

ESTABLISHMENT OF NATURAL NODULATION AND N₂-FIXATION IN SOYBEAN (GLYCINE MAX (L) MERRILL) BY REPEATED CULTIVATION AND PERIODIC INOCULATION

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ABSTRACT

*In Peshawar valley, soybean crop lacks natural nodulation and normally artificial inoculation is required for effective nodulation and nitrogen fixation of the crop. In order to strengthen and stimulate the affinity between the roots and specific rhizobia (*Bradyrhizobium japonicum*) to induce natural nodulation in the crop, a long-term field experiment with periodic inoculation was carried out at NIFA using two soybean cultivars (Wahab-93 and Kharif-93). The results revealed that natural nodulation and N₂-fixation could be effectively established by repeated cultivation of the crop for three successive years on the same piece of land.*