

## Appendix 2. Estimated characteristics of different forest types in Davos.

**Table A2.1.** Stock, annual growth rate and harvestable amount of timber for different forest types in Davos under a trend scenario (based on Grêt-Regamey et al. 2013). We estimated wood growth by allocating the average growth rate of the forest of Davos between 1980 and 2006, which was 4.87 m<sup>3</sup>/ha (LFI 2008), to different forest types proportionally to their stock of wood and assuming a 50% lower growth rate in newly afforested plots (FOEN 2011). In the climate scenario, we increased these growth rates by 1.2 m<sup>3</sup>/ha y accounting for a temperature induced upwards shift of the altitudinal vegetation zones (LFI 2008). The harvestable amount of timber is 15% less than the actual growth volume due to non-merchantable tree portions.

Forest type	Wood stock [m <sup>3</sup> /ha]		Wood growth [m <sup>3</sup> /ha y]		Harvestable timber amount [m <sup>3</sup> /ha y]	
	2000	1980 – 2006	<i>forested areas</i>	<i>woodless areas</i>	<i>forested areas</i>	<i>woodless areas</i>
			2000 – 2050	2000 – 2050	2000 – 2050	2000 – 2050
Small stock of wood	259.2	2.88	2.88	1.44	2.40	1.28
Medium stock of wood	388.8	4.32	4.32	2.24	3.68	1.92
Large stock of wood	529.6	5.92	5.92	2.88	4.96	2.40
Very large stock of wood	561.6	6.24	6.24	3.20	5.28	2.72