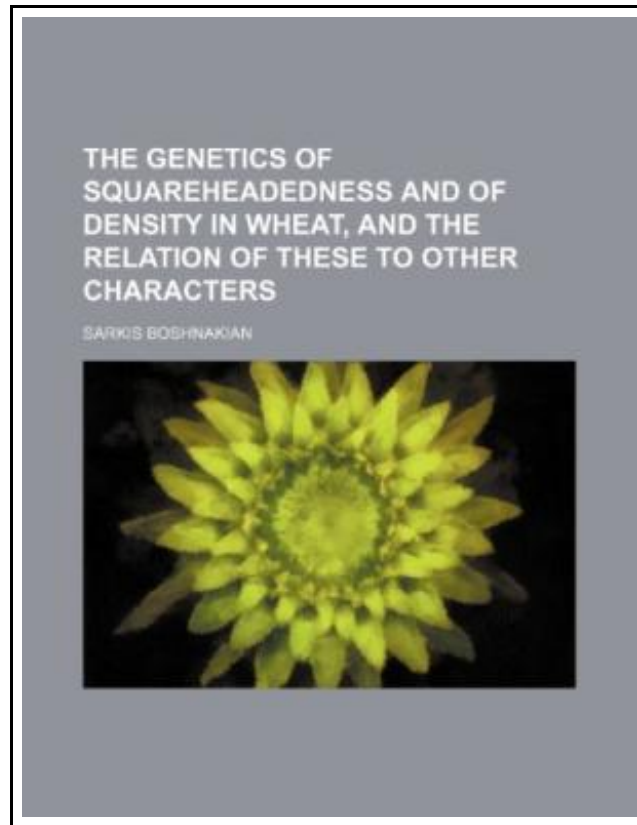


The Genetics of Squareheadedness and of Density in Wheat, and the Relation of These to Other Characters



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Reviews

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(Ms. Ora Buckridge)

THE GENETICS OF SQUAREHEADEDNESS AND OF DENSITY IN WHEAT, AND THE RELATION OF THESE TO OTHER CHARACTERS



Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1922 edition. Excerpt: . dominant. Four of these crosses, of which two were with squareheads and the other two with vulgare, were carried through the F2 generation in order to test whether the assumption of the presence of one factor was correct. The results obtained are condensed and given in table 18. Of the 125 F2 plants tested, 30 were homozygous dense, 67 produced both dense and lax forms, and 28 were homozygous lax. These figures, compared with the calculated proportions--31.2 1 3. 3, 62.5 1 3.9, and 31.2 r 3.3, respectively--show a very close agreement with the 1:2: 1 ratio. The proportion of plants obtained in each cross taken separately agrees also with the theoretical expectancy, the largest departure being but 25 per cent more than its probable error. I I TABLE 18. PROPORTIONS of Homozygous D1-: NsE, HETEROZYGOUS DENSE, AND Homozygous LAX PLANTS of THE F12 GENERATION of SERIES TESTED IN THE F3 GENERATION The behavior of each individual F2 plant of the four crosses under consideration is shown respectively in tables 19, 20, 21, and 22, Of the TABLE 19. BEHAVIOR of F2 PLANTS IN F3. 52R1125 131 72a, MEALY (VULGARE) x 669 heterozygous plants obtained in series I 3172a (table 19), 517 were dense and 152 were lax, the deviation from the calculated ratio being about twice its probable error. In series 13173a (table 20), the ratio between the probable error and the deviation from expectation is 1: 5.22, which is rather high. In...



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