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PHYSIOLOGIC SPECIALIZATION IN PUCCINIA CORONATA AVENAE¹

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INTRODUCTION

The existence of physiologic forms of *Puccinia coronata avenae* (Corda) Eriks. and Henn., as in other of the cereal rusts, has been reported by Hoerner (18),³ Popp (30), Parson (28), Murphy (24), Frenzel (15), and Peturson (29). In this bulletin are presented (1) a standardized numerical designation for the physiologic forms of *P. coronata avenae* reported to date in North America; (2) something of the nature of these forms and their relationship to their gramineous and alternate hosts; (3) data showing the prevalence and geographic distribution of the forms in the years from 1927 to 1932, inclusive; (4) the reaction of oat varieties to natural and artificial inoculation; and (5) the gramineous-host range of six forms.

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³ Italic numbers in parentheses refer to Literature Cited, p.47.

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