



EXPERIMENT STATION
 OF THE
 KANSAS STATE AGRICULTURAL COLLEGE,
 MANHATTAN.

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DEPARTMENT OF HORTICULTURE AND ENTOMOLOGY.

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A COMPARISON OF VARIETIES OF THE STRAWBERRY,

The strawberry plantation on the grounds of the Station includes, among others, the 71 sorts reported upon below. The plants were set in 1890, most of the varieties having been purchased of T. T. Lyon, of the Michigan sub-station at South Haven, a few being received from other sources for testing here.

The varieties have been treated uniformly alike, so far as possible, both in situation and culture. The soil in which they grow is a deep, rich loam, moderately moist, and lying flat along the foot of a slope toward the east. Above this, on the edge of the slope, is a water pipe connected with the main supplying the college with water from the Manhattan city water works. By means of taps at proper intervals, it is possible, when necessary, to irrigate the strawberry beds in a satisfactory manner, though this advantage has been made use of only when the rainfall has proven inadequate for the health of the plants, and not to force them to a growth unusual in this climate.

The plants are set according to the requirements of the matted-row system of cultivation, the space of twenty-five feet being allotted to each sort in the row. As the runners grew, they were allowed to occupy the row-space to the width of about eighteen inches, those growing outside of this space being cut off from time to time. Clean cultivation without manure was the treatment for all alike, with a mulch of clean straw in winter, to a depth sufficient to protect the roots of the plants from the alternating freezing and thawing of our open winters.

In the descriptive list here following, the intention is to give with some completeness the impression gained by us of the habit of the sorts after the trial of the past two seasons. The relative productiveness, the length of season, the date of the first ripe fruit, and the comparative susceptibility to "rust" are made the subjects of the graphic tables that will be found at the end of the descriptive list. As these tables place the varieties in the order of their value, judged separately in the several points named, their position will answer the question "Which is best?" in this or that regard.

DESCRIPTIVE LIST.

ALPHA. Vigorous in growth, with dark-green leaves of medium size; fairly prolific, berries of medium size, becoming very small towards the end of the season; round, quite smooth, of bright, pleasing appearance and of fairly good flavor. Desirable for its earliness, being third on the list to ripen.

ARNOLD'S PRIDE. Of strong growth, with light-colored leaves, affected considerably with leaf-spot, or "rust"; somewhat above medium in productiveness and size of fruit; berries roundish-conic, of bright color, fairly firm, and of good quality. Ripened the first of June and continued till the 20th, though quite small at the last.

BELMONT. Plants vigorous, with large, healthy leaves; a productive sort, the berries somewhat uneven in shape, and often with green tips; the best are large, long-conic, deep red, of moderately firm texture, and of good quality. Season, June 1st to 20th.

BIDWELL. This variety, with strong, healthy plants, and its large, light-colored leaves, set what promised to be a fine crop of fruit, but many of the berries proved rough, and they ripened unevenly; typical berries are long-conic, with a neck; the texture firm, but the juice rather sour.

BLACK DEFIANCE. Plants of moderate vigor, the leaves small, dark green; fruit flattened, dark red, of fine flavor. The light yield makes this sort of little value, though it is one of the earliest to ripen.

BOMBA. The plants of this are of fair vigor, but were somewhat injured by leaf-spot. The yield, however, was abundant, and the shining, dark-red color, the even form, the firmness and fine flavor of the berries, make this a desirable sort either for home use or for the market. The first berries were ripe May 29th, and fair fruit was gathered up to the middle of June.

BUBACH No. 5. Of this sort the plants are hardy, the foliage coarse and dark green, the yield heavy, the berries large, showy, irregular, often much flattened or coxcombed, fairly firm, but not of fine flavor. It is one of the most profitable market sorts.

BURT. Plants of moderate vigor, with small, dark green leaves, and badly affected with leaf-spot. The yield was good, but the round, bright-red berries are too small to command a ready market.

CAPTAIN JACK. The plants of this much resemble those of the Burt, and are about as susceptible to the leaf-spot. The fruit, which was produced in abundance, is of size below medium, and uneven, inclined to the coxcomb form, of firm flesh, but in quality sour and unpleasant.

CHARLES DOWNING. The plants of this, though of rank growth and with large, light-green leaves, were much injured by the leaf-spot, and gave a light yield of roundish, smooth, light-colored berries, of medium size, but of fine flavor.

CHENEY. Plants of moderate vigor, somewhat affected by leaf-spot. Berries broadly conic, of good size, firm, and of fine quality, but the yield too light to make the sort one of value.

CORNELIA. Plants of this sort were much injured by leaf-spot, and at best of but moderate vigor. The berries are uneven in size, some quite large, broadly heart-shaped, pale red, rather soft, of good quality, and produced in moderate quantity.

COVELL. The vigor and health of the plant is the only point in favor of this variety. The fruit began to ripen on June 20, but the very light yield renders the sort of no profit. The berries are rounded, dark red, small in size, becoming very small late in the season, and only of fair quality.

CRESCENT. Of this well-known sort the plants are vigorous, and show but a moderate amount of leaf-spot. The yield was heavy, but of unsatisfactory quality; the earlier berries of fair size, but soft, and often hollow, the later pickings being more firm, but decreasing in size of the berry too rapidly toward the end of the season.

CLOUD. Leaves small or medium, dark green, and much diseased. Yield light; first berries of fair size, regular, broadly conic, deep red, firm, and sour. As the season advanced, the deterioration was rapid, both in quantity and in quality.

CUMBERLAND. Plants vigorous, with broad, dark-green leaves. The yield good, fruit large and handsome, berries broadly oblate, smooth, pale red, rather soft, and only fair in quality. The season continued from May 28 to June 20.

DEW. The plants of this were the most rank and coarse in growth of the list, and made few runners. The berries were very large, coxcomb or fan-shaped, coarse in appearance and flavor, and showing many green tips. The first two boxes gathered contained but 20 berries each. The yield was light, and the season late.

DUNCAN. The plants of strong growth, but much injured by leaf-spot. Berries rounded, obtusely pointed, pale red, fairly firm, moderate in quality, large at first, but falling off rapidly in size after the first picking.

ELLA. Fairly vigorous, the leaves of medium size, light colored ; berries of moderate size, smooth, broadly conic and necked, light red, of handsome appearance and fine flavor, but too soft to bear handling. Though the second to ripen, it produced for so short a season that the total yield was small. Profitable, if at all, for home use only.

FAIRY. Plants of moderate vigor; much spotted. Fruit of fair size, but very soft; color pale pink, but becoming dull soon after picking; flavor insipid; yield light. A sort of no value.

FLORENCE. Plants of fair vigor; foliage small, much spotted; season long, but the yield light; berries fine in appearance, large, broadly conic, somewhat irregular, medium in quality and firmness.

GALCERON. Leaves small and narrow, much spotted; yield moderate; berries of good size, but uneven and irregular in form, usually broadly conic, firm, and of good quality.

GANDY. Plants very strong and vigorous; leaves large and of good color. The latest to ripen in our list, and of value on this account, though disappointing in yield. In the early pickings, the berries are large to medium in size, round-conic, bright red, firm, and of good quality.

GARRETSON. Of moderate vigor in growth, but much injured by leaf-spot. Berries of large size, roundish or oblate, covered with a fine pubescence, color dull brick-red and very unattractive; texture firm, but the flavor sour and poor.

EUREKA. Growth moderately vigorous; leaves of medium size and showing a strong tendency to rust. Berries uneven and irregular, the earlier specimens of good size, broad, heart-shaped, deeply furrowed and lobed; in quality and appearance only fair; yield moderate.

GLENDALE. Plants of fair strength and vigor; foliage low, dark green; yield light; berries of fair size, long-conic, of good color, firm-fleshed, and of good quality.

GOLDSMITH. This variety gave a very small yield of fine fruit; the berries long-conic, necked, dark red, firm, and of fine flavor.

GIPSY. The plants are small leaved, and set a large number of runners, but are the most seriously injured by leaf-spot of the entire collection. While they bloomed very freely, the plants set practically no fruit, and must evidently find their value, if they have any, under conditions widely different from those of this locality.

HAVERLAND. Of quite vigorous growth, and with large leaves. Injured but little by the rust. Berries large, irregularly conic, deep red, moderately firm, and of good flavor; inclined to ripen unevenly and to show green tips. A fairly productive sort.

HENDERSON. Plants vigorous, producing few runners; leaves very large,

broad, obtuse; berries broadly conic, with long neck, deep red, fairly firm, and of the best flavor. Yield of the season very light.

INDIANA. Plants of fair vigor and health, but they gave a very small yield of uneven fruit of medium quality.

ITASCA. Plants vigorous, but showing considerable spot; berries of medium or small size, roundish or broadly conic, fairly firm, and of good flavor. Yield, half a crop.

JESSIE. Plants remarkably vigorous but showing some leaf-spot: berries of uneven size, but some very fine; broadly heart-shaped, bright, clear red, fairly firm, and of moderate quality; most of the berries inferior in size and shape, and the total product light.

KENTUCKY. Fairly vigorous in growth but susceptible to the leaf-spot. Berries of fair size, conic or flattened, bright red, and of fine appearance, firm, and of good quality. Yield too light for profit.

LADY RUSK. Plants quite vigorous; leaves small, dark green; berries often of good size but uneven and irregular, general form broadly conic, often hollow, dark red in color, of fairly firm flesh, the flavor rather inferior. Yield fair, but the quality far from satisfactory.

LIDA. This variety lacks vigor, and is much affected by leaf-spot. The berries are of large size, irregularly conic, with broad, flattened apex, fine, deep red, firm, and of good quality; the calyx hard to remove. The product was about half that of the variety giving the largest yield.

LOGAN. Plants of medium vigor and health. Berries large, heart-shaped, of fine appearance and excellent flavor, produced in abundance at first, but the season for this sort is so short that the total product was light.

LOUISE. Somewhat lacking in vigor; berries of fine size, broadly conic, firm, and of fine color and flavor; product too light for profit.

MAGGIE. Plants deficient in vigor and health; berries of middle size, irregular, often flattened or fan-shaped, pale red, firm, but only fair in quality. The fruits became quite small as the season advanced, and the yield was moderate.

MAMMOTH. Plants of feeble growth, and subject to leaf-spot. The yield light; some fruits large, but rough and uneven, and of fair quality only.

MANCHESTER. Plants vigorous, but subject to leaf-spot; the leaves small, dark colored; berries of fine size, rounded or obtusely pointed, of handsome appearance and of good flavor, but rather soft. The yield light, and many berries small.

MARTHA. Plants vigorous and healthy; leaves of middle size, on short petioles, very dark green; berries at first large, flattened, deeply furrowed, and rough; later fruit smoother and smaller, but all of poor flavor, and at best scarcely salable.

MAY KING. Plants vigorous and but little affected by the leaf-spot. Berries large at first, obtusely conic, smooth and regular, color light red, flesh fairly firm and of fine flavor; later fruit small and of inferior quality.

MINER. Plants vigorous, but showing considerable leaf-spot. Berries small, round, dark colored; yield light. A sort of little value.

MONMOUTH. Plants lacking in vigor and much spotted; yield very light; some berries of good size, but rough and uneven.

MOORE'S PROLIFIC. Growth strong and foliage healthy; berries of fine size and appearance, broadly conic, somewhat furrowed, fairly firm, of good quality; product very light.

MOUNT VERNON. Of vigorous growth, the leaves of medium size, dark green, somewhat spotted; berries of fair size and bright color, smooth, roundish, of medium firmness and quality. Yield light and season late.

MRS. CLEVELAND. Plants vigorous, with large, coarse leaves, showing a small amount of leaf-spot; berries of uneven size, some large and handsome, often flattened or fan-shaped, soft, pale red, of only moderate quality; yield rather light.

NEW DOMINION. Lacking in vigor and much diseased; berries uneven, roundish or oblate, soft, and of poor quality; yield very small.

NICANOR. Deficient in vigor, leaves small, stems short, berries small and borne close to the ground, quality poor, and yield small.

NORMAN. Plants weak in habit, leaves small, low, badly diseased; berries uneven, some fine, but the most small and poor; yield very small.

OHIO. Plants fine and vigorous in growth, but showing a tendency to spot; leaves small or medium in size, dark green; berries moderate in size and quality; yield light.

ONTARIO. Of strong, rather coarse growth, with a small amount of spot; berries often of fine size but very uneven; yield too light to be of value.

PARRY. Plants vigorous but somewhat injured by leafspot; many berries set, but after two or three pickings they were small and worthless; first fruits large, of fine appearance, conic, obtusely pointed, pale red, rather sour, and lacking firmness; yield light.

PEARL. Plants feeble and unhealthy; yield very light; a few berries of fine size and appearance, broadly conic, of fine flavor but rather soft fleshed.

PHELPS. Vigorous and healthy; foliage coarse, dark; some berries of fine size and of good quality, but the yield very light.

PIPER. Plants vigorous but somewhat diseased; berries of fair size, broadly fan-shaped, rough and furrowed, color dark, texture coarse, firm without, but hollow and soft within; flavor poor and yield small.

PRESIDENT. Plants unhealthy and lacking vigor; leaves rather small, dark; berries of moderate size, heart-shaped, somewhat flattened, deep red, fairly firm, of poor flavor; yield too light for profit.

SETH BOYDEN. Plants strong, leaves rather large and coarse, badly injured by leaf-spot; berries of good size, roundish or broadly conic, deeply furrowed, of medium firmness and fair flavor; yield very light.

SHARPLESS. Strong-growing, healthy plants, with coarse leaves, berries of large size, some very fine, many uneven and rough, form oblong fan-shaped or flattened conic, flesh rather soft, of good quality; yield light.

SHUSTER'S GEM. Plants of fair vigor, showing some injury from leaf-spot; leaves medium to large, rather light-colored; berries very large, broadly heart-shaped, much furrowed, of bright red color, very attractive in appearance, but too soft to ship, and decidedly wanting in flavor. Owing to rainy weather and the softness of the fruit, much of the product of this variety spoiled before it could be gathered, but it doubtless ripened more large-sized fruits than any other sort in the collection.

SUMMIT. Plants lacking in vigor and badly diseased; leaves medium to large, dark colored; a light yield of fine fruit; the berries large, smooth, broadly conic, light red, rather soft, of good quality; later pickings small.

TRIOMPHE DE GAND. Plants of this old sort were found to be decidedly lacking in vigor and were badly diseased. The yield was small and the fruit uneven and inferior; commendable in flavor only.

UNNAMED (Little). An unnamed variety, placed with us for trial. The plants showed a lack of vigor, and the fruit gave little warrant, either in yield, appearance, or quality, for its introduction.

VAN DEMAN. Plants vigorous, somewhat injured by leaf-spot; berries of fine size and attractive appearance, broadly conic, smooth, shining, dark red, very firm, and of excellent quality; one of the most desirable berries of the collection, but of medium productiveness only.

VICK. Plants of fair vigor, somewhat injured by spot; berries of fair size, roundish, obtusely pointed, dark red, unusually firm, and of excellent flavor; yield light.

WARFIELD NO. 2. The plants of this sort were remarkably vigorous, and showed little injury by leaf-spot; the berries of good size, somewhat irregular, obtusely pointed, color deep red, appearance fine, flesh moderately firm, of rather sour and not especially fine flavor. One of the most productive, and of long season, but the fruit rather small after the first pickings.

WINDSOR CHIEF. Plants lack in vigor and health; some berries of good size and fine appearance, but as a whole rather uneven; color dark red, flesh fairly firm, rather sour; yield light, extended over a long season.

WONDERFUL. Plants of fair vigor and health, the leaves of middle size, nearly round; berries round, smooth, pale red, fairly firm, and of good quality; fruit of fine size but the yield small.

WOODRUFF. Of medium vigor and badly diseased; berries of fair size, but flattened, branched and furrowed into the most grotesque forms; color dark red, flesh mealy, quality inferior. While later fruits improved somewhat in form and quality, none were first rate. The yield was only moderate,

WILSON. This variety has shown little of its old-time vigor and productiveness; the foliage was badly injured by leaf spot, and the yield of fruit was light and of inferior quality.

TABLE I—CONCLUDED.

VARIETY.	May.										June.																			
	30	29	28	27	26	25	24	23	22	21	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Jessie																														
Louise																														
Mammoth																														
Martha																														
Monmouth																														
Mount Vernon																														
New Dominion																														
Piper																														
Sharpless																														
Summit																														
Triomphe de Gand																														
Unnamed (Little)																														
Vick																														
Woodruff																														
Manchester																														
Moore's Prolific																														
Cornelia																														
Dew																														
Indiana																														
Kentucky																														
Ohio																														
Ontario																														
Gandy																														

TABLE II.

GIVING CHARACTER OF FLOWERS, DATES OF BLOSSOMING AND RIPENING, AND (IN COLUMNS 5-11) VALUE, ON A SCALE OF 10, IN THE QUALITIES NAMED. THE VALUES IN THE LAST THREE COLUMNS ARE ESTIMATED.

VARIETY.	Flowers..... (P. - B. - Biserial)	Date of first bloom.	Date of first ripe fruit.	Date of last picking.	Vigor.....	Healthiness.....	Productiveness.....	Size.....	Appearance.....	Firmness.....	Flavor.....
Alpha	B	April 29	May 25	June 15	9	7	5	7	7	6	6
Arnold's Pride	B	April 27	June 1	June 20	9	6	6	6	8	7	8
Belmont	B	April 30	June 1	June 20	9	9	8	7	8	8	8
Bidwell	B	April 25	May 29	June 15	9	9	8	9	8	9	9
Black Defiance	B	April 30	May 26	June 11	7	10	9	9	8	9	9
Bomba	B	April 29	May 27	June 15	8	8	8	8	8	8	7
Bubach No. 5	P	April 30	May 29	June 15	9	9	10	10	8	8	7
Burt	B	April 30	May 29	June 20	9	8	8	4	5	9	6
Capt. Jack	B	April 30	June 1	June 20	9	6	10	5	7	9	8
Charles Downing	B	April 27	May 29	June 15	9	4	4	4	7	8	8
Cheney	B	April 29	June 1	June 11	7	6	6	7	7	8	8
Cornelia	P	May 4	June 6	June 20	8	8	8	6	8	7	8
Covell	B	April 29	May 20	June 11	9	9	4	3	6	6	6
Crescent	B	April 29	May 27	June 15	9	8	10	5	8	6	7
Cumberland	B	April 29	May 29	June 20	9	8	6	10	9	7	8
Cloud	B	May 4	May 29	June 11	9	7	2	5	8	8	7
Duncan	B	April 30	June 1	June 15	9	7	6	7	8	8	7
Ella	B	April 25	May 24	June 1	8	8	6	6	9	9	9
Dew	B	May 4	June 6	June 15	10	8	6	10	7	9	6
Fairy	P	April 29	June 3	June 11	8	5	2	7	5	7	7
Florence	B	April 30	June 1	June 20	8	7	4	8	7	8	7
Galceon	B	May 1	June 1	June 20	8	7	5	8	8	8	8
Gandy	B	May 9	June 10	June 20	10	8	4	9	8	9	8
Garretson	P	May 1	June 3	June 20	8	6	6	9	8	8	5
Eureka	P	May 1	June 3	June 20	7	7	5	8	4	7	7

TABLE II—CONCLUDED.

VARIETY.	Flower's (P—petalate) (B—bisexual)	Date of first bloom.	Date of first ripe fruit.	Date of last picking.	Vigor	Healthiness	Productiveness	Size	Appearance	Firmness	Flavor
Glendale.....	B	May 2	June 3	June 20	8	7	4	7	7	9	8
Goldsmith.....	B	April 30	June 1	June 11	8	7	1	9	8	8	9
Gipsy.....	B	April 29	.....	.....	.....	.....	.....	.....	.....	.....	.....
Haverland.....	B	April 30	June 1	June 13	10	9	7	7	9	8	7
Henderson.....	B	April 30	June 1	June 11	10	9	7	1	7	6	7
Indiana.....	B	May 1	June 6	June 13	8	8	8	5	6	6	7
Itasca.....	B	April 29	June 1	June 15	8	7	5	5	9	8	7
Jessie.....	B	April 30	June 3	June 13	10	8	3	3	8	7	7
Kentucky.....	B	May 1	June 6	June 13	8	6	4	7	9	8	8
Lady Rusk.....	B	April 27	June 1	June 13	8	6	7	8	6	7	6
Lida.....	P	April 30	June 1	June 13	6	7	5	9	8	8	8
Logan.....	B	April 30	May 29	June 6	7	7	5	10	9	9	8
Louise.....	B	April 30	June 3	June 13	6	8	5	9	9	8	9
Maggie.....	B	April 27	May 29	June 13	6	6	6	7	6	8	7
Mammoth.....	B	April 30	June 3	June 20	5	7	1	9	6	7	7
Manchester.....	P	May 1	June 4	June 20	8	6	3	9	9	7	8
Martha.....	B	April 30	June 3	June 13	7	8	7	9	5	7	5
May King.....	B	April 30	May 29	June 13	8	9	4	8	7	7	8
Miner.....	B	April 30	June 1	June 13	8	7	4	5	6	6	7
Monmouth.....	B	May 4	June 3	June 20	4	7	2	9	6	7	7
Moore's Prolific.....	B	May 4	June 4	June 12	9	8	2	9	8	7	9
Mount Vernon.....	B	April 30	June 3	June 20	8	7	5	9	8	7	8
Mrs. Cleveland.....	P	April 30	June 1	June 13	8	7	7	9	6	6	7
New Dominion.....	B	April 30	June 3	June 13	7	5	3	5	7	6	6
Nicanor.....	B	April 24	June 1	June 13	6	7	1	1	7	5	5
Norman.....	B	April 27	June 1	.....	6	5	1	7	5	6	6
Ohio.....	P	May 1	June 6	June 13	8	7	3	7	7	7	7
Ontario.....	B	April 30	June 6	June 13	8	8	2	9	7	7	7
Parry.....	B	April 29	June 1	June 13	8	7	3	10	7	6	8
Pearl.....	B	April 30	June 1	June 8	6	7	1	9	7	7	9
Phelps.....	B	April 27	June 1	June 7	8	8	1	9	6	7	8
Piper.....	B	April 27	June 3	June 13	8	7	4	8	6	7	5
President.....	B	April 27	May 26	June 13	6	5	2	6	7	8	6
Seth Boyden.....	B	April 29	May 29	June 3	8	6	1	9	7	7	7
Sharpless.....	B	May 4	June 3	June 13	9	8	3	10	8	7	8
Shuster's Gem.....	P	April 30	May 27	June 13	7	7	10	9	9	5	4
Summit.....	P	May 4	June 3	June 13	6	5	1	9	8	6	8
Triomphe de Gand.....	B	April 27	June 3	June 13	5	6	2	6	7	6	8
Unnamed (Little).....	B	April 30	June 3	June 13	6	7	4	6	5	6	6
Van Deman.....	B	April 27	May 25	June 13	8	7	6	8	10	9	8
Vick.....	B	May 1	June 3	June 13	7	8	1	7	9	9	9
Warfield No. 2.....	P	April 30	June 1	June 13	10	8	10	7	8	8	7
Windsor Chief.....	P	May 1	June 1	June 13	5	6	3	9	8	7	6
Wonderful.....	B	April 30	June 1	June 13	7	8	3	9	8	7	8
Woodruff.....	B	April 29	June 3	June 13	7	6	6	7	5	6	7
Wilson.....	B	April 24	May 29	June 13	6	6	4	6	6	8	6

TABLE III.

SHOWING RELATIVE PRODUCTIVENESS OF THE VARIETIES,

From observations of the season of 1891.

Based upon the quantities gathered; and 10 in the scale representing about *one quart* to the *foot* of row; 1 representing the smallest gathered product, not above *one quart* to the row of 25 feet.

Goldsmith, Henderson, Indiana, Mammoth, Nicanor, Norman, Pearl, Phelps, Seth Boyden, Summit, Vick.

1. [REDACTED]

Black Defiance, Cheney, Cloud, Fairy, Moore's Prolific, Monmouth, Ontario, President, Triomphe de Gand.

2. [REDACTED]

Jessie, Manchester, New Dominion, Ohio, Parry, Sharpless, Windsor Chief, Wonderful.

3. [REDACTED]

Bidwell, Bomba, Gandy, Garrettson, Goldsmith, Haverland, Jessie, Lida, Louise, Mammoth, Manchester, Martha, Monmouth, Moore's Prolific, Mount Vernon, Pearl, Mrs. Cleveland, Ontario, Phelps, Seth Boyden, Shuster's Gem, Summit, Windsor Chief, Wonderful.

9. _____

Bubach No. 5, Cumberland, Dew, Logan, Parry, Sharpless.

10. _____

TABLE V.

SHOWING RELATIVE SUSCEPTIBILITY TO THE LEAF-SPOT,

The proportion of healthy to injured foliage being indicated by the unshaded and shaded portions of the heavy rule; representing the average of three observations: October, 1890, June and October, 1891.

<i>Free.</i>	<i>Diseased.</i>
Gipsy.	
3. _____	_____ 7.
Burt, Fairy, New Dominion, Norman, President, Summit.	
5. _____	_____ 5.
Arnold's Pride, Captain Jack, Cornelia, Garrettson, Kentucky, Maggie, Manchester, Seth Boyden, Triomphe de Gand, Windsor Chief, Wilson, Woodruff.	
6. _____	_____ 4.
Alpha, Bomba, Charles Downing, Cloud, Duncan, Florence, Galceron, Eureka, Goldsmith, Henderson, Itasca, Lida, Logan, Mammoth, Miner, Monmouth, Mount Vernon, Nicanor, Ohio, Parry, Pearl, Piper, Shuster's Gem, Unnamed (Little.), Van Deman.	
7. _____	_____ 3.
Black Defiance, Cheney, Crescent, Cumberland, Ella, Dew, Gandy, Haverland, Indiana, Lady Rusk, Jessie, Louise, Martha, Moore's Prolific, Mrs. Cleveland, Ontario, Phelps, Sharpless, Vick. Warfield No. 2, Wonderful.	
8. _____	_____ 2
Belmont, Bidwell, Bobach No. 5. Covell, May King.	
9. _____	_____ 1
None--entirely free.	
10. _____	_____ 0