

The yield of sweetpotatoes in 1925 following the plowing under of the summer cover crops planted on Section A in 1924 shows a distinct increase over the yield of sweetpotatoes following the incorporation of a volunteer non-leguminous cover crop of "Florida pusley" of 1924. Plowing under a crop of *Crotalaria striata* gave an increase in yield of 30.7 bushels per acre over the plots where the volunteer cover crop was turned under. Velvet beans gave an increase of 7.2 bushels; beggarweed 7.7 bushels, and cowpeas 13.7 bushels per acre over that of the volunteer crop. These increase figures are not actually given in the table but they can be readily calculated therefrom.

The average yield of sweetpotatoes on Section B for 1926 was distinctly lower than that for 1924. However, in 1926 the yield of sweetpotatoes was considerably higher following all planted cover crops of 1925 on Section B than it was following the volunteer cover crop. *Crotalaria striata* increased the yield 19.9 bushels per acre over the volunteer cover crop; velvet beans increased the yield 14.4 bushels; beggarweed 7.3 bushels and cowpeas 13.9 bushels per acre.

In 1927 and 1928, despite unfavorable weather conditions and other possible detrimental factors, the potatoes following the incorporation of *Crotalaria striata* gave significantly higher yields than those following the incorporation of any other cover crop. The yield of potatoes on the *crotalaria* plots exceeded that of those on the "Florida pusley" plots by 12.6 bushels for 1927 and 9.7 bushels for 1928. During 1927 the velvet beans and cowpeas increased the yields of sweetpotatoes only a few bushels over the volunteer cover crop, while in 1928 no increases were obtained from the incorporation of any cover crop except *crotalaria*.

### CORN YIELDS FOLLOWING SUMMER COVER CROPS

Table 5 gives the corn yields on Sections D and C of the experimental field. In 1924 Section D was planted to corn following a uniform cover crop of "Florida pusley". Average yields obtained on the duplicate plots indicate a relatively uniform yield over the section. The maximum difference in average yields of plots was 2.3 bushels per acre.

The corn yields of 1925 on Section C and of 1926 on Section D are much greater following the plowing under of the planted cover crops of the previous seasons than following the volunteer cover crop. In 1925 *Crotalaria striata* increased the yield