## 关于稻麦理论分蘖数计算公式的一些补充

## 莫惠栋

江苏农学院农学系

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设N\_i为第i次分蘖的理论数,k为分蘖的最高次数,n为主茎出叶数,则N\_i和k均是n的函数。如果主茎芽鞘节 和分蘖的分蘖鞘节均不发生分蘖,则 $\mathbf{k}$ =( $\mathbf{n}$ —1)/3, $\mathbf{N}$ i= $\mathbf{C}$ \_( $\mathbf{n}$ -2i-1)~i( $\mathbf{i}$ =1,2,…, $\mathbf{k}$ )。如果主茎芽鞘节和分蘖的分蘖鞘节均能 发生分蘖,则 $k=(n-1)/2,N_i=C_(n-i-1)\sim i(i=1,2,\cdots,k)$ 。以上k值均只取整数,不计小数。本文详细解释了建立上述公式 的生物学基础,并以代数方法证明了理论分蘖数N\_i和相应的组合数C\_(n-2 i-1)~i或C\_(n-i-1)~i为恒等关系。

关键词 叶蘖同伸规则, 分蘖数, 水稻, 小麦, 大麦 分类号

## A Supplement for the Calculation of Theoretical Number of Tillers in Rice, Wheat and Barley

Mo Huidong

Department of Agronomy, Jiangsu Agricultural College, Yangzhou

**Abstract** Let N i be the theoretical number of the ith order tillers, i.e., the number of til-lers from leaf tiller synchronouslyemerged regularity, k the highest order of tillers andn the number of emerged leaves on main culm of a plant. Both N\_i and k 本文作者相关文章 are thefunctions of n. When no tiller is produced at the nodes of coleoptile and scale-leaf,k=(n-1)/3 and N\_i=C\_(n-2 i-1)~i(i =1, 2,..., k). When the nodes of coleoptile and scale-leaf can produced tillers, k=(n-1)/2 and  $N_i=C_n-i-1>-i(i=1,2,...,k)$ . T heabove ks are only taken as integers, regardless of decimals. In the paper, the biologi-cal base for establishment of the calcu lation was explained in detail, and the identical relationship between the theoretical number of tillers, N\_i, and the correspon dingnumber of combinations, C\_(n-2 i-1)~i or C\_(n-i-1)~i, was algebraically proved.

**Key words** Leaf-tiller synchronously-emerged regularity Number of tillers Rice Wheat Barley DOI:

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