

RESTORED DH-1 SESAME VARIETY

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DH-1 sesame variety was restored from a source of original variety which was collected in Duc Hue district, Long An province by the Institute of Agricultural Sciences for Southern Vietnam (IAS) in the period of 2009-2011.

DH-1 variety was grown on a degraded grey soil in Long An province in 2010. Seed yield was 1,257 kg per hectare, increasing by 32.2% compared to the original variety (equivalent to 951 kg/ha). DH-1 sesame variety has a high oil content (48.8%), relatively high drought tolerance (level 2), high adaption and resistance to *Rhizoctonia sp.* & *Pythium sp.* *Fusarium sp.*, high resistance (level 3) to wireworm (*Spodoptera litura* and *Spodoptera exigua*). DH-1 sesame variety is short in shape and has vigorous branches (6-10 branches per plant). The number of fruit case per plant is 115-126 and the number of grain per fruit case is 108-117. The weight of 1,000 grains is 2.75-2.95 grams. Growth duration of is DH-1 relative short (75 days).

Because of these characteristics, DH-1 can adapt to a wide range of ecological conditions of southern of Vietnam. This variety can be grown in the winter-spring or in spring-summer crops in Mekong Delta. Being grown on poor gray soils in spring-summer season in Long An province where water availability is shortage, this variety reached a yield of 1,223-1,287 kg per hectare. When being grown on alluvial soils of An Giang province, seed ield of DH-1 mounted up to 2,200 kg per hectare on average.

Due to the short shape and vigorous branches, DH-1 sesame variety needs to be planted at a low density. Appropriate plant density on poor gray soils in Long An is 83,000 plants/ha. If sowing by row, the distance between rows is suggested at 30 cm/40 cm. In case of broadcasting, distance among plant is about 35 cm. Appropriate dose of chemical fertilizers for this variety is 90 N - 40 P₂O₅ – 60 K₂O (kg/ha).



Photo 1. On-site assessment of DH-1 sesame variety by technical staff and farmers



Photo 2. Mr. Nguyen Thanh Tung, Director of Long An Agricultural Extension joined on-field assessment of DH-1 sesame variety



Photo 3. Ms. Phuong Lan was guiding farmers to choose DH-1 sesame lines and varieties



Photo 4. Initial material field of DH-1 sesame variety