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PDF (Size:69KB) PP. 278-283 DOI: 10.4236/jep.2010.13033 Author(s) Vardan Singh Rawat, Yashwant Singh Rawat ABSTRACT Forest vegetation of a community managed forest was studied along four aspects. Quercus leucotrichophora and Pinus roxburghii was the dominant species on each of the two aspects. Across the aspects the total tree density ranged between 193 to 324.3 ind/ha, sapling density between 119 to 258.6 ind/ha and seedling density from 249.98 to 845 ind/ha. The shrub density varied from 199.99 to 406.32 ind/ha and herb density from 9466.66 to 52483.33 ind/ha. The total basal area varied from 0.06 to 7.15 m2/ha at eastern and north facing aspect for Quercus leucotrichophora and Pinus roxburghii respectively showing that the forest is in young stage. Species diversity value for tree layer varied from 0.21 to 1.23 while concentration of dominance value ranged from 0.56 to 0.94. It was noticed that with an increase in species diversity concentration of dominance value decreases indicating inverse relationship between					About JEP News	
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Refe	 eferences H. C. Rikhari, B. S. Adhikari and Y. S. Rawat, "Woody Species Composition of Temperate Forests along an Elevational Gradient in Indian Central Himalaya," Journal of Tropical Forest Science, Vol. 10, No. 2, 1997, pp. 197- 211. 				Technology (PTT 2013)	
[2]	J. S. Singh and S. P. Singh, " Fores 1987, pp. 80-192.	gh and S. P. Singh, "Forest Vegetation of the Himalaya," Botanical Review, Vol. 53, No. 1, b. 80-192.				
[3]	A. K. Saxena, S. P. Singh, and J. Implications for Management," Jour	K. Saxena, S. P. Singh, and J. S. Singh, "Population Structure of Forest of Kumaun Himalaya: plications for Management," Journal of Environment Management, Vol. 19, 1984, pp. 307-324.				
[4]	H. G. Champion and S. K. Seth, " A Revised Survey of the Forest Types of India," Government of India, Pub. Division, New Delhi, 1968, p. 404.					

- [5] J. E. M. Arnold and W. C. Stewart, " Common Property Resource Management in India," Oxford Forestry Institute, Oxford, 1991, p. 14.
- [6] B. S. Jina, "Monitoring and Estimation of Carbon Sequestration in Oak and Pine Forest of Varying level of Disturbances in Kumaun Central Himalaya," Ph.D. Thesis, Kumaun University, Nainital, 2006.
- [7] B. S. Jina, P. Sah, M. D. Bhatt and Y. S. Rawat, " Estimating Carbon Sequestration Rates and Total Carbon Stockpile in Degreded and Non-Degreded Sites of Oak and Pine Forest of Kumaun Central Himalaya," Ecoprint, Vol. 15, 2008, pp. 75-81.
- [8] K. S. Valdiya, " Geology of Kumaun Lesser Himalaya," Wadia Institute of Himalayan Geology, Dehradun, 1980, p. 291.

- [9] A. K. Saxena and J. S. Singh, " A Phytosociological Ana- lysis of Woody Species in Forest Communities of a Part of Kumaun Himalaya," Vegetation, Vol. 50, No. 1, 1982, pp. 3-22.
- [10] J. T. Curtis and R. P. McIntosh, " The Interrelations of Certain Analytic and Synthetic Phytosociological Characters," Ecology, Vol. 31, No. 3, 1950, pp. 438-455.
- [11] J. T. Curtis, " The Vegetation of Wiscousin. An Ordination of Plant Community," University Wisconsin Press, Madison, 1959, p. 657.
- [12] R. H. Whittaker, " Evolution and Measurement of Species Diversity," Taxon, Vol. 21, No. 2-3, 1972, pp. 213-251.
- [13] C. E. Shannon and W. Weaver, " The Mathematical Theory of Communication," University of Illinois Press, Urbana, 1949.
- [14] E. H. Simpson, " The Measurement of Diversity," Nature, 1949, pp. 163-688.
- [15] S. P. Singh, B. S. Adhikari and D. B. Zobel, "Biomass Productivity, Leaf Longevity and Forest Structure in Central Himalaya," Ecological Monographs, Vol. 64, No. 4, 1994, pp. 401-421.
- [16] G. Kharkwal, " Qualitative Analysis of Tree Species in Evergreen Forests of Kumaun Himalaya, Uttarakhand, India," African Journal of Plant Science, Vol. 3, No. 3, 2009, pp. 49-52.
- [17] N. Upreti, " A Study on Phytosociology and State of Regeneration of Oak Forests of Nainital," Ph.D. Thesis, Kumaun University, 1982, p. 481.
- [18] P. K. Ralhan, A. K. Saxena and J. S. Singh, " Analysis of Forest Vegetation in and around Nainital in Kumaun Himalaya," Proceedings of the Indian National Science Academy, Vol. 48, 1982, pp. 122-