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UNIVERSITY OF TENNESSEE

Agricultural Experiment Station

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VOL. X.

JANUARY, 1897.

No. 1.

APPLES OF TENNESSEE ORIGIN.

(SECOND REPORT).

Bulletins of this Station will be sent, upon application, free of charge,
to any Farmer in the State.

KNOXVILLE, TENNESSEE, U. S. A.

KNOXVILLE, TENN.

1897.

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OF THE UNIVERSITY OF TENNESSEE.

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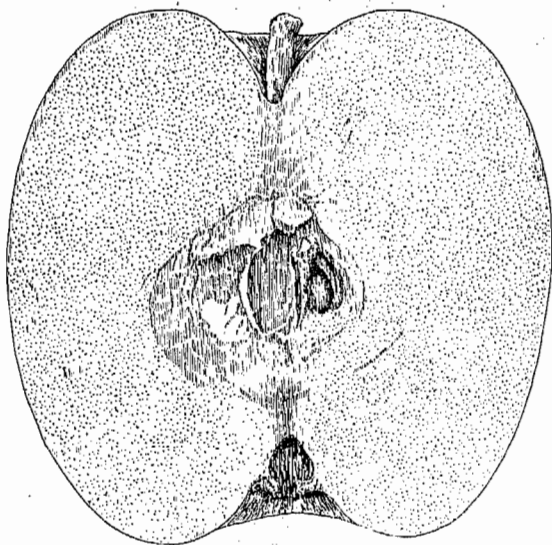
APPLES OF TENNESSEE ORIGIN. (Second Report.)

R. L. WATTS.

We will not repeat the introductory remarks to Bulletin Vol. IX, No. 1, on "Apples of Tennessee Origin," except to return thanks again to all who have contributed in any way to our study of seedling apples. Grateful acknowledgment is especially due Prof. H. E. VanDeman, and to Prof. S. B. Heiges, Pomologist of the United States Department of Agriculture.

ARCHIBALD.

Received from Archibald Knight, Valley Home, Hamblen County, Tenn.



ARCHIBALD.

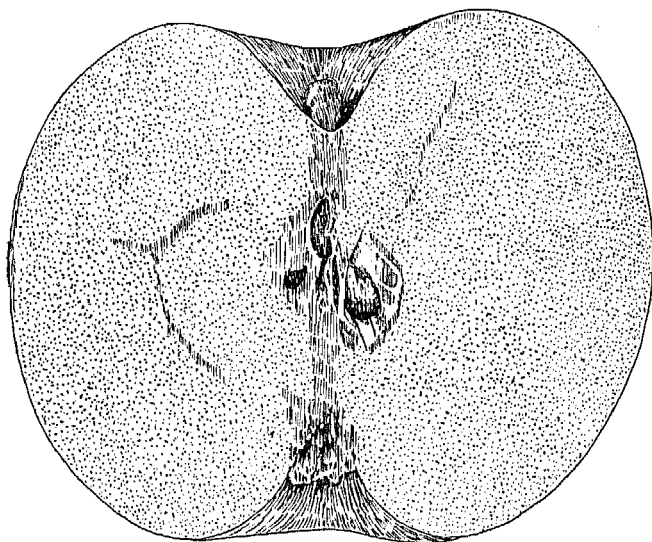
Fruit large, slightly oblong ; surface smooth ; color bright red and dark crimson, making the specimens exceedingly beautiful ; cavity regular, small, medium size, abrupt slope, marked with slight russet streaks ; stem short, stout ; basin fairly regular, medium size, abrupt slope, ribbed ; eye large, open ; sepals long narrow, reflexed. Skin thin, firm ; core roundish, rather large,

open ; seeds numerous, plump, small, light brown ; flesh white, very fine, tender, juicy, melting ; flavor sweet, very pleasant, rich ; quality very good. A highly valuable sweet apple. Beauty of specimens is especially striking. Assistant Pomologist Wm. A. Taylor, of the the United States Department of Agriculture, says concerning it : "A most excellent sweet apple in quality and very beautiful. It should certainly be named and disseminated."

Mr. Knight contributes the following notes concerning the origin and merits of this apple : The original tree stands on the Richard Thornhill farm, near Alpha, Hamblen County. It is supposed to be at least twenty-five years old. Its trunk is short, eighteen inches in diameter at two feet from the ground, the top spreading in form. It is very vigorous in growth, productive and comes into bearing earlier than most varieties. Fruit ripens during latter part of July and early in August. We consider it a superior sweet apple.

BURROW—Synonym, Giles Beauty.

Received from J. H. Burrow, Lynnvile, Giles County, Tenn.



BURROW.

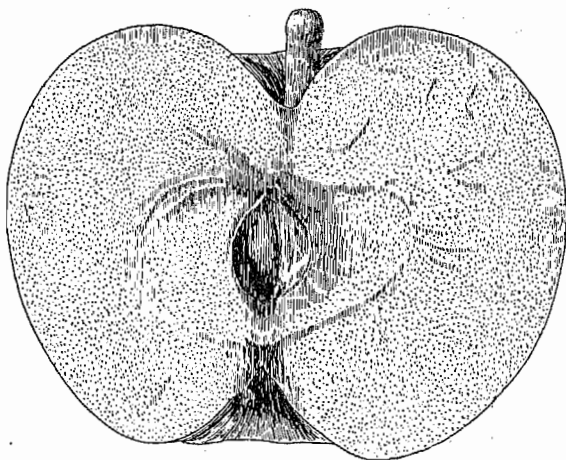
Fruit large, roundish, oblate ; surface inclined to be rough, not glossy, marbling of russet : dots numerous, large, gray and russet ; color yellow, striped and splashed with dull red over nearly entire surface ; cavity lipped, medium size and depth, abrupt, marked with russet ; stem short, rather stout ; basin wavy, medium size,

abrupt; eye open. Skin thick, firm; core conical, rather narrow, medium size, open; seeds plump, medium size, dark brown; flesh yellowish, rather coarse, tender, juicy; flavor subacid, pleasant, rich; quality very good.

Mr. Burrow gives the following facts concerning this variety: The fruit ripens about the first of October and may be kept until the first of January. This apple was originated in 1878. The trunk of the tree now measures fourteen inches in diameter. It is an upright, free grower, and bears every year. Specimens from the parent tree have taken dozens of prizes at exhibitions, receiving premium for the best plate displayed at the State fair held about 1890. Young trees which have been propagated from it produce specimens richer in color and better in quality than those from the parent tree.

CLAIBORNE—Synonyms, Brown, Benum, Benham, Yearry.

Received from Thos. G. Fulkerson, Tazewell, Claiborne County, Tenn.



CLAIBORNE.

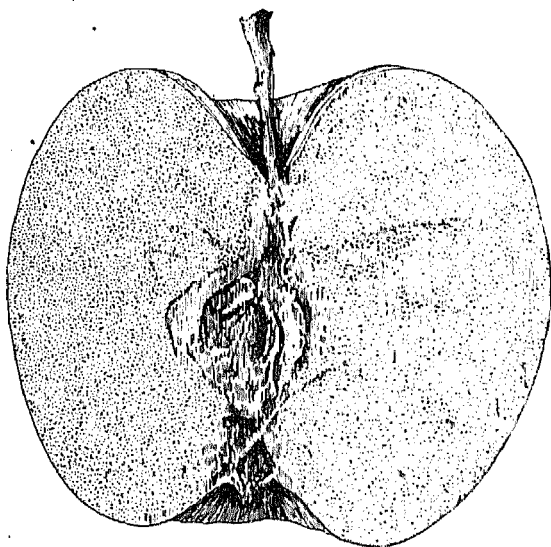
Fruit medium to large, roundish oblate, inclining to conical; surface smooth; color greenish yellow, striped and splashed with dull red; cavity regular, large, deep, abrupt slope, marked with light russet; stem short, stout; basin regular, large, deep, abrupt, plaited; eye small, partially closed; sepals short. Skin very thin, tender; core rather large, oval, open; seeds few, medium size,

dark brown; flesh yellowish, fine, firm, juicy; flavor sprightly subacid, rich, pleasant; quality good.

There is considerable uncertainty in regard to the origin of this apple. Mr. Fulkerson made a thorough investigation but was not able to decide definitely as to its origin. Many citizens of Claiborne County believe it was originated in that County, but there is a probability that it was first grown either in Virginia or Kentucky. It has been quite extensively propagated in Claiborne County, Tennessee; Lee County, Virginia, and Knox County, Kentucky. The tree is very vigorous in growth and exceedingly productive. Fruit begins to ripen about the first of July, sometimes earlier, and continues until the middle of August. It is valuable for culinary or dessert purposes.

COCHRAN.

Fruit medium to large, roundish oblong, flattened at ends; surface smooth; dots numerous, brown; color golden yellow, with a



COCHRAN.

dull light-red blush, making it striking and beautiful; cavity regular, large, deep, abrupt slope, marked with russet streaks; stem long, slender; basin regular, large, deep, slope abrupt, with a few furrows; eye medium size, partially closed; sepals short. Skin thin, firm; core small, roundish, open; seeds few, elongated, medium size, brown; flesh yellow, fine grained, tender; flavor subacid, rich, pleasant; quality good to very good.

Received from Samuel Dunlap, Friendsville, Blount County, Tenn. The Cochran apple is not strictly of Tennessee origin but has been brought to notice in this State and so far as we can ascertain, it is not known elsewhere. Mr. Dunlap furnishes the following information concerning the Cochran apple: It was brought from Burke County, North Carolina, by William Cochran about seventy-five years ago. The apple was propagated and disseminated in this county about fifty years ago. The fruit ripens about the first of July and will keep a month or two if stored in a cool place. It is valuable for cooking, evaporating or dessert use. Trees make a strong, vigorous growth and are very productive.

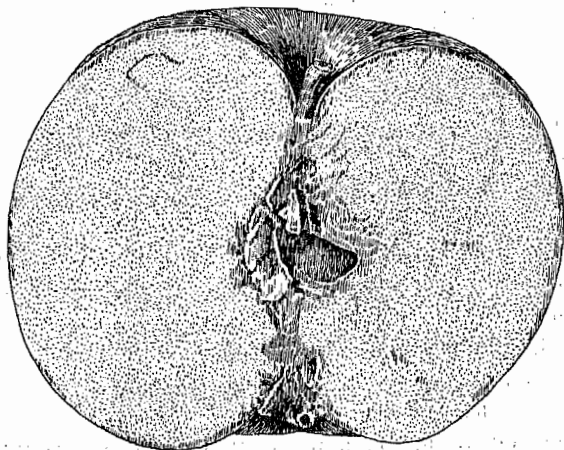
DOE.

Originated by S. H. Stepp, Dry Creek, Carter County, Tenn.

Fruit medium to large, oblate, oblique, irregular; surface smooth, with slight leather-crack markings; dots numerous, small, gray on green bases; color greenish yellow, blushed with red; cavity regular, very deep, abrupt; stem medium length, fairly stout; basin wide, slightly waved, slope abrupt, marked with leather-cracks; eye small, closed; skin rather thick, tough; core flat-conical, large, open; seeds few, elongated, plump, large, light brown; flesh pale yellow, fine grained, firm; flavor very mild subacid; quality very good. May prove valuable as a late fall variety.

FULKERSON.

Received from Thos. G. Fulkerson, Tazewell, Claiborne County, Tenn. Originated on the farm of Wm. Ford, Claiborne County.



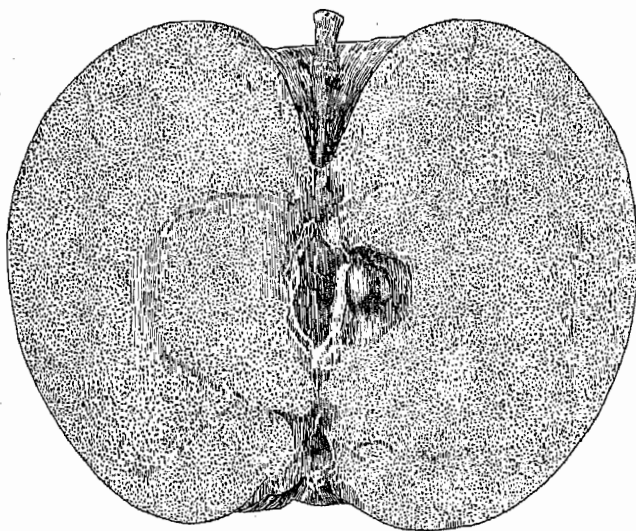
FULKERSON.

Fruit medium to small, flat, angular; surface rather rough; color greenish yellow, marbled with russet; dots very numerous, large,

russet; cavity quite regular, medium in size and depth, abrupt; stem short, stout; basin rather large, medium depth, gradual slope; eye small, nearly closed. Skin thick, tough; core small; seeds few, medium size; flesh yellowish, fine grained, firm, juicy; flavor sub-acid, rich; quality very good; a late winter apple. Promising as a late dessert variety.

GARST.

Received from Prof. T. C. Garst, Blizzard, Washington County, Tenn.



GARST.

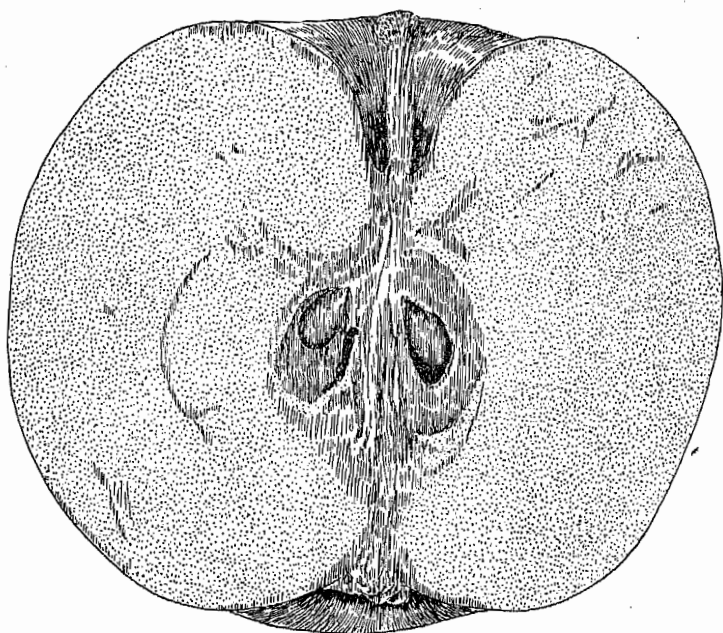
Fruit large, roundish oblate; surface smooth, rather angular, glossy; color light yellow, nearly entire surface washed and shaded with light and dark red; cavity decidedly irregular, large, deep, abrupt, marked with slight russet; stem rather long, slender; basin irregular, large, deep, gradual slope, marked with deep furrows; eye medium size, nearly closed; sepals converging, broad at base. Skin rather thick, tough; core medium size, roundish, open; seeds numerous, short, medium size, dark brown; flesh yellowish, stained red next to skin, medium fine grained, tender, juicy; flavor sub-acid, sprightly, pleasant; quality very good. Apple is very beautiful in color and would command ready sale for dessert purposes.

Prof. Garst writes that there is no doubt the tree originated on the farm he occupies, and that the tree is probably ten to twelve

years old. Only a few trees have been propagated from the original one, but there is a growing demand for cions of this variety. It is a very vigorous grower, producing a spreading top. The trees fruit annually and bear heavy crops. Fruit begins to ripen about June twentieth.

GOIN.

Received from Thos. G. Fulkerson, Tazewell, Tenn. Originated on the farm of Ely Goin, Goin, Claiborne County, Tenn.



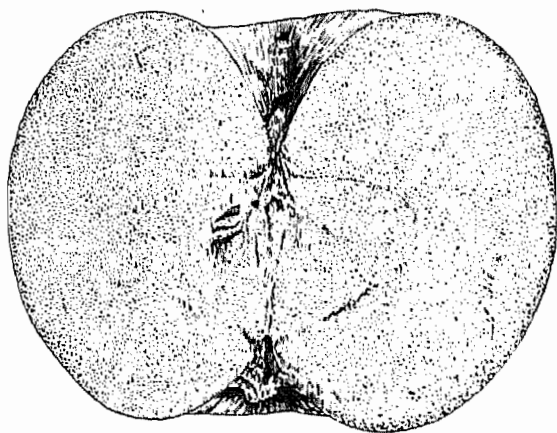
GOIN.

Fruit large, roundish oblate, cross section irregular or wavy; surface smooth, regular; dots large, light gray; color yellow, nearly covered with purplish but not brilliant red, marked with distinct stripes; cavity regular, large, deep, slope abrupt, marked with russet; stem medium length, slender; basin regular, small, shallow; eye small, closed; sepals short. Skin thick, tough; core oblate, large, open; seeds medium size, short, plump, dark brown, numerous; flesh yellow, fine grained, tender; flavor subacid to acid, tart, pleasant; quality very good. Reported a late winter variety. It has been propagated to some extent in the vicinity of its origin and is considered very valuable by all who have grown it.

HARPOLE—Synonym, Sweet Limbertwig.

Received from M. M. Harpole, Summitville, Coffee County, Tenn. Said to have originated in Grundy County, Tenn.

Fruit above medium, oblate, slightly conic; surface rendered rather rough by small russet patches; dots conspicuous, yellow, some indented; color yellow, washed over the entire surface with crimson and indistinctly striped dark red, with a thin overspread of gray; cavity wide, large, deep, gradual slope, marked with heavy



HARPOLE.

russet; stem medium length, slender; basin regular, medium in size and depth, gradual slope, marked with russet netting; eye large, open; sepals wide, short, converging. Skin thick, tough; core conical, clasping, medium size, nearly closed; seeds numerous, plump, large, brown; flesh greenish yellow, medium fine grained, tender, juicy; flavor sweet, rich; quality very good. Pronounced an excellent early winter apple.

The fruit begins to ripen in September and has been preserved until January and even later in some instances. Mr. Harpole reports that it bears heavy crops every other year and commands a ready sale. The exact location of the origin of this apple is not known, but the oldest citizens in the vicinity of Summitville report that they have been acquainted with the apple since boyhood, and believe it was originated in the northeast corner of Middle Tennessee or probably over the Kentucky line.

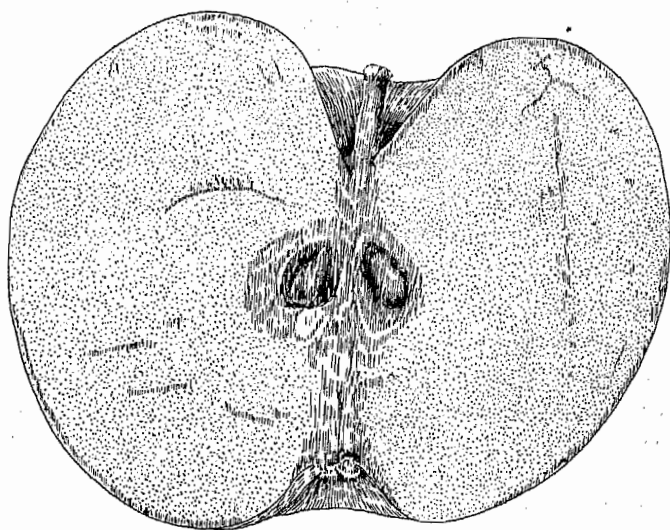
HYDER.

Originated by S. H. Stepp, Dry Creek, Carter County, Tenn.

Fruit large, oblate, inclining to conical; surface irregular, with a few large russet dots; ground yellow, almost covered with rich red mixed and striped; cavity regular, wide, medium in depth, slope almost straight, marked with russet; stem medium length, rather slender; basin wavy, large, deep, slope abrupt; calyx rather large; sepals short, reflexed; eye closed. Skin thick, firm; core oblate, rather large, open; seeds few, medium size, elongated, light brown; flesh yellow, rather coarse, tender, quite dry; flavor mild, rich, subacid; quality very good. Worthy of trial for fall use.

LETOREY.

Received from Thos. G. Fulkerson, Tazewell, Claiborne County, Tenn. Originated on the farm of Wm. Ford, Goin, Claiborne County.



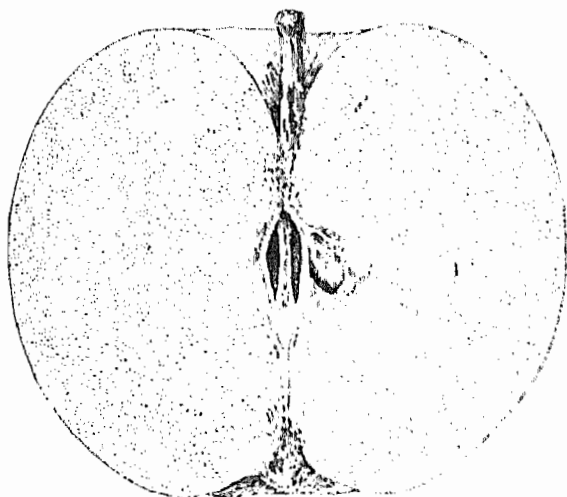
LETOREY.

Fruit above medium size, oblate, cross section pentangular; surface smooth, with few minute russet dots; color almost solid dull red over a yellow ground, with very small indistinct stripes; cavity wavy, large, deep, marked with slight russet; stem short, stout; basin wavy, deep, broad; sepals small, short; eye closed. Skin thin; core wide, oblate, large, open; seeds numerous, plump,

large, dark brown; flesh yellow, fine grained, juicy; flavor subacid, rich. Quality very good. Especially promising as a late-keeping winter variety. The excellent quality and handsome appearance render it valuable for market purposes.

MALONEY—Synonym, Rosedale Pippin.

Received from I. Keicher, Conkling, Washington County, Tenn.



MALONEY.

Fruit above medium, roundish, oblate; surface smooth; dots conspicuous, yellow, indented; color yellow, washed, striped and splashed with dark crimson; cavity regular, large, deep, gradual slope, marked with russet netting; stem medium length, rather stout; basin regular, shallow, below medium size, furrowed; eye medium size, closed or partially open; sepals medium width and length, converging or reflexed. Skin thick, tough; core medium size, open; seeds numerous, plump, small, brown; flesh yellowish, rather fine grained, tender, juicy; flavor subacid, rich; quality good to very good. A valuable autumn variety.

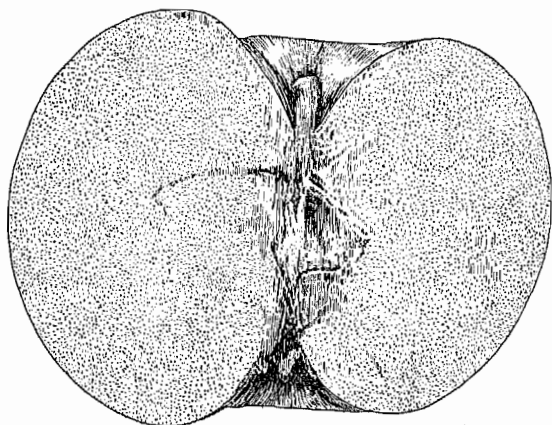
The tree is about twenty-six years old and has made a vigorous upright growth. It is very productive. Fruit ripens in October and may be preserved until the first of March.

McCord—Synonym, Arlington Queen.

Originated in Giles County, probably as early as 1815. Received from J. E. Abernathy, Ocellus, Giles County, Tenn.

Fruit large, oblate; surface smooth; dots small, brown; color greenish white, red streaks sometimes on stem end; cavity regular, large, medium depth, abrupt slope; stem short, stout; basin regular, large, abrupt slope, rather deep; eye open, large; sepals broad, reflexed. Skin thin, firm; core roundish, medium size, slightly open; flesh fine grained, tender, juicy; flavor subacid, sprightly, rich, pleasant; quality very good.

Mr. Abernathy contributes the following information concerning this variety: The originator of Arlington Queen is unknown,



McCord.

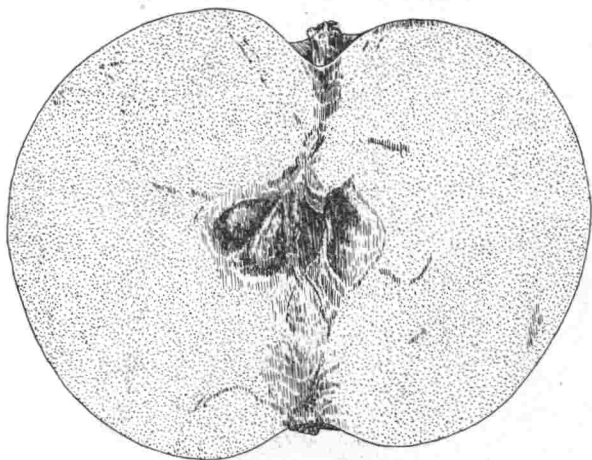
but must have been one of the first settlers, and probably planted the tree as early as 1815. The original tree has been dead over thirty years. I first saw it in 1853, and it was then old and very large, the trunk being at least two feet in diameter. The tree stood in an old seedling orchard that must have been established forty years previous to the above date. A few trees propagated from the parent tree in 1853 by myself are living but declining. I gave it the name, "Arlington Queen." It is probably a seedling of Buckingham or Fall Queen, as that apple was introduced here at an early day. The apple is generally larger than Fall Queen and not so highly colored, but it has a much better flavor and I consider it superior to that variety for general culture. The trees

are very vigorous in growth, upright, very productive, but rather slow to come into bearing. It is now propagated in several nurseries. The fruit begins to ripen about the first of September, continuing until the middle of October. Fruit is valuable for cooking and dessert use.

McMURRY.

Received from J. A. Foreman, Green Brier, Robertson County, Tenn.

Fruit medium size, roundish oblate, inclining to conical; surface smooth; color light yellow, nearly entirely washed, striped and splashed with dark and light red; dots small, numerous; cavity



McMURRY.

regular, medium size, broad, rather shallow, marked with light russet; stem short, stout, with downy covering; basin regular, broad, shallow, gradual slope; eye medium size, closed; sepals short, converging. Skin thin, firm; core oval, rather large, open; seeds few, elongated, medium size, brown; flesh nearly white, fine grained, tender, juicy; flavor mild, subacid; quality good. A very handsome apple.

Mr. Foreman writes that this variety came into notice about fifty years ago. The original tree stands on the Clark or McMurry farm, near the center of Robertson County. Its trunk measures eighteen inches in diameter, the top upright. It is very productive. Fruit begins to ripen about the first of July and continues until the first of August. About one hundred trees have been propagated from the original one.

NULL.

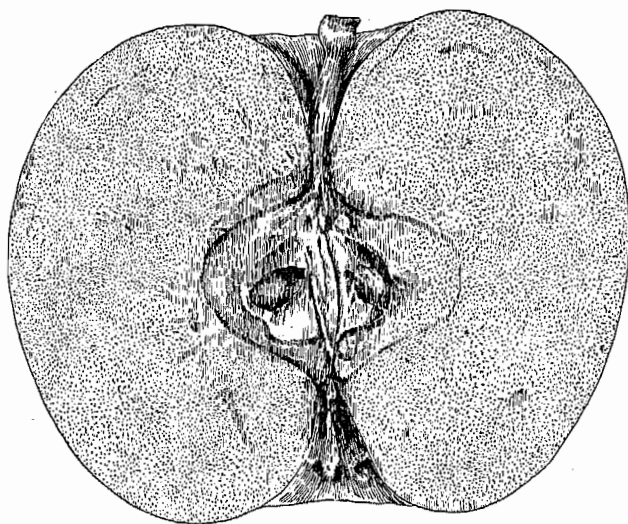
Received from John M. Null, McKenzie, Carroll County, Tenn.

Fruit very large, roundish oblate; surface smooth; color greenish yellow, with dull red on exposed side; cavity regular, large deep, abrupt slope, marked with heavy russet; stem long, stout; basin regular, large, deep, abrupt; eye medium size, partially open. Skin thin, firm; core oval, medium size; flesh yellowish, fine grained; juicy; flavor mild subacid, pleasant; quality good.

Originated in Carroll County over fifty years ago. The original tree is alive, from which propagation has been effected by means of sprouts. Fruit ripens from the middle of July until the middle of August and is valuable for cooking, drying or dessert purposes.

OOSTANAULA—Synonym, White Sweet.

Received from I. F. Fisher, Apison, James County, Tenn. Originated on a farm near Apison.



OOSTANAULA.

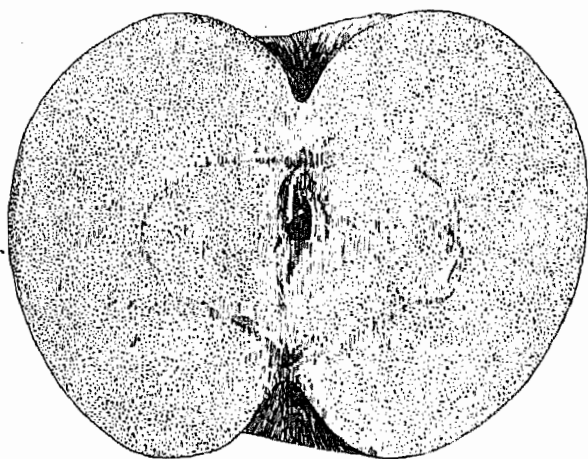
Fruit medium to large, roundish oblate; surface smooth, glossy, with some fine russet markings on basin end; dots light, with green bases; color greenish yellow, with a suggestion of blush on the exposed side; cavity regular, large, deep, abrupt, marked with russet netting; stem medium length, rather stout; basin regular, large, deep, abrupt, russet markings; eye large, open; sepals short, wide, erect or slightly reflexed. Skin thin, tenacious; core conical,

clasping the eye, small, nearly closed; seeds numerous, plump, small, brown; flesh yellowish satiny, medium fine grained, tender, moderately juicy; flavor sweet, rich; quality good to very good.

Pomologist S. B. Heiges says, "this handsome and good apple ought to be better known." The tree was first found in the center of a twenty acre field near Apison, Tenn., in 1886. Mr. Fisher reports the trunk to be eight inches in diameter at two feet from the ground. The tree is a vigorous grower, making a well proportioned spreading top and bears heavy crops. The fruit ripens during July and August and is valuable for cooking, drying or dessert purposes.

RHEA.

Originated on the farm of J. D. Ellis, Dayton, Rhea County, Tenn., about fifty years ago.



RHEA.

Fruit medium size, roundish conical; surface smooth; dots few, russet; color yellow, striped and washed with red, green around cavity and extending out over base; cavity irregular, medium size, medium depth, abrupt; stem short, rather slender; basin regular, quite broad, medium depth, gradual slope, slightly corrugated; eye medium size, open; sepals erect. Skin thin, leathery; core oval, clasping the eye, medium size, open; seeds medium size, plump, pointed, brown; flesh white, tender, juicy; flavor mild, pleasant, subacid; quality good to very good.

Mr. J. D. Ellis states that the trunk is fourteen to sixteen inches in diameter at two feet from the ground. The tree is a vigorous grower, makes a spreading top, and is very productive. Since Mr. Ellis has lived on his farm it has borne twelve successive crops, producing a few specimens in 1894 when practically all the fruit buds in the neighborhood were destroyed by the severe March freeze. The fruit ripens from the middle of August to the first of September, and is considered an excellent summer or early fall variety. It is valuable for cooking or dessert use. Captain John P. Walker is said to be the originator.

SWADLEY—Synonym, Red Pippin.

Received from D. C. Swadley, Johnson, City, Tenn.

Fruit medium size, roundish oblate; surface moderately smooth, there being some leather cracking and rough russet dots; dots conspicuous, many with dark centers; color yellow, washed red, splashed and striped dark crimson; cavity wide, large, deep, slope gradual, marked with russet; stem medium length, quite stout; basin regular, large, deep, slope gradual, marked with leather cracking; eye large, open or partially closed; calyx segments medium length, converging or reflexed at the point. Skin thick, tough; core wide, clasping, nearly closed; seeds quite numerous, plump, medium size, dark brown; flesh yellow, medium fine, tender, juicy; flavor subacid, rich; quality very good. A promising autumn variety.