

PHENOLOGICAL BEHAVIOUR OF SELECTED TREE SPECIES IN TROPICAL DECIDUOUS FOREST OF HASTINAPUR REGION IN WESTERN U.P.

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Abstract : Vegetative and reproductive phenology of 20 selected tree species in tropical deciduous forest of Hastinapur region in western U.P. was monitored through fortnightly visit during November 2009 to December 2011 revealed that there exists a strong seasonality for leaf flush, leaf fall, flowering and fruiting phenophases. A considerable variation was found in leaf flushing, leaf fall, flowering and fruiting behaviour that could be partly attributed to biotic and abiotic factors. Peak activity of leaf fall and leaf emergence that occurred in the early dry period, could be to take full advantage of the first rainy season for vegetative growth and reproduction. Interphenophases duration between phenological events varied for different selected dominant tree species. The fruiting phenology follows closely the flowering phenology. The duration of maturation of leaves was the shortest, while that of fruit ripening was the longest.

Keywords: Hastinapur, phenology, tree species, tropical deciduous forest, etc.

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