

Research Communication

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POLLEN PRODUCTION IN SOME ALLERGENICALLY SIGNIFICANT PLANTS OF ASANSOL INDUSTRIAL BELT, WEST BENGAL

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Pollen productivity of 30 probable allergenic pollen producing plant taxa growing in Asansol Industrial belt was determined. The number of pollen per anther, anther number per flower along with the detailed particulars like anther length, pollen grain size, mode of pollination, habit of plant were also recorded during determination of pollen productivity. It has been observed that the pollen productivity was directly related to anther length and inversely related to pollen grain size. The habit of the plants is also correlated to the pollen production number of the particular species. Trees are the highest pollen producers followed by the shrubs and the herbs. Ailanthus excelsa (1337850 pollen / flower, Tree) is the highest pollen producer followed by Bauhinia variegata (844645 pollen / flower, Tree), Ricinus communis (599040 pollen/flower, Shrub), Argemone mexicana (463400 pollen/ flower) etc. On the other hand Casuarina equisetifolia (1061 pollen/ flower) is the lowest pollen producer followed by Lantana camara (1835 pollen/flower), Alstonia scholaris (4240 pollen/Flower) and Ageratum conyzoides (4825 pollen/Flower) etc. Variation has been also noticed in anemophilous and entomophilous plants in terms of pollen grain production.
