

Table 1. 2008 marketable yield, size-graded yields, percent culls and total harvested yield by weight (25 lb boxes/A) for 24 fresh market, red slicing tomato varieties grown in Crossville, TN.

Variety	Marketable Yield (boxes/A) ^z	Jumbo (boxes/A)	Extra Large (boxes/A)	Large (boxes/A)	Medium (boxes/A)	Culls (%) ^x	Total Harvested (lbs/A)
Nico	2,123 a ^{y**}	897 bcd ^{***}	584 ab ^{***}	477 abc ^{***}	166 bcde ^{***}	29.7 cdefghi ^{***}	74,691 a ⁺
Sunsation	2,077 ab	852 bcde	525 abcde	456 abc	244 ab	19.8 a	64,547 abcd
Red Defender	2,054 ab	1,188 ab	492 abcdef	299 cdefg	74 def	26.3 abcdefg	69,617 ab
Solar Fire	2,023 ab	823 bcdef	549 abc	500 ab	151 bcde	20.7 ab	63,579 abcd
Mtn Glory	1,975 abc	988 abc	530 abcde	341 bcdefg	115 bcdef	25.9 abcdef	66,560 abc
BHN 602	1,969 abc	1,038 abc	600 a	293 cdefg	37 ef	28.7 abcdefgh	69,284 ab
Scarlet Red	1,951 abc	974 abc	498 abcdef	312 bcdefg	128 bcdef	29.6 bcdefghi	69,640 ab
Mtn Crest	1,947 abc	508 def	511 abcde	582 a	346 a	24.2 abc	64,111 abcd
Phoenix	1,861 abcd	1,391 a	249 gh	188 fgh	33 ef	20.2 ab	58,356 bcde
Fletcher	1,857 abcd	717 cdef	539 abcd	386 abcde	215 abc	32.9 defghij	69,490 ab
BHN 543	1,852 abcd	1,172 ab	370 cdefg	234 efgh	75 cdef	32.6 defghij	68,567 abc
Mtn Fresh Plus	1,835 abcde	1,354 a	247 gh	162 gh	71 def	30.5 defghi	66,543 abc
Finishline	1,808 abcde	871 bcde	429 abcdefg	344 bcdefg	164 bcde	26.9 abcdefgh	61,613 abcd
Sunshine	1,759 abcde	548 def	572 ab	472 abc	166 bcde	25.5 abcde	59,264 abcd
Quincy	1,754 abcde	1,126 abc	306 fgh	203 efgh	119 bcdef	24.5 abcd	57,808 bcde
NC07245	1,679 abcde	1,203 ab	284 gh	149 gh	43 ef	30.2 cdefghi	60,290 abcd
Mtn Spring	1,674 abcde	547 def	481 abcdef	436 abcd	210 abcd	28.3 abcdefgh	58,216 bcde
NC0821	1,668 abcde	1,405 a	149 h	88 h	27 ef	38.3 ijk	66,938 abc
NC07235	1,587 bcde	1,163 ab	239 gh	178 fgh	8 f	35.2 fghijk	61,760 abcd
Crista	1,460 cdef	724 cdef	345 efg	289 cdefg	102 cdef	34.6 efghijk	53,189 cde
Amelia	1,449 cdef	851 bcde	355 defg	165 gh	32 ef	36.2 hijk	58,003 bcde
NC00694	1,398 def	799 bcdef	396 bcdefg	162 gh	41 ef	43.4 k	61,473 abcd
BNH 640	1,316 ef	409 f	367 cdefg	374 bcdef	166 bcde	35.6 ghijk	50,159 de
Applause	997 f	443 ef	251 gh	243 defgh	58 ef	41.6 jk	42,874 e

^z Yield calculated assuming a population of 4,800 plants/A, grading based on USDA standards.

^y Means followed by different letters within each column are significantly different at P < 0.1(+), 0.05(*), 0.01(**) & 0.001(***), respectively.

^x Percentage of culls based on weight.

Table 2. Fruit quality measurements, including average fruit weight, soluble solids, titratable acidity and firmness, for 24 fresh market, red slicing tomato varieties grown in Crossville, TN in 2008.

Variety	Average Fruit Weight (oz)	Soluble Solids (%)	Titratable Acidity (%)	Firmness (N)	Seed Source
Amelia	9.7 cde	4.8 abcd	0.3171 cdefg	12.2 cdefg	Harris Moran, Seedway
Applause	8.4 fg	4.1 fgh	0.3711 abc	10.3 gh	Seedway
BHN 543	10.0 cd	4.2 defgh	0.2955 gf	9.7 h	Seedway
BHN 602	10.0 cd	4.2 defgh	0.3047 efg	12.2 cdefg	Seedway, Siegers
BHN 640	7.1 h	3.8 h	0.3356 abcdef	10.4 fgh	Siegers
Crista	9.1 defg	4.2 efgh	0.3411 abcdef	12.8 bcde	Harris Moran, Seedway
Finishline	10.2 bcd	4.3 defgh	0.3385 abcdef	13.0 bcde	Siegers
Fletcher	8.3 gh	4.3 defgh	0.3381 abcdef	10.6 fgh	Seedway
Mtn Crest	9.1 defg	5.0 ab	0.3579 abcde	13.3 bcd	Seedway, Siegers
Mtn Fresh Plus	8.4 fg	4.8 abcd	0.3095 defg	11.6 cdefgh	Harris Moran, Seedway
Mtn Glory	9.7 defg	4.9 abc	0.3853 a	11.3 defgh	Seedway
Mtn Spring	9.9 cde	4.3 defgh	0.3740 ab	11.9 cdefgh	Seedway
NC0694	9.3 defg	4.9 abc	0.3621 abcd	12.6 bcdef	Not yet available
NC07235	10.3 abcd	4.0 gh	0.3651 abc	14.6 ab	Not yet available
NC07245	9.8 cde	4.5 abcdefg	0.3211 bcdefg	13.2 bcd	Not yet available
NC0821	10.9 abc	4.6 abcdef	0.2696 g	15.6 a	Not yet available
Nico	9.4 defg	4.3 defgh	0.3620 abcd	13.4 bcd	Harris Moran, Seedway
Phoenix	11.3 ab	5.0 a	0.3696 abc	14.8 ab	Seminis
Quincy	11.6 a	4.4 cdefg	0.3707 abc	12.0 cdefg	Seminis
Red Defender	9.6 def	4.5 abcdefg	0.3355 abcdef	13.7 abc	Harris Moran, Seedway
Scarlet Red	9.3 defg	4.5 abcdefg	0.3664 abc	12.0 cdefg	Harris Moran
Solar Fire	8.7 efg	4.2 efgh	0.3508 abcde	10.9 efgh	Seedway
Sunsation	9.9 cde	4.4 bcdefg	0.3501 abcde	12.4 cdefg	Seminis
Sunshine	9.4 defg	4.7 abcde	0.3265 bcdef	10.6 fgh	Seedway

^z Tomatoes planted on May 12, 2008 and harvested seven times between July and September.

^y Means followed by different letters within each column are significantly different at $P < 0.05$.