

DISCUSSION OF EACH SAMPLE

In comparing Sample No. 1 taken from the Gum and Cypress soil and No. 2 taken from the Juniper soil, the chief difference is found in the amounts of Phosphorus, Potassium, and Limestone Required. The Juniper soil quite obviously contains less rock particles than the Gum and Cypress soil. The fact that the Calcium and Magnesium are in almost equal amounts and that no limestone is present is evidence that these elements are not in the carbonate or limestone form.

Samples 3 and 4 taken from fields one year and five years respectively after clearing show very little difference in plant food content. Variation in this short time is not to be expected. Difference in sampling could account for the small variation between these samples. The fact that the older soil is less acid than the new may be due to tillage with its attendant improved aeration.

Very little information is to be obtained from Sample 5 which was taken at a depth of about

four feet. The amounts of plant food are figured for 6 000 000 lbs of soil. Although marl is undoubtedly present in the neighborhood of this tract and possibly upon it, no indication of limestone was found in this one sample. One sample, of course, is not indicative of the whole tract.

Sample 6 was taken from a small piece of land adjoining the Norfolk Southern Farms Tract. It could not be considered Peat because of the very considerable amount of sand, silt and clay in it. This soil had been worked for twelve years but no information as to what cropping or what treatment it had received was available. This land was undoubtedly of slight different origin from the main part of the tract since it contains only about one-third the amount of Organic Carbon as do the peaty soils and very much more of the mineral elements.

Sample 7 likewise is not a deep Peat but more of a Peaty Sandy Loam or a Black Sandy Loam. This field had produced 250 bushels of potatoes per acre this spring and had at the time of examination a very large crop of cowpea hay curing.