**Appendix 3-5. Downstream Dilution Tool Results**

***Introduction***

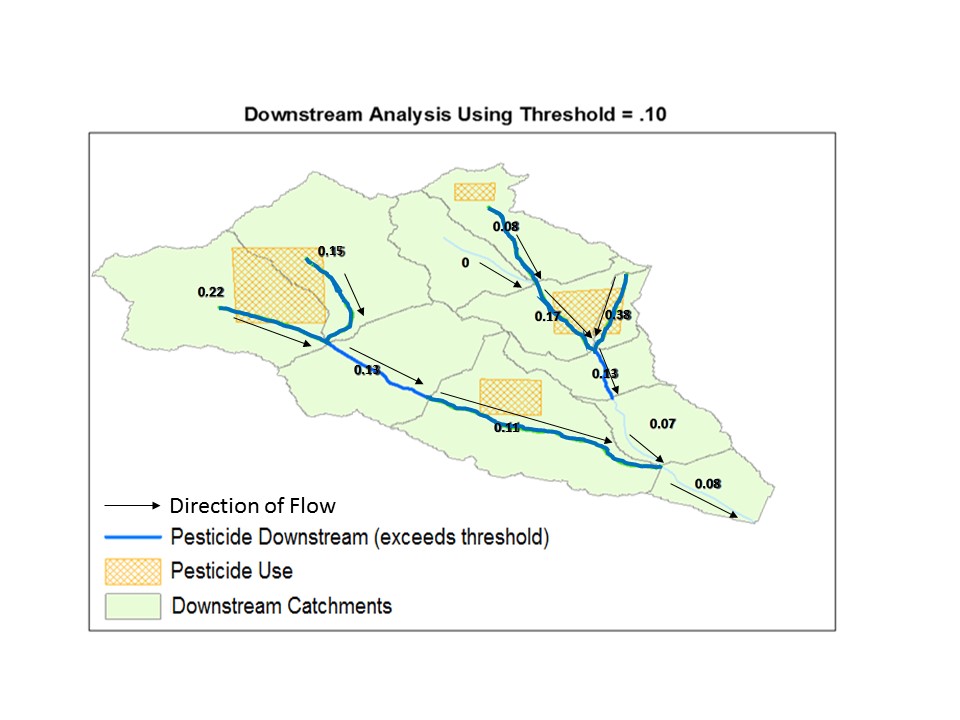
The Downstream Dilution Tool is a GIS-based algorithm designed to determine the downstream extent of exposure in flowing streams and rivers where direct/indirect effects and/or habitat modification may occur. In Step 1 of the ESA process, the aquatic exposure estimates derived from the downstream dilution tool and AgDRIFT are compared to toxicity thresholds to define the action area, not just the immediate area where pesticides are applied but all areas that may be affected directly or indirectly by the pesticide application. The downstream extent of the action area includes the area where predicted levels of exposure exceed the highest threshold to estimated exposure concentration (EEC) ratio (*i.e.*, the ratio of the highest EEC to lowest toxicity threshold). In Step 2 of the ESA process, the tool is used to assess the impact downstream from specified use sites, specific to the label, using taxa-specific thresholds in order to support the weight of evidence and effects determinations.

***Estimation of Pesticide Use Area and Dilution Factors***

The initial area of concern is derived from aggregated and modified sources of land cover information and is described in **Attachments 1-3** and **1-6**. In addition to the landcover-based pesticide use footprint, the initial area of concern includes the stream segments found within those land cover areas. Stream segments are obtained from the NHDPlus V2 hydrography dataset. For each stream reach in the hydrography network, the cumulative attribute and allocation tool (CA3T) included in the NHDPlus toolkit (<http://www.horizon-systems.com/NHDPlus/NHDPlusV2_tools.php>) is used to calculate per catchment cumulative percent use area (PUA) for each individual pesticide use. The PUA is the total area of the individual class divided by the total upstream contribution area. Pesticide exposures in the streams within the initial area of concern are conservatively assumed to be represented by the estimated environmental concentrations used in the downstream calculations.

The downstream dilution approach calculates the dilution factor (DF), or the maximum threshold/EEC ratio, expressed as a percentage, which needs to be achieved in order for EECs to fall below the threshold. For instance, if the EEC is 10 µg/L and the threshold is 1 µg/L, then the DF is 10%. The tool uses PUA factors as a surrogate for flow to assess dilution. While the PUA factor doesn’t account for all of the effects contributing to pesticide dilution in a stream (*e.g.*, downstream mixing and advection, degradation, dilution from incoming runoff water that does not contain pesticide), it provides an indication of the ratio of the amount of area in a watershed that could be treated with a pesticide, and hence contribute pesticide via runoff, to the total area of the watershed contributing to runoff. As such, if only 10% of the watershed can be treated with the pesticide, then, conservatively speaking, only 10% of the runoff to the stream in the watershed would contain pesticide and the remaining 90% of the runoff from the watershed would in effect dilute this pesticide contribution.

The dilution approach uses the NHDPlus dataset for the downstream analysis. After the stream segments in the initial area of concern are identified, the dilution model traverses downstream from each stream segment. At each downstream node, the PUA is compared to the DF. If the PUA for that segment exceeds the DF, the stream segment is included in the downstream extent. The tool continues traversing downstream until the PUA no longer exceeds the DF. For example, in **Figure B 3-5.1**, the DF would not be achieved until the downstream extent in the southwest corner watershed were reached.



**Figure B 3-5.1. Graphical depiction of downstream dilution**

***Inclusion of Species in Downstream Dilution Analyses***

An aquatic species is included in the downstream dilution analyses if it is assigned to a flowing waterbody (*i.e.*, Bins 2-4), so aquatic species exclusively assigned to static bins are not included in the analyses.  A terrestrial animal species is included in the downstream dilution analyses if it has a food item associated with flowing waterbodies.  Terrestrial animal species with food items assigned exclusively to static or estuarine/marine waterbodies are not included in the analyses. A terrestrial plant species is included in the downstream dilution analyses if it is assigned to a flowing waterbody, so plant species exclusively assigned to static bins are not included. For all taxa, if the flowing bin assignment is used exclusively as a surrogate for an estuarine/marine bin, it is not included in the analyses.

***Uncertainties in Analysis***

The geographic data sets used in this analysis are limited with respect to their accuracy and timeliness. The CDL represents the most current and comprehensive collection of national land use and land cover information for the United States. The current analysis considers CDL products from 2011-2014. Additional data sets were included to account for uses not clearly defined by the CDL, such as non-agricultural uses. These supplemental data and associated uncertainties are discussed in **Attachment 1-3**.

Hydrographic data are from the NHDPlus data set (http://www.horizon-systems.com/nhdplus/). NHDPlus contains the most current and accurate nationwide representation of hydrologic data. At a spatial scale of 1:100,000, the NHDPlus might omit the smallest streams and waterbodies. In addition, in some isolated instances, there are errors in the data including missing or disconnected stream segments and incorrect assignment of flow direction.

The relatively coarse spatial scale and general classification categories of these data sets preclude use of the data for highly localized study. Additionally, some labeled uses are not possible to map precisely due to the lack of appropriate spatial data in the data layers. These labeled uses and their associated uncertainties are discussed in **Attachment 1-3**.

***Use of Downstream Dilution Tool in Step 1***

In Step 1, EFED uses the highest 1-in-15-year EEC estimated from the Pesticide in Water Calculator (PWC, v 1.52) for all HUC 2s for Bin 2 for the rights-of-way scenario (a protective scenario utilizing a high curve number) and the lowest aquatic endpoint to estimate the DF. For each aquatic species, if the downstream dilution tool predicts concentrations that exceed the aquatic threshold for catchments that overlap the species range or designated critical habitat, a May Affect call is made. For diazinon, the highest 1-in-1- year daily average EEC is 1,450 µg/L (HUC 15) and the endpoint is 0.044 µg/L (aquatic invertebrates, mortality). Step 1 determinations are provided in **Table B 3-5.1**. It should be noted that impacts to certain aquatic species (*i.e.*, cave dwelling species, offshore marine species, etc.) are not being considered with regards to downstream dilution and are being addressed in separate parts of the Biological Evaluation.

**Table B 3-5.1. Step 1 determinations based on downstream dilution**

| Entity ID | Species Common Name | ESA Taxa | No Effect / May Affect | Percent of Stream Miles Affected |
| --- | --- | --- | --- | --- |
| Range | | | | |
| 2 | Grizzly bear | Aquatic-dependent Mammals | May Affect | 23% |
| 7 | West Indian Manatee | Freshwater Mammals | May Affect | 16% |
| 58 | Buena Vista Lake ornate Shrew | Aquatic-dependent Mammals | May Affect | 12% |
| 67 | Whooping crane | Aquatic-dependent Birds | May Affect | 39% |
| 88 | Short-tailed albatross | Aquatic-dependent Birds | May Affect | 36% |
| 103 | Light-footed clapper rail | Aquatic-dependent Birds | May Affect | 28% |
| 104 | Hawaiian stilt | Aquatic-dependent Birds | May Affect | 23% |
| 124 | Wood stork | Aquatic-dependent Birds | May Affect | 25% |
| 125 | Audubon's crested caracara | Aquatic-dependent Birds | May Affect | 21% |
| 130 | Piping Plover | Aquatic-dependent Birds | May Affect | 40% |
| 131 | Piping Plover | Aquatic-dependent Birds | May Affect | 27% |
| 132 | Western snowy plover | Aquatic-dependent Birds | May Affect | 32% |
| 134 | Least tern | Aquatic-dependent Birds | May Affect | 29% |
| 135 | Roseate tern | Aquatic-dependent Birds | May Affect | 17% |
| 136 | Roseate tern | Aquatic-dependent Birds | May Affect | 15% |
| 152 | San Francisco garter snake | Aquatic Reptiles | May Affect | 47% |
| 167 | Atlantic salt marsh snake | Marine Reptiles | May Affect | 23% |
| 168 | Alabama red-belly turtle | Aquatic Reptiles | May Affect | 56% |
| 169 | Flattened musk turtle | Aquatic Reptiles | May Affect | 35% |
| 171 | Ringed map turtle | Aquatic Reptiles | May Affect | 47% |
| 172 | Yellow-blotched map turtle | Aquatic Reptiles | May Affect | 58% |
| 173 | Eastern indigo snake | Aquatic Reptiles | May Affect | 31% |
| 176 | American crocodile | Marine Reptiles | May Affect | 12% |
| 180 | Copperbelly water snake | Aquatic Reptiles | May Affect | 80% |
| 182 | Bog (=Muhlenberg) turtle | Aquatic Reptiles | May Affect | 80% |
| 187 | Giant garter snake | Aquatic Reptiles | May Affect | 37% |
| 189 | Texas blind salamander | Aquatic Amphibians | May Affect | 35% |
| 194 | San Marcos salamander | Aquatic Amphibians | May Affect | 35% |
| 197 | Barton Springs salamander | Aquatic Amphibians | May Affect | 47% |
| 202 | Wyoming Toad | Aquatic Amphibians | May Affect | 3% |
| 204 | Arroyo (=arroyo southwestern) toad | Aquatic Amphibians | May Affect | 16% |
| 205 | California red-legged frog | Aquatic Amphibians | May Affect | 32% |
| 206 | Chiricahua leopard frog | Aquatic Amphibians | May Affect | 20% |
| 207 | Mountain yellow-legged frog | Aquatic Amphibians | May Affect | 4% |
| 209 | Humpback chub | Freshwater Fish | May Affect | 10% |
| 212 | Maryland darter | Freshwater Fish | May Affect | 93% |
| 213 | Big Bend gambusia | Freshwater Fish | May Affect | 8% |
| 214 | Clear Creek gambusia | Freshwater Fish | May Affect | 32% |
| 215 | Colorado pikeminnow (=squawfish) | Freshwater Fish | May Affect | 15% |
| 216 | Comanche Springs pupfish | Freshwater Fish | May Affect | 14% |
| 218 | Owens pupfish | Freshwater Fish | May Affect | 3% |
| 219 | Gila topminnow (incl. Yaqui) | Freshwater Fish | May Affect | 29% |
| 221 | Gila trout | Freshwater Fish | May Affect | 25% |
| 222 | Greenback Cutthroat trout | Freshwater Fish | May Affect | 7% |
| 224 | Okaloosa darter | Freshwater Fish | May Affect | 54% |
| 228 | Fountain darter | Freshwater Fish | May Affect | 45% |
| 229 | Watercress darter | Freshwater Fish | May Affect | 26% |
| 230 | Pecos gambusia | Freshwater Fish | May Affect | 24% |
| 232 | Unarmored threespine stickleback | Freshwater Fish | May Affect | 20% |
| 235 | Snail darter | Freshwater Fish | May Affect | 39% |
| 237 | Spotfin Chub | Freshwater Fish | May Affect | 40% |
| 238 | Leopard darter | Freshwater Fish | May Affect | 3% |
| 239 | Slackwater darter | Freshwater Fish | May Affect | 49% |
| 240 | Roanoke logperch | Freshwater Fish | May Affect | 41% |
| 241 | Pygmy Sculpin | Freshwater Fish | May Affect | 36% |
| 242 | Cape Fear shiner | Freshwater Fish | May Affect | 51% |
| 243 | Waccamaw silverside | Freshwater Fish | May Affect | 60% |
| 244 | Bayou darter | Freshwater Fish | May Affect | 42% |
| 245 | Scioto madtom | Freshwater Fish | May Affect | 62% |
| 246 | Slender chub | Freshwater Fish | May Affect | 30% |
| 247 | Yellowfin madtom | Freshwater Fish | May Affect | 27% |
| 248 | Little Kern golden trout | Freshwater Fish | May Affect | 9% |
| 249 | Bonytail chub | Freshwater Fish | May Affect | 10% |
| 250 | San Marcos gambusia | Freshwater Fish | May Affect | 43% |
| 251 | Leon Springs pupfish | Freshwater Fish | May Affect | 20% |
| 252 | Alabama sturgeon | Freshwater Fish | May Affect | 54% |
| 254 | Chihuahua chub | Freshwater Fish | May Affect | 37% |
| 257 | Niangua darter | Freshwater Fish | May Affect | 13% |
| 258 | Smoky madtom | Freshwater Fish | May Affect | 16% |
| 260 | Ozark cavefish | Freshwater Fish | May Affect | 20% |
| 262 | Owens Tui Chub | Freshwater Fish | May Affect | 3% |
| 267 | Foskett speckled dace | Freshwater Fish | May Affect | 2% |
| 269 | Cherokee darter | Freshwater Fish | May Affect | 36% |
| 270 | Neosho madtom | Freshwater Fish | May Affect | 16% |
| 271 | Pygmy madtom | Freshwater Fish | May Affect | 18% |
| 272 | Devils River minnow | Freshwater Fish | May Affect | 24% |
| 273 | Loach minnow | Freshwater Fish | May Affect | 23% |
| 276 | Beautiful shiner | Freshwater Fish | May Affect | 37% |
| 277 | Cahaba shiner | Freshwater Fish | May Affect | 42% |
| 278 | Palezone shiner | Freshwater Fish | May Affect | 27% |
| 279 | Pecos bluntnose shiner | Freshwater Fish | May Affect | 28% |
| 286 | Gulf sturgeon | Marine Fish | May Affect | 24% |
| 290 | Razorback sucker | Freshwater Fish | May Affect | 13% |
| 292 | Warner sucker | Freshwater Fish | May Affect | 3% |
| 293 | Amber darter | Freshwater Fish | May Affect | 35% |
| 294 | Conasauga logperch | Freshwater Fish | May Affect | 36% |
| 295 | Blackside dace | Freshwater Fish | May Affect | 21% |
| 296 | Spikedace | Freshwater Fish | May Affect | 23% |
| 297 | Boulder darter | Freshwater Fish | May Affect | 29% |
| 298 | Goldline darter | Freshwater Fish | May Affect | 41% |
| 299 | Arkansas River shiner | Freshwater Fish | May Affect | 27% |
| 300 | Blue shiner | Freshwater Fish | May Affect | 36% |
| 301 | Bull Trout | Freshwater Fish | May Affect | 25% |
| 303 | Pallid sturgeon | Freshwater Fish | May Affect | 2% |
| 305 | Delta smelt | Freshwater Fish | May Affect | 28% |
| 306 | Tidewater goby | Freshwater Fish | May Affect | 38% |
| 307 | Bluemask (=jewel) Darter | Freshwater Fish | May Affect | 41% |
| 308 | Duskytail darter | Freshwater Fish | May Affect | 21% |
| 309 | Rio Grande Silvery Minnow | Freshwater Fish | May Affect | 15% |
| 311 | Topeka shiner | Freshwater Fish | May Affect | 24% |
| 312 | Santa Ana sucker | Freshwater Fish | May Affect | 16% |
| 313 | Relict darter | Freshwater Fish | May Affect | 10% |
| 314 | White sturgeon | Freshwater Fish | May Affect | 27% |
| 315 | Etowah darter | Freshwater Fish | May Affect | 36% |
| 316 | Vermilion darter | Freshwater Fish | May Affect | 42% |
| 317 | Cumberland bean (pearlymussel) | Mollusks | May Affect | 26% |
| 318 | Purple bean | Mollusks | May Affect | 34% |
| 319 | Green blossom (pearlymussel) | Mollusks | May Affect | 39% |
| 320 | Tubercled blossom (pearlymussel) | Mollusks | May Affect | 28% |
| 321 | Turgid blossom (pearlymussel) | Mollusks | May Affect | 25% |
| 322 | Yellow blossom (pearlymussel) | Mollusks | May Affect | 20% |
| 323 | Purple Cat's paw (=Purple Cat's paw pearlymussel) | Mollusks | May Affect | 30% |
| 324 | White catspaw (pearlymussel) | Mollusks | May Affect | 65% |
| 325 | Higgins eye (pearlymussel) | Mollusks | May Affect | 45% |
| 326 | Alabama lampmussel | Mollusks | May Affect | 46% |
| 327 | Pale lilliput (pearlymussel) | Mollusks | May Affect | 35% |
| 328 | Winged Mapleleaf | Mollusks | May Affect | 10% |
| 329 | Appalachian monkeyface (pearlymussel) | Mollusks | May Affect | 20% |
| 330 | Cumberland monkeyface (pearlymussel) | Mollusks | May Affect | 30% |
| 331 | Pink mucket (pearlymussel) | Mollusks | May Affect | 22% |
| 332 | Birdwing pearlymussel | Mollusks | May Affect | 29% |
| 333 | Curtis pearlymussel | Mollusks | May Affect | 16% |
| 334 | Dromedary pearlymussel | Mollusks | May Affect | 33% |
| 335 | Littlewing pearlymussel | Mollusks | May Affect | 29% |
| 336 | White wartyback (pearlymussel) | Mollusks | May Affect | 32% |
| 337 | Finerayed pigtoe | Mollusks | May Affect | 33% |
| 338 | Rough pigtoe | Mollusks | May Affect | 34% |
| 339 | Shiny pigtoe | Mollusks | May Affect | 31% |
| 340 | Orangefoot pimpleback (pearlymussel) | Mollusks | May Affect | 34% |
| 341 | Ring pink (mussel) | Mollusks | May Affect | 33% |
| 342 | Fat pocketbook | Mollusks | May Affect | 49% |
| 343 | Ouachita rock pocketbook | Mollusks | May Affect | 9% |
| 344 | Rough rabbitsfoot | Mollusks | May Affect | 30% |
| 345 | Scaleshell mussel | Mollusks | May Affect | 13% |
| 346 | Tan riffleshell | Mollusks | May Affect | 26% |
| 347 | Black clubshell | Mollusks | May Affect | 42% |
| 348 | Southern combshell | Mollusks | May Affect | 38% |
| 349 | Flat pigtoe | Mollusks | May Affect | 49% |
| 350 | Heavy pigtoe | Mollusks | May Affect | 48% |
| 351 | Tar River spinymussel | Mollusks | May Affect | 80% |
| 352 | Clubshell | Mollusks | May Affect | 41% |
| 353 | Cumberlandian combshell | Mollusks | May Affect | 21% |
| 354 | Appalachian elktoe | Mollusks | May Affect | 62% |
| 355 | Cumberland elktoe | Mollusks | May Affect | 22% |
| 356 | Alabama (=inflated) heelsplitter | Mollusks | May Affect | 25% |
| 357 | Orangenacre mucket | Mollusks | May Affect | 42% |
| 358 | Oyster mussel | Mollusks | May Affect | 24% |
| 359 | Cracking pearlymussel | Mollusks | May Affect | 28% |
| 360 | Speckled pocketbook | Mollusks | May Affect | 12% |
| 361 | James spinymussel | Mollusks | May Affect | 33% |
| 362 | Stirrupshell | Mollusks | May Affect | 49% |
| 363 | Dwarf wedgemussel | Mollusks | May Affect | 57% |
| 364 | Louisiana pearlshell | Mollusks | May Affect | 34% |
| 365 | Southern acornshell | Mollusks | May Affect | 39% |
| 366 | Purple bankclimber (mussel) | Mollusks | May Affect | 74% |
| 367 | Upland combshell | Mollusks | May Affect | 39% |
| 368 | Fanshell | Mollusks | May Affect | 31% |
| 369 | Arkansas fatmucket | Mollusks | May Affect | 0% |
| 370 | Carolina heelsplitter | Mollusks | May Affect | 63% |
| 371 | Oval pigtoe | Mollusks | May Affect | 73% |
| 372 | Finelined pocketbook | Mollusks | May Affect | 39% |
| 373 | Shinyrayed pocketbook | Mollusks | May Affect | 74% |
| 374 | Northern riffleshell | Mollusks | May Affect | 49% |
| 375 | Fat threeridge (mussel) | Mollusks | May Affect | 71% |
| 376 | Cumberland pigtoe | Mollusks | May Affect | 36% |
| 377 | Ovate clubshell | Mollusks | May Affect | 38% |
| 378 | Southern clubshell | Mollusks | May Affect | 38% |
| 379 | Triangular Kidneyshell | Mollusks | May Affect | 35% |
| 380 | Alabama moccasinshell | Mollusks | May Affect | 39% |
| 381 | Coosa moccasinshell | Mollusks | May Affect | 33% |
| 382 | Dark pigtoe | Mollusks | May Affect | 27% |
| 383 | Southern pigtoe | Mollusks | May Affect | 35% |
| 384 | Gulf moccasinshell | Mollusks | May Affect | 73% |
| 385 | Ochlockonee moccasinshell | Mollusks | May Affect | 81% |
| 386 | Chipola slabshell | Mollusks | May Affect | 51% |
| 396 | Anthony's riversnail | Freshwater Invertebrates | May Affect | 37% |
| 398 | Bliss Rapids snail | Freshwater Invertebrates | May Affect | 52% |
| 399 | Snake River physa snail | Freshwater Invertebrates | May Affect | 62% |
| 402 | Armored snail | Freshwater Invertebrates | May Affect | 68% |
| 403 | Alamosa springsnail | Freshwater Invertebrates | May Affect | 10% |
| 404 | Bruneau Hot springsnail | Freshwater Invertebrates | May Affect | 22% |
| 406 | Tumbling Creek cavesnail | Freshwater Invertebrates | May Affect | 7% |
| 407 | Tulotoma snail | Freshwater Invertebrates | May Affect | 53% |
| 408 | Socorro springsnail | Freshwater Invertebrates | May Affect | 10% |
| 409 | Banbury Springs limpet | Freshwater Invertebrates | May Affect | 81% |
| 411 | Lacy elimia (snail) | Freshwater Invertebrates | May Affect | 33% |
| 412 | Cylindrical lioplax (snail) | Freshwater Invertebrates | May Affect | 40% |
| 413 | Flat pebblesnail | Freshwater Invertebrates | May Affect | 45% |
| 414 | Painted rocksnail | Freshwater Invertebrates | May Affect | 39% |
| 415 | Plicate rocksnail | Freshwater Invertebrates | May Affect | 45% |
| 416 | Round rocksnail | Freshwater Invertebrates | May Affect | 44% |
| 417 | Slender campeloma | Freshwater Invertebrates | May Affect | 59% |
| 435 | Delta green ground beetle | Freshwater Invertebrates | May Affect | 30% |
| 441 | Hungerford's crawling water Beetle | Freshwater Invertebrates | May Affect | 70% |
| 445 | Hine's emerald dragonfly | Freshwater Invertebrates | May Affect | 44% |
| 453 | Comal Springs riffle beetle | Freshwater Invertebrates | May Affect | 39% |
| 454 | Comal Springs dryopid beetle | Freshwater Invertebrates | May Affect | 39% |
| 475 | Hay's Spring amphipod | Freshwater Invertebrates | May Affect | 3% |
| 477 | Peck's cave amphipod | Freshwater Invertebrates | May Affect | 43% |
| 478 | Nashville crayfish | Freshwater Invertebrates | May Affect | 12% |
| 479 | Shasta crayfish | Freshwater Invertebrates | May Affect | 24% |
| 480 | Alabama cave shrimp | Freshwater Invertebrates | May Affect | 61% |
| 481 | California freshwater shrimp | Freshwater Invertebrates | May Affect | 62% |
| 482 | Kentucky cave shrimp | Freshwater Invertebrates | May Affect | 31% |
| 484 | Illinois cave amphipod | Freshwater Invertebrates | May Affect | 59% |
| 486 | Lee County cave isopod | Freshwater Invertebrates | May Affect | 32% |
| 487 | Squirrel Chimney Cave shrimp | Freshwater Invertebrates | May Affect | 74% |
| 489 | Cave crayfish | Freshwater Invertebrates | May Affect | 17% |
| 517 | Chinese Camp brodiaea | Aquatic Plants - vascular | May Affect | 44% |
| 580 | Colusa grass | Aquatic Plants - vascular | May Affect | 47% |
| 677 | Cumberland rosemary | Aquatic Plants - vascular | May Affect | 44% |
| 807 | Little Aguja (=Creek) Pondweed | Aquatic Plants - vascular | May Affect | 5% |
| 870 | Texas wild-rice | Aquatic Plants - vascular | May Affect | 49% |
| 1064 | Kral's water-plantain | Aquatic Plants - vascular | May Affect | 26% |
| 1199 | Louisiana quillwort | Aquatic Plants - vascular | May Affect | 51% |
| 1247 | Koster's springsnail | Freshwater Invertebrates | May Affect | 24% |
| 1261 | Noel's Amphipod | Freshwater Invertebrates | May Affect | 24% |
| 1358 | Magnificent ramshorn | Freshwater Invertebrates | May Affect | 49% |
| 1369 | Fuzzy pigtoe | Mollusks | May Affect | 70% |
| 1509 | Chum salmon | Freshwater Fish | May Affect | 23% |
| 1559 | Fluted kidneyshell | Mollusks | May Affect | 27% |
| 1680 | Alabama lampmussel | Mollusks | May Affect | 27% |
| 1740 | Mountain yellow-legged frog | Aquatic Amphibians | May Affect | 4% |
| 1783 | Northern Mexican gartersnake | Aquatic Reptiles | May Affect | 14% |
| 1849 | Meltwater lednian stonefly | Freshwater Invertebrates | May Affect | 22% |
| 1897 | Clubshell | Mollusks | May Affect | 27% |
| 1905 | Oyster mussel | Mollusks | May Affect | 27% |
| 1934 | Spotfin Chub | Freshwater Fish | May Affect | 8% |
| 2192 | Dromedary pearlymussel | Mollusks | May Affect | 27% |
| 2308 | Cracking pearlymussel | Mollusks | May Affect | 27% |
| 2316 | Yellow blossom (pearlymussel) | Mollusks | May Affect | 27% |
| 2448 | Steelhead | Freshwater Fish | May Affect | 10% |
| 2528 | Steelhead | Freshwater Fish | May Affect | 47% |
| 2561 | Interrupted (=Georgia) Rocksnail | Freshwater Invertebrates | May Affect | 28% |
| 2842 | Steelhead | Freshwater Fish | May Affect | 51% |
| 2917 | Texas Hornshell | Mollusks | May Affect | 22% |
| 2956 | Yellowfin madtom | Freshwater Fish | May Affect | 8% |
| 3226 | Finerayed pigtoe | Mollusks | May Affect | 27% |
| 3271 | Narrow-headed gartersnake | Aquatic Reptiles | May Affect | 28% |
| 3280 | Zuni bluehead Sucker | Freshwater Fish | May Affect | 19% |
| 3364 | Rough hornsnail | Freshwater Invertebrates | May Affect | 46% |
| 3398 | Chinook salmon | Freshwater Fish | May Affect | 16% |
| 3497 | Roundtail chub | Freshwater Fish | May Affect | 12% |
| 3525 | Rush Darter | Freshwater Fish | May Affect | 39% |
| 3596 | Sharpnose Shiner | Freshwater Fish | May Affect | 47% |
| 3645 | Rabbitsfoot | Mollusks | May Affect | 27% |
| 3654 | Steelhead | Freshwater Fish | May Affect | 48% |
| 3833 | Georgia pigtoe | Mollusks | May Affect | 32% |
| 3842 | Anthony's riversnail | Freshwater Invertebrates | May Affect | 27% |
| 3879 | Arkansas darter | Freshwater Fish | May Affect | 17% |
| 4042 | Choctaw bean | Mollusks | May Affect | 67% |
| 4086 | Neosho Mucket | Mollusks | May Affect | 20% |
| 4093 | green sturgeon | Marine Fish | May Affect | 39% |
| 4112 | Steelhead | Freshwater Fish | May Affect | 65% |
| 4162 | Chupadera springsnail | Freshwater Invertebrates | May Affect | 10% |
| 4210 | Altamaha Spinymussel | Mollusks | May Affect | 81% |
| 4248 | Grotto Sculpin | Freshwater Fish | May Affect | 17% |
| 4300 | Chinook salmon | Freshwater Fish | May Affect | 41% |
| 4330 | Shortnose sturgeon | Marine Fish | May Affect | 53% |
| 4411 | Alabama pearlshell | Mollusks | May Affect | 59% |
| 4431 | Pearl darter | Freshwater Fish | May Affect | 57% |
| 4437 | Diamond Tryonia | Freshwater Invertebrates | May Affect | 22% |
| 4479 | Phantom Springsnail | Freshwater Invertebrates | May Affect | 14% |
| 4490 | Spectaclecase (mussel) | Mollusks | May Affect | 31% |
| 4496 | Yellowfin madtom | Freshwater Fish | May Affect | 38% |
| 4679 | Whooping crane | Aquatic-dependent Birds | May Affect | 33% |
| 4799 | Chinook salmon | Freshwater Fish | May Affect | 35% |
| 4881 | Smalltooth sawfish | Marine Fish | May Affect | 18% |
| 4910 | Salt Creek Tiger beetle | Freshwater Invertebrates | May Affect | 54% |
| 4992 | Chinook salmon | Freshwater Fish | May Affect | 18% |
| 5065 | Black warrior (=Sipsey Fork) Waterdog | Aquatic Amphibians | May Affect | 35% |
| 5153 | Big Sandy crayfish | Freshwater Invertebrates | May Affect | 15% |
| 5180 | Chum salmon | Freshwater Fish | May Affect | 54% |
| 5265 | Coho salmon | Freshwater Fish | May Affect | 33% |
| 5281 | Snuffbox mussel | Mollusks | May Affect | 38% |
| 5362 | Gonzales tryonia | Freshwater Invertebrates | May Affect | 22% |
| 5434 | Georgetown Salamander | Aquatic Amphibians | May Affect | 56% |
| 5658 | Steelhead | Freshwater Fish | May Affect | 24% |
| 5714 | Kenk's amphipod | Freshwater Invertebrates | May Affect | 68% |
| 5715 | Cumberlandian combshell | Mollusks | May Affect | 27% |
| 5718 | Cumberland monkeyface (pearlymussel) | Mollusks | May Affect | 27% |
| 5719 | Cumberland darter | Freshwater Fish | May Affect | 17% |
| 5815 | Steelhead | Freshwater Fish | May Affect | 34% |
| 5833 | Shiny pigtoe | Mollusks | May Affect | 27% |
| 5856 | Turgid blossom (pearlymussel) | Mollusks | May Affect | 27% |
| 5981 | Smoky madtom | Freshwater Fish | May Affect | 8% |
| 6062 | Rayed Bean | Mollusks | May Affect | 58% |
| 6138 | Phantom Tryonia | Freshwater Invertebrates | May Affect | 14% |
| 6220 | Steelhead | Freshwater Fish | May Affect | 38% |
| 6223 | Tubercled blossom (pearlymussel) | Mollusks | May Affect | 27% |
| 6297 | Gila chub | Freshwater Fish | May Affect | 27% |
| 6346 | Austin blind Salamander | Aquatic Amphibians | May Affect | 47% |
| 6503 | Duskytail darter | Freshwater Fish | May Affect | 8% |
| 6534 | Tapered pigtoe | Mollusks | May Affect | 67% |
| 6557 | diamond Darter | Freshwater Fish | May Affect | 3% |
| 6578 | Coho salmon | Freshwater Fish | May Affect | 11% |
| 6596 | Pecos amphipod | Freshwater Invertebrates | May Affect | 22% |
| 6662 | Yellowcheek Darter | Freshwater Fish | May Affect | 3% |
| 6841 | Slabside Pearlymussel | Mollusks | May Affect | 31% |
| 6843 | Sockeye salmon | Freshwater Fish | May Affect | 48% |
| 6966 | Coho salmon | Freshwater Fish | May Affect | 41% |
| 7091 | Winged Mapleleaf | Mollusks | May Affect | 27% |
| 7150 | Chucky Madtom | Freshwater Fish | May Affect | 65% |
| 7177 | Narrow pigtoe | Mollusks | May Affect | 65% |
| 7332 | Spring pygmy sunfish | Freshwater Fish | May Affect | 69% |
| 7342 | Whooping crane | Aquatic-dependent Birds | May Affect | 79% |
| 7349 | Southern sandshell | Mollusks | May Affect | 67% |
| 7363 | Round Ebonyshell | Mollusks | May Affect | 66% |
| 7372 | Suwannee moccasinshell | Mollusks | May Affect | 91% |
| 7512 | Cumberland bean (pearlymussel) | Mollusks | May Affect | 27% |
| 7590 | Chinook salmon | Freshwater Fish | May Affect | 47% |
| 7610 | Salado Salamander | Aquatic Amphibians | May Affect | 61% |
| 7670 | Smalleye Shiner | Freshwater Fish | May Affect | 48% |
| 7800 | Eastern Massasauga (=rattlesnake) | Aquatic Reptiles | May Affect | 73% |
| 7816 | Sheepnose Mussel | Mollusks | May Affect | 40% |
| 7834 | Chinook salmon | Freshwater Fish | May Affect | 39% |
| 7847 | Ozark Hellbender | Aquatic Amphibians | May Affect | 6% |
| 7855 | Chinook salmon | Freshwater Fish | May Affect | 25% |
| 7949 | Southern kidneyshell | Mollusks | May Affect | 67% |
| 7989 | Steelhead | Freshwater Fish | May Affect | 16% |
| 8172 | Diminutive Amphipod | Freshwater Invertebrates | May Affect | 14% |
| 8231 | Jollyville Plateau Salamander | Aquatic Amphibians | May Affect | 51% |
| 8241 | Chinook salmon | Freshwater Fish | May Affect | 45% |
| 8278 | Sockeye salmon | Freshwater Fish | May Affect | 5% |
| 8349 | Purple Cat's paw (=Purple Cat's paw pearlymussel) | Mollusks | May Affect | 27% |
| 8356 | Birdwing pearlymussel | Mollusks | May Affect | 27% |
| 8434 | Black mudalia | Freshwater Invertebrates | May Affect | 51% |
| 8442 | Sicklefin redhorse | Freshwater Fish | May Affect | 53% |
| 8561 | Headwater chub | Freshwater Fish | May Affect | 15% |
| 8621 | Red knot | Aquatic-dependent Birds | May Affect | 36% |
| 8765 | Berry Cave salamander | Aquatic Amphibians | May Affect | 50% |
| 8921 | Boulder darter | Freshwater Fish | May Affect | 31% |
| 9021 | Coho salmon | Freshwater Fish | May Affect | 39% |
| 9061 | Spotfin Chub | Freshwater Fish | May Affect | 31% |
| 9220 | Laurel dace | Freshwater Fish | May Affect | 51% |
| 9432 | Steelhead | Freshwater Fish | May Affect | 35% |
| 9487 | Appalachian monkeyface (pearlymussel) | Mollusks | May Affect | 38% |
| 9488 | Birdwing pearlymussel | Mollusks | May Affect | 38% |
| 9489 | Cracking pearlymussel | Mollusks | May Affect | 38% |
| 9490 | Cumberland bean (pearlymussel) | Mollusks | May Affect | 38% |
| 9491 | Cumberlandian combshell | Mollusks | May Affect | 38% |
| 9492 | Cumberland monkeyface (pearlymussel) | Mollusks | May Affect | 38% |
| 9493 | Dromedary pearlymussel | Mollusks | May Affect | 38% |
| 9494 | Fanshell | Mollusks | May Affect | 38% |
| 9495 | Finerayed pigtoe | Mollusks | May Affect | 38% |
| 9496 | Orangefoot pimpleback (pearlymussel) | Mollusks | May Affect | 38% |
| 9497 | Oyster mussel | Mollusks | May Affect | 38% |
| 9498 | Ring pink (mussel) | Mollusks | May Affect | 38% |
| 9499 | Rough pigtoe | Mollusks | May Affect | 38% |
| 9500 | Shiny pigtoe | Mollusks | May Affect | 38% |
| 9501 | White wartyback (pearlymussel) | Mollusks | May Affect | 38% |
| 9502 | Duskytail darter | Freshwater Fish | May Affect | 38% |
| 9503 | Pygmy madtom | Freshwater Fish | May Affect | 38% |
| 9504 | Slender chub | Freshwater Fish | May Affect | 38% |
| 9505 | Spotfin Chub | Freshwater Fish | May Affect | 38% |
| 9506 | Yellowfin madtom | Freshwater Fish | May Affect | 38% |
| 9507 | Anthony's riversnail | Freshwater Invertebrates | May Affect | 38% |
| 9967 | Texas fawnsfoot | Mollusks | May Affect | 52% |
| 9968 | Texas pimpleback | Mollusks | May Affect | 48% |
| 9969 | Smooth pimpleback | Mollusks | May Affect | 52% |
| 10037 | Bull Trout | Freshwater Fish | May Affect | 39% |
| 10038 | Texas fatmucket | Mollusks | May Affect | 44% |
| 10039 | Golden orb | Mollusks | May Affect | 46% |
| 10052 | Rio Grande Silvery Minnow | Freshwater Fish | May Affect | 15% |
| 10060 | Kentucky arrow darter | Freshwater Fish | May Affect | 8% |
| 10077 | Atlantic salmon | Freshwater Fish | May Affect | 78% |
| 10124 | Whooping crane | Aquatic-dependent Birds | May Affect | 27% |
| 10130 | Arapahoe snowfly | Freshwater Invertebrates | May Affect | 16% |
| 10150 | Eulachon | Freshwater Fish | May Affect | 32% |
| 10297 | Atlantic sturgeon | Freshwater Fish | May Affect | 59% |
| 10298 | Atlantic sturgeon | Marine Fish | May Affect | 59% |
| 10299 | Atlantic sturgeon | Marine Fish | May Affect | 59% |
| 10300 | Atlantic sturgeon | Marine Fish | May Affect | 59% |
| 10301 | Atlantic sturgeon | Marine Fish | May Affect | 59% |
| 10485 | Green sea turtle | Aquatic Reptiles | May Affect | 7% |
| 10910 | Topeka shiner | Freshwater Fish | May Affect | 32% |
| 11175 | Green sea turtle | Aquatic Reptiles | May Affect | 7% |
| 11176 | Green sea turtle | Aquatic Reptiles | May Affect | 7% |
| 11192 | Green sea turtle | Aquatic Reptiles | May Affect | 6% |
| 11193 | Green sea turtle | Aquatic Reptiles | May Affect | 7% |
| 11201 | Guyandotte River crayfish | Freshwater Invertebrates | May Affect | 20% |
| 11262 | longfin smelt | Freshwater Fish | May Affect | 29% |
| Critical Habitat | | | | |
| 7 | West Indian Manatee | Freshwater Mammals | May Affect | 44% |
| 67 | Whooping crane | Aquatic-dependent Birds | May Affect | 29% |
| 130 | Piping Plover | Aquatic-dependent Birds | May Affect | 2% |
| 131 | Piping Plover | Aquatic-dependent Birds | May Affect | 4% |
| 132 | Western snowy plover | Aquatic-dependent Birds | May Affect | 34% |
| 176 | American crocodile | Marine Reptiles | May Affect | 5% |
| 194 | San Marcos salamander | Aquatic Amphibians | May Affect | 32% |
| 204 | Arroyo (=arroyo southwestern) toad | Aquatic Amphibians | May Affect | 13% |
| 205 | California red-legged frog | Aquatic Amphibians | May Affect | 42% |
| 206 | Chiricahua leopard frog | Aquatic Amphibians | May Affect | 35% |
| 207 | Mountain yellow-legged frog | Aquatic Amphibians | May Affect | 2% |
| 212 | Maryland darter | Freshwater Fish | May Affect | 90% |
| 228 | Fountain darter | Freshwater Fish | May Affect | 37% |
| 235 | Snail darter | Freshwater Fish | May Affect | 44% |
| 237 | Spotfin Chub | Freshwater Fish | May Affect | 51% |
| 238 | Leopard darter | Freshwater Fish | May Affect | 2% |
| 239 | Slackwater darter | Freshwater Fish | May Affect | 46% |
| 242 | Cape Fear shiner | Freshwater Fish | May Affect | 39% |
| 243 | Waccamaw silverside | Freshwater Fish | May Affect | 46% |
| 246 | Slender chub | Freshwater Fish | May Affect | 28% |
| 247 | Yellowfin madtom | Freshwater Fish | May Affect | 26% |
| 248 | Little Kern golden trout | Freshwater Fish | May Affect | 8% |
| 250 | San Marcos gambusia | Freshwater Fish | May Affect | 37% |
| 251 | Leon Springs pupfish | Freshwater Fish | May Affect | 100% |
| 252 | Alabama sturgeon | Freshwater Fish | May Affect | 52% |
| 257 | Niangua darter | Freshwater Fish | May Affect | 11% |
| 258 | Smoky madtom | Freshwater Fish | May Affect | 7% |
| 262 | Owens Tui Chub | Freshwater Fish | May Affect | 5% |
| 272 | Devils River minnow | Freshwater Fish | May Affect | 32% |
| 279 | Pecos bluntnose shiner | Freshwater Fish | May Affect | 34% |
| 286 | Gulf sturgeon | Marine Fish | May Affect | 44% |
| 292 | Warner sucker | Freshwater Fish | May Affect | 1% |
| 293 | Amber darter | Freshwater Fish | May Affect | 32% |
| 294 | Conasauga logperch | Freshwater Fish | May Affect | 27% |
| 299 | Arkansas River shiner | Freshwater Fish | May Affect | 31% |
| 301 | Bull Trout | Freshwater Fish | May Affect | 21% |
| 305 | Delta smelt | Freshwater Fish | May Affect | 24% |
| 306 | Tidewater goby | Freshwater Fish | May Affect | 43% |
| 309 | Rio Grande Silvery Minnow | Freshwater Fish | May Affect | 19% |
| 311 | Topeka shiner | Freshwater Fish | May Affect | 48% |
| 312 | Santa Ana sucker | Freshwater Fish | May Affect | 13% |
| 314 | White sturgeon | Freshwater Fish | May Affect | 33% |
| 316 | Vermilion darter | Freshwater Fish | May Affect | 34% |
| 318 | Purple bean | Mollusks | May Affect | 34% |
| 344 | Rough rabbitsfoot | Mollusks | May Affect | 29% |
| 353 | Cumberlandian combshell | Mollusks | May Affect | 33% |
| 354 | Appalachian elktoe | Mollusks | May Affect | 65% |
| 355 | Cumberland elktoe | Mollusks | May Affect | 33% |
| 357 | Orangenacre mucket | Mollusks | May Affect | 39% |
| 358 | Oyster mussel | Mollusks | May Affect | 33% |
| 365 | Southern acornshell | Mollusks | May Affect | 36% |
| 366 | Purple bankclimber (mussel) | Mollusks | May Affect | 83% |
| 367 | Upland combshell | Mollusks | May Affect | 37% |
| 370 | Carolina heelsplitter | Mollusks | May Affect | 59% |
| 371 | Oval pigtoe | Mollusks | May Affect | 84% |
| 372 | Finelined pocketbook | Mollusks | May Affect | 40% |
| 373 | Shinyrayed pocketbook | Mollusks | May Affect | 89% |
| 375 | Fat threeridge (mussel) | Mollusks | May Affect | 75% |
| 377 | Ovate clubshell | Mollusks | May Affect | 38% |
| 378 | Southern clubshell | Mollusks | May Affect | 42% |
| 379 | Triangular Kidneyshell | Mollusks | May Affect | 34% |
| 380 | Alabama moccasinshell | Mollusks | May Affect | 36% |
| 381 | Coosa moccasinshell | Mollusks | May Affect | 33% |
| 382 | Dark pigtoe | Mollusks | May Affect | 29% |
| 383 | Southern pigtoe | Mollusks | May Affect | 33% |
| 384 | Gulf moccasinshell | Mollusks | May Affect | 88% |
| 385 | Ochlockonee moccasinshell | Mollusks | May Affect | 89% |
| 386 | Chipola slabshell | Mollusks | May Affect | 75% |
| 445 | Hine's emerald dragonfly | Freshwater Invertebrates | May Affect | 44% |
| 453 | Comal Springs riffle beetle | Freshwater Invertebrates | May Affect | 92% |
| 454 | Comal Springs dryopid beetle | Freshwater Invertebrates | May Affect | 100% |
| 477 | Peck's cave amphipod | Freshwater Invertebrates | May Affect | 100% |
| 482 | Kentucky cave shrimp | Freshwater Invertebrates | May Affect | 23% |
| 580 | Colusa grass | Aquatic Plants - vascular | May Affect | 54% |
| 870 | Texas wild-rice | Aquatic Plants - vascular | May Affect | 56% |
| 1247 | Koster's springsnail | Freshwater Invertebrates | May Affect | 49% |
| 1261 | Noel's Amphipod | Freshwater Invertebrates | May Affect | 31% |
| 1369 | Fuzzy pigtoe | Mollusks | May Affect | 74% |
| 1509 | Chum salmon | Freshwater Fish | May Affect | 40% |
| 1559 | Fluted kidneyshell | Mollusks | May Affect | 30% |
| 1740 | Mountain yellow-legged frog | Aquatic Amphibians | May Affect | 2% |
| 1934 | Spotfin Chub | Freshwater Fish | May Affect | 51% |
| 2448 | Steelhead | Freshwater Fish | May Affect | 12% |
| 2514 | Chinook salmon | Freshwater Fish | May Affect | 61% |
| 2528 | Steelhead | Freshwater Fish | May Affect | 67% |
| 2561 | Interrupted (=Georgia) Rocksnail | Freshwater Invertebrates | May Affect | 36% |
| 2842 | Steelhead | Freshwater Fish | May Affect | 62% |
| 3364 | Rough hornsnail | Freshwater Invertebrates | May Affect | 55% |
| 3525 | Rush Darter | Freshwater Fish | May Affect | 38% |
| 3596 | Sharpnose Shiner | Freshwater Fish | May Affect | 47% |
| 3645 | Rabbitsfoot | Mollusks | May Affect | 29% |
| 3654 | Steelhead | Freshwater Fish | May Affect | 69% |
| 3833 | Georgia pigtoe | Mollusks | May Affect | 28% |
| 4042 | Choctaw bean | Mollusks | May Affect | 74% |
| 4086 | Neosho Mucket | Mollusks | May Affect | 24% |
| 4093 | green sturgeon | Marine Fish | May Affect | 32% |
| 4112 | Steelhead | Freshwater Fish | May Affect | 69% |
| 4210 | Altamaha Spinymussel | Mollusks | May Affect | 88% |
| 4274 | Steelhead | Freshwater Fish | May Affect | 61% |
| 4411 | Alabama pearlshell | Mollusks | May Affect | 55% |
| 4437 | Diamond Tryonia | Freshwater Invertebrates | May Affect | 100% |
| 4799 | Chinook salmon | Freshwater Fish | May Affect | 50% |
| 4881 | Smalltooth sawfish | Marine Fish | May Affect | 26% |
| 4910 | Salt Creek Tiger beetle | Freshwater Invertebrates | May Affect | 77% |
| 4992 | Chinook salmon | Freshwater Fish | May Affect | 19% |
| 5180 | Chum salmon | Freshwater Fish | May Affect | 62% |
| 5265 | Coho salmon | Freshwater Fish | May Affect | 42% |
| 5362 | Gonzales tryonia | Freshwater Invertebrates | May Affect | 100% |
| 5434 | Georgetown Salamander | Aquatic Amphibians | May Affect | 66% |
| 5658 | Steelhead | Freshwater Fish | May Affect | 45% |
| 5719 | Cumberland darter | Freshwater Fish | May Affect | 16% |
| 5815 | Steelhead | Freshwater Fish | May Affect | 37% |
| 5981 | Smoky madtom | Freshwater Fish | May Affect | 7% |
| 6220 | Steelhead | Freshwater Fish | May Affect | 47% |
| 6346 | Austin blind Salamander | Aquatic Amphibians | May Affect | 100% |
| 6534 | Tapered pigtoe | Mollusks | May Affect | 78% |
| 6557 | diamond Darter | Freshwater Fish | May Affect | 25% |
| 6596 | Pecos amphipod | Freshwater Invertebrates | May Affect | 100% |
| 6662 | Yellowcheek Darter | Freshwater Fish | May Affect | 2% |
| 6841 | Slabside Pearlymussel | Mollusks | May Affect | 31% |
| 6843 | Sockeye salmon | Freshwater Fish | May Affect | 65% |
| 7150 | Chucky Madtom | Freshwater Fish | May Affect | 63% |
| 7177 | Narrow pigtoe | Mollusks | May Affect | 71% |
| 7349 | Southern sandshell | Mollusks | May Affect | 74% |
| 7363 | Round Ebonyshell | Mollusks | May Affect | 65% |
| 7590 | Chinook salmon | Freshwater Fish | May Affect | 63% |
| 7670 | Smalleye Shiner | Freshwater Fish | May Affect | 47% |
| 7834 | Chinook salmon | Freshwater Fish | May Affect | 58% |
| 7949 | Southern kidneyshell | Mollusks | May Affect | 74% |
| 7989 | Steelhead | Freshwater Fish | May Affect | 22% |
| 8231 | Jollyville Plateau Salamander | Aquatic Amphibians | May Affect | 26% |
| 8241 | Chinook salmon | Freshwater Fish | May Affect | 47% |
| 9061 | Spotfin Chub | Freshwater Fish | May Affect | 51% |
| 9220 | Laurel dace | Freshwater Fish | May Affect | 55% |
| 9504 | Slender chub | Freshwater Fish | May Affect | 28% |
| 10077 | Atlantic salmon | Freshwater Fish | May Affect | 84% |
| 10150 | Eulachon | Freshwater Fish | May Affect | 72% |

**Use of Downstream Dilution Tool in Step 2**

For each HUC 2, EFED used the highest 1-in-15-year EEC for Bin 2 for each individual use. For multiple pesticide uses that are covered by a particular CDL, the highest EEC for the data layer is used. Multiple effects thresholds are used in the analysis and include the lowest threshold for mortality, growth, reproduction, behavior, and sensory effects for each freshwater vertebrate and invertebrate taxa.

For each species and each HUC 2, the downstream dilution tool estimates the percent of stream miles in the species habitat where the downstream dilution concentration is above a particular threshold and the use that has the greatest impact. Step 2 determinations are provided for the species range and critical habitats in **Table B 3-5.2** and **B 3-5.3**, respectively.

**Table B 3-5.4** provides a listing of species where concentrations from downstream dilution were below all relevant species-specific thresholds. In most cases, the species were not located in streams that were hydrologically connected to an upstream segment where a diazinon use (*e.g.*, orchard, vegetable, or nursery) could occur nor were they in streams that could potentially receive direct or spray drift runoff from a pesticide treated field (*i.e.*, no vegetable, orchard, or nursery uses in watershed).

A text delimited file, which lists the species and stream reaches in the habitat affected, has been attached to this appendix for use in Step 3 of the ESA process. It should be noted that impacts to certain aquatic species (*i.e.*, cave dwelling species, offshore marine species, etc.) are not being considered with regards to downstream dilution and are being addressed in separate parts of the Biological Evaluation.

**Table B 3-5.2. Step 2 Downstream Dilution Determinations Based on Species Range1**

| ESA Taxa | HUC 2 | Entity ID | Species Common Name | Multiple HUCs? | Stream Miles Affected in HUC (miles) | Species Range, All HUCs (miles) | Threshold Value2 (µg/L) | Use Impacting Species |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Aquatic-dependent Mammals | 10 | 2 | Grizzly bear | Yes | 9,988 | 144,211 | 0.228 | vegetables |
| Aquatic-dependent Mammals | 14 | 2 | Grizzly bear | Yes | 2 | 144,211 | 0.228 | vegetables |
| Aquatic-dependent Mammals | 16 | 2 | Grizzly bear | Yes | 0 | 144,211 | 0.47 | vegetables |
| Aquatic-dependent Mammals | 17 | 2 | Grizzly bear | Yes | 12,843 | 144,211 | 0.228 | orchards |
| Freshwater Mammals | 3 | 7 | West Indian Manatee | Yes | 9,515 | 113,054 | 0.228 | orchards |
| Marine Mammals | 3 | 7 | West Indian Manatee | Yes | 9,515 | 113,054 | 0.228 | orchards |
| Freshwater Mammals | 8 | 7 | West Indian Manatee | Yes | 735 | 113,054 | 0.228 | nurseries |
| Marine Mammals | 8 | 7 | West Indian Manatee | Yes | 735 | 113,054 | 0.228 | nurseries |
| Freshwater Mammals | 12 | 7 | West Indian Manatee | Yes | 3,591 | 113,054 | 0.228 | vegetables |
| Marine Mammals | 12 | 7 | West Indian Manatee | Yes | 3,591 | 113,054 | 0.228 | vegetables |
| Freshwater Mammals | 13 | 7 | West Indian Manatee | Yes | 110 | 113,054 | 0.47 | orchards |
| Marine Mammals | 13 | 7 | West Indian Manatee | Yes | 110 | 113,054 | 0.47 | orchards |
| Aquatic-dependent Mammals | 18 | 58 | Buena Vista Lake ornate Shrew | No | 242 | 2,815 | 0.228 | orchards |
| Marine Mammals | 18 | 58 | Buena Vista Lake ornate Shrew | No | 242 | 2,815 | 0.228 | orchards |
| Aquatic-dependent Birds | 4 | 67 | Whooping crane | Yes | 40 | 481,672 | 0.47 | vegetables |
| Aquatic-dependent Birds | 7 | 67 | Whooping crane | Yes | 212 | 481,672 | 0.228 | vegetables |
| Aquatic-dependent Birds | 9 | 67 | Whooping crane | Yes | 16,850 | 481,672 | 0.228 | vegetables |
| Aquatic-dependent Birds | 10 | 67 | Whooping crane | Yes | 90,242 | 481,672 | 0.228 | vegetables |
| Aquatic-dependent Birds | 11 | 67 | Whooping crane | Yes | 19,849 | 481,672 | 0.228 | vegetables |
| Aquatic-dependent Birds | 12 | 67 | Whooping crane | Yes | 27,123 | 481,672 | 0.228 | orchards |
| Aquatic-dependent Birds | 17 | 88 | Short-tailed albatross | Yes | 487 | 3,778 | 0.228 | vegetables |
| Aquatic-dependent Birds | 18 | 88 | Short-tailed albatross | Yes | 627 | 3,778 | 0.228 | orchards |
| Aquatic-dependent Birds | 18 | 103 | Light-footed clapper rail | Yes | 211 | 1,596 | 0.228 | nurseries |
| Aquatic-dependent Birds | 2 | 104 | Hawaiian stilt | Yes | 503 | 837,481 | 0.228 | vegetables |
| Aquatic-dependent Birds | 3 | 104 | Hawaiian stilt | Yes | 7,568 | 837,481 | 0.228 | orchards |
| Aquatic-dependent Birds | 8 | 104 | Hawaiian stilt | Yes | 768 | 837,481 | 0.228 | orchards |
| Aquatic-dependent Birds | 10 | 104 | Hawaiian stilt | Yes | 6,193 | 837,481 | 0.228 | vegetables |
| Aquatic-dependent Birds | 11 | 104 | Hawaiian stilt | Yes | 13,776 | 837,481 | 0.228 | vegetables |
| Aquatic-dependent Birds | 12 | 104 | Hawaiian stilt | Yes | 33,981 | 837,481 | 0.228 | orchards |
| Aquatic-dependent Birds | 13 | 104 | Hawaiian stilt | Yes | 10,752 | 837,481 | 0.228 | orchards |
| Aquatic-dependent Birds | 14 | 104 | Hawaiian stilt | Yes | 617 | 837,481 | 0.228 | vegetables |
| Aquatic-dependent Birds | 15 | 104 | Hawaiian stilt | Yes | 9,784 | 837,481 | 0.228 | orchards |
| Aquatic-dependent Birds | 16 | 104 | Hawaiian stilt | Yes | 4,551 | 837,481 | 0.228 | vegetables |
| Aquatic-dependent Birds | 17 | 104 | Hawaiian stilt | Yes | 18,827 | 837,481 | 0.228 | vegetables |
| Aquatic-dependent Birds | 18 | 104 | Hawaiian stilt | Yes | 26,500 | 837,481 | 0.228 | orchards |
| Aquatic-dependent Birds | 3 | 124 | Wood stork | Yes | 29,196 | 144,842 | 0.228 | orchards |
| Aquatic-dependent Birds | 3 | 125 | Audubon's crested caracara | Yes | 7,579 | 37,354 | 0.228 | orchards |
| Aquatic-dependent Birds | 4 | 130 | Piping Plover | Yes | 1,211 | 3,568 | 0.228 | vegetables |
| Aquatic-dependent Birds | 7 | 130 | Piping Plover | Yes | 6 | 3,568 | 0.47 | nurseries |
| Aquatic-dependent Birds | 1 | 131 | Piping Plover | Yes | 149 | 400,494 | 0.228 | vegetables |
| Aquatic-dependent Birds | 2 | 131 | Piping Plover | Yes | 381 | 400,494 | 0.228 | vegetables |
| Aquatic-dependent Birds | 3 | 131 | Piping Plover | Yes | 5,860 | 400,494 | 0.228 | orchards |
| Aquatic-dependent Birds | 7 | 131 | Piping Plover | Yes | 7 | 400,494 | 0.47 | vegetables |
| Aquatic-dependent Birds | 8 | 131 | Piping Plover | Yes | 739 | 400,494 | 0.228 | orchards |
| Aquatic-dependent Birds | 9 | 131 | Piping Plover | Yes | 4,134 | 400,494 | 0.47 | vegetables |
| Aquatic-dependent Birds | 10 | 131 | Piping Plover | Yes | 54,143 | 400,494 | 0.228 | vegetables |
| Aquatic-dependent Birds | 11 | 131 | Piping Plover | Yes | 16,660 | 400,494 | 0.228 | vegetables |
| Aquatic-dependent Birds | 12 | 131 | Piping Plover | Yes | 2,820 | 400,494 | 0.228 | vegetables |
| Aquatic-dependent Birds | 13 | 131 | Piping Plover | Yes | 2,708 | 400,494 | 0.228 | orchards |
| Aquatic-dependent Birds | 17 | 132 | Western snowy plover | Yes | 1,189 | 17,766 | 0.228 | vegetables |
| Aquatic-dependent Birds | 18 | 132 | Western snowy plover | Yes | 3,172 | 17,766 | 0.228 | orchards |
| Aquatic-dependent Birds | 5 | 134 | Least tern | Yes | 630 | 400,723 | 0.228 | nurseries |
| Aquatic-dependent Birds | 6 | 134 | Least tern | Yes | 454 | 400,723 | 0.228 | vegetables |
| Aquatic-dependent Birds | 7 | 134 | Least tern | Yes | 3,649 | 400,723 | 0.228 | vegetables |
| Aquatic-dependent Birds | 8 | 134 | Least tern | Yes | 2,573 | 400,723 | 0.228 | orchards |
| Aquatic-dependent Birds | 9 | 134 | Least tern | Yes | 116 | 400,723 | 0.47 | vegetables |
| Aquatic-dependent Birds | 10 | 134 | Least tern | Yes | 53,935 | 400,723 | 0.228 | vegetables |
| Aquatic-dependent Birds | 11 | 134 | Least tern | Yes | 16,155 | 400,723 | 0.228 | vegetables |
| Aquatic-dependent Birds | 12 | 134 | Least tern | Yes | 2,481 | 400,723 | 0.228 | orchards |
| Aquatic-dependent Birds | 13 | 134 | Least tern | Yes | 5,714 | 400,723 | 0.228 | orchards |
| Aquatic-dependent Birds | 14 | 134 | Least tern | Yes | 57 | 400,723 | 0.228 | vegetables |
| Aquatic-dependent Birds | 15 | 134 | Least tern | Yes | 661 | 400,723 | 0.228 | vegetables |
| Aquatic-dependent Birds | 1 | 135 | Roseate tern | Yes | 394 | 6,140 | 0.228 | vegetables |
| Aquatic-dependent Birds | 2 | 135 | Roseate tern | Yes | 277 | 6,140 | 0.228 | vegetables |
| Aquatic-dependent Birds | 3 | 135 | Roseate tern | Yes | 232 | 6,140 | 0.228 | vegetables |
| Aquatic-dependent Birds | 3 | 136 | Roseate tern | Yes | 193 | 1,910 | 0.228 | orchards |
| Aquatic Reptiles | 18 | 152 | San Francisco garter snake | No | 596 | 1,623 | 0.228 | orchards |
| Marine Reptiles | 3 | 167 | Atlantic salt marsh snake | No | 1,063 | 4,652 | 0.228 | orchards |
| Aquatic Reptiles | 3 | 168 | Alabama red-belly turtle | Yes | 1,343 | 3,916 | 0.228 | vegetables |
| Aquatic Reptiles | 3 | 169 | Flattened musk turtle | Yes | 1,747 | 7,011 | 0.228 | vegetables |
| Aquatic Reptiles | 3 | 171 | Ringed map turtle | Yes | 819 | 17,202 | 0.228 | vegetables |
| Aquatic Reptiles | 8 | 171 | Ringed map turtle | Yes | 4,237 | 17,202 | 0.228 | vegetables |
| Aquatic Reptiles | 3 | 172 | Yellow-blotched map turtle | No | 5,053 | 9,995 | 0.228 | vegetables |
| Aquatic Reptiles | 3 | 173 | Eastern indigo snake | No | 26,739 | 94,611 | 0.228 | orchards |
| Aquatic Reptiles | 3 | 176 | American crocodile | No | 1,681 | 15,174 | 0.228 | orchards |
| Marine Reptiles | 3 | 176 | American crocodile | No | 1,681 | 15,174 | 0.228 | orchards |
| Aquatic Reptiles | 4 | 180 | Copperbelly water snake | Yes | 3,912 | 5,980 | 0.228 | vegetables |
| Aquatic Reptiles | 5 | 180 | Copperbelly water snake | Yes | 131 | 5,980 | 0.228 | orchards |
| Aquatic Reptiles | 7 | 180 | Copperbelly water snake | Yes | 142 | 5,980 | 0.47 | vegetables |
| Aquatic Reptiles | 1 | 182 | Bog (=Muhlenberg) turtle | Yes | 688 | 20,131 | 0.228 | vegetables |
| Aquatic Reptiles | 2 | 182 | Bog (=Muhlenberg) turtle | Yes | 12,231 | 20,131 | 0.228 | vegetables |
| Aquatic Reptiles | 4 | 182 | Bog (=Muhlenberg) turtle | Yes | 1,060 | 20,131 | 0.228 | vegetables |
| Aquatic Reptiles | 18 | 187 | Giant garter snake | Yes | 12,126 | 34,635 | 0.228 | orchards |
| Aquatic Amphibians | 12 | 189 | Texas blind salamander | No | 102 | 622 | 0.228 | orchards |
| Aquatic Amphibians | 12 | 194 | San Marcos salamander | No | 102 | 622 | 0.228 | orchards |
| Aquatic Amphibians | 12 | 197 | Barton Springs salamander | No | 286 | 1,142 | 0.228 | nurseries |
| Aquatic Amphibians | 10 | 202 | Wyoming Toad | No | 31 | 1,274 | 0.228 | nurseries |
| Aquatic Amphibians | 18 | 204 | Arroyo (=arroyo southwestern) toad | Yes | 759 | 8,054 | 0.228 | orchards |
| Aquatic Amphibians | 18 | 205 | California red-legged frog | Yes | 28,698 | 101,248 | 0.228 | orchards |
| Aquatic Amphibians | 13 | 206 | Chiricahua leopard frog | Yes | 2,974 | 66,483 | 0.228 | vegetables |
| Aquatic Amphibians | 15 | 206 | Chiricahua leopard frog | Yes | 4,538 | 66,483 | 0.228 | orchards |
| Aquatic Amphibians | 18 | 207 | Mountain yellow-legged frog | Yes | 13 | 906 | 0.47 | orchards |
| Freshwater Fish | 10 | 209 | Humpback chub | Yes | 24 | 103,449 | 0.228 | vegetables |
| Freshwater Fish | 11 | 209 | Humpback chub | Yes | 4 | 103,449 | 0.47 | vegetables |
| Freshwater Fish | 13 | 209 | Humpback chub | Yes | 451 | 103,449 | 0.228 | vegetables |
| Freshwater Fish | 14 | 209 | Humpback chub | Yes | 4,697 | 103,449 | 0.228 | vegetables |
| Freshwater Fish | 15 | 209 | Humpback chub | Yes | 5 | 103,449 | 0.47 | vegetables |
| Freshwater Fish | 16 | 209 | Humpback chub | Yes | 56 | 103,449 | 0.228 | orchards |
| Freshwater Fish | 2 | 212 | Maryland darter | No | 146 | 168 | 0.228 | vegetables |
| Freshwater Fish | 13 | 213 | Big Bend gambusia | Yes | 376 | 6,179 | 0.228 | orchards |
| Freshwater Fish | 12 | 214 | Clear Creek gambusia | No | 383 | 1,319 | 0.228 | orchards |
| Freshwater Fish | 10 | 215 | Colorado pikeminnow (=squawfish) | Yes | 9 | 80,832 | 0.228 | vegetables |
| Freshwater Fish | 13 | 215 | Colorado pikeminnow (=squawfish) | Yes | 569 | 80,832 | 0.228 | vegetables |
| Freshwater Fish | 14 | 215 | Colorado pikeminnow (=squawfish) | Yes | 7,645 | 80,832 | 0.228 | vegetables |
| Freshwater Fish | 16 | 215 | Colorado pikeminnow (=squawfish) | Yes | 51 | 80,832 | 0.228 | orchards |
| Freshwater Fish | 13 | 216 | Comanche Springs pupfish | Yes | 491 | 4,338 | 0.228 | orchards |
| Freshwater Fish | 18 | 218 | Owens pupfish | Yes | 58 | 3,308 | 0.47 | orchards |
| Freshwater Fish | 13 | 219 | Gila topminnow (incl. Yaqui) | Yes | 909 | 23,606 | 0.228 | vegetables |
| Freshwater Fish | 15 | 219 | Gila topminnow (incl. Yaqui) | Yes | 3,325 | 23,606 | 0.228 | orchards |
| Freshwater Fish | 13 | 221 | Gila trout | Yes | 1,998 | 28,589 | 0.228 | vegetables |
| Freshwater Fish | 15 | 221 | Gila trout | Yes | 1,986 | 28,589 | 0.228 | vegetables |
| Freshwater Fish | 10 | 222 | Greenback Cutthroat trout | Yes | 743 | 17,788 | 0.228 | vegetables |
| Freshwater Fish | 14 | 222 | Greenback Cutthroat trout | Yes | 97 | 17,788 | 0.228 | orchards |
| Freshwater Fish | 3 | 224 | Okaloosa darter | No | 1,573 | 3,309 | 0.228 | orchards |
| Freshwater Fish | 12 | 228 | Fountain darter | No | 479 | 1,585 | 0.228 | orchards |
| Freshwater Fish | 3 | 229 | Watercress darter | No | 36 | 414 | 0.228 | vegetables |
| Freshwater Fish | 13 | 230 | Pecos gambusia | Yes | 3,157 | 17,946 | 0.228 | orchards |
| Freshwater Fish | 18 | 232 | Unarmored threespine stickleback | Yes | 502 | 2,681 | 0.228 | orchards |
| Freshwater Fish | 6 | 235 | Snail darter | Yes | 2,596 | 9,404 | 0.228 | vegetables |
| Freshwater Fish | 3 | 237 | Spotfin Chub | Yes | 100 | 13,002 | 0.228 | vegetables |
| Freshwater Fish | 5 | 237 | Spotfin Chub | Yes | 5 | 13,002 | 0.228 | orchards |
| Freshwater Fish | 6 | 237 | Spotfin Chub | Yes | 3,540 | 13,002 | 0.228 | vegetables |
| Freshwater Fish | 11 | 238 | Leopard darter | Yes | 34 | 2,736 | 0.228 | orchards |
| Freshwater Fish | 6 | 239 | Slackwater darter | No | 1,056 | 2,639 | 0.228 | vegetables |
| Freshwater Fish | 2 | 240 | Roanoke logperch | Yes | 55 | 10,619 | 0.228 | vegetables |
| Freshwater Fish | 3 | 240 | Roanoke logperch | Yes | 2,570 | 10,619 | 0.228 | vegetables |
| Freshwater Fish | 5 | 240 | Roanoke logperch | Yes | 135 | 10,619 | 0.228 | orchards |
| Freshwater Fish | 3 | 241 | Pygmy Sculpin | No | 21 | 100 | 0.228 | vegetables |
| Freshwater Fish | 3 | 242 | Cape Fear shiner | No | 1,236 | 3,197 | 0.228 | vegetables |
| Freshwater Fish | 3 | 243 | Waccamaw silverside | No | 249 | 446 | 0.228 | vegetables |
| Freshwater Fish | 8 | 244 | Bayou darter | Yes | 678 | 2,170 | 0.228 | orchards |
| Freshwater Fish | 5 | 245 | Scioto madtom | No | 82 | 392 | 0.228 | orchards |
| Freshwater Fish | 5 | 246 | Slender chub | Yes | 9 | 7,246 | 0.228 | orchards |
| Freshwater Fish | 6 | 246 | Slender chub | Yes | 840 | 7,246 | 0.228 | vegetables |
| Freshwater Fish | 6 | 247 | Yellowfin madtom | Yes | 759 | 7,286 | 0.228 | vegetables |
| Freshwater Fish | 18 | 248 | Little Kern golden trout | No | 115 | 1,424 | 0.228 | orchards |
| Freshwater Fish | 10 | 249 | Bonytail chub | Yes | 24 | 104,271 | 0.228 | vegetables |
| Freshwater Fish | 11 | 249 | Bonytail chub | Yes | 4 | 104,271 | 0.47 | vegetables |
| Freshwater Fish | 13 | 249 | Bonytail chub | Yes | 451 | 104,271 | 0.228 | vegetables |
| Freshwater Fish | 14 | 249 | Bonytail chub | Yes | 4,797 | 104,271 | 0.228 | vegetables |
| Freshwater Fish | 15 | 249 | Bonytail chub | Yes | 547 | 104,271 | 0.228 | orchards |
| Freshwater Fish | 16 | 249 | Bonytail chub | Yes | 56 | 104,271 | 0.228 | orchards |
| Freshwater Fish | 12 | 250 | San Marcos gambusia | No | 236 | 925 | 0.228 | orchards |
| Freshwater Fish | 13 | 251 | Leon Springs pupfish | Yes | 486 | 3,230 | 0.228 | orchards |
| Freshwater Fish | 3 | 252 | Alabama sturgeon | No | 7,243 | 17,098 | 0.228 | orchards |
| Freshwater Fish | 13 | 254 | Chihuahua chub | Yes | 921 | 8,775 | 0.228 | vegetables |
| Freshwater Fish | 15 | 254 | Chihuahua chub | Yes | 1,140 | 8,775 | 0.228 | vegetables |
| Freshwater Fish | 7 | 257 | Niangua darter | Yes | 8 | 14,409 | 0.228 | nurseries |
| Freshwater Fish | 10 | 257 | Niangua darter | Yes | 759 | 14,409 | 0.228 | vegetables |
| Freshwater Fish | 11 | 257 | Niangua darter | Yes | 60 | 14,409 | 0.228 | nurseries |
| Freshwater Fish | 6 | 258 | Smoky madtom | No | 154 | 1,355 | 0.228 | vegetables |
| Freshwater Fish | 10 | 260 | Ozark cavefish | Yes | 181 | 15,067 | 0.228 | nurseries |
| Freshwater Fish | 11 | 260 | Ozark cavefish | Yes | 1,065 | 15,067 | 0.228 | vegetables |
| Freshwater Fish | 18 | 262 | Owens Tui Chub | Yes | 62 | 3,431 | 0.228 | orchards |
| Freshwater Fish | 17 | 267 | Foskett speckled dace | Yes | 3 | 3,041 | 0.228 | vegetables |
| Freshwater Fish | 18 | 267 | Foskett speckled dace | Yes | 39 | 3,041 | 0.47 | vegetables |
| Freshwater Fish | 3 | 269 | Cherokee darter | Yes | 255 | 2,004 | 0.228 | orchards |
| Freshwater Fish | 10 | 270 | Neosho madtom | Yes | 56 | 18,027 | 0.228 | orchards |
| Freshwater Fish | 11 | 270 | Neosho madtom | Yes | 1,448 | 18,027 | 0.228 | orchards |
| Freshwater Fish | 6 | 271 | Pygmy madtom | Yes | 143 | 2,383 | 0.228 | vegetables |
| Freshwater Fish | 12 | 272 | Devils River minnow | Yes | 110 | 4,129 | 0.228 | vegetables |
| Freshwater Fish | 13 | 272 | Devils River minnow | Yes | 540 | 4,129 | 0.228 | orchards |
| Freshwater Fish | 13 | 273 | Loach minnow | Yes | 1,184 | 31,885 | 0.228 | vegetables |
| Freshwater Fish | 15 | 273 | Loach minnow | Yes | 2,596 | 31,885 | 0.228 | vegetables |
| Freshwater Fish | 13 | 276 | Beautiful shiner | Yes | 1,431 | 10,951 | 0.228 | vegetables |
| Freshwater Fish | 15 | 276 | Beautiful shiner | Yes | 1,178 | 10,951 | 0.228 | vegetables |
| Freshwater Fish | 3 | 277 | Cahaba shiner | Yes | 853 | 3,300 | 0.228 | vegetables |
| Freshwater Fish | 5 | 278 | Palezone shiner | Yes | 29 | 2,275 | 0.228 | orchards |
| Freshwater Fish | 6 | 278 | Palezone shiner | Yes | 217 | 2,275 | 0.228 | vegetables |
| Freshwater Fish | 13 | 279 | Pecos bluntnose shiner | Yes | 2,372 | 12,349 | 0.228 | orchards |
| Freshwater Fish | 3 | 286 | Gulf sturgeon | Yes | 1,003 | 7,500 | 0.228 | orchards |
| Marine Fish | 3 | 286 | Gulf sturgeon | Yes | 1,003 | 7,500 | 0.228 | orchards |
| Freshwater Fish | 8 | 286 | Gulf sturgeon | Yes | 132 | 7,500 | 0.228 | nurseries |
| Marine Fish | 8 | 286 | Gulf sturgeon | Yes | 132 | 7,500 | 0.228 | nurseries |
| Freshwater Fish | 10 | 290 | Razorback sucker | Yes | 28 | 157,301 | 0.228 | vegetables |
| Freshwater Fish | 11 | 290 | Razorback sucker | Yes | 4 | 157,301 | 0.47 | vegetables |
| Freshwater Fish | 13 | 290 | Razorback sucker | Yes | 669 | 157,301 | 0.228 | vegetables |
| Freshwater Fish | 14 | 290 | Razorback sucker | Yes | 9,701 | 157,301 | 0.228 | vegetables |
| Freshwater Fish | 15 | 290 | Razorback sucker | Yes | 2,127 | 157,301 | 0.228 | orchards |
| Freshwater Fish | 16 | 290 | Razorback sucker | Yes | 56 | 157,301 | 0.228 | orchards |
| Freshwater Fish | 17 | 292 | Warner sucker | Yes | 48 | 3,813 | 0.228 | vegetables |
| Freshwater Fish | 18 | 292 | Warner sucker | Yes | 13 | 3,813 | 0.47 | vegetables |
| Freshwater Fish | 3 | 293 | Amber darter | Yes | 247 | 1,876 | 0.228 | orchards |
| Freshwater Fish | 3 | 294 | Conasauga logperch | Yes | 102 | 667 | 0.228 | vegetables |
| Freshwater Fish | 5 | 295 | Blackside dace | Yes | 205 | 11,477 | 0.228 | nurseries |
| Freshwater Fish | 6 | 295 | Blackside dace | Yes | 257 | 11,477 | 0.228 | vegetables |
| Freshwater Fish | 13 | 296 | Spikedace | Yes | 1,184 | 32,725 | 0.228 | vegetables |
| Freshwater Fish | 15 | 296 | Spikedace | Yes | 2,599 | 32,725 | 0.228 | vegetables |
| Freshwater Fish | 6 | 297 | Boulder darter | No | 617 | 2,819 | 0.228 | vegetables |
| Freshwater Fish | 3 | 298 | Goldline darter | Yes | 716 | 3,570 | 0.228 | orchards |
| Freshwater Fish | 6 | 298 | Goldline darter | Yes | 61 | 3,570 | 0.228 | vegetables |
| Freshwater Fish | 11 | 299 | Arkansas River shiner | Yes | 4,822 | 25,968 | 0.228 | vegetables |
| Freshwater Fish | 13 | 299 | Arkansas River shiner | Yes | 19 | 25,968 | 0.47 | orchards |
| Freshwater Fish | 3 | 300 | Blue shiner | Yes | 472 | 2,488 | 0.228 | vegetables |
| Freshwater Fish | 17 | 301 | Bull Trout | Yes | 26,388 | 162,941 | 0.228 | vegetables |
| Marine Fish | 17 | 301 | Bull Trout | Yes | 26,388 | 162,941 | 0.228 | vegetables |
| Freshwater Fish | 18 | 301 | Bull Trout | Yes | 56 | 162,941 | 0.228 | vegetables |
| Marine Fish | 18 | 301 | Bull Trout | Yes | 56 | 162,941 | 0.228 | vegetables |
| Freshwater Fish | 5 | 303 | Pallid sturgeon | Yes | 56 | 198,737 | 0.228 | orchards |
| Freshwater Fish | 7 | 303 | Pallid sturgeon | Yes | 587 | 198,737 | 0.228 | vegetables |
| Freshwater Fish | 9 | 303 | Pallid sturgeon | Yes | 248 | 198,737 | 0.47 | vegetables |
| Freshwater Fish | 11 | 303 | Pallid sturgeon | Yes | 1,395 | 198,737 | 0.228 | orchards |
| Freshwater Fish | 12 | 303 | Pallid sturgeon | Yes | 56 | 198,737 | 0.47 | vegetables |
| Freshwater Fish | 18 | 305 | Delta smelt | Yes | 2,343 | 8,767 | 0.228 | orchards |
| Marine Fish | 18 | 305 | Delta smelt | Yes | 2,343 | 8,767 | 0.228 | orchards |
| Freshwater Fish | 17 | 306 | Tidewater goby | Yes | 13 | 14,731 | 0.47 | vegetables |
| Marine Fish | 17 | 306 | Tidewater goby | Yes | 13 | 14,731 | 0.47 | vegetables |
| Freshwater Fish | 18 | 306 | Tidewater goby | Yes | 4,792 | 14,731 | 0.228 | orchards |
| Marine Fish | 18 | 306 | Tidewater goby | Yes | 4,792 | 14,731 | 0.228 | orchards |
| Freshwater Fish | 5 | 307 | Bluemask (=jewel) Darter | Yes | 155 | 1,443 | 0.228 | nurseries |
| Freshwater Fish | 5 | 308 | Duskytail darter | Yes | 13 | 2,288 | 0.228 | orchards |
| Freshwater Fish | 6 | 308 | Duskytail darter | Yes | 62 | 2,288 | 0.228 | orchards |
| Freshwater Fish | 13 | 309 | Rio Grande Silvery Minnow | Yes | 1,504 | 15,240 | 0.228 | orchards |
| Freshwater Fish | 7 | 311 | Topeka shiner | Yes | 6,017 | 86,346 | 0.228 | vegetables |
| Freshwater Fish | 10 | 311 | Topeka shiner | Yes | 10,120 | 86,346 | 0.228 | vegetables |
| Freshwater Fish | 11 | 311 | Topeka shiner | Yes | 134 | 86,346 | 0.228 | nurseries |
| Freshwater Fish | 18 | 312 | Santa Ana sucker | Yes | 256 | 2,924 | 0.228 | nurseries |
| Freshwater Fish | 6 | 313 | Relict darter | Yes | 261 | 2,816 | 0.228 | vegetables |
| Freshwater Fish | 17 | 314 | White sturgeon | Yes | 122 | 519 | 0.228 | vegetables |
| Freshwater Fish | 3 | 315 | Etowah darter | Yes | 176 | 1,341 | 0.228 | orchards |
| Freshwater Fish | 3 | 316 | Vermilion darter | No | 81 | 340 | 0.228 | vegetables |
| Freshwater Fish | 5 | 317 | Cumberland bean (pearlymussel) | Yes | 281 | 13,726 | 0.228 | nurseries |
| Mollusks | 5 | 317 | Cumberland bean (pearlymussel) | Yes | 614 | 13,726 | 0.044 | nurseries |
| Freshwater Fish | 6 | 317 | Cumberland bean (pearlymussel) | Yes | 1,429 | 13,726 | 0.228 | vegetables |
| Mollusks | 6 | 317 | Cumberland bean (pearlymussel) | Yes | 1,776 | 13,726 | 0.044 | vegetables |
| Mollusks | 5 | 318 | Purple bean | Yes | 13 | 6,027 | 0.044 | orchards |
| Mollusks | 6 | 318 | Purple bean | Yes | 1,545 | 6,027 | 0.044 | vegetables |
| Freshwater Fish | 6 | 319 | Green blossom (pearlymussel) | Yes | 1,560 | 6,259 | 0.228 | vegetables |
| Mollusks | 6 | 319 | Green blossom (pearlymussel) | Yes | 2,051 | 6,259 | 0.044 | vegetables |
| Freshwater Fish | 5 | 320 | Tubercled blossom (pearlymussel) | Yes | 94 | 4,880 | 0.228 | nurseries |
| Mollusks | 5 | 320 | Tubercled blossom (pearlymussel) | Yes | 171 | 4,880 | 0.044 | nurseries |
| Freshwater Fish | 6 | 320 | Tubercled blossom (pearlymussel) | Yes | 674 | 4,880 | 0.228 | vegetables |
| Mollusks | 6 | 320 | Tubercled blossom (pearlymussel) | Yes | 914 | 4,880 | 0.044 | vegetables |
| Freshwater Fish | 6 | 321 | Turgid blossom (pearlymussel) | Yes | 1,036 | 6,274 | 0.228 | vegetables |
| Mollusks | 6 | 321 | Turgid blossom (pearlymussel) | Yes | 1,362 | 6,274 | 0.044 | vegetables |
| Freshwater Fish | 11 | 321 | Turgid blossom (pearlymussel) | Yes | 28 | 6,274 | 0.47 | orchards |
| Mollusks | 11 | 321 | Turgid blossom (pearlymussel) | Yes | 36 | 6,274 | 0.044 | orchards |
| Freshwater Fish | 5 | 322 | Yellow blossom (pearlymussel) | Yes | 160 | 3,120 | 0.228 | nurseries |
| Mollusks | 5 | 322 | Yellow blossom (pearlymussel) | Yes | 310 | 3,120 | 0.044 | nurseries |
| Mollusks | 5 | 323 | Purple Cat's paw (=Purple Cat's paw pearlymussel) | No | 1,145 | 10,362 | 0.044 | nurseries |
| Freshwater Fish | 4 | 324 | White catspaw (pearlymussel) | Yes | 583 | 1,103 | 0.228 | vegetables |
| Mollusks | 4 | 324 | White catspaw (pearlymussel) | Yes | 684 | 1,103 | 0.044 | vegetables |
| Mollusks | 7 | 325 | Higgins eye (pearlymussel) | Yes | 3,014 | 8,260 | 0.044 | vegetables |
| Mollusks | 10 | 325 | Higgins eye (pearlymussel) | Yes | 347 | 8,260 | 0.044 | vegetables |
| Freshwater Fish | 6 | 326 | Alabama lampmussel | Yes | 793 | 2,475 | 0.228 | vegetables |
| Mollusks | 6 | 326 | Alabama lampmussel | Yes | 1,007 | 2,475 | 0.044 | vegetables |
| Freshwater Fish | 6 | 327 | Pale lilliput (pearlymussel) | Yes | 1,022 | 4,230 | 0.228 | vegetables |
| Mollusks | 6 | 327 | Pale lilliput (pearlymussel) | Yes | 1,356 | 4,230 | 0.044 | vegetables |
| Freshwater Fish | 6 | 328 | Winged Mapleleaf | Yes | 59 | 25,532 | 0.47 | vegetables |
| Mollusks | 6 | 328 | Winged Mapleleaf | Yes | 148 | 25,532 | 0.044 | vegetables |
| Freshwater Fish | 7 | 328 | Winged Mapleleaf | Yes | 240 | 25,532 | 0.228 | vegetables |
| Mollusks | 7 | 328 | Winged Mapleleaf | Yes | 244 | 25,532 | 0.044 | vegetables |
| Freshwater Fish | 8 | 328 | Winged Mapleleaf | Yes | 339 | 25,532 | 0.228 | vegetables |
| Mollusks | 8 | 328 | Winged Mapleleaf | Yes | 439 | 25,532 | 0.044 | vegetables |
| Freshwater Fish | 11 | 328 | Winged Mapleleaf | Yes | 944 | 25,532 | 0.228 | orchards |
| Mollusks | 11 | 328 | Winged Mapleleaf | Yes | 1,126 | 25,532 | 0.044 | orchards |
| Freshwater Fish | 5 | 329 | Appalachian monkeyface (pearlymussel) | Yes | 39 | 4,178 | 0.228 | nurseries |
| Mollusks | 5 | 329 | Appalachian monkeyface (pearlymussel) | Yes | 75 | 4,178 | 0.044 | nurseries |
| Freshwater Fish | 6 | 329 | Appalachian monkeyface (pearlymussel) | Yes | 142 | 4,178 | 0.228 | orchards |
| Mollusks | 6 | 329 | Appalachian monkeyface (pearlymussel) | Yes | 391 | 4,178 | 0.044 | vegetables |
| Freshwater Fish | 6 | 330 | Cumberland monkeyface (pearlymussel) | Yes | 1,939 | 12,066 | 0.228 | vegetables |
| Mollusks | 6 | 330 | Cumberland monkeyface (pearlymussel) | Yes | 2,862 | 12,066 | 0.044 | vegetables |
| Mollusks | 5 | 331 | Pink mucket (pearlymussel) | Yes | 3,213 | 86,838 | 0.044 | nurseries |
| Mollusks | 6 | 331 | Pink mucket (pearlymussel) | Yes | 5,209 | 86,838 | 0.044 | vegetables |
| Mollusks | 7 | 331 | Pink mucket (pearlymussel) | Yes | 257 | 86,838 | 0.044 | nurseries |
| Mollusks | 8 | 331 | Pink mucket (pearlymussel) | Yes | 2,093 | 86,838 | 0.044 | vegetables |
| Mollusks | 10 | 331 | Pink mucket (pearlymussel) | Yes | 215 | 86,838 | 0.044 | nurseries |
| Mollusks | 11 | 331 | Pink mucket (pearlymussel) | Yes | 1,811 | 86,838 | 0.044 | orchards |
| Mollusks | 5 | 332 | Birdwing pearlymussel | Yes | 1 | 8,740 | 0.044 | orchards |
| Freshwater Fish | 6 | 332 | Birdwing pearlymussel | Yes | 1,169 | 8,740 | 0.228 | vegetables |
| Mollusks | 6 | 332 | Birdwing pearlymussel | Yes | 1,988 | 8,740 | 0.044 | vegetables |
| Mollusks | 7 | 333 | Curtis pearlymussel | Yes | 15 | 6,094 | 0.044 | orchards |
| Mollusks | 11 | 333 | Curtis pearlymussel | Yes | 743 | 6,094 | 0.044 | vegetables |
| Mollusks | 5 | 334 | Dromedary pearlymussel | Yes | 220 | 10,928 | 0.044 | nurseries |
| Mollusks | 6 | 334 | Dromedary pearlymussel | Yes | 2,601 | 10,928 | 0.044 | vegetables |
| Mollusks | 3 | 335 | Littlewing pearlymussel | Yes | 103 | 19,521 | 0.044 | vegetables |
| Mollusks | 5 | 335 | Littlewing pearlymussel | Yes | 786 | 19,521 | 0.044 | nurseries |
| Mollusks | 6 | 335 | Littlewing pearlymussel | Yes | 2,747 | 19,521 | 0.044 | vegetables |
| Freshwater Fish | 5 | 336 | White wartyback (pearlymussel) | Yes | 248 | 6,362 | 0.228 | nurseries |
| Mollusks | 5 | 336 | White wartyback (pearlymussel) | Yes | 345 | 6,362 | 0.044 | nurseries |
| Freshwater Fish | 6 | 336 | White wartyback (pearlymussel) | Yes | 597 | 6,362 | 0.228 | vegetables |
| Mollusks | 6 | 336 | White wartyback (pearlymussel) | Yes | 933 | 6,362 | 0.044 | vegetables |
| Mollusks | 5 | 337 | Finerayed pigtoe | Yes | 15 | 12,042 | 0.044 | orchards |
| Mollusks | 6 | 337 | Finerayed pigtoe | Yes | 3,221 | 12,042 | 0.044 | vegetables |
| Freshwater Fish | 5 | 338 | Rough pigtoe | Yes | 1,439 | 31,781 | 0.228 | nurseries |
| Mollusks | 5 | 338 | Rough pigtoe | Yes | 2,578 | 31,781 | 0.044 | nurseries |
| Freshwater Fish | 6 | 338 | Rough pigtoe | Yes | 2,335 | 31,781 | 0.228 | vegetables |
| Mollusks | 6 | 338 | Rough pigtoe | Yes | 3,115 | 31,781 | 0.044 | vegetables |
| Freshwater Fish | 7 | 338 | Rough pigtoe | Yes | 0 | 31,781 | 0.228 | orchards |
| Mollusks | 7 | 338 | Rough pigtoe | Yes | 0 | 31,781 | 0.044 | orchards |
| Mollusks | 5 | 339 | Shiny pigtoe | Yes | 37 | 10,495 | 0.044 | orchards |
| Mollusks | 6 | 339 | Shiny pigtoe | Yes | 2,381 | 10,495 | 0.044 | vegetables |
| Freshwater Fish | 5 | 340 | Orangefoot pimpleback (pearlymussel) | Yes | 1,518 | 33,428 | 0.228 | nurseries |
| Mollusks | 5 | 340 | Orangefoot pimpleback (pearlymussel) | Yes | 2,595 | 33,428 | 0.044 | nurseries |
| Freshwater Fish | 6 | 340 | Orangefoot pimpleback (pearlymussel) | Yes | 2,278 | 33,428 | 0.228 | vegetables |
| Mollusks | 6 | 340 | Orangefoot pimpleback (pearlymussel) | Yes | 3,017 | 33,428 | 0.044 | vegetables |
| Freshwater Fish | 7 | 340 | Orangefoot pimpleback (pearlymussel) | Yes | 306 | 33,428 | 0.228 | vegetables |
| Mollusks | 7 | 340 | Orangefoot pimpleback (pearlymussel) | Yes | 318 | 33,428 | 0.044 | vegetables |
| Freshwater Fish | 5 | 341 | Ring pink (mussel) | Yes | 1,767 | 32,306 | 0.228 | nurseries |
| Mollusks | 5 | 341 | Ring pink (mussel) | Yes | 2,936 | 32,306 | 0.044 | nurseries |
| Freshwater Fish | 6 | 341 | Ring pink (mussel) | Yes | 1,714 | 32,306 | 0.228 | vegetables |
| Mollusks | 6 | 341 | Ring pink (mussel) | Yes | 2,286 | 32,306 | 0.044 | vegetables |
| Freshwater Fish | 7 | 341 | Ring pink (mussel) | Yes | 0 | 32,306 | 0.228 | orchards |
| Mollusks | 7 | 341 | Ring pink (mussel) | Yes | 0 | 32,306 | 0.044 | orchards |
| Freshwater Fish | 8 | 342 | Fat pocketbook | No | 613 | 1,491 | 0.228 | orchards |
| Mollusks | 8 | 342 | Fat pocketbook | No | 661 | 1,491 | 0.044 | orchards |
| Mollusks | 8 | 343 | Ouachita rock pocketbook | Yes | 456 | 17,067 | 0.044 | vegetables |
| Mollusks | 11 | 343 | Ouachita rock pocketbook | Yes | 779 | 17,067 | 0.044 | orchards |
| Freshwater Fish | 5 | 344 | Rough rabbitsfoot | Yes | 1 | 6,795 | 0.47 | nurseries |
| Mollusks | 5 | 344 | Rough rabbitsfoot | Yes | 4 | 6,795 | 0.044 | orchards |
| Freshwater Fish | 6 | 344 | Rough rabbitsfoot | Yes | 831 | 6,795 | 0.228 | vegetables |
| Mollusks | 6 | 344 | Rough rabbitsfoot | Yes | 1,479 | 6,795 | 0.044 | vegetables |
| Freshwater Fish | 5 | 345 | Scaleshell mussel | Yes | 330 | 38,333 | 0.228 | nurseries |
| Mollusks | 5 | 345 | Scaleshell mussel | Yes | 704 | 38,333 | 0.044 | nurseries |
| Freshwater Fish | 7 | 345 | Scaleshell mussel | Yes | 129 | 38,333 | 0.228 | nurseries |
| Mollusks | 7 | 345 | Scaleshell mussel | Yes | 293 | 38,333 | 0.044 | nurseries |
| Freshwater Fish | 8 | 345 | Scaleshell mussel | Yes | 0 | 38,333 | 0.47 | vegetables |
| Mollusks | 8 | 345 | Scaleshell mussel | Yes | 0 | 38,333 | 0.044 | vegetables |
| Freshwater Fish | 10 | 345 | Scaleshell mussel | Yes | 739 | 38,333 | 0.228 | vegetables |
| Mollusks | 10 | 345 | Scaleshell mussel | Yes | 1,084 | 38,333 | 0.044 | vegetables |
| Freshwater Fish | 11 | 345 | Scaleshell mussel | Yes | 1,686 | 38,333 | 0.228 | orchards |
| Mollusks | 11 | 345 | Scaleshell mussel | Yes | 2,121 | 38,333 | 0.044 | orchards |
| Mollusks | 5 | 346 | Tan riffleshell | Yes | 330 | 9,280 | 0.044 | nurseries |
| Mollusks | 6 | 346 | Tan riffleshell | Yes | 1,141 | 9,280 | 0.044 | vegetables |
| Freshwater Fish | 3 | 347 | Black clubshell | Yes | 1,003 | 4,303 | 0.228 | vegetables |
| Mollusks | 3 | 347 | Black clubshell | Yes | 1,313 | 4,303 | 0.044 | vegetables |
| Freshwater Fish | 3 | 348 | Southern combshell | Yes | 1,026 | 4,971 | 0.228 | vegetables |
| Mollusks | 3 | 348 | Southern combshell | Yes | 1,389 | 4,971 | 0.044 | vegetables |
| Freshwater Fish | 3 | 349 | Flat pigtoe | No | 1,114 | 3,123 | 0.228 | orchards |
| Mollusks | 3 | 349 | Flat pigtoe | No | 1,410 | 3,123 | 0.044 | orchards |
| Freshwater Fish | 3 | 350 | Heavy pigtoe | Yes | 2,570 | 7,926 | 0.228 | orchards |
| Mollusks | 3 | 350 | Heavy pigtoe | Yes | 3,072 | 7,926 | 0.044 | orchards |
| Freshwater Fish | 3 | 351 | Tar River spinymussel | No | 2,779 | 3,554 | 0.228 | vegetables |
| Mollusks | 3 | 351 | Tar River spinymussel | No | 2,822 | 3,554 | 0.044 | vegetables |
| Mollusks | 4 | 352 | Clubshell | Yes | 2,657 | 53,054 | 0.044 | vegetables |
| Mollusks | 5 | 352 | Clubshell | Yes | 5,345 | 53,054 | 0.044 | orchards |
| Mollusks | 6 | 352 | Clubshell | Yes | 993 | 53,054 | 0.044 | vegetables |
| Mollusks | 7 | 352 | Clubshell | Yes | 506 | 53,054 | 0.044 | vegetables |
| Marine Fish | 5 | 353 | Cumberlandian combshell | Yes | 335 | 15,705 | 0.228 | nurseries |
| Mollusks | 5 | 353 | Cumberlandian combshell | Yes | 704 | 15,705 | 0.044 | nurseries |
| Marine Fish | 6 | 353 | Cumberlandian combshell | Yes | 728 | 15,705 | 0.228 | vegetables |
| Mollusks | 6 | 353 | Cumberlandian combshell | Yes | 1,387 | 15,705 | 0.044 | vegetables |
| Freshwater Fish | 3 | 354 | Appalachian elktoe | Yes | 438 | 7,644 | 0.228 | orchards |
| Mollusks | 3 | 354 | Appalachian elktoe | Yes | 464 | 7,644 | 0.044 | orchards |
| Freshwater Fish | 6 | 354 | Appalachian elktoe | Yes | 3,513 | 7,644 | 0.228 | vegetables |
| Mollusks | 6 | 354 | Appalachian elktoe | Yes | 3,826 | 7,644 | 0.044 | vegetables |
| Mollusks | 5 | 355 | Cumberland elktoe | Yes | 474 | 7,280 | 0.044 | nurseries |
| Freshwater Fish | 3 | 356 | Alabama (=inflated) heelsplitter | Yes | 839 | 13,015 | 0.228 | orchards |
| Mollusks | 3 | 356 | Alabama (=inflated) heelsplitter | Yes | 1,080 | 13,015 | 0.044 | orchards |
| Freshwater Fish | 6 | 356 | Alabama (=inflated) heelsplitter | Yes | 35 | 13,015 | 0.228 | vegetables |
| Mollusks | 6 | 356 | Alabama (=inflated) heelsplitter | Yes | 45 | 13,015 | 0.044 | vegetables |
| Freshwater Fish | 8 | 356 | Alabama (=inflated) heelsplitter | Yes | 514 | 13,015 | 0.228 | nurseries |
| Mollusks | 8 | 356 | Alabama (=inflated) heelsplitter | Yes | 934 | 13,015 | 0.044 | vegetables |
| Mollusks | 3 | 357 | Orangenacre mucket | Yes | 4,897 | 16,786 | 0.044 | orchards |
| Marine Fish | 5 | 358 | Oyster mussel | Yes | 228 | 17,619 | 0.228 | nurseries |
| Mollusks | 5 | 358 | Oyster mussel | Yes | 512 | 17,619 | 0.044 | nurseries |
| Marine Fish | 6 | 358 | Oyster mussel | Yes | 1,524 | 17,619 | 0.228 | vegetables |
| Mollusks | 6 | 358 | Oyster mussel | Yes | 2,441 | 17,619 | 0.044 | vegetables |
| Mollusks | 5 | 359 | Cracking pearlymussel | Yes | 1 | 8,352 | 0.044 | orchards |
| Freshwater Fish | 6 | 359 | Cracking pearlymussel | Yes | 1,136 | 8,352 | 0.228 | vegetables |
| Mollusks | 6 | 359 | Cracking pearlymussel | Yes | 1,868 | 8,352 | 0.044 | vegetables |
| Mollusks | 11 | 360 | Speckled pocketbook | Yes | 1,150 | 12,069 | 0.044 | orchards |
| Mollusks | 2 | 361 | James spinymussel | Yes | 1,757 | 13,209 | 0.044 | orchards |
| Mollusks | 3 | 361 | James spinymussel | Yes | 1,467 | 13,209 | 0.044 | vegetables |
| Mollusks | 5 | 361 | James spinymussel | Yes | 0 | 13,209 | 0.044 | orchards |
| Freshwater Fish | 3 | 362 | Stirrupshell | No | 1,119 | 3,190 | 0.228 | orchards |
| Mollusks | 3 | 362 | Stirrupshell | No | 1,426 | 3,190 | 0.044 | orchards |
| Marine Fish | 1 | 363 | Dwarf wedgemussel | Yes | 1,575 | 23,778 | 0.228 | vegetables |
| Mollusks | 1 | 363 | Dwarf wedgemussel | Yes | 1,661 | 23,778 | 0.044 | vegetables |
| Marine Fish | 2 | 363 | Dwarf wedgemussel | Yes | 5,279 | 23,778 | 0.228 | vegetables |
| Mollusks | 2 | 363 | Dwarf wedgemussel | Yes | 5,930 | 23,778 | 0.044 | vegetables |
| Marine Fish | 3 | 363 | Dwarf wedgemussel | Yes | 3,531 | 23,778 | 0.228 | vegetables |
| Mollusks | 3 | 363 | Dwarf wedgemussel | Yes | 3,815 | 23,778 | 0.044 | vegetables |
| Mollusks | 8 | 364 | Louisiana pearlshell | Yes | 779 | 5,273 | 0.044 | vegetables |
| Mollusks | 11 | 364 | Louisiana pearlshell | Yes | 364 | 5,273 | 0.044 | orchards |
| Freshwater Fish | 3 | 365 | Southern acornshell | Yes | 865 | 4,391 | 0.228 | vegetables |
| Mollusks | 3 | 365 | Southern acornshell | Yes | 1,326 | 4,391 | 0.044 | vegetables |
| Marine Fish | 3 | 366 | Purple bankclimber (mussel) | No | 11,707 | 16,776 | 0.228 | orchards |
| Mollusks | 3 | 366 | Purple bankclimber (mussel) | No | 11,861 | 16,776 | 0.044 | orchards |
| Freshwater Fish | 3 | 367 | Upland combshell | Yes | 3,035 | 13,966 | 0.228 | vegetables |
| Mollusks | 3 | 367 | Upland combshell | Yes | 4,295 | 13,966 | 0.044 | vegetables |
| Freshwater Fish | 6 | 367 | Upland combshell | Yes | 215 | 13,966 | 0.228 | vegetables |
| Mollusks | 6 | 367 | Upland combshell | Yes | 231 | 13,966 | 0.044 | vegetables |
| Mollusks | 5 | 368 | Fanshell | No | 149 | 1,510 | 0.044 | nurseries |
| Freshwater Fish | 11 | 369 | Arkansas fatmucket | Yes | 6 | 4,205 | 0.228 | orchards |
| Mollusks | 11 | 369 | Arkansas fatmucket | Yes | 10 | 4,205 | 0.044 | orchards |
| Freshwater Fish | 3 | 370 | Carolina heelsplitter | No | 6,093 | 12,090 | 0.228 | orchards |
| Mollusks | 3 | 370 | Carolina heelsplitter | No | 6,843 | 12,090 | 0.044 | orchards |
| Mollusks | 3 | 371 | Oval pigtoe | No | 14,834 | 21,937 | 0.044 | orchards |
| Mollusks | 3 | 372 | Finelined pocketbook | Yes | 5,509 | 18,386 | 0.044 | vegetables |
| Mollusks | 6 | 372 | Finelined pocketbook | Yes | 32 | 18,386 | 0.044 | vegetables |
| Mollusks | 3 | 373 | Shinyrayed pocketbook | No | 10,559 | 15,211 | 0.044 | orchards |
| Marine Fish | 4 | 374 | Northern riffleshell | Yes | 5,014 | 24,980 | 0.228 | vegetables |
| Mollusks | 4 | 374 | Northern riffleshell | Yes | 5,125 | 24,980 | 0.044 | vegetables |
| Marine Fish | 5 | 374 | Northern riffleshell | Yes | 1,496 | 24,980 | 0.228 | orchards |
| Mollusks | 5 | 374 | Northern riffleshell | Yes | 2,466 | 24,980 | 0.044 | nurseries |
| Marine Fish | 7 | 374 | Northern riffleshell | Yes | 50 | 24,980 | 0.47 | vegetables |
| Mollusks | 7 | 374 | Northern riffleshell | Yes | 50 | 24,980 | 0.044 | vegetables |
| Mollusks | 3 | 375 | Fat threeridge (mussel) | No | 6,352 | 9,553 | 0.044 | orchards |
| Freshwater Fish | 5 | 376 | Cumberland pigtoe | Yes | 300 | 2,552 | 0.228 | nurseries |
| Mollusks | 5 | 376 | Cumberland pigtoe | Yes | 337 | 2,552 | 0.044 | nurseries |
| Freshwater Fish | 6 | 376 | Cumberland pigtoe | Yes | 118 | 2,552 | 0.228 | vegetables |
| Mollusks | 6 | 376 | Cumberland pigtoe | Yes | 150 | 2,552 | 0.044 | vegetables |
| Freshwater Fish | 3 | 377 | Ovate clubshell | Yes | 6,016 | 29,458 | 0.228 | vegetables |
| Mollusks | 3 | 377 | Ovate clubshell | Yes | 8,369 | 29,458 | 0.044 | vegetables |
| Freshwater Fish | 3 | 378 | Southern clubshell | No | 929 | 3,448 | 0.228 | orchards |
| Mollusks | 3 | 378 | Southern clubshell | No | 1,155 | 3,448 | 0.044 | orchards |
| Mollusks | 3 | 379 | Triangular Kidneyshell | Yes | 3,019 | 11,478 | 0.044 | vegetables |
| Mollusks | 3 | 380 | Alabama moccasinshell | Yes | 4,563 | 17,312 | 0.044 | vegetables |
| Freshwater Fish | 3 | 381 | Coosa moccasinshell | Yes | 937 | 5,272 | 0.228 | vegetables |
| Mollusks | 3 | 381 | Coosa moccasinshell | Yes | 1,273 | 5,272 | 0.044 | vegetables |
| Mollusks | 3 | 382 | Dark pigtoe | Yes | 789 | 4,664 | 0.044 | vegetables |
| Mollusks | 6 | 382 | Dark pigtoe | Yes | 275 | 4,664 | 0.044 | vegetables |
| Freshwater Fish | 3 | 383 | Southern pigtoe | Yes | 2,177 | 11,538 | 0.228 | vegetables |
| Mollusks | 3 | 383 | Southern pigtoe | Yes | 3,097 | 11,538 | 0.044 | vegetables |
| Mollusks | 3 | 384 | Gulf moccasinshell | No | 11,460 | 16,562 | 0.044 | orchards |
| Freshwater Fish | 3 | 385 | Ochlockonee moccasinshell | No | 2,096 | 2,955 | 0.228 | orchards |
| Mollusks | 3 | 385 | Ochlockonee moccasinshell | No | 2,130 | 2,955 | 0.044 | orchards |
| Freshwater Fish | 3 | 386 | Chipola slabshell | No | 1,273 | 2,947 | 0.228 | orchards |
| Mollusks | 3 | 386 | Chipola slabshell | No | 1,322 | 2,947 | 0.044 | orchards |
| Freshwater Invertebrates | 6 | 396 | Anthony's riversnail | Yes | 1,521 | 4,886 | 0.044 | vegetables |
| Freshwater Invertebrates | 17 | 398 | Bliss Rapids snail | No | 142 | 272 | 0.044 | vegetables |
| Freshwater Invertebrates | 17 | 399 | Snake River physa snail | No | 533 | 854 | 0.044 | vegetables |
| Freshwater Invertebrates | 6 | 402 | Armored snail | Yes | 345 | 557 | 0.044 | vegetables |
| Freshwater Invertebrates | 13 | 403 | Alamosa springsnail | Yes | 678 | 10,307 | 0.044 | orchards |
| Freshwater Invertebrates | 17 | 404 | Bruneau Hot springsnail | No | 4 | 20 | 0.044 | vegetables |
| Freshwater Invertebrates | 11 | 406 | Tumbling Creek cavesnail | No | 68 | 1,100 | 0.044 | nurseries |
| Freshwater Invertebrates | 3 | 407 | Tulotoma snail | Yes | 5,773 | 13,570 | 0.044 | orchards |
| Freshwater Invertebrates | 13 | 408 | Socorro springsnail | Yes | 678 | 10,307 | 0.044 | orchards |
| Freshwater Invertebrates | 17 | 409 | Banbury Springs limpet | No | 4 | 4 | 0.044 | vegetables |
| Freshwater Invertebrates | 3 | 411 | Lacy elimia (snail) | Yes | 168 | 690 | 0.044 | vegetables |
| Freshwater Invertebrates | 3 | 412 | Cylindrical lioplax (snail) | Yes | 178 | 530 | 0.044 | vegetables |
| Freshwater Invertebrates | 3 | 413 | Flat pebblesnail | Yes | 125 | 322 | 0.044 | vegetables |
| Freshwater Invertebrates | 3 | 414 | Painted rocksnail | Yes | 336 | 996 | 0.044 | vegetables |
| Freshwater Invertebrates | 3 | 415 | Plicate rocksnail | Yes | 310 | 747 | 0.044 | vegetables |
| Freshwater Invertebrates | 3 | 416 | Round rocksnail | Yes | 430 | 1,212 | 0.044 | vegetables |
| Freshwater Invertebrates | 6 | 417 | Slender campeloma | Yes | 489 | 966 | 0.044 | vegetables |
| Freshwater Invertebrates | 18 | 435 | Delta green ground beetle | No | 752 | 2,514 | 0.044 | orchards |
| Freshwater Invertebrates | 4 | 441 | Hungerford's crawling water Beetle | No | 1,697 | 2,530 | 0.044 | vegetables |
| Freshwater Invertebrates | 4 | 445 | Hine's emerald dragonfly | Yes | 46 | 140 | 0.044 | vegetables |
| Freshwater Invertebrates | 7 | 445 | Hine's emerald dragonfly | Yes | 12 | 140 | 0.044 | nurseries |
| Freshwater Invertebrates | 12 | 453 | Comal Springs riffle beetle | No | 342 | 1,155 | 0.044 | orchards |
| Freshwater Invertebrates | 12 | 454 | Comal Springs dryopid beetle | No | 342 | 1,155 | 0.044 | orchards |
| Freshwater Invertebrates | 2 | 475 | Hay's Spring amphipod | Yes | 0 | 14 | 0.044 | orchards |
| Freshwater Invertebrates | 12 | 477 | Peck's cave amphipod | No | 217 | 569 | 0.044 | orchards |
| Freshwater Invertebrates | 5 | 478 | Nashville crayfish | Yes | 23 | 200 | 0.044 | nurseries |
| Freshwater Invertebrates | 18 | 479 | Shasta crayfish | No | 493 | 3,433 | 0.044 | vegetables |
| Freshwater Invertebrates | 6 | 480 | Alabama cave shrimp | Yes | 199 | 393 | 0.044 | vegetables |
| Freshwater Invertebrates | 18 | 481 | California freshwater shrimp | No | 3,373 | 5,500 | 0.044 | orchards |
| Freshwater Invertebrates | 5 | 482 | Kentucky cave shrimp | Yes | 291 | 1,656 | 0.044 | nurseries |
| Freshwater Invertebrates | 7 | 484 | Illinois cave amphipod | Yes | 859 | 1,736 | 0.044 | vegetables |
| Freshwater Invertebrates | 6 | 486 | Lee County cave isopod | Yes | 15 | 80 | 0.044 | orchards |
| Freshwater Invertebrates | 3 | 487 | Squirrel Chimney Cave shrimp | No | 271 | 391 | 0.044 | vegetables |
| Freshwater Invertebrates | 11 | 489 | Cave crayfish | No | 295 | 3,181 | 0.044 | nurseries |
| Aquatic Plants - vascular | 18 | 517 | Chinese Camp brodiaea | No | 140 | 459 | 500 | orchards |
| Aquatic Plants - vascular | 18 | 580 | Colusa grass | Yes | 1,027 | 2,362 | 500 | orchards |
| Aquatic Plants - vascular | 5 | 677 | Cumberland rosemary | Yes | 41 | 4,448 | 500 | nurseries |
| Aquatic Plants - vascular | 6 | 677 | Cumberland rosemary | Yes | 386 | 4,448 | 500 | vegetables |
| Aquatic Plants - vascular | 13 | 807 | Little Aguja (=Creek) Pondweed | No | 48 | 2,122 | 500 | orchards |
| Aquatic Plants - vascular | 12 | 870 | Texas wild-rice | Yes | 1,232 | 6,302 | 500 | vegetables |
| Aquatic Plants - vascular | 13 | 870 | Texas wild-rice | Yes | 106 | 6,302 | 500 | orchards |
| Aquatic Plants - vascular | 3 | 1064 | Kral's water-plantain | Yes | 92 | 1,485 | 500 | vegetables |
| Aquatic Plants - vascular | 3 | 1199 | Louisiana quillwort | Yes | 2,901 | 14,856 | 500 | vegetables |
| Aquatic Plants - vascular | 8 | 1199 | Louisiana quillwort | Yes | 110 | 14,856 | 500 | vegetables |
| Freshwater Invertebrates | 13 | 1247 | Koster's springsnail | Yes | 1,250 | 5,332 | 0.044 | orchards |
| Freshwater Invertebrates | 13 | 1261 | Noel's Amphipod | Yes | 1,250 | 5,332 | 0.044 | orchards |
| Freshwater Invertebrates | 3 | 1358 | Magnificent ramshorn | Yes | 816 | 1,699 | 0.044 | vegetables |
| Freshwater Fish | 3 | 1369 | Fuzzy pigtoe | No | 10,275 | 16,036 | 0.228 | orchards |
| Mollusks | 3 | 1369 | Fuzzy pigtoe | No | 10,652 | 16,036 | 0.044 | orchards |
| Freshwater Fish | 17 | 1509 | Chum salmon | Yes | 289 | 1,752 | 0.228 | vegetables |
| Marine Fish | 17 | 1509 | Chum salmon | Yes | 289 | 1,752 | 0.228 | vegetables |
| Marine Fish | 5 | 1559 | Fluted kidneyshell | Yes | 446 | 19,695 | 0.228 | nurseries |
| Mollusks | 5 | 1559 | Fluted kidneyshell | Yes | 868 | 19,695 | 0.044 | nurseries |
| Marine Fish | 6 | 1559 | Fluted kidneyshell | Yes | 1,513 | 19,695 | 0.228 | vegetables |
| Mollusks | 6 | 1559 | Fluted kidneyshell | Yes | 2,328 | 19,695 | 0.044 | vegetables |
| Freshwater Fish | 6 | 1680 | Alabama lampmussel | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 1680 | Alabama lampmussel | Yes | 679 | 2,904 | 0.044 | vegetables |
| Aquatic Amphibians | 18 | 1740 | Mountain yellow-legged frog | Yes | 154 | 3,993 | 0.47 | orchards |
| Aquatic Reptiles | 13 | 1783 | Northern Mexican gartersnake | Yes | 929 | 145,413 | 0.228 | vegetables |
| Aquatic Reptiles | 14 | 1783 | Northern Mexican gartersnake | Yes | 246 | 145,413 | 0.228 | vegetables |
| Aquatic Reptiles | 15 | 1783 | Northern Mexican gartersnake | Yes | 9,468 | 145,413 | 0.228 | orchards |
| Freshwater Invertebrates | 10 | 1849 | Meltwater lednian stonefly | Yes | 1,422 | 10,062 | 0.044 | vegetables |
| Freshwater Invertebrates | 17 | 1849 | Meltwater lednian stonefly | Yes | 431 | 10,062 | 0.044 | orchards |
| Mollusks | 6 | 1897 | Clubshell | Yes | 679 | 2,904 | 0.044 | vegetables |
| Marine Fish | 6 | 1905 | Oyster mussel | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 1905 | Oyster mussel | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 6 | 1934 | Spotfin Chub | No | 7 | 193 | 0.47 | vegetables |
| Mollusks | 6 | 2192 | Dromedary pearlymussel | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 6 | 2308 | Cracking pearlymussel | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 2308 | Cracking pearlymussel | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 6 | 2316 | Yellow blossom (pearlymussel) | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 2316 | Yellow blossom (pearlymussel) | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 18 | 2448 | Steelhead | No | 712 | 9,811 | 0.228 | orchards |
| Marine Fish | 18 | 2448 | Steelhead | No | 712 | 9,811 | 0.228 | orchards |
| Freshwater Fish | 17 | 2528 | Steelhead | Yes | 4,906 | 16,103 | 0.228 | orchards |
| Marine Fish | 17 | 2528 | Steelhead | Yes | 4,906 | 16,103 | 0.228 | orchards |
| Freshwater Invertebrates | 3 | 2561 | Interrupted (=Georgia) Rocksnail | Yes | 489 | 2,384 | 0.044 | vegetables |
| Freshwater Invertebrates | 6 | 2561 | Interrupted (=Georgia) Rocksnail | Yes | 2 | 2,384 | 3700 | nurseries |
| Freshwater Fish | 18 | 2842 | Steelhead | Yes | 5,116 | 11,027 | 0.228 | orchards |
| Marine Fish | 18 | 2842 | Steelhead | Yes | 5,116 | 11,027 | 0.228 | orchards |
| Marine Fish | 12 | 2917 | Texas Hornshell | Yes | 217 | 19,597 | 0.228 | vegetables |
| Mollusks | 12 | 2917 | Texas Hornshell | Yes | 375 | 19,597 | 0.044 | vegetables |
| Marine Fish | 13 | 2917 | Texas Hornshell | Yes | 2,700 | 19,597 | 0.228 | orchards |
| Mollusks | 13 | 2917 | Texas Hornshell | Yes | 3,280 | 19,597 | 0.044 | orchards |
| Freshwater Fish | 6 | 2956 | Yellowfin madtom | No | 7 | 193 | 0.47 | vegetables |
| Mollusks | 6 | 3226 | Finerayed pigtoe | Yes | 679 | 2,904 | 0.044 | vegetables |
| Aquatic Reptiles | 13 | 3271 | Narrow-headed gartersnake | Yes | 1,884 | 23,603 | 0.228 | vegetables |
| Aquatic Reptiles | 15 | 3271 | Narrow-headed gartersnake | Yes | 1,962 | 23,603 | 0.228 | vegetables |
| Freshwater Fish | 13 | 3280 | Zuni bluehead Sucker | Yes | 307 | 33,482 | 0.228 | vegetables |
| Freshwater Fish | 14 | 3280 | Zuni bluehead Sucker | Yes | 2,848 | 33,482 | 0.228 | vegetables |
| Freshwater Fish | 15 | 3280 | Zuni bluehead Sucker | Yes | 1,181 | 33,482 | 0.228 | vegetables |
| Freshwater Invertebrates | 3 | 3364 | Rough hornsnail | Yes | 464 | 1,400 | 0.044 | vegetables |
| Freshwater Fish | 17 | 3398 | Chinook salmon | Yes | 12,770 | 94,246 | 0.228 | vegetables |
| Marine Fish | 17 | 3398 | Chinook salmon | Yes | 12,770 | 94,246 | 0.228 | vegetables |
| Freshwater Fish | 13 | 3497 | Roundtail chub | Yes | 978 | 140,326 | 0.228 | vegetables |
| Freshwater Fish | 14 | 3497 | Roundtail chub | Yes | 469 | 140,326 | 0.228 | vegetables |
| Freshwater Fish | 15 | 3497 | Roundtail chub | Yes | 6,932 | 140,326 | 0.228 | orchards |
| Freshwater Fish | 3 | 3525 | Rush Darter | Yes | 1,007 | 3,529 | 0.228 | vegetables |
| Freshwater Fish | 6 | 3525 | Rush Darter | Yes | 49 | 3,529 | 0.228 | vegetables |
| Freshwater Fish | 12 | 3596 | Sharpnose Shiner | Yes | 1,287 | 3,989 | 0.228 | orchards |
| Mollusks | 4 | 3645 | Rabbitsfoot | Yes | 647 | 143,196 | 0.044 | orchards |
| Mollusks | 5 | 3645 | Rabbitsfoot | Yes | 5,069 | 143,196 | 0.044 | nurseries |
| Mollusks | 6 | 3645 | Rabbitsfoot | Yes | 2,470 | 143,196 | 0.044 | vegetables |
| Mollusks | 7 | 3645 | Rabbitsfoot | Yes | 847 | 143,196 | 0.044 | vegetables |
| Mollusks | 8 | 3645 | Rabbitsfoot | Yes | 4,689 | 143,196 | 0.044 | vegetables |
| Mollusks | 10 | 3645 | Rabbitsfoot | Yes | 64 | 143,196 | 0.044 | orchards |
| Mollusks | 11 | 3645 | Rabbitsfoot | Yes | 5,139 | 143,196 | 0.044 | orchards |
| Freshwater Fish | 18 | 3654 | Steelhead | No | 4,097 | 9,439 | 0.228 | orchards |
| Marine Fish | 18 | 3654 | Steelhead | No | 4,097 | 9,439 | 0.228 | orchards |
| Freshwater Fish | 3 | 3833 | Georgia pigtoe | Yes | 301 | 1,780 | 0.228 | vegetables |
| Mollusks | 3 | 3833 | Georgia pigtoe | Yes | 412 | 1,780 | 0.044 | vegetables |
| Freshwater Invertebrates | 6 | 3842 | Anthony's riversnail | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 11 | 3879 | Arkansas darter | Yes | 2,204 | 25,088 | 0.228 | vegetables |
| Freshwater Fish | 3 | 4042 | Choctaw bean | No | 4,428 | 7,124 | 0.228 | orchards |
| Mollusks | 3 | 4042 | Choctaw bean | No | 4,546 | 7,124 | 0.044 | orchards |
| Mollusks | 10 | 4086 | Neosho Mucket | Yes | 321 | 31,949 | 0.044 | vegetables |
| Mollusks | 11 | 4086 | Neosho Mucket | Yes | 3,510 | 31,949 | 0.044 | orchards |
| Freshwater Fish | 18 | 4093 | green sturgeon | Yes | 10,746 | 28,858 | 0.228 | orchards |
| Marine Fish | 18 | 4093 | green sturgeon | Yes | 10,746 | 28,858 | 0.228 | orchards |
| Freshwater Fish | 17 | 4112 | Steelhead | No | 4,230 | 6,917 | 0.228 | orchards |
| Marine Fish | 17 | 4112 | Steelhead | No | 4,230 | 6,917 | 0.228 | orchards |
| Freshwater Invertebrates | 13 | 4162 | Chupadera springsnail | Yes | 678 | 10,307 | 0.044 | orchards |
| Freshwater Fish | 3 | 4210 | Altamaha Spinymussel | No | 3,023 | 3,860 | 0.228 | orchards |
| Mollusks | 3 | 4210 | Altamaha Spinymussel | No | 3,065 | 3,860 | 0.044 | orchards |
| Freshwater Fish | 7 | 4248 | Grotto Sculpin | Yes | 105 | 1,150 | 0.228 | vegetables |
| Freshwater Fish | 17 | 4300 | Chinook salmon | Yes | 4,363 | 11,587 | 0.228 | vegetables |
| Marine Fish | 17 | 4300 | Chinook salmon | Yes | 4,363 | 11,587 | 0.228 | vegetables |
| Freshwater Fish | 1 | 4330 | Shortnose sturgeon | Yes | 1,337 | 12,978 | 0.228 | vegetables |
| Marine Fish | 1 | 4330 | Shortnose sturgeon | Yes | 1,337 | 12,978 | 0.228 | vegetables |
| Freshwater Fish | 2 | 4330 | Shortnose sturgeon | Yes | 2,087 | 12,978 | 0.228 | vegetables |
| Marine Fish | 2 | 4330 | Shortnose sturgeon | Yes | 2,087 | 12,978 | 0.228 | vegetables |
| Freshwater Fish | 3 | 4330 | Shortnose sturgeon | Yes | 2,368 | 12,978 | 0.228 | vegetables |
| Marine Fish | 3 | 4330 | Shortnose sturgeon | Yes | 2,368 | 12,978 | 0.228 | vegetables |
| Freshwater Fish | 3 | 4411 | Alabama pearlshell | No | 1,034 | 2,109 | 0.228 | orchards |
| Mollusks | 3 | 4411 | Alabama pearlshell | No | 1,181 | 2,109 | 0.044 | orchards |
| Freshwater Fish | 3 | 4431 | Pearl darter | No | 3,042 | 6,023 | 0.228 | vegetables |
| Freshwater Invertebrates | 13 | 4437 | Diamond Tryonia | Yes | 534 | 2,453 | 0.044 | orchards |
| Freshwater Invertebrates | 13 | 4479 | Phantom Springsnail | Yes | 454 | 3,481 | 0.044 | orchards |
| Mollusks | 5 | 4490 | Spectaclecase (mussel) | Yes | 1,281 | 41,139 | 0.044 | nurseries |
| Mollusks | 6 | 4490 | Spectaclecase (mussel) | Yes | 3,418 | 41,139 | 0.044 | vegetables |
| Mollusks | 7 | 4490 | Spectaclecase (mussel) | Yes | 4,130 | 41,139 | 0.044 | vegetables |
| Mollusks | 8 | 4490 | Spectaclecase (mussel) | Yes | 47 | 41,139 | 0.044 | vegetables |
| Mollusks | 10 | 4490 | Spectaclecase (mussel) | Yes | 553 | 41,139 | 0.044 | nurseries |
| Mollusks | 11 | 4490 | Spectaclecase (mussel) | Yes | 19 | 41,139 | 0.044 | nurseries |
| Freshwater Fish | 6 | 4496 | Yellowfin madtom | Yes | 341 | 1,792 | 0.228 | vegetables |
| Aquatic-dependent Birds | 3 | 4679 | Whooping crane | Yes | 5,225 | 119,094 | 0.228 | orchards |
| Aquatic-dependent Birds | 10 | 4679 | Whooping crane | Yes | 5,095 | 119,094 | 0.228 | vegetables |
| Aquatic-dependent Birds | 11 | 4679 | Whooping crane | Yes | 13,109 | 119,094 | 0.228 | vegetables |
| Aquatic-dependent Birds | 12 | 4679 | Whooping crane | Yes | 4,913 | 119,094 | 0.228 | orchards |
| Aquatic-dependent Birds | 13 | 4679 | Whooping crane | Yes | 23 | 119,094 | 0.228 | orchards |
| Freshwater Fish | 17 | 4799 | Chinook salmon | Yes | 2,145 | 9,229 | 0.228 | vegetables |
| Marine Fish | 17 | 4799 | Chinook salmon | Yes | 2,145 | 9,229 | 0.228 | vegetables |
| Freshwater Fish | 3 | 4881 | Smalltooth sawfish | No | 1,113 | 7,231 | 0.228 | orchards |
| Marine Fish | 3 | 4881 | Smalltooth sawfish | No | 1,113 | 7,231 | 0.228 | orchards |
| Freshwater Invertebrates | 10 | 4910 | Salt Creek Tiger beetle | No | 1,049 | 2,082 | 0.044 | vegetables |
| Freshwater Fish | 18 | 4992 | Chinook salmon | No | 1,835 | 11,731 | 0.228 | orchards |
| Marine Fish | 18 | 4992 | Chinook salmon | No | 1,835 | 11,731 | 0.228 | orchards |
| Aquatic Amphibians | 3 | 5065 | Black warrior (=Sipsey Fork) Waterdog | Yes | 1,799 | 7,443 | 0.228 | vegetables |
| Aquatic Amphibians | 6 | 5065 | Black warrior (=Sipsey Fork) Waterdog | Yes | 49 | 7,443 | 0.228 | vegetables |
| Freshwater Invertebrates | 5 | 5153 | Big Sandy crayfish | Yes | 776 | 5,624 | 0.044 | orchards |
| Freshwater Fish | 17 | 5180 | Chum salmon | Yes | 2,366 | 6,130 | 0.228 | vegetables |
| Marine Fish | 17 | 5180 | Chum salmon | Yes | 2,366 | 6,130 | 0.228 | vegetables |
| Freshwater Fish | 17 | 5265 | Coho salmon | No | 2,446 | 12,540 | 0.228 | vegetables |
| Marine Fish | 17 | 5265 | Coho salmon | No | 2,446 | 12,540 | 0.228 | vegetables |
| Mollusks | 4 | 5281 | Snuffbox mussel | Yes | 12,154 | 102,180 | 0.044 | vegetables |
| Mollusks | 5 | 5281 | Snuffbox mussel | Yes | 5,013 | 102,180 | 0.044 | nurseries |
| Mollusks | 6 | 5281 | Snuffbox mussel | Yes | 2,336 | 102,180 | 0.044 | vegetables |
| Mollusks | 7 | 5281 | Snuffbox mussel | Yes | 5,878 | 102,180 | 0.044 | vegetables |
| Mollusks | 10 | 5281 | Snuffbox mussel | Yes | 307 | 102,180 | 0.044 | vegetables |
| Mollusks | 11 | 5281 | Snuffbox mussel | Yes | 714 | 102,180 | 0.044 | orchards |
| Freshwater Invertebrates | 13 | 5362 | Gonzales tryonia | Yes | 534 | 2,453 | 0.044 | orchards |
| Aquatic Amphibians | 12 | 5434 | Georgetown Salamander | No | 439 | 1,109 | 0.228 | orchards |
| Freshwater Fish | 18 | 5658 | Steelhead | Yes | 2,923 | 20,641 | 0.228 | orchards |
| Marine Fish | 18 | 5658 | Steelhead | Yes | 2,923 | 20,641 | 0.228 | orchards |
| Freshwater Invertebrates | 2 | 5714 | Kenk's amphipod | No | 59 | 107 | 0.044 | vegetables |
| Marine Fish | 6 | 5715 | Cumberlandian combshell | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 5715 | Cumberlandian combshell | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 6 | 5718 | Cumberland monkeyface (pearlymussel) | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 5718 | Cumberland monkeyface (pearlymussel) | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 5 | 5719 | Cumberland darter | Yes | 36 | 1,943 | 0.228 | nurseries |
| Freshwater Fish | 17 | 5815 | Steelhead | Yes | 8,874 | 38,729 | 0.228 | orchards |
| Marine Fish | 17 | 5815 | Steelhead | Yes | 8,874 | 38,729 | 0.228 | orchards |
| Mollusks | 6 | 5833 | Shiny pigtoe | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 6 | 5856 | Turgid blossom (pearlymussel) | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 5856 | Turgid blossom (pearlymussel) | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 6 | 5981 | Smoky madtom | No | 7 | 193 | 0.47 | vegetables |
| Mollusks | 4 | 6062 | Rayed Bean | Yes | 6,182 | 34,992 | 0.044 | vegetables |
| Mollusks | 5 | 6062 | Rayed Bean | Yes | 4,345 | 34,992 | 0.044 | orchards |
| Mollusks | 6 | 6062 | Rayed Bean | Yes | 1,057 | 34,992 | 0.044 | vegetables |
| Mollusks | 7 | 6062 | Rayed Bean | Yes | 428 | 34,992 | 0.044 | vegetables |
| Freshwater Invertebrates | 13 | 6138 | Phantom Tryonia | Yes | 454 | 3,481 | 0.044 | orchards |
| Freshwater Fish | 17 | 6220 | Steelhead | Yes | 1,892 | 7,786 | 0.228 | vegetables |
| Marine Fish | 17 | 6220 | Steelhead | Yes | 1,892 | 7,786 | 0.228 | vegetables |
| Freshwater Fish | 6 | 6223 | Tubercled blossom (pearlymussel) | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 6223 | Tubercled blossom (pearlymussel) | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 13 | 6297 | Gila chub | Yes | 921 | 22,024 | 0.228 | vegetables |
| Freshwater Fish | 15 | 6297 | Gila chub | Yes | 2,553 | 22,024 | 0.228 | orchards |
| Aquatic Amphibians | 12 | 6346 | Austin blind Salamander | No | 278 | 1,104 | 0.228 | nurseries |
| Freshwater Fish | 6 | 6503 | Duskytail darter | No | 7 | 193 | 0.47 | vegetables |
| Freshwater Fish | 3 | 6534 | Tapered pigtoe | No | 5,732 | 9,415 | 0.228 | orchards |
| Mollusks | 3 | 6534 | Tapered pigtoe | No | 5,899 | 9,415 | 0.044 | orchards |
| Freshwater Fish | 5 | 6557 | diamond Darter | No | 11 | 1,516 | 0.228 | nurseries |
| Freshwater Fish | 17 | 6578 | Coho salmon | Yes | 746 | 24,150 | 0.228 | vegetables |
| Marine Fish | 17 | 6578 | Coho salmon | Yes | 746 | 24,150 | 0.228 | vegetables |
| Freshwater Fish | 18 | 6578 | Coho salmon | Yes | 734 | 24,150 | 0.228 | orchards |
| Marine Fish | 18 | 6578 | Coho salmon | Yes | 734 | 24,150 | 0.228 | orchards |
| Freshwater Invertebrates | 13 | 6596 | Pecos amphipod | Yes | 534 | 2,453 | 0.044 | orchards |
| Freshwater Fish | 11 | 6662 | Yellowcheek Darter | No | 12 | 1,395 | 0.47 | vegetables |
| Mollusks | 5 | 6841 | Slabside Pearlymussel | Yes | 511 | 19,540 | 0.044 | nurseries |
| Mollusks | 6 | 6841 | Slabside Pearlymussel | Yes | 3,693 | 19,540 | 0.044 | vegetables |
| Freshwater Fish | 17 | 6843 | Sockeye salmon | No | 56 | 117 | 0.228 | vegetables |
| Marine Fish | 17 | 6843 | Sockeye salmon | No | 56 | 117 | 0.228 | vegetables |
| Freshwater Fish | 18 | 6966 | Coho salmon | No | 3,958 | 10,797 | 0.228 | orchards |
| Marine Fish | 18 | 6966 | Coho salmon | No | 3,958 | 10,797 | 0.228 | orchards |
| Freshwater Fish | 6 | 7091 | Winged Mapleleaf | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 7091 | Winged Mapleleaf | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 6 | 7150 | Chucky Madtom | No | 337 | 558 | 0.228 | vegetables |
| Freshwater Fish | 3 | 7177 | Narrow pigtoe | No | 6,901 | 11,751 | 0.228 | orchards |
| Mollusks | 3 | 7177 | Narrow pigtoe | No | 7,284 | 11,751 | 0.044 | orchards |
| Freshwater Fish | 6 | 7332 | Spring pygmy sunfish | No | 83 | 161 | 0.228 | vegetables |
| Aquatic-dependent Birds | 4 | 7342 | Whooping crane | Yes | 5,293 | 31,341 | 0.228 | vegetables |
| Aquatic-dependent Birds | 7 | 7342 | Whooping crane | Yes | 18,384 | 31,341 | 0.228 | vegetables |
| Freshwater Fish | 3 | 7349 | Southern sandshell | No | 12,676 | 20,926 | 0.228 | orchards |
| Mollusks | 3 | 7349 | Southern sandshell | No | 13,234 | 20,926 | 0.044 | orchards |
| Freshwater Fish | 3 | 7363 | Round Ebonyshell | No | 3,912 | 6,511 | 0.228 | orchards |
| Mollusks | 3 | 7363 | Round Ebonyshell | No | 4,104 | 6,511 | 0.044 | orchards |
| Mollusks | 3 | 7372 | Suwannee moccasinshell | No | 5,640 | 6,823 | 0.044 | orchards |
| Freshwater Fish | 6 | 7512 | Cumberland bean (pearlymussel) | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 7512 | Cumberland bean (pearlymussel) | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 17 | 7590 | Chinook salmon | Yes | 3,444 | 12,318 | 0.228 | orchards |
| Marine Fish | 17 | 7590 | Chinook salmon | Yes | 3,444 | 12,318 | 0.228 | orchards |
| Aquatic Amphibians | 12 | 7610 | Salado Salamander | No | 534 | 1,023 | 0.47 | orchards |
| Freshwater Fish | 11 | 7670 | Smalleye Shiner | Yes | 16 | 9,819 | 0.47 | vegetables |
| Freshwater Fish | 12 | 7670 | Smalleye Shiner | Yes | 3,103 | 9,819 | 0.228 | vegetables |
| Aquatic Reptiles | 4 | 7800 | Eastern Massasauga (=rattlesnake) | Yes | 31,521 | 80,482 | 0.228 | vegetables |
| Aquatic Reptiles | 5 | 7800 | Eastern Massasauga (=rattlesnake) | Yes | 3,610 | 80,482 | 0.228 | orchards |
| Aquatic Reptiles | 7 | 7800 | Eastern Massasauga (=rattlesnake) | Yes | 12,530 | 80,482 | 0.228 | vegetables |
| Mollusks | 4 | 7816 | Sheepnose Mussel | Yes | 2 | 32,931 | 3700 | vegetables |
| Mollusks | 5 | 7816 | Sheepnose Mussel | Yes | 1,549 | 32,931 | 0.044 | nurseries |
| Mollusks | 6 | 7816 | Sheepnose Mussel | Yes | 1,364 | 32,931 | 0.044 | vegetables |
| Mollusks | 7 | 7816 | Sheepnose Mussel | Yes | 3,351 | 32,931 | 0.044 | vegetables |
| Mollusks | 8 | 7816 | Sheepnose Mussel | Yes | 3,307 | 32,931 | 0.044 | orchards |
| Mollusks | 10 | 7816 | Sheepnose Mussel | Yes | 76 | 32,931 | 0.044 | nurseries |
| Freshwater Fish | 17 | 7834 | Chinook salmon | Yes | 2,664 | 10,338 | 0.228 | vegetables |
| Marine Fish | 17 | 7834 | Chinook salmon | Yes | 2,664 | 10,338 | 0.228 | vegetables |
| Aquatic Amphibians | 7 | 7847 | Ozark Hellbender | Yes | 2 | 15,501 | 0.47 | nurseries |
| Aquatic Amphibians | 10 | 7847 | Ozark Hellbender | Yes | 27 | 15,501 | 0.228 | nurseries |
| Aquatic Amphibians | 11 | 7847 | Ozark Hellbender | Yes | 347 | 15,501 | 0.228 | vegetables |
| Freshwater Fish | 18 | 7855 | Chinook salmon | No | 2,927 | 14,956 | 0.228 | orchards |
| Marine Fish | 18 | 7855 | Chinook salmon | No | 2,927 | 14,956 | 0.228 | orchards |
| Freshwater Fish | 3 | 7949 | Southern kidneyshell | No | 10,169 | 16,732 | 0.228 | orchards |
| Mollusks | 3 | 7949 | Southern kidneyshell | No | 10,573 | 16,732 | 0.044 | orchards |
| Freshwater Fish | 17 | 7989 | Steelhead | Yes | 12,796 | 94,424 | 0.228 | vegetables |
| Marine Fish | 17 | 7989 | Steelhead | Yes | 12,796 | 94,424 | 0.228 | vegetables |
| Freshwater Invertebrates | 13 | 8172 | Diminutive Amphipod | Yes | 460 | 3,527 | 0.044 | orchards |
| Aquatic Amphibians | 12 | 8231 | Jollyville Plateau Salamander | No | 683 | 2,166 | 0.228 | orchards |
| Freshwater Fish | 17 | 8241 | Chinook salmon | No | 3,724 | 9,108 | 0.228 | vegetables |
| Marine Fish | 17 | 8241 | Chinook salmon | No | 3,724 | 9,108 | 0.228 | vegetables |
| Freshwater Fish | 17 | 8278 | Sockeye salmon | Yes | 22 | 709 | 0.228 | vegetables |
| Marine Fish | 17 | 8278 | Sockeye salmon | Yes | 22 | 709 | 0.228 | vegetables |
| Marine Fish | 6 | 8349 | Purple Cat's paw pearlymussel | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 8349 | Purple Cat's paw pearlymussel | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Fish | 6 | 8356 | Birdwing pearlymussel | Yes | 469 | 2,904 | 0.228 | vegetables |
| Mollusks | 6 | 8356 | Birdwing pearlymussel | Yes | 679 | 2,904 | 0.044 | vegetables |
| Freshwater Invertebrates | 3 | 8434 | Black mudalia | Yes | 841 | 1,806 | 0.044 | vegetables |
| Freshwater Invertebrates | 6 | 8434 | Black mudalia | Yes | 60 | 1,806 | 0.044 | vegetables |
| Freshwater Fish | 3 | 8442 | Sicklefin redhorse | Yes | 160 | 3,990 | 0.228 | vegetables |
| Freshwater Fish | 6 | 8442 | Sicklefin redhorse | Yes | 1,564 | 3,990 | 0.228 | vegetables |
| Freshwater Fish | 13 | 8561 | Headwater chub | Yes | 57 | 42,157 | 0.228 | vegetables |
| Freshwater Fish | 15 | 8561 | Headwater chub | Yes | 2,945 | 42,157 | 0.228 | orchards |
| Aquatic-dependent Birds | 1 | 8621 | Red knot | Yes | 13,396 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 2 | 8621 | Red knot | Yes | 36,228 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 3 | 8621 | Red knot | Yes | 15,127 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 4 | 8621 | Red knot | Yes | 46,689 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 5 | 8621 | Red knot | Yes | 7,272 | 1,268,369 | 0.228 | orchards |
| Aquatic-dependent Birds | 6 | 8621 | Red knot | Yes | 13,321 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 7 | 8621 | Red knot | Yes | 75,128 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 8 | 8621 | Red knot | Yes | 1,987 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 9 | 8621 | Red knot | Yes | 15,016 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 10 | 8621 | Red knot | Yes | 73,999 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 11 | 8621 | Red knot | Yes | 23,655 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 12 | 8621 | Red knot | Yes | 10,698 | 1,268,369 | 0.228 | orchards |
| Aquatic-dependent Birds | 13 | 8621 | Red knot | Yes | 1,358 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 14 | 8621 | Red knot | Yes | 4,793 | 1,268,369 | 0.228 | vegetables |
| Aquatic-dependent Birds | 17 | 8621 | Red knot | Yes | 16 | 1,268,369 | 0.228 | vegetables |
| Aquatic Amphibians | 6 | 8765 | Berry Cave salamander | No | 500 | 1,298 | 0.228 | vegetables |
| Freshwater Fish | 6 | 8921 | Boulder darter | No | 170 | 675 | 0.228 | vegetables |
| Freshwater Fish | 17 | 9021 | Coho salmon | Yes | 2,664 | 10,338 | 0.228 | vegetables |
| Marine Fish | 17 | 9021 | Coho salmon | Yes | 2,664 | 10,338 | 0.228 | vegetables |
| Freshwater Fish | 6 | 9061 | Spotfin Chub | No | 170 | 675 | 0.228 | vegetables |
| Freshwater Fish | 5 | 9220 | Laurel dace | Yes | 1 | 1,468 | 0.47 | nurseries |
| Freshwater Fish | 6 | 9220 | Laurel dace | Yes | 547 | 1,468 | 0.228 | vegetables |
| Freshwater Fish | 17 | 9432 | Steelhead | Yes | 3,436 | 14,287 | 0.228 | vegetables |
| Marine Fish | 17 | 9432 | Steelhead | Yes | 3,436 | 14,287 | 0.228 | vegetables |
| Freshwater Fish | 6 | 9487 | Appalachian monkeyface (pearlymussel) | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9487 | Appalachian monkeyface (pearlymussel) | No | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 6 | 9488 | Birdwing pearlymussel | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9488 | Birdwing pearlymussel | No | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 6 | 9489 | Cracking pearlymussel | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9489 | Cracking pearlymussel | No | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 6 | 9490 | Cumberland bean (pearlymussel) | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9490 | Cumberland bean (pearlymussel) | No | 428 | 1,343 | 0.044 | vegetables |
| Mollusks | 6 | 9491 | Cumberlandian combshell | No | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 6 | 9492 | Cumberland monkeyface (pearlymussel) | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9492 | Cumberland monkeyface (pearlymussel) | No | 428 | 1,343 | 0.044 | vegetables |
| Mollusks | 6 | 9493 | Dromedary pearlymussel | No | 428 | 1,343 | 0.044 | vegetables |
| Mollusks | 6 | 9494 | Fanshell | No | 428 | 1,343 | 0.044 | vegetables |
| Mollusks | 6 | 9495 | Finerayed pigtoe | No | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 6 | 9496 | Orangefoot pimpleback (pearlymussel) | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9496 | Orangefoot pimpleback (pearlymussel) | No | 428 | 1,343 | 0.044 | vegetables |
| Marine Fish | 6 | 9497 | Oyster mussel | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9497 | Oyster mussel | No | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 6 | 9498 | Ring pink (mussel) | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9498 | Ring pink (mussel) | No | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 6 | 9499 | Rough pigtoe | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9499 | Rough pigtoe | No | 428 | 1,343 | 0.044 | vegetables |
| Mollusks | 6 | 9500 | Shiny pigtoe | No | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 6 | 9501 | White wartyback (pearlymussel) | No | 338 | 1,343 | 0.228 | vegetables |
| Mollusks | 6 | 9501 | White wartyback (pearlymussel) | No | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 6 | 9502 | Duskytail darter | No | 338 | 1,343 | 0.228 | vegetables |
| Freshwater Fish | 6 | 9503 | Pygmy madtom | No | 338 | 1,343 | 0.228 | vegetables |
| Freshwater Fish | 6 | 9504 | Slender chub | No | 338 | 1,343 | 0.228 | vegetables |
| Freshwater Fish | 6 | 9505 | Spotfin Chub | No | 338 | 1,343 | 0.228 | vegetables |
| Freshwater Fish | 6 | 9506 | Yellowfin madtom | No | 338 | 1,343 | 0.228 | vegetables |
| Freshwater Invertebrates | 6 | 9507 | Anthony's riversnail | Yes | 428 | 1,343 | 0.044 | vegetables |
| Freshwater Fish | 11 | 9967 | Texas fawnsfoot | Yes | 9 | 31,415 | 0.228 | vegetables |
| Mollusks | 11 | 9967 | Texas fawnsfoot | Yes | 13 | 31,415 | 0.044 | vegetables |
| Freshwater Fish | 12 | 9967 | Texas fawnsfoot | Yes | 11,742 | 31,415 | 0.228 | orchards |
| Mollusks | 12 | 9967 | Texas fawnsfoot | Yes | 13,234 | 31,415 | 0.044 | orchards |
| Mollusks | 12 | 9968 | Texas pimpleback | Yes | 10,706 | 27,032 | 0.044 | orchards |
| Freshwater Fish | 12 | 9969 | Smooth pimpleback | Yes | 11,885 | 30,221 | 0.228 | orchards |
| Mollusks | 12 | 9969 | Smooth pimpleback | Yes | 12,959 | 30,221 | 0.044 | orchards |
| Freshwater Fish | 17 | 10037 | Bull Trout | No | 335 | 980 | 0.228 | orchards |
| Marine Fish | 17 | 10037 | Bull Trout | No | 335 | 980 | 0.228 | orchards |
| Freshwater Fish | 12 | 10038 | Texas fatmucket | Yes | 6,309 | 21,390 | 0.228 | orchards |
| Mollusks | 12 | 10038 | Texas fatmucket | Yes | 7,545 | 21,390 | 0.044 | orchards |
| Freshwater Fish | 12 | 10039 | Golden orb | Yes | 4,030 | 15,197 | 0.228 | vegetables |
| Mollusks | 12 | 10039 | Golden orb | Yes | 5,030 | 15,197 | 0.044 | vegetables |
| Freshwater Fish | 13 | 10052 | Rio Grande Silvery Minnow | Yes | 4,137 | 45,956 | 0.228 | orchards |
| Freshwater Fish | 14 | 10052 | Rio Grande Silvery Minnow | Yes | 4 | 45,956 | 0.47 | vegetables |
| Freshwater Fish | 15 | 10052 | Rio Grande Silvery Minnow | Yes | 57 | 45,956 | 0.228 | orchards |
| Freshwater Fish | 5 | 10060 | Kentucky arrow darter | Yes | 139 | 6,614 | 0.228 | nurseries |
| Freshwater Fish | 6 | 10060 | Kentucky arrow darter | Yes | 7 | 6,614 | 0.228 | vegetables |
| Freshwater Fish | 1 | 10077 | Atlantic salmon | No | 13,619 | 18,459 | 0.228 | vegetables |
| Marine Fish | 1 | 10077 | Atlantic salmon | No | 13,619 | 18,459 | 0.228 | vegetables |
| Aquatic-dependent Birds | 3 | 10124 | Whooping crane | Yes | 3 | 66,240 | 0.47 | vegetables |
| Aquatic-dependent Birds | 8 | 10124 | Whooping crane | Yes | 9,651 | 66,240 | 0.228 | orchards |
| Aquatic-dependent Birds | 11 | 10124 | Whooping crane | Yes | 1,467 | 66,240 | 0.228 | orchards |
| Aquatic-dependent Birds | 12 | 10124 | Whooping crane | Yes | 358 | 66,240 | 0.228 | vegetables |
| Freshwater Invertebrates | 10 | 10130 | Arapahoe snowfly | Yes | 745 | 4,911 | 0.044 | vegetables |
| Freshwater Fish | 17 | 10150 | Eulachon | Yes | 33,524 | 192,329 | 0.228 | vegetables |
| Marine Fish | 17 | 10150 | Eulachon | Yes | 33,524 | 192,329 | 0.228 | vegetables |
| Freshwater Fish | 18 | 10150 | Eulachon | Yes | 11,334 | 192,329 | 0.228 | orchards |
| Marine Fish | 18 | 10150 | Eulachon | Yes | 11,334 | 192,329 | 0.228 | orchards |
| Freshwater Fish | 1 | 10297 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Marine Fish | 1 | 10297 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 2 | 10297 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Marine Fish | 2 | 10297 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 3 | 10297 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Marine Fish | 3 | 10297 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 1 | 10298 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Marine Fish | 1 | 10298 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 2 | 10298 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Marine Fish | 2 | 10298 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 3 | 10298 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Marine Fish | 3 | 10298 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 1 | 10299 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Marine Fish | 1 | 10299 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 2 | 10299 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Marine Fish | 2 | 10299 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 3 | 10299 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Marine Fish | 3 | 10299 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 1 | 10300 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Marine Fish | 1 | 10300 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 2 | 10300 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Marine Fish | 2 | 10300 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 3 | 10300 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Marine Fish | 3 | 10300 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 1 | 10301 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Marine Fish | 1 | 10301 | Atlantic sturgeon | Yes | 29,566 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 2 | 10301 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Marine Fish | 2 | 10301 | Atlantic sturgeon | Yes | 26,192 | 187,068 | 0.228 | vegetables |
| Freshwater Fish | 3 | 10301 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Marine Fish | 3 | 10301 | Atlantic sturgeon | Yes | 35,485 | 187,068 | 0.228 | vegetables |
| Aquatic Reptiles | 1 | 10485 | Green sea turtle | Yes | 695 | 22,002 | 0.47 | vegetables |
| Marine Reptiles | 1 | 10485 | Green sea turtle | Yes | 695 | 22,002 | 0.47 | vegetables |
| Aquatic Reptiles | 8 | 10485 | Green sea turtle | Yes | 65 | 22,002 | 0.228 | nurseries |
| Marine Reptiles | 8 | 10485 | Green sea turtle | Yes | 65 | 22,002 | 0.228 | nurseries |
| Aquatic Reptiles | 18 | 10485 | Green sea turtle | Yes | 567 | 22,002 | 0.228 | orchards |
| Marine Reptiles | 18 | 10485 | Green sea turtle | Yes | 567 | 22,002 | 0.228 | orchards |
| Freshwater Fish | 10 | 10910 | Topeka shiner | Yes | 73 | 345 | 0.47 | vegetables |
| Aquatic Reptiles | 1 | 11175 | Green sea turtle | Yes | 695 | 22,002 | 0.47 | vegetables |
| Marine Reptiles | 1 | 11175 | Green sea turtle | Yes | 695 | 22,002 | 0.47 | vegetables |
| Aquatic Reptiles | 8 | 11175 | Green sea turtle | Yes | 65 | 22,002 | 0.228 | nurseries |
| Marine Reptiles | 8 | 11175 | Green sea turtle | Yes | 65 | 22,002 | 0.228 | nurseries |
| Aquatic Reptiles | 18 | 11175 | Green sea turtle | Yes | 567 | 22,002 | 0.228 | orchards |
| Marine Reptiles | 18 | 11175 | Green sea turtle | Yes | 567 | 22,002 | 0.228 | orchards |
| Aquatic Reptiles | 1 | 11176 | Green sea turtle | Yes | 695 | 22,002 | 0.47 | vegetables |
| Marine Reptiles | 1 | 11176 | Green sea turtle | Yes | 695 | 22,002 | 0.47 | vegetables |
| Aquatic Reptiles | 8 | 11176 | Green sea turtle | Yes | 65 | 22,002 | 0.228 | nurseries |
| Marine Reptiles | 8 | 11176 | Green sea turtle | Yes | 65 | 22,002 | 0.228 | nurseries |
| Aquatic Reptiles | 18 | 11176 | Green sea turtle | Yes | 567 | 22,002 | 0.228 | orchards |
| Marine Reptiles | 18 | 11176 | Green sea turtle | Yes | 567 | 22,002 | 0.228 | orchards |
| Aquatic Reptiles | 1 | 11192 | Green sea turtle | Yes | 695 | 27,788 | 0.47 | vegetables |
| Marine Reptiles | 1 | 11192 | Green sea turtle | Yes | 695 | 27,788 | 0.47 | vegetables |
| Aquatic Reptiles | 8 | 11192 | Green sea turtle | Yes | 65 | 27,788 | 0.228 | nurseries |
| Marine Reptiles | 8 | 11192 | Green sea turtle | Yes | 65 | 27,788 | 0.228 | nurseries |
| Aquatic Reptiles | 18 | 11192 | Green sea turtle | Yes | 567 | 27,788 | 0.228 | orchards |
| Marine Reptiles | 18 | 11192 | Green sea turtle | Yes | 567 | 27,788 | 0.228 | orchards |
| Aquatic Reptiles | 1 | 11193 | Green sea turtle | Yes | 695 | 22,002 | 0.47 | vegetables |
| Marine Reptiles | 1 | 11193 | Green sea turtle | Yes | 695 | 22,002 | 0.47 | vegetables |
| Aquatic Reptiles | 8 | 11193 | Green sea turtle | Yes | 65 | 22,002 | 0.228 | nurseries |
| Marine Reptiles | 8 | 11193 | Green sea turtle | Yes | 65 | 22,002 | 0.228 | nurseries |
| Aquatic Reptiles | 18 | 11193 | Green sea turtle | Yes | 567 | 22,002 | 0.228 | orchards |
| Marine Reptiles | 18 | 11193 | Green sea turtle | Yes | 567 | 22,002 | 0.228 | orchards |
| Freshwater Invertebrates | 5 | 11201 | Guyandotte River crayfish | Yes | 206 | 1,238 | 0.044 | orchards |
| Freshwater Fish | 18 | 11262 | longfin smelt | Yes | 3,943 | 14,326 | 0.228 | orchards |
| Marine Fish | 18 | 11262 | longfin smelt | Yes | 3,943 | 14,326 | 0.228 | orchards |

1. Column header definitions

ESA Taxa – taxa assigned to species. In some cases, a species may be assigned to multiple taxa if they can inhabit freshwater and estuarine/marine environments.

HUC 2 – hydrologic unit code assessed

Entity ID – identification number for species

Species common name

Multiple HUCs? – Does the species range include multiple HUC 2s. Yes/No answer.

Stream Miles Affected in HUC (miles) – indicates the number of miles in the species range, in the HUC 2, where the downstream dilution EEC exceeds the specified threshold.

Species Range, All HUCs (miles) – indicates the species range, in miles, spanning all HUC2s.

Threshold value (ug/L) – indicates the threshold value, applicable to the species, which was used to generate the number of stream miles affected in the HUC.

Use Impacting Species – the Pesticide in Water Calculator (PWC) modeled scenario that generated the number of stream miles affected

2. Endpoint values correspond to the following effects

Direct effects to fish and amphibians – 0.47 µg/L (reproduction) Indirect effects to fish and amphibians – 0.47 µg/L (reproduction)

Direct effects to aquatic invertebrates – 0.044 µg/L (mortality) Indirect effects to aquatic invertebrates – 0.228 µg/L (fecundity)

Direct effects to aquatic plants – 500 µg/L (NOEC, decrease biomass) Indirect effects to aquatic plants – 3,700 µg/L (EC50, decreased biomass)

**Table B 3-5.3. Step 2 Downstream Dilution Determinations Based on Species Critical Habitat1**

| ESA Taxa | HUC 2 | Entity ID | Species Common Name | Multiple HUCs? | Stream Miles Affected in HUC (miles) | Species Range, All HUCs (miles) | Threshold Value (µg/L) | Use Impacting Species |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Freshwater Mammals | 3 | 7 | West Indian Manatee | Yes | 1,550 | 4,071 | 0.228 | orchards |
| Marine Mammals | 3 | 7 | West Indian Manatee | Yes | 1,550 | 4,071 | 0.228 | orchards |
| Aquatic-dependent Birds | 10 | 67 | Whooping crane | Yes | 199 | 1,194 | 0.228 | vegetables |
| Aquatic-dependent Birds | 11 | 67 | Whooping crane | Yes | 70 | 1,194 | 0.228 | vegetables |
| Aquatic-dependent Birds | 12 | 67 | Whooping crane | Yes | 3 | 1,194 | 0.228 | vegetables |
| Aquatic-dependent Birds | 9 | 130 | Piping Plover | Yes | 72 | 3,695 | 0.47 | vegetables |
| Aquatic-dependent Birds | 3 | 131 | Piping Plover | Yes | 26 | 1,374 | 0.47 | orchards |
| Aquatic-dependent Birds | 8 | 131 | Piping Plover | Yes | 2 | 1,374 | 0.47 | orchards |
| Aquatic-dependent Birds | 12 | 131 | Piping Plover | Yes | 13 | 1,374 | 0.47 | orchards |
| Aquatic-dependent Birds | 17 | 132 | Western snowy plover | Yes | 45 | 598 | 0.228 | vegetables |
| Aquatic-dependent Birds | 18 | 132 | Western snowy plover | Yes | 118 | 598 | 0.228 | orchards |
| Aquatic Reptiles | 3 | 176 | American crocodile | No | 32 | 895 | 0.228 | vegetables |
| Marine Reptiles | 3 | 176 | American crocodile | No | 32 | 895 | 0.228 | vegetables |
| Aquatic Amphibians | 12 | 194 | San Marcos salamander | No | 1 | 2 | 0.47 | orchards |
| Aquatic Amphibians | 18 | 204 | Arroyo (=arroyo southwestern) toad | Yes | 95 | 1,782 | 0.228 | orchards |
| Aquatic Amphibians | 18 | 205 | California red-legged frog | Yes | 1,673 | 4,693 | 0.228 | orchards |
| Aquatic Amphibians | 13 | 206 | Chiricahua leopard frog | Yes | 27 | 463 | 0.47 | orchards |
| Aquatic Amphibians | 15 | 206 | Chiricahua leopard frog | Yes | 78 | 463 | 0.228 | orchards |
| Aquatic Amphibians | 18 | 207 | Mountain yellow-legged frog | Yes | 2 | 135 | 0.47 | orchards |
| Freshwater Fish | 2 | 212 | Maryland darter | No | 114 | 137 | 0.47 | vegetables |
| Freshwater Fish | 12 | 228 | Fountain darter | No | 11 | 37 | 0.228 | orchards |
| Freshwater Fish | 6 | 235 | Snail darter | Yes | 27 | 74 | 0.228 | vegetables |
| Freshwater Fish | 6 | 237 | Spotfin Chub | Yes | 740 | 1,961 | 0.228 | vegetables |
| Freshwater Fish | 11 | 238 | Leopard darter | Yes | 8 | 1,195 | 0.47 | nurseries |
| Freshwater Fish | 6 | 239 | Slackwater darter | No | 105 | 304 | 0.228 | vegetables |
| Freshwater Fish | 3 | 242 | Cape Fear shiner | No | 88 | 294 | 0.228 | vegetables |
| Freshwater Fish | 3 | 243 | Waccamaw silverside | No | 37 | 81 | 0.47 | vegetables |
| Freshwater Fish | 6 | 246 | Slender chub | Yes | 50 | 1,069 | 0.228 | vegetables |
| Freshwater Fish | 6 | 247 | Yellowfin madtom | Yes | 35 | 661 | 0.228 | orchards |
| Freshwater Fish | 18 | 248 | Little Kern golden trout | No | 36 | 502 | 0.47 | orchards |
| Freshwater Fish | 12 | 250 | San Marcos gambusia | No | 11 | 37 | 0.228 | orchards |
| Freshwater Fish | 13 | 251 | Leon Springs pupfish | Yes | 25 | 25 | 0.47 | orchards |
| Freshwater Fish | 3 | 252 | Alabama sturgeon | No | 871 | 2,251 | 0.228 | orchards |
| Freshwater Fish | 10 | 257 | Niangua darter | Yes | 48 | 1,256 | 0.228 | nurseries |
| Freshwater Fish | 6 | 258 | Smoky madtom | No | 4 | 124 | 0.47 | vegetables |
| Freshwater Fish | 18 | 262 | Owens Tui Chub | Yes | 3 | 120 | 0.47 | orchards |
| Freshwater Fish | 13 | 272 | Devils River minnow | Yes | 45 | 175 | 0.47 | orchards |
| Freshwater Fish | 13 | 279 | Pecos bluntnose shiner | Yes | 167 | 903 | 0.228 | orchards |
| Freshwater Fish | 3 | 286 | Gulf sturgeon | Yes | 709 | 3,446 | 0.228 | vegetables |
| Marine Fish | 3 | 286 | Gulf sturgeon | Yes | 709 | 3,446 | 0.228 | vegetables |
| Freshwater Fish | 8 | 286 | Gulf sturgeon | Yes | 283 | 3,446 | 0.228 | vegetables |
| Marine Fish | 8 | 286 | Gulf sturgeon | Yes | 283 | 3,446 | 0.228 | vegetables |
| Freshwater Fish | 17 | 292 | Warner sucker | Yes | 2 | 767 | 0.47 | vegetables |
| Freshwater Fish | 3 | 293 | Amber darter | Yes | 36 | 264 | 0.228 | orchards |
| Freshwater Fish | 3 | 294 | Conasauga logperch | Yes | 15 | 150 | 0.228 | orchards |
| Freshwater Fish | 11 | 299 | Arkansas River shiner | Yes | 1,126 | 4,651 | 0.228 | vegetables |
| Freshwater Fish | 17 | 301 | Bull Trout | Yes | 13,673 | 99,297 | 0.228 | vegetables |
| Marine Fish | 17 | 301 | Bull Trout | Yes | 13,673 | 99,297 | 0.228 | vegetables |
| Freshwater Fish | 18 | 301 | Bull Trout | Yes | 55 | 99,297 | 0.228 | vegetables |
| Marine Fish | 18 | 301 | Bull Trout | Yes | 55 | 99,297 | 0.228 | vegetables |
| Freshwater Fish | 18 | 305 | Delta smelt | Yes | 1,550 | 6,620 | 0.228 | orchards |
| Marine Fish | 18 | 305 | Delta smelt | Yes | 1,550 | 6,620 | 0.228 | orchards |
| Freshwater Fish | 18 | 306 | Tidewater goby | Yes | 1,595 | 4,433 | 0.228 | orchards |
| Marine Fish | 18 | 306 | Tidewater goby | Yes | 1,595 | 4,433 | 0.228 | orchards |
| Freshwater Fish | 13 | 309 | Rio Grande Silvery Minnow | Yes | 481 | 3,145 | 0.228 | orchards |
| Freshwater Fish | 7 | 311 | Topeka shiner | Yes | 5,210 | 16,853 | 0.228 | vegetables |
| Freshwater Fish | 10 | 311 | Topeka shiner | Yes | 1,887 | 16,853 | 0.228 | vegetables |
| Freshwater Fish | 18 | 312 | Santa Ana sucker | Yes | 48 | 1,295 | 0.228 | nurseries |
| Freshwater Fish | 17 | 314 | White sturgeon | Yes | 61 | 214 | 0.228 | vegetables |
| Freshwater Fish | 3 | 316 | Vermilion darter | No | 8 | 76 | 0.228 | vegetables |
| Mollusks | 6 | 318 | Purple bean | Yes | 365 | 1,695 | 0.044 | vegetables |
| Freshwater Fish | 6 | 344 | Rough rabbitsfoot | Yes | 86 | 1,418 | 0.228 | nurseries |
| Mollusks | 6 | 344 | Rough rabbitsfoot | Yes | 207 | 1,418 | 0.044 | vegetables |
| Marine Fish | 5 | 353 | Cumberlandian combshell | Yes | 22 | 3,005 | 0.228 | nurseries |
| Mollusks | 5 | 353 | Cumberlandian combshell | Yes | 44 | 3,005 | 0.044 | nurseries |
| Marine Fish | 6 | 353 | Cumberlandian combshell | Yes | 186 | 3,005 | 0.228 | vegetables |
| Mollusks | 6 | 353 | Cumberlandian combshell | Yes | 393 | 3,005 | 0.044 | vegetables |
| Freshwater Fish | 6 | 354 | Appalachian elktoe | Yes | 635 | 1,179 | 0.228 | vegetables |
| Mollusks | 6 | 354 | Appalachian elktoe | Yes | 679 | 1,179 | 0.044 | vegetables |
| Mollusks | 5 | 355 | Cumberland elktoe | Yes | 32 | 1,143 | 0.044 | nurseries |
| Mollusks | 3 | 357 | Orangenacre mucket | Yes | 1,761 | 6,421 | 0.044 | vegetables |
| Marine Fish | 5 | 358 | Oyster mussel | Yes | 22 | 3,005 | 0.228 | nurseries |
| Mollusks | 5 | 358 | Oyster mussel | Yes | 44 | 3,005 | 0.044 | nurseries |
| Marine Fish | 6 | 358 | Oyster mussel | Yes | 186 | 3,005 | 0.228 | vegetables |
| Mollusks | 6 | 358 | Oyster mussel | Yes | 393 | 3,005 | 0.044 | vegetables |
| Freshwater Fish | 3 | 365 | Southern acornshell | Yes | 600 | 3,272 | 0.228 | vegetables |
| Mollusks | 3 | 365 | Southern acornshell | Yes | 905 | 3,272 | 0.044 | vegetables |
| Marine Fish | 3 | 366 | Purple bankclimber (mussel) | No | 4,329 | 5,337 | 0.228 | orchards |
| Mollusks | 3 | 366 | Purple bankclimber (mussel) | No | 4,360 | 5,337 | 0.044 | orchards |
| Freshwater Fish | 3 | 367 | Upland combshell | Yes | 817 | 3,876 | 0.228 | vegetables |
| Mollusks | 3 | 367 | Upland combshell | Yes | 1,157 | 3,876 | 0.044 | vegetables |
| Freshwater Fish | 3 | 370 | Carolina heelsplitter | No | 362 | 787 | 0.228 | orchards |
| Mollusks | 3 | 370 | Carolina heelsplitter | No | 415 | 787 | 0.044 | orchards |
| Mollusks | 3 | 371 | Oval pigtoe | No | 5,042 | 6,116 | 0.044 | orchards |
| Mollusks | 3 | 372 | Finelined pocketbook | Yes | 1,576 | 5,139 | 0.044 | vegetables |
| Mollusks | 3 | 373 | Shinyrayed pocketbook | No | 5,211 | 6,043 | 0.044 | orchards |
| Mollusks | 3 | 375 | Fat threeridge (mussel) | No | 1,678 | 2,334 | 0.044 | orchards |
| Freshwater Fish | 3 | 377 | Ovate clubshell | Yes | 1,829 | 9,022 | 0.228 | vegetables |
| Mollusks | 3 | 377 | Ovate clubshell | Yes | 2,600 | 9,022 | 0.044 | vegetables |
| Freshwater Fish | 3 | 378 | Southern clubshell | No | 1,819 | 8,226 | 0.228 | vegetables |
| Mollusks | 3 | 378 | Southern clubshell | No | 2,547 | 8,226 | 0.044 | vegetables |
| Mollusks | 3 | 379 | Triangular Kidneyshell | Yes | 1,384 | 5,153 | 0.044 | vegetables |
| Mollusks | 3 | 380 | Alabama moccasinshell | Yes | 1,826 | 7,285 | 0.044 | vegetables |
| Freshwater Fish | 3 | 381 | Coosa moccasinshell | Yes | 524 | 2,992 | 0.228 | vegetables |
| Mollusks | 3 | 381 | Coosa moccasinshell | Yes | 749 | 2,992 | 0.044 | vegetables |
| Mollusks | 3 | 382 | Dark pigtoe | Yes | 349 | 1,410 | 0.044 | vegetables |
| Freshwater Fish | 3 | 383 | Southern pigtoe | Yes | 524 | 2,992 | 0.228 | vegetables |
| Mollusks | 3 | 383 | Southern pigtoe | Yes | 749 | 2,992 | 0.044 | vegetables |
| Mollusks | 3 | 384 | Gulf moccasinshell | No | 4,470 | 5,159 | 0.044 | orchards |
| Freshwater Fish | 3 | 385 | Ochlockonee moccasinshell | No | 570 | 685 | 0.228 | orchards |
| Mollusks | 3 | 385 | Ochlockonee moccasinshell | No | 572 | 685 | 0.044 | orchards |
| Freshwater Fish | 3 | 386 | Chipola slabshell | No | 663 | 993 | 0.228 | orchards |
| Mollusks | 3 | 386 | Chipola slabshell | No | 680 | 993 | 0.044 | orchards |
| Freshwater Invertebrates | 4 | 445 | Hine's emerald dragonfly | Yes | 46 | 140 | 0.044 | vegetables |
| Freshwater Invertebrates | 7 | 445 | Hine's emerald dragonfly | Yes | 12 | 140 | 0.044 | nurseries |
| Freshwater Invertebrates | 12 | 453 | Comal Springs riffle beetle | No | 6 | 6 | 0.044 | orchards |
| Freshwater Invertebrates | 12 | 454 | Comal Springs dryopid beetle | No | 7 | 7 | 0.044 | nurseries |
| Freshwater Invertebrates | 12 | 477 | Peck's cave amphipod | No | 14 | 14 | 0.044 | orchards |
| Freshwater Invertebrates | 5 | 482 | Kentucky cave shrimp | Yes | 10 | 77 | 0.044 | nurseries |
| Aquatic Plants - vascular | 18 | 580 | Colusa grass | Yes | 332 | 669 | 500 | orchards |
| Aquatic Plants - vascular | 12 | 870 | Texas wild-rice | Yes | 6 | 11 | 500 | orchards |
| Freshwater Invertebrates | 13 | 1247 | Koster's springsnail | Yes | 4 | 7 | 0.044 | orchards |
| Freshwater Invertebrates | 13 | 1261 | Noel's Amphipod | Yes | 4 | 11 | 0.044 | orchards |
| Freshwater Fish | 3 | 1369 | Fuzzy pigtoe | No | 7,351 | 10,655 | 0.228 | orchards |
| Mollusks | 3 | 1369 | Fuzzy pigtoe | No | 7,570 | 10,655 | 0.044 | orchards |
| Freshwater Fish | 17 | 1509 | Chum salmon | Yes | 197 | 633 | 0.228 | vegetables |
| Marine Fish | 17 | 1509 | Chum salmon | Yes | 197 | 633 | 0.228 | vegetables |
| Marine Fish | 5 | 1559 | Fluted kidneyshell | Yes | 63 | 7,265 | 0.228 | nurseries |
| Mollusks | 5 | 1559 | Fluted kidneyshell | Yes | 129 | 7,265 | 0.044 | nurseries |
| Marine Fish | 6 | 1559 | Fluted kidneyshell | Yes | 812 | 7,265 | 0.228 | vegetables |
| Mollusks | 6 | 1559 | Fluted kidneyshell | Yes | 1,392 | 7,265 | 0.044 | vegetables |
| Aquatic Amphibians | 18 | 1740 | Mountain yellow-legged frog | Yes | 9 | 459 | 0.47 | orchards |
| Freshwater Fish | 6 | 1934 | Spotfin Chub | No | 740 | 1,961 | 0.228 | vegetables |
| Freshwater Fish | 18 | 2448 | Steelhead | No | 534 | 6,006 | 0.228 | orchards |
| Marine Fish | 18 | 2448 | Steelhead | No | 534 | 6,006 | 0.228 | orchards |
| Freshwater Fish | 18 | 2514 | Chinook salmon | Yes | 1,090 | 1,845 | 0.228 | orchards |
| Marine Fish | 18 | 2514 | Chinook salmon | Yes | 1,090 | 1,845 | 0.228 | orchards |
| Freshwater Fish | 17 | 2528 | Steelhead | Yes | 1,086 | 1,826 | 0.228 | orchards |
| Marine Fish | 17 | 2528 | Steelhead | Yes | 1,086 | 1,826 | 0.228 | orchards |
| Freshwater Invertebrates | 3 | 2561 | Interrupted (=Georgia) Rocksnail | Yes | 208 | 798 | 0.044 | orchards |
| Freshwater Fish | 18 | 2842 | Steelhead | Yes | 1,292 | 2,266 | 0.228 | orchards |
| Marine Fish | 18 | 2842 | Steelhead | Yes | 1,292 | 2,266 | 0.228 | orchards |
| Freshwater Invertebrates | 3 | 3364 | Rough hornsnail | Yes | 192 | 482 | 0.044 | orchards |
| Freshwater Fish | 3 | 3525 | Rush Darter | Yes | 87 | 314 | 0.228 | vegetables |
| Freshwater Fish | 12 | 3596 | Sharpnose Shiner | Yes | 872 | 2,498 | 0.228 | orchards |
| Mollusks | 4 | 3645 | Rabbitsfoot | Yes | 40 | 12,472 | 0.044 | vegetables |
| Mollusks | 5 | 3645 | Rabbitsfoot | Yes | 626 | 12,472 | 0.044 | orchards |
| Mollusks | 6 | 3645 | Rabbitsfoot | Yes | 544 | 12,472 | 0.044 | vegetables |
| Mollusks | 8 | 3645 | Rabbitsfoot | Yes | 482 | 12,472 | 0.044 | orchards |
| Mollusks | 11 | 3645 | Rabbitsfoot | Yes | 546 | 12,472 | 0.044 | orchards |
| Freshwater Fish | 18 | 3654 | Steelhead | No | 1,497 | 2,390 | 0.228 | orchards |
| Marine Fish | 18 | 3654 | Steelhead | No | 1,497 | 2,390 | 0.228 | orchards |
| Freshwater Fish | 3 | 3833 | Georgia pigtoe | Yes | 92 | 725 | 0.228 | vegetables |
| Mollusks | 3 | 3833 | Georgia pigtoe | Yes | 149 | 725 | 0.044 | vegetables |
| Freshwater Fish | 3 | 4042 | Choctaw bean | No | 7,351 | 10,655 | 0.228 | orchards |
| Mollusks | 3 | 4042 | Choctaw bean | No | 7,570 | 10,655 | 0.044 | orchards |
| Mollusks | 11 | 4086 | Neosho Mucket | Yes | 514 | 4,005 | 0.044 | vegetables |
| Freshwater Fish | 18 | 4093 | green sturgeon | Yes | 141 | 440 | 0.228 | orchards |
| Marine Fish | 18 | 4093 | green sturgeon | Yes | 141 | 440 | 0.228 | orchards |
| Freshwater Fish | 17 | 4112 | Steelhead | No | 1,458 | 2,340 | 0.228 | orchards |
| Marine Fish | 17 | 4112 | Steelhead | No | 1,458 | 2,340 | 0.228 | orchards |
| Freshwater Fish | 3 | 4210 | Altamaha Spinymussel | No | 473 | 548 | 0.228 | orchards |
| Mollusks | 3 | 4210 | Altamaha Spinymussel | No | 474 | 548 | 0.044 | orchards |
| Freshwater Fish | 18 | 4274 | Steelhead | Yes | 2,165 | 3,684 | 0.228 | orchards |
| Marine Fish | 18 | 4274 | Steelhead | Yes | 2,165 | 3,684 | 0.228 | orchards |
| Freshwater Fish | 3 | 4411 | Alabama pearlshell | No | 552 | 1,210 | 0.228 | orchards |
| Mollusks | 3 | 4411 | Alabama pearlshell | No | 635 | 1,210 | 0.044 | orchards |
| Freshwater Invertebrates | 13 | 4437 | Diamond Tryonia | Yes | 25 | 25 | 3700 | orchards |
| Freshwater Fish | 17 | 4799 | Chinook salmon | Yes | 2,161 | 5,742 | 0.228 | vegetables |
| Marine Fish | 17 | 4799 | Chinook salmon | Yes | 2,161 | 5,742 | 0.228 | vegetables |
| Freshwater Fish | 3 | 4881 | Smalltooth sawfish | No | 513 | 2,398 | 0.228 | orchards |
| Marine Fish | 3 | 4881 | Smalltooth sawfish | No | 513 | 2,398 | 0.228 | orchards |
| Freshwater Invertebrates | 10 | 4910 | Salt Creek Tiger beetle | No | 41 | 53 | 0.044 | vegetables |
| Freshwater Fish | 18 | 4992 | Chinook salmon | No | 453 | 3,053 | 0.228 | orchards |
| Marine Fish | 18 | 4992 | Chinook salmon | No | 453 | 3,053 | 0.228 | orchards |
| Freshwater Fish | 17 | 5180 | Chum salmon | Yes | 506 | 993 | 0.228 | vegetables |
| Marine Fish | 17 | 5180 | Chum salmon | Yes | 506 | 993 | 0.228 | vegetables |
| Freshwater Fish | 17 | 5265 | Coho salmon | No | 1,669 | 6,957 | 0.228 | vegetables |
| Marine Fish | 17 | 5265 | Coho salmon | No | 1,669 | 6,957 | 0.228 | vegetables |
| Freshwater Invertebrates | 13 | 5362 | Gonzales tryonia | Yes | 25 | 25 | 3700 | orchards |
| Aquatic Amphibians | 12 | 5434 | Georgetown Salamander | No | 14 | 21 | 0.47 | orchards |
| Freshwater Fish | 18 | 5658 | Steelhead | Yes | 620 | 1,558 | 0.228 | orchards |
| Marine Fish | 18 | 5658 | Steelhead | Yes | 620 | 1,558 | 0.228 | orchards |
| Freshwater Fish | 5 | 5719 | Cumberland darter | Yes | 9 | 336 | 0.47 | nurseries |
| Freshwater Fish | 17 | 5815 | Steelhead | Yes | 2,853 | 11,562 | 0.228 | vegetables |
| Marine Fish | 17 | 5815 | Steelhead | Yes | 2,853 | 11,562 | 0.228 | vegetables |
| Freshwater Fish | 6 | 5981 | Smoky madtom | No | 4 | 124 | 0.47 | vegetables |
| Freshwater Fish | 17 | 6220 | Steelhead | Yes | 1,168 | 3,712 | 0.228 | vegetables |
| Marine Fish | 17 | 6220 | Steelhead | Yes | 1,168 | 3,712 | 0.228 | vegetables |
| Aquatic Amphibians | 12 | 6346 | Austin blind Salamander | No | 3 | 3 | 0.228 | nurseries |
| Freshwater Fish | 3 | 6534 | Tapered pigtoe | No | 3,680 | 5,040 | 0.228 | orchards |
| Mollusks | 3 | 6534 | Tapered pigtoe | No | 3,731 | 5,040 | 0.044 | orchards |
| Freshwater Fish | 5 | 6557 | diamond Darter | No | 13 | 498 | 0.47 | nurseries |
| Freshwater Invertebrates | 13 | 6596 | Pecos amphipod | Yes | 25 | 25 | 3700 | orchards |
| Freshwater Fish | 11 | 6662 | Yellowcheek Darter | No | 7 | 857 | 0.47 | vegetables |
| Mollusks | 6 | 6841 | Slabside Pearlymussel | Yes | 1,568 | 6,037 | 0.044 | vegetables |
| Freshwater Fish | 17 | 6843 | Sockeye salmon | No | 49 | 75 | 0.228 | vegetables |
| Marine Fish | 17 | 6843 | Sockeye salmon | No | 49 | 75 | 0.228 | vegetables |
| Freshwater Fish | 6 | 7150 | Chucky Madtom | No | 48 | 76 | 0.228 | vegetables |
| Freshwater Fish | 3 | 7177 | Narrow pigtoe | No | 3,696 | 5,643 | 0.228 | orchards |
| Mollusks | 3 | 7177 | Narrow pigtoe | No | 3,864 | 5,643 | 0.044 | orchards |
| Freshwater Fish | 3 | 7349 | Southern sandshell | No | 7,351 | 10,655 | 0.228 | orchards |
| Mollusks | 3 | 7349 | Southern sandshell | No | 7,570 | 10,655 | 0.044 | orchards |
| Freshwater Fish | 3 | 7363 | Round Ebonyshell | No | 1,631 | 2,835 | 0.228 | orchards |
| Mollusks | 3 | 7363 | Round Ebonyshell | No | 1,743 | 2,835 | 0.044 | orchards |
| Freshwater Fish | 17 | 7590 | Chinook salmon | Yes | 708 | 1,283 | 0.228 | orchards |
| Marine Fish | 17 | 7590 | Chinook salmon | Yes | 708 | 1,283 | 0.228 | orchards |
| Freshwater Fish | 12 | 7670 | Smalleye Shiner | Yes | 872 | 2,498 | 0.228 | orchards |
| Freshwater Fish | 17 | 7834 | Chinook salmon | Yes | 912 | 2,145 | 0.228 | vegetables |
| Marine Fish | 17 | 7834 | Chinook salmon | Yes | 912 | 2,145 | 0.228 | vegetables |
| Freshwater Fish | 3 | 7949 | Southern kidneyshell | No | 6,352 | 9,283 | 0.228 | orchards |
| Mollusks | 3 | 7949 | Southern kidneyshell | No | 6,547 | 9,283 | 0.044 | orchards |
| Freshwater Fish | 17 | 7989 | Steelhead | Yes | 3,173 | 16,519 | 0.228 | vegetables |
| Marine Fish | 17 | 7989 | Steelhead | Yes | 3,173 | 16,519 | 0.228 | vegetables |
| Aquatic Amphibians | 12 | 8231 | Jollyville Plateau Salamander | No | 8 | 40 | 0.47 | nurseries |
| Freshwater Fish | 17 | 8241 | Chinook salmon | No | 1,175 | 2,850 | 0.228 | vegetables |
| Marine Fish | 17 | 8241 | Chinook salmon | No | 1,175 | 2,850 | 0.228 | vegetables |
| Freshwater Fish | 6 | 9061 | Spotfin Chub | No | 740 | 1,961 | 0.228 | vegetables |
| Freshwater Fish | 6 | 9220 | Laurel dace | Yes | 163 | 326 | 0.228 | vegetables |
| Freshwater Fish | 6 | 9504 | Slender chub | No | 50 | 1,069 | 0.228 | vegetables |
| Freshwater Fish | 1 | 10077 | Atlantic salmon | No | 8,443 | 10,424 | 0.228 | vegetables |
| Marine Fish | 1 | 10077 | Atlantic salmon | No | 8,443 | 10,424 | 0.228 | vegetables |
| Freshwater Fish | 17 | 10150 | Eulachon | Yes | 303 | 480 | 0.228 | vegetables |
| Marine Fish | 17 | 10150 | Eulachon | Yes | 303 | 480 | 0.228 | vegetables |
| Freshwater Fish | 18 | 10150 | Eulachon | Yes | 6 | 480 | 0.47 | orchards |
| Marine Fish | 18 | 10150 | Eulachon | Yes | 6 | 480 | 0.47 | orchards |

1. See footnotes for Table 3-5.2 for column header definitions and threshold values.

**Table B 3-5.4. Species where downstream dilution concentrations were below all thresholds**

| Entity ID | Relevant HUC2s | ESA Taxa | Species Common Name |
| --- | --- | --- | --- |
| Range | | | |
| 69 | 20 | Aquatic-dependent Birds | Hawaiian (=koloa) Duck |
| 70 | 20 | Aquatic-dependent Birds | Laysan duck |
| 76 | 20 | Aquatic-dependent Birds | Hawaiian common gallinule |
| 84 | 15, 18 | Aquatic-dependent Birds | Yuma clapper rail |
| 108 | 20 | Aquatic-dependent Birds | Hawaiian coot |
| 147 | 19 | Aquatic-dependent Birds | Steller's Eider |
| 196 | 21 | Aquatic Amphibians | Guajon |
| 210 | 16, 18 | Freshwater Fish | Cui-ui |
| 211 | 15 | Freshwater Fish | Moapa dace |
| 220 | 14, 15 | Freshwater Fish | Apache trout |
| 223 | 16 | Freshwater Fish | Paiute cutthroat trout |
| 226 | 15 | Freshwater Fish | Pahranagat roundtail chub |
| 227 | 14, 17 | Freshwater Fish | Kendall Warm Springs dace |
| 231 | 18 | Freshwater Fish | Warm Springs pupfish |
| 233 | 15, 16, 17 | Freshwater Fish | Lahontan cutthroat trout |
| 234 | 15, 16 | Freshwater Fish | Woundfin |
| 255 | 15 | Freshwater Fish | Sonora chub |
| 256 | 14, 15, 16 | Freshwater Fish | Virgin River Chub |
| 259 | 15 | Freshwater Fish | Yaqui catfish |
| 263 | 15 | Freshwater Fish | Yaqui chub |
| 264 | 18 | Freshwater Fish | Ash Meadows speckled dace |
| 265 | 16 | Freshwater Fish | Clover Valley speckled dace |
| 266 | 16 | Freshwater Fish | Desert dace |
| 268 | 16 | Freshwater Fish | Independence Valley speckled dace |
| 274 | 18 | Freshwater Fish | Ash Meadows Amargosa pupfish |
| 275 | 15, 18 | Freshwater Fish | Desert pupfish |
| 280 | 15 | Freshwater Fish | Big Spring spinedace |
| 281 | 15 | Freshwater Fish | Little Colorado spinedace |
| 282 | 15, 16 | Freshwater Fish | White River spinedace |
| 283 | 15, 16 | Freshwater Fish | Hiko White River springfish |
| 284 | 15, 16 | Freshwater Fish | Railroad Valley springfish |
| 285 | 15 | Freshwater Fish | White River springfish |
| 287 | 14, 16 | Freshwater Fish | June sucker |
| 401 | 5, 6 | Freshwater Invertebrates | Royal marstonia (snail) |
| 418 | 20 | Freshwater Invertebrates | Newcomb's snail |
| 439 | 18 | Freshwater Invertebrates | Ash Meadows naucorid |
| 1245 | 12, 13 | Freshwater Invertebrates | Pecos assiminea snail |
| 1246 | 12, 13 | Freshwater Invertebrates | Roswell springsnail |
| 1361 | 20 | Freshwater Invertebrates | Blackline Hawaiian damselfly |
| 1380 | 15 | Freshwater Invertebrates | San Bernardino springsnail |
| 1707 | 16, 18 | Aquatic Amphibians | Yosemite toad |
| 2142 | 15 | Freshwater Fish | Colorado pikeminnow (=squawfish) |
| 2144 | 20 | Freshwater Invertebrates | Flying earwig Hawaiian damselfly |
| 2514 | 18 | Freshwater Fish | Chinook salmon |
| 2599 | 15 | Freshwater Fish | Woundfin |
| 2767 | 15 | Freshwater Invertebrates | Stephan's Riffle beetle |
| 3628 | 15, 16 | Aquatic Amphibians | Relict leopard Frog |
| 4274 | 18 | Freshwater Fish | Steelhead |
| 4326 | 20 | Freshwater Invertebrates | Crimson Hawaiian damselfly |
| 4766 | 15 | Freshwater Invertebrates | Three Forks Springsnail |
| 5232 | 19 | Freshwater Mammals | Northern Sea Otter |
| 6231 | 20 | Freshwater Invertebrates | Oceanic Hawaiian damselfly |
| 6620 | 15 | Aquatic Reptiles | Sonoyta mud turtle |
| 6654 | 19 | Aquatic-dependent Mammals | Wood Bison |
| 6739 | 15 | Freshwater Invertebrates | Huachuca springsnail |
| 8861 | 19 | Aquatic-dependent Mammals | Polar bear |
| 8962 | 20 | Aquatic-dependent Mammals | Mariana fruit Bat (=Mariana flying fox) |
| 9694 | 15 | Aquatic Amphibians | Arizona Treefrog |
| 10517 | 16, 18 | Aquatic Amphibians | Sierra Nevada Yellow-legged Frog |
| 11191 | 1, 8, 13, 20 | Aquatic Reptiles | Green sea turtle |
| FWS001 | 19 | Aquatic-dependent Mammals | Wood Bison |
| NMFS166 | 3, 8, 12 | Freshwater Fish | Shad Alabama |
| NMFS175 | 20 | Marine Fish | Shark oceanic whitetip |
| Critical Habitat | | | |
| 58 | 18 | Aquatic-dependent Mammals | Buena Vista Lake ornate Shrew |
| 147 | 19 | Aquatic-dependent Birds | Steller's Eider |
| 196 | 21 | Aquatic Amphibians | Guajon |
| 209 | 10, 11, 13, 14, 15, 16, 17 | Freshwater Fish | Humpback chub |
| 215 | 10, 11, 13, 14, 16, 17 | Freshwater Fish | Colorado pikeminnow (=squawfish) |
| 234 | 15, 16 | Freshwater Fish | Woundfin |
| 249 | 10, 11, 13, 14, 15, 16, 17, 18 | Freshwater Fish | Bonytail chub |
| 255 | 15 | Freshwater Fish | Sonora chub |
| 256 | 14, 15, 16 | Freshwater Fish | Virgin River Chub |
| 259 | 15 | Freshwater Fish | Yaqui catfish |
| 263 | 15 | Freshwater Fish | Yaqui chub |
| 264 | 18 | Freshwater Fish | Ash Meadows speckled dace |
| 266 | 16 | Freshwater Fish | Desert dace |
| 273 | 13, 15 | Freshwater Fish | Loach minnow |
| 274 | 18 | Freshwater Fish | Ash Meadows Amargosa pupfish |
| 275 | 15, 18 | Freshwater Fish | Desert pupfish |
| 276 | 13, 15 | Freshwater Fish | Beautiful shiner |
| 280 | 15 | Freshwater Fish | Big Spring spinedace |
| 281 | 15 | Freshwater Fish | Little Colorado spinedace |
| 282 | 15, 16 | Freshwater Fish | White River spinedace |
| 283 | 15, 16 | Freshwater Fish | Hiko White River springfish |
| 284 | 15, 16 | Freshwater Fish | Railroad Valley springfish |
| 285 | 15 | Freshwater Fish | White River springfish |
| 287 | 14, 16 | Freshwater Fish | June sucker |
| 290 | 10, 11, 13, 14, 15, 16, 17, 18 | Freshwater Fish | Razorback sucker |
| 296 | 13, 15 | Freshwater Fish | Spikedace |
| 406 | 11 | Freshwater Invertebrates | Tumbling Creek cavesnail |
| 418 | 20 | Freshwater Invertebrates | Newcomb's snail |
| 435 | 18 | Freshwater Invertebrates | Delta green ground beetle |
| 439 | 18 | Freshwater Invertebrates | Ash Meadows naucorid |
| 1245 | 12, 13 | Freshwater Invertebrates | Pecos assiminea snail |
| 1246 | 12, 13 | Freshwater Invertebrates | Roswell springsnail |
| 1361 | 20 | Freshwater Invertebrates | Blackline Hawaiian damselfly |
| 1380 | 15 | Freshwater Invertebrates | San Bernardino springsnail |
| 1707 | 16, 18 | Aquatic Amphibians | Yosemite toad |
| 1783 | 13, 14, 15 | Aquatic Reptiles | Northern Mexican gartersnake |
| 3271 | 13, 15 | Aquatic Reptiles | Narrow-headed gartersnake |
| 3280 | 13, 14, 15 | Freshwater Fish | Zuni bluehead Sucker |
| 4162 | 13 | Freshwater Invertebrates | Chupadera springsnail |
| 4326 | 20 | Freshwater Invertebrates | Crimson Hawaiian damselfly |
| 4479 | 13 | Freshwater Invertebrates | Phantom Springsnail |
| 4766 | 15 | Freshwater Invertebrates | Three Forks Springsnail |
| 5232 | 19 | Freshwater Mammals | Northern Sea Otter |
| 6138 | 13 | Freshwater Invertebrates | Phantom Tryonia |
| 6231 | 20 | Freshwater Invertebrates | Oceanic Hawaiian damselfly |
| 6297 | 13, 15 | Freshwater Fish | Gila chub |
| 7610 | 12 | Aquatic Amphibians | Salado Salamander |
| 8172 | 13 | Freshwater Invertebrates | Diminutive Amphipod |
| 8962 | 20 | Aquatic-dependent Mammals | Mariana fruit Bat (=Mariana flying fox) |
| 10517 | 16, 18 | Aquatic Amphibians | Sierra Nevada Yellow-legged Frog |
| 11192 | 1, 8, 13, 18, 20 | Aquatic Reptiles | Green sea turtle |