**Table S1 Characteristic numbers for the collectives under baseline (base) and minimum (min), median (med) and maximum (max) climate scenario for *Uelzen* at the end of the respective period (for age, dbh and height 1st quantile, median (med) and 3rd quantile values are given).**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Period | Climate | N | Age (y) |  | Dbh (cm) |  | Height (m) |
| scenario | 1st | med. | 3rd |  | 1st | med. | 3rd |  | 1st | med. | 3rd |
| Scots pine | 2011 –2030 | baseminmedmax | 61,79960,55260,39160,519 | 55555555 | 75757575 | 84848584 |  | 22.924.924.824.8 | 32.332.532.532.5 | 36.937.137.037.1 |  | 20.321.921.721.9 | 24.424.824.524.7 | 25.726.226.026.2 |
| 2031–2050 | baseminmedmax | 71,39066,76468,92568,885 | 35404040 | 73777575 | 99100100100 |  | 10.511.410.810.9 | 27.831.230.130.2 | 38.939.339.039.1 |  | 10.813.012.512.7 | 23.425.325.025.2 | 27.027.327.327.6 |
| 2051–2070 | baseminmedmax | 99,90298,33397,42693,215 | 30303030 | 40404040 | 89909193 |  | 8.79.19.19.5 | 11.312.411.712.4 | 28.629.730.232.1 |  | 9.210.410.510.8 | 11.413.813.513.6 | 24.225.526.226.1 |
| Eur. beech | 2011 –2030 | baseminmedmax | 17,26717,44716,67117,250 | 32323232 | 37373737 | 41414141 |  | 7.98.18.08.0 | 9.39.39.19.0 | 11.311.411.311.4 |  | 11.011.511.011.3 | 12.613.012.712.6 | 13.915.114.814.8 |
| 2031–2050 | baseminmedmax | 16,85818,25420,66118,504 | 44424042 | 52515051 | 57575757 |  | 9.610.19.710.1 | 14.314.413.414.1 | 17.518.016.817.5 |  | 12.613.913.313.5 | 16.618.617.417.7 | 19.921.220.320.2 |
| 2051–2070 | baseminmedmax | 17,35720,09323,07919,409 | 40353535 | 57455050 | 72717072 |  | 8.97.98.88.1 | 13.912.913.413.2 | 20.419.819.019.5 |  | 12.411.212.710.4 | 16.016.717.815.0 | 22.422.622.620.1 |
| Oak | 2011 –2030 | baseminmedmax | 5,7465,5005,4365,499 | 43454545 | 53535353 | 98100100100 |  | 12.412.212.212.1 | 16.317.016.916.9 | 36.537.737.637.3 |  | 13.513.513.213.1 | 15.316.716.116.1 | 22.223.723.223.4 |
| 2031–2050 | baseminmedmax | 7,7757,3937,6637,177 | 30303030 | 45585358 | 73797680 |  | 8.57.28.58.3 | 12.813.812.314.3 | 23.824.923.525.2 |  | 10.78.79.89.5 | 14.614.613.914.5 | 20.921.720.521.3 |
| 2051–2070 | baseminmedmax | 11,52411,48312,11210,427 | 35353035 | 40404045 | 60656073 |  | 9.29.18.68.3 | 11.110.510.511.0 | 16.215.615.117.5 |  | 11.610.710.49.1 | 13.912.312.412.2 | 17.615.916.616.2 |

**Table S2 Characteristic numbers for the collectives under baseline (base) and minimum (min), median (med) and maximum (max) climate scenario for *Fläming* at the end of the respective period (for age, dbh and height 1st quantile, median (med) and 3rd quantile values are given).**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Period | Climate | N | Age (y) |  | Dbh (cm) |  | Height (m) |
| scenario | 1st | med. | 3rd |  | 1st | med. | 3rd |  | 1st | med. | 3rd |
| Scots pine | 2011 –2030 | baseminmedmax | 71,44071,77971,63171,719 | 57575757 | 73737373 | 92919292 |  | 26.926.926.927.0 | 33.533.633.533.6 | 39.539.539.439.5 |  | 22.122.922.723.0 | 25.026.025.726.0 | 26.527.427.127.5 |
| 2031–2050 | baseminmedmax | 142,306145,674143,246146,114 | 30303030 | 40354035 | 77767775 |  | 9.29.59.59.4 | 11.511.811.611.7 | 32.432.032.432.0 |  | 10.110.810.910.5 | 12.713.413.313.2 | 25.426.226.226.0 |
| 2051–2070 | baseminmedmax | 252,086252,984248,804249,784 | 30303030 | 40404040 | 50505050 |  | 9.39.89.59.4 | 11.712.111.711.8 | 15.015.515.015.3 |  | 10.211.310.710.2 | 12.914.013.212.9 | 16.117.316.616.2 |
| Eur. beech | 2011 –2030 | baseminmedmax | 699703703703 | 64646464 | 100100100100 | 126126126126 |  | 30.931.330.932.0 | 44.044.944.144.3 | 54.154.554.254.8 |  | 20.021.320.621.1 | 23.525.024.024.2 | 26.928.027.027.5 |
| 2031–2050 | baseminmedmax | 1,6243,6302,9832,608 | 40404040 | 40404040 | 45404040 |  | 6.36.46.26.3 | 6.66.66.56.4 | 10.47.67.87.0 |  | 7.87.97.47.1 | 8.48.37.87.6 | 11.410.29.88.6 |
| 2051–2070 | baseminmedmax | 13,10413,28812,74410,846 | 45455050 | 50505055 | 55555555 |  | 7.37.57.57.1 | 8.89.29.18.5 | 10.611.110.610.2 |  | 8.89.48.47.7 | 10.411.110.19.4 | 12.313.211.610.8 |
| Oak | 2011 –2030 | baseminmedmax | 1,8091,8131,8191,813 | 53545353 | 65656565 | 111111111111 |  | 27.727.927.727.9 | 33.233.733.633.7 | 44.744.744.844.8 |  | 18.619.719.319.5 | 20.822.021.621.9 | 23.624.924.424.7 |
| 2031–2050 | baseminmedmax | 8,2869,5359,9749,690 | 35303535 | 40353540 | 40404040 |  | 7.97.58.08.1 | 8.58.68.68.6 | 9.19.59.39.6 |  | 7.58.07.97.8 | 8.69.39.19.1 | 9.510.39.910.1 |
| 2051–2070 | baseminmedmax | 14,58017,33116,63515,983 | 40353535 | 50454545 | 55555555 |  | 8.78.68.48.6 | 10.310.210.110.1 | 11.812.111.912.0 |  | 9.19.28.88.5 | 10.510.910.29.8 | 11.812.711.911.6 |