

GROWING PROTEIN.

Dairymen Urged to Raise What Grain They Need.

In an interesting letter to The National Stockman F. A. Converse of New York expresses the belief that more than half the money put into grain for our dairy cows can be and should be saved by raising the grain on the farm. A farmer with a silo never needs to buy any cornmeal, as his feed already has enough starch. What is wanted, then, is some feeds to take the place of the bran, gluten, middlings, etc. What, then, can be raised? The best take the place of these feeds and balance up the silage or the other coarse fodder we may happen to have, such as mixed hay, cornstalks and straw? The answer to the question, it seems to me, is to raise oats and peas.

I have tried several ways of raising this crop and will describe the one most successful. Our rotation of crops is (1) clover, (2) corn for the silo, (3) potatoes, (4) oats and peas.

After the potatoes are dug the soil should be sown to keep the ground covered during the winter with a growing crop. As early as possible in the spring plow this rye under and fit the land thoroughly for the oats and peas.

Mix the seed, one bushel of White Canada peas to two bushels of oats, and put on 3 1/2 to 8 bushels of the mixture per acre, drilling it in rather deeply. Three bushels of seed per acre should be used only where the land is very fertile and well cultivated. After the grain is sowed roll the field or go over it with a "clod crusher," followed with a weeder or smoothing harrow. Never leave a piece of grain just as the roller leaves it; always "roughen" it to hold the moisture. Go through the oats and peas once a week with the weeder until they get so high you must stop. This will hasten the ripening of the grain.

Keep down the weeds, especially wild mustard, besides increasing the fertility by cultivation.

Just as the top cut begins to turn cut the crop with a mowing machine and cure as you would hay. The advantages of the early cutting are: The straw is worth as much as timothy hay to feed, the peas will not shell in mowing and raking, and the grain cut thus early will fill out and be plump and weigh more pounds to the bushel than it will if allowed to stand and mature before harvesting. The grain is all so green it cannot be cured out if cut with a binder, but with a mower it can be treated exactly as you would treat hay. When dry, it is ready to be thrashed, and we will get grain enough from one acre to feed a dairy cow one year. In other words, on good land we can raise 50 bushels per acre, which will weigh 2,300 pounds, about the amount ordinarily fed to a dairy cow in 12 months, or an average of six pounds per day. The analysis shows that oats and peas have a nutritive ratio of about one to five. Of course this is more or less variable as the two crops mix.

On some land a person can sow more peas per acre. As a rule, I would say sow as many peas with the oats as will stand up and not lodge. Some years I have mixed them half and half with good results, but cannot depend on it.

As a basis of a grain ration for a dairy cow no grain is better or cheaper than oats and peas. To this cream gluten or cottonseed or linseed meal can be added in small quantities to suit the needs of the animal feed. As soon as this crop of oats and peas is taken off seed to clover. The land will be in a mellow, loose condition and can be fitted with a spring tooth harrow without plowing. Sow on the clover seed eight quarts to the acre and harrow in lightly. I seeded this last year the first week in August and have good results. I heartily commend this plan of growing protein to the dairymen to stop that everlasting feed bill. When a cow draws \$6 worth of milk to the creamery and draws back \$3 worth of grain, he has to do a lot of business to get much money from his dairy. Let our motto be to raise more and buy less.

Feminine Dairy Wisdom.
Dorothy Tucker writes to Farm Journal as follows:

Don't make the mistake of thinking that a large cow necessarily makes the most butter. It is a great error.

In the first place it takes much more to maintain the large cow, and in the second place she will probably not give any more or even as much in return as the smaller animal.

If you have an extra good dairy cow, you must remember that she is necessarily very highly organized.

She may be compared to a machine running at high speed and doing great work. All parts must be closely watched, everything must be kept in perfect condition, or the breaking down of the whole thing will be the result.

So it is with our best cows. They are not like the old no purpose cow, with little or no nervous system or high development. Great care must be given them at calving time, which is a critical period.

Allow no shocks or nervous excitement.

Keep the bowls open to avoid a feverish condition.

Cut down on all heavy feeds for two or three weeks before calving.

Give plenty of wheat bran with a small quantity of oilmeal.

After calving come up to full feed very gradually, avoiding sudden changes of all kinds. In fact, give her every care and attention that you would one of your own family.

Keep her warm. Warmth will double the yield of a cow on the same feed as compared with cold.

We have for a long time raised our calves on skim milk and flaxseed jelly; have raised them so that they were everything that could be desired.

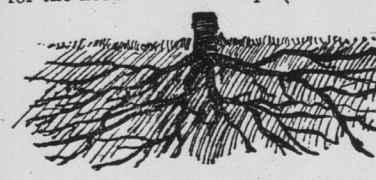
Never turn calves in pasture the first year and never put them in the hog pasture.



SOIL MOISTURE.

Methods of Conserving It—Subsoiling, Plowing and Tillage.

Next to temperature moisture is probably the controlling factor in the growth of plants. The importance of a supply of moisture is most strikingly demonstrated in regions of deficient rainfall, where irrigation is necessary for the growth of crops (arid regions), but it is no less important in regions where the rainfall is usually considered sufficient for the needs of the crops (humid regions).



For this reason the following report of the department of agriculture on the conservation of moisture in the soil, as studied at various stations, is of general interest. Subsoiling is one of the important means. The Wisconsin station describes this influence substantially as follows:

Subsoiling increases the storage capacity of the soil for moisture and increases the rate at which water will sink into the soil, but decreases the rate at which it may be brought back to the surface. Subsoiling also increases the amount of moisture available to crops, since plants are capable of utilizing a larger proportion of the moisture present in loose, coarse grained soils than that in fine grained and compact soils.

In humid regions, as a recent bulletin of the California station points out, the soil as a rule is underlain at a comparatively short distance below the surface by a subsoil, which the roots of plants penetrate with difficulty and from which they can draw little nourishment. The roots, therefore, spread out near the surface, and the plants require frequent rains or irrigation to sustain life. A suspension of either rain or irrigation for ten days or two weeks under these conditions usually results in injury to the plant. Under such circumstances subsoiling encourages deep rooting and thus enlarges the stock of water as well as plant food at the command of the plant.

In many parts of the region of deficient rainfall, as in southern California, plants, especially fruit trees, are capable of withstanding months of drought. This is claimed to be due to the fact that "in the arid region, as a rule, subsoils in the eastern sense do not exist. The soil is readily penetrable by the root systems of plants in humid and arid regions is illustrated in the accompanying figures. A glance at the figures suffices to show that, while a root system like Fig. 1 will stand in need of frequent rains or irrigation to sustain its vitality, such a one as Fig. 2 may have prolonged drought with impunity, being independent of surface conditions and able to perform all its functions of reaching stores from lack of moisture. It is equally clear that it is to the farmer's interest to favor to the utmost this deep penetration of the roots. This can be done in humid regions, to some extent at least, by thorough preparation and tillage of the soil, and, in case of fruit trees, by guarding against excessive surface fertilization. In arid regions frequent irrigation, it is claimed, encourages shallow rooting.

To prevent loss of water from the soil by evaporation it is necessary to check the rise of water by capillarity to the surface of the soil. This is accomplished to some extent by subsoiling, but in order that the work partly accomplished by the subsoiling may be completed and continued the surface of the soil must be kept covered with a mulch of loose, well tilled soil by means of frequent tillage.

Whether the best results in preventing loss of moisture from the soil in humid regions will be obtained by subsoiling, shallow cultivation or deep cultivation, is a matter of debate.

Female Dairy Wisdom.
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PEACH LEAF CURL.

An Increasing Wave of It in the North the Past Few Seasons.

Peach leaf curl has been long known to the orchardist, but the seasons of 1897 and 1898 have brought it into a prominence by no means pleasing in many peach growing sections. This year everybody will be on the alert for its first appearance, and it is important that all should be prepared to combat it. The disease can often be detected when the leaf buds have but slightly opened. The usual early indications are a roughening of the surface on the young leaves and heightened color. B. M. Dugger of the Cornell university station, has given, in bulletin 164, a brief and clear account of the fungus which causes leaf curl, and he has outlined a treatment which has proved most satisfactory. With the present knowledge of peach leaf curl he makes the following special recommendations:

First.—Spray thoroughly with strong bordeaux mixture just previous to the swelling of the buds, late in March, or very early in April seems desirable in this latitude.

Second.—Spray again with weaker bordeaux as soon as the petals of the flower have fallen or after the work of the bees is over.

Third.—Spray again with weak bordeaux when the first leaves are just full grown or at just about the time that the spores of the fungus are developing. Professor Dugger next discusses his recommendations thus:

First.—Why not spray in midwinter? Midwinter spraying may be quite effective, but there is every reason to believe that the April spraying will be better, for if that is near the time that the buds are infected the spores will then be more readily killed. If a time when other work is not pressing is of first importance, spray earlier. Why not use copper sulphate solution? It may be quite as effective, but bordeaux adheres better and would be more likely to prevent infections throughout a period.

Second.—Why? Late infections by spores from the ground or from neighboring fields may be thus guarded against.

Third.—This spraying is to cover the leaves with bordeaux at about the time the fungus is fruiting, hoping not only to prevent summer infection, but to cover places where the spores may lodge in order to pass the winter.

Professor Dugger further says: In making the first spraying, the all important one, strong bordeaux mixture may be used, and every twig should be so well covered that the blue color appears. This is the best coating after the application has dried. However, under certain conditions the foliage of the peach seems to be easily injured by spraying with bordeaux mixture. With weak bordeaux mixture properly made I have not been able to produce any injury on the trees experimented upon.

The customary formula for bordeaux mixture is: Copper sulphate (blue vitriol), 6 pounds; slaked lime (good quality), 4 pounds; water, 50 gallons.

In spraying the foliage of peach trees reduce the copper sulphate to four pounds. Even this may seem strong. It is a rule, however, he condemns until tried, and when tried the mixture should be made by the one method which has been most successful. To dissolve the copper sulphate suspend it in a quart of water, then add the lime and the water. The stock solution of 25 gallons of water. Slack the lime (use only the best) slowly and then dilute it to 25 gallons. Pour the two together in this dilute form, stirring for a few minutes. The stock solution of 25 gallons of water. Slack the lime (use only the best) slowly and then dilute it to 25 gallons. Pour the two together in this dilute form, stirring for a few minutes.

Each gallon means a pound of the substance wanted. When the mixture is made, dilute each solution separately before pouring them together.

Taking Bees Out of the Cellar.

Taking bees out of the cellar was discussed at the Brantford convention, the prevailing opinion being that they should be put out early in March. April, some preferring to take out all at once, others by instalments; no uniformity of opinion as to whether they should be put on the old stands.—Canadian Bee Journal.

News and Notes.

To all agriculturists the too renders conspicuous service, but gardeners and greenhouse owners may make this animal of special value. Every gardener should aim to keep a colony of bees among his growing crops, and the practice of collecting and transferring them to the gardens is a commendable one.

The twenty-fifth biennial session of the American Pomological society is to be held in Philadelphia Sept. 7 and 8 in the hall of the Pennsylvania Horticultural society. Already it promises to be largely participated in by the various state societies.

On account of the limited amount of arable land in Japan, as Dr. Knapp of the department of agriculture tells, the field crops are all managed upon garden methods. The seed for all the wheat, rice, rye and barley produced is first sown in highly fertilized beds, and when the plant is of sufficient size it is transplanted into the fields, much like cabbage.

The latest wrinkle in sugar beet culture, according to the Denver Field and Farm, is a squeezing plant or substation located at a place far distant from the factory. The squeezer extracts the juices of the beet and leaves the pulp or pomace at the place for the use of feed farmers there. The juice is then transported in barrels or tins to the factory, and in this form it is kept until needed by proper temperature. With plenty of squeezers all over the country a factory could be kept running nearly all the year.

OUT OF DOOR GOWNS.

Street and Outing Costumes of Various Kinds.

The coat bodice and the tunic are more becoming to a tall than to a short figure. The tunic in particular, which suggests the classical idea, requires height and dignity in the wearer to appear to the best advantage. The bolero, however, is becoming to almost everybody in its present rather elongated form and may be safely chosen by any woman.

For bicycling and golf suits reversible woollens are used, in which the sides are different. No lining is employed. For example, a suit of dark beige goods consisting of a short skirt finished around the edge by many lines of stitching and a double breasted bolero. The wrong side of the goods shows a brown and buff check. The suit is unlined, the seams being neatly bound with ribbon. Such a costume is easily suited for out of door sports, with the addition of gaiters and an alpine or sailor hat, and in it a woman is comfortably equipped for mountain climbing or any athletic amusement. With a short skirt the petticoat is desirably replaced by bloomers of black material or of goods matching the color of the gown.

There are many odd and pretty ways of decorating the bodice, and one of the new methods of trimming is illustrated. There is a yoke, or rather applied plastron, of plaited white mousseline de sole, around which is a drape of white lace, fastened to the right shoulder by a jeweled buckle and at the other side by bows of red satin. The lace is carried down the left side in a quill and fastens again in the waist with red satin bows. The collar of red satin has coques of the same material and a lace trail.

BODICE DECORATION.
A picture is given of one of the simplest of the present fashionable petticoats. It is of a deep blue and blue glaze taffeta, like the skirts of gowns, is molded to the figure at the top. Around the foot is a deep flange, increasing in height toward the back and headed by a pinked ruche of taffeta. The flange is bordered by a pinked ruffle of taffeta. The corners are usually matches the petticoat in color, or at least harmonizes with it, and in this case a corset of either tawn or blue satin might be chosen.

TAILOR MADE GOWNS.
Materials, Styles and Trimmings For Each Costume.

Tailor made gowns have lost no portion of their prestige and are seen in greater variety than usual because of the wide range of color and trimming allowed them this season. There are many blue besides navy blue—old blue, blue and a sort of purplish blue both deep and medium—a series of faint tints just off white, gray and pale beige, as well as the usual deep colors and red. Then for materials there are numerous sorts of thin cloth, crepe, velvet, silk, kid or satin finish, thin serges and chevrons of a hairy surface and both coarse and fine venetian cloth. The simplest style of making shows a plain, straight skirt, touching the ground all around, very tight around the hips and with an invisible fastening, and a short

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FASHION HINTS.

Facts Concerning the Details of Present Styles.

The draped tunic and the redingote opening over the skirt are enjoying eminent success in fashionable circles and appear in all sorts of gowns, from the tailor made costume to the evening toilet. The skirts over which the tunic or redingote appears need not be of the same color or goods. It may be entirely different if the general scheme of the costume demands such variation, or it may be covered with lace or guipure while the tunic is left plain. In some of the summer models of light gowns the body of the gown is of silk or satin, the tunic of gauze of the same color. The favorite fashion of fluffy neckwear—bows, ruches, etc.—is gradually leading to the revival of tulle and mousseline bonnet strings. These pretty soft scarfs are seen on some of the newest hats and are likely to be welcomed, as they are usually very becoming when tied in a fluffy bow under the chin.

Boleros and coat bodices divide empire over the upper part of the costume. The

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