

INHERITANCE AND VARIABILITY OF PROTEIN AND OIL CONTENTS IN SOYBEAN SEEDS

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ABSTRACT

Three pairs of reciprocal crosses of Xiaojinhuang No.10 with Dalihei, Heipiqing and Heimoshidou were analysed for the contents of oil and protein in seeds of parents, F_1 and F_2 generations. The results have been taken as follows: In F_1 's, protein contents showed negative heterosis and oil contents positive. The cytoplasmic inheritance of oil and protein contents were observed obviously. Each of quality characters was not only controlled by additive genes but also partial dominant and epistatic dominant genes. The heritability of quality characters were moderate or higher.

大豆新品种—吉林26号

吉林26号大豆新品种是吉林省农科院大豆研究所于1983年,以黑河3号为母本,铁交7621为父本进行有性杂交,以所内选育为主,结合南繁南育以及在我省东部进行异地鉴定,选育而成。原品系代号公交8324—9。1991年4月通过吉林省农作物品种审定委员会审定,并命名为吉林26号。

该品种无限结荚习性,株高100—110厘米。主茎发达,有2—3个分枝,茎秆有韧性,较抗倒伏。主茎节数多,上下部结荚均匀。紫花、灰毛、圆叶。子粒圆形,种皮黄色,有光泽,脐黄色。对大豆花叶病毒病、霜霉病、细菌斑点病、褐斑和大豆食心虫均有较好的抗性。子粒品质优良,完全粒率高达95%以上。百粒重23克左右。蛋白质含量44.80%,脂肪含量18.30%。

吉林26号一般公顷产量2600公斤,最高可达3500公斤。1988—1990三年省区试18个点次平均比对照品种合丰25号增产12.9%。1989—1990二年生产试验10个点次平均比对照品种合丰25号增产16.5%。

吉林26号为早熟品种。从出苗至成熟115—119天。适于我省东部延边、浑江、通化和吉林地区山区、半山区早熟区种植。条播,公顷播种量65公斤,公顷保苗20万株。应严格按照要求留苗,切忌过密。公顷施有机肥15吨作底肥,播种时每公顷施磷酸二铵100公斤作口肥。再加之精细管理,即可获得高产。

(吉林省农科院大豆所育种室)