

**Table S1** Sampling details of the study

Population	Number of adult trees	Sample year	Number of seedlings	Sample year
DE-SEW5	200	2008	100	2011 <sup>a</sup>
DE-SEW9	198	2008	100	2011 <sup>a</sup>
DE-GL	100	2009	148	2009 <sup>a</sup>
DE-GS	103	2009	129	2009 <sup>a</sup>
DE-US	100	2009	149	2009 <sup>a</sup>
DE-CL	101	2009	134	2009 <sup>a</sup>
DE-CS	104	2009	142	2009 <sup>a</sup>
DE-HA	99	2011	152	2009 <sup>a</sup>
DE-HEW10	200	2008	179	2011 <sup>a</sup>
DE-HEW6	200	2008	100	2011 <sup>a</sup>
DE-AEW5	198	2008	169	2011 <sup>a</sup>
DE-AEW8	199	2008	100	2011 <sup>a</sup>
CH-E-Felsberg	25	2014	62	2011
CH-E-Chur	25	2014	63	2011
CH-E-Malans	25	2014	64	2011
CH-E-Mastrils	25	2014	62	2011
CH-E-Sargans	25	2014	63	2011
CH-E-Mels	25	2014	60	2011
CH-W-Ardon	25	2014	63	2011
CH-W-Chamoson	25	2014	64	2011
CH-W-Saxon	25	2014	64	2011
CH-W-Martigny	25	2014	64	2011
CH-W-Collombey	25	2014	63	2011
CH-W-Ollon	25	2014	63	2011

<sup>a</sup>year in which the beechnuts were collected. The beechnuts were germinated and leaf samples taken from established seedlings