

研究论文

关中地区小麦品种产量与产量结构遗传改良的研究

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摘要 对陕西关中地区60多年来小麦品种产量及产量结构的遗传改良进行了分析。结果表明, 在现代栽培技术条件下, 目前的推广品种比地方品种增产近1倍(95%), 生物学产量和收获指数分别增加23.1%和58.4%, 90年代以前产量的提高主要来源于千粒重增加, 在90年代则千粒重和穗粒数均有较大幅度增加, 单位面积穗数相对稳定。现代矮秆品种产量结构的分析表明, 产量的进一步提高应在注意群体穗数与穗粒数、千粒重的协调关系上着重提高穗粒数。还对625~650 kg/667 m²的产量结构进行了优化, 并对目前该地区所育成的部分大穗品种的产量结构进行了分析。

关键词 [小麦](#) [遗传改良](#) [产量](#) [产量结构](#) [关中地区](#)

分类号

Studies on Genetic Improvement of Yield and Yield Components of Wheat Cultivars in Mid-Shaanxi Area

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Abstract The present study was aimed at studying the genetic improvement in yield and yield components of wheat cultivars grown in Mid-Shaanxi area over last 60 years. The results showed that there were two times (95%) of increase of yield or new cultivars in comparison with the landraces under the current culture techniques. The biomass was increased by 23.1% and the harvest index increased from 0.272 to 0.429 when improved cultivars compared with the landraces. The main changes of yield components were increase of thousand kernel weight before 1990 s and increase of thousand kernel weight and kernel number per spike at same time in 1990 s. The number of spikes in unit area almost unchanged. The yield components of modern dwarf cultivars were analyzed, which showed that the kernel number per spike should be increased on the basis of coordinating yield components to increase yield in future. The yield components were also optimized for 625~650 kg and the yield components of big spike cultivars in this area were analyzed.

Key words [Wheat](#) [Genetic improvement](#) [Yield](#) [Yield component](#) [Mid-Shaanxi area](#)

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