

Performance of Tomatoes (all *Solanum lycopersicum* unless noted) (Hybrids, Open Pollinated and Heirlooms) for Late Blight (LB) and Early Blight (EB). – T. A. Zitter, Department of Plant Pathology  
Cornell University, March 2010.

Tomato Cultivar	Specifics and Seed source	Ref. of LB/EB Rx (year)	Genetic resistance	Comments
<b>Fresh Market Reds</b>				
<b>Legend OP</b>	Det., rnd red, 14-16oz; <b>Territorial</b> (9)	Not tested locally; (dev. Dr. Baggett, OSU) (1)	Reportedly tolerant for US8 and US11; <i>Ph2</i> only; EB res.	<i>Ph2</i> resistance will not provide resistance for current isolates of LB.
<b>New Yorker OP</b>	Det., rnd red, 4-6 oz, early season; <b>Online</b>	Not tested locally; (dev. NYSAES, Geneva, NY)	Resistance <i>Ph1</i> gene	<i>Ph1</i> gene will not provide resistance for current races of LB.
<b>West Virginia 63 OP</b>	Indet., rnd red, 6.5oz; <b>Online</b>	Not tested locally; (dev. Dr Gallegly, WVU) (5)	Reported as <i>Ph2</i> gene	<i>Ph2</i> gene will not provide resistance for current races of LB.
<b>JTO-99197 F1</b>	Det., large globe shape; <b>Johnny's</b>	Resistant for EB (8)		Suited for vine-ripe production.
<b>Heirlooms</b>				
<b>Aunt Ginny's Purple</b>	Indet., pur/blk, <u>beefsteak</u> , 16oz; <b>Online</b>	Good resistance US17 (2002, 2006) (4)	None reported	Potato-leaf plant.
<b>Aunt Ruby's German Green</b>	Indet., gr. <u>beefsteak</u> , 8-18oz; <b>Online</b>	Moderate resistant US17 (2002, 2006) (4)	None reported	
<b>Big Rainbow</b>	Indet., bi-colored <u>beefsteak</u> >16oz; <b>Online</b>	Good observations US22 (2009) (10)	None reported	
<b>Black Krim</b>	Indet., maroon, <u>beefsteak</u> , 10-12oz; <b>Online</b>	Mod. res. US17 (2002, 2006); mixed performance US22 (2009), (4,10)	None reported	
<b>Black Plum</b>	Indet., mahogany <u>plum</u> , 2 in. elongated; <b>Online</b>	Highly resistance US17 (2002, 2006) (4)	None reported	
<b>Brandywine</b>	Indet., pink fruit, <u>oblate</u> 1-2 lb.; <b>Johnny's; Online</b> ,	Moderate resistance US17 (2002, 2006) (4)	None reported	Prolific potato-leaf plant.
<b>Pruden's Purple</b>	Indet., dk. pink, >16oz; <b>Johnny's</b>	Moderate resistance US17 (7)	None reported	Medium potato-leaf plant.
<b>Slava</b>	Indet., red, 2 in.; <b>Online</b>	Some resistance reported US17 (3)	None reported	Potato leaf variety, Eastern European
<b>Stupice</b>	Indet., red, 2-3 in.; <b>Territorial</b> (9)	Some resistance reported US17 (3)	None reported	Potato leaf variety, Eastern European.
<b>Tigerella (AKA Mr. Stripey)</b>	Indet, bi-color, 4-6oz; <b>Online</b>	Observed good tolerance US22, (2009) (10)	None reported	Productive small round fruits with reddish-orange skin and stripes.

<b>Saladette (large cherry), Plum</b>				
<b>Juliet, Plum cluster F1</b>	Indet., 1 ½ -2 oz; <b>Johnny's</b>	Intermediate resistance for LB (US17) and EB (2009) (3,7,8)	South Asia, <i>Ph</i> gene(s) likely	Larger sister variety of 'Santa'.
<b>Mountain Magic F1, Large Cherry</b>	Indet. 2oz size; <b>Bejo (2), Johnny's</b>	Excellent with exposure to US22 (2009); multiple isolate resistance US11, US17 (6,10)	Heterozygous for <i>Ph2</i> and <i>Ph3</i> ; homozygous tolerant for EB	<b>Limited or not available in 2010;</b> (dev. Dr Gardner, NCSU).
<b>Plum Regal F1, Plum</b>	Det.; <b>Bejo (2)</b>	Excellent with exposure to US22 (2009); multiple isolate resistance US11, US17 (6,10)	Homozygous resistant <i>Ph3</i> ; Homozygous tolerant for EB	<b>Limited or not available in 2010;</b> (dev. Dr Gardner, NCSU).
<b>Small-fruited Grape, Cherry, Pear (assorted colors)</b>				
<b>Red Currant, OP</b>	Indet., 3/8-inch, sweet (but slightly tart); <b>Online</b>	Good resistance US 17 (2002, 2006) (4,7)	None reported	Vigorous growth and many fruit.
<b>Red Pearl, Grape</b>	Indet., 1oz; in clusters <b>Johnny's</b>	Intermediate resistance for LB US22 (2009) (8)	None reported	Compare to 'Red Grape' F1, but larger fruit.
<b>Matt's Wild Cherry Sm. Red Cherry He, S.</b> <i>lycopersicum</i> var. <i>cerasiforme</i>	Indet., cherry, ½ in. borne in clusters; <b>Johnny's, Online</b>	Excellent resistance US17 (2002, 2006); observed res. US22 (2009) (4,7,10)	None reported	Rampant vines; Probably <i>Ph3</i> ; origin is Hidalgo state in eastern Mexico.
<b>Yellow Currant, S.</b> <i>pimpinellifolium</i>	Indet., very small, 1/2-inch almost translucent yellow cherry; <b>Online</b>	Excellent tolerance US17(2002, 2006) (4,7)	None reported	Regular leaf; fruit borne in cluster of 6-8 tomatoes.
<b>Yellow Pear, OP, He</b>	Indet., cluster; ¾ - 1 oz; <b>Johnny's; Online</b>	Excellent tolerance US17 (2002, 2006) (4)	None reported	Tall and vigorous vine with many fruit.

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