

HOME

About Journal@rchive

Journal List

Journal/  
Society Search

GO

News



Science Links Japan

JST Japan Science and Technology Agency

## Japanese journal of crop science

The Crop Science Society of Japan [Info](#) [Link](#)[TOP](#) > [Journal List](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN: 1349-0990

PRINT ISSN: 0011-1848

### Japanese journal of crop science

Vol.67 , No.3(1998)pp.384-391

[\[ Full-text PDF \(1085K\) \]](#) [\[ References \]](#)

#### Geographic Variations in the Flowering and Ripening Behaviors of *Amphicarpaea edgeworthii* Benth.

Teruo ARASE and Naoto INOUE

1) Fac. of Agr., Kyoto Univ.

2) Shinshu Univ.

[Published: 1998/09/05]

[Released: 2008/02/14]

**Abstract:**

Strains of yabumame (*Amphicarpaea edgeworthii* Benth.), an edible resource of geocarpic wild legume, were collected from various stands in Japan and grown to investigate the geographic variations in its flowering and ripening behaviors. Northern strains needed fewer days after sowing to flower. The flowering period lasted longer for northern strains, where the duration varied among strains. Significantly negative correlation existed between days after sowing to flowering and flowering duration. The average 1,000-seed weight including all strains was 22g for aerial seeds and 143g for subterranean seeds. The former was a hard seed since scratching the seed coat increased the germination percentage sharply, whereas the latter germinated at high percentage without any pretreatment. The 1,000-seed weight did not correlate with the latitude of home habitat. Subterranean pod including 2 mature seeds, twin bean, was produced at a higher probability in the case of the strains which had a heavier 1,000-seed weight. The degree of subterranean seed to the total of its number and weight correlated vaguely to the latitude of each strains's home habitat. The deviation of the rate among strains was wider in southern strains.

**Keywords:**

*Amphicarpaea edgeworthii* Benth., Development, Flowering duration, Geocarp, Germination, Hard seed, Latitude.

[\[ Full-text PDF \(1085K\) \]](#) [\[ References \]](#)

Copyright© Crop Science Society of Japan