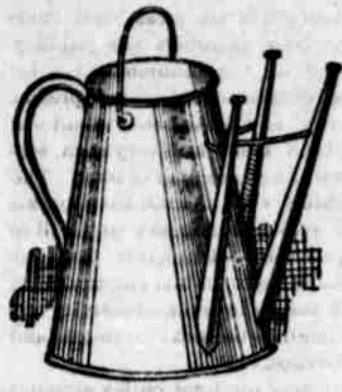


FREEDING BY HAND

A WHOLESALE METHOD OF GETTING MILK INTO YOUNG LAMBS.

To raise lambs by hand, writes S. H. Todd in The National Stockman, select a coffee-pot holding about one gallon. Take off the ordinary spout and cover the opening formed securely so that nothing can leak through. Then fasten three spouts on near the bottom of the pot about 1/4 inches apart. These spouts should be like tubes, larger at the bottom and tapering to the top, which should be large enough to fit a nipple on nicely. The spouts reach from the bottom up even with the top of the pot and should extend out five inches from the top. Stay each spout to the pot with a tin brace about three inches below the top of the pot. Take a wire about No. 20 and solder around the top of each spout to hold the nipple on. A string around the nipple below the rim will hold it securely. Have the fill on the top of the pot to carry it by. Fill the pot with fresh cow's milk, Jersey the best, and let the lambs take all they will. Be sure to let the milk get out of his stomach before giving him



LAMB FEEDER.

any more. This will be from four to five hours. Then feed again all the lambs will eat. We have never lost a lamb raised in this way. We can raise them as easily and safely as we can a calf. The advantages of this manner of feeding are:

- First.—Air follows the milk right down into the pot and makes a continual flow, and the lamb has only to make the motion and swallow.
 - Second.—You pour milk from the pail into the top of the pot.
 - Third.—The amount of milk holds the heat.
 - Fourth.—You can put the pot into a kettle of hot water and have the milk heated in three minutes.
 - Fifth.—You are feeding three lambs at one time.
- This is unique and the only successful method I have found of raising lambs by hand. Fed in this way we have had lambs make 54 pounds at 7 weeks of age. This feeder had much to do in knocking out the royal winners of England when we met them in the show ring.

Yearlings and Older Colts.

Yearlings should always be separated from older colts while their food should be more nutritious, and their requirements will best be met by substituting clover hay for straw fodder, says a correspondent of the London Live Stock Journal. Not only is the straw deficient in nutritive substance for young, delicate flesh and bone forming purposes, but the older and stronger colts will invariably drive the yearlings back. They will never get forward to eat until the former retire satisfied, and if there is a sweeter rip of straw than another it will be carefully selected and only the refuse left for the poor handicapped yearlings. Therefore if all farmers who go in for rearing colts will take the trouble to separate them—the weak from the strong—they will be amply compensated for their labor and humanity by the enhanced improvement of the yearlings.

Horses For War.

The terrible slaughter of horses under modern infantry fire has no doubt caused the war authorities of continental nations to look well into their sources of supply, and it does not seem altogether impossible that exportation under certain circumstances may be interdicted, says the London Live Stock Journal. All our ancient British statute books abound with acts of parliament or edicts of reigning monarchs forbidding horses to be taken out of the country at times under heavy penalties, and were it not owing to the fact that we can draw heavy supplies

from beyond the sea similar enactments might be made now. If such enactments were made by continental nations, our home breeders of harness horses would largely benefit.

Spring Plans.

When the pigs are 3 weeks old, they will begin to eat, says a correspondent of The Live Stock Indicator. An extra shallow trough should be placed for them close to the feeding place for the sow, but out of her reach. Give them some warm slop of shorts and milk, but while the pigs are growing it will be quite an item to secure this growth at as low a cost as possible. One of the cheapest of all these is grass, clover especially. As the grasses get dry in July they may be supplemented with green oats. Keep them off the oats until June, then they have a rich pasture. As soon as the corn crop is ready the pigs should have made such growth that but a short time will be necessary to finish them for market. Plenty of charcoal, salt and ashes should be kept under shelter where they can have access to it.

Chrysanthemum rust has been somewhat abundant in various sections the last year or two. It grows so rapidly and the spores are so numerous that they fall from one leaf to the other and cause the leaves to look as if they had been dusted over with tobacco dust. Professor Halstead advises to buy your stock from people who have none of this rust, and if you are so unfortunate as to have it use heroic remedies. Throw out all boards, walk, etc., and burn also. Dig out all the earth, and whitewash all the walls. In short, make thorough work of cleaning out the house and begin over again with new stock. Do not use any half way methods in getting rid of it.

A Beautiful Flowering Vine.

Among all the leading flowering vines which embellish the beauty of the summer season, that beautiful introduction from Japan, Clematis paniculata, stands unsurpassed in many respects. Its pure white flowers, given forth in untold abundance, lend a semblance of coolness under the hot, late



CLEMATIS PANICULATA.

summer sun and exhale delicious fragrance around it. It is a delightful plant and worthy of all the wide notice it receives. As a climber over a trellis, on the roof of an old shed or outhouse or as a specimen on a pillar, this most popular of clematises is sure to please. Our picture is a very faithful interpretation of the graceful habit of the young growth as well as an exact reproduction of individual flowers, says American Gardening.

Phenomenal Prospect For Peaches.

The prospects of the peach crop June 1 were nothing less than phenomenal, according to the government statistician, almost every important peach growing state reporting a condition far above the average and some even above 100. Among the latter are Delaware, Georgia and North Carolina, whose reports of 106, 110 and 105 are about double their respective ten year averages. Only California, with a condition of 77, or six points below the average, constitutes any noteworthy exception to the long series of highly favorable reports.

How New Strawberries Are Produced.

Hybridization has been the favorite method of producing new varieties of strawberries, perhaps because the first successful variety was obtained in this way. Among the recent hybrids many are mentioned the Ham, which also illustrates the difficulty of systematic breeding, it being the only one named worthy of preservation at about 1,700 hybrid seedlings.

FRUIT & FLOWERS

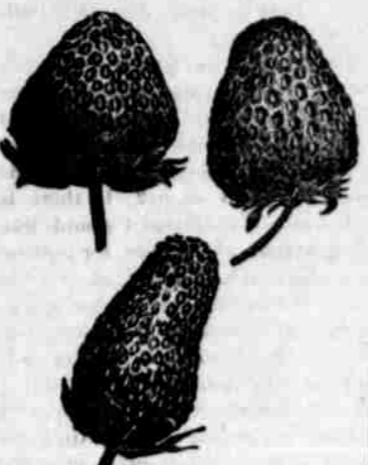
GROWING STRAWBERRIES.

A Summary of Experiments by Professor Haze of New Hampshire. The culture of strawberries is the same both for home and the market. The strawberry does well wherever given good cultivation, proper drainage and plenty of fertilizer in available form.

Well rotted manure, bone meal and wood ashes (or some of the potash salts) are considered the best fertilizers.

Fall plowing, mulching with manure and thorough preparation of soil before setting plants are the first steps in strawberry growing.

A crop of clover or other green manure known to be free from insects will, when plowed under, prove of great value to the crop.



BRANDYWINE, BURBACH NO. 5, HAVERLAND.

Coarse manure may be plowed under with good results, provided it is applied early enough to be well decomposed by planting time.

Spring set plants give the best results; where fall set they should be grown especially for that purpose, small pots being most commonly used. Where plants are grown by hill culture they are usually set in rows 3 or 3 1/2 feet apart and one foot apart in the row, all runners and blossoms being kept off the first season.

In matted rows the rows are from 3 1/2 to 4 feet apart, and plants are set from 15 to 18 inches in the row, according to variety and width of row.

Fruiting one season only is usually advocated by best growers. It is less work and more profitable to set a new bed than to renovate an old one.

It is necessary to protect the plants in winter by mulching with some material, such as straw, marsh hay, pine needles, pine boughs, coarse manure, etc., to protect from heaving.

Failure to get a maximum crop frequently comes from improper fertilization. Have at least one row in every four of a perfect flowering variety.

The practical growers generally agree upon the merits of the following varieties: Beverly, Brandywine, Burbach, Clyde, Crescent, Greenville, Haverland, Lovett and Warfield.

Irrigation has proved of great value wherever tried.

Summer Pruning Needed.

Blackberries and raspberries should be stopped when the new growth has reached three to four feet, depending on varieties. To develop the fruiting side branches I have found it important to stop the new growth on the Cuthbert when it reaches above and beyond the fruiting stems; also to cut out and burn the fruiting canes as soon as they are done fruiting. It gives room for the new wood to keep an upright position and destroys very many lice and other insects that infest the old cane. Currants and gooseberries need pruning as soon as the fruit is gathered. Cut out all surplus old wood. It may have lice on it, or, in the stalk, the larvae of the stalk borer.

Spices prunifolia, lilac, forsythia and all the early flowering shrubs want cutting back severely immediately after blooming, so that they have time to develop new wood and flower buds on them before winter. Others want shaping to make them pleasing to the eye and sometimes for their own good.

Roses need the pruning shears at intervals all summer. Cut back the blossom stalks when the blossom falls and let it start a new blossoming stalk instead of blind wood. In this way you may have not only June roses, but roses nearly all the time till sharp freezing weather.—Charles Black, New Jersey.

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A Gem Among Chinese Primroses.

Among recent introductions of the primrose family a writer in Meehan's Monthly has mentioned Primula sibirica as one of the best. The foliage is very dark purple in color. The flowers are pure white and about one inch in diameter, produced on stems one above the other, reaching over 20 inches in height. The plants flower much longer than the alpine type. The seed should be sown in April in light soil to get good sized plants and given a little more sun than is usual for alpine.

Flowers in Vases.

Nothing embellishes a flower like its own foliage. Roses should have nothing more, nor lily of the valley, tulips or any bulbous plants or chrysanthemums. If the chrysanthemum foliage is not good, cut some that is. Anything else would be ridiculous. But carnations are weak in foliage, and sprays of Asparagus sprengeri will go well with them, says a floral authority.

Hogs and Hay.

At the Kansas Experiment station hogs were fed on a ration of alfalfa hay and Kaffir corn meal. The hogs fed in this experiment were bought of farmers and averaged in weight 125 pounds each. They were placed in lots of ten each in large pens having for shelter some sheds open to the south. The alfalfa hay used was of the best quality, carefully cured. Black hulled white Kaffir corn was the grain used, the hogs being fed all that they would eat without waste. The hay was fed dry in forklifts in a large flat trough. The pigs were given more than they would eat, and they picked out the leaves and finer stems, rejecting the coarser stems. One lot of hogs was fed Kaffir corn meal dry and alfalfa hay, one lot whole Kaffir corn dry and one lot Kaffir corn meal and 66 pounds of alfalfa hay, the meal wet. The experiment began on Nov. 24 and lasted nine weeks. By that time the alfalfa fed hogs became well fattened and were marketed. We estimated that it would require four or five weeks' additional feed, with ordinary winter weather, to get the hogs that were fed grain alone into good marketable condition.

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