

Comments:: July 26, 2 3/8 - 2 1/2, round, washed and slightly striped medium 50-100% purple-red to red; yellow ground; very conspicuous lenticals; cream flesh, firm, very attractive. Scab resistance from *M. floribunda* 821. Tendency for fruit to drop. Goonewardene: resistance to codling moth and plum curculio.

PI 589948. *Malus domestica* Borkh.

PRI 1841-11. Pedigree - McIntosh x 703-1 (P.I. 172622 'Antonovka' x 'Jonared') Selected 8/18/69. Comments:: Scab resistance from Antonovka - PI 172633; good mildew resistance; excellent cedar rust resistance. Aug. 16, 2 5/8 - 2 3/4", round to short-conic, light to medium 50-99% red, blushed, aromatic, pale yellow to cream ground, flesh, firm, tough, bland, spicy, aromatic, juicy; attractive. Goonewardene: resistance to apple maggot and codling moth.

PI 589949. *Malus domestica* Borkh.

PRI 1557-2. Pedigree - 'Crandall' x PRI 544-5 ('Golden Delicious' x PRI 14-145 <'Golden Delicious' x "F2"26829-2-2>) Selected 8/19/69. Comments:: Aug 20., 2 3/4" conic; 50% light red, yellow ground (nice) crisp, breaking, fair quality, tendency to drop; heavy annual cropper; excellent powdery mildew resistance. Goonewardene: resistant to red-banded leaf roller and European red-mite.

The following were developed by L.F. Hough, Rutgers University, Department of Horticulture, New Brunswick, New Jersey, United States. Donated by Hilary F. Goonewardene, Purdue University, Dept. of Entomology, Entomology Hall, W. Lafayette, Indiana 47907, United States. Received 08/25/1988.

PI 589950. *Malus domestica* Borkh.

PRI 1983-201. Pedigree - NJ60837 x 669NJ5 ('Crandall' x 14-226 <'Golden Delicious' x "F2"26829-2-2>) Selected 10/10/71. Comments:: Scab resistance from *M. floribunda* 821. Octo. 10, 2 5/8 - 3; round to conic; 70-90% red, yellow ground; flesh cream, very crisp, juicy to very juicy; attractive. Fire blight susceptible; very hard crisp; excellent quality. Goonewardene: resistance to apple maggot and codling moth.

The following were developed by Williams. Donated by Hilary F. Goonewardene, Purdue University, Dept. of Entomology, Entomology Hall, W. Lafayette, Indiana 47907, United States. Received 08/25/1988.

PI 589951. *Malus domestica* Borkh.

Co-op 12. Pedigree - 'Raritan' x PRI 1018-101 (N.J.24 <N.J.117637 ['Melba' x {'Wealthy' x 'Starr'}] x N.J.12/'Red Rome' x 'Melba'> x PRI 47-147 \ 'Jonathan' x "F2"26829-2-2 \) Selected 8/1/72. Comments:: Jul. 31, 2 5/8 x 3"+; short-conic; medium 50-75% red; pale-yellow to green-yellow ground; flesh crisp and firm; juicy; very attractive; produces annually; uniform large fruit; some tendency to drop storage 2 1/2 to 3 weeks maximum; sister of 'Red Free'; scab resistance from *M. floribunda* 821 Goonewardene: resistance to codling moth and European red mite.

PI 589952. *Malus domestica* Borkh.

Redfree. Pedigree - 'Raritan' x pri 1018-101 (N.J.24 <N.J.117637 ['Melba' x {'Wealthy' x 'Starr'}] x N.J.12/'Red Rome' x 'Melba'> x PRI 47-147 \ 'Jonathan' x "F2"26829-2-2 \) Selected 8/9/71. Comments:: Scab resistance from *M. floribunda* 821. Aug. 10, 2 5/6 - 3", oblate-round, medium 50-99% very bright red, green-yellow to pale-yellow ground, flesh firm, crisp, slightly aromatic, full flavored, medium juicy to juicy; very attractive. Good resistance to powdery mildew; immune to cedar-rust; moderate resistance to fire blight. Goonewardene: resistance to plum curculio and European red mite.