

It is scarcely necessary to justify the inclusion of a leguminous crop in the rotation which we recommend. The strong radicular system of clover, penetrates the soil deeply, but the chief part it plays is the enrichment of the soil through the fixation of nitrogen by its roots.

We would draw attention to the breaking up of the clover which is a delicate operation, for the roots of the leguminous tend to raise the earth and to produce what is called a hollow soil. This disadvantage must be avoided by straggling and repeated spring rolling.

A large part of the manure buried with the first crop of the rotation will now be transformed into humus, and if we take account of the quantity of nitrogen fixed by the root nodules, we perceive that at the completion of the rotation the returning tobacco will begin to find ready for it an abundance of nitrogenous material.

Finally, from the tobacco point of view alone, an alternate system of culture is preferable, for this method contributes powerfully to the destruction of insects injurious to tobacco and especially of cut worms and flies, in fact for many insects no other means of destruction are available.

OTTAWA, January, 1909.