

Trettis For Grapes and Pruning.

I bought a small farm last spring and on it I found quite a nice lot of very theif ty trellis grapes, but they have been bad by managad, having been scaffolded and never pruned. I want to train them upon wires and prune them as soon as it ouisht to be done. Now, what direction shall I stretch my wires north and south or east and west, and why: I have a fance for grape culture and would like to begin right. Please give me what practical information the Station has to dispose of —B. W. H., Merry Hill, N. C. [Answered by W. F. Massey, Horticulturist, N. C. Experiment Station.]

I am inclined to think from a slight experience that the Munson trellis is the best method of training vines in this climate. This is the mode devised by Mr. Munson, a noted fruit grower of Texas. The plan is to set posts along the rows at moderate distances, and from four to six fest high. On these posts cross pieces are nailed two feet long, and wires are stretched along the centre of the tops of the posts, and from the end of the cross pieces, making three horizontal lines of wires a foot apart. The vines are trained on long canes along the central wirs, and the fruit wood is trained to the side wires, and allowed to hang over. New canes apart. The vines are framed on long cames along the central wire, and the fruit wood is trained to the side wires, and allowed to hang over. New canes are trained out annually to take the places of those that have borne and are to be cut away. We have some trained in this way at the Station and they do well. We never prune grapes here till March, as those pruned in the fall are apt to start untimely in the spring and get hurt by a return of cold. At that late date the bleeding does not amount to much, as the foliage soon stops it. In any mode of training the main object is to have a good supply of strong one-year-old wood. If you train on a perpendicular trellis, run the trellises north and south, so that one will not shade the other. Stretch three wires starting 18 inches from the ground, and a foot apart, and prune fan shape, cutting out annually the wood that has borne and train up strong canes four or borne and train up strong canes four or five feet long for the new crop.

Formula For a Fish Scrap Pertilizer.

You will please give me the informa-tion needed to make fertilizer for my own use. Will fish scrap, acid phosphate and kainit make a complete fertilizer for cot-ton? Send formula. I have fish scrap and cotton seed, lot and stable manure.— C.S., Marthel, N. C. [Answered by H. B. Battle, Director, N. C., Experiment Station.]

I would suggest the following proportions: 1,200 pounds.
Acid phosphate. 1,200 pounds.
Fish scrap 500 pounds.
Kainit 300 pounds.
This will give a mixture about equal

This will give a mixture about equal to, if not better, than the ordinary ammoniated fertilizer and cheaper in cost. As a compest, using stable maintre and cotton seed, No. I on page 16 of pamphlet sent by this mail would answer. I would advise your using the fish scrap in the above formula as given, and the stable maintre in the second for the purpose of improving the cotton seed as a fertilizer. I would suggest your testing these two mixtures and ascertaining which will be the better for you, in which case I would be glad to know the result. The advantage of the latter over the former is in a larger quantity of organic matter added to the soil. Of course a larger application of the compost should be made than of the first mixture.

Subsoiling and Preparing LandForPotatoes
I have some three or four acres of sandy
joam that I intend to plant in late Irish
potatoes next year. This land has a sandy subsoil with some clay. It has never
been plowed deeper than from four to
seven inches. Would it pay to subsoil
this land and it se, how deep? I have
some land that I will turn at once for
corn. It is red clay with almost no sand
at all, in fact in many places there is no
sand at all. Would it be an advantage to
this land to subsoil it? I am trying the
experiment of raising late Irish potatoes
for our home market.—A. S., Booneville,
N. C.

Answered by W. F. Massey, Horticulturist, N. C. Experiment Station.]
It will certainly pay you well to subsoil this land this fall as soon as possible. It would have been far better for
the potato crop if you had gotten a
growth of clover or peas on it this summer, and had some vegetable matter to
plow under for the potato crop. I would
advise to plow the land at once and subsoil it, and sow rye on it to be plowed
under in the spring, so as to give you
some vegetable matter for the potatoes.
The red land would be more benefitted
by the same treatment than any other.
A good growth of peas the summer before, followed by crimson clover sown
among the peas in August and plowed
under in the spring will be the best
preparation for the potato crop, and if
on the peas you apply a good dressing
of acid phosphate and muriate of potash, you will get better results on the
potato crop than by applying all the fertilizer to the potatoes direct. There is
nothing like a good coat of vegetable
matter for the potato crop.

Cowpeas Plawed In the Fall or In the Spring?

Will you kindly give me the compara tive value, as a fertilizer, of a crop of cow peas plowed under in the fall before frust to one lett on the ground until spring be

on, N. C.

[Answered by H. B. Battle, Director N. G. Experiment Station.]

Experiments conducted at the Alabama station show that approximately 6½ times the quantity of uitrogen is found in the vines of cow pens in the fall than those left ever to the following spring. The reason of this is that the nitrogenous materials are lost by decomposition. The materials of a mineral character will be also lest from the leaves being blown or washed to other localities. We have gotten the best results from plowing under after the peasuits from plowing motor after the pea-vines are ripe in the fall following with wheat, and not allowing them to re-main on the land until the next spring. Bulletins Nos. 77 and 91 describe the

Cowpeas have somewhat more ferti

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