

Fire Blight Ratings, Bloom Dates, and Precocity of Apple Varieties Tested in the Southeast

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The disease called fire blight is but one of several cultural problems facing apple growers in the southeastern portion of the United States. Since there is a diversity of susceptibility among available apple varieties (2, 3, 4), apple growers in areas of high fire blight incidence need to consider fire blight susceptibility when choosing varieties for planting.

Since the inception of the USDA apple breeding program at Blairsville, Georgia (1), we have grown many varieties and evaluated them for various horticultural characteristics. Most diseases and insects were partially controlled but no effort was made to control fire blight. Blairsville, located in the southern Blue Ridge Mountains, has a climate which seems to be ideally suited to fire blight development. Epidemics developed in 1963, 1967, 1970, and 1971. Fire blight was present in the other years, but at lower levels.

The grower must consider bloom date when evaluating apple varieties for planting in the southern mountains. In many years, periods of warm weather in late March and early April induce mid-April blooming of apple trees. On the other hand, the high elevations (2000 ft. or more) are conducive to late frost. We screened all available material looking for varieties which bloom relatively late. Late blooming provides frost avoidance. However, during the latter part of the

blooming season, the warm and humid weather favorable to fire blight development is more likely to occur. Thus, the late blooming varieties and selections would have to have inherently higher levels of fire blight resistance than most early-blooming varieties.

Information on precocity of bearing is presented because growers are generally interested in bringing their trees into bearing as soon as possible. Precocity is thus a rational breeding and selecting criterion.

The fire blight ratings, bloom dates, and precocity data from bearing trees appear in Table 1.

The varieties are listed in alphabetical order in Column 1. The rootstocks are listed in Column 2. This information helps in evaluating Column 6 since the clonal dwarfing rootstocks usually augment the precocity of the scion variety.

The number of trees per variety-rootstock combination is listed in Column 3. The maximum number of times any one of these trees has borne fruit is listed in Column 4. Taken together, Columns 3 and 4 indicate the number of times the variety-rootstock combinations have been exposed to fire blight inoculum through open flowers subsequent to the first bloom which was adequate for fruit set.

The average bloom dates are listed in Column 5. Rather than listing specific dates, each variety-rootstock combination is rated on its performance

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Table 1. Bloom date, precocity of bearing, and fire blight rating of apple variety-rootstock combinations at Blairsville, Georgia in the southern Blue Ridge Mountains.

1 Variety	2 Rootstock	3 Number of trees	4 Maximum number of times fruited	5 Average bloom date relative to Delicious ¹	6 Modal number of years to first fruit	7 Maximum fire blight rating for any tree ²	8 Mean of all maximum fire blight ratings
Alameda	Seedling	1	4	+5	4	1	
Alfa 68	Seedling	2	3	+1	6	1	1.0
All Summer	Seedling	4	8	+2	3	4	2.5
Anna	Seedling	1	3	+2	5	1	
Anoka	Seedling	2	6	-5	3	2	1.5
Antonovka	Seedling	2	7	-1	4	4	3.5
Astrachan (2 sports)	Seedling	6	7	-5	4	3	1.8
Atha	Seedling	1	2	+3	5	3	
Baladi	Seedling	1	5	-3	2	3	
Baldwin, Scarlet	Seedling	3	3	+4	4	5	3.0
Banana	Seedling	1	3	0	4	2	
Barry	Seedling	4	4	+4	8	5	4.0
Barry	EM VII	2	3	+4	4	5	5.0
Battleford #2	Seedling	1	1		4	4	
Beacon	Seedling	6	8	0	4	5	2.5
Ben Davis (Black Ben)	Seedling	2	8	-1	4	1	1.0
Beurriere	Seedling	1	1	+13	7	1	
Beverly Hills	EM VII	2	5	-2	3	3	3.0
Bishop	Seedling	1	2		5	2	
Black Crofton	Seedling	1	3	0	4	3	
Black Oxford	Seedling		4	+6	4	3	
Blaze	Seedling	2	6	0	3	1	1.0
Boskill #3	Seedling	1	2	+1	5	2	
Buckley Giant	Seedling	2	3	+7	3	5	5.0
Bushy Grove	Seedling	1	3	+5		2	
Caravel	Seedling	2	6	-3		1	0.5
Caroline Hopkins	Seedling	2	5	-7		3	2.5
Cauley	Seedling	1	1			3	
Close	Seedling	1	3			2	
Collins June	Seedling		4			2	

APPLE VARIETIES TESTED IN THE SOUTHEAST

Table 1 (Cont.)

1 Variety	2 Rootstock	3 Number of trees	4 Maximum number of times fructed	5 Average bloom date relative to Delicious ¹	6 Modal number of years to first fruit	7 Maximum fire blight rating for any tree ²	8 Mean of all maximum fire blight ratings
Conard	Seedling	1	1		4	4	
Cortland	EM VII	3	8	0	3	4	3.7
Cox's Orange (2 sports)	Seedling	2	3	+1	5	3	2.5
Crimson Beauty	Seedling	5	8	-4	5	1	0.8
Delcon	Seedling	3	8	+2	4	2	1.3
Delicious (21 sports)	Seedling	41	8	0	6	3	1.3
Delicious (7 sports)	EM VII	12	8	0	4	2	0.9
Delicious (3 sports)	MM 106	4	4	+1	3	1	0.8
Detroit Red	Seedling	4	8	+5	3	3	1.5
Djulabia	Seedling	1	1	+7	7	2	
Dolgo Crab	Seedling	2	8	-8	4	2	2.0
Dorsett Golden	MM 106	2	1	+5	3	4	2.5
Drap d'Or Guemene	Seedling	1	3	+1	5	1	
Duchess, Red	Seedling	5	8	-5	4	3	2.0
Dymock Red	Seedling	1	2	+5	6	2	
Earliblaze	Seedling	2	4	0	6	4	4.0
Early Harvest	Seedling	4	6	-1	4	3	2.8
Early Hewett	Seedling	2	5	0	3	2	2.0
Early McIntosh	EM VII	4	8	-1	4	5	3.0
Early Redbird	Seedling	2	5	-2	3	4	3.5
Edgewood	Seedling	1	2	+1	5	4	
Ein Shemer	Seedling	1	3	-6	4	3	
Emilia	Seedling	1	4	+5	4	3	
Empire	EM VII	2	6	-2	3	2	1.5
Evans May	Seedling	2	5	+1	4	5	4.0
Fameuse	Seedling	2	2	+1	4	1	0.5
Feltham Beauty	Seedling	1	2	+3	4	3	
Fenton	Seedling	2	7	0	5	4	3.5
Fireside	Seedling	1			4	4	
Franklin	Seedling	4		+1	5	4	2.3
Fuji	Seedling	1		+1	7	2	

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Fyan		2	6	+7	5	4	3.0
Gibbs (Gibbs-B)		1	2	+1	3	4	
Gladstone		1	4	+6	4	3	
Golden Anniversary		1	7	-4	1	1	
Golden Delicious		3	6	+3	5	1	1.0
Golden Delicious (3 "Spur" sports)	Seedling	6	6	+4	3	1	0.3
Golden Sweet	Seedling	2	3		3	4	3.0
Granny June	Seedling	1	1	0	6	2	
Gravenstein (3 sports)	Seedling	7	6	-4	6	4	2.4
Gravenstein	EM VII	2	3	-3	5	3	3.0
Greendale	Seedling	2	2	+4	4	5	4.5
Greening	Seedling	3	5	+1	5	5	3.3
Grimes Golden	Seedling	2	6	+2	3	2	1.0
Grove	Seedling	4	6	+6	7	2	1.5
Hampus	Seedling	1	2	-1	5	2	
Haralson	Seedling	2	8	-3	4	1	1.0
Hereford Cross	Seedling	1	2	+4	6	1	
Heyer #12	Seedling	1	5	-4	2	2	
Holiday	Seedling	1	1	+1	7	2	
Holiday	EM VII	1	1	0	4	1	
Holland	Seedling	1	3	+1	4	3	
Horse Apple	Seedling	2	3	0	5	4	3.5
Howard Shell	Seedling	1		-1	4	2	
Huidobro	Seedling	2		0	7	2	1.5
Huventus	Seedling	1		-5	4	2	
Idared	Seedling	2		0	5	4	3.5
Idared	EM VII	2		0	4	5	4.5
Ill F ₂ -26829-2-2	Seedling	1		0	4	1	
Ill F ₂ -26830-2	Seedling			0	2	3	
Ill U-672-100	Seedling			0	5	1	

APPLE VARIETIES TESTED IN THE SOUTHEAST

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Ill U-1019-101	Seedling	1	6	+1	2	3	
Ill 2	Seedling	2	1	+5	4	1	0.5
Ill 12	Seedling	1	3	+3	5	2	
Ind P-1792-1	EM VII	1	1	0	4	1	
Irish Peach	MM 106	2	6	+2	3	1	1.0
Jeffris	Seedling	1	6	0	3	2	
Jersey Red	Seedling	2	8	+4	4	2	
Joan	Seedling	1	1	-4	6	3	
Jonadel	EM VII	2	8	+1	3	2	1.5
Jonagram	Seedling	5	6	+7	5	4	2.6
Jonathan (5 sports)	Seedling	10	6	+2	5	5	3.5
Jonwin	Seedling	2	6	-3	5	5	4.0
July Delicious	Seedling	3	6	-1	6	1	0.7
Julyred	Seedling	1	7	-2	5	3	
June Hackworth	Seedling	1	6	+1	1	1	
June Wealthy	Seedling	1	2	-1	6	2	
Kendall	Seedling	2	2	-2	4	5	5.0
Kidd's Orange Red	EM VII	3	6	+1	4	1	1.0
King	Seedling	1	8	+2	4	3	
King Cole	Seedling	2	6	0	3	3	2.5
King David	Seedling	2	4	0	5	2	1.0
King Lucious	Seedling	2	5	+3	5	4	3.5
Kinnard's Choice	Seedling	3	6	+1	3	3	1.3
Lady	Seedling	1	6	+4	3	1	
Lakeland	Seedling	2	6	0	3	4	3.5
Lande	Seedling	1	4	+14	4	3	
Legana	Seedling	1	5	-3	3	1	
Leonard Flatt	Top-Worked	2	2	0	4	2	2.0
Lobo	Seedling	2	6	+1	3	2	1.5
Lodi	Seedling	2	8	-2	4	5	4.0
Lowland Raspberry	Seedling	1	1		4	1	

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Lowry	Seedling	2	6	0	5	4	3.0
Macoun	Seedling	5	7	+1	5	4	2.6
Maiden Blush	Seedling	2	3	0	5	3	1.5
<i>Malus baccata</i> #3	Seedling	1	4	-9	4	0	
Mammoth Black Twig	Seedling	3	7	+1	4	3	2.3
Mantet	Seedling	2	5	-1	3	5	3.5
Maud	Seedling	2	6	0	3	2	2.0
McIntosh (4 sports)	Seedling	7	7	-3	5	4	1.9
McIntosh (3 sports)	EM VII	5	8	-2	3	3	1.6
Medina	Seedling	1	4	0	4	2	
Melba, Red	Seedling	2	8	-5	4	2	1.5
Melba, Red	EM VII	2	1		3	4	4.0
Melrose	Seedling	2	7	+2	5	2	1.5
Merton Delight	Seedling	1	2		5	3	
Miami	Seedling	1	3	+2	4	3	
Milton	Seedling	2	6	-1	6	3	2.5
Minjon	Seedling	2	5	+3	3	2	1.5
Minjon	MM 106	1	1	+2	4	2	
Mio	Seedling	2	6	+1	4	2	1.5
Miss 23	Seedling	1	2	-1	5	0	
Miss 23	Top-Worked		4	-1	3	1	
Mitschurin's Samenloser	Seedling	1	5	-3	2	2	
Mollie's Delicious	Seedling	6	8	+2	4	3	2.0
Monroe	Seedling	2	8	+1	5	5	3.0
Monroe	EM VII	2	8	+1	4	3	2.5
Mountain Beauty	Seedling	1	1	0	6	2	
Muster	Seedling		3	+1	5	1	
Mutsu	EM II		6	0	3	3	3.0
M 2439	Seedling		3	0	4	2	
M 6427	Seedling		2	+5	5	3	
M 6947	Seedling		2	+1	5	3	

APPLE VARIETIES TESTED IN THE SOUTHEAST

Table I (Cont.)

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M 6970	Seedling	1	1	+5	5	4	
M 7064	Seedling	1	2	+2	4	3	
Newfane	Seedling	1	1	0	6	3	
New Holland	Seedling	2	7	0	5	3	3.0
Niagara	Seedling	2	5	-5	6	5	4.5
NJ 10	EM VII	2	7	-1	4	1	1.0
NJ 22	Seedling	1	3	+6	4	3	
NJ 23	Seedling	1	2	0	6	2	
NJ 29	Seedling	2	7	+4	6	3	3.0
NJ 32	Seedling	1	2	-5	5	4	
NJ 36	Seedling	1	2	-1	4	2	
NJ 6055	Seedling	1	2	-2	5	2	
Northern Spy (2 sports)	Seedling	4	3	+5	7	5	4.3
NY E-18	EM VII	2	8	0	4	1	1.0
NY E-145	EM VII	2	6	+2	5	2	2.0
NY 49-21	Seedling	2	6	+2	5	2	2.0
NY 50-9	EM VII	2	4	0	3	4	3.0
NY 17207	Seedling	1	6	0	6	2	
NY 18491	Seedling	1	2	0	5	3	
NY 43021-2	Seedling	2	8	+2	5	1	0.5
NY 44410-1	EM VII	2	6	+1	3	4	3.5
NY 44416-6	Seedling	2	6	-1	6	2	2.0
NY 44421-1	Seedling	2	3	+3	9	3	3.0
NY 44421-1	EM VII	2	5	+3	6	4	3.5
NY 45500-3	EM VII	2	2		3	4	4.0
Oriole	Seedling	2	7	-4	4	3	3.0
Orleans	Seedling	1	3	+1	4	1	
Ottawa 292	Seedling	2	7	-3	6	1	1.0
Ottawa 452	Seedling	1	3	-4	5	2	
Ottawa 541	Seedling	1	4	0	3	0	
Oxbo	Seedling	1	4	-4	2	2	

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Ozark Pippin	Seedling	1	3	-3	4	2	
Paragon	Seedling	2	7	+1	5	1	1.0
Penland Red	Seedling	3	3	+2	4	4	3.3
Pettingill	Seedling	2	3	+1	6	3	2.5
Piekne Oltarzewa	Seedling	1	2	+2	5	3	
Pink Pearl	Seedling	2	5	-1	4	5	4.5
Pink Pearl	MM 106	2	1	-3	3	3	3.0
PI 200269	Seedling		2	0	5	2	
P. J. Berguis	Seedling		2	-1	5	3	
Pomme Frambois	Seedling		2	-2	2	4	
Puritan	Seedling	2	8	-3	4	2	1.5
Quarrenden Red	Seedling		2	0	6	2	
Quinte	Several	4	3	0	4	5	2.0
Ralls	Seedling		6	0	4	3	
Red Apple	Seedling		2	-2	5	3	
Red Cinnamon	Seedling	1	1	+3	4	0	
Red Delight	Seedling	5	5	+2	4	5	4.0
Redfield Crab	Seedling	1	4	-6	4	3	
Redgold	Seedling	2	6	0	7	2	2.0
Redhook	Seedling		1	-2	6	0	
Red June	Seedling	2	7	-1	5	4	3.5
Red June	EM VII	2	6	-2	2	2	2.0
Red Rowden	Seedling	1	5	-1	3	2	
Red St. Lawrence	Seedling		4	+1	5	1	
Red Sharon	Seedling	2	4	-3	5	1	0.5
Red Van Buren	Seedling	2	1	-2	4	4	4.0
Red Warrior	Seedling	3	4	+1	5	3	2.0
Red Westfield	Seedling	2	6	+1	6	2	1.5
Reine des Hatives	Seedling	1	3	+3	4	2	
Ringstad	Seedling		1	+1	7	1	
Roanoke	EM VII		2	+9	3	1	

APPLE VARIETIES TESTED IN THE SOUTHEAST

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Robert Nairn	Seedling	1	6	0	2	3	
Roman Stem	Seedling	1	6	+4	3	2	
Rome Beauty (6 sports)	Seedling	12	8	+5	4	4	2.6
Rome Beauty (3 sports)	MM 106	4	3	+6	3	3	1.5
Roxbury Russet	Seedling	2	8	-4	4	3	2.5
Ruby	Seedling	3	8	+4	4	2	1.0
Ruhm aus Kirchwarder	Seedling	1	1	-1	6	2	
Rusty Coat	Seedling	2	6	+3	6	3	2.5
Safstaholm	Seedling	1	1	-2	6	2	
St. Clair	Seedling	1	2	+2	6	2	
St. Everard	Seedling	1	4	+4	4	1	
San Juan	Seedling	1	2	-4	6	2	
Shaw	Seedling	1	2	+6	5	2	
Shenandoah	Seedling	1	2	+4	6	1	
Shockley	Seedling	3	6	0	4	3	2.7
Slocan Crab	Seedling	1	2	-4	6	1	
Smokehouse	Seedling	2	4	0	5	2	1.5
Snovit	Seedling	1	1	-5	6	2	
Snow	Seedling	2	4	-2	5	2	1.5
Spartan	Seedling	2	6	0	6	1	1.0
Spasserud	Top-Worked	2	6	+3	4	1	0.5
Spätbluhender	Seedling	1	3	+24	5	1	
Spencer	EM VII	2	6	0	5	1	0.5
Spigold	Seedling	3	6	+4	6	1	0.7
Spitzenberg, Red	Seedling	3	3	+1	8	4	3.7
Stark Earliest	Seedling	2	7	-3	5	4	3.5
Stayman (5 sports)	Seedling	9	7	+2	6	3	1.4
Stearns	Seedling	1	1	+3	6	4	
Steele's Red	Seedling	2	2	0	5	5	5.0
Subtropical	Seedling	3	4	+3	5	2	1.7
Summer Delicious	Seedling	2	6	-1	6	4	3.0

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Summer Pearmain	Seedling	2	4	+1	5	3	2.5
Summer Rambo	Seedling	3	3	+1	5	4	3.3
Summerred	EM VII	2	2	-4	3	4	4.0
Sweet Delicious	Seedling	2	8	+4	4	0	0.0
Terry	Seedling	3	7	+1	3	3	2.3
Tifton (Gibbs-A)	Top-Worked	1	2	0	3	4	
Tohoku #4	Seedling	1	2	+1	6	3	
Tompkins King	Seedling	2	2	+1	4	4	2.5
Tom Putt	Seedling	1	1	+1	7	1	
Tropical Beauty	Seedling	1	3	+1	5	1	
Turley	Seedling	2	7	+4	5	1	1.0
Twenty Ounce	Seedling	3	5	+1	3	5	4.0
Tydemans Red	Seedling	2	2	-3	4	5	5.0
Utter	Seedling	2	6	-4	5	5	3.0
Valmore	Seedling	2	4	+2	6	4	3.5
Va 11-75	Seedling	1	3	+1	4	2	
Va 11-133	Seedling	1	6	0	2	2	
Va 14-54	Seedling	1	2	+3	6	1	
Va 14-84	Seedling	1	2	+6	6	1	
Va 14-161	Seedling	1	2	+4	6	1	
Va 14-179	Seedling	1	2	+3	6	1	
Va 20-34	Seedling	1	1	+5	7	1	
Vered	Seedling	1	2	-4	6	0	
Viking	Seedling	1	2	-1	6	1	
Virginia Beauty	Seedling	2	7	0	6	1	1.0
Virginia Crab	Own	9	7	-6	5	4	2.4
Wagener	Seedling	2	3	0	5	4	3.0
Wayne	EM VII	2	3	+7	3	4	3.5
Wealthy (3 sports)	Seedling	6	3	-4	3	5	3.5
Webster	Seedling	2	8	-3	5	3	2.5
Webster	EM VII	2	8	-1	4	3	2.5

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Wellington	Seedling	2	7	-4	5	1	0.5
Whetstone	Seedling	2	6	+1	6	3	2.5
White Astrachan	Seedling	2	6	-2	6	2	2.0
White Winter Pearmain	Seedling	2	7	-2	5	2	2.0
Whitney Crab	Own	6	8	-5	5	4	3.0
Wickson Crab	Seedling	2	8	0	5	2	1.5
Williams Red (3 sports)	Seedling	6	6	+5	5	2	1.0
Winesap (4 sports)	Seedling	8	7	+3	5	2	0.9
Winter Sweet	Seedling	2	3	+4	4	2	1.0
Wolf River	Seedling	2	2	+5	5	5	5.0
Worcester Pearmain	Seedling	1	1	+4	7	2	
Wrixparent	Seedling	1	3		6	4	
Yates	Seedling	1	7	0	4	2	
Yellow Belleflower	Seedling	2	6	0	6	1	1.0
Yellow Newtown	Seedling	2	7	+2	6	3	2.5
Yellow Transparent	Seedling	2	3	-4	3	5	4.0
Yorking	Seedling	2	2	0	5	4	3.5
Young America Crab	Seedling	2	2	-1	10	1	0.5
6007	Own	1	4	-2	5	1	
6013-2	Own	1	6	+1	3	1	
6124-2	Dwarfing	2	2	+5	3	1	0.5
6124-51	Dwrafing	2	1	+2	3	3	2.0

¹The Delicious variety on seedling rootstock is the standard of comparison. Other variety-rootstock combinations are listed as blooming a number of days before (-), with (0), or after (+) the standard variety.

²Rating of approximate percentage blighted twigs. 0 = Escape, 1 = 6¼%, 2 = 12½%, 3 = 25%, 4 = 50%, 5 = 100%.

relative to a standard combination, 'Delicious'/seedling. Values preceded by a minus sign indicate days of bloom before 'Delicious' while values preceded by a plus sign indicate days after 'Delicious.'

Precocity data appear in Column 6. The modal number of years to first fruit, rather than the average, is presented in order to avoid meaningless fractions of years. Note that in all cases (except Minjon) where the same variety is evaluated on both seedling and clonal dwarfing rootstock, the latter enhanced precocity.

Fire blight data are presented in Columns 7 and 8. The rating system used was reported previously (4). It is geometrically and approximately based on the percentage of all blighted twigs. All ratings were made late in the season to discriminate against varieties in which fire blight had spread unhampered. The ratings are 0 = escape, 1 = 6 $\frac{1}{4}$ % blighted, 2 = 12 $\frac{1}{2}$ % blighted, 3 = 25% blighted, 4 = 50% blighted, and 5 = 100% blighted. The maximum fire blight rating of any tree in any year is listed in Column 7. The

mean of all maximum fire blight ratings of all trees of a variety-rootstock combination is listed in Column 8. However, if there was but one tree of a variety-rootstock combination, no mean is listed in Column 8.

Table 2 contains supplementary information obtained from non-bearing trees. This information is less valuable than that in Table 1 because trees which have not bloomed have not been exposed to fire blight inoculation through the flowers. All fire blight ratings of "0" should be considered to be escapes (3).

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Table 2. Fire Blight Observations on Non-Bearing Trees at Blairsville.

Variety	No. of Trees	No. of Years Observed	Maximum Fire Blight Rating ¹
Adams Pearmain	1	5	4
Amisk	2	2	0
Binet Violet	1	7	0
Black Gilliflower	2	3	5
Blue Pearmain	1	5	3
Bravo de Esmolte	1	3	1
Bullock	2	4	4
Cheddar Cross	1	7	2
Chenango Altenberg	2	3	5
Chenango Strawberry	1	5	4
Cherry Pearmain	1	3	0
Crandall	2	3	5
De Flandres	1	6	5
De Jaune	1	4	1
Deluxe	1	3	4
Dr. Clifford	1	5	3
Dyer	2	3	0
Flaskeple	1	7	1

Table 2. (Cont.)

Variety	No. of Trees	No. of Years Observed	Maximum Fire Blight Rating ¹
Foster		3	1
Gallen		6	0
Glenton		8	2
Golden Bough		5	3
Graham		6	5
Granny Smith		3	1
Haskell Harris		3	3
Hoover	1	6	1
Ill 5	1	7	
Ill 11	1	7	1
Ill 14	1	6	3
Ind P-609-3	1	3	0
Ingers	1	4	4
Ingrid Marie	1	6	2
James Grieve, Red		3	5
Jewett's Red	1	2	0
Jongrimes	1	4	5
Kalmar Glasäpple	1	7	
Keegan's Crab	1	4	2
Khashabi	1	4	0
Kizil Alma	1	7	1
Lady Sweet	1	8	1
Late Strawberry	1	3	3
Laxton's Fortune	1	6	2
Laxton's Leader	2	4	4
Limberville	2	3	1
Lindo da Insua	1	2	5
Lowell	1	7	3
Macross	1	4	1
Maglemer	1	6	2
Manche Rouge	1	3	0
Margil	1	6	3
May Bloom	1	4	2
Medaille d'Or	3	2	0
Miron Sacarani	1	6	3
Mount Boomer	1	5	5
M 7060	1	6	4
NJ 24	1	6	3
NJ 157555	1	4	3
NY 49-23	1	5	0
NY 11894	1	5	3
NY 11902	1	5	3
NY 16884	2	3	4
NY 44428-5	1	4	0
Opalescent	1	3	1
Pacific Gold	2	2	5
Pomme Thoury	1	4	3
Pommier Llorca	1	7	1
Potts' Seedling	2	4	0

Table 2 (Cont.)

Variety	No. of Trees	No. of Years Observed	Maximum Fire Blight Rating ¹
Priol's Delicious	1	7	1
Raritan	2	3	4
Red Belleflower (2 sports)	2	4	5
Red-Flesh Crab		3	0
Red Jersey	1	6	1
Reinette d'Espagne	1	6	5
Royal Jubilee	2	4	1
Shiawassee	2	3	0
Sokeri-Miron	1	8	2
Sops of Wine	2	6	1
Sour John	1	3	1
South Carolina Summer	1	7	1
Sparreholm	1	4	2
Spice Apple	1	3	1
Starr	4	4	5
Storappel	1	4	4
Succary	1	3	0
Summer Champion	1	3	5
Summer Gold	1	7	2
Sungold	2	3	1
Sweet Bough	2	6	2
Toko	1	5	2
Van Eseltine Crab	1	3	5
Va 12-79	1	6	3
Victory	1	3	5
Vinnoe	1	7	1
VPI 6	1	3	0
Winter Banana	2	3	4
Winter Queen	1	7	1
Wright	1	6	3
Yephory's Chernogous	1	7	1
Zaboani	1	2	4

¹See footnote 2, Table 1.

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