

Table S1. Floristic composition of tree species at different altitude and aspects.

Sr. No.	Tree species	Altitudinal ranges (m asl)												Total
		AR ₁				AR ₂				AR ₃				
		(1000–1300 m a.s.l.)				(1300–1600 m a.s.l.)				(1600–1900 m a.s.l.)				
		E	W	N	S	E	W	N	S	E	W	N	S	
1	<i>Pinus roxburghii</i>	+	+	+	+	+	+	+	+	+	+	+	+	12
2	<i>Cedrus deodara</i>	–	–	+	–	–	–	–	–	–	–	+	–	2
3	<i>Quercus leucotrichophora</i>	–	–	+	–	+	–	+	–	–	+	+	–	5
4	<i>Acacia catechu</i>	–	–	–	+	–	–	–	+	–	–	–	–	2
5	<i>Myric aesculenta</i>	+	–	–	–	–	+	–	–	–	–	–	–	2
6	<i>Bauhinia variegata</i>	–	–	–	–	–	–	–	+	–	–	–	–	1
7	<i>Albizia chinensis</i>	+	–	–	–	+	–	–	–	–	–	–	–	2
8	<i>Acer oblungum</i>	–	–	+	–	–	–	–	–	–	–	–	–	1
9	<i>Erythrina indica</i>	–	–	–	+	–	–	+	+	–	–	–	–	3
10	<i>Bombax ceiba</i>	–	–	–	–	–	–	–	+	–	–	–	–	1
11	<i>Butea monosperma</i>	–	–	–	–	–	–	–	+	–	–	–	–	1
	Total	3	1	4	3	3	2	3	6	1	2	3	1	

E (eastern aspect), W (western aspect), N (northern aspect), S (southern aspect), + (species present), – (species absent); altitudinal ranges of study area: AR₁ (1000–1300 m above mean sea level (m a.s.l.)), AR₂ (1300–1600 m a.s.l.) and AR₃ (1600–1900 m a.s.l.)

Table S2. Floristic compositions of shrub species at different altitudes and aspects.

Sr. No .	Shrub species	Altitudinal ranges (AR)												Total
		AR ₁ (1000–1300 m a.s.l.)				AR ₂ (1300–1600 m a.s.l.)				AR ₃ (1600–1900 m a.s.l.)				
		E	W	N	S	E	W	N	S	E	W	N	S	
1	<i>Lantana camara</i>	+	+	–	+	–	–	–	–	–	–	+	+	5
2	<i>Berberis aristata</i>	–	+	+	+	+	–	+	+	–	–	+	+	8
3	<i>Carissa carandas</i>	+	+	–	–	–	+	–	–	+	–	+	+	6
4	<i>Coriaria nepalensis</i>	–	–	+	–	+	–	+	–	+	+	–	–	5
5	<i>Myrsine africana</i>	–	–	+	–	+	–	–	+	–	+	–	+	5
6	<i>Indigofera cassioides</i>	–	+	–	–	–	+	–	–	–	–	+	+	4
7	<i>Sarcococca saligna</i>	–	–	+	–	–	–	–	–	–	–	–	–	1
8	<i>Daphne cannabina</i>	–	–	+	–	+	–	–	+	–	–	–	–	3
9	<i>Woodfordia fruticosa</i>	–	–	–	+	–	–	+	–	–	+	–	–	3
10	<i>Rubus ellipticus</i>	–	–	+	–	+	–	+	–	–	–	–	–	3
11	<i>Osyris arborea</i>	–	–	–	+	–	+	+	–	–	–	–	–	3
12	<i>Randia tetrasperma</i>	+	–	–	+	–	–	–	+	–	–	–	–	3
13	<i>Adhatoda vasica</i>	+	–	–	+	–	–	–	–	+	–	–	–	3
14	<i>Cassia floribunda</i>	–	–	–	–	–	–	+	–	–	–	–	–	1
15	<i>Woodfordia floribunda</i>	+	+	–	–	–	–	+	–	–	–	–	–	3
16	<i>Artemisia vulgaris</i>	–	–	–	+	–	+	–	–	–	–	–	–	2
17	<i>Prinsepia utilis</i>	–	–	–	+	–	+	–	–	–	+	–	–	3
18	<i>Rabdosia rubescens</i>	+	+	–	+	–	+	–	+	–	–	–	–	5
19	<i>Boenninghausenia albiflora</i>	–	–	+	–	+	–	–	+	+	–	–	–	4
20	<i>Hypericum oblongifolium</i>	–	–	–	–	–	–	–	+	–	–	–	–	1
21	<i>Randia tetrasperma</i>	+	–	–	+	–	–	–	–	–	+	–	–	3
Total		7	6	7	10	6	6	7	7	4	5	4	5	

E (eastern aspect), W (western aspect), N (northern aspect), S (southern aspect), + (species present), – (species absent); altitudinal ranges of study area: AR₁ (1000–1300 m above mean sea level (m a.s.l.)), AR₂ (1300–1600 m a.s.l.) and AR₃ (1600–1900 m a.s.l.)

Table S3. Distribution of vegetation communities and forest types with aspects and altitudinal ranges.

		Vegetation community/Forest type							
		Eastern (E)		Western (W)		Northern (N)		Southern (S)	
		Vegetation community	Type*	Vegetation community	Type*	Vegetation community	Type*	Vegetation community	Type*
Altitudinal ranges (m a.s.l.)	AR ₁ (1000-1300 m asl)	Chir pine community		Chir pine community		Chir pine-Oak community		Chir pine-Khair community	
	AR ₂ (1300-1600 m a.s.l.)	Chir pine-Oak community	9/C1 Himalayan subtropical pine forest; Subtype 9/C1b Upper or Himalayan chir pine forest	Chir pine-Myrica community	9/C1 Himalayan subtropical pine forest; Subtype 9/C1b Upper or Himalayan chir pine forest	Chir pine-Oak community	12C1 Lower western Himalaya temperate; Subtype 12C1a Ban oak forest (Quercus leucotrichophora)	Chir pine, Khair and miscellaneous mixed broad leave vegetation community	9/C1 Himalayan subtropical pine forest Subtype 9/C1a Lower shiwalik Chir pine forest
	AR ₃ (1600-1900 m a.s.l)	Chir pine community		Chir pine community		Chir pine - Oak community		Chir-pine community	

*= as per the Champion and Seth [57] classification.

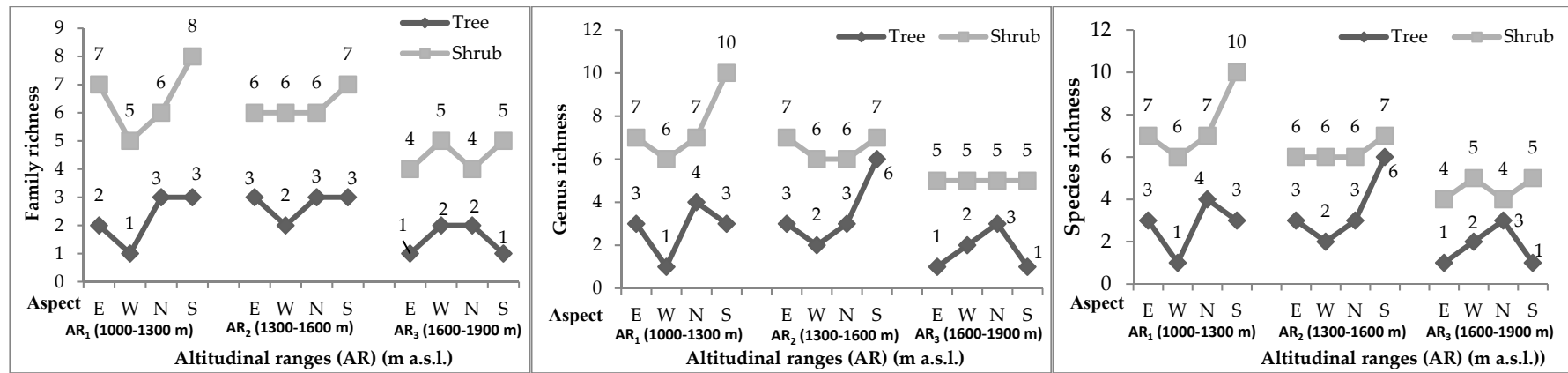


Figure S1. The total richness of family, genus, and species of trees and shrubs to aspects and altitudinal ranges on the mid-hills of Himachal Pradesh; where E (eastern aspect), W (western aspect), N (northern aspect), S (southern aspect).