Dadhwal, K.S., Raizada, A., Pratap Narain and Datta, D.P. 1994. Agroforestry systems of Doon Valley and plains of western Uttar Pradesh. In: Agroforestry Traditions & Innovations (eds.) Pratap Narain, K.S.Dadhwal and R.K.Singh, ICAR-UNDP Advance Centre on Agroforestry, CSWCRTI. Dehradun: 12-18.

discusses the effect of trenching (tree root pruning) aspect and direction of tree associated agricultural crops under various agroforestry systems such as agri-

silvi, silvi-pastoral, agri-horti, agri-silvi-horticultural systems. It is revealed that Eucalyptae Grewia optiva and Bauhinia purpurea reduce crop yields near tree line and the effect is more pronounced upto 4m distance. Eucalyptus root pruning enhances rabi wheat yields Better crop yields were recorded under the canopy of B.purpurea in comparison to G.optiva. Poplar trees produce about 3-4 t/ha/year of leaf litter (leaves + twigs) which returns about 29, 2.8, 21, 24 and 29 kg/ha/year of N,P,K,Ca and Mg, respectively. This litter decomposes rapidly (90% of the weight lost in the first year) and nutrients being released are available to the underlying crops.