**Supplementary Table E.** Site-based series (SBSs) pre-selected for inclusion in Chronology B. Second column (‘Category’): A = Archaeology; I = Vegetation remains uncovered *in situ*; bold = disregarded in the final selection based on *P* > 0.0001; \* = *P* < 0.0000000001.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Find location** | **Category** | **Species** | **Length in years** | **Fist year** | **Last year** | **Max. sample depth** | **r** | **th** | **%PV** | **P (%PV)** |
| Aarle-Rixtel, Strijp | A | Oak | 491 | 359 | 849 | 3 | 0.50 | 13.3 | 69.7 | \* |
| Albrandswaard Portland | A | Oak | 83 | 921 | 1003 | 2 | 0.59 | 8.4 | 83.1 | \* |
| Alphen ad Rijn | A | Oak | 127 | -81 | 45 | 1 | 0.58 | 8.6 | 74.8 | 0.00000001 |
| Antwerpen | A | Oak | 70 | 931 | 1000 | 1 | 0.52 | 5.3 | 77.9 | 0.000002 |
| **Baarn, West bank of Eem** | **I** | **Oak** | **168** | **1061** | **1228** | **1** | **0.36** | **5.0** | **68.2** | **0.000396** |
| Barneveld-Harselaar | A | Oak | 117 | 914 | 1030 | 1 | 0.44 | 6.6 | 70.9 | 0.000003 |
| Bathmen | A | Oak | 125 | 48 | 172 | 2 | 0.52 | 7.7 | 67.6 | 0.000042 |
| **Beek en Donk, Oude toren** | **A** | **Oak** | **93** | **594** | **686** | **2** | **0.64** | **8.8** | **68.8** | **0.000144** |
| Bergeijk | A | Oak | 111 | 286 | 396 | 3 | 0.49 | 7.1 | 72.5 | 0.000001 |
| Breda | A | Oak | 79 | 871 | 949 | 1 | 0.64 | 7.4 | 75.3 | 0.000003 |
| Breda | A | Oak | 129 | 704 | 832 | 1 | 0.52 | 7.6 | 68.6 | 0.00002 |
| Breda | A | Oak | 265 | 428 | 692 | 8 | 0.65 | 14.1 | 73.0 | \* |
| Brugge | A | Oak | 90 | 711 | 800 | 1 | 0.49 | 5.4 | 71.7 | 0.00002 |
| Brugge | A | Oak | 421 | 285 | 705 | 24 | 0.68 | 19.7 | 76.1 | \* |
| Brugge Romeins | A | Oak | 215 | -153 | 61 | 2 | 0.44 | 7.1 | 67.7 | 0.0000001 |
| Budel-Meemortel | A | Oak | 170 | 842 | 1011 | 1 | 0.44 | 6.6 | 66.8 | 0.000006 |
| Colmschate | A | Oak | 138 | 170 | 307 | 2 | 0.69 | 10.1 | 74.6 | 0.000000004 |
| Cuyk | A | Oak | 163 | 247 | 409 | 44 | 0.60 | 9.5 | 73.9 | \* |
| Cuyk | A | Oak | 53 | 1027 | 1079 | 1 | 0.63 | 7.6 | 80.2 | 0.000005 |
| Damme | A | Oak | 159 | 891 | 1049 | 1 | 0.57 | 10.3 | 67.3 | 0.000006 |
| Dendermonde | A | Oak | 250 | 808 | 1057 | 14 | 0.51 | 10.5 | 71.2 | \* |
| Denekamp De Borchert | A | Oak | 117 | -76 | 40 | 8 | 0.55 | 7.5 | 73.1 | 0.0000003 |
| Deurne Binderen Zuid | A | Oak | 100 | 64 | 163 | 1 | 0.64 | 7.5 | 69.0 | 0.00008 |
| **Didam Kerkwijk** | **A** | **Oak** | **84** | **215** | **298** | **1** | **0.36** | **5.4** | **66.7** | **0.002** |
| Dommelen | A | Oak | 85 | 694 | 778 | 1 | 0.58 | 6.6 | 77.1 | 0.0000003 |
| **Eersel Kerkebogten** | **A** | **Oak** | **102** | **42** | **143** | **1** | **0.44** | **5.6** | **63.2** | **0.004** |
| Eindhoven | A | Oak | 199 | 540 | 738 | 4 | 0.52 | 8.5 | 69.3 | 0.00000003 |
| Elewijt | A | Oak | 190 | -89 | 100 | 1 | 0.48 | 8.7 | 70.8 | 0.000000005 |
| Empel De Werf | A | Oak | 225 | -97 | 127 | 7 | 0.54 | 9.8 | 70.9 | \* |
| Ermelo | A | Oak | 69 | 972 | 1040 | 1 | 0.51 | 6.3 | 73.9 | 0.00004 |
| Galder Bollemeer | A | Oak | 67 | 980 | 1046 | 1 | 0.52 | 6.9 | 75.4 | 0.00002 |
| Galder Bollemeer | A | Oak | 128 | 630 | 757 | 1 | 0.52 | 8.8 | 71.9 | 0.0000004 |
| **Geldrop 1** | **A** | **Oak** | **101** | **486** | **586** | **2** | **0.47** | **5.0** | **58.9** | **0.04** |
| **Geldrop 2** | **A** | **Oak** | **86** | **572** | **657** | **2** | **0.52** | **6.5** | **64.5** | **0.004** |
| Gennep | A | Oak | 156 | 248 | 403 | 6 | 0.57 | 10.4 | 73.1 | 0.000000004 |
| Gennep | A | Oak | 108 | -95 | 12 | 1 | 0.49 | 7.4 | 68.5 | 0.00006 |
| Gent | A | Oak | 207 | -132 | 74 | 5 | 0.60 | 11.3 | 71.0 | \* |
| Gent | A | Oak | 255 | 341 | 595 | 3 | 0.56 | 11.5 | 72.7 | \* |
| Goirle Groote Akkers | A | Oak | 242 | -143 | 98 | 16 | 0.56 | 10.5 | 70.5 | \* |
| **Groningen** | **A** | **Oak** | **89** | **929** | **1017** | **1** | **0.52** | **5.9** | **69.7** | **0.0002** |
| Haaren Haarensteyn | A | Oak | 220 | 522 | 741 | 1 | 0.42 | 7.4 | 66.1 | 0.0000009 |
| Harelbeke | A | Oak | 114 | 6 | 119 | 1 | 0.52 | 7.1 | 68.0 | 0.00007 |
| Heeten-Raalte | A | Oak | 288 | 21 | 308 | 3 | 0.51 | 10.7 | 70.1 | \* |
| Helmond | A | Oak | 150 | 38 | 187 | 4 | 0.50 | 10.0 | 70.7 | 0.0000002 |
| Hilvarenbeek | A | Oak | 152 | 585 | 736 | 1 | 0.47 | 7.7 | 68.8 | 0.000002 |
| Hogeloon | A | Oak | 73 | -8 | 64 | 1 | 0.51 | 7.1 | 73.3 | 0.00004 |
| Hulst | A | Oak | 146 | 906 | 1051 | 1 | 0.52 | 9.4 | 74.3 | 0.000000002 |
| Katwijk | A | Oak | 199 | 349 | 547 | 2 | 0.39 | 5.9 | 63.3 | 0.00009 |
| Kortessem Tapstraat | A | Oak | 120 | -95 | 24 | 1 | 0.54 | 9.3 | 69.2 | 0.00002 |
| Leiden | A | Oak | 145 | 1001 | 1145 | 1 | 0.47 | 6.1 | 67.7 | 0.00004 |
| Leiden | A | Oak | 135 | -2 | 132 | 1 | 0.52 | 7.1 | 70.0 | 0.000002 |
| Lieshout | A | Oak | 248 | -130 | 117 | 2 | 0.54 | 10.4 | 68.5 | 0.000000003 |
| **Lochem** | **A** | **Oak** | **64** | **751** | **814** | **2** | **0.49** | **4.9** | **60.2** | **0.06** |
| Lochem | A | Oak | 333 | 317 | 649 | 1 | 0.40 | 9.0 | 65.9 | 0.000000003 |
| **Lokeren** | **A** | **Oak** | **100** | **983** | **1082** | **1** | **0.52** | **5.8** | **65.0** | **0.002** |
| **Maastricht** | **A** | **Oak** | **67** | **15** | **81** | **2** | **0.50** | **5.6** | **66.4** | **0.004** |
| Maastricht | A | Oak | 86 | 901 | 986 | 1 | 0.50 | 6.1 | 74.4 | 0.000003 |
| **Malburg** | **A** | **Oak** | **88** | **970** | **1057** | **1** | **0.52** | **5.8** | **68.2** | **0.0004** |
| Maldegem Vake | A | Oak | 90 | 59 | 148 | 1 | 0.54 | 7.7 | 78.3 | 0.00000004 |
| Midlaren | A | Oak | 97 | 653 | 749 | 2 | 0.37 | 5.5 | 72.2 | 0.000006 |
| Mierlo | A | Oak | 175 | -161 | 13 | 2 | 0.54 | 9.0 | 70.3 | 0.00000004 |
| **Mierlo** | **A** | **Oak** | **48** | **67** | **114** | **1** | **0.47** | **5.0** | **68.8** | **0.005** |
| Nederweert Rosveld | A | Oak | 360 | -193 | 166 | 7 | 0.64 | 15.4 | 71.5 | \* |
| Oedelem | A | Oak | 197 | 466 | 662 | 1 | 0.54 | 8.4 | 69,3 | 0.00000003 |
| Oss | A | Oak | 246 | -141 | 104 | 21 | 0.62 | 14.5 | 77.4 | \* |
| Oss | A | Oak | 112 | 738 | 849 | 1 | 0.38 | 5.2 | 68.8 | 0.00004 |
| Oudenburg Roksem, Hoge Dijken | A | Oak | 196 | 429 | 624 | 1 | 0.52 | 8.4 | 66.1 | 0.000003 |
| Raalte | A | Oak | 106 | 627 | 732 | 1 | 0.48 | 5.9 | 69.8 | 0.00002 |
| Reusel | A | Oak | 142 | 438 | 579 | 2 | 0.56 | 8.4 | 72.5 | 0.00000004 |
| **Reusel** | **A** | **Oak** | **127** | **615** | **741** | **1** | **0.46** | **6.1** | **65.7** | **0.0003** |
| Ruiselede | A | Oak | 274 | 397 | 670 | 3 | 0.66 | 15.3 | 78.3 | \* |
| Someren | A | Oak | 121 | 612 | 732 | 1 | 0.64 | 8.6 | 74.0 | 0.00000006 |
| Someren | A | Oak | 99 | 49 | 147 | 2 | 0.63 | 8.3 | 73.7 | 0.000001 |
| Someren | A | Oak | 159 | 540 | 698 | 3 | 0.54 | 9.2 | 73.9 | \* |
| Someren | A | Oak | 168 | 903 | 1070 | 3 | 0.56 | 11.0 | 72.6 | 0.000000002 |
| Steendorp | A | Oak | 114 | 953 | 1066 | 1 | 0.52 | 6.7 | 69.7 | 0.00002 |
| Stevensweert | I | Oak | 217 | 337 | 553 | 1 | 0.53 | 9.3 | 70.0 | 0.000000002 |
| Terneuzen Zaanslag | A | Oak | 122 | 953 | 1074 | 1 | 0.55 | 8.8 | 74.2 | 0.00000004 |
| Tiel | A | Oak | 152 | 827 | 978 | 2 | 0.45 | 7.5 | 69.1 | 0.000001 |
| Tilburg | A | Oak | 106 | 949 | 1054 | 1 | 0.52 | 7.0 | 76.9 | 0.00000002 |
| **Tilburg** | **A** | **Oak** | **108** | **534** | **641** | **1** | **0.56** | **6.1** | **66.2** | **0.0004** |
| Varsenare d'Hooghe Noene | A | Oak | 174 | 367 | 540 | 2 | 0.50 | 8.6 | 73.3 | \* |
| Varsseveld | A | Oak | 149 | 976 | 1124 | 1 | 0.56 | 8.5 | 74.2 | 0.000000002 |
| Veldhoven | A | Oak | 131 | 513 | 643 | 2 | 0.58 | 7.7 | 67.9 | 0.00003 |
| Venlo | A | Oak | 123 | 992 | 1114 | 1 | 0.37 | 6.4 | 72.4 | 0.0000003 |
| Venray | A | Oak | 98 | 33 | 130 | 1 | 0.40 | 5.3 | 70.9 | 0.00002 |
| Venray | A | Oak | 98 | 970 | 1067 | 1 | 0.55 | 6.4 | 69.9 | 0.00005 |
| Vlaardingen | A | Oak | 143 | 903 | 1045 | 3 | 0.64 | 12.5 | 78.0 | \* |
| Warnsveld | A | Oak | 142 | 698 | 839 | 1 | 0.37 | 5.5 | 73.6 | 0.000000009 |
| **Weert** | **A** | **Oak** | **105** | **501** | **605** | **1** | **0.30** | **4.0** | **64.8** | **0.002** |
| Wehl-Hessenveld | A | Oak | 187 | 133 | 319 |  | 0.58 | 8.9 | 69.0 | 0.0000001 |
| **Wierden** | **A** | **Oak** | **144** | **775** | **918** | **1** | **0.24** | **4.7** | **64.6** | **0.0003** |
| Woerden | A | Oak | 167 | -67 | 99 | 1 | 0.49 | 7.9 | 65.9 | 0.00002 |
| **Zelhem** | **A** | **Oak** | **194** | **556** | **749** | **1** | **0.36** | **5.1** | **62.6** | **0.0003** |
| **Zutphen** | **A** | **Oak** | **89** | **718** | **806** | **2** | **0.41** | **5.6** | **67.4** | **0.0006** |
| **Zutphen** | **A** | **Oak** | **65** | **615** | **679** | **1** | **0.41** | **5.0** | **72.3** | **0.0002** |