Table Calendar ages and corresponding radiocarbon ages and uncertainties measured at ETH and CEZA (MAMS).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Tree ID | Ring number | Calendar age (BP; midpoint) | Calendar span | 14C age (BP) | 14C uncertainty (1- σ) | Lab ID |
| BREI0232 |  13-16 | 12021.5 | 4 | 10309 | 24 | ETH-65259 |
| BREI0232 | 17-21 | 12017.0 | 5 | 10339 | 22 | ETH-65260 |
| BREI0232 | 22-25 | 12012.5 | 4 | 10280 | 21 | ETH-65261 |
| BREI0232 | 26-28 | 12009.0 | 3 | 10299 | 22 | ETH-65262 |
| BREI0232 | 26-28 | 12009.0 | 3 | 10321 | 22 | ETH-65262 |
| BREI0232 | 29-32 | 12005.5 | 4 | 10318 | 22 | ETH-65263 |
| BREI0232 | 29-32 | 12005.5 | 4 | 10327 | 21 | ETH-65263 |
| BREI0232 | 33-35 | 12002.0 | 3 | 10310 | 22 | ETH-65264 |
| BREI0232 | 33-35 | 12002.0 | 3 | 10338 | 22 | ETH-65264 |
| BREI0232 | 36-38 | 11999.0 | 3 | 10315 | 22 | ETH-65265 |
| BREI0232 | 36-38 | 11999.0 | 3 | 10343 | 21 | ETH-65265 |
| BREI0232 | 39-42 | 11995.5 | 4 | 10314 | 22 | ETH-65266 |
| BREI0232 | 39-42 | 11995.5 | 4 | 10316 | 22 | ETH-65266 |
| BREI0232 | 43-45 | 11992.0 | 3 | 10306 | 21 | ETH-65267 |
| BREI0232 | 46-48 | 11989.0 | 3 | 10310 | 22 | ETH-65268 |
| BREI0232 | 46-48 | 11989.0 | 3 | 10286 | 22 | ETH-65268 |
| BREI0232 | 49-51 | 11986.0 | 3 | 10265 | 22 | ETH-65269 |
| BREI0232 | 52-54 | 11983.0 | 3 | 10267 | 22 | ETH-65270 |
| BREI0232 | 52-54 | 11983.0 | 3 | 10315 | 22 | ETH-65270 |
| BREI0232 | 55-57 | 11980.0 | 3 | 10288 | 22 | ETH-65271 |
| BREI0232 | 58-61 | 11976.5 | 4 | 10353 | 23 | ETH-65272 |
| BREI0232 | 58-61 | 11976.5 | 4 | 10328 | 22 | ETH-65272 |
| BREI0232 | 62-66 | 11972.0 | 5 | 10319 | 21 | ETH-65273 |
| BREI0232 | 67-71 | 11967.0 | 5 | 10288 | 22 | ETH-65274 |
| BREI0232 | 67-71 | 11967.0 | 5 | 10305 | 22 | ETH-65274 |
| BREI0232 | 77-82 | 11956.5 | 6 | 10297 | 22 | ETH-65276 |
| BREI0232 | 83-85 | 11952.0 | 3 | 10266 | 22 | ETH-65277 |
| BREI0232 | 83-85 | 11952.0 | 3 | 10296 | 22 | ETH-65277 |
| BREI0232 | 86-88 | 11949.0 | 3 | 10290 | 22 | ETH-65278 |
| BREI0232 | 86-88 | 11949.0 | 3 | 10245 | 22 | ETH-65278 |
| BREI0232 | 89-91 | 11946.0 | 3 | 10279 | 22 | ETH-65279 |
| BREI0232 | 92-94 | 11943.0 | 3 | 10246 | 22 | ETH-65280 |
| BREI0232 | 92-94 | 11943.0 | 3 | 10277 | 21 | ETH-65280 |
| BREI0232 | 95-97 | 11940.0 | 3 | 10218 | 21 | ETH-65281 |
| BREI0232 | 48-51 | 11936.5 | 4 | 10263 | 21 | ETH-65282 |
| BREI0232 | 102-106 | 11932.0 | 5 | 10217 | 22 | ETH-65283 |
| BREI0232 | 107-111 | 11927.0 | 5 | 10202 | 22 | ETH-65284 |
| BREI0232 | 107-111 | 11927.0 | 5 | 10221 | 22 | ETH-65284 |
| BREI0232 | 112-116 | 11922.0 | 5 | 10243 | 22 | ETH-65285 |
| BREI0232 | 117-121 | 11917.0 | 5 | 10224 | 22 | ETH-65286 |
| BREI0232 | 122-126 | 11912.0 | 5 | 10238 | 21 | ETH-65287 |
| BREI0232 | 127-131 | 11907.0 | 5 | 10255 | 22 | ETH-65288 |
| BREI0232 | 132-136 | 11902.0 | 5 | 10223 | 22 | ETH-65289 |
| BREI0232 | 137-141 | 11897.0 | 5 | 10219 | 22 | ETH-65290 |
| BREI0232 | 142-146 | 11892.0 | 5 | 10242 | 22 | ETH-65291 |
| BREI0232 | 147-151 | 11887.0 | 5 | 10250 | 22 | ETH-65292 |
| BREI0232 | 147-151 | 11887.0 | 5 | 10266 | 22 | ETH-65292 |
| COTT0418 | 32-33 | 12165.5 | 2 | 10350 | 22 | ETH-70509 |
| COTT0418 | 34-35 | 12163.5 | 2 | 10382 | 21 | ETH-70510 |
| COTT0418 | 36-37 | 12161.5 | 2 | 10375 | 21 | ETH-70511 |
| COTT0418 | 38-39 | 12159.5 | 2 | 10301 | 22 | ETH-70512 |
| COTT0418 | 40-41 | 12157.5 | 2 | 10327 | 22 | ETH-70513 |
| COTT0418 | 42-43 | 12155.5 | 2 | 10345 | 22 | ETH-70514 |
| COTT0418 | 44-46 | 12153.0 | 3 | 10356 | 22 | ETH-70515 |
| COTT0418 | 47-49 | 12150.0 | 3 | 10332 | 22 | ETH-70516 |
| COTT0418 | 50-52 | 12147.0 | 3 | 10367 | 22 | ETH-70517 |
| COTT0418 | 53-56 | 12143.5 | 4 | 10363 | 22 | ETH-70518 |
| COTT0418 | 57-61 | 12139.0 | 5 | 10346 | 22 | ETH-70519 |
| COTT0418 | 62-65 | 12134.5 | 4 | 10344 | 22 | ETH-70520 |
| COTT0418 | 66-68 | 12131.0 | 3 | 10365 | 21 | ETH-70521 |
| COTT0418 | 69-72 | 12127.5 | 4 | 10323 | 22 | ETH-70522 |
| COTT0418 | 73-75 | 12124.0 | 3 | 10323 | 22 | ETH-70523 |
| COTT0418 | 76-79 | 12120.5 | 4 | 10348 | 21 | ETH-70524 |
| COTT0418 | 80-82 | 12117.0 | 3 | 10325 | 21 | ETH-70525 |
| COTT0418 | 83-85 | 12114.0 | 3 | 10388 | 21 | ETH-70526 |
| COTT0418 | 86-89 | 12110.5 | 4 | 10370 | 21 | ETH-70527 |
| COTT0418 | 90-92 | 12107.0 | 3 | 10395 | 21 | ETH-70528 |
| COTT0418 | 93-95 | 12104.0 | 3 | 10366 | 22 | ETH-70529 |
| COTT0418 | 96-98 | 12101.0 | 3 | 10379 | 22 | ETH-70530 |
| COTT0418 | 49-51 | 12098.0 | 3 | 10336 | 22 | ETH-70531 |
| COTT0418 | 102-103 | 12095.5 | 2 | 10338 | 21 | ETH-70532 |
| COTT0418 | 104-105 | 12093.5 | 2 | 10290 | 21 | ETH-70533 |
| COTT0418 | 106-107 | 12091.5 | 2 | 10327 | 21 | ETH-70534 |
| COTT0418 | 108-109 | 12089.5 | 2 | 10321 | 21 | ETH-70535 |
| COTT0418 | 110-111 | 12087.5 | 2 | 10323 | 21 | ETH-70536 |
| COTT0418 | 112-113 | 12085.5 | 2 | 10339 | 21 | ETH-70537 |
| COTT0418 | 114-115 | 12083.5 | 2 | 10355 | 21 | ETH-70538 |
| COTT0418 | 116-118 | 12081.0 | 3 | 10359 | 21 | ETH-70539 |
| COTT0418 | 119-125 | 12076.0 | 7 | 10342 | 22 | ETH-70540 |
| COTT0418 | 126-128 | 12071.0 | 3 | 10348 | 21 | ETH-70541 |
| COTT0418 | 129-133 | 12067.0 | 5 | 10317 | 21 | ETH-70542 |
| COTT0418 | 134-137 | 12062.5 | 4 | 10357 | 21 | ETH-70543 |
| COTT0418 | 138-142 | 12058.0 | 5 | 10299 | 21 | ETH-70544 |
| COTT0418 | 143-151 | 12051.0 | 9 | 10347 | 21 | ETH-70545 |
| COTT0418 | 152-156 | 12044.0 | 5 | 10338 | 21 | ETH-70546 |
| COTT0418 | 157-160 | 12039.5 | 4 | 10324 | 21 | ETH-70547 |
| COTT0418 | 161-169 | 12033.0 | 9 | 10322 | 21 | ETH-70548 |
| COTT0418 | 169-173 | 12026.0 | 5 | 10314 | 21 | ETH-70549 |
| COTT0418 | 175-177 | 12022.0 | 3 | 10338 | 22 | ETH-70550 |
| COTT0418 | 178-181 | 12018.5 | 4 | 10298 | 21 | ETH-70551 |
| COTT0418 | 182-186 | 12014.0 | 5 | 10348 | 21 | ETH-70552 |
| COTT0418 | 187-191 | 12009.0 | 5 | 10342 | 21 | ETH-70553 |
| COTT0418 | 192-194 | 12005.0 | 3 | 10329 | 22 | ETH-70554 |
| COTT0418 | 195-197 | 12002.0 | 3 | 10292 | 21 | ETH-70555 |
| COTT0418 | 198-200 | 11999.0 | 3 | 10272 | 22 | ETH-70556 |
| BREI0232 |  3-12 | 12028.5 | 10 | 10339 | 30 | MAMS- 26642 |
| BREI0232 |  13-16 | 12021.5 | 4 | 10299 | 28 | MAMS-26643 |
| BREI0232 |  17-21 | 12017.0 | 5 | 10339 | 23 | MAMS-26644 |
| BREI0232 |  22-25 | 12012.5 | 4 | 10313 | 23 | MAMS-26645 |
| BREI0232 |  26-28 | 12009.0 | 3 | 10334 | 32 | MAMS-26646 |
| BREI0232 |  29.5-31.5 | 12005.5 | 3 | 10366 | 24 | MAMS-26647 |
| BREI0232 |  33-35 | 12002.0 | 3 | 10284 | 29 | MAMS-26648 |
| BREI0232 |  36-38 | 11999.0 | 3 | 10312 | 24 | MAMS-26649 |
| BREI0232 |  39-42 | 11995.5 | 4 | 10294 | 23 | MAMS-26650 |
| BREI0232 |  43-45 | 11992.0 | 3 | 10266 | 28 | MAMS-26651 |
| BREI0232 |  46-48 | 11989.0 | 3 | 10357 | 30 | MAMS-26652 |
| BREI0232 |  49-51 | 11986.0 | 3 | 10269 | 28 | MAMS-26653 |
| BREI0232 |  52-54 | 11983.0 | 3 | 10294 | 28 | MAMS-26654 |
| BREI0232 |  55-57 | 11980.0 | 3 | 10329 | 29 | MAMS-26655 |
| BREI0232 |  58-61 | 11976.5 | 4 | 10327 | 23 | MAMS-26656 |
| BREI0232 |  62-66 | 11972.0 | 5 | 10306 | 29 | MAMS-26657 |
| BREI0232 |  67-71 | 11967.0 | 5 | 10326 | 23 | MAMS-26658 |
| BREI0232 |  77-82 | 11956.5 | 6 | 10305 | 33 | MAMS-26659 |
| BREI0232 |  83-85 | 11952.0 | 3 | 10301 | 29 | MAMS-26660 |
| BREI0232 |  86-88 | 11949.0 | 3 | 10260 | 24 | MAMS-26661 |
| BREI0232 |  89-91 | 11946.0 | 3 | 10272 | 24 | MAMS-26662 |
| BREI0232 |  92-94 | 11943.0 | 3 | 10311 | 24 | MAMS-26663 |
| BREI0232 |  95-98 | 11939.5 | 4 | 10264 | 24 | MAMS-26664 |
| BREI0232 |  99-101 | 11936.0 | 3 | 10208 | 28 | MAMS-26665 |
| BREI0232 |  102-105 | 11932.5 | 4 | 10235 | 28 | MAMS-26666 |
| BREI0232 |  106-109 | 11928.5 | 4 | 10208 | 23 | MAMS-26667 |
| BREI0232 |  111-115 | 11923.0 | 5 | 10188 | 28 | MAMS-26668 |
| BREI0232 |  117-121 | 11917.0 | 5 | 10170 | 29 | MAMS-26669 |
| BREI0232 |  122-126 | 11912.0 | 5 | 10196 | 28 | MAMS-26670 |
| BREI0232 |  127-131 | 11907.0 | 5 | 10188 | 27 | MAMS-26671 |
| BREI0232 |  132-136 | 11902.0 | 5 | 10193 | 28 | MAMS-26672 |
| BREI0232 |  137-141 | 11897.0 | 5 | 10248 | 28 | MAMS-26673 |
| BREI0232 |  142-146 | 11892.0 | 5 | 10236 | 27 | MAMS-26674 |
| BREI0232 |  147-151 | 11887.0 | 5 | 10206 | 24 | MAMS-26675 |
| BREI0232 |  152-160 | 11880.0 | 9 | 10200 | 24 | MAMS-26676 |
| COTT0418 |  38-39 | 12159.5 | 2 | 10359 | 28 | MAMS-28973 |
| COTT0418 |  42-43 | 12155.5 | 2 | 10380 | 25 | MAMS-28975 |
| COTT0418 |  44-46 | 12153.0 | 3 | 10363 | 25 | MAMS-28976 |
| COTT0418 |  47-49 | 12150.0 | 3 | 10335 | 26 | MAMS-28977 |
| COTT0418 |  50-52 | 12147.0 | 3 | 10394 | 24 | MAMS-28978 |
| COTT0418 |  53-56 | 12143.5 | 4 | 10332 | 26 | MAMS-28979 |
| COTT0418 |  57-61 | 12139.0 | 5 | 10371 | 26 | MAMS-28980 |
| COTT0418 |  62-65 | 12134.5 | 4 | 10355 | 24 | MAMS-28981 |
| COTT0418 |  69-72 | 12127.5 | 4 | 10370 | 25 | MAMS-28983 |
| COTT0418 |  73-75 | 12124.0 | 3 | 10398 | 24 | MAMS-28984 |
| COTT0418 |  76-79 | 12120.5 | 4 | 10372 | 24 | MAMS-28985 |
| COTT0418 |  83-85 | 12114.0 | 3 | 10359 | 23 | MAMS-28987 |
| COTT0418 |  86-89 | 12110.5 | 4 | 10383 | 25 | MAMS-28988 |
| COTT0418 |  90-92 | 12107.0 | 3 | 10360 | 24 | MAMS-28989 |
| COTT0418 |  93-95 | 12104.0 | 3 | 10337 | 24 | MAMS-28990 |
| COTT0418 |  96-98 | 12101.0 | 3 | 10293 | 24 | MAMS-28991 |
| COTT0418 |  99-101 | 12098.0 | 3 | 10346 | 24 | MAMS-28992 |
| COTT0418 |  102-103 | 12095.5 | 2 | 10352 | 24 | MAMS-28993 |
| COTT0418 |  104-105 | 12093.5 | 2 | 10301 | 27 | MAMS-28994 |
| COTT0418 |  106-107 | 12091.5 | 2 | 10337 | 24 | MAMS-28995 |
| COTT0418 |  108-109 | 12089.5 | 2 | 10318 | 24 | MAMS-28996 |
| COTT0418 |  110-111 | 12087.5 | 2 | 10314 | 23 | MAMS-28997 |
| COTT0418 |  112-113 | 12085.5 | 2 | 10398 | 24 | MAMS-28998 |
| COTT0418 |  114-115 | 12083.5 | 2 | 10373 | 28 | MAMS-28999 |
| COTT0418 |  116-118 | 12081.0 | 3 | 10330 | 28 | MAMS-29000 |
| COTT0418 |  119-125 | 12076.0 | 7 | 10377 | 31 | MAMS-29001 |
| COTT0418 |  126-128 | 12071.0 | 3 | 10355 | 28 | MAMS-29002 |
| COTT0418 |  129-133 | 12067.0 | 5 | 10401 | 34 | MAMS-29003 |
| COTT0418 |  134-137 | 12062.5 | 4 | 10340 | 29 | MAMS-29004 |
| COTT0418 |  138-142 | 12058.0 | 5 | 10316 | 29 | MAMS-29005 |
| COTT0418 |  143-151 | 12051.0 | 9 | 10316 | 28 | MAMS-29006 |
| COTT0418 |  152-156 | 12044.0 | 5 | 10291 | 29 | MAMS-29007 |
| COTT0418 |  157-160 | 12039.5 | 4 | 10305 | 29 | MAMS-29008 |
| COTT0418 |  161-169 | 12033.0 | 9 | 10337 | 29 | MAMS-29009 |
| COTT0418 |  170-174 | 12026.0 | 5 | 10306 | 28 | MAMS-29010 |
| COTT0418 |  175-177 | 12022.0 | 3 | 10320 | 28 | MAMS-29011 |
| COTT0418 |  182-186 | 12014.0 | 5 | 10338 | 29 | MAMS-29013 |
| COTT0418 |  187-191 | 12009.0 | 5 | 10344 | 29 | MAMS-29014 |
| COTT0418 |  192-194 | 12005.0 | 3 | 10334 | 29 | MAMS-29015 |
| COTT0418 |  195-197 | 12002.0 | 3 | 10318 | 30 | MAMS-29016 |

Table Reference Tk121 14C dated at ETH. The sample ID for TK121 is ETH-44716. Preparation number indicates independent cellulose extractions, while sample number is representative of independent AMS measurements.

|  |  |  |
| --- | --- | --- |
| Preparation and sample number  | 14C age | 14C uncertainty (1-σ) |
| 2.1 | 10979 | 21 |
| 3.1 | 10971 | 21 |
| 2.2 | 10966 | 21 |
| 3.2 | 10953 | 22 |
| 5.1 | 10925 | 22 |
| 4.2 | 10949 | 22 |
| 6.1 | 10966 | 22 |
| 7.1 | 10963 | 22 |
| 6.2 | 10989 | 23 |
| 7.2 | 10944 | 23 |
| 8.1 | 10953 | 23 |
| 9.1 | 10971 | 23 |
| 10.1 | 10954 | 23 |
| 11.1 | 10980 | 23 |
| 10.2 | 10969 | 22 |
| 11.2 | 10940 | 23 |
| 12.1 | 10929 | 24 |
| 12.2 | 10953 | 22 |
| 13.2 | 10947 | 23 |
| 13.3 | 10950 | 21 |
| 14.1 | 10950 | 22 |
| 15.1 | 10945 | 22 |
| 14.2 | 10936 | 22 |
| 15.2 | 10959 | 22 |
| 16.2 | 10981 | 22 |
| 17.2 | 10925 | 23 |
| 20.1 | 10957 | 21 |
| 20.2 | 10922 | 23 |
| 21.2 | 10921 | 22 |
| 22.1 | 10947 | 24 |
| 23.1 | 10945 | 24 |
| 22.2 | 10959 | 24 |
| 23.2 | 10960 | 25 |
| 24.1 | 10965 | 24 |
| 25.1 | 10942 | 24 |
| 24.2 | 10952 | 24 |
| 25.2 | 10956 | 24 |
| 27.1 | 10942 | 36 |
| 26.1 | 11006 | 36 |
| 27.1 | 10928 | 23 |
| 26.2 | 10983 | 23 |
| 27.2 | 10934 | 21 |
| 28.2 | 10937 | 22 |
| 29.2 | 10956 | 27 |
| 30.1 | 10940 | 27 |
| 31.1 | 10969 | 22 |
| 30.2 | 10932 | 22 |
| 31.2 | 10963 | 22 |
| 32.1 | 10971 | 22 |
| 33.1 | 10959 | 22 |
| 32.2 | 10966 | 22 |
| 33.2 | 10933 | 21 |
| 36.1 | 10925 | 21 |
| 37.1 | 10928 | 22 |
| 36.2 | 10937 | 22 |
| 37.2 | 10939 | 24 |
| 38.1 | 10973 | 24 |
| 39.1 | 10944 | 21 |
| 38.2 | 10949 | 21 |
| 39.2 | 10990 | 23 |
| 42.1 | 10924 | 23 |
| 43.1 | 10962 | 21 |
| 42.2 | 10962 | 21 |
| 43.2 | 10927 | 23 |
| 44.1 | 10950 | 23 |
| 45.1 | 10954 | 23 |
| 44.2 | 10937 | 23 |
| 45.2 | 10966 | 24 |
| 46.1 | 10975 | 24 |
| 47.1 | 10960 | 23 |
| 48.1 | 10928 | 23 |
| 49.1 | 10923 | 22 |
| 48.2 | 10977 | 22 |
| 49.2 | 10926 | 22 |
| 52.1 | 10957 | 22 |
| 53.1 | 11013 | 28 |
| 54.1 | 11005 | 28 |
| 55.1 | 10950 | 23 |
| 60.1 | 10948 | 23 |
| 61.1 | 10951 | 24 |
| 54.2 | 10966 | 24 |