

Register of New Fruit and Nut Varieties

Brooks and Olmo

List 35

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ADDENDA AND REVISIONS

APPLE

- Freedom.** -Described in List 34. Plant pat. 5723, 22 Apr. 1986.
Jonalicious (*Daniel*). -Synonym added; plant pat. 1777, 9 Dec. 1958.
Nured® Jonathan (*Improved Red Jonathan*) -Synonym added; plant pat. 2650, 5 July 1966.
Paulared (*Summer Mac*). -Synonym added; plant pat. 2800, 12 Mar. 1968.
Stark® Blushing Golden™ (*Griffith Gold*) -Synonym added; plant pat. 2835, 1 Oct. 1968.
Starkspur Compact Red Delicious (*Cascade Compact Red Delicious*). -Described in List 32. Plant pat. 4811, 26 Jan. 1982.
Starkspur Dixired Delicious (*Hared*). -Described in List 32. Plant pat. 5547, 3 Sept. 1985.
Starkspur Law Rome (*PeaceValley*) -Described in List 32. Plant pat. 4793, 24 Nov. 1981.
Starkspur UltraStripe Delicious (*Jenred*) -Described in List 32. Plant pat. 5472, 21 May 1985.
Starkspur Winter Banana (*Frecon*). -Described in List 33. Plant pat. 4901, 26 Oct. 1982.

APRICOT

- Stark Double Delight** (*Homedale*). -Described in List 34. Plant pat. 5651, 28 Jan. 1986.

GRAPE

- Centennial Seedless.** -Described in List 32. Plant pat. 4784, 3 Nov. 1981.
Christmas Rose. -Described in List 32. Plant pat. 5056, 31 May 1983.
Dawn Seedless. -Described in List 32. Plant pat. 4788, 10 Nov. 1981.

In this List 35, specialist expertise has been enlisted in preparing many commodities; these authors, whose contributions are much appreciated, are identified at section headings. The introducers of many of the varieties were consulted. In addition to section authors and introducers, the contributions of many horticulturists who furnished basic information and critically read the draft descriptions are gratefully acknowledged, especially the following: Frank Alston, R. L. Andersen, James Ballard, James R. Ballington, Phil Baugher, Tom Beckman, Rene Bernhard, G. Bulow, Tom Callahan, Tom Chamberlain, A. D. Crowe, Campbell Davidson, F. Fujii, Steve Doud, Arlen Draper, Charles Embree, R. L. Granger, Richard Hayden, Wally Heuser, M. Ishiyama, D. L. Jennings, Dale Kester, R. C. Lamb, F. J. Lawrence, R. E. C. Layne, Yves Lespinasse, C. S. Logan, R. J. McNicol, Shawn Meblenbacher, W. R. Okie, Ron Perry, Joseph Preczewski, A. G. Reynolds, D. M. Russell, John Sanford, Ralph Scorza, Michael Smith, H. J. Swartz, Stephen Tancred, K. R. Tobutt, S. Tsuchiya, J. J. Verhaegh, Tom Vorbeck, John Warner, T. O. Warren, and C. F. Zaiger. Generous financial support was provided by American Pomological Society, which is much appreciated.

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- Redglobe.**-Described in List 32. Plant pat. 4787, 10 Nov. 1981.
Symphony. -Described in List 32. Plantpat. 5013, 29 Mar. 1983.

NECTARINE

- Stark GulfPride** (*Zaipride*). -Described in List 34. Plant pat. 5461, 7 May 1985.
Stark HoneyGlo (*Anderhone*). -Described in List 32. Plant pat. 4789, 10 Nov. 1981.

PEACH

- Eldorado.** -Described in List 32. Plant pat. 4780, 20 Oct. 1981.
Stark® Finale. Described in List 34. Plant pat. 5655, 4 Feb. 1986.
Stark® Gulf Queen (*Zaiqueen*). -Described in List 34. Plantpat. 5463, 7 May 1985.

RASPBERRY

- Royalty.** Described in List 33. Plant pat. 5405, 12 Feb. 1985.

STRAWBERRY

- Douglas.** -Described in List 33. Plant pat. 4487, 20 Nov. 1979.
Fern. -Described in List 34. Plant pat. 5267, 7 Aug. 1984.
Hecker. -Described in List 33. Plant pat. 4507, 4 Mar. 1980.
Pajaro. -Described in List 33. Plant pat. 4538, 27 May 1980.
Santana. -Described in List 34. Plant pat. 5268, 7 Aug. 1984.
Selva. -Described in List 34. Plant pat. 5266, 31 July 1984.
Soquel. -Described in List 34. Plant pat. 5264, 31 July 1984.
Tustin. -Described in List 34. Plant pat. 5265, 31 July 1984.

ALMOND

ROOTSTOCKS FOR ALMONDS

J. N. Cummins and Tom Beckman

Ferciana -See Ishtara®.

GF 8-1.- See under Peaches. Almond/GF 8-1 trees are of stature similar to almond/peach.

GF 677. -See under Peaches. Compatible with very broad range of almond varieties. Induces very rapid growth; trees within the planting are very uniform. Almond/GF 677 trees are very vigorous, uniform, and productive and tolerant of drought and calcareous soils.

Hansen 536. -Orig. in Davis, Calif. by C.J. Hansen, Dept. of Pomology, Univ. of Calif. Selected and introd. in 1986 by D.E. Kester and R.N. Asay. Almond B × Peach Selection 1-8-2; cross made in 1964; pollen parent has *Prunus davidiana*, Chinese peach PI 6582, and Okinawa in pedigree. Very vigorous clonal rootstock for almonds, peaches, and nectarines; also compatible with prunes and Japanese

plums, but not with apricots. In California, propagated by hardwood cuttings taken in late fall and planted directly in the nursery row, where survival is slightly lower than that of Hansen 2168. Root system of mature tree is intermediate between almond seedling and peach; large branch roots, large mass of medium to small fibrous roots; more deeply rooted than Marianna 2624. Anchorage excellent. No suckers. Not coldhardy. Immune to root-knot nematodes; susceptible to root-lesion nematodes; tolerant to lime-induced chlorosis. Selected because of its slightly better tolerance of *Phytophthora syringae* than Hansen 2168, but has shown less field survival than peach. Relatively low chilling, about 400-500 h, similar to Nonpareil almond.

Hansen 2168. -Orig. in Davis, Calif. by C.J. Hansen, Dept. of Pomology, Univ. of California. Introd. in 1986 by D.E. Kester and R.N. Asay. Very vigorous rootstock for almonds, peaches, nectarines, and Japanese plums; not compatible with apricots. Almond B × Peach Selection 1-8-2; cross made in 1962; pollen parent has *Prunus davidiana*, Chinese peach PI 6582, and Okinawa in pedigree. Propagated by hardwood cuttings and by micropropagation. Root system of mature tree intermediate between almond seedling and peach; more deeply rooted than Marianna 2624. Anchorage excellent; no suckers. Not cold hardy. Resistant to root-knot nematodes; immune to both *M. javanica* and *M. incognita acrita*; susceptible to root-lesion nematodes; tolerant to lime-induced chlorosis. Slightly less tolerant of *Phytophthora syringae* than Hansen 536 in original tests. Relatively low chilling, about 400-500 h, similar to Nonpareil almond.

Ishtara®. -See under Plums. Compatible under Ai, Ferragnes, Ardechoise, and Ne Plus Ultra; no incompatibilities reported. Vigor similar to that of peach and GF 8-1. Excellent anchorage expedites shaking.

Myran®. -See under Peach Rootstocks. Compatible under all cultivars of almond tested. Very vigorous, similar to GF 677. Young almond trees on Myran show no symptoms of *Verrucium* wilt when planted in contaminated soil. More tolerant of root asphyxia than are peach × almond stocks.

APPLE

R. D. Way, Robert A. Norton, and J. N. Cummins

Ace® Spur Delicious. -Orig. at Quincy, Wash., by Carl Perleberg. Limb sport of Oregon Spur Delicious. Discovered in 1970. Plant pat. 4587, 12 Aug. 1980; assigned to Columbia Basin Nursery. Similar to Oregon Spur Delicious, except earlier coloring and longer type.

Acey Mac (Buhr McIntosh). -Orig. in Peru, N.Y., by Arthur Burrill. Discovered before 1969. Assigned to Columbia Basin Nursery, Quincy, Wash. Fruit: very similar to McIntosh in appearance, flavor, shape, flesh color, and texture, but larger, firmer, and less inclined to preharvest drop. Ripens 5 days after Rogers McIntosh. Tree: similar to McIntosh.

Adina™ (Frankad, Stark® Adina™). -Orig. instant hope, Queensland, Australia, by H. Franklin. Plant pat. 6361, 1 Nov. 1988. Assigned to Stark Bro's Nursery, Louisiana, Mo. Fruit: large; color red to purplish red, occasional stripe; shape round conic; flesh creamy white, firm, very juicy; sweet, with distinctive hint of cinnamon; superior eating quality; harvest season very early, mid-June. Tree: vigorous; precocious; low chilling requirement (350 h); grows in Hardiness Zones 6 to 9; Dorsett Golden is a suitable pollinizer.

Applethorpe Earlidel. -See Earlidel.

Applethorpe Summerdel. -See Summerdel.

Arlet. -See Swiss Gourmet™.

Belchard® -See Chantecler.

Bountiful (Marring Bountiful). -Orig. in Kent, England, by F.H. Alston, East Malling Research Station. Introd. in 1986. Cox's Orange Pippin open-pollinated. Fruit: large, 75- to 80-mm diam.; skin green with occasional orange/red patches or stripes; acidity lower than Bramley; a culinary apple, cooks to give a deliciously flavored sauce; best-suited for home orchards. Ripens in late September; at 3.5C, stores inmarketable condition until January. Tree: compact, about half the size of Bramley trees; precocious; productive; little pruning required; few pollination problems.

Braeburn. -See Hillwell.

Britegold. -Orig. in Trenton, Ontario by L.P.S. Spangelo, S.J. Leuty, and H.B. Heaney, Agriculture Canada, Ottawa, and Smithfield Experimental Farm, Trenton, Ont. Introd. in 1980. Sandel (Delicious × Sandow) × Ottawa 522 [Platt Melba × R6T68 (Jonathan × {Rome Beauty × *Malus floribunda* 821 sib.})]. Tested as Ottawa 652. Fruit: medium to large; skin bright yellow; flesh cream-colored to yellow, slightly coarse, tender, juicy; flavor low acid; only medium quality; processed fruit rated good for slices and fair for sauce; harvest date just after McIntosh; storage life short, 1-2 months at 2C. Tree: low to medium vigor; spreading; tendency to droop; yields low; some tendency to become biennial; some of fruits drop before ripe; blooms 1 day after McIntosh; resistant to apple scab, very susceptible to cedar apple rust and quince rust.

Chantecler (Belchard®). -Orig. in Angers, France, by Y. Lespinasse, J.M. Oliver, J. Lespinasse, and M. Le Lezec, Station d'Arboriculture Fruitiere, INRA. Assigned to Agri Obtentions, 78283 Guyancourt, France. Introduced to French growers in 1977. Golden Delicious × Reinette Clochard. Fruit: most nearly resembles Reinette Clochard; medium; conical globose; skin golden yellow with slight russetting; flesh cream-colored, medium firm; exceptional flavor. Ripens 3 weeks after Golden Delicious. Tree: vigor medium to strong; precocious; productive.

Chick-A-Dee McIntosh. -Orig. in Monmouth, Maine, as a whole-tree spur-type mutation of Rogers McIntosh in the Chick Orchard. Patented in 1984; assigned to Roaring Brook Nurseries, Monmouth, Maine. Spur-type habit persisted after topgrafting onto seedling rootstocks in 1980. Fruit: indistinguishable from McIntosh. Tree: compact, very spurry growth habit; crotch angles wider than Rogers McIntosh; very slow growing; has little or no need for pruning due to horizontal branching; original tree about half the size of adjacent Rogers McIntosh trees of the same age.

Cooper Granny Smith. -See Earlee Grannee.

Coromandel Red. -Disc. in 1972 in New Zealand as a chance seedling of unknown parentage by R. Knottenbelt on the Coromandel Peninsula. U.S. plant pat. applied for. Assigned to Carlton Plants, Dayton, Ore. Fruit: medium; 60% to 80% solid cherry red; flesh white, nonbrowning, very firm, crisp, juicy, flavor mildly subacid; starchy at harvest time; afterripening, quality very good; harvest 3-4 days before Granny Smith; promising late dessert apple. Tree: vigor moderate; spreading; heavy cropper; annual bearer; little or no preharvest drop; flowers late.

Daliguy Jonagold. -Orig. in France; discovered by the Davodeau Ligonniere Nursery. Plant pat. 6148, 12 Apr. 1988. A red-fruited mutation of Jonagold.

Dayton. -Orig. in Urbana, Ill., by the Purdue, Rutgers, and Illinois (PRI) cooperative breeding program. Introd. in 1987 by S.S. Korban, J. Janick, E.B. Williams, and F.H. Emerson. Plant pat. 5584, 3 Dec. 1985. Assigned to Newark Nurseries, Hartford, Mich. NJ 123249 × PRI1235-100; cross made in 1967. Pedigree includes Melba, Red Rome, Jonathan, Wealthy, Starr, Rome Beauty, and *Malus floribunda* 821. Selected in 1976; tested as Co-op 21; named in honor of retired breeder, D.F. Dayton. Fruit: medium-large, 75 mm diam.; roundish to slightly oblate; 90% of surface bright medium red; smooth, very glossy and attractive; flesh pale yellow, fine-grained, firm, crisp, juicy; flavor mildly subacid; quality very good; a summer dessert apple ripening 4 weeks before Delicious; in 1C storage retains quality up to 4 weeks. Tree: moderately upright and vigorous; field immune to apple scab; moderately resistant to powdery mildew and fire blight; fruits hang on the tree 2 weeks after ripe without losing firmness or dessert quality.

Dulcet. -Disc. by L. James Bailey, Wenatchee, Wash., about 1975; introd. in 1988; plant pat. applied for; assigned to Van Well Nursery. Parentage unknown. Fruit: medium, 70-75 mm; skin deep red with faint stripe and pronounced lenticels; shape round-conic; flesh creamy white, firm, crisp; flavor mildly sweet and aromatic; harvest date early September, 4 weeks before Delicious. Tree: vigorous, precocious, annual bearer; appears to be resistant to powdery mildew.

Earlee Grannee™ (Early Granny, Cooper Granny Smith). -Orig. near Brewster, Wash. by C.L. Cooper. Discovered as whole tree sport