State of California Department of Fish and Wildlife

Memorandum

Date: January 17, 2020

- To: Sarah Mussulman Sierra Fisheries Supervisor Department of Fish and Wildlife North Central Region
- From: Mitch Lockhart Environmental Scientist Department of Fish and Wildlife North Central Region

Subject: Resource Assessment at Cody Lake, El Dorado County

Cody Lake (Lake ID 14462), El Dorado County, is a small lake which drains to Cody Creek and the South Fork American River (Figure 1). It is accessed via a short, one-mile hiking trail. Scouts of America maintain a cabin at the lake and use it throughout the summer for scout activities. California Department of Fish and Wildlife (CDFW) actively aerially stocks Cody Lake with fingerling rainbow trout (Oncorhynchus mykiss; RT) and brown trout (Salmo trutta; BN). In addition, golden shiner (Notemigonus crysoleucas; GSH; Figure 2) minnows are known to be present. The lake is known as a productive put-and-grow fishery, producing RT and BN in good body condition (Figures 3 & 4).

On August 20, 2019, two CDFW Scientific Aids conducted a Visual Encounter Survey (VES) of Cody Lake to determine if any special status diurnal herpetofauna occur



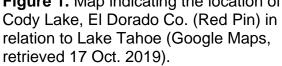




Figure 2. Example of golden shiner minnow present in Cody Lake (Mamola 2018).



Figure 3. Example of put-and-grow rainbow trout present in Cody Lake (Mamola 2018).



Figure 4. Example of brown trout present in Cody Lake (Mamola 2018).

at Cody Lake that would preclude the lake from being aerially planted. The VES began at 2:50 pm under clear skies, light wind, and an air temperature of 23° C. The survey concluded at 3:18 pm for a total survey effort of 53 minutes. No herpetofauna were observed. The outlet was dry when the survey was conducted.

The Scientific Aids spent one-hour hookand-line sampling the lake. Large aggregates of minnows were observed in the shallows. The only fish landed was a 4-inch Lahontan redside (*Richardsonius egregious*; LRS). This is the first observation of LRS at Cody Lake, however fish identification was not certain and LRS presence has yet to be independently confirmed.

The absence of special status herpetofauna and the presence of self-sustaining forage fish in high densities suggests Cody Lake continues to be suitable for put-and-grow sports fish management. The observed low catch rate of trout during this survey and while angling in 2018 (Lockhart 2018) is further supported by anecdotal angling reports (Mamola pers. comm.). Seasonality is an important variable for angling success; however, the available forage and unoccupied habitat suggest Cody Lake is suitable for increased allotments and/or increased stocking frequency compared to historic allotments (**Table 1**).

Year	Species	Number	Year	Species	Number	
1950	BK	2,000	1978	BK	960	
1951	BK	2,000	1979	BK	1,007	
1952	BK	2,016	1980	BK	990	
1953	BK	2,002	1982	KS	500	
1954	BK	2,000	1983	BK	520	
1955	BK	2,000	1983	BK	520	
1957	BK	2,016	1985	BK	1,000	
1958	BK	2,000	1986	BK	1,050	
1960	BK	1,980	1987	BK	1,000	
1964	BK	1,960	1988	BK	1,000	
1965	BK	1,800	1989	BK	1,200	
1966	BK	1,980	1990	BK	1,200	
1967	BK	2,000	1992	BK	1,000	
1968	BK	1,000	1993	BK	1,000	
1969	RT	936	1994	BK	1,000	
1970	RT	2,048	1996	BK	800	
1971	BK	2,000	1997	BK	1,000	
1972	BK	1,932	1998	BK	1,000	
1973	BK	704	1999	BK	1,000	
1974	BK	1,008	2000	BN	2,100	
1975	BK	990	2017	BN	2,000	
1976	BK	1,000	2017	RT	3,000	
1977	BK	1,030	2018	RT	2,000	

Table 1. CDFW Fingerling Stocking History at Cody Lake, El Dorado Co.

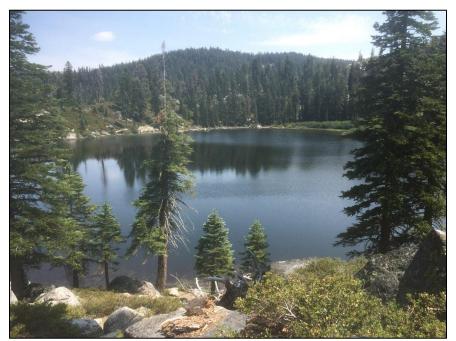


Photo 1. Overview photo of Cody Lake looking east.

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Figure 5. VES data sheet from a survey conducted on Aug. 20, 2019, at Cody Lake, El Dorado County.

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Figure 5, Con't. VES data sheet from a survey conducted Aug. 20, 2019, at Cody Lake, El Dorado County.