Table S1. Mature forest area located on each National Forest located within conterminous USA. Total forest areas, along with mature area and percentage, is also included.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | GAP1 (%) | GAP2 (%) | GAP2.5 (%) | GAP3 (%) | GAP4 (%) | Total mature forest area (ha) | Total forest area (ha) | Mature forest (%) |
| Allegheny National Forest | 2.6 | 1.8 | 6.6 | 78.3 | 0.0 | 120672 | 299745 | 40.3 |
| Angeles National Forest | 37.5 | 40.2 | 23.4 | 21.2 | 0.3 | 25549 | 281499 | 9.1 |
| Angelina National Forest | 11.0 | 0.0 | 0.0 | 57.7 | 1.5 | 59921 | 161103 | 37.2 |
| Apache National Forest | 4.9 | 12.8 | 24.1 | 81.0 | 0.0 | 304566 | 756643 | 40.3 |
| Apalachicola National Forest | 3.3 | 1.1 | 2.9 | 87.7 | 0.0 | 106172 | 256406 | 41.4 |
| Arapaho National Forest | 15.1 | 5.8 | 30.7 | 74.0 | 0.1 | 125128 | 310628 | 40.3 |
| Ashley National Forest | 12.6 | 0.6 | 74.1 | 86.4 | 0.1 | 135511 | 567024 | 23.9 |
| Beaverhead National Forest | 8.3 | 12.4 | 67.9 | 77.9 | 0.8 | 395756 | 892806 | 44.3 |
| Bienville National Forest | 0.0 | 23.9 | 0.0 | 53.5 | 0.0 | 87732 | 157200 | 55.8 |
| Bighorn National Forest | 5.5 | 0.3 | 70.9 | 93.8 | 0.0 | 171542 | 450272 | 38.1 |
| Bitterroot National Forest | 37.4 | 9.8 | 32.4 | 51.9 | 0.1 | 273778 | 672468 | 40.7 |
| Black Hills National Forest | 1.8 | 2.9 | 2.3 | 87.1 | 0.0 | 244903 | 621869 | 39.4 |
| Boise National Forest | 7.1 | 1.8 | 34.1 | 85.6 | 0.0 | 289829 | 1194005 | 24.3 |
| Bridger National Forest | 11.9 | 1.2 | 67.5 | 86.9 | 0.0 | 170040 | 705260 | 24.1 |
| Cache National Forest | 6.6 | 1.2 | 49.6 | 71.4 | 0.2 | 137972 | 492823 | 28.0 |
| Caribou National Forest | 0.3 | 0.2 | 74.9 | 98.1 | 0.0 | 109117 | 438828 | 24.9 |
| Carson National Forest | 13.2 | 0.2 | 10.8 | 83.1 | 0.1 | 214658 | 601308 | 35.7 |
| Challis National Forest | 28.3 | 5.3 | 66.6 | 66.2 | 0.0 | 195570 | 1003512 | 19.5 |
| Chattahoochee National Forest | 11.1 | 18.2 | 6.2 | 40.5 | 6.5 | 324915 | 595254 | 54.6 |
| Chequamegon National Forest | 0.9 | 88.6 | 5.8 | 0.0 | 0.1 | 182861 | 420641 | 43.5 |
| Cherokee National Forest | 12.8 | 55.3 | 9.8 | 1.8 | 0.3 | 131443 | 496685 | 26.5 |
| Chippewa National Forest | 0.0 | 6.1 | 0.0 | 75.7 | 5.5 | 114035 | 647412 | 17.6 |
| Cibola National Forest | 14.9 | 0.1 | 9.6 | 75.7 | 0.8 | 172069 | 852961 | 20.2 |
| Clearwater National Forest | 10.7 | 2.6 | 62.4 | 86.1 | 0.0 | 418080 | 697385 | 59.9 |
| Cleveland National Forest | 10.0 | 1.8 | 21.5 | 46.8 | 18.0 | 10235 | 227100 | 4.5 |
| Coconino National Forest | 15.8 | 1.1 | 1.7 | 77.9 | 3.3 | 160169 | 813195 | 19.7 |
| Coeur D Alene National Forest | 0.0 | 0.2 | 19.8 | 95.8 | 0.0 | 252849 | 325244 | 77.7 |
| Colville National Forest | 3.2 | 0.3 | 19.2 | 91.6 | 0.0 | 233054 | 443549 | 52.5 |
| Conecuh National Forest | 0.0 | 0.0 | 0.0 | 67.8 | 0.0 | 31975 | 69288 | 46.1 |
| Coronado National Forest | 36.8 | 8.3 | 29.9 | 54.1 | 0.0 | 140154 | 722162 | 19.4 |
| Croatan National Forest | 7.6 | 0.3 | 8.1 | 61.7 | 1.7 | 39653 | 124441 | 31.9 |
| Custer National Forest | 19.2 | 1.8 | 20.1 | 76.0 | 0.1 | 117656 | 518617 | 22.7 |
| Daniel Boone National Forest | 1.2 | 0.5 | 0.1 | 56.6 | 0.2 | 167789 | 550598 | 30.5 |
| Davy Crockett National Forest | 1.4 | 0.0 | 0.0 | 72.7 | 0.0 | 61169 | 157669 | 38.8 |
| De Soto National Forest | 1.4 | 23.4 | 0.0 | 57.5 | 1.2 | 169495 | 337456 | 50.2 |
| Deerlodge National Forest | 3.7 | 4.8 | 34.8 | 87.9 | 0.1 | 288668 | 555954 | 51.9 |
| Delta National Forest | 0.3 | 74.3 | 0.0 | 2.5 | 0.0 | 25899 | 48859 | 53.0 |
| Deschutes National Forest | 5.6 | 5.0 | 7.6 | 82.2 | 0.0 | 251632 | 756690 | 33.3 |
| Dixie National Forest | 5.2 | 0.1 | 38.8 | 92.5 | 0.0 | 233979 | 795301 | 29.4 |
| Eldorado National Forest | 5.2 | 0.4 | 10.5 | 76.1 | 0.3 | 139292 | 360962 | 38.6 |
| Finger Lakes National Forest | 0.0 | 0.0 | 0.0 | 0.0 | 96.3 | 1095 | 6803 | 16.1 |
| Fishlake National Forest | 0.2 | 0.2 | 52.2 | 95.4 | 0.2 | 192236 | 620778 | 31.0 |
| Flathead National Forest | 43.3 | 1.9 | 22.5 | 53.2 | 0.5 | 476447 | 1072298 | 44.4 |
| Francis Marion National Forest | 4.1 | 10.6 | 0.4 | 57.3 | 0.9 | 116545 | 168689 | 69.1 |
| Fremont National Forest | 2.7 | 1.3 | 8.0 | 78.5 | 0.0 | 238798 | 693598 | 34.4 |
| Gallatin National Forest | 31.6 | 11.5 | 39.9 | 50.9 | 0.4 | 359321 | 861038 | 41.7 |
| George Washington National Forest | 1.9 | 10.6 | 14.1 | 56.0 | 2.3 | 361102 | 727277 | 49.7 |
| Gifford Pinchot National Forest | 13.0 | 4.1 | 18.8 | 81.4 | 0.2 | 383533 | 620049 | 61.9 |
| Gila National Forest | 36.0 | 0.8 | 26.1 | 62.1 | 0.0 | 475440 | 1109467 | 42.9 |
| Grand Mesa National Forest | 0.0 | 0.0 | 51.4 | 98.9 | 0.0 | 60767 | 142129 | 42.8 |
| Green Mountain National Forest | 10.7 | 0.4 | 2.7 | 38.9 | 4.4 | 105747 | 334598 | 31.6 |
| Gunnison National Forest | 22.2 | 0.1 | 38.2 | 74.6 | 0.3 | 215706 | 712609 | 30.3 |
| Helena National Forest | 7.6 | 0.7 | 49.5 | 85.8 | 0.2 | 219204 | 475186 | 46.1 |
| Hiawatha National Forest | 3.7 | 76.3 | 0.4 | 0.3 | 0.2 | 241502 | 526225 | 45.9 |
| Holly Springs National Forest | 0.0 | 18.0 | 0.0 | 43.5 | 0.2 | 85179 | 214146 | 39.8 |
| Homochitto National Forest | 0.0 | 16.7 | 0.5 | 61.1 | 0.0 | 77927 | 153958 | 50.6 |
| Hoosier National Forest | 3.7 | 50.0 | 2.3 | 0.4 | 2.8 | 137680 | 261663 | 52.6 |
| Humboldt National Forest | 47.6 | 0.0 | 57.9 | 50.2 | 0.0 | 170944 | 1059700 | 16.1 |
| Huron National Forest | 0.0 | 70.9 | 0.0 | 0.0 | 0.6 | 129650 | 279519 | 46.4 |
| Inyo National Forest | 57.4 | 1.4 | 40.4 | 40.0 | 0.3 | 86626 | 836804 | 10.4 |
| Jefferson National Forest | 6.4 | 4.3 | 12.7 | 43.3 | 1.4 | 242477 | 671726 | 36.1 |
| Kaibab National Forest | 6.1 | 0.0 | 3.1 | 91.0 | 1.4 | 91137 | 647903 | 14.1 |
| Kaniksu National Forest | 1.3 | 0.5 | 30.3 | 93.5 | 0.1 | 352790 | 789611 | 44.7 |
| Kisatchie National Forest | 0.7 | 74.0 | 0.9 | 0.3 | 0.8 | 260048 | 416709 | 62.4 |
| Klamath National Forest | 21.3 | 2.6 | 15.0 | 72.2 | 0.0 | 284954 | 756085 | 37.7 |
| Kootenai National Forest | 1.0 | 2.1 | 26.2 | 93.3 | 0.5 | 304132 | 866829 | 35.1 |
| Lassen National Forest | 4.7 | 0.7 | 11.3 | 79.4 | 0.1 | 178612 | 557079 | 32.1 |
| Lewis & Clark National Forest | 17.4 | 18.8 | 54.8 | 61.5 | 0.2 | 357948 | 810022 | 44.2 |
| Lincoln National Forest | 11.8 | 0.4 | 11.1 | 74.1 | 1.7 | 144694 | 510653 | 28.3 |
| Lolo National Forest | 5.1 | 0.7 | 33.0 | 90.3 | 0.7 | 491097 | 1067731 | 46.0 |
| Los Padres National Forest | 74.4 | 0.6 | 17.5 | 21.8 | 0.4 | 105345 | 791865 | 13.3 |
| Malheur National Forest | 2.2 | 1.2 | 13.4 | 94.2 | 0.0 | 266583 | 625070 | 42.6 |
| Manistee National Forest | 0.1 | 59.2 | 0.3 | 0.0 | 1.0 | 319407 | 537820 | 59.4 |
| Manti-La Sal National Forest | 4.5 | 2.7 | 40.9 | 88.6 | 0.0 | 164299 | 541330 | 30.4 |
| Mark Twain National Forest | 3.5 | 1.2 | 1.0 | 67.4 | 1.2 | 645896 | 1232247 | 52.4 |
| Medicine Bow National Forest | 8.3 | 0.8 | 31.7 | 83.1 | 0.3 | 132567 | 561849 | 23.6 |
| Mendocino National Forest | 21.7 | 10.1 | 14.4 | 59.9 | 0.0 | 123724 | 433988 | 28.5 |
| Modoc National Forest | 4.8 | 0.1 | 6.3 | 77.1 | 0.0 | 165468 | 821230 | 20.1 |
| Monongahela National Forest | 7.4 | 58.0 | 12.4 | 5.2 | 0.0 | 210934 | 689449 | 30.6 |
| Mt. Baker National Forest | 37.0 | 2.5 | 35.5 | 59.8 | 0.0 | 307201 | 533245 | 57.6 |
| Mt. Hood National Forest | 32.1 | 5.6 | 12.2 | 61.2 | 0.1 | 297654 | 481194 | 61.9 |
| Nantahala National Forest | 2.8 | 2.7 | 5.0 | 46.7 | 2.1 | 242728 | 534494 | 45.4 |
| Nebraska National Forest | 0.2 | 7.6 | 0.0 | 52.7 | 0.9 | 10506 | 92760 | 11.3 |
| Nezperce National Forest | 30.0 | 1.3 | 27.5 | 68.3 | 0.0 | 615162 | 911259 | 67.5 |
| Nicolet National Forest | 3.8 | 74.6 | 2.1 | 0.1 | 3.8 | 289142 | 389368 | 74.3 |
| Ocala National Forest | 9.8 | 3.3 | 1.0 | 76.1 | 0.0 | 30986 | 179178 | 17.3 |
| Ochoco National Forest | 4.6 | 1.5 | 8.6 | 81.9 | 0.0 | 177073 | 397232 | 44.6 |
| Oconee National Forest | 1.2 | 40.9 | 0.0 | 24.3 | 0.2 | 48672 | 107651 | 45.2 |
| Okanogan National Forest | 25.5 | 0.8 | 25.8 | 72.4 | 0.0 | 115041 | 622595 | 18.5 |
| Olympic National Forest | 11.4 | 0.3 | 15.2 | 86.4 | 0.0 | 207326 | 281608 | 73.6 |
| Osceola National Forest | 12.3 | 1.8 | 2.1 | 84.4 | 0.0 | 17891 | 66744 | 26.8 |
| Ottawa National Forest | 3.6 | 65.4 | 0.1 | 0.7 | 0.4 | 388623 | 628306 | 61.9 |
| Ouachita National Forest | 5.5 | 75.0 | 2.7 | 10.4 | 2.4 | 480999 | 1102447 | 43.6 |
| Ozark National Forest | 6.8 | 13.6 | 5.9 | 68.8 | 0.0 | 328927 | 603968 | 54.5 |
| Payette National Forest | 24.3 | 2.5 | 37.7 | 71.5 | 0.0 | 338618 | 981709 | 34.5 |
| Pike National Forest | 14.4 | 0.8 | 28.3 | 76.3 | 0.7 | 138382 | 515301 | 26.9 |
| Pisgah National Forest | 1.5 | 10.0 | 10.7 | 44.1 | 2.0 | 119565 | 469568 | 25.5 |
| Plumas National Forest | 2.2 | 1.6 | 5.6 | 83.4 | 0.5 | 266868 | 568875 | 46.9 |
| Prescott National Forest | 13.3 | 0.7 | 11.5 | 78.1 | 0.0 | 100864 | 571135 | 17.7 |
| Rio Grande National Forest | 21.8 | 0.4 | 34.8 | 75.7 | 0.1 | 134528 | 784033 | 17.2 |
| Rogue River National Forest | 10.8 | 2.4 | 13.4 | 83.8 | 0.0 | 158571 | 275547 | 57.5 |
| Roosevelt National Forest | 22.8 | 2.2 | 19.6 | 59.3 | 2.8 | 150239 | 437107 | 34.4 |
| Routt National Forest | 17.8 | 0.1 | 36.4 | 75.0 | 5.0 | 192704 | 505511 | 38.1 |
| Sabine National Forest | 5.0 | 0.2 | 0.0 | 60.0 | 0.1 | 84206 | 183947 | 45.8 |
| Salmon National Forest | 13.2 | 5.1 | 58.1 | 81.4 | 0.0 | 246799 | 727164 | 33.9 |
| Sam Houston National Forest | 1.2 | 0.2 | 2.0 | 56.5 | 0.0 | 71527 | 200447 | 35.7 |
| Samuel R. McKelvie National Forest | 0.0 | 0.0 | 0.0 | 96.8 | 0.0 | 79 | 47144 | 0.2 |
| San Bernardino National Forest | 22.4 | 9.0 | 17.4 | 55.9 | 0.3 | 63064 | 330049 | 19.1 |
| San Isabel National Forest | 19.7 | 0.6 | 46.8 | 73.0 | 0.7 | 137938 | 495499 | 27.8 |
| San Juan National Forest | 14.3 | 0.4 | 35.7 | 79.0 | 1.1 | 323799 | 847445 | 38.2 |
| Santa Fe National Forest | 21.7 | 0.6 | 13.2 | 71.7 | 0.2 | 329971 | 680083 | 48.5 |
| Sawtooth National Forest | 10.6 | 0.4 | 68.6 | 87.6 | 0.1 | 133587 | 765958 | 17.4 |
| Sequoia National Forest | 21.1 | 52.8 | 23.1 | 25.0 | 0.1 | 100837 | 479916 | 21.0 |
| Shasta National Forest | 6.4 | 1.4 | 11.8 | 70.1 | 0.6 | 217766 | 666573 | 32.7 |
| Shawnee National Forest | 8.6 | 59.6 | 3.6 | 0.0 | 0.2 | 112658 | 296485 | 38.0 |
| Shoshone National Forest | 50.3 | 0.3 | 33.8 | 49.3 | 0.0 | 210144 | 999097 | 21.0 |
| Sierra National Forest | 36.3 | 0.5 | 10.9 | 58.1 | 0.0 | 185963 | 572018 | 32.5 |
| Siskiyou National Forest | 17.5 | 4.1 | 19.4 | 75.4 | 0.4 | 195542 | 470117 | 41.6 |
| Sitgreaves National Forest | 0.0 | 0.0 | 3.7 | 95.9 | 0.0 | 49349 | 358953 | 13.7 |
| Siuslaw National Forest | 8.7 | 2.0 | 6.0 | 83.0 | 0.0 | 202920 | 336887 | 60.2 |
| Six Rivers National Forest | 16.7 | 4.8 | 17.9 | 74.7 | 0.0 | 240250 | 437848 | 54.9 |
| Snoqualmie National Forest | 42.8 | 9.6 | 14.2 | 44.1 | 1.1 | 325018 | 641875 | 50.6 |
| St. Francis National Forest | 0.0 | 1.9 | 0.0 | 85.4 | 0.2 | 7499 | 11985 | 62.6 |
| St. Joe National Forest | 0.0 | 8.1 | 40.4 | 84.5 | 0.0 | 216966 | 368003 | 59.0 |
| Stanislaus National Forest | 7.7 | 0.7 | 9.0 | 71.6 | 1.3 | 150651 | 441927 | 34.1 |
| Sumter National Forest | 0.7 | 1.5 | 1.2 | 61.3 | 2.0 | 160641 | 388299 | 41.4 |
| Superior National Forest | 18.7 | 0.3 | 1.4 | 66.8 | 0.1 | 76792 | 1323771 | 5.8 |
| Tahoe National Forest | 1.8 | 2.0 | 13.0 | 76.1 | 1.4 | 230406 | 495994 | 46.5 |
| Talladega National Forest | 3.8 | 0.6 | 2.8 | 63.1 | 0.6 | 178729 | 305046 | 58.6 |
| Targhee National Forest | 7.9 | 8.2 | 52.4 | 83.3 | 0.0 | 167127 | 684525 | 24.4 |
| Teton National Forest | 42.7 | 8.2 | 32.5 | 49.1 | 0.0 | 206105 | 682670 | 30.2 |
| Toiyabe National Forest | 18.8 | 10.4 | 53.0 | 68.5 | 0.8 | 364720 | 1712480 | 21.3 |
| Tombigbee National Forest | 1.1 | 50.4 | 0.0 | 26.4 | 0.0 | 31458 | 48426 | 65.0 |
| Tonto National Forest | 18.0 | 1.7 | 4.0 | 79.1 | 0.0 | 177117 | 1200468 | 14.8 |
| Trinity National Forest | 24.8 | 3.0 | 19.3 | 66.2 | 0.0 | 209402 | 480975 | 43.5 |
| Tuskegee National Forest | 0.0 | 0.0 | 0.0 | 88.0 | 0.0 | 2555 | 6333 | 40.3 |
| Uinta National Forest | 6.1 | 1.6 | 63.5 | 87.1 | 0.1 | 114016 | 389204 | 29.3 |
| Umatilla National Forest | 22.4 | 0.7 | 19.8 | 72.3 | 0.0 | 263738 | 611835 | 43.1 |
| Umpqua National Forest | 5.6 | 2.3 | 11.8 | 90.1 | 0.0 | 254570 | 416863 | 61.1 |
| Uncompahgre National Forest | 11.8 | 0.3 | 23.4 | 81.9 | 0.3 | 156722 | 421361 | 37.2 |
| Uwharrie National Forest | 6.6 | 0.1 | 0.0 | 42.3 | 0.6 | 30744 | 88918 | 34.6 |
| Wallowa National Forest | 30.7 | 2.8 | 21.2 | 64.0 | 0.0 | 119289 | 430933 | 27.7 |
| Wasatch National Forest | 23.5 | 0.0 | 42.3 | 60.6 | 0.7 | 136244 | 433543 | 31.4 |
| Wayne National Forest | 0.0 | 4.4 | 0.0 | 52.2 | 0.3 | 59975 | 345483 | 17.4 |
| Wenatchee National Forest | 28.1 | 1.4 | 29.0 | 65.0 | 0.7 | 315445 | 794420 | 39.7 |
| White Mountain National Forest | 22.2 | 0.6 | 34.0 | 70.4 | 0.0 | 84538 | 346780 | 24.4 |
| White River National Forest | 26.1 | 0.1 | 34.3 | 69.8 | 0.5 | 351073 | 1004611 | 34.9 |
| Whitman National Forest | 13.4 | 3.1 | 15.3 | 81.7 | 0.0 | 229774 | 530577 | 43.3 |
| Willamette National Forest | 20.1 | 3.4 | 11.0 | 74.1 | 0.0 | 481323 | 726094 | 66.3 |
| William B. Bankhead National Forest | 15.4 | 1.3 | 0.0 | 67.7 | 0.0 | 41346 | 141341 | 29.3 |
| Winema National Forest | 6.1 | 0.4 | 3.8 | 91.5 | 0.0 | 204969 | 442828 | 46.3 |