

*Physiologic races of the leaf rust of wheat, Puccinia rubigo-vera tritici, in Mexico.* JOHNSTON, C. O., H. R. HEWLETT, AND N. E. BORLAUG. Studies of 153 leaf rust collections made in Mexico in 7 years of the period 1944-1953, inclusive, revealed the presence of 30 physiologic races. Several races were very similar to other well-known races and therefore were grouped together under the number of the latter. This reduced the number to 11 important and distinctly different race-groups. Physiologic race 11 proved to be by far the most important one, comprising 51.2 per cent of the total of 457 isolates. It was the most abundant race in each of the 7 years and in all but 1 of the 8 states from which collections were received. This race is abundant in the Pacific Coast states but relatively unimportant in other wheat-growing areas of the United States. A small increase in the prevalence of race 11 in central United States in recent years indicates the movement of some leaf-rust spores from Mexico into the United States. On the other hand, a sharp increase in recent years in the prevalence of race 5 in Mexico strongly suggests the movement of leaf rust spores from the United States into Mexico.