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Field Investigations in Feeding
R. C. AVAN

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SPRING, 1913

1266 Washington Avenue

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OGDEN, UTAH

HINTS ON PLANTING.

1st—Avoid any unnecessary exposure to roots of trees and plants from the time of leaving the nursery until planted. The sun, wind and frost will prove very damaging.

2nd—On arrival of trees dig a trench wide and deep enough to receive roots. Take trees from bale; place roots in trench, spread out and wet roots thoroughly and cover well with the moist soil, firm with the feet and let remain till ground is ready for planting.

3rd—See that the ground is thoroughly and deeply pulverized. Dig holes larger and deeper than necessary to receive roots in their natural position without bending.

4th. Take trees from trench, a few at a time, as wanted. Straighten out roots, cutting off with a sharp knife all that are badly bruised or broken. Place tree in center of hole and commence filling in with fine top soil, working same well among roots with the fingers; make sure that the soil comes in contact with every root. When roots are covered 5 or 6 inches deep pour in a bucket of water. When water has settled finish filling, then rake level, leaving top soil loose.

5th—When through planting, if fruit trees, go over them with a sharp knife or shears. If one-year-old trees, there will usually be but one stem, which should be cut back to a uniform height of about two and one-half feet from the ground. If two years old there will be from three to six branches; cut out all but three or four limbs, suitable to form a top, and cut each of the side limits back to four or five inches from the body of the tree, leaving the leader or center limb from 10 to 21 inches long. Shade trees should be cut back to a uniform height of eight or ten feet from the ground.

6th—Lay off ground for irrigating by running a shovel plow each side of the row within six inches of the trees. If weather is warm and dry, turn in water as soon as done, and if weather continues dry, repeat every sixth or eighth day as long as hot weather lasts. Soil should be stirred with hoe or cultivator as soon as dry enough to work mellow after each watering.

7th—If trees are very dry and shriveled when received, bury in moist soil for four or five days, and they will become fresh and plump. If frozen, do not open bale or box, but bury until frost is drawn out. Never handle trees in frosty or windy weather. Never put manure in hole with roots. Set trees an inch or two deeper than they stood in the nursery.

Terms.

Order Early—Don't delay ordering until you are ready to plant. Order early and stock wanted will be reserved for you. This may save disappointment.

Terms—Cash. Remittance should be made either by Post Office Order, Express Order or Registered Letter. For amounts of \$1.00 or less, send one or two cent stamps. Make all orders payable to D. M. Moore.

Shipping—Always name Express or Freight Station to which you wish goods shipped. If to go by special route, this should also be specified.

Prices—Ten trees of one variety will be furnished at 100 rates; less than 10 trees of one variety, at single rates; 20 plants of one variety at 100 rates; less than 20 plants of one variety will be charged for at single rates. If wanted in greater quantity than named herein, please make up list of wants and send in for special prices.

Delivery usually commences from 15th of March to April 1st and continues to about May 1st.

Apple Trees.

Plant 30 feet each way; 48 trees per acre.

Prices.

2 years, 5 to 6 feet, 20 cents each; \$15.00 per 100.

1 year, 4 to 5 feet, 15 cents each; \$10.00 per 100.

SUMMER.

Yellow Transparent—Medium to large, pale waxen yellow; tree hardy.

Red Astrachan—Above medium in size; deep crimson, juicy, acid; a kitchen apple of best quality.

Red June—Small, handsome, dark red; a dessert apple of best quality.

AUTUMN.

Wealthy—Large, striped and clouded with red; tree hardy.

Banana—Tree vigorous, fruit medium to large, smooth and handsome; golden yellow; flesh fine grained.

WINTER.

R. I. Greening—Large, greenish yellow; juicy, rich; excellent for cooking.

McIntosh Red—Medium, deep crimson; highest quality. Tree hardy.

Jonathan—Medium size, skin yellow, nearly covered with a dark red.

W. W. Pearmain—Medium, yellow, quality best; prolific.

Rome Beauty—Large, yellow and bright red. Flesh tender and juicy; tree a moderate grower.

Mammoth Black Twig—Large, dull red; tree vigorous.

Wine Sap—Medium, deep red. Tree an annual heavy bearer. One of the best winter apples for this section.

Crab Apples.

Hyslop—Fruit medium, produced in clusters; deep crimson.

Whitney—Large, striped with red; tree very hardy.

Pear Trees.

Plant 20 feet each way, 108 trees per acre.

Prices.

2 years, 35 cents each; \$30.00 per 100.

RIPEN IN ORDER NAMED.

Bartlett—The most popular of all pears; buttery and melting, with a rich, musky flavor. A young and constant bearer.

Flemish Beauty—Large, pale yellow, with reddish brown cheek. Decays at core if allowed to ripen on the tree. Tree very hardy.

Buerre d'Anjou—Medium to large. Flesh juicy, rich and melting. Tree on rich soil is very slow in coming into bearing.

Cherry Trees.

Plant 18 feet each way; 134 trees per acre.

Prices.

4 to 5 feet, 25 cents each; \$20.00 per 100.

NAMED IN THEIR ORDER OF RIPENING.

Centennial—Large, yellow, mottled cheek, sweet.

Windsor—Fruit large, dark red, nearly black when ripe. Flesh firm and sweet. Hardy.

Napoleon—Large, pale yellow, red cheek, firm.

Bing—Large, black, firm, juicy, sweet.

Lambert—Fruit large, mahogany colored, firm, sweet.

Peach Trees.

After carefully testing nearly every variety of note, I offer the following as being the finest for either home or commercial orchards, forming a succession of ripening, from July to October.

NAMED ABOUT IN THEIR ORDER OF
RIPENING.

Plant 17 feet each way, 150 trees per acre.

Prices.

4 to 5 feet, 20 cents each; \$15.00 per 100.

3 to 4 feet, 15 cents each; \$10.00 per 100.

Alexander—Size medium, skin greenish white, shaded and splashed with red; semi-cling.

Triumph—Yellow, with dull red cheek; semi-cling. For best results should be planted on a light soil.

Hale's Early—Medium to large, red cheek, juicy, sweet; semi-cling.

Bob Witten—A fine early yellow free-stone, large and of excellent quality.

Bishop Cling—Medium to large; white, red cheek. Fine for pickling.

Champion—Semi-cling, creamy white, juicy, sweet, large.

Early Elberta—Fruit of good size, skin light orange with crimson cheek. Flesh firm and of fine textures. Season of ripening eight to ten days earlier than the common Elberta.

Elberta—Large, yellow, with red cheek; flesh yellow, rather coarse and very firm. The most successful market variety every produced.

George A. Lowe—Very large, pale yellow. When well grown nearly as round as a ball. Its shape and uniformly large size make it a favorite with canners.

Lizzie—Free-stone, orange, red cheek, large; prolific.

Orange Cling—Large, dull red cheek, flesh firm.

Apricot Trees.

Plant 17 feet each way; 150 trees per acre.

Price.

4 to 5 feet (on apricot root), 25 cents each;
\$20.00 per 100.

Jones—Medium, yellow, red cheek.

Routier—Large, yellow, red cheek.

Moorpark—A favorite canning variety.

Plum and Prune Trees.

Plant 16 feet each way; 170 trees per acre.

Price.

1 and 2 years, 35 cents each; \$30.00 per 100.

Climax—One of Burbank's best productions; large, cherry red, of finest quality.

Bradshaw—A very large and fine early plum; deep purple, juicy and good; tree erect and vigorous.

Pond's Seedling (Hungarian Prune)—A magnificent English plum; light red changing to violet.

Fellenburg Prune (Italian Prune. Large German Prune)—Medium to large; dark purple.

Satsuma—Medium, reddish brown, flesh dark red.

Grapes.

Plant 6 by 8 feet; 905 plants per acre.

NATIVE OR HARDY.

Prices—Except Where Noted.

1 and 2 years, 15 cents each; \$10.00 per 100.

Concord—Bunch and berry medium; fair quality, black. Vine vigorous, succeeds everywhere.

Niagara—Bunch medium to large, pale amber when ripe.

Brighton—Large, coppery red, sweet and of best quality; vine vigorous.

Black Pearl—Both fruit and vine would indicate this to be a cross between the American and foreign varieties. The vine, while not so hardy as Concord, is hardy enough to stand on trellis without winter protection. The fruit ripens early and is exceedingly sweet and meaty, equalling in quality the best foreign or California varieties. Price, 25 cents each; \$20.00 per 100.

FOREIGN OR TENDER.

The vine of the foreign grape should be pruned in the fall and laid on the ground and protected from frost by a covering of soil or litter.

Black Hamberg—Bunch large, berry medium to large; fine table variety.

Muscat of Alexandria—Bunch large, berry large, oval, pale amber; flesh firm.

Gooseberries.

Plant 6 feet each way; 1,210 plants per acre.

Craghead (Poorman's, Brigham City, Etc.)—Bush strong and vigorous. Fruit medium to large, of best quality, color red. Perfectly free from mildew in some sections, affected more or less in others. 15 cents each; \$10.00 per 100.

Columbus—Large, productive; color greenish yellow; good canning variety. 25 cents each; \$20.00 per 100.

Currants.

Plant 5 feet each way; 1,742 plants per acre.

Price—Except Where Noted.

10 cents each; \$7.50 per 100.

Perfection—Bright red, mild, plenty of pulp with few seeds. Less acid, of better quality and more prolific than any other large currant in cultivation. Should have rich soil. Price, 15 cents each; \$10.00 per 100.

Fay's Prolific—The leading red variety; fruit large, bunch long. Bush only moderately vigorous.

Red Cross—Bush vigorous, clusters long, berry medium to large, quality good to best.

Black Champion—An improvement on the old Black Naples; large berry and cluster; mild, but rich and good.

Red Raspberries.

Plant 2 by 6 feet, 3630 plants per acre.

Price.

5 cents each; \$2.00 per 100.

Mariboro—Beautiful bright scarlet; large, firm. Bush hardy and productive.

Louden—Fruit medium to large, light scarlet while approaching the ripening stage, dull red when fully ripe; very prolific.

Black Raspberry—2-year plants, 5 cents each; \$3.00 per 100; 1-year plants, 5 cents each; \$2.50 per 100.

Dewberry or Trailing Blackberry—2-year plants, 5 cents each; \$3.00 per 100; 1-year plants, 5 cents each; \$2.50 per 100.

Strawberries.

Plant 1½ by 3½ feet, 8712 plants per acre.

Price.

\$1.00 per 100; \$5.00 per 1,000.

Location and soil have so much to do with success that it is difficult to name any one variety that will do equally well in every place. Growers should test the different sorts and find which is best adapted to their soil before planting heavily of any variety.

Shade and Ornamental Trees.

Carolina Poplar—A very rapid growing tree with large, deep green leaves. Tree hardy.

2 years, 12 to 14 feet, 35 cents each; \$25.00 per 100.

Linden—A fine tree with large leaves. Of very slow growth unless planted in a rich, moist soil.

3 years, 6 to 7 feet, 75 cents each.

Sycamore—A handsome tree with bright green leaves, often 8 to 10 inches in width.

3 years, 7 to 8 feet, 75 cents; \$50.00 per 100.

Box Elder—A large tree of rapid spreading growth. Valuable for producing a quick, dense shade.

2 years, 12 to 14 feet, 40 cents each; \$35.00 per 100.

Norway Maple—Of compact habit, broad, deep green leaves.

3 years, 8 to 10 feet, 75 cents each; \$50.00 per 100.

Sycamore Maple—A vigorous, sturdy growing tree, large, deep green foliage. 10 to 12 feet, \$1.00 each.

Silver Maple—Foliage bright green above and silver underneath.

3 years, 10 to 12 feet, 75 cents each; \$50.00 per 100.

Catalpa—Leaves large, heart-shaped. Large bunches of white flowers, marked with purple and yellow spots.

3 years, 7 and 8 feet, 50 cents each.

American Elm—A large tree with spreading, drooping branches.

3 years, 8 to 10 feet, 50 cents each; \$35.00 per 100.

European Elm—3 years, 8 to 10 feet, 75 cents each.

White Ash—A fine tree of medium height with broad, round head, and soft, mellow green foliage. 8 to 10 feet, 50 cents each; \$35.00 per 100. 6 to 7 feet, 25 cents each; \$20.00 per 100.

Green Ash—8 to 10 feet, 75 cents each.

Horse Chestnut—6 to 8 feet, \$1.00 each.

Camperdown Elm—One of the finest lawn trees. branches having a uniform drooping habit, forming an umbrella-like head. Two-year heads. Price \$1.50 each.

Birch—Cut Leaved Weeping—Tall, slender, yet vigorous growth; graceful, drooping branches, silvery white bark and delicately cut foliage.

3 years, 6 to 7 feet, \$1.00 each.

Evergreen Trees.

Price(except where noted)—\$1 per foot, balled.

For local delivery Evergreen trees, with the exception of pines, are taken up with a ball of soil on the roots, which is securely covered with burlap. In planting dig a hole where tree is to stand, place tree in hole just as received from the nursery, cut the string that holds burlap in place, and if soil is unbroken, lift tree gently and remove the burlap. If soil is broken and likely to fall away from the roots, do not attempt to remove the burlap, but lay it out smooth from the stem of tree. Fill in carefully with fine, moist soil, which should be made firm enough by tramping to prevent roots being moved by the tree swaying in the wind.

Norway Spruce—A compact, symmetrical-growing tree, the branches assuming a graceful drooping habit with age.

Colorado Blue Spruce—A native of the Rocky Mountains and one of the most beautiful of all evergreens. Foliage a rich silvery blue, forming a beautiful contrast with the dark green of other trees; 12 to 18 inches, \$2.00 each.

Arbor Vitae (Pyramidalis)—Of remarkable erect growth, rich, dark green foliage. It is of the same habit as the Irish Juniper, and is decidedly more valuable for its superior hardiness.

Arbor Vitae (Siberian)—One of the best. Exceedingly hardy, keeping color well in winter; growth compact and pyramidal; makes an elegant lawn tree.

Ornamental Shrubs.

Price—2 to 3 feet, 35 cents each.

Snow Ball—An old shrub of large size, with large globular clusters of pure white flowers.

Mock Orange—A rapid growing shrub producing a mass of snow-white flowers similar to orange blossoms.

Van Houttei—The grandest of all the spireas. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing.

Lilac—Great improvement has been made in this well-known old favorite. Some of the newer kinds are very fine. They commence to bloom while quite young, and range in color from white to a deep purplish red.

Althea—A very desirable shrub on account of blooming in autumn when scarcely any other tree or shrub is in bloom. The Althea, like Lilacs, has a great range of color.

English Privet—When well trimmed makes one of the most ornamental hedges. \$3.00 per 100; \$20.00 per 1,000.

Roses.

My roses are field grown on own roots. If tops should be broken or frozen to the ground, the plant is not lost, as new wood will spring from the roots and soon bloom again.

Prices.

2 years, No. 1, 25 cents each; 5 for \$1.00.

2 years, No. 2, 20 cents each; 5 for 75c.

HYBRID PERPETUAL ROSES. HARDY.

General Jacqueminot—Bright, shining crimson, very rich and velvety. One of the best and most hardy for out-door planting.

Paul Neyron—Flowers very large, bright pink, very double; bush has but few thorns.

Prince Camille de Rohan—Very dark, rich velvety crimson, passing to intense maroon.

Clio—A splendid rose, color fresh delicate shell pink.

HYBRID TEA ROSES, OR HALF HARDY.

Clara Watson—Bright crimson, center tinted rosy peach, fine form and habit.

Gruss an Teplitz—Bright scarlet, shading to velvety crimson, superb.

La France—A most profuse bloomer, rose color, changing to silvery pink.

Kaiserin, A. V.—Creamy white, a strong, vigorous grower and constant bloomer.

CLIMBING ROSES.

Crimson Rambler—Plant of vigorous growth, foliage a rich, glossy green, which contrasts finely with the bright crimson flowers. The flowers are small, but form in large clusters.

Baltimore Belle—Pale blush, changing to white; fragrant. A most profuse bloomer.

Dorothy Perkins—Clear, shell pink; passing to deep rose; sweetly scented.

Climbing Vines.

Hall's Japan Honeysuckle—A vigorous, almost evergreen sort, with pure white flowers, changing to yellow. 25 cents each.

Clematis Paniculata—Of a rapid growth. Flowers are of medium size, fragrant, pure white and borne in immense sheets in September. Fine for trellis or porch. 35 cents each.

Jackmani—Large, velvety, violet-purple; profuse bloomer. Strong 2-year-old plants, 45 cents each.

Virginia Creeper—Has beautiful deep green leaves that change to crimson in autumn. 20 cents each.

Boston Ivy—A beautiful climbing vine. It clings firmly to walls, its overlapping foliage giving them the appearance of being shingled with deep green leaves. The plant is very slow and delicate at first, but gains in strength with age. 35 cents each.

English Ivy—An old, well-known climber, with dark glossy green leaves that remain green all winter. Thrives best if given north or eastern exposure. 50 cents each.

Paeonias.

The most beautiful of all hardy perennial plants, rivaling the rose in perfection of bloom, coloring and fragrance. They are of the easiest culture and thrive in any soil, but give best results if planted in deep, rich, well drained loam. Plant three or four inches below the surface.

PLEASE ORDER BY NUMBER.

- No. 1. Festiva Maxima**—Pure white, center petals occasionally flecked with red. Finest white paeony; fragrant. 35 cents each.
- No. 2. Queen Victoria**—White; somewhat resembling the above. An excellent keeper. 25 cents each.
- No. 3. Floral Treasure**—Bright, light pink, good bloomer and a fine cut flower. 35 cents each.
- No. 4. Edulis Superba**—Beautiful rose pink, very early; fragrant. 25 cents each.
- No. 5. Marechal Viallant**—Very large, color almost the shade of the American Beauty rose. 25 cents each.
- No. 6. Andre Lauries**—Dark pink; compact, late. 15 cents each.
- No. 7. Delacheii**—Dark purplish crimson. 35 cents each.
- No. 8. Golden Harvest**—A beautiful flower; guard petals shell pink, center buff. 35 cents each.
- No. 9. Rubra Triumphans**—Brilliant crimson, semi-double. 15 cents each.
- No. 10. Madam Grousse**—Pure white large flower, strong erect grower. 35 cents each.

HARDY PERENNIALS AND BULBS.

Dahlias—Well-known autumn flowering plants, varying in color from the purest white to the darkest maroon. Dahlias should not be planted earlier than about the first of May. 15 cents each.

Alaska Daisy—The flowers are immense; pure white with yellow center. Plant not so tall as the Shasta, and does not need staking. 15 cents each.

Bleeding Heart—Rose colored, heart-shaped flowers in drooping racemes. 20 cents each.

Phlox—Few plants give better satisfaction than hardy Phlox. The varied and beautiful coloring make them particularly valuable for garden planting. 15 cents each.

GARDEN ROOTS.

Asparagus—Varieties: French Giant, Eearly Argentenil. Dig trenches 12 or 14 inches deep and 2 to 5 feet apart. In these put 5 or 6 inches of well-rotted manure, and on this 3 to 4 inches of mellow soil. Lay roots in trench 14 to 16 inches apart, then fill trench with good rich soil, leaving roots 4 to 5 inches below the surface. Do not cut until the second year and then only lightly. Price 3 cents each; \$2.00 per 100.

Rhubarb—Varieties: Zeimer, English. Price (divided root), 25 cents each.

Horse Radish Sets—5 cents each; 40 cents per 10.



