

## Development of new adzuki bean cultivar Kaohsiung No. 5

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### ABSTRACT

The Kao-Ping District is the major adzuki bean planting area in Taiwan for about twenty years, which occupied about 98% to the provincial total, and almost planted as one of the Winter cash crops. In order to satisfy both of farmers and consumers, the Kaohsiung DAIS had endeavored its effort to develop higher yield, better agronomic traits and seed quality variety of adzuki bean. Under this breeding goals the new cultivar Kaohsiung No. 5 was released in December 1988.

Kaohsiung No. 5 was crossed between Pintung Native and Kaohsiung Selection No. 1 in the Winter crop of 1974, and the superior line KS 542 was selected in the Winter crop of 1978. Yield tests include preliminary, middle, advanced and district trials were carried out from 1979–1986, the average yield of this line was 2784 kg/ha which was 21.2% and 16.3% higher than the check varieties Pintung Native and Kaohsiung No. 3, respectively.

Kaohsiung No. 5 is adaptive in Fall Winter crop season of Kao-Ping area, and with 40 cm of plant height, 90 days of growth duration and 141 gram of 1000-grain weight were observed. Besides, it possesses many good agronomic characters; uniform defoliate in maturity, more resistant to powdery mildew, high quality of seed, etc. Which would be favorite for both farmers and consumers.

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