

Global warming and the phenology of Yard-long Beans (*Vigna unguiculata* subsp. *cylindrica* (L.) Verdc.)

Title	Global warming and the phenology of Yard-long Beans (<i>Vigna unguiculata</i> subsp. <i>cylindrica</i> (L.) Verdc.)
Author Order	2 of 3
Accreditation	
Abstract	<p>A phenomenon in which a temperature difference between the present and the past exists is called Global Warming. Today's temperature is relatively higher than before. This temperature change causes climate change. Climate change due to global warming has caused changes in various areas of life, including plants. One of the plants' most influential physiological processes is the phenology of flower patterns. Studies on the effects of climate change caused by global warming on organisms can be represented by altitude gradients. This study aimed to determine the effect of altitude on the phenology of flower development in Yard long beans (<i>Vigna unguiculata</i> subsp. <i>Cylindrica</i> (L.) Verdc.). The parameters observed were the vegetative and phenology of plant development, namely the flowering age (Scale N days after planting), the number of flowers per plant, and flower size. The research was conducted in six places with different altitudes, ± 50 masl, ± 200 masl, ± 400 masl, ± 600 masl, ± 800 masl, and $\pm 1,000$ masl. The research period lasted for three months. The research was conducted using the survey method. The independent variable used was the difference in elevation gradient, while the dependent variable was the cultivation pattern of yard-long beans. The sampling technique is purposive sampling. The data obtained were analyzed using One-Way analysis of variance (ANOVA) and regression correlation analysis. The analysis showed that altitude affected flowering time, number of flowers, and flower size. Yard-long beans grow and develop optimally at 50-400 meters above sea level.</p>
Publisher Name	Badan Kemitraan Inovasi dan Kewirausahaan Universitas Galuh
Publish Date	2023-10-31
Publish Year	2023
Doi	DOI: 10.25157/ijcc.v1i2.3514
Citation	
Source	Interdisciplinary International Journal of Conservation and Culture
Source Issue	Vol 1 No 2 (2023): IJCC October
Source Page	73-79
Url	https://ojs.unigal.ac.id/index.php/ijcc/article/view/3514/2451
Author	Dr Drs EMING SUDIANA, M.Si