

APPENDIX F

AQUATIC SPECIES VIABILITY

This Appendix contains the aquatic species viability table referenced in chapter 3 of the Environmental Impact Statement. All PETS aquatic species that are known to occur on the Chattahoochee-Oconee National Forests are listed for each 5th level HUC of occurrence. Watershed condition ranking (WCR) and associated stressors were assessed for each species in each 5th level HUC. This 5th level watershed analysis is a coarse filter of watershed condition from impacts on private and public lands. The coarse filter of watershed condition at the 5th level allows the Forest Service to examine conditions throughout the entire watershed in order to understand the overall status of aquatic PETS species.

TABLE F-1: KEY TO VARIABLES

VIABILITY OUTCOME

Code	Description
1	Species occurs within watersheds with no impairment. Likelihood of maintaining viability is high.
2	Species is potentially at risk in the watershed; however, Forest Service may influence habitat conditions on public lands which will keep it well distributed where its associated habitat occurs on Forest Service lands. Therefore, likelihood of maintaining viability is moderate.
3	Species is potentially at risk within the watershed; however, Forest Service opportunity to affect outcomes for the species in the watershed is limited. PETS species within this outcome are off forest lands. Therefore species viability in the watershed may be at risk.
4	The species is so rare within the watershed (population is at very low density and/or at only a few local sites) that stochastic events (accidents, weather events, etc.) may place persistence of the species within the watershed at risk. Forest Service may influence conditions in the watershed to keep the species relatively secure. Therefore, likelihood of maintaining viability is moderate to low.

- 5 The species is so rare within the watershed (population is at very low density and/or at only a few local sites) that stochastic events (accidents, weather events, etc.) may place persistence of the species within the watershed at risk. Forest Service ability to influence the species is limited. Therefore species viability in the watershed may be at risk.

WATERSHED CONDITION RANKING

Code	Description
E	Excellent
A	Average
BA	Below Average

STRESSORS

Code	Description
S	Sedimentation
P	Point-source pollution
T	Alterations in water temperature
F	Alterations in stream flow
X	Absence of stressors

Table F-1. Aquatic Species Viability

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome					Comments
					1	2	3	4	5	
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	306010201	42.84	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	306010207	55	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	306010206	25.59	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	306010401	12.1	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010106	4.09	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010107	19.73	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010109	4.25	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010111	0.59	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010110	0.01	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010114	0.74	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010115	28.03	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010116	11.15	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010117	15.79	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome					Comments
					1	2	3	4	5	
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	307010310	11.78	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	313000101	40.11	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	313000102	17.22	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	313000106	19.2	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010101	40.98	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010102	19.57	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010103	1.66	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010203	29.04	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010303	37.73	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010304	15.44	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010401	23.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010504	1.47	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010505	3.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	601020201	21.34	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome					Comments
					1	2	3	4	5	
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	602000109	3.96	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	602000201	39.63	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	602000204	18.93	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	602000208	35.75	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	602000301	68.41	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010105	7.51	E	P					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010301	10.83	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010201	17.86	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010305	24.23	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010104	26.65	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010202	21.98	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	315010204	2.42	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Appalachian snaketail	<i>Ophiogomphus incurvatus</i>	602000302	18	BA		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010103	1.66	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome					Comments
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Cherokee clubtail	<i>Gomphus consanguis</i>	315010203	29.04	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010303	37.73	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010304	15.44	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010401	23.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010402	7.05	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010504	1.47	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010505	3.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010101	40.98	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010102	19.57	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010301	10.83	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010201	17.86	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010305	24.23	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010104	26.65	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Cherokee clubtail	<i>Gomphus consanguis</i>	315010105	7.51	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

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Cherokee clubtail	<i>Gomphus consanguis</i>	315010204	2.42	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	313000101	40.11	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	313000102	17.22	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	313000106	19.2	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010101	40.98	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010102	19.57	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010103	1.66	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010203	29.04	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010304	15.44	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010401	23.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010402	7.05	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010504	1.47	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010505	3.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

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Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010105	7.51	E	P					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010301	10.83	E	P					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010303	37.73	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010201	17.86	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010305	24.23	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010104	26.65	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010202	21.98	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Edmund's snaketail	<i>Ophiogomphus edmundo</i>	315010204	2.42	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	306010201	42.84	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	306010207	55	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	306010206	25.59	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	306010401	12.1	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010101	40.98	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010102	19.57	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

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					1	2	3	4	5	
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010103	1.66	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010301	10.83	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010303	37.73	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010304	15.44	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010401	23.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010402	7.05	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010504	1.47	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010505	3.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010105	7.51	E	P					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010305	8.51	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010201	17.86	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010203	21.98	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010104	26.65	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010202	21.98	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

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					1	2	3	4	5	
Georgia beloneurian stonefly	<i>Beloneuria georgiana</i>	315010204	2.42	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	306010201	42.84	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	306010207	55	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	306010206	25.59	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	306010401	12.1	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	307010106	4.09	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	307010107	19.73	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	307010109	4.25	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	307010111	0.59	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	307010110	0.01	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	307010114	0.74	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	307010115	28.03	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	307010116	11.15	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	307010117	15.79	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

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					1	2	3	4	5	
Mountain river cruiser	<i>Macromia margarita</i>	307010310	11.78	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	313000101	40.11	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	313000102	17.22	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	313000106	19.2	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010101	40.98	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010102	19.57	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010103	1.66	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010301	10.83	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010304	15.44	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010401	23.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010402	7.05	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010504	1.47	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010505	3.37	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	601020201	21.34	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome					Comments
					1	2	3	4	5	
Mountain river cruiser	<i>Macromia margarita</i>	602000109	3.96	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	602000201	39.63	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	602000204	18.93	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	602000208	35.75	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	602000301	68.41	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010105	7.51	E	P					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010203	29.04	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010303	37.73	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010305	24.23	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010201	17.86	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010104	26.65	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010202	21.98	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	315010204	2.42	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain river cruiser	<i>Macromia margarita</i>	602000302	18	BA		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome					Comments
					1	2	3	4	5	
A crayfish	<i>Cambarus cymatilis</i>	315010101	40.98	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
A crayfish	<i>Cambarus cymatilis</i>	315010102	19.57	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
A crayfish	<i>Cambarus cymatilis</i>	315010104	26.65	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Crayfish	<i>Cambarus chaugaensis</i>	306010201	42.84	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Crayfish	<i>Cambarus conasaugaensis</i>	315010402	7.05	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Chickamauga crayfish	<i>Cambarus extraneus</i>	602000109	3.96	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Hiwassee Headwaters crayfish	<i>Cambarus parrishi</i>	602000201	39.63	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Little Tennessee River crayfish	<i>Cambarus georgiae</i>	601020201	21.34	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Fine-lined pocketbook	<i>Lampsilis altilis</i>	315010101	40.98	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Fine-lined pocketbook	<i>Lampsilis altilis</i>	315010102	19.57	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Fine-lined pocketbook	<i>Lampsilis altilis</i>	315010105	7.51	E	P					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Fine-lined pocketbook	<i>Lampsilis altilis</i>	315010104	26.65	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Fine-lined pocketbook	<i>Lampsilis altilis</i>	315010103	1.66	E					X	OFF, Forest Service only known from historical records prior to 1969.
Upland combshell	<i>Epioblasma metastrata</i>	315010101	40.98	E					X	OFF, Forest Service only known from historical records, undocumented collection.
Upland combshell	<i>Epioblasma metastrata</i>	315010102	19.57	E					X	OFF, Forest Service only known from historical records prior to 1969.
Upland combshell	<i>Epioblasma metastrata</i>	315010105	7.51	E					P	OFF, Forest Service only known from historical records prior to 1969.
Southern acornshell	<i>Epioblasma othcaloogensis</i>	315010101	40.98	E					X	OFF, Forest Service only known from historical records prior to 1969.
Southern acornshell	<i>Epioblasma othcaloogensis</i>	315010102	19.57	E					X	OFF, Forest Service only known from historical records prior to 1969.

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome					Comments
					1	2	3	4	5	
Alabama moccasinshell	<i>Medionidus acutissimus</i>	315010101	40.98	E					X	OFF, Forest Service only known from historical records prior to 1997.
Alabama moccasinshell	<i>Medionidus acutissimus</i>	315010104	26.65	A					S	OFF, Found no where else in Coosa watershed
Coosa moccasinshell	<i>Medionidus parvulus</i>	315010101	40.98	E					X	OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Coosa moccasinshell	<i>Medionidus parvulus</i>	315010102	19.57	E					X	OFF, Forest Service only known from historical records prior to 1997.
Coosa moccasinshell	<i>Medionidus parvulus</i>	315010105	7.51	E					P	OFF, Forest Service only known from historical records prior to 1929.
Coosa moccasinshell	<i>Medionidus parvulus</i>	315010104	26.65	A					S	OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Southern clubshell	<i>Pleurobema decisum</i>	315010102	19.57	E					X	OFF, Forest Service only known from historical records prior to 1997.
Southern clubshell	<i>Pleurobema decisum</i>	315010105	7.51	E					P	OFF, Forest Service only known from historical records prior to 1989.
Southern clubshell	<i>Pleurobema decisum</i>	315010104	26.65	A					S	OFF, Forest Service only known from historical records prior to 1989.
Southern pigtoe	<i>Pleurobema georgianum</i>	315010101	40.98	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Southern pigtoe	<i>Pleurobema georgianum</i>	315010102	19.57	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Southern pigtoe	<i>Pleurobema georgianum</i>	315010105	7.51	E					P	OFF, Forest Service only known from historical records prior to 1989.
Southern pigtoe	<i>Pleurobema georgianum</i>	315010104	26.65	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Georgia pigtoe	<i>Pleurobema hanleyianum</i>	315010101	40.98	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Georgia pigtoe	<i>Pleurobema hanleyianum</i>	315010102	19.57	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Ovate Clubshell	<i>Pleurobema pervatum</i>	315010101	40.98	E					X	OFF, Forest Service only known from historical records prior to 1997.
Ovate Clubshell	<i>Pleurobema pervatum</i>	315010102	19.57	E					X	OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Triangular kidneyshell	<i>Ptychobranthus greeni</i>	315010101	40.98	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Triangular kidneyshell	<i>Ptychobranthus greeni</i>	315010102	19.57	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Triangular kidneyshell	<i>Ptychobranthus greeni</i>	315010105	7.51	E					P	OFF, Forest Service only known from historical records prior to 1989.

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome				Comments
					1	2	3	4	
Triangular kidneyshell	<i>Ptychobranchus greeni</i>	315010104	26.65	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Inflated floater	<i>Pyganodon gibbosa</i>	307010106	4.09	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Inflated floater	<i>Pyganodon gibbosa</i>	307010107	19.73	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Ridged mapleleaf	<i>Quadrula rumphiana</i>	315010102	19.57	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Ridged mapleleaf	<i>Quadrula rumphiana</i>	315010105	7.51	E				P	OFF, Forest Service only known from historical records prior to 1989.
Ridged mapleleaf	<i>Quadrula rumphiana</i>	315010104	26.65	A				S	OFF, Forest Service only known from historical records prior to 1989.
Ridged mapleleaf	<i>Quadrula rumphiana</i>	315010103	1.66	E				X	OFF, Forest Service only known from historical records prior to 1989.
Alabama creekmussel	<i>Strophitus connasaugaensis</i>	315010101	40.98	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Alabama creekmussel	<i>Strophitus connasaugaensis</i>	315010102	19.57	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Alabama creekmussel	<i>Strophitus connasaugaensis</i>	315010105	7.51	E				P	OFF, Forest Service only known from historical records prior to 1929.
Alabama creekmussel	<i>Strophitus connasaugaensis</i>	315010104	26.65	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Alabama creekmussel	<i>Strophitus connasaugaensis</i>	315010103	1.66	E				X	OFF, Forest Service only known from historical records prior to 1989.
Alabama rainbow	<i>Villosa nebulosa</i>	315010101	40.98	E				X	ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Alabama rainbow	<i>Villosa nebulosa</i>	315010305	24.23	E				X	ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Alabama rainbow	<i>Villosa nebulosa</i>	315010103	1.66	E				X	OFF, Forest Service only known from historical records prior to 1989.
Alabama rainbow	<i>Villosa nebulosa</i>	315010104	26.65	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Alabama rainbow	<i>Villosa nebulosa</i>	315010102	19.57	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Tennessee Heelsplitter	<i>Lasmigona holstonia</i>	315010102	19.57	E				X	OFF, Forest Service only known from historical records prior to 1997.
Tennessee Heelsplitter	<i>Lasmigona holstonia</i>	315010105	7.51	E				P	Only known from historical records prior to 1989.

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome				Comments
					1	2	3	4	
Tennessee heelsplitter	<i>Lasmigona holstonia</i>	315010305	24.23	E				X	OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Tennessee heelsplitter	<i>Lasmigona holstonia</i>	315010104	26.65	A				S	Only known from historical records prior to 1969.
Tennessee heelsplitter	<i>Lasmigona holstonia</i>	315010103	1.66	E				X	Only known from historical records prior to 1989.
Brook floater	<i>Alasmidonta varicosa</i>	306010201	42.84	A		S			ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Blue shiner	<i>Cyprinella caerulea</i>	315010101	40.98	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
blue shiner	<i>Cyprinella caerulea</i>	315010102	19.57	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
blue shiner	<i>Cyprinella caerulea</i>	315010204	2.42	A		S			ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
blue shiner	<i>Cyprinella caerulea</i>	315010104	26.65	A		S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
amber darter	<i>Percina antesella</i>	315010101	40.98	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
amber darter	<i>Percina antesella</i>	315010102	19.57	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
amber darter	<i>Percina antesella</i>	315010401	23.37	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Etowah darter	<i>Etheostoma etowahae</i>	315010401	23.37	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Etowah darter	<i>Etheostoma etowahae</i>	315010402	7.05	A		S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Cherokee darter	<i>Etheostoma scotti</i>	315010401	23.37	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Cherokee darter	<i>Etheostoma scotti</i>	315010402	7.05	A		S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
goldline darter	<i>Percina aurolineata</i>	315010201	17.86	A		S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
goldline darter	<i>Percina aurolineata</i>	315010202	21.98	A		S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
goldline darter	<i>Percina aurolineata</i>	315010203	29.04	A		S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
goldline darter	<i>Percina aurolineata</i>	315010204	2.42	A		S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome					Comments
					1	2	3	4	5	
Consauga logperch	<i>Percina jenkinsi</i>	315010101	40.98	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Consauga logperch	<i>Percina jenkinsi</i>	315010102	19.57	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010106	4.09	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010107	19.73	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010109	4.25	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010111	0.59	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010110	0.01	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010114	0.74	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010115	28.03	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010116	11.15	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010117	15.79	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010310	11.78	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Ocmulgee shiner	<i>Cyprinella callisema</i>	307010313	12.79	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Bluestripe shiner	<i>Cyprinella callitaenia</i>	313000101	40.11	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Bluestripe shiner	<i>Cyprinella callitaenia</i>	313000102	17.22	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Bluestripe shiner	<i>Cyprinella callitaenia</i>	313000105	31.64	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Bluestripe shiner	<i>Cyprinella callitaenia</i>	313000106	19.2	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome				Comments
					1	2	3	4	
Altamaha shiner	<i>Cyprinella xaenura</i>	307010106	4.09	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Altamaha shiner	<i>Cyprinella xaenura</i>	307010107	19.73	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Altamaha shiner	<i>Cyprinella xaenura</i>	307010109	4.25	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Altamaha shiner	<i>Cyprinella xaenura</i>	307010111	0.59	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Altamaha shiner	<i>Cyprinella xaenura</i>	307010110	0.01	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Altamaha shiner	<i>Cyprinella xaenura</i>	307010114	0.74	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Altamaha shiner	<i>Cyprinella xaenura</i>	307010115	28.03	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Altamaha shiner	<i>Cyprinella xaenura</i>	307010116	11.15	A		S			ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Altamaha shiner	<i>Cyprinella xaenura</i>	307010117	15.79	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Altamaha shiner	<i>Cyprinella xaenura</i>	307010310	11.78	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Altamaha shiner	<i>Cyprinella xaenura</i>	307010313	12.79	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Holiday darter	<i>Etheostoma brevirostrum</i>	315010101	40.98	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
holiday darter	<i>Etheostoma brevirostrum</i>	315010202	21.98	A		S			ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
holiday darter	<i>Etheostoma brevirostrum</i>	315010203	29.04	A		S			ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
holiday darter	<i>Etheostoma brevirostrum</i>	315010401	23.37	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
holiday darter	<i>Etheostoma brevirostrum</i>	315010402	7.05	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome					Comments
					1	2	3	4	5	
holiday darter	<i>Etheostoma brevirostrum</i>	315010102	19.57	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Coldwater darter	<i>Etheostoma ditrema</i>	315010101	40.98	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
coldwater darter	<i>Etheostoma ditrema</i>	315010103	1.66	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
coldwater darter	<i>Etheostoma ditrema</i>	315010504	1.47	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
coldwater darter	<i>Etheostoma ditrema</i>	315010102	19.57	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Trispot darter	<i>Etheostoma trisella</i>	315010101	40.98	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
trispot darter	<i>Etheostoma trisella</i>	315010102	19.57	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
trispot darter	<i>Etheostoma trisella</i>	315010103	1.66	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
trispot darter	<i>Etheostoma trisella</i>	315010105	7.51	E	P					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
trispot darter	<i>Etheostoma trisella</i>	315010104	26.65	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Wounded darter	<i>Etheostoma vulneratum</i>	601020201	21.34	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
wounded darter	<i>Etheostoma vulneratum</i>	602000201	39.63	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
wounded darter	<i>Etheostoma vulneratum</i>	602000204	18.93	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
wounded darter	<i>Etheostoma vulneratum</i>	602000208	35.75	A			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
wounded darter	<i>Etheostoma vulneratum</i>	602000301	68.41	A		S				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
wounded darter	<i>Etheostoma vulneratum</i>	602000302	11.76	BA			S			OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Lined chub	<i>Hybopsis lineapunctata</i>	315010102	19.57	E	X					ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Lined chub	<i>Hybopsis lineapunctata</i>	315010103	1.66	E	X					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Lined chub	<i>Hybopsis lineapunctata</i>	315010105	7.51	E	P					OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome				Comments
					1	2	3	4	
Lined chub	<i>Hybopsis lineapunctata</i>	315010204	2.42	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Lined chub	<i>Hybopsis lineapunctata</i>	315010301	10.83	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Lined chub	<i>Hybopsis lineapunctata</i>	315010303	37.73	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Lined chub	<i>Hybopsis lineapunctata</i>	315010504	1.47	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Lined chub	<i>Hybopsis lineapunctata</i>	315010505	3.37	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Lined chub	<i>Hybopsus lineapunctata</i>	315010101	40.98	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Lined chub	<i>Hybopsus lineapunctata</i>	315010104	26.65	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Mountain brook lamprey	<i>Ichthyomyzon greeleyi</i>	602000109	3.96	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Mountain brook lamprey	<i>Ichthyomyzon greeleyi</i>	602000201	39.63	A			S		ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain brook lamprey	<i>Ichthyomyzon greeleyi</i>	602000204	18.93	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Mountain brook lamprey	<i>Ichthyomyzon greeleyi</i>	602000301	68.41	A			S		ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain brook lamprey	<i>Ichthyomyzon greeleyi</i>	601020201	21.34	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Mountain brook lamprey	<i>Ichthyomyzon greeleyi</i>	602000208	35.75	A			S		ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Mountain brook lamprey	<i>Ichthyomyzon greeleyi</i>	602000302	11.76	BA			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Robust redhorse	<i>Moxostoma robustum</i>	306010401	12.1	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Robust redhorse	<i>Moxostoma robustum</i>	307010310	11.78	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Robust redhorse	<i>Moxostoma robustum</i>	307010313	12.79	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Popeye shiner	<i>Notropis ariommus</i>	602000101	3.96	E	X				ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

Common Name	Scientific Name	Watershed (5 th Level HUC)	Percent Ownership	WCR	Viability Outcome				Comments
					1	2	3	4	
Highscale shiner	<i>Notropis hypsilepis</i>	306010207	55	A		S			ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
Highscale shiner	<i>Notropis hypsilepis</i>	306010208	25.59	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Highscale shiner	<i>Notropis hypsilepis</i>	313000106	19.2	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
freckled darter	<i>Percina lenticula</i>	315010102	19.57	E	P				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
freckled darter	<i>Percina lenticula</i>	315010105	7.51	E	P				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
freckled darter	<i>Percina lenticula</i>	315010301	10.83	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
freckled darter	<i>Percina lenticula</i>	315010401	23.37	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Olive darter	<i>Percina squamata</i>	601020201	21.34	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
olive darter	<i>Percina squamata</i>	602000201	39.63	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
olive darter	<i>Percina squamata</i>	602000204	18.93	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
olive darter	<i>Percina squamata</i>	602000208	35.75	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
olive darter	<i>Percina squamata</i>	602000301	68.41	A		S			ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale
olive darter	<i>Percina squamata</i>	602000302	11.76	BA			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Frecklebelly madtom	<i>Noturus munitus</i>	315010101	40.98	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Frecklebelly madtom	<i>Noturus munitus</i>	315010102	19.57	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Frecklebelly madtom	<i>Noturus munitus</i>	315010401	23.37	E	X				OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Frecklebelly madtom	<i>Noturus munitus</i>	315010402	7.05	A			S		OFF, Forest Service opportunity to affect outcomes for species is limited due to species occurs off forest.
Fatlips minnow	<i>Phenacobius crassilabrum</i>	601020201	21.34	A		S			ON Forest, Improvements could be made to improve local conditions but would not improve conditions on a watershed scale

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