Table S8. The per-individual statistics for the proportion of missing SNPs, observed heterozygosity (HO), expected heterozygosity (HE), and FIS for 372 individuals of bighorn sheep.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Individual | Population | Missing | HO | HE | FIS |
| AZ95099 | Castle Dome Mtn, Arizona | 0.145916335 | 0.117055394 | 0.130305061 | 0.101681907 |
| AZ95100 | Castle Dome Mtn, Arizona | 0.246513944 | 0.139127561 | 0.130646256 | -0.064918089 |
| AZ014430 | E. Kofa Mtns, Arizona | 0.21875 | 0.130199203 | 0.128964271 | -0.009575769 |
| AZ014431 | E. Kofa Mtns, Arizona | 0.165587649 | 0.13652641 | 0.129506814 | -0.054202526 |
| AZ014434 | E. Kofa Mtns, Arizona | 0.166957171 | 0.12778359 | 0.13014967 | 0.018179689 |
| AZ02008 | Kofa Mtns, Arizona | 0.189741036 | 0.13798402 | 0.130751471 | -0.055315239 |
| AZ02009 | Kofa Mtns, Arizona | 0.211653386 | 0.130448515 | 0.128014294 | -0.019015235 |
| AZ02010 | Kofa Mtns, Arizona | 0.147534861 | 0.1378706 | 0.130218841 | -0.05876077 |
| SAE138 | Kofa Mtns, Arizona | 0.321215139 | 0.122523844 | 0.129666621 | 0.055085701 |
| SAE140 | Kofa Mtns, Arizona | 0.105453187 | 0.124704245 | 0.130125756 | 0.041663624 |
| NV98001 | Gabbs Valley, NV | 0.157246016 | 0.155562121 | 0.15177454 | -0.024955316 |
| NV98002 | Gabbs Valley, NV | 0.178535857 | 0.122764474 | 0.150829268 | 0.186069945 |
| NV98003 | Gabbs Valley, NV | 0.21625996 | 0.123431295 | 0.151187068 | 0.183585633 |
| NV98004 | Gabbs Valley, NV | 0.055278884 | 0.15985767 | 0.150861387 | -0.059632774 |
| NV98005 | Gabbs Valley, NV | 0.113296813 | 0.167509127 | 0.15125515 | -0.10746065 |
| NV98006 | Gabbs Valley, NV | 0.14940239 | 0.12324356 | 0.151202665 | 0.184911461 |
| NV98007 | Gabbs Valley, NV | 0.055403386 | 0.145643865 | 0.151072256 | 0.035932419 |
| NV98008 | Gabbs Valley, NV | 0.175672311 | 0.135478024 | 0.151178491 | 0.103853839 |
| NV98011 | Gabbs Valley, NV | 0.109312749 | 0.182555214 | 0.151500548 | -0.204980553 |
| NV98012 | Gabbs Valley, NV | 0.114417331 | 0.121045972 | 0.151453509 | 0.200771424 |
| NV98013 | Gabbs Valley, NV | 0.15438247 | 0.145759717 | 0.150745157 | 0.033071972 |
| NV98014 | Gabbs Valley, NV | 0.18251992 | 0.121535181 | 0.152837899 | 0.20480992 |
| NV98015 | Gabbs Valley, NV | 0.192604582 | 0.136006168 | 0.151978215 | 0.105094316 |
| NV98016 | Gabbs Valley, NV | 0.175298805 | 0.127868357 | 0.151348154 | 0.155137648 |
| NV98017 | Gabbs Valley, NV | 0.124252988 | 0.131504123 | 0.152593608 | 0.138206873 |
| NV98018 | Gabbs Valley, NV | 0.098481076 | 0.150117387 | 0.151576395 | 0.009625562 |
| NV98019 | Gabbs Valley, NV | 0.085283865 | 0.148359875 | 0.151592488 | 0.021324361 |
| NV98009 | Gabbs Valley, NV | 0.362051793 | 0.152224824 | 0.15199972 | -0.001480951 |
| NV98010 | Gabbs Valley, NV | 0.235059761 | 0.142089844 | 0.150000732 | 0.052738995 |
| NV94001 | Muddy Mtns, NV | 0.0999751 | 0.113017015 | 0.139098374 | 0.187502979 |
| NV94008 | Muddy Mtns, NV | 0.107694223 | 0.128087066 | 0.139015564 | 0.078613488 |
| NV94009 | Muddy Mtns, NV | 0.268550797 | 0.115234043 | 0.138889874 | 0.170320779 |
| NV94010 | Muddy Mtns, NV | 0.265313745 | 0.146415862 | 0.139953499 | -0.046175072 |
| NV94014 | Muddy Mtns, NV | 0.359561753 | 0.13744168 | 0.140292283 | 0.02031903 |
| NV94015 | Muddy Mtns, NV | 0.131972112 | 0.144721744 | 0.138455968 | -0.045254647 |
| NV94016 | Muddy Mtns, NV | 0.170318725 | 0.146458583 | 0.137790597 | -0.062906949 |
| NV94020 | Muddy Mtns, NV | 0.207918327 | 0.134706067 | 0.140281731 | 0.039746183 |
| NV95001 | Muddy Mtns, NV | 0.098605578 | 0.134668508 | 0.138710298 | 0.029138354 |
| NV95002 | Muddy Mtns, NV | 0.194845618 | 0.120303077 | 0.138842918 | 0.133531054 |
| NV95003 | Muddy Mtns, NV | 0.336155378 | 0.132408102 | 0.137253801 | 0.03530466 |
| NV95005 | Muddy Mtns, NV | 0.129731076 | 0.151645207 | 0.139435518 | -0.087565128 |
| NV95006 | Muddy Mtns, NV | 0.111678287 | 0.112683952 | 0.139113383 | 0.189984819 |
| NV95008 | Muddy Mtns, NV | 0.070966135 | 0.140310909 | 0.139135126 | -0.008450653 |
| NV95009 | Muddy Mtns, NV | 0.448082669 | 0.125874126 | 0.135678661 | 0.072262914 |
| NV95011 | Muddy Mtns, NV | 0.099103586 | 0.152985075 | 0.140216631 | -0.091062259 |
| NV95012 | Muddy Mtns, NV | 0.279880478 | 0.141943292 | 0.138265423 | -0.026600061 |
| NV95013 | Muddy Mtns, NV | 0.086653386 | 0.14612868 | 0.140109529 | -0.042960327 |
| NV95014 | Muddy Mtns, NV | 0.12001992 | 0.145444256 | 0.138589125 | -0.049463701 |
| NV95015 | Muddy Mtns, NV | 0.052664343 | 0.133000394 | 0.13929179 | 0.045167025 |
| NV95016 | Muddy Mtns, NV | 0.061628486 | 0.148069524 | 0.139375032 | -0.062381989 |
| NV95017 | Muddy Mtns, NV | 0.12001992 | 0.146010187 | 0.139444532 | -0.047084344 |
| NV95018 | Muddy Mtns, NV | 0.098979084 | 0.138731519 | 0.140307733 | 0.011233984 |
| NV95019 | Muddy Mtns, NV | 0.222360558 | 0.145052834 | 0.139086032 | -0.042900078 |
| NV95020 | Muddy Mtns, NV | 0.107694223 | 0.149853495 | 0.139134877 | -0.07703761 |
| NV95021 | Muddy Mtns, NV | 0.266060757 | 0.14605598 | 0.139294177 | -0.048543327 |
| NV95022 | Muddy Mtns, NV | 0.263695219 | 0.150490362 | 0.137326731 | -0.095856292 |
| AZ95046 | Black Mtns, AZ | 0.331673307 | 0.114008942 | 0.11632972 | 0.019950001 |
| AZ95047 | Black Mtns, AZ | 0.15749502 | 0.118073001 | 0.117645624 | -0.003632753 |
| AZ95048 | Black Mtns, AZ | 0.196962151 | 0.111627907 | 0.115878676 | 0.036682927 |
| AZ95049 | Black Mtns, AZ | 0.072086653 | 0.123842748 | 0.116956845 | -0.058875588 |
| AZ95050 | Black Mtns, AZ | 0.255976096 | 0.12248996 | 0.11632894 | -0.052962055 |
| YAQUI1 | Sonora, MX | 0.299925299 | 0.08091766 | 0.087149434 | 0.071506773 |
| YAQUI2 | Sonora, MX | 0.149277888 | 0.092638665 | 0.089352907 | -0.036772821 |
| YAQUI3 | Sonora, MX | 0.06125498 | 0.092440318 | 0.088880994 | -0.04004595 |
| YAQUI4 | Sonora, MX | 0.161728088 | 0.073369969 | 0.089892121 | 0.183799782 |
| YAQUI5 | Sonora, MX | 0.238545817 | 0.093361674 | 0.091670689 | -0.018446298 |
| TK200911 | Sierra Diablo WMA | 0.083789841 | 0.131539611 | 0.1337506 | 0.016530679 |
| TK249257 | Sierra Diablo WMA | 0.004606574 | 0.119074422 | 0.132283747 | 0.099856 |
| TK249258 | Sierra Diablo WMA | 0.022783865 | 0.158873742 | 0.129181398 | -0.229849994 |
| TK249259 | Sierra Diablo WMA | 0.019048805 | 0.150145958 | 0.130143933 | -0.153691568 |
| TK249260 | Sierra Diablo WMA | 0.011703187 | 0.131015369 | 0.131117432 | 0.000778409 |
| TK249261 | Sierra Diablo WMA | 0.0062251 | 0.136557254 | 0.131683796 | -0.037008786 |
| TK249262 | Sierra Diablo WMA | 0.018052789 | 0.150754406 | 0.131034024 | -0.150498178 |
| TK249263 | Sierra Diablo WMA | 0.005104582 | 0.143536479 | 0.132365423 | -0.084395575 |
| TK249264 | Sierra Diablo WMA | 0.004606574 | 0.142714196 | 0.132158556 | -0.079871032 |
| TK249265 | Sierra Diablo WMA | 0.002863546 | 0.129978774 | 0.132502406 | 0.019045937 |
| TK249266 | Sierra Diablo WMA | 0.007843625 | 0.141297528 | 0.131547559 | -0.074117444 |
| TK249267 | Sierra Diablo WMA | 0.00249004 | 0.138417374 | 0.132486869 | -0.044762965 |
| TK249268 | Sierra Diablo WMA | 0.00560259 | 0.138099412 | 0.1326248 | -0.041278942 |
| TK249269 | Sierra Diablo WMA | 0.023032869 | 0.120810501 | 0.131880407 | 0.083938972 |
| TK249270 | Sierra Diablo WMA | 0.013321713 | 0.138927445 | 0.13166774 | -0.055136551 |
| TK249271 | Sierra Diablo WMA | 0.0062251 | 0.13630669 | 0.131796756 | -0.034218858 |
| TK249272 | Sierra Diablo WMA | 0.014566733 | 0.134428301 | 0.132327597 | -0.015875022 |
| TK249273 | Sierra Diablo WMA | 0.002241036 | 0.123658597 | 0.132395306 | 0.065989563 |
| TK249274 | Sierra Diablo WMA | 0.018426295 | 0.141679351 | 0.13075243 | -0.08356954 |
| TK249275 | Sierra Diablo WMA | 0.006598606 | 0.13873919 | 0.131956658 | -0.0513997 |
| TK249276 | Sierra Diablo WMA | 0.003610558 | 0.121579408 | 0.13188509 | 0.078141372 |
| TK249277 | Sierra Diablo WMA | 0.010084661 | 0.138221607 | 0.131974862 | -0.047332845 |
| TK249278 | Sierra Diablo WMA | 0.014691235 | 0.118650493 | 0.13175547 | 0.099464389 |
| TK249279 | Sierra Diablo WMA | 0.008217131 | 0.124027115 | 0.132416508 | 0.063356093 |
| TK249280 | Sierra Diablo WMA | 0.012574701 | 0.141722355 | 0.130186686 | -0.088608669 |
| TK249281 | Sierra Diablo WMA | 0.017430279 | 0.127217435 | 0.132537284 | 0.040138508 |
| TK249282 | Sierra Diablo WMA | 0.018799801 | 0.125237914 | 0.13138787 | 0.046807638 |
| TK249283 | Sierra Diablo WMA | 0.010707171 | 0.140448024 | 0.132260294 | -0.061906183 |
| TK249284 | Sierra Diablo WMA | 0.023655378 | 0.142438154 | 0.12912955 | -0.103063968 |
| TK249285 | Sierra Diablo WMA | 0.037848606 | 0.176501035 | 0.126746243 | -0.392554379 |
| TK249286 | Sierra Diablo WMA | 0.018799801 | 0.143509707 | 0.129620208 | -0.107155352 |
| TK249287 | Beaches | 0.013446215 | 0.118626956 | 0.128159904 | 0.074383232 |
| TK249288 | Beaches | 0.03187251 | 0.137345679 | 0.127455616 | -0.07759613 |
| TK249289 | Beaches | 0.02440239 | 0.126595202 | 0.128324958 | 0.013479501 |
| TK249290 | Beaches | 0.015811753 | 0.139784946 | 0.126682081 | -0.103431088 |
| TK249291 | Beaches | 0.018052789 | 0.132750095 | 0.127719505 | -0.039387796 |
| TK249292 | Beaches | 0.017056773 | 0.128689044 | 0.127653257 | -0.008114061 |
| TK249293 | Beaches | 0.004855578 | 0.123232829 | 0.12822739 | 0.038950814 |
| TK249294 | Beaches | 0.003984064 | 0.1205 | 0.128171794 | 0.059855556 |
| TK249295 | Beaches | 0.013944223 | 0.137878788 | 0.128199535 | -0.075501465 |
| TK249296 | Beaches | 0.014317729 | 0.12340533 | 0.128155059 | 0.037062355 |
| TK249297 | Baylor | 0.017554781 | 0.114053986 | 0.118880011 | 0.040595766 |
| TK249298 | Baylor | 0.047684263 | 0.127990587 | 0.116184166 | -0.101618156 |
| TK249299 | Baylor | 0.008466135 | 0.102209945 | 0.118521219 | 0.137623243 |
| TK249300 | Baylor | 0.011329681 | 0.108802418 | 0.118027042 | 0.078156871 |
| TK249302 | Baylor | 0.03187251 | 0.126286008 | 0.118686397 | -0.064031021 |
| TK249303 | Baylor | 0.005229084 | 0.116770964 | 0.118883104 | 0.017766529 |
| TK249304 | Baylor | 0.003984064 | 0.112125 | 0.118751881 | 0.055804432 |
| TK249305 | Baylor | 0.002739044 | 0.128089888 | 0.11910961 | -0.075395071 |
| TK249306 | Baylor | 0.013570717 | 0.132273129 | 0.119227805 | -0.109415117 |
| TK249307\_Nov2016 | Baylor | 0.002116534 | 0.143480973 | 0.119050563 | -0.205210374 |
| TK256543 | Van Horn | 0.498007968 | 0.168154762 | 0.116199914 | -0.447116056 |
| TK256544 | Van Horn | 0.011578685 | 0.138808414 | 0.118492407 | -0.171454084 |
| TK256545 | Van Horn | 0.006474104 | 0.133834586 | 0.119949199 | -0.115760569 |
| TK256546 | Van Horn | 0.012574701 | 0.13945278 | 0.11882018 | -0.173645592 |
| TK256547 | Van Horn | 0.08814741 | 0.131075915 | 0.121260188 | -0.080947645 |
| TK256548 | Van Horn | 0.004233068 | 0.116654164 | 0.120157389 | 0.029155309 |
| TK256549 | Van Horn | 0.023157371 | 0.159954117 | 0.115792706 | -0.381383358 |
| TK256550 | Van Horn | 0.006474104 | 0.122305764 | 0.120516592 | -0.014845864 |
| TK256551 | Van Horn | 0.009462151 | 0.120915033 | 0.119464091 | -0.012145418 |
| TK256552 | Van Horn | 0.017554781 | 0.122164491 | 0.116704365 | -0.04678596 |
| TK256553 | Van Horn | 0.010707171 | 0.108859804 | 0.120158696 | 0.094033082 |
| TK256554 | Van Horn | 0.014566733 | 0.129753632 | 0.119454669 | -0.0862165 |
| TK256555 | Van Horn | 0.009960159 | 0.11556841 | 0.119036159 | 0.02913189 |
| TK256556 | Van Horn | 0.006972112 | 0.106318957 | 0.120403704 | 0.116979352 |
| TK256558 | Van Horn | 0.022036853 | 0.12170592 | 0.118435519 | -0.027613345 |
| TK256559 | Van Horn | 0.00124502 | 0.137247569 | 0.120471861 | -0.139250009 |
| TK256560 | Van Horn | 0.006474104 | 0.129072682 | 0.119603162 | -0.079174495 |
| TK256561 | Van Horn | 0.174302789 | 0.156664656 | 0.113192568 | -0.384054266 |
| TK256564 | Van Horn | 0.141060757 | 0.136251631 | 0.118646903 | -0.148379154 |
| TK256573 | Van Horn | 0.00249004 | 0.106090864 | 0.12029921 | 0.118108393 |
| TK256574 | Van Horn | 0.202191235 | 0.118445693 | 0.117402064 | -0.008889358 |
| TK256575 | Van Horn | 0.001743028 | 0.128336243 | 0.12024752 | -0.067267282 |
| TK256576 | Van Horn | 0.000996016 | 0.119765703 | 0.120455915 | 0.005729997 |
| TK256577 | Van Horn | 0.144297809 | 0.113342063 | 0.120736814 | 0.061246861 |
| TK256578 | Van Horn | 0.150149402 | 0.127160856 | 0.119480803 | -0.064278548 |
| TK256582 | Van Horn | 0.047186255 | 0.118384947 | 0.120269274 | 0.015667568 |
| TK256583 | Van Horn | 0.010956175 | 0.134818731 | 0.120602512 | -0.11787664 |
| TK256585 | Van Horn | 0.021414343 | 0.132951654 | 0.120957024 | -0.099164395 |
| TK256609 | Van Horn | 0.066733068 | 0.13153682 | 0.119490287 | -0.100816001 |
| TK256610 | Van Horn | 0.016807769 | 0.112194504 | 0.120208858 | 0.066670242 |
| TK256621 | Van Horn | 0.021289841 | 0.129627274 | 0.119810505 | -0.081935793 |
| TK256622 | Van Horn | 0.016683267 | 0.135224107 | 0.116470947 | -0.161011485 |
| TK256623 | Van Horn | 0.006349602 | 0.118531512 | 0.119197061 | 0.005583599 |
| TK256624 | Van Horn | 0.004108566 | 0.125640705 | 0.120270272 | -0.044653036 |
| TK256625 | Van Horn | 0.010084661 | 0.121871463 | 0.120390486 | -0.012301444 |
| TK256630 | Van Horn | 0.009337649 | 0.116124167 | 0.119019434 | 0.024326002 |
| TK256633 | Van Horn | 0.005104582 | 0.129770992 | 0.120331406 | -0.078446572 |
| TK249450 | Van Horn | 0.02689243 | 0.129733879 | 0.12044821 | -0.077092626 |
| TX001 | Elephant Mountain WMA 2000 | 0.130851594 | 0.142386478 | 0.135075448 | -0.054125523 |
| TX002 | Elephant Mountain WMA 2000 | 0.259337649 | 0.145402589 | 0.135177099 | -0.07564513 |
| TX003 | Elephant Mountain WMA 2000 | 0.092629482 | 0.106888035 | 0.135238455 | 0.209632827 |
| TX004 | Elephant Mountain WMA 2000 | 0.138321713 | 0.140875596 | 0.136059594 | -0.035396271 |
| TX005 | Elephant Mountain WMA 2000 | 0.06997012 | 0.13601071 | 0.13570801 | -0.002230517 |
| TX006 | Elephant Mountain WMA 2000 | 0.18936753 | 0.147289203 | 0.134851642 | -0.092231437 |
| TX007 | Elephant Mountain WMA 2000 | 0.219870518 | 0.150494733 | 0.134871168 | -0.115840662 |
| TX008 | Elephant Mountain WMA 2000 | 0.106698207 | 0.140487805 | 0.13540015 | -0.037574959 |
| TX009 | Elephant Mountain WMA 2000 | 0.210034861 | 0.140267928 | 0.136680977 | -0.026243234 |
| TX010 | Elephant Mountain WMA 2000 | 0.110433267 | 0.128481456 | 0.134460878 | 0.044469604 |
| TK249344 | Elephant Mountain WMA | 0.005727092 | 0.138116704 | 0.134131869 | -0.029708341 |
| TK249345 | Elephant Mountain WMA | 0.049053785 | 0.146373396 | 0.132781771 | -0.102360622 |
| TK249346 | Elephant Mountain WMA | 0.022410359 | 0.13996434 | 0.133579723 | -0.047796305 |
| TK249347 | Elephant Mountain WMA | 0.013446215 | 0.149419485 | 0.131584849 | -0.135537156 |
| TK249348 | Elephant Mountain WMA | 0.016807769 | 0.13828036 | 0.134003244 | -0.031917998 |
| TK249349 | Elephant Mountain WMA | 0.184636454 | 0.136204001 | 0.135311718 | -0.006594275 |
| TK249350 | Elephant Mountain WMA | 0.005229084 | 0.135544431 | 0.134039242 | -0.01122946 |
| TK249351 | Elephant Mountain WMA | 0.105453187 | 0.107863605 | 0.135552775 | 0.204268564 |
| TK249352 | Elephant Mountain WMA | 0.008964143 | 0.143341709 | 0.13399056 | -0.069789606 |
| TK249353 | Elephant Mountain WMA | 0.00124502 | 0.128396909 | 0.133934161 | 0.041343094 |
| TK249354 | Elephant Mountain WMA | 0.001120518 | 0.14159292 | 0.133939001 | -0.057144812 |
| TK249355 | Elephant Mountain WMA | 0.003859562 | 0.13648294 | 0.133982155 | -0.018665054 |
| TK249356 | Elephant Mountain WMA | 0.002365538 | 0.100711344 | 0.133958765 | 0.248191457 |
| TK249357 | Elephant Mountain WMA | 0.005727092 | 0.137490609 | 0.133777388 | -0.027756715 |
| TK249358 | Elephant Mountain WMA | 0.003237052 | 0.137396952 | 0.133966933 | -0.025603473 |
| TK249359 | Elephant Mountain WMA | 0.008092629 | 0.141709552 | 0.133906772 | -0.058270241 |
| TK249360 | Elephant Mountain WMA | 0.001120518 | 0.135360838 | 0.134121472 | -0.00924062 |
| TK249361 | Elephant Mountain WMA | 0.007719124 | 0.14642409 | 0.133550959 | -0.096391159 |
| TK249362 | Elephant Mountain WMA | 0.012574701 | 0.128987517 | 0.13392194 | 0.036845512 |
| TK249363 | Elephant Mountain WMA | 0.011578685 | 0.138052651 | 0.133634349 | -0.033062624 |
| TK249364 | Elephant Mountain WMA | 0.003984064 | 0.13725 | 0.133978571 | -0.024417555 |
| TK249365 | Elephant Mountain WMA | 0.002116534 | 0.134373051 | 0.133938114 | -0.003247294 |
| TK249366 | Elephant Mountain WMA | 0.006474104 | 0.141478697 | 0.133964345 | -0.056092178 |
| TK249367 | Elephant Mountain WMA | 0.001369522 | 0.137638698 | 0.133933679 | -0.027663088 |
| TK249368 | Elephant Mountain WMA | 0.014442231 | 0.13365336 | 0.134097263 | 0.003310305 |
| TK249369 | Elephant Mountain WMA | 0.00435757 | 0.139927473 | 0.133954059 | -0.044593003 |
| TK249370 | Elephant Mountain WMA | 0.016434263 | 0.143037975 | 0.131314291 | -0.089279573 |
| TK249371 | Elephant Mountain WMA | 0.003610558 | 0.131950519 | 0.134056753 | 0.015711516 |
| TK249372 | Elephant Mountain WMA | 0.005104582 | 0.135652609 | 0.133766426 | -0.014100574 |
| TK249373 | Elephant Mountain WMA | 0.007968127 | 0.139558233 | 0.132874232 | -0.050303211 |
| TK249374 | Elephant Mountain WMA | 0.005353586 | 0.129302791 | 0.133431406 | 0.030941853 |
| TK249375 | Elephant Mountain WMA | 0.015936255 | 0.140435223 | 0.133961354 | -0.048326393 |
| TK249376 | Elephant Mountain WMA | 0.02626992 | 0.137834037 | 0.133419916 | -0.033084418 |
| TK249377 | Elephant Mountain WMA | 0.050298805 | 0.132013634 | 0.134229138 | 0.016505386 |
| TK249378 | Elephant Mountain WMA | 0.031374502 | 0.1281491 | 0.134154406 | 0.044764133 |
| TK249379 | Elephant Mountain WMA | 0.052539841 | 0.137713535 | 0.133962791 | -0.0279984 |
| TK249380 | Elephant Mountain WMA | 0.0250249 | 0.123994381 | 0.133806177 | 0.073328419 |
| TK249381 | Elephant Mountain WMA | 0.014940239 | 0.135490394 | 0.134239646 | -0.009317279 |
| TK249382 | Elephant Mountain WMA | 0.037101594 | 0.144944401 | 0.134144265 | -0.08051135 |
| TK249383 | Elephant Mountain WMA | 0.022161355 | 0.141201935 | 0.133871933 | -0.054753838 |
| TK249384 | Elephant Mountain WMA | 0.006100598 | 0.136665414 | 0.134016983 | -0.019761907 |
| TK249385 | Elephant Mountain WMA | 0.013197211 | 0.141307091 | 0.134046317 | -0.054166152 |
| TK249386 | Elephant Mountain WMA | 0.012948207 | 0.134712412 | 0.132709968 | -0.01508887 |
| TK249387 | Elephant Mountain WMA | 0.046065737 | 0.132471939 | 0.134231295 | 0.013106894 |
| TK249388 | Elephant Mountain WMA | 0.02813745 | 0.141685883 | 0.134263743 | -0.055280298 |
| TK249389 | Elephant Mountain WMA | 0.005851594 | 0.140388228 | 0.134027419 | -0.047459009 |
| TK249390 | Elephant Mountain WMA | 0.007843625 | 0.137783913 | 0.133741033 | -0.030229162 |
| TK249391 | Elephant Mountain WMA | 0.005353586 | 0.137438979 | 0.134210933 | -0.024052034 |
| TK249392 | Elephant Mountain WMA | 0.006723108 | 0.102406618 | 0.133807982 | 0.234674821 |
| TK249393 | Elephant Mountain WMA | 0.011827689 | 0.138213431 | 0.133892759 | -0.032269646 |
| TK249394 | Elephant Mountain WMA | 0.068974104 | 0.139208344 | 0.133859475 | -0.039958837 |
| TK249395 | Elephant Mountain WMA | 0.064865538 | 0.136067102 | 0.134975294 | -0.008088942 |
| TK249396 | Elephant Mountain WMA | 0.033242032 | 0.133676755 | 0.13403078 | 0.002641375 |
| TK249397 | Elephant Mountain WMA | 0.039218127 | 0.127251523 | 0.133933242 | 0.049888433 |
| TK249398 | Elephant Mountain WMA | 0.06374502 | 0.142553191 | 0.134745676 | -0.057942608 |
| TK249399 | Elephant Mountain WMA | 0.010458167 | 0.137393055 | 0.13368509 | -0.027736566 |
| TK249400 | Elephant Mountain WMA | 0.001369522 | 0.13315048 | 0.133811884 | 0.004942788 |
| TK249401 | Elephant Mountain WMA | 0.006723108 | 0.141764853 | 0.13357693 | -0.061297436 |
| TK249402 | Elephant Mountain WMA | 0.009337649 | 0.137489003 | 0.133605592 | -0.02906623 |
| TK249403 | Elephant Mountain WMA | 0.004108566 | 0.140142518 | 0.133611234 | -0.048882743 |
| TK249404 | Elephant Mountain WMA | 0.001992032 | 0.127245509 | 0.133835205 | 0.049237392 |
| TK249405 | Elephant Mountain WMA | 0.010084661 | 0.150547101 | 0.133898198 | -0.124340007 |
| TK249406 | Elephant Mountain WMA | 0.001369522 | 0.131405062 | 0.133937684 | 0.018908958 |
| TK249407 | Elephant Mountain WMA | 0.002365538 | 0.144265568 | 0.133944659 | -0.077053537 |
| TK249408 | Elephant Mountain WMA | 0.002988048 | 0.122752248 | 0.133768282 | 0.082351618 |
| TK249409 | Elephant Mountain WMA | 0.018052789 | 0.131735768 | 0.131366825 | -0.002808495 |
| TK249410 | Elephant Mountain WMA | 0.030751992 | 0.14026975 | 0.13087388 | -0.071793315 |
| TK249411 | Elephant Mountain WMA | 0.005229084 | 0.137546934 | 0.133439634 | -0.030780211 |
| TK249412 | Elephant Mountain WMA | 0.004233068 | 0.13715929 | 0.133567597 | -0.026890447 |
| TK249413 | Elephant Mountain WMA | 0.004731076 | 0.137353015 | 0.133697074 | -0.027344958 |
| TK249414 | Elephant Mountain WMA | 0.012076693 | 0.145809704 | 0.133664608 | -0.090862462 |
| TK249416 | Elephant Mountain WMA | 0.013819721 | 0.128519126 | 0.134425919 | 0.043940876 |
| TK249417 | Elephant Mountain WMA | 0.002863546 | 0.130228493 | 0.133634733 | 0.025489179 |
| TK249418 | Elephant Mountain WMA | 0.010582669 | 0.125959482 | 0.132958948 | 0.052643816 |
| TK249419 | Elephant Mountain WMA | 0.006474104 | 0.147869674 | 0.133078444 | -0.1111467 |
| TK249420 | Elephant Mountain WMA | 0.026518924 | 0.143496611 | 0.131084863 | -0.094684833 |
| TK249421 | Elephant Mountain WMA | 0.016932271 | 0.128926039 | 0.132269117 | 0.025274822 |
| TK249422 | Elephant Mountain WMA | 0.037599602 | 0.133247089 | 0.132927078 | -0.002407422 |
| TK249423 | Elephant Mountain WMA | 0.017679283 | 0.140430925 | 0.132830337 | -0.05722027 |
| TK249424 | Elephant Mountain WMA | 0.009213147 | 0.12264388 | 0.133119934 | 0.078696353 |
| TK249425 | Elephant Mountain WMA | 0.014068725 | 0.134612956 | 0.133772082 | -0.00628587 |
| TK256684 | Elephant Mountain WMA | 0.007594622 | 0.137372977 | 0.133942754 | -0.025609623 |
| TK256685 | Elephant Mountain WMA | 0.018426295 | 0.135844749 | 0.134256762 | -0.011827986 |
| TK256686 | Elephant Mountain WMA | 0.029755976 | 0.137815989 | 0.131160342 | -0.050744356 |
| TK256687 | Elephant Mountain WMA | 0.017803785 | 0.13385727 | 0.133876773 | 0.000145685 |
| TK256688 | Elephant Mountain WMA | 0.022285857 | 0.144148733 | 0.132425624 | -0.08852599 |
| TK256689 | Elephant Mountain WMA | 0.010582669 | 0.133383667 | 0.132977605 | -0.003053607 |
| TK256690 | Elephant Mountain WMA | 0.209163347 | 0.136964736 | 0.136825647 | -0.00101654 |
| TK256691 | Elephant Mountain WMA | 0.402888446 | 0.133027523 | 0.138951502 | 0.042633428 |
| TK256692 | Elephant Mountain WMA | 0.019422311 | 0.136617572 | 0.131751251 | -0.036935671 |
| TK256693 | Elephant Mountain WMA | 0.359561753 | 0.133942457 | 0.138890657 | 0.035626588 |
| TK256694 | Elephant Mountain WMA | 0.054780876 | 0.134351949 | 0.134885562 | 0.003956043 |
| TK256695 | Elephant Mountain WMA | 0.490662351 | 0.157907602 | 0.135765797 | -0.163088241 |
| TK256696 | Elephant Mountain WMA | 0.060258964 | 0.14427663 | 0.133469801 | -0.080968343 |
| TK256697 | Elephant Mountain WMA | 0.020293825 | 0.131782946 | 0.132594616 | 0.006121443 |
| TK256698 | Elephant Mountain WMA | 0.005478088 | 0.126314472 | 0.133607049 | 0.054582277 |
| TK256699 | Elephant Mountain WMA | 0.195468127 | 0.144227793 | 0.136392709 | -0.057445037 |
| TK256700 | Elephant Mountain WMA | 0.026643426 | 0.13123561 | 0.13404539 | 0.020961404 |
| TK256721 | Elephant Mountain WMA | 0.206673307 | 0.134337728 | 0.138520778 | 0.030198001 |
| TK256722 | Elephant Mountain WMA | 0.348854582 | 0.148374761 | 0.142093061 | -0.044208354 |
| TK256723 | Elephant Mountain WMA | 0.095244024 | 0.189349112 | 0.127196377 | -0.488636057 |
| TK256724 | Elephant Mountain WMA | 0.616284861 | 0.140817651 | 0.136352716 | -0.032745475 |
| TK256725 | Elephant Mountain WMA | 0.302290837 | 0.183797288 | 0.12914402 | -0.423196271 |
| TK256726 | Elephant Mountain WMA | 0.31312251 | 0.134312126 | 0.137993628 | 0.02667878 |
| TK256727 | Elephant Mountain WMA | 0.013197211 | 0.13108756 | 0.133890483 | 0.020934444 |
| TK256728 | Elephant Mountain WMA | 0.006349602 | 0.137451447 | 0.133406683 | -0.030319055 |
| TK256729 | Elephant Mountain WMA | 0.004731076 | 0.125344008 | 0.133910091 | 0.063968914 |
| TK256730 | Elephant Mountain WMA | 0.016309761 | 0.138210353 | 0.132852919 | -0.040326058 |
| TK256731 | Elephant Mountain WMA | 0.007345618 | 0.140599523 | 0.133182855 | -0.055687862 |
| TK256732 | Elephant Mountain WMA | 0.012076693 | 0.137240076 | 0.133292586 | -0.029615226 |
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| TK256734 | Elephant Mountain WMA | 0.014442231 | 0.134537645 | 0.134170648 | -0.0027353 |
| TK256735 | Elephant Mountain WMA | 0.049178287 | 0.131465235 | 0.13364787 | 0.016331236 |
| TK256736 | Elephant Mountain WMA | 0.027141434 | 0.14474021 | 0.13436955 | -0.077180131 |
| TK256737 | Elephant Mountain WMA | 0.001494024 | 0.131795511 | 0.13405284 | 0.016839094 |
| TK256738 | Elephant Mountain WMA | 0.00560259 | 0.140853888 | 0.133275702 | -0.056860972 |
| TK256739 | Elephant Mountain WMA | 0.437250996 | 0.146238938 | 0.135287568 | -0.080948831 |
| TK256740 | Elephant Mountain WMA | 0.0062251 | 0.138185918 | 0.133896941 | -0.032031927 |
| TK256741 | Elephant Mountain WMA | 0.029755976 | 0.140895676 | 0.132412962 | -0.064062558 |
| TK256742 | Elephant Mountain WMA | 0.414218127 | 0.173007439 | 0.133252327 | -0.298344598 |
| TK256743 | Elephant Mountain WMA | 0.006100598 | 0.135287486 | 0.133906989 | -0.010309372 |
| TK256744 | Elephant Mountain WMA | 0.064118526 | 0.151656246 | 0.131506682 | -0.153220837 |
| TK256745 | Elephant Mountain WMA | 0.009213147 | 0.139733601 | 0.134035386 | -0.042512766 |
| TK256746 | Elephant Mountain WMA | 0.013197211 | 0.124274539 | 0.133877268 | 0.071727851 |
| TK256747 | Elephant Mountain WMA | 0.00560259 | 0.136096156 | 0.134121813 | -0.014720524 |
| TK256748 | Elephant Mountain WMA | 0.02440239 | 0.147396631 | 0.131326691 | -0.122366136 |
| TK256749 | Elephant Mountain WMA | 0.016807769 | 0.142712422 | 0.132671954 | -0.075678907 |
| TK256750 | Elephant Mountain WMA | 0.009088645 | 0.141223772 | 0.133798515 | -0.05549581 |
| TK256751 | Elephant Mountain WMA | 0.083167331 | 0.140277023 | 0.13178409 | -0.064445814 |
| TK256752 | Elephant Mountain WMA | 0.006723108 | 0.138380547 | 0.133743783 | -0.034669006 |
| TK256753 | Elephant Mountain WMA | 0.013321713 | 0.141072555 | 0.134041912 | -0.052451084 |
| TK256754 | Elephant Mountain WMA | 0.012948207 | 0.136730575 | 0.133018226 | -0.027908573 |
| TK256755 | Elephant Mountain WMA | 0.12749004 | 0.180650685 | 0.128439574 | -0.406503307 |
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| TK256757 | Elephant Mountain WMA | 0.008341633 | 0.140991839 | 0.133745425 | -0.054180649 |
| TK256758 | Elephant Mountain WMA | 0.002739044 | 0.128963795 | 0.133782427 | 0.036018421 |
| TK256760 | Elephant Mountain WMA | 0.018799801 | 0.139449308 | 0.133999538 | -0.040670069 |
| TK256761 | Elephant Mountain WMA | 0.010831673 | 0.135305223 | 0.132666872 | -0.019887043 |
| TK256762 | Elephant Mountain WMA | 0.069721116 | 0.135171306 | 0.135010069 | -0.001194261 |
| TK256763 | Elephant Mountain WMA | 0.009835657 | 0.134414686 | 0.133137198 | -0.009595276 |
| TK256764 | Elephant Mountain WMA | 0.022783865 | 0.143202956 | 0.132097648 | -0.08406893 |
| TK256765 | Elephant Mountain WMA | 0.06561255 | 0.141105929 | 0.13464979 | -0.047947637 |
| TK256766 | Elephant Mountain WMA | 0.00684761 | 0.142284067 | 0.133277391 | -0.067578423 |
| TK256767 | Elephant Mountain WMA | 0.075199203 | 0.126144319 | 0.132793514 | 0.050071688 |
| TK256768 | Elephant Mountain WMA | 0.017928287 | 0.138945233 | 0.134228183 | -0.035142027 |
| TK256769 | Elephant Mountain WMA | 0.123256972 | 0.137034933 | 0.134810751 | -0.016498555 |
| TK256770 | Elephant Mountain WMA | 0.008341633 | 0.132705587 | 0.134128128 | 0.01060584 |
| TK256772 | Elephant Mountain WMA | 0.230453187 | 0.173111147 | 0.13221069 | -0.309358174 |
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| TK256774 | Elephant Mountain WMA | 0.018675299 | 0.136894189 | 0.132987854 | -0.029373621 |
| TK256775 | Elephant Mountain WMA | 0.022285857 | 0.139946517 | 0.133110009 | -0.051359833 |
| TK256776 | Elephant Mountain WMA | 0.003610558 | 0.147694615 | 0.134234728 | -0.100271265 |
| TK256777 | Elephant Mountain WMA | 0.006723108 | 0.135873653 | 0.133654158 | -0.016606253 |
| TK256759 | Elephant Mountain WMA | 0.03436255 | 0.144404332 | 0.134341112 | -0.074907969 |
| TK259800 | Elephant Mountain WMA | 0.023032869 | 0.126927488 | 0.134235832 | 0.05444406 |
| TK249336 | Dove | 0.009337649 | 0.149428176 | 0.140861704 | -0.060814771 |
| TK249337 | Dove | 0.016309761 | 0.145930895 | 0.140428888 | -0.039180022 |
| TK249343 | Dove | 0.383092629 | 0.146720484 | 0.145762992 | -0.006568827 |
| TK249333 | Dove | 0.014940239 | 0.156471183 | 0.140971529 | -0.109948824 |
| TK249334 | Dove | 0.002116534 | 0.136369308 | 0.140802275 | 0.031483632 |
| TK249335 | Dove | 0.005229084 | 0.148811014 | 0.140863986 | -0.056416322 |
| TK249338 | Basse | 0.018177291 | 0.159142785 | NA | NA |
| TK249340 | Basse | 0.003361554 | 0.093066833 | NA | NA |
| TK249341 | Basse | 0.034113546 | 0.109564321 | NA | NA |
| TK249342 | Basse | 0.010084661 | 0.103131682 | NA | NA |
| TK249307\_Oct2017 | Black Gap WMA | 0.021165339 | 0.154922412 | 0.143277511 | -0.081275148 |
| TK249308 | Black Gap WMA | 0.006598606 | 0.14751222 | 0.143351823 | -0.029022276 |
| TK249309 | Black Gap WMA | 0.017679283 | 0.144993663 | 0.143155507 | -0.012840274 |
| TK249310 | Black Gap WMA | 0.024526892 | 0.131716656 | 0.143619919 | 0.082880306 |
| TK249311 | Black Gap WMA | 0.009337649 | 0.141007918 | 0.143399403 | 0.016677096 |
| TK249312 | Black Gap WMA | 0.040961155 | 0.126703882 | 0.143426702 | 0.11659489 |
| TK249313 | Black Gap WMA | 0.019297809 | 0.132156913 | 0.143534322 | 0.079266125 |
| TK249314 | Black Gap WMA | 0.008466135 | 0.149924661 | 0.143275598 | -0.046407505 |
| TK249315 | Black Gap WMA | 0.018675299 | 0.145267699 | 0.14315951 | -0.014726154 |
| TK249316 | Black Gap WMA | 0.004108566 | 0.145268159 | 0.143276543 | -0.013900501 |
| TK249317 | Black Gap WMA | 0.003859562 | 0.146606674 | 0.142889643 | -0.026013302 |
| TK249318 | Black Gap WMA | 0.007843625 | 0.147320868 | 0.143220108 | -0.028632572 |
| TK249319 | Black Gap WMA | 0.009835657 | 0.163208852 | 0.142112268 | -0.148450126 |
| TK249320 | Black Gap WMA | 0.006598606 | 0.106654969 | 0.143522931 | 0.256878544 |
| TK249321 | Black Gap WMA | 0.001120518 | 0.156051352 | 0.14331888 | -0.08884016 |
| TK249322 | Black Gap WMA | 0.020169323 | 0.145108005 | 0.14188796 | -0.022694281 |
| TK249323 | Black Gap WMA | 0.002116534 | 0.149844042 | 0.143189892 | -0.046470811 |
| TK249324 | Black Gap WMA | 0.013197211 | 0.162881655 | 0.142821081 | -0.14045948 |
| TK249325 | Black Gap WMA | 0.02564741 | 0.145284948 | 0.140614035 | -0.033217971 |
| TK249326 | Black Gap WMA | 0.007345618 | 0.155775743 | 0.142450514 | -0.093542864 |
| TK249330 | Black Gap WMA | 0.044696215 | 0.129414831 | 0.144469965 | 0.104209435 |
| TK249331 | Black Gap WMA | 0.035358566 | 0.141068663 | 0.143452767 | 0.016619438 |
| TK249332 | Black Gap WMA | 0.037599602 | 0.146313066 | 0.143251942 | -0.021368812 |
| TK259851 | Ord Mountain, CA | 0.008715139 | 0.154986184 | NA | NA |
| PEBS-2020-004-019 | Fish Creek Mtns, CA | 0.046190239 | 0.117739199 | 0.125722408 | 0.063498701 |
| PEBS-2020-004-027 | Anza-Borrego Desert State Park, CA | 0.026643426 | 0.120746994 | 0.125695131 | 0.039366178 |
| PEBS-2020-004-032 | Anza-Borrego Desert State Park, CA | 0.027016932 | 0.103007038 | 0.126233356 | 0.183995092 |
| PEBS-2020-004-038 | Anza-Borrego Desert State Park, CA | 0.028510956 | 0.113674228 | 0.126371832 | 0.100478123 |
| PEBS-2020-004-051 | Indian Canyons, CA | 0.026767928 | 0.125111936 | 0.125219967 | 0.000862737 |
| PEBS-2020-004-060 | Indian Canyons, CA | 0.058017928 | 0.116970658 | 0.125800948 | 0.070192554 |
| PEBS-2020-004-064 | Santa Rosa and San Jacinto Mtns, CA | 0.028012948 | 0.129627258 | 0.126103577 | -0.027942746 |
| PEBS-2020-004-065 | Santa Rosa and San Jacinto Mtns, CA | 0.041708167 | 0.113031051 | 0.125724537 | 0.100962681 |
| PEBS-2020-004-070 | Indian Canyons, CA | 0.054282869 | 0.098999473 | 0.126189458 | 0.215469541 |
| PEBS-2020-004-085 | Santa Rosa and San Jacinto Mtns, CA | 0.049302789 | 0.118910424 | 0.125958819 | 0.055957928 |
| TK259852 | Gunnison River Area, GMU S62, CO | 0.008715139 | 0.139286611 | NA | NA |
| TK259853 | Yellowjack Mtns, ID | 0.02564741 | 0.131740353 | NA | NA |
| TK259845 | Taos Pueblo, NM | 0.007096614 | 0.14645768 | 0.140416227 | -0.043025323 |
| TK259846 | Taos Pueblo, NM | 0.015189243 | 0.156637168 | 0.140437206 | -0.115353779 |
| TK259847 | Taos Pueblo, NM | 0.055278884 | 0.139826041 | 0.140481468 | 0.004665573 |
| TK259848 | Taos Pueblo, NM | 0.041583665 | 0.130033775 | 0.140341385 | 0.073446687 |
| TK259849 | Taos Pueblo, NM | 0.013819721 | 0.144678702 | 0.140074351 | -0.032870768 |
| TK259850 | Taos Pueblo, NM | 0.024153386 | 0.134345496 | 0.139690585 | 0.038263772 |