

2. Evidence of overdominance in corn yield from low x low, low x high, and high x high.

With gene frequencies and degree of overdominance bias in the ranges indicated by previous analyses we may expect the mean of high x high above the mean of low x high, but that a greater genetic variance in low x high may allow 5% or less of low x high (the elites) above the best of high x high with 20 or more loci involved. Lonnquist (Agron. Jour. 45:539-542. 1953) has no counter evidence against overdominance at all loci in his few data although he and his statistical editor may prefer that conclusion supported by mis-interpretation of Hull ("Heterosis", pp. 465-466. 1952). There may be loci of course where overdominance does not obtain but evidence for that will not be so easily segregated.

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