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A Histological Study of Heterosis in the Caryopsis of Maize

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A Histological Study of Heterosis in the Caryopsis of Maize

JANE MAGEE

A histological study was made of the kernels of inbred lines of pop corn, dent corn and their reciprocal hybrids to compare the rate of development of organs and tissues.

Hybrid vigor was apparent in the rate of leaf initiation and radicle differentiation and the development of the endosperm tissues. In general, the rate of development of the hybrid surpassed that of the inbred maternal parent. Reciprocal hybrids did not show the same rate of development in all tissues of the caryopsis.

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