

# CHAPTER 5. RED AND PURPLE-SKINNED FRESH MARKET POTATO VARIETY TRIAL, 2002

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## *General Comments*

A goal of the red/purple-skinned fresh market variety trial is to identify a red potato that has better quality and production characteristics than Red LaSoda or LaRouge. 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 30, 2002
Vine Kill Date	May 10, 2002
Harvest Date	May 15, 2002
Season Length	100 days
Fertilizer Program	preplant, 80-11-68 lb/A; sidedress (twice), 60-8-51 lb/A
Irrigation Program	seepage

## *Experimental Design*

Number of Varieties	10 (Standard: Red LaSoda and LaRouge)
Number of Clones	16
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	43 days after planting
Highest Total Yield	Pontiac (409 cwt/acre or 45.8 MT/ha)
Highest Marketable Yield	Pontiac (385 cwt/acre or 43.1 MT/ha)
Best Appearance Rating	S48-6 (7.5, good to excellent)

## *Specific Comments*

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**Red LaSoda (MFX).** Red LaSoda total and marketable tuber yields were 373 and 341 cwt/acre, respectively. Potato tuber skin color was pink with a 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 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 yellow and dying. Average specific gravity for Red LaSoda tubers was 1.061.

**All Blue (MFX).** All Blue total and marketable tuber yields were 243 and 106 cwt/acre, respectively. Potato tuber skin color was purple with a slightly netted to moderately smooth texture. Tuber flesh color was purple. Tuber shape was rated as 'oblong' with an eye depth of deep to intermediate. 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 rated as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for All Blue tubers was 1.066.

**Cherry Red (MFX).** Cherry Red total and marketable tuber yields were 203 and 169 cwt/acre, respectively. Potato tuber skin color was red with a moderately smooth 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 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 Cherry Red tubers was 1.077.

**Chieftain (MFX).** Chieftain total and marketable tuber yields were 317 and 305 cwt/acre, respectively. Potato tuber skin color was pink with a moderately smooth texture. Tuber flesh color was white to cream. Tuber shape was rated as 'round to oblong' with an eye depth of 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 upright with a fair canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Chieftain tubers was 1.059.

**LaRouge (MFX).** LaRouge total and marketable tuber yields were 353 and 332 cwt/acre, respectively. Potato tuber skin color was pink 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 deep to 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 LaRouge tubers was 1.061.

**Michigan Purple (MFX).** Michigan Purple total and marketable tuber yields were 350 and 338 cwt/acre, respectively. Potato tuber skin color was purple with a moderately smooth to smooth texture. Tuber flesh color was white. Tuber shape was rated as 'mostly oblong' to 'oblong' with an eye depth of deep to intermediate. 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 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 Michigan Purple tubers was 1.067.

**Pontiac (MFX).** Pontiac total and marketable tuber yields were 409 and 385 cwt/acre, respectively. Potato tuber skin color was pink with a slightly netted to moderately smooth texture. Tuber flesh color was white. Tuber shape was rated as 'mostly round' 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 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 yellow and dying. Average specific gravity for Pontiac tubers was 1.060.

**Red Companion (MFX).** Red Companion total and marketable tuber yields were 223 and 184 cwt/acre, respectively. Potato tuber skin color was red 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 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 upright with a poor to fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Red Companion tubers was 1.062.

**Redsen (MFX).** Redsen total and marketable tuber yields were 98 and 71 cwt/acre, respectively. Potato tuber skin color was red with a smooth 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 6 to 8 inches. Vine type at full flower was rated as spreading to upright with a poor canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for Redsen tubers was 1.062.

**Super Red Norland (MFX).** Super Red Norland total and marketable tuber yields were 281 and 255 cwt/acre, respectively. Potato tuber skin color was red with a moderately smooth to 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 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 completely dead. Average specific gravity for Super Red Norland tubers was 1.058.

**B0811-4 (USDA).** B0811-4 total and marketable tuber yields were 260 and 224 cwt/acre, respectively. Potato tuber skin color was pink with a moderately smooth texture. Tuber flesh color was medium yellow. 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 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 B0811-4 tubers was 1.086.

**B0984-1 (USDA).** B0984-1 total and marketable tuber yields were 264 and 246 cwt/acre, respectively. Potato tuber skin color was red 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 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 poor to fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B0984-1 tubers was 1.068.

**B1145-2 (USDA).** B1145-2 total and marketable tuber yields were 246 and 207 cwt/acre, respectively. Potato tuber skin color was red with a smooth 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 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 fair canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for B1145-2 tubers was 1.063.

**B1523-4 (USDA).** B1523-4 total and marketable tuber yields were 356 and 320 cwt/acre, respectively. Potato tuber skin color was pink 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. 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 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 B1523-4 tubers was 1.063.

**B1529-1 (USDA).** B1529-1 total and marketable tuber yields were 315 and 284 cwt/acre, respectively. Potato tuber skin color was purple 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 B1529-1 tubers was 1.071.

**B1758-4 (USDA).** B1758-4 total and marketable tuber yields were 294 and 264 cwt/acre, respectively. Potato tuber skin color was pink with a 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. 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 poor to fair canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for B1758-4 tubers was 1.067.

**B1763-4 (USDA).** B1763-4 total and marketable tuber yields were 200 and 177 cwt/acre, respectively. Potato tuber skin color was purple with a slightly netted to moderately smooth texture. Tuber flesh color was cream. 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 4 to 6 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 B1763-4 tubers was 1.076.

**B1816-5 (USDA).** B1816-5 total and marketable tuber yields were 339 and 236 cwt/acre, respectively. Potato tuber skin color was purple with a moderately smooth texture. Tuber flesh color was medium yellow. 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 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 B1816-5 tubers was 1.064.

**B1952-2 (USDA).** B1952-2 total and marketable tuber yields were 252 and 230 cwt/acre, respectively. Potato tuber skin color was purple with a slightly 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 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 poor canopy. Plant maturity at harvest was rated as starting to mature to moderately mature. Average specific gravity for B1952-2 tubers was 1.075.

**B2033-3 (USDA).** B2033-3 total and marketable tuber yields were 340 and 295 cwt/acre, respectively. Potato tuber skin color was pink 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 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 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 B2033-3 tubers was 1.060.

**NYT17-2 (Cornell).** NYT17-2 total and marketable tuber yields were 186 and 113 cwt/acre, respectively. Potato tuber skin color was pink with a slightly netted to moderately smooth texture. Tuber flesh color was pink. Tuber shape was rated as 'mostly oblong' 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 4 to 6 inches. Vine type at full flower was rated as upright with a fair to good canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for NYT17-2 tubers was 1.063.

**S45-5 (Cornell).** S45-5 total and marketable tuber yields were 129 and 97 cwt/acre, respectively. Potato tuber skin color was purple with a moderately smooth to smooth texture. Tuber flesh color was blue to purple. Tuber shape was rated as 'mostly oblong' 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 poor canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for S45-5 tubers was 1.062.

**S48-6 (Cornell).** S48-6 total and marketable tuber yields were 240 and 206 cwt/acre, respectively. Potato tuber skin color was pink with a moderately smooth texture. Tuber flesh color was pink to red. Tuber shape was rated as 'mostly oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as good to excellent. 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 yellow and dying. Average specific gravity for S48-6 tubers was 1.058.

**W1962-1R (UW).** W1962-1R total and marketable tuber yields were 157 and 122 cwt/acre, respectively. Potato tuber skin color was red 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 6 to 8 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 W1962-1R tubers was 1.066.

**W2275-3R (UW).** W2275-3R total and marketable tuber yields were 276 and 224 cwt/acre, respectively. Potato tuber skin color was red with a 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. 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 yellow and dying to completely dead. Average specific gravity for W2275-3R tubers was 1.060.

**W2275-9R (UW).** W2275-9R total and marketable tuber yields were 296 and 253 cwt/acre, respectively. Potato tuber skin color was pink with a moderately smooth texture. Tuber flesh color was white. Tuber shape was rated as 'round to oblong' with an eye depth of deep to intermediate. 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 good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for W2275-9R tubers was 1.065.

Table 12. Production statistics for Red and Purple Fresh Market potato selections.

Clone	Total Yield (cwt/A)	Marketable Yield <sup>1</sup>		Size Distribution by Class (%) <sup>2</sup>					Size Class Range (%)		Specific Gravity
		(cwt/A)	% of standard	1	2	3	4	5	2 to 4	3 to 4	
Red LaSoda	373	341	100	3	43	44	10	0	97	54	1.061
All Blue	243	106	31	56	44	0	0	0	44	0	1.066
Cherry Red	203	169	49	6	66	27	1	0	94	28	1.077
Chieftain	317	305	89	4	56	38	3	0	97	41	1.059
LaRouge	353	332	97	3	53	35	9	0	97	44	1.061
Michigan Purple	350	338	99	2	38	46	14	0	98	60	1.067
Pontiac	409	385	113	3	38	42	17	0	97	59	1.060
Red Companion	223	184	54	12	78	10	0	0	88	10	1.062
Redsen	98	71	21	28	72	0	0	0	72	0	1.062
Super Red Norland	281	255	75	3	51	31	15	0	97	46	1.058
B0811-4	260	224	66	12	77	11	0	0	88	11	1.086
B0984-1	264	246	72	3	39	37	22	0	98	59	1.068
B1145-2	246	207	61	12	79	9	0	0	88	9	1.063
B1523-4	356	320	94	4	38	37	22	0	97	59	1.063
B1529-1	315	284	83	6	65	37	2	0	104	39	1.071
B1758-4	294	264	77	7	60	26	6	0	92	32	1.067
B1763-4	200	177	52	11	62	21	6	0	89	27	1.076
B1816-5	339	296	87	10	72	17	1	0	90	18	1.064
B1952-2	252	230	67	6	68	26	0	0	94	26	1.075
B2033-3	340	295	87	9	73	17	2	0	92	19	1.060

Table 12 (cont'd.). Production statistics for Red and Purple Fresh Market potato selections.

Clone	Total Yield (cwt/A)	Marketable Yield <sup>1</sup>		Size Distribution by Class (%) <sup>2</sup>					Size Class Range (%)		Specific Gravity
		(cwt/A)	% of standard	1	2	3	4	5	2 to 4	3 to 4	
NYT17-2	186	113	33	36	62	2	0	0	64	2	1.063
S45-5	129	97	28	21	73	6	0	0	79	6	1.062
S48-6	240	206	60	15	64	21	0	0	85	21	1.058
W1962-1R	157	122	36	23	67	10	0	0	77	10	1.066
W2275-3R	276	224	66	16	78	6	0	0	84	6	1.060
W2275-9R	296	253	74	12	74	14	1	0	89	15	1.065
<i>LSD</i> <sup>3</sup>	116	113		12.5	22.4	17.7	11.1	<i>ns</i>	12.5	19.9	0.008
<i>P Value</i>	0.0001	0.0001		0.0001	0.0001	0.0001	0.0001	-	0.0001	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 Tukey's Studentized Range (HSD) Test.

Table 13. Plant growth and tuber characteristics of Red and Purple Fresh Market potato selections.

Clone	Plant Growth Characteristics <sup>1</sup>				Tuber Characteristics <sup>1</sup>					
	% Stand	Early Vigor	Vine Type	Vine Maturity	IFC	SC	ST	TS	ED	APP
Red LaSoda	100	5.3	6-9	3.0	1.5	3.0	7.0	3.5	3.5	6.5
All Blue	100	5.3	6	1.8	9.0	1.0	6.0	5.0	3.5	5.0
Cherry Red	100	5.0	8	3.3	1.5	2.0	7.0	3.0	6.0	6.5
Chieftain	100	4.8	8	4.5	1.5	3.0	7.0	3.0	5.0	6.5
LaRouge	99	5.8	6-9	3.3	2.0	3.0	7.5	3.0	4.0	6.0
Michigan Purple	98	4.8	5-8	4.3	1.0	1.0	7.5	4.5	3.5	5.0
Pontiac	100	5.3	9-6	3.0	1.0	3.0	6.5	2.0	4.5	4.0
Red Companion	100	5.3	7-8	2.0	1.0	2.0	7.5	3.0	5.0	5.5
Redsen	99	6.3	4-7	1.0	1.0	2.0	8.0	2.5	6.5	5.0
Super Red Norland	99	5.8	5-8	1.0	1.5	2.0	7.5	2.0	5.5	6.0
B0811-4	99	5.0	7-8	3.5	4.0	3.0	7.0	2.0	6.0	5.5
B0984-1	100	5.3	7-8	2.8	1.5	2.0	7.0	2.0	6.5	6.0
B1145-2	100	6.0	5-8	1.0	1.0	2.0	8.0	2.0	7.0	4.5
B1523-4	99	5.8	6-9	3.5	2.0	3.0	6.5	2.5	5.0	5.0
B1529-1	100	5.3	9-6	4.0	1.0	1.0	6.0	3.0	6.0	5.5
B1758-4	99	5.3	7-8	3.3	2.5	3.0	7.0	2.5	7.0	5.5
B1763-4	100	5.3	4-7	2.5	2.0	1.0	6.5	2.0	6.0	5.5
B1816-5	100	5.5	5-8	4.3	4.0	1.0	7.0	3.0	6.5	6.0
B1952-2	93	5.0	7-4	5.3	1.0	1.0	6.0	2.5	5.5	5.5
B2033-3	100	5.3	8-5	4.5	2.0	3.0	6.5	2.5	7.0	5.0

Table 13 (cont'd). Plant growth and tuber characteristics of Red and Purple Fresh Market potato selections.

Clone	Plant Growth Characteristics <sup>1</sup>				Tuber Characteristics <sup>1</sup>					
	% Stand	Early Vigor	Vine Type	Vine Maturity	IFC	SC	ST	TS	ED	APP
NYT17-2	100	5.3	8-9	1.0	6.0	3.0	6.5	4.5	7.0	6.5
S45-5	99	4.5	4-7	1.5	8.5	1.0	7.5	4.5	4.0	6.5
S48-6	99	5.3	5-8	3.0	6.5	3.0	7.0	4.0	5.5	7.5
W1962-1R	100	5.8	4-7	1.3	1.0	2.0	6.5	3.0	5.5	6.0
W2275-3R	100	5.5	5-8	1.8	1.0	2.0	7.0	3.0	5.5	5.0
W2275-9R	99	4.3	9-6	4.3	1.0	3.0	7.0	3.0	4.5	5.0

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

Table 14. External and internal defects of Red and Purple Fresh Market 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
Red LaSoda	5	15	0	2	22	1	0	0	0
All Blue	0	1	0	4	5	0	0	0	0
Cherry Red	2	1	0	21	24	0	0	0	1
Chieftain	0	0	0	0	1	0	0	0	6
LaRouge	0	2	6	1	9	3	0	5	0
Michigan Purple	2	0	1	3	6	1	0	0	5
Pontiac	0	0	6	8	14	1	0	0	0
Red Companion	0	1	1	13	16	0	4	0	0
Redsen	0	0	0	2	2	0	0	1	0
Super Red Norland	0	0	4	13	17	10	0	0	1
B0811-4	0	3	1	0	4	0	0	0	0
B0984-1	1	1	0	10	12	0	0	0	1
B1145-2	0	1	2	6	10	0	0	3	0
B1523-4	0	1	3	20	24	0	0	0	0
B1529-1	5	4	0	3	13	0	0	0	0
B1758-4	0	1	5	4	11	3	0	1	0
B1763-4	0	0	1	1	2	0	0	0	0
B1816-5	0	7	0	3	9	0	0	0	0
B1952-2	2	4	1	0	7	0	0	0	0
B2033-3	2	6	2	5	14	0	0	1	0

Table 14. External and internal defects of Red and Purple Fresh Market 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
NYT17-2	0	4	1	7	12	0	0	0	0
S45-5	0	5	0	3	8	0	0	0	0
S48-6	0	3	1	5	9	0	0	0	0
W1962-1R	0	0	2	2	4	0	0	0	1
W2275-3R	1	0	4	3	9	0	1	3	0
W2275-9R	3	1	3	3	9	0	0	1	0
<i>LSD</i> <sup>3</sup>	4	9	6	14	18	8.5	<i>ns</i>	<i>ns</i>	6
<i>P Value</i>	0.0001	0.0001	0.0008	0.0001	0.0001	0.0463	0.4782	0.0646	0.0145

<sup>1</sup>Total culls include the sum of growth cracks, mishapen, 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 Tukey's Studentized Range (HSD) Test.

