

999. **Sharda, V.N., Samraj, P., Chinnamani, S. and Lakshmanan, V. 1988.** Hydrological behaviour of the Nilgiri sub-watersheds as affected by bluegum plantations. Part II. Monthly water balance at different rainfall and runoff probabilities. *J. Hydrology*, 103:347-355.

Frequency analyses of rainfall and runoff at Ootacamund (the Nilgiris) under conditions of natural grassland and savannah "Shola" land have been carried out. Availability of water at different probabilities during different months after conversion of natural grasslands into bluegum (*Eucalyptus*) plantations has also been worked out. The minimum expected available water is observed during January-April (the lowest during March). Plantation of bluegum in natural grasslands further reduces water yield by about 23% (at 50% chance) during these months which may affect the water supply into the downstream hydroelectric reservoirs in the region. Hence, caution may have to be exercised while planning large-

scale conversion of natural grasslands into bluegum plantations.

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