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Methods of Plant Breeding (Second Edition)

By David Clyde Smith, Forrest Rhinehart Immer & Herbert Kendall Hayes (Eds)

Biotech Books/Daya Publishing House, 2009. Hardcover. Book Condition: New. 2nd edition. Plant breeding is an applied science that is carried out efficiently only through the application of other basic plant sciences.;;The book deals with the current status of breeding for insect resistance, the breeding of cotton and sorghum as representatives of crop plants often cross-pollinated, breeding studies with other cross-pollinated crop plants including sugar cane, and a review of the present viewpoint of breeding forage crops, including both legumes and grasses.;;Experimental designs, field-plot techniques, and statistical methods have been presented with particular attention to the needs of beginning students of plant breeding. A Chapter on heritability has been included because of the present-day interest in more precise measures for determining the value of selection for individual characters. These methods of studying heritability differentiate between variability due to genetical and environmental causes.;;This is with the belief that each of the various methods of hybridization, including the pedigree method of selecting during the segregating generations, the bulk method with self-pollinated plants, the backcross method and convergent improvement, has certain advantages and disadvantages that make it desirable under some conditions and less desirable for other breeding problems.;;The book has been useful for UG...



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