2. Linkage of bt₃ and pr.

In the 1952 Maize News Letter No. 26, p. 6, Matthews reported a new character shrunken which was not allelic to sh and sh_2 . This character which occurred in PI-183644 from Turkey, resembles brittle₁, more than shrunken and has been renamed Brittle₃. It is on chromosome 5 but possibly closer to pr than is bt_1 .

A cross of bt₃ x a_1 sh₂ gave 5 selfed ears with the following segregation among the colored seeds. (Since there is only about .25 percent crossing over between a_1 and sh₂ there would have been a very few sh₂ among the colored kernels). Pr + 481, Pr bt₃ 232, pr + 256, pr bt₃ 6, indicating about 15 percent linkage of Pr and bt₃. Exact amount will be determined from backcross data in 1953.

Crosses will be made in 1953 between bt_3 and other bt stocks.

W. R. Singleton