
H095-4	0	0	43	7	50	1	0	4	0
NYT2-2	0	2	3	5	10	0	0	3	0
NYT35-34	0	0	6	3	9	0	0	9	0
NYU47-21	0	4	17	3	24	1	0	5	0
NYV101-1	0	13	23	0	36	0	0	25	0
NYV135-1	0	0	7	3	10	0	0	9	0

Table 8 (cont'd). External and internal defects of Early-Line Chipping potato selections.

Clone	External Tuber Defects (cwt/A)					% Internals Tuber Defects <sup>2</sup>			
	Growth Cracks	Mis-shapen	Sun-burned	Rotten & misc.	Total Culls <sup>1</sup>	HH	BR	CRS	IHN
NYV18-5	0	3	4	2	9	0	0	9	0
NYV75-9	0	1	4	1	6	0	0	13	3
NYV78-25	0	0	1	8	9	0	0	0	0
NYV78-28	0	5	4	0	9	0	0	11	0
<i>LSD</i> <sup>3</sup>	11	8	26	ns	33	ns	ns	ns	ns
<i>P Value</i>	0.0006	0.0011	0.0001	0.3762	0.0001	0.6692	-	0.1228	0.0544

<sup>1</sup>Total culls include the sum of growth cracks, mishaped, sunburned and rotten/misc.

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

<sup>3</sup>Means separated within columns by Waller-Duncans k - ratio t test.

