

在BLUP中亲属多次记录利用研究

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 一般的最优线性无偏预测(BLUP)法由于微机功能不足或出于成本的考虑, 常常只能利用一次记录, 而且仅仅用于种公畜的选择, 多次记录所提供的大量遗传信息白白地丢失, 无疑是一重大损失。本文推导了利用多次记录预测公、母畜育种值的简化BLUP法, 其特点是省去了母体效应方程, 从而大大简化了矩阵, 使整个运算在微机甚至类似夏普PC-1500袖珍机上就可迅速完成, 其准确度无疑要高于一次记录法。本法不仅适用于羊、猪业, 对于世代间距长。后裔数目少的奶牛育种同样有应用价值。

关键词

分类号

Study on Utilization Repeated Records of Relatives in BLUP

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Abstract

 To make full use of repeated records of relatives is very important in estimating accurately breeding value. This paper induces a set of absorbing equations, with which the repeated records of many relatives of breeding animals may be absorbed in the records of themselves, instead of establishing one genetic effect equation and one maternal effect equation for each dam. So that can greatly decrease the orders of matrix, and to more accurately estimate breeding value with BLUP. It can be fulfilled with a minicomputer.

Key words

DOI:

通讯作者

扩展功能

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