

## REACTIONS OF BAMBARA GROUNDNUT ACCESSIONS TO PHOTOPERIODS

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### ABSTRACT

*In two light-controlled experiments conducted at the Teaching and Research Farm of the Department of Crop Science, Faculty of Agriculture, University of Nigeria, Nsukka, the effects of six photoperiods (8, 10, 12, 14, 16 hours and natural photoperiod) on growth and flower induction in six accessions of bambara groundnut (TVsu 1023, TVsu 745, TVsu 323/764, TVsu 11, TVsu 9 and Yaudu (local) were studied at two different periods of the year. In experiment one, the design used was a 6 x 6 factorial arrangement laid out in a completely randomized design (CRD) with 3 replications. The second experiment was a 5 x 6 factorial in CRD with three replications. In the first photoperiodic experiment (May 9, 1992 and August 10, 1992), Yaudu (local), TVsu 745, TVsu 11, TVsu 1023 and TVsu 9 showed a quantitative short day response to the number of leaves produced per plant, number of days to flower bud emergence and to anthesis. In the second growth chamber experiment (October 1992 to January 1993), TVsu 745, TVsu 764, TVsu 11, TVsu 1023 and Yaudu local exhibited a quantitative short day response in their number of days to flower bud emergence and to anthesis. As a result, they could be planted around July to take advantage of the short photoperiods of October to December for good crop.*

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