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Agricultural Experiment Station

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ORCHARD NOTES.

By C. F AUSTIN.

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ORCHARD NOTES.

The season of 1901 was in many respects a favorable one for Alabama fruit-growers. The very mild preceding winter had left the trees in excellent condition. Some of the earlier blooming plums escaped the frost and bore a good crop. The crop of fruit in the Experiment Station orchard was not as large as that of the preceding year; but it must be stated that the crop secured during 1900 was unusually large. The spring of 1901 was very late, wet and cold, and, therefore, prevented in many varieties a normal setting of fruit. As a result of the late spring the earlier varieties fruited from one to two weeks later than usual.

The young apple orchard planted in the years 1897 and 1900 continues to be very promising. Nearly every variety made a strong, vigorous growth during the past season. The method of treatment was the same as outlined in Bulletin 112, and has proven satisfactory. Some of the varieties planted in 1897 bore their first fruit this season.

Observations as to the prevalence of apple leaf rust (*Roestelia*) showed that the following varieties were affected:

Aikin, slightly.
Babbitt, slightly.
Battyani, slightly.
Buncomb, slightly.
Bledsoe, slightly.
Bradford, slightly.

Benoni, slightly. Cillagos, slightly. Cannon Pearmain, slightly. Carolina Greening, very badly. Cooper's Red, slightly. Carter's Blue, very baldy. Chattahooche, very badly. Dam, slightly. Early Harvest, slightly. Elgin Pippin, slightly. Equinettelee, badly. Family, very badly. Grime's Golden, slightly. Hands, slightly. Homing, slightly. Haygood, very badly. Jeffries' Everbearing, slightly. Jonathan, very badly. Julian, badly. Keeskemet, slightly. Moultries, badly. Mangum, badly. Marvina, badly. Nickajack, very badly. Mavarack Sweet, slightly. Oszi-vaj, slightly. Pear (or Palmer), slightly. Red Limbertwig, slightly. Rawls Janeton, slightly. Red June, badly. Rome Beauty, very badly. Red Beitigheimer, slightly. Rodes Orange, very badly. Sekula, slightly. Summer Wafer, slightly.

Shockley, very badly.

Senator, very badly.

Santa, badly.

Sweet Bough, slightly.

Thornton's Seedling, slightly.

Taunton, slightly.

Texas Red, slightly.

Walalyfi, badly.

Yellow English, slightly.

Yopp's Favorite, very badly.

Yellow Horse, slightly.

York Imperial, slightly.

The following varieties were free from rust this season:

Apple of Commerce.

Arkansas Black.

Buda Summer.

Black Ben Davis.

Champion.

Cooper's Early.

Epir.

Fanny.

Fall Pippin.

Garvenstein.

Hyari Piros.

Hershall Cox.

Hew's Crab.

Jennings.

Kennard's Choice.

Maggar.

Metell.

Mammoth Black Twig.

Maiden Blush.

Noble Savor.

Pasman.

Ponjik.

Red Astrachan.

Early Red Margaret.

Sabadka.

Summer Queen.

Saxon Priest.

Selymes.

Summer Cheese.

Shackleford.

Tuscaloosa Seedling.

Winesap.

Yakor.

Yates.

Early Red Margaret, Sabadka, Winesap, and Yakor which showed rust last year, escaped this, and, in addition to those affected last year, there are thirty-four more varieties affected this season. A greater number of the Hungarian varieties were affected this year than last year. Resistant varieties have for the past few seasons been giving a good deal of promise, but this season so many more varieties were affected than usual, that it is probable we have no varieties in our orchard that are perfectly resistant to the disease.

Spraying to Prevent Rust.—To determine if very thorough spraying with Bordeaux mixture would have any effect upon the rust, one tree of each variety was selected and kept very carefully sprayed from early spring until late in the fall. The Bordeaux mixture was used at the rate of six pounds of copper sulphate and six pounds fresh lime to fifty gallons of water.

The varieties selected for this spraying experiment were affected during the season of 1900 as follows:

Carter's Blue, slightly.

Cooper's Red, moderately.

Dam, slightly.
Early Red Marguerite, badly.
Family, very badly.
Hames, slightly.
Horse, moderately.
Jonathon, very badly.
Red June, slightly.
Santa, badly.
Senator, badly.
Shockley, badly.
Thornton's Seedling, slightly.
Winesap, slightly.
Yakor, slightly.

The trees were very carefully sprayed on the following dates during the season: March 24th, before growth started; April 25th, May 4th and 22nd, June 5th and 20th, July 23rd, August 9th and 28th.

On October 10th the trees were examined and the following notes taken showing the relative amount of rust on the sprayed trees. The trees at this time were heavily covered with the Bordeaux mixture:

Carter's Blue, badly.
Cooper's Red, badly.
Dam, slightly.
Early Red Marguerite, very badly.
Hames, slightly.
Horse, moderately.
Red June, slightly.
Jonathon, very badly.
Santa, very badly.
Senator, very badly.
Shockley, very badly.
Thornton's Seedling, slightly.
Winesap, slightly.
Yakor, slightly.

This seems to indicate that spraying with Bordeaux mixture has no effect upon the disease. Some of the varieties were even more affected this season than last. In reviewing the work of the past few seasons, it may be said that the rust is gradually increasing throughout the orchard. At present there are but few varieties that have not been at least slightly affected with the rust. While many of the varieties have not been affected so as to show reduced growth, many others have received a very serious setback from this cause.

The Green Aphis of Apples.—This insect has been very troublesome this season, and spread upon many varieties not attacked before.

The following varieties have been more or less affected:

Aikin, badly.

Apple of Commerce, very badly.

Battyani, badly.

Black Ben Davis, very badly.

Bledsoe, slightly.

Benoni, slightly.

Carolina Green, badly.

Cooper's Red, badly.

Cooper's Early, badly.

Early Harvest, slightly.

Elgin Pippin, badly.

Epir, very badly.

Family, badly.

Garvenstein, slightly.

Horse, very badly.

Jeffries' Everbearing, very badly.

Jennings, slightly.

Mammoth Black Twig, very badly.

Moultries, very badly. Mangum, very badly. Mamma, slightly. Noble Savor, badly. Nickajack, slightly. Mavarack Sweet, slightly. Os-zi-vaj, badly. Pear (or Palmer), badly. Red Limbertwig, badly. Rawls Janeton, very badly. Red Beitigheimer, very badly. Red Margaret, slightly. Summer Queen, very badly. Saxon Priest, badly. Shockley, slightly. Senator, very badly. Summer Cheese, slightly. Sweet Bough, badly. Shackleford, badly. Texas Red, slightly. Tuscaloosa Seedling, slightly. Winesap, badly. Wealthy, slightly. Yellow English, badly. Yakor, slightly.

This agrees to some extent with last year's report. There were sixteen varieties attacked this season that were not last, and thirteen varieties that were attacked last year that are free this. As in the case of the rust, the varieties that are resistant to the attack of the insects are becoming fewer every year. The indications are that there are no varieties that we can say are perfectly resistant to the attacks of this insect.

List of Hardy Varieties.—The following have been free from rust, aphis, and leaf spot for the past three

seasons: Hyari Piros, Magyur, Maiden Blush, Metell, and Ponyike. There were eight hardy varieties last year and only five this. Three of the American varieties—Aikin, Babbitt and York Imperial—were slightly attacked with rust. Of the varieties that are not in the above list, but that have made a satisfactory growth, and are in good condition this fall are the following:

Aikin. Jennings.
Arkansas Black. Keeskemet.

Babbitt. Kinnard's Choice.

Battyan. Limbertwig.
Buncomb. Mavarack Sweet.
Bradford. Red Astrachan.
Bledsoe. Summer Wafer.

Carter's Blue. Selymes. Champion. Yakor.

Epir. York Imperial.

Elgin Pippin. Wilalyfi.

Gravenstein.

The following varieties fruited for the first time this season: Bledsoe, Champion, Red Limbertwig, Thornton's Seedling, and Whalve.

The work with the bearing orchard has been along the line of spraying with Bordeaux mixture as a preventative against summer rot* and other diseases that cause the decay of fruit before maturity. As the first test along the line it was decided to keep the orchard very thoroughly sprayed from early spring until the fruit was ripe. The orchard was sprayed nine times

^{*}We use the term summer rot to denote all the kinds of rot as a class. The one rot very noticeable this season was what is known as black rot (Sphæropsis malorum).

during the summer at the following dates: March 27th, before growth started; April 8th and 25th, May 22nd, June 5th and 22nd, August 9th and 28th. Paris green was used, after the blossoms had fallen, at the rate of eight ounces to fifty gallons of the mixture, which was the same as that used in spraying for apple rust. Carewas taken to cover the whole tree very thoroughly, and especially the fruit.

Notes on Varieties.—The varieties that were practically free from rot are: Early Harvest, Hames, Hews' Virginia, Hiley's Eureka, Hubersham Late, Prior's Red, Red June, Summer Red, Thornton's Seedling, Shockley, Stephens' Winter, Winesap.

Varieties only slightly affected by the rot: Ben Davis, Golden Pippin, Horn, Kellageskee, Limbertwig, Red Astrachan, Rome Beauty, Rawls' Janeton, Shannon Pippin, Terry's Winter, Yopp's Favorite.

Varieties which rotted badly: American Golden Russett, Cannon Pearmain, Elgin Pippin, Red Limbertwig, Yellow English.

The growing of apples is a very difficult problem so far South, and without spraying a greater per cent. of the apples are more or less rotten before they are ripe. The orchard was an old one, and has had very little treatment. It was full of all kinds of diseases and insects that had flourished at will.

The work of the fruit season seems to point to the conclusion that by careful selection of varieties, good cultivation, and thorough spraying, good clean apples can be grown here from June until early winter. The old trees this season have made a good, strong, healthy growth.

CHERRIES.

In the spring of 1898 eleven of the leading varieties of cherries were planted. All of the trees of three of the varieties have died. Several more are making a struggle for existence. Four of the varieties have made a good strong growth and seem to be fairly hardy in this climate. They are: Deyhouse, Governor Wood, Ostheimer, and Suda. These varieties all bloomed full and gave promise of a heavy fruitage this season, but when the fruit was about half grown the bulk of it dropped off. Whether this peculiarity is due to the climatic conditions or to the trees not being old enough can not at present be determined.

Although cherries can not be recommended for general planting they should be in the list of the home garden for the northern half of the State.

Varieties.	No. of trees set 1898.	No. of trees alive 1901.	General condition in the fall 1901.
Abbasse	2	1	Fairly strong and vigorous.
Black Tartarian	2	1	Weak and growth poor.
Dyehouse	1	1	Vigorous and strong with a good growth
Early Richmond	1	0	
English Morello	1	0	
Governor Wood.	2	1	Vigorous, good healthy growth.
Mont. O. King.	2	2	Fairly vigorous, growth small.
Napolean	1	0	
Ostheimer	2	2	Strong and vigorous with a good growth
Suda	2	2	Strong and vigorous with a good growth.
Wragg	2	2	Vigorous, fair growth.

JAPAN WALNUTS.

Trees were set in 1896. They fruited for the first time this season. The nuts are of medium size, borne in large clusters, from six to twelve; shell is a little thicker than that of the English walnut, which they resemble to some extent. The meat is sweet and of good quality, the tree bears early and is a very rapid grower. It makes a handsome tree, having leaves of immense-

size. It should be included in the list for home planting throughout the State.

PEACHES.

The peach orchard has done well this season, for while the crop has not been large, nearly all varieties have borne some fruit. A coöperative experimental orchard was planted in 1898, at the request of a committee of the Association of Agricultural Colleges and Experiment Stations, for the testing of the geographical limits of the successful cultivation of the different races of peaches. The test consisted of three varieties of three trees each, of the five races of peaches. The orchard bore a good crop this season, and it is now possible to form some idea of their value.

Alexander.—An old standard sort. Medium, greenish, white, covered with red; flesh white, firm, juicy, sweet; clingstone. Season first to the middle of June; tree vigorous and productive. A leading early market sort.

Mt. Rose.—Medium to large, white, with red cheek; flesh quite firm, juicy, rich, sweet; freestone; a leading market variety; ripens from the first to the middle of July. Tree vigorous and usually quite productive.

Old Mixon.—This is another old variety. Medium to large, yellowish white, with red cheek; flesh white, very rich and juicy; freestone; a good shipper, and well known upon the market. Season from the middle to the last of July.

PEENTO RACE.

Varities—PEENTO, WALDROW, and ANGEL. The varietieth of this race bloom so early that the blossoms are all killed by the frost. See table of blooming period.

NORTH CHINA RACE.

Chinese Cling.—Large, globular, pale yellow; flesh very firm, sweet, rich; a close clingstone; a fine sont for pickling; season first to the middle of July. Tree vigorous and quite productive.

Elberta.—Large to very large, round oval, pale yellow unless fully ripe; flesh pale yellow, firm, rich, juicy, slightly acid; freestone; ripens last of July to first of August. Tree strong, vigorous and very productive. The leading market variety for the South.

Mammie Ross.—Large, round, white, with red cheek, and small red specks over the surface; flesh white, streaked with red under the skin; tender, juicy, sweet; clingstone; season first to the middle of July. Tree vigorous and productive. A promising new variety.

SOUTH CHINA RACE.

Pallas.—Medium, roundish, greenish yellow, with some red over the surface; flesh very white, sweet, rich; freestone; a promising variety for home use and local market; season middle of July. Tree vigorous and very productive. The best variety of the race.

Tabor.—Medium, roundish oblong, pointed, covered with red; flesh white, sweet, juicy; clingstone. Tree vigorous and fairly productive; ripens the last of July.

Honey.—Small, yellowish white, oval, slightly flattened, terminating in a prominent point; flesh very white, sweet, tender, juicy; freestone; season first of July. Trees are fairly vigorous and quite productive.

SPANISH RACE.

Imperial.—Medium to large, roundish oblong, greenish yellow, covered with reddish spots over the surface; flesh white, tender, juicy, sweet; freestone; season last of July. Tree vigorous and quite productive.

Onderkonk.—Small to medium, pale yellow, flesh yellowish, tender, juicy, good; freestone; ripens about the first of August. Tree vigorous and productive.

Cable's Indian.—Small, roundish, dull grayish red; flesh firm, reddish; clingstone; season first of August. Tree vigorous and productive.

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Varieties.	Jan. 22.	Feb. 20.	Feb. 24.	March 4.	March 15.	March 26.	April 1.	April 6.
,				PERSIAN	RACE.			
Alexander		,				buds show- ing pink	full bloom	blossoms falling
Mount'in Rose				buds swollen	first blooms.	full bloom		
Old Mixon				buds swollen	first blooms.	full bloom		
				PEENTO	RACE.			
Peento	buds show- ing pink.	blooms fallen			Blossoms	all killed by	the frost.	
Waldrow		buds show- ing pink	blooming		Blossoms	all killed by	the frost.	
Angel			buds show- ing pink .	full bloom	Blossoms	all killed by	the frost.	
				NORTH CH	INA RACE.	all killed by	the frost.	
Chinese Cling.					buds pink	full bloom	blossoms falling.	

The varieties of the Peento race bloom so early that they have no value outside the orange belt. The trees of the South China and Spanish races are strong, vigorous growers, and very productive. Many varieties of these races are suitable for the southern half of the State and coast region for home use and local market. As yet neither race contains any varieties that will compete with the leading market sorts of the Persian or North China races. A variety of peaches containing the vigor and productiveness of the trees of the South China and Spanish races, with the size, color, appearance and general market qualities of the Persian and North China races would be a valuable addition to Southern peach growing.

NOTES ON OTHER VARIETIES OF PEACHES.

Carmen —Large, nearly round, white with red cheek; flesh firm, white, rich, juicy, slightly acid; nearly free; season first to middle of July. Tree vigorous and productive. A promising variety for general planting.

Early Crawford.—An old standard variety; large, oblong oval, rich yellow with a red cheek; flesh yellow, firm, rich, slightly acid; season middle to last of July. Tree vigorous and usually productive. Under favorable conditions this is one of the leading commercial varieties. It wants a rich heavy soil to do its best, for upon poor land it is a shy bearer.

Grey.—Medium to large, rather long and flattened, with a prominent point at the end; skin very smooth, pale yellow, slightly sprinkled with red; flesh thick, firm, rich, sweet; freestone. Tree vigorous and quite productive. It seems to be a promising variety.

Hale's Early.—Medium to large, roundish, greenish white, nearly covered with red; flesh firm, good; cling-

stone; season middle of July. Tree vigorous and very productive. This is an old market sort, its greatest drawback is its tendency to rot at harvest time.

Matthew's Beauty.—Large, roundish, yellow; flesh thick, firm, rich, sweet; freestone; season middle to last of August. Tree vigorous and fairly productive. This variety follows Elberta and is a promising late sort.

McKinney. — Medium to large, yellowish with red cheek; flesh white, firm, juicy, sweet; clingstone; season middle to last of June. Tree a strong grower and fairly productive; a promising new variety.

Stump.—Medium to large, round with red cheek; flesh thick, firm, sweet, juicy; freestone; season first of August; tree strong, vigorous and productive. An old sort, but still one of the best white varieties in its season; a good keeper and shipper.

Ovido.—Small to medium, roundish oblong with prominent point at the end, greenish yellow with red cheek; flesh greenish white, tender, juicy and sweet; freestone. Tree a strong grower and very productive.

Sneed.—Medium, roundish oval, white with red cheek; flesh greenish white, juicy; clingstone; season last of May. Tree strong, vigorous and productive. The earliest peach yet produced.

Triumph.—Medium, yellow, nearly covered with red; flesh yellowish, tender, juicy, good; nearly free; season first to middle of June. Tree vigorous and productive; an excellent early peach and a good shipper.

Victoria.—Small to medium, nearly round, pale yellow; flesh pale yellow, sweet, juicy; freestone; season first of August. Tree a good grower and quite productive.

LIST OF VARIETIES FOR GENERAL PLANTING IN THE STATE.

As a short list including some of the best market sorts, we would suggest the following, given in the order of ripening: Sneed, Triumph, Carmen, Mammie Ross, Mountain Rose, Chinese Cling, Elberta, Stump, Matthew's Beauty. For a longer list for home use and local market take the above list and add to it Alexander, McKinney, Hale's Early, Early Crawford, Grey, Pallas, Tabor, Imperial. The last four varieties are suitable only for the southern half of the State and coast region.

Notes on the Blooming of Peaches.

Varieties.	March 4.	March 15	March 26.	April 1.	April 6.
Carmen	buds swelling.	buds opening.	full bloom.	blossoms falling.	
Early Crawford		first blooms.	full bloom.	blossoms falling.	
Grey	buds swelling.	first blooms.	full bloom.	blossoms falling.	
Hale's Early		buds pink.	first blooms.		full bloom.
Marks		buds pink.	full bloom.		
Matthew's Beauty		first blooms.	$\begin{array}{c} \text{full} \\ \underline{ \text{bloom.}} \end{array}$	blossoms falling.	
McKinney		buds pink.	first blooms.	full bloom.	blossoms falling.
Stump		first blooms.	full <u>*bloom</u> .	blossoms falling.	
Ovido	buds opening.	full bloom.	blossoms fall en.		
Reeves	buds swelling.	first bloom.	full bloom.	blossoms falling.	
Sneed	buds swollen	buds opening.	full bloom.	blossoms fallen.	
Triumph	<u> </u>	buds swollen.	blooming	full bloom.	blossoms fallen.
Victoria		blooming	blossoms fallen.		

PLUMS.

The season has not been a very favorable one for plums. The varieties have fruited very unevenly. This is probably due to the excessive crop of 1900, which left the trees in poor condition. The hailstorm of May 13th did a considerable damage by the hailstones marking the surface of the fruit so as to give it a poor appearance. On account of the freedom from late frost this spring, we were able to get some fruit from the very early blossoming sorts. We give a table of notes on the blossoming period, and general condition of crop, and another tabulation showing the number of trees of each variety, that were set in 1896, the number of trees that have died from 1896 to the fall of 1901, and the number of trees alive at present, with a note as to their general condition.

During the present season a large number of trees have died from some unaccountable cause. For one to have a successful plum orchard, a setting of trees must be made every year. So that as fast as one orchard gives out another will be coming on to take its place. (For description of plums and varieties for planting see Bulletin No. 112.)

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Varieties.	March 4.	March 9.	March 15.	March 26.	April 6.	April 11.	Condition of crop in 1901.
Abundance, Berger, Botan and Yellow Fleshed Botan.		buds showing white.		full bloom.			About one-half crop.
Burbank	buds show- ing white.	buds opening.	full bloom	fallen			Very light.
Blood No. 4	buds opening.						Good.
Berckman's		buds opening.		falling			Light.
Chabot, Babcock, Bailey's Japan, Hattankio, Mun- son, or Yellow Japan		buds opening.	full bloom	fallen			Light.
Chas. Downing			buds swelling.	buds opening.	nearly full bloom.	blossoms falling.	Full.
Emerson	buds opening.	full bloom.	falling				Full.

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Varieties.	March 4.	March 9.	March 15.	March 26.	April 6.	April 11.	Condition of crop in 1901.
Excelsior		huds opening.	full bloom	fallen			Very good.
Earliest of All	,		buds swelling.		full bloom		Failure.
Golden Beauty			buds swelling		blooming	blossoms falling.	Very full.
Gold		buds opening.	blooming	fallen			Fair.
Hale		buds opening.	blooming	fallen			Failure.
Hawkeye					buds swelling.	blooming	Good.
Kelsey	buds opening.	blooming	falling				Light.
Kurr		buds white.	buds opening.				Very good.
Lone Star		buds white.	full bloom	fallen			Failure.

Notes on the Blooming of Plums in 1901.—Cont'd.

Varieties.	March 4.	March 9.	March 15.	March 26.	April 6.	April 11.	Condition of crop in 1901.
Long Fruited				buds opening.		falling	Failure.
Maru					buds opening	full bloom.	Failure.
Normand		buds opening.	blooming	falling			Very full.
Milton			buds opening.		full bloom		Fair.
Orient		buds opening.	blooming	falling			Tree died before ripening crop.
Pres. Wilder			buds opening.	blooming	full bloom		Light.
Red Nagate			buds opening.		blossoms falling.		Full.
Rockford					buds opening.	blooming	Failure.
Satsuma	buds opening.	blooming	blossoms falling.		,	. ;	Good.

Notes on the Blooming of Plums in 1901.—Cont'd.

Varieties	March 4.	March 9.	March 15.	March 26.	April 6	April 11.	Condition of crop in 1901.
Transparent		buds opening.	blooming	$box{blossoms}{falling}.$			Very full.
Willard		 		buds opening.	blooming	blossoms falling.	Failure.
Wickson	buds opening.	blooming.	blossoms falling.				Light
Whitaker				buds opening.	blooming	blossoms fallen.	Good.
Wayland			buds opening	blooming.	full bloom	blossoms fallen.	Failure.
Wooten			buds opening.	blooming	full bloom	blossoms falling.	Fu]l.
Wild Goose			buds white.	buds opening	blooming	blossoms fallen.	Full.
Yosebe		1	buds white.	buds opening.	blooming	blossoms falling.	Light.

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Notes on the General Condition of the Orchard.

Varieties. JAPANESE TYPE.	Trees set 1896.	Trees alive 1901.	Died from 1896 to 1901.	General condition of trees.
Abundance, Berger, Botan, Yellow Fleshed Botan	8	7	1	Strong, vigorous, good growth.
Berckmans	2	1	2	In good growing condition.
Burbank	4	2	2	Poor growth, trees dying.
Blood No. 3	2	0	2	
Blood No. 4	2	2	0	Making a good growth.
Chabot, Babcock, Baily, Hattankio, Munson, Yellow Japan	11	4	7	The few trees left are in good condition.
Hale	3	3	. 0	Very strong and vigorous.
Kelsey	2	1	1.	Tree in fair condition.
K err	3	2	1	Quite strong and vigorous.
Long Fruited	2	0	2	
Maru	2	0	2	

Notes on the General Condition of the Orchard.—Cont'd'.

Varieties.	Trees set 1896.	Trees alive 1901.	Died from 1896 to 1901.	General condition of trees.
Normand	2	2	0	Trees in good condition.
Orient	2	0	2	
Red June, Red Nagate	5	3	2	Strong and healthy trees.
Satsuma	2	1	1	Last tree slowly dying.
Willard	2	0	2	
Yosebe	1	1	0	In very good condition.
Totals AMERICAN TYPE,	55	29	26	
Hawkeye	2	0	2	
Rockford	2	1	1	Making a struggle to live
Weaver	2	0	2	
Wyant.	2	0	2	
$egin{array}{c} ext{Totals} \ ext{WILD GOOSE} \ ext{TY}PE. \end{array}$	8	1	7	
Charles Downing.	2	1	1	Making good growth.

Notes on the General Condition of the Orchard .- Cont'd.

Varieties	Trees set 1896.	Trees alive 1901.	Died from 1896 to 1901.	General condition of trees.
Milton	2	2	0	In good condition.
Miner	2	0	2	
President Wilder.	2	1	1	Making good, strong growth.
Whitaker	2	1	1	Making fair growth.
Wild Goose	2	1	1	Growth very poor.
Wooten	2	2	0	Small growth.
Totals WAYLAND TYPE.	14	8	6	
Golden Beauty	2	2	0	Very strong and vigorous.
Wayland	2	1	1	Last tree nearly dead.
Totals CHICASAW TYPE.	4	3	1	
Emerson	2	2	0	Making a steady growth.
Lone Star	2	2	0	Only a fair growth.
Transparent	1	1	0	Vigorous growth.

Notes on the General Condition of the Orchard.—Cont'd.

Varieties.	Trees set 1896.	Trees alive 1901.	Died from 1896 to 1901.	General condition of trees.
Totals	5	5	0	
HYBRID PLUMS				
Gold	2	2	0	Making good, strong growth.
Excelsior	2	2	0	Vigorous and strong.
Wickson	2	1	1	Making very poor growth.