



Wm. H. Prestele, fecit.

A. Hoen & Co., Lithocautic.

CHERRIES: *a*. BING; *b*. NAPOLEON.



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MERCER CHERRY.



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SOPHIE PLUM.



D. G. Passmore fecit.

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ELDORADO BLACKBERRY.



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PRIMUS, HYBRID BETWEEN RUBUS URSINUS AND R. CRATAEGIFOLIUS.



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HANNIBAL RASPBERRY.



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ROYAL CHURCH RASPBERRY.

Red Jacket (George S. Josselyn, Fredonia, N. Y.).—Fruit large, roundish or elongated; color reddish green, shading into solid red, quite transparent until fully ripe; skin rather tender; flesh light red, fine, pulpy, juicy, rich, fragrant; quality very good.

RASPBERRY (BLACK).

Babbitt (W. R. Laughlin, College Springs, Iowa).—A black cap of medium size specially commended for hardiness. Round, oblate, with drupes small and rather numerous, dull black, without bloom; moderately firm, juicy, subacid quality good. On plants of same age it this year yielded 50 per cent more than Hopkins. A strong vigorous grower, with a long ripening season.

Hannibal (Plate IX—W. J. Bradt, North Hannibal, N. Y.).—This berry was mentioned in the report for last year as "Extra Late." At our suggestion it has been named Hannibal. As the plate shows, it is a very large round black cap, with drupes rather regular and numerous. It is a fine berry of excellent quality, apparently vigorous and productive. Its chief value is in its late season of ripening, being several days later than Gregg.

RASPBERRY (PURPLE).

Colossal (I. F. Street, West Middleton, Ind.).—A seedling of Shaffer, very closely resembling its parent.

RASPBERRY (RED).

Cardinal (A. H. Griesa, Lawrence, Kans.).—A late red berry of medium size, very productive, and with a long ripening season.

King (Cleveland Nursery Co., Rio Vista, Va.).—Round, medium size, light crimson color; drupes large, few, with suture very plainly marked; moderately firm, juicy; flavor subacid; quality good. A seedling of Thompson ripening at about the same time, but larger and more productive.

Royal Church (Plate X—Royal Church, Harrisonville, Ohio).—This berry, mentioned last year, continues to promise well notwithstanding the unfavorable season in Ohio. It is a roundish crimson berry with large drupes, moderately firm and of excellent quality. The plant is a vigorous grower and is reported to be hardy in Ohio and New York.

STRAWBERRY.

California (H. T. Curtiss, Ridgely, Md.).—Large, long conical, sometimes compressed and coxcombed; calyx large, stem stout; color very deep crimson, glossy, with seeds little depressed; flesh bright crimson, firm, juicy; flavor subacid, pleasant; quality good. A valuable market berry for strong lands and narrow row culture. It was at one time thought to be Belmont, but is now regarded as distinct. It is a good pollinizer, blooming with Crescent.

Columbian (R. H. C. Mitchell, Fruitland, Tenn.).—A new berry from Tennessee, claimed to be earlier than Crystal City, and valuable as a market berry. The specimens received were large, broad conical, rather irregular berries of a light crimson color with seeds slightly depressed. Calyx medium size, smooth, bright green; stem stout; texture rather soft, about like Crescent; flavor subacid, pleasant.

Murray [*Imperfect*] (J. S. Westbrook, Faison, N. C.).—A North Carolina berry valued for its earliness and productiveness. A medium to large, broad conical berry, often compressed or double at the top. Size medium to large; light crimson; firm; rather sharp acid; quality medium; a good shipper.

Omega [*Imperfect*] (John Willcox, Bridgeton, N. J.).—Blunt conical, medium to large, with a deeply depressed calyx; slightly irregular, light crimson; flesh scarlet, moderately firm. Of fair quality. It is worth testing as a late berry.

TROPICAL AND SEMI-TROPICAL FRUITS.

KAKI.

Costata (Plate XI—G. L. Taber, Glen St. Mary, Fla.).—Medium size, conical, slightly four-sided, calyx considerably depressed and basal markings quite distinct; surface smooth, salmon yellow, rarely cracked; flesh yellow, with few seeds, astringent till ripe; late and keeps well. The tree is a strong upright grower, very distinct in form, with broad roundish leaves, making it also valuable as an ornament.

LOQUAT.

Giant [*Eriobotrya Japonica*] (Plate XII—Luther Burbank, Santa Rosa, Cal.).—This Japanese fruit, long grown in a small way in the Southern States under the name Japanese Medlar, or erroneously "Japanese Plum," is rarely seen in the Northern markets. In the cities of Florida and Louisiana it can now usually be found during the months of March, April, and May, and somewhat later and less abundant in the warmer parts of California. It is a small fruit somewhat resembling a yellow plum in appearance, but covered with a short fine down. It is borne in large terminal spikes on a dwarfish somewhat straggling tree with large oblong rugose evergreen leaves that are downy beneath. The fruit contains one or more large, smooth, brown seeds, and is of a delicious, slightly acid, flavor. It is marketed in small baskets like strawberries. Near New Orleans, La., and Jacksonville, Fla., its culture has been found exceedingly profitable on well-drained, moist, rich lands. It does not succeed so well in California owing to the damage done to the blossoms by frost, as it blooms in winter. The variety illustrated is the "Giant," regarded by the Japanese as the best they have. Its conduct in this country does not indicate that it is superior to many seedling trees in any essential point.

ORANGES.

Boone (C. A. Boone, Orlando, Fla.).—An early orange grown from seed secured from oranges bought from a foreign vessel at Tampa, thirty-five years ago. Valued for its earliness and good quality; fruit large, roundish, with a moderately smooth skin, slightly tinged with red and very thin; flesh tender, juicy, sprightly, quality good.

Higley Late (E. H. Hart, Federal Point, Fla.).—A late, medium-sized orange, rather dark in color. A good keeper and shipper, of fair quality.

Onoro (Lyman Phelps, Sanford, Fla.).—A light colored orange of medium size, thin skin, heavy juice, and brisk, sprightly flavor; quality excellent. Season early. A very good orange in December and continuing until April.

Tephi (Lyman Phelps, Sanford, Fla.).—Large, round, light orange in color, with a thin skin and delicious tender pulp. The name is from the Hebrew, signifying tender.

LEMON.

Agnes (F. A. Kimball, National City, Cal.).—Seedling grown by Mr. Kimball from seed taken from a lemon sent him by Mrs. Agnes Harris, wife of United States Senator John S. Harris, of Louisiana. The tree is nearly thornless and has very heavy foliage. Buds set in a lime root in 1881 produced before the end of the third year 1,060 marketable lemons. Fruit medium size, oblong, with a very large irregular oblique point. Acid sharp, pleasant. A promising variety with almost no seeds.

PROMISING WILD FRUITS.

Buffalo Berry [*Shepherdia argentea*] (Plate XIII—Agnes M. Johnson, Laurel, S. Dak.).—This wild fruit recently introduced to cultivation is worthy of attention in the cold northwest. It is perfectly hardy and exceedingly productive, the branches being thickly studded with the currant-like fruit. It is a shrub from 5 to 18 feet high, with cuneate oblong leaves, silvery on both sides, and holds its fruit well into the winter. The fruit is both red and yellow in color, with a single slender seed and agreeable acid pulp. It makes an excellent jelly and is delicious for dessert when dried with sugar. It is easily propagated from seeds, but being dioecious is better propagated by layers or suckers from pistillate individuals with a few staminate plants to insure the setting of the fruit.

PERSIMMON.

Marion (Samuel Miller, Bluffton, Mo.).—This native persimmon is a large handsome fruit with few seeds, ripening in October. The original tree was found growing near Fulton, Mo., on land owned by J. H. Marion and is said to have larger leaves and blossoms than the common persimmon. J. L. Normand, of Marksville, La., also sent two varieties, one very large, and one nearly seedless, that are promising.



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COSTATA, JAPANESE PERSIMMON (*DIOSPYROS KAKI*).



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GIANT LOQUAT (*ERIOBOTRYA JAPONICA*).



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BUFFALO BERRY (SHEPHERDIA ARGENTIA).



GRAY POCKET GOPHER, THOMOMYS TALPOIDES (Richardson.)

Trautmann, Bailey & Blampay, N.Y.



Trautmann, Bailey & Blumpey, N.Y.

RICHARDSON'S SPERMOPHILE, *SPERMOPHILUS RICHARDSONII* (Sabine.)



Trautmann, Bailey & Blampey, N.Y.

RED POCKET GOPHER, GEOMYS BURSARIUS (Shaw.)