

8. The tripsacoid nature of dwarf versions of WF9 and HY.

Mangelsdorf and Galinat (MNL 37) found that in certain instances a reduction in plant stature was associated with tripsacoid features of the ear. Normal and dwarf versions of WF9 and HY were compared with respect to the tripsacoid index.

	WF9	WF9 Dwarf	HY	HY Dwarf
Index	26.00	35.05	29.75	39.80

WF9 dwarf has been found to be a form of brachytic-2 (Lonnquist) and has its locus on chromosome 1 (Lambert). In isolating chromosomes with strong effects from teosinte or from tripsacoid races of maize of Mexico, Central and South America, Mangelsdorf found chromosome 1 to be frequently represented as the chromosome responsible for the tripsacoid effects.

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1. Tripsacum dactyloides homeolog to corn chromosome 9 covers three short arm recessives.

The recessives sh₁, bz and wx on the short arm of chromosome 9 have dominant counterparts on one chromosome in Tripsacum. The long arm will also be analyzed.

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