GCDAMP Knowledge Assessment: Status & Trend

Resource Topic:	Invasive fish species
Preparer(s):	David Rogowski, Ken Hyde
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Resource Characteristic	Specific Measure	Status	Trend	Confidence	Rationale: Status/Trend	Rationale: Confidence	Recommendations
Black Bullhead	abundance	Unknown	Unchanging	Medium	1270 captured (763 from LCR): been declining since highs in 2005-2006,	EF is not very effective for Bullhead catfish	
Black Crappie	abundance	Good Condition	Unchanging	Low	9 captured:	electrofishing is an effective monitoring tool, no longer being stocked	
Brook Trout	abundance	Good Condition	Unchanging	High	692 captured, most in LF: 1978-1995. last one captured in 1995	electrofishing is an effective monitoring tool	none
Brown Trout at Lees Ferry Reach	abundance	Significant Concern	Deteriorating	High	increasing numbers found in Lees Ferry reach	electrofishing is an effective monitoring tool	Maintain or reduce current spawning numbers in Lees Ferry Reach to protect Rainbow Trout and Humpback Chub fishery
Brown Trout below Lees Ferry Reach	abundance	Moderate Concern	Deteriorating	High	System wide decreasing numbers, but primarily due to removal project by NPS at Bright Angel Creek. At smaller scale other areas are stable	electrofishing is an effective monitoring tool	Maintain or reduce current spawning numbers in Lees Ferry Reach to protect Rainbow Trout and Humpback Chub fishery
Burbot	presence	Good Condition	Unchanging	High	none have been captured/occur in database	electrofishing is an effective monitoring tool	
Channel Catfish	presence	Moderate Concern	Unchanging	Low	no real effective means of monitoring	no real effective means of monitoring	
Common Carp	abundance	Moderate Concern	Unchanging	Medium	11,633 captured: no trends in AGFD monitoring data	it appears that recruitment is uncommon	
Cutthroat Trout	abundance	Good Condition	Unchanging	High	only 17 captured (1980-1986) (2 @ LF, rest 53-69, one at 160	electrofishing is an effective monitoring tool	none
Fathead Minnow	abundance	Moderate Concern	Unchanging	Medium	40692 captured: number decreasing in mainstem since 2011		HFE(s) probably reduce numbers
Flathead Catfish	presence	Unknown	Unchanging	Low	none have been captured/occur in database (but occur in lower CO R)	no real effective means of monitoring	
Gizzard Shad	abundance	Good Condition	Unchanging	Medium	only 13 captured in records (first in 2008, 1 in 2015)	not sure how effective EF is for Gizzard Shad	
Grass Carp	abundance	Good Condition	Deteriorating	Medium	larval grass carp have been recently detected in Lake Powell	larval grass carp have been recently detected in Lake Powell	
Green Sunfish	abundance	Significant Concern	Deteriorating	Medium	3601 captured with 3553 in 2015 at LF: increasing numbers found in Slough(s) at Lees Ferry	removal efforts are only temporary (source is Lake Powell)	make conditions inhospitable
Largemouth Bass	abundance	Good Condition	Improving	High	84 captured, 2 at LF rest below 212, last one caught in 2000	electrofishing is an effective monitoring tool	

Mosquitofish	abundance	Moderate Concern	Unchanging	Medium	279 captured, most in 2006 (n=221) seining backwaters in W GC: no trends in AGFD monitoring data		HFE(s) probably reduce numbers
Northern Pike	presence	Good Condition	Unchanging	High	none have been captured/occur in database	electrofishing is an effective monitoring tool, no longer being stocked	
Plains Killifish	abundance	Good Condition	Unchanging	Medium	4806 captured: 1860 from LCR	most occur in the LCR	HFE(s) probably reduce numbers
Rainbow Trout at Lees Ferry reach	abundance	Moderate Concern	Improving	High	Abundance has declined since 2011, but fish health (condition) is improving	electrofishing is an effective monitoring tool	
Rainbow Trout below Lees Ferry (< RM 0)	abundance	Good Condition	Improving	High	Abundance is declining systemwide	electrofishing is an effective monitoring tool	
Red Shiner	abundance	Good Condition	Unchanging	Medium	5334 captured, ~2100 in tributaries	no trends seen in AGFD data, but data is sparse	
Smallmouth Bass	abundance	Good Condition	Unchanging	High	only 13 have been caught since 1991?	electrofishing is an effective monitoring tool, no longer being stocked	Increase monitoring - likely coolwater spawner (13-18 degrees C) as dam discharge warms
Striped Bass	abundance	Moderate Concern	Unchanging	Medium	448 in database: no trends in AGFD monitoring data	not sure how effective EF is for striped bass	
Threadfin Shad	abundance	Good Condition	Unchanging	Low	88 captured (61 caught in 1992):	not sure how effective EF is for Threadfin Shad	
Tilapia	presence	Good Condition	Unchanging	High	none have been captured/occur in database, but in Lake Mead	Co R. is probably too cold for Tilapia	none
Walleye	abundance	Good Condition	Unchanging	High	only 39 have been caught since 1991?	electrofishing is an effective monitoring tool, no longer being stocked, but increasing in Lake Powell	Increase monitoring - most likely coldwater spawner (6-13 degrees C) to gain a foothold
Yellow Bullhead	presence	Good Condition	Unchanging	Low	240 captured 1985-2014, primarily (201) in LCR	EF is not very effective for Bullhead catfish	
Yellow Perch	presence	Good Condition	Unchanging	High	none have been captured/occur in database	electrofishing is an effective monitoring tool, no longer being stocked	