J. Oilseeds Res. 5(1988) : 183 - 184 ISSN 0970 - 2776

SIPING BOROK' (JHUM TIL) - SOURCE OF SOME VALUABLE GENES

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Sesamum is a major oilseed crop of Tripura. Improved sesamum varieties are relatively new to the State. However, some varieties of sesamum locally known as 'Siping borok' (Jhum til) have been cultivated by the Jhum farmers as well as by the settled cultivators of the State since very old time. The seeds have been used for religious ceremonies besides extracting oil. Jhum til is mainly grown in mixture with rice, mesta, cotton and vegetables on slopes and tops of the uplands. The present note deals with the agronomic features of this sesamum.

The seeds were collected from different localities and grown during the crop season (July-Nov.) in 1987 at ICAR Research Complex, Tripura Centre alongwith 26 improved sesamum varieties in 2 replications. No variation was observed among the local collections except for the seed colour. Two types of seed colour viz. white and black were observed in the material. The leaves were trilobiate with highly serrated margins. The plants were characterised by very slow growth rate, tall habit and late maturity. Flowering has got 2 or more peaks. There is no lodging. Capsules and seeds were smaller Maturity is nonsynchronous. The branches were confined to the upper portion of the stem which gave an appearance of a broom. The stem was rectangular with ridges. The important Agronomic traits are given in Table 1.

TABLE 1 Agronomic features of 'Jhum til'

Days to first flower		75
Days to 50% flowering		.85
Plant height (cm)	· ·	151
No. of branches/plant	· /	5
No. of capsules/plant		46
Capsule length (cm)	e reducia	2.0
No. of seeds Capsule		36
1000 sced weiget		1.34 g.
single plant yield	- \ .	2 2 g.
Days to maturity		127

It was observed that the plant was resistant/tolerant to phytophthora blight and tolerant to leaf curl under field conditions. All the Jhum til plants (200) were free from the infection of phytophthora while the improved varieties (26) grown alongwith it suffered heavily due to phytophthora blight. This might be the main reason for its

wide adoption by the farmers inspite of its poor yield. It could be successfully utilised as source of resistance to these serious diseases of sesamum since other source of resistance to these diseases are limited.

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