

Appendix 1. Detection radius, detection area, and correction factors calculated for EDR for different songs and tones detected by four brands of autonomous recording units (ARUs), from listening trials conducted at 20 transects near Calling Lake and Lac La Biche, Alberta, Canada in 2014. Correction factors are relative to human observers in the field and are calculated using a ratio of ARU to Field Observer detection areas. Values less than 1 indicate a smaller detection area relative to human observers and values greater than 1 indicate greater detection area relative to human observers. Correction factors can be applied to ARU data to standardize survey areas with those of observers in the field. “NA” indicates EDR values that could not be solved by our models due to uncertainty caused by insufficient non-detections.

| Sound | Habitat | Effective Detection Radius (m) \pm 90% CI | | | | | Effective Detection Area (m ²) | | | | | EDR Correction Factor | | | | |
|--------|-----------|---|----------------|----------------|----------------|----------------|--|------------|---------|---------|---------|-----------------------|------------|--------|--------|--------|
| | | Human | RiverForks | SM2 | SM3 | Zoom | Human | RiverForks | SM2 | SM3 | Zoom | Human | RiverForks | SM2 | SM3 | Zoom |
| 1000Hz | Conifer | 612 \pm 118 | 586 \pm 106 | 549 \pm 91 | 553 \pm 87 | 540 \pm 84 | 1175276 | 1077627 | 946839 | 961247 | 915295 | 1.0000 | 0.9169 | 0.8056 | 0.8179 | 0.7788 |
| 1000Hz | Deciduous | 676 \pm 141 | 642 \pm 119 | 594 \pm 105 | 600 \pm 105 | 583 \pm 98 | 1436767 | 1293480 | 1109522 | 1129359 | 1066455 | 1.0000 | 0.9003 | 0.7722 | 0.7860 | 0.7423 |
| 1000Hz | Road | 1078 \pm 611 | 952 \pm 376 | 815 \pm 254 | 829 \pm 245 | 786 \pm 223 | 3650033 | 2848426 | 2086584 | 2157865 | 1939301 | 1.0000 | 0.7804 | 0.5717 | 0.5912 | 0.5313 |
| 1414Hz | Conifer | 601 \pm 110 | 568 \pm 94 | 536 \pm 86 | 545 \pm 85 | 529 \pm 82 | 1135418 | 1014684 | 902944 | 934322 | 879387 | 1.0000 | 0.8937 | 0.7953 | 0.8229 | 0.7745 |
| 1414Hz | Deciduous | 658 \pm 127 | 615 \pm 113 | 575 \pm 93 | 587 \pm 100 | 566 \pm 91 | 1359334 | 1189839 | 1039059 | 1080828 | 1007986 | 1.0000 | 0.8753 | 0.7644 | 0.7951 | 0.7415 |
| 1414Hz | Road | NA | 903 \pm 323 | 788 \pm 224 | 818 \pm 237 | 766 \pm 200 | NA | 2560424 | 1951144 | 2103814 | 1844379 | NA | NA | NA | NA | NA |
| 2000Hz | Conifer | 567 \pm 105 | 553 \pm 92 | 531 \pm 86 | 551 \pm 92 | 533 \pm 85 | 1010637 | 961422 | 887345 | 952392 | 893324 | 1.0000 | 0.9513 | 0.8780 | 0.9424 | 0.8839 |
| 2000Hz | Deciduous | 680 \pm 142 | 656 \pm 128 | 621 \pm 115 | 652 \pm 126 | 624 \pm 115 | 1452730 | 1353163 | 1210887 | 1335343 | 1222048 | 1.0000 | 0.9315 | 0.8335 | 0.9192 | 0.8412 |
| 2000Hz | Road | 1223 \pm 0 | 1099 \pm 610 | 953 \pm 396 | 1079 \pm 537 | 964 \pm 406 | 4698534 | 3795315 | 2854582 | 3658388 | 2917393 | 1.0000 | 0.8078 | 0.6075 | 0.7786 | 0.6209 |
| 2828Hz | Conifer | 566 \pm 98 | 570 \pm 96 | 536 \pm 85 | 571 \pm 96 | 549 \pm 89 | 1005770 | 1019704 | 903720 | 1022910 | 948115 | 1.0000 | 1.0139 | 0.8985 | 1.0170 | 0.9427 |
| 2828Hz | Deciduous | 707 \pm 150 | 715 \pm 146 | 652 \pm 121 | 717 \pm 150 | 676 \pm 130 | 1570691 | 1604941 | 1335227 | 1612896 | 1434465 | 1.0000 | 1.0218 | 0.8501 | 1.0269 | 0.9133 |
| 2828Hz | Road | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 4000Hz | Conifer | 450 \pm 74 | 451 \pm 74 | 439 \pm 72 | 458 \pm 76 | 432 \pm 68 | 635063 | 639295 | 604230 | 658029 | 587147 | 1.0000 | 1.0067 | 0.9514 | 1.0362 | 0.9245 |
| 4000Hz | Deciduous | 495 \pm 85 | 497 \pm 84 | 481 \pm 81 | 506 \pm 93 | 473 \pm 73 | 771104 | 777352 | 726114 | 805228 | 701584 | 1.0000 | 1.0081 | 0.9417 | 1.0443 | 0.9098 |
| 4000Hz | Road | 1308 \pm 783 | 1346 \pm 679 | 1093 \pm 465 | NA | 1006 \pm 326 | 5370930 | 5689426 | 3751783 | NA | 3177717 | 1.0000 | 1.0593 | 0.6985 | NA | 0.5917 |
| 5656Hz | Conifer | 358 \pm 62 | 351 \pm 60 | 333 \pm 52 | 361 \pm 63 | 348 \pm 57 | 403523 | 387750 | 347486 | 408884 | 381134 | 1.0000 | 0.9609 | 0.8611 | 1.0133 | 0.9445 |
| 5656Hz | Deciduous | 301 \pm 52 | 297 \pm 49 | 285 \pm 45 | 302 \pm 52 | 295 \pm 47 | 284257 | 276339 | 255260 | 286907 | 272962 | 1.0000 | 0.9721 | 0.8980 | 1.0093 | 0.9603 |
| 5656Hz | Road | 743 \pm 210 | 686 \pm 168 | 571 \pm 135 | 765 \pm 207 | 664 \pm 161 | 1734810 | 1476581 | 1024515 | 1838439 | 1385027 | 1.0000 | 0.8511 | 0.5906 | 1.0597 | 0.7984 |
| 8000Hz | Conifer | 219 \pm 46 | 203 \pm 37 | 150 \pm 26 | 198 \pm 34 | 184 \pm 30 | 150853 | 129882 | 70873 | 123612 | 106319 | 1.0000 | 0.8610 | 0.4698 | 0.8194 | 0.7048 |
| 8000Hz | Deciduous | 173 \pm 41 | 165 \pm 35 | 132 \pm 24 | 162 \pm 33 | 154 \pm 29 | 93671 | 85135 | 55077 | 82396 | 74337 | 1.0000 | 0.9089 | 0.5880 | 0.8796 | 0.7936 |
| 8000Hz | Road | 439 \pm 111 | 342 \pm 77 | 187 \pm 45 | 320 \pm 74 | 268 \pm 61 | 605363 | 367344 | 109498 | 321258 | 225806 | 1.0000 | 0.6068 | 0.1809 | 0.5307 | 0.3730 |
| BADO | Conifer | 550 \pm 117 | 476 \pm 81 | 459 \pm 77 | 464 \pm 74 | 407 \pm 56 | 951248 | 711751 | 660835 | 676513 | 519872 | 1.0000 | 0.7482 | 0.6947 | 0.7112 | 0.5465 |
| BADO | Deciduous | 658 \pm 166 | 541 \pm 100 | 516 \pm 88 | 524 \pm 90 | 445 \pm 64 | 1362132 | 919221 | 836029 | 861281 | 622494 | 1.0000 | 0.6748 | 0.6138 | 0.6323 | 0.4570 |
| BADO | Road | 842 \pm 360 | 630 \pm 155 | 591 \pm 134 | 603 \pm 133 | 491 \pm 88 | 2229825 | 1246571 | 1098354 | 1142356 | 757137 | 1.0000 | 0.5590 | 0.4926 | 0.5123 | 0.3396 |
| BAWW | Conifer | 238 \pm 50 | 206 \pm 35 | 201 \pm 33 | 221 \pm 42 | 201 \pm 35 | 178608 | 132841 | 127386 | 153547 | 127431 | 1.0000 | 0.7438 | 0.7132 | 0.8597 | 0.7135 |
| BAWW | Deciduous | 213 \pm 43 | 189 \pm 33 | 185 \pm 31 | 200 \pm 36 | 185 \pm 32 | 142657 | 111873 | 107979 | 126205 | 108011 | 1.0000 | 0.7842 | 0.7569 | 0.8847 | 0.7571 |
| BAWW | Road | 515 \pm 126 | 319 \pm 71 | 304 \pm 67 | 388 \pm 89 | 304 \pm 70 | 834320 | 319744 | 289867 | 473396 | 290097 | 1.0000 | 0.3832 | 0.3474 | 0.5674 | 0.3477 |
| BEKI | Conifer | 294 \pm 50 | 286 \pm 46 | 257 \pm 39 | 297 \pm 51 | 287 \pm 46 | 272203 | 256849 | 207309 | 277682 | 258925 | 1.0000 | 0.9436 | 0.7616 | 1.0201 | 0.9512 |
| BEKI | Deciduous | 224 \pm 39 | 221 \pm 38 | 206 \pm 31 | 226 \pm 42 | 221 \pm 37 | 158083 | 152779 | 133765 | 159915 | 153511 | 1.0000 | 0.9664 | 0.8462 | 1.0116 | 0.9711 |
| BEKI | Road | 619 \pm 160 | 550 \pm 123 | 401 \pm 84 | 647 \pm 156 | 559 \pm 125 | 1202325 | 951184 | 504616 | 1317122 | 980290 | 1.0000 | 0.7911 | 0.4197 | 1.0955 | 0.8153 |
| BHCO | Conifer | 341 \pm 58 | 333 \pm 54 | 293 \pm 42 | 339 \pm 58 | 334 \pm 55 | 366090 | 348880 | 269548 | 361559 | 350184 | 1.0000 | 0.9530 | 0.7363 | 0.9876 | 0.9566 |
| BHCO | Deciduous | 318 \pm 54 | 312 \pm 50 | 278 \pm 41 | 317 \pm 52 | 312 \pm 51 | 318681 | 305559 | 242938 | 315242 | 306559 | 1.0000 | 0.9588 | 0.7623 | 0.9892 | 0.9620 |
| BHCO | Road | 811 \pm 241 | 717 \pm 178 | 467 \pm 102 | 784 \pm 209 | 724 \pm 180 | 2067520 | 1617024 | 683986 | 1930874 | 1645432 | 1.0000 | 0.7821 | 0.3308 | 0.9339 | 0.7958 |
| BLWA | Conifer | 220 \pm 40 | 209 \pm 36 | 199 \pm 32 | 214 \pm 37 | 209 \pm 36 | 151680 | 137797 | 124066 | 144512 | 137427 | 1.0000 | 0.9085 | 0.8179 | 0.9527 | 0.9060 |

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|------|-----------|-----------|------------|-----------|-----------|-----------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| BLWA | Deciduous | 197 ± 36 | 189 ± 33 | 181 ± 29 | 193 ± 33 | 189 ± 32 | 121478 | 112408 | 103100 | 116837 | 112162 | 1.0000 | 0.9253 | 0.8487 | 0.9618 | 0.9233 |
| BLWA | Road | 517 ± 136 | 414 ± 94 | 346 ± 80 | 458 ± 108 | 412 ± 93 | 838861 | 538708 | 376011 | 658290 | 533089 | 1.0000 | 0.6422 | 0.4482 | 0.7847 | 0.6355 |
| BOOW | Conifer | 593 ± 127 | 548 ± 105 | 536 ± 99 | 529 ± 90 | 473 ± 74 | 1106172 | 944125 | 903878 | 879743 | 702424 | 1.0000 | 0.8535 | 0.8171 | 0.7953 | 0.6350 |
| BOOW | Deciduous | 665 ± 156 | 603 ± 117 | 588 ± 115 | 578 ± 106 | 507 ± 76 | 1389224 | 1142871 | 1084420 | 1049866 | 806810 | 1.0000 | 0.8227 | 0.7806 | 0.7557 | 0.5808 |
| BOOW | Road | NA | 827 ± 287 | 788 ± 259 | 766 ± 220 | 620 ± 133 | NA | 2150999 | 1952887 | 1843612 | 1205750 | NA | NA | NA | NA | NA |
| CATO | Conifer | 369 ± 54 | 360 ± 52 | 345 ± 47 | 358 ± 52 | 346 ± 48 | 428512 | 407623 | 372931 | 402582 | 375217 | 1.0000 | 0.9513 | 0.8703 | 0.9395 | 0.8756 |
| CATO | Deciduous | 453 ± 79 | 437 ± 70 | 409 ± 61 | 433 ± 70 | 411 ± 60 | 644911 | 598735 | 526759 | 587920 | 531331 | 1.0000 | 0.9284 | 0.8168 | 0.9116 | 0.8239 |
| CATO | Road | 527 ± 110 | 501 ± 100 | 461 ± 82 | 495 ± 99 | 464 ± 86 | 871521 | 789262 | 668798 | 770577 | 676186 | 1.0000 | 0.9056 | 0.7674 | 0.8842 | 0.7759 |
| CCSP | Conifer | 323 ± 56 | 304 ± 50 | 288 ± 45 | 313 ± 56 | 306 ± 49 | 327909 | 290576 | 259790 | 308570 | 293834 | 1.0000 | 0.8861 | 0.7923 | 0.9410 | 0.8961 |
| CCSP | Deciduous | 221 ± 38 | 215 ± 35 | 208 ± 33 | 218 ± 37 | 215 ± 36 | 153281 | 144597 | 136545 | 148918 | 145399 | 1.0000 | 0.9433 | 0.8908 | 0.9715 | 0.9486 |
| CCSP | Road | 717 ± 192 | 561 ± 129 | 474 ± 104 | 627 ± 153 | 572 ± 135 | 1615921 | 989455 | 704981 | 1234604 | 1028273 | 1.0000 | 0.6123 | 0.4363 | 0.7640 | 0.6363 |
| CMWA | Conifer | 204 ± 58 | 171 ± 37 | 143 ± 29 | 178 ± 42 | 163 ± 35 | 130129 | 92195 | 64544 | 99939 | 83796 | 1.0000 | 0.7085 | 0.4960 | 0.7680 | 0.6439 |
| CMWA | Deciduous | 183 ± 50 | 159 ± 34 | 136 ± 25 | 164 ± 36 | 152 ± 31 | 105434 | 79073 | 57826 | 84702 | 72813 | 1.0000 | 0.7500 | 0.5485 | 0.8034 | 0.6906 |
| CMWA | Road | NA | 272 ± 101 | 189 ± 53 | 303 ± 128 | 243 ± 80 | NA | 232105 | 111667 | 288352 | 185335 | NA | NA | NA | NA | NA |
| CORA | Conifer | 339 ± 52 | 336 ± 51 | 324 ± 45 | 335 ± 49 | 324 ± 46 | 360271 | 355630 | 329144 | 351526 | 328965 | 1.0000 | 0.9871 | 0.9136 | 0.9757 | 0.9131 |
| CORA | Deciduous | 402 ± 64 | 398 ± 62 | 377 ± 55 | 395 ± 61 | 377 ± 54 | 506688 | 497556 | 447208 | 489560 | 446878 | 1.0000 | 0.9820 | 0.8826 | 0.9662 | 0.8820 |
| CORA | Road | 617 ± 162 | 604 ± 149 | 538 ± 117 | 593 ± 141 | 538 ± 112 | 1195481 | 1145859 | 909937 | 1104322 | 908571 | 1.0000 | 0.9585 | 0.7611 | 0.9237 | 0.7600 |
| DEJU | Conifer | 338 ± 58 | 325 ± 53 | 305 ± 47 | 332 ± 56 | 323 ± 51 | 359372 | 331614 | 291619 | 345693 | 328565 | 1.0000 | 0.9228 | 0.8115 | 0.9619 | 0.9143 |
| DEJU | Deciduous | 272 ± 48 | 265 ± 44 | 253 ± 39 | 268 ± 47 | 264 ± 44 | 231936 | 220049 | 201693 | 226161 | 218702 | 1.0000 | 0.9487 | 0.8696 | 0.9751 | 0.9429 |
| DEJU | Road | 857 ± 266 | 691 ± 166 | 543 ± 124 | 765 ± 205 | 677 ± 168 | 2306824 | 1500568 | 925935 | 1839584 | 1440084 | 1.0000 | 0.6505 | 0.4014 | 0.7975 | 0.6243 |
| GGOW | Conifer | 451 ± 81 | 406 ± 62 | 417 ± 68 | 410 ± 61 | 370 ± 48 | 640105 | 517272 | 545437 | 528611 | 430366 | 1.0000 | 0.8081 | 0.8521 | 0.8258 | 0.6723 |
| GGOW | Deciduous | 552 ± 113 | 474 ± 76 | 492 ± 86 | 482 ± 78 | 420 ± 59 | 958741 | 707208 | 760929 | 728575 | 554202 | 1.0000 | 0.7376 | 0.7937 | 0.7599 | 0.5781 |
| GGOW | Road | 754 ± 288 | 585 ± 131 | 619 ± 163 | 598 ± 144 | 491 ± 88 | 1787139 | 1074656 | 1203800 | 1124781 | 757050 | 1.0000 | 0.6013 | 0.6736 | 0.6294 | 0.4236 |
| LEOW | Conifer | 439 ± 79 | 375 ± 52 | 376 ± 53 | 384 ± 56 | 350 ± 46 | 604238 | 442240 | 444761 | 463471 | 384757 | 1.0000 | 0.7319 | 0.7361 | 0.7670 | 0.6368 |
| LEOW | Deciduous | 604 ± 142 | 464 ± 78 | 466 ± 76 | 481 ± 81 | 419 ± 61 | 1147801 | 676832 | 682755 | 727862 | 550874 | 1.0000 | 0.5897 | 0.5948 | 0.6341 | 0.4799 |
| LEOW | Road | 761 ± 298 | 525 ± 110 | 528 ± 109 | 550 ± 121 | 462 ± 81 | 1818378 | 864916 | 874612 | 950033 | 669342 | 1.0000 | 0.4757 | 0.4810 | 0.5225 | 0.3681 |
| LISP | Conifer | 340 ± 56 | 335 ± 55 | 311 ± 46 | 335 ± 54 | 331 ± 53 | 362661 | 353478 | 303974 | 353358 | 344209 | 1.0000 | 0.9747 | 0.8382 | 0.9743 | 0.9491 |
| LISP | Deciduous | 315 ± 55 | 312 ± 51 | 292 ± 44 | 312 ± 51 | 308 ± 51 | 312364 | 305527 | 267827 | 305438 | 298578 | 1.0000 | 0.9781 | 0.8574 | 0.9778 | 0.9559 |
| LISP | Road | 883 ± 291 | 815 ± 222 | 582 ± 133 | 814 ± 227 | 757 ± 199 | 2450595 | 2084615 | 1063347 | 2080457 | 1798947 | 1.0000 | 0.8507 | 0.4339 | 0.8490 | 0.7341 |
| NSWO | Conifer | 514 ± 101 | 520 ± 101 | 492 ± 86 | 490 ± 85 | 461 ± 75 | 831479 | 848211 | 759484 | 755817 | 666715 | 1.0000 | 1.0201 | 0.9134 | 0.9090 | 0.8018 |
| NSWO | Deciduous | 654 ± 150 | 664 ± 155 | 609 ± 125 | 606 ± 120 | 553 ± 98 | 1342154 | 1386295 | 1164038 | 1155446 | 959430 | 1.0000 | 1.0329 | 0.8673 | 0.8609 | 0.7148 |
| NSWO | Road | NA | 1019 ± 570 | 846 ± 344 | 840 ± 304 | 712 ± 200 | NA | 3261993 | 2250769 | 2218867 | 1593628 | NA | NA | NA | NA | NA |
| OSFL | Conifer | 360 ± 57 | 356 ± 56 | 337 ± 49 | 359 ± 57 | 350 ± 54 | 407639 | 399089 | 357836 | 403974 | 385462 | 1.0000 | 0.9790 | 0.8778 | 0.9910 | 0.9456 |
| OSFL | Deciduous | 385 ± 66 | 381 ± 63 | 358 ± 55 | 383 ± 65 | 373 ± 62 | 466053 | 454911 | 402075 | 461269 | 437290 | 1.0000 | 0.9761 | 0.8627 | 0.9897 | 0.9383 |
| OSFL | Road | 672 ± 237 | 649 ± 204 | 552 ± 139 | 662 ± 216 | 614 ± 182 | 1419791 | 1321209 | 956249 | 1376306 | 1182781 | 1.0000 | 0.9306 | 0.6735 | 0.9694 | 0.8331 |
| OVEN | Conifer | 325 ± 52 | 315 ± 47 | 298 ± 43 | 319 ± 49 | 313 ± 46 | 331061 | 311820 | 278854 | 319042 | 308335 | 1.0000 | 0.9419 | 0.8423 | 0.9637 | 0.9314 |
| OVEN | Deciduous | 268 ± 46 | 262 ± 43 | 252 ± 39 | 264 ± 43 | 261 ± 41 | 225414 | 216326 | 199929 | 219777 | 214643 | 1.0000 | 0.9597 | 0.8869 | 0.9750 | 0.9522 |
| OVEN | Road | 810 ± 241 | 688 ± 167 | 550 ± 131 | 729 ± 201 | 670 ± 165 | 2059789 | 1488393 | 951477 | 1668686 | 1412204 | 1.0000 | 0.7226 | 0.4619 | 0.8101 | 0.6856 |
| PISI | Conifer | 309 ± 54 | 296 ± 48 | 281 ± 44 | 305 ± 52 | 298 ± 48 | 299449 | 275404 | 248338 | 292895 | 278887 | 1.0000 | 0.9197 | 0.8293 | 0.9781 | 0.9313 |
| PISI | Deciduous | 251 ± 44 | 244 ± 41 | 236 ± 36 | 249 ± 43 | 245 ± 43 | 198113 | 187294 | 174370 | 195222 | 188899 | 1.0000 | 0.9454 | 0.8802 | 0.9854 | 0.9535 |
| PISI | Road | 690 ± 184 | 576 ± 134 | 484 ± 105 | 654 ± 157 | 590 ± 138 | 1494823 | 1041080 | 737311 | 1344611 | 1092670 | 1.0000 | 0.6965 | 0.4932 | 0.8995 | 0.7310 |
| RBGR | Conifer | 352 ± 54 | 355 ± 53 | 337 ± 48 | 357 ± 55 | 345 ± 49 | 388454 | 396463 | 357506 | 399853 | 372913 | 1.0000 | 1.0206 | 0.9203 | 1.0293 | 0.9600 |
| RBGR | Deciduous | 460 ± 82 | 468 ± 82 | 429 ± 67 | 472 ± 80 | 445 ± 72 | 665431 | 689281 | 579496 | 699595 | 621090 | 1.0000 | 1.0358 | 0.8709 | 1.0513 | 0.9334 |
| RBGR | Road | 724 ± 246 | 757 ± 265 | 619 ± 161 | 772 ± 271 | 667 ± 191 | 1646605 | 1800795 | 1204587 | 1872936 | 1399394 | 1.0000 | 1.0936 | 0.7316 | 1.1375 | 0.8499 |
| RBNU | Conifer | 384 ± 54 | 383 ± 53 | 367 ± 49 | 385 ± 55 | 372 ± 52 | 462807 | 462006 | 422414 | 464594 | 435349 | 1.0000 | 0.9983 | 0.9127 | 1.0039 | 0.9407 |
| RBNU | Deciduous | 457 ± 71 | 457 ± 71 | 429 ± 62 | 459 ± 70 | 438 ± 63 | 657096 | 655483 | 578549 | 660704 | 603090 | 1.0000 | 0.9975 | 0.8805 | 1.0055 | 0.9178 |
| RBNU | Road | 686 ± 200 | 685 ± 189 | 601 ± 143 | 691 ± 189 | 626 ± 146 | 1480552 | 1472391 | 1133737 | 1498995 | 1231977 | 1.0000 | 0.9945 | 0.7658 | 1.0125 | 0.8321 |
| TEWA | Conifer | 242 ± 44 | 227 ± 36 | 205 ± 30 | 237 ± 41 | 232 ± 37 | 184312 | 161263 | 131965 | 176926 | 168614 | 1.0000 | 0.8749 | 0.7160 | 0.9599 | 0.9148 |
| TEWA | Deciduous | 200 ± 39 | 191 ± 34 | 177 ± 28 | 197 ± 37 | 194 ± 36 | 125623 | 114471 | 98887 | 122147 | 118127 | 1.0000 | 0.9112 | 0.7872 | 0.9723 | 0.9403 |
| TEWA | Road | 625 ± 159 | 447 ± 98 | 328 ± 71 | 553 ± 138 | 491 ± 115 | 1227152 | 628779 | 337030 | 960241 | 757566 | 1.0000 | 0.5124 | 0.2746 | 0.7825 | 0.6173 |
| WAVI | Conifer | 325 ± 54 | 319 ± 52 | 299 ± 44 | 324 ± 51 | 318 ± 50 | 330968 | 320161 | 280277 | 329029 | 317975 | 1.0000 | 0.9673 | 0.8468 | 0.9941 | 0.9607 |
| WAVI | Deciduous | 283 ± 48 | 280 ± 48 | 266 ± 42 | 283 ± 47 | 279 ± 47 | 252295 | 245966 | 221726 | 251166 | 244673 | 1.0000 | 0.9749 | 0.8788 | 0.9955 | 0.9698 |
| WAVI | Road | 787 ± 239 | 719 ± 181 | 548 ± 125 | 774 ± 219 | 707 ± 172 | 1946153 | 1623847 | 943138 | 1880981 | 1569126 | 1.0000 | 0.8344 | 0.4846 | 0.9665 | 0.8063 |
| WETO | Conifer | 340 ± 47 | 327 ± 44 | 312 ± 40 | 326 ± 43 | 306 ± 37 | 364208 | 335585 | 305270 | 333213 | 293587 | 1.0000 | 0.9214 | 0.8382 | 0.9149 | 0.8061 |

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|------|-----------|-----------|-----------|-----------|-----------|-----------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| WETO | Deciduous | 386 ± 57 | 367 ± 53 | 346 ± 47 | 365 ± 51 | 337 ± 44 | 468266 | 421989 | 375143 | 418246 | 357653 | 1.0000 | 0.9012 | 0.8011 | 0.8932 | 0.7638 |
| WETO | Road | 449 ± 84 | 419 ± 75 | 388 ± 61 | 417 ± 73 | 377 ± 59 | 633332 | 551529 | 474144 | 545152 | 446545 | 1.0000 | 0.8708 | 0.7487 | 0.8608 | 0.7051 |
| WTSP | Conifer | 398 ± 65 | 394 ± 64 | 379 ± 57 | 404 ± 70 | 394 ± 64 | 497421 | 488406 | 450744 | 512106 | 487937 | 1.0000 | 0.9819 | 0.9062 | 1.0295 | 0.9809 |
| WTSP | Deciduous | 427 ± 67 | 423 ± 66 | 404 ± 61 | 434 ± 70 | 422 ± 66 | 572980 | 561051 | 511915 | 592552 | 560432 | 1.0000 | 0.9792 | 0.8934 | 1.0342 | 0.9781 |
| WTSP | Road | 721 ± 239 | 700 ± 218 | 623 ± 169 | 758 ± 289 | 699 ± 214 | 1634891 | 1541379 | 1219736 | 1805002 | 1536714 | 1.0000 | 0.9428 | 0.7461 | 1.1041 | 0.9399 |
| YERA | Conifer | 212 ± 44 | 568 ± 41 | 536 ± 28 | 207 ± 43 | 203 ± 39 | 140596 | 1014684 | 902944 | 134210 | 129845 | 1.0000 | 7.2170 | 6.4223 | 0.9546 | 0.9235 |
| YERA | Deciduous | 188 ± 39 | 183 ± 37 | 158 ± 27 | 185 ± 37 | 182 ± 35 | 111247 | 105054 | 78683 | 107211 | 104407 | 1.0000 | 0.9443 | 0.7073 | 0.9637 | 0.9385 |
| YERA | Road | 442 ± 119 | 384 ± 92 | 244 ± 55 | 402 ± 108 | 379 ± 98 | 614773 | 463702 | 187026 | 508896 | 451357 | 1.0000 | 0.7543 | 0.3042 | 0.8278 | 0.7342 |