State of California Department of Fish and Wildlife

Memorandum

Date: November 9, 2020

To: Sarah Mussulman

Senior Environmental Scientist; Supervisor

Department of Fish and Wildlife

North Central Region

1701 Nimbus Road, Suite A Rancho Cordova, CA 95670

Cc: CDFW North Central Region Fish Files

From: Mitch Lockhart; Environmental Scientist, &

Clyde "Cian" Hettrick; Scientific Aid Department of Fish and Wildlife 1701 Nimbus Road, Suite A Rancho Cordova, CA 95670

Subject: Pre-Stocking Evaluation at Showers Lake, El Dorado County.

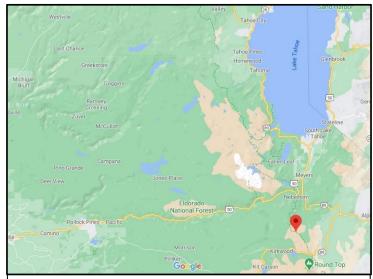


Figure 1: Showers Lake (red pin) in relation to Lake Tahoe (Google Maps retrieved 9/04/20)

Showers Lake (Lake ID: 14485) is a hiking and backpacking destination located in El Dorado County within the Dardanelles Roadless Area managed by the U.S. Forest Service Lake Tahoe Basin Management Unit (LTBMU) (Figure 1 & Picture 1). The lake is accessible by a five-mile hike via the Meiss Meadow Trailhead. The lake level is enhanced by a small earthen dam to an elevation of 8,647 feet above sea level. The creek flowing out of Showers Lake is a tributary to the Upper Truckee River and eventually flows into Lake Tahoe. California Department of Fish and Wildlife (CDFW)

initially planted Brook Trout (*Salvelinus fontinalis*; BK) in Showers Lake in the 1950s (**Table 1**). In 1997 CDFW switched to Lahontan Cutthroat Trout (*Onchorhynchus clarkii henshawi*; LCT), the native trout to the Lake Tahoe Basin.



Picture 1: Overview photo of Showers Lake looking south (07/08/2020).

Showers Lake is part of the Upper Truckee River Lahontan Cutthroat Trout Restoration Project (UTRLCTRP). For more on this this project refer to LTBMU's UTRLCTRP 2018 Annual Report.

Table 1. CDFW Stocking history of Showers Lake from 1990 to 2020.

<u> Lake Helli</u>	000 to 2020.	
Year	Species	Number of Fish
1990	BK	1,200
1991	BK	400
1992	BK	1,000
1993	BK	1,000
1994	BK	1,000
1996	BK	1,000
1997	LCT	2,000
1998	LCT	2,000
1999	LCT	2,000
2000	LCT	2,000
2004	LCT	2,000
2006	LCT	2,000
2007	LCT	2,000
2008	LCT	2,000
2009	LCT	2,000
2013	LCT	2,000

To assess whether continued plants of LCT are appropriate at Showers Lake, a CDFW Environmental Scientist, three CDFW Scientific Aides, and two volunteers performed hook and line surveys on the afternoon of the July 8, 2020 and morning of July 9, 2020.

July 8, the surveyors fished from 3:45 p.m. to 9:26 p.m. for a combined angling effort of 9.8 hours. The morning of July 9, 2020 the crew fished between 5:15 a.m. and 8:00 a.m. for an effort of 10.8 hours. No trout were hooked or landed during the two survey periods. Schools of Speckled Dace (*Rhinichthys osculus*; DC) were observed swimming in the shallows. One very large adult LCT was observed cruising along the shoreline but did not bite.

Three Scientific Aides conducted a visual encounter survey (VES) on July 9, 2020 to document the presence of any diurnal herpetofauna species that reside in or around the lake, specifically the Federally Endangered Sierra Nevada Yellow-Legged Frog (*Rana sierrae*; SNYLF). The VES began at 9:25 a.m. and concluded at 9:36 a.m. under partly cloudy skies and light wind for a total survey effort of 34 minutes. Air temperature was 14 degrees Celsius and water temperature was 14.5 degrees Celsius. We observed one adult Mountain Garter Snake (*Thamnophis elegans elegans; THEL*) during the survey.



Picture 2: Female LCT stranded in a pool on the intermittent Showers Lake outlet (7/09/20).

During the outlet survey a female LCT, measuring 410 mm (~16 in.), was found stranded in a small intermittent pool 200 meters from the lake with no ability to move up or downstream (**Picture 2**). The crew attempted to rescue the fish and return it to Showers Lake; however, the fish was significantly stressed and did not survive the rescue attempt.

The survey crew set a monofilament gill net because no fish were captured during the hook and line sampling. The gillnet was set for a shortened period of four hours and checked every hour during the sample period. The net was set at 7:40 a.m. and pulled at 11:43 a.m. One male LCT was captured measuring 555 mm (~22 in.) in length and 284 mm (~11 in.) in girth (**Picture 3**). The surveyors believe this fish to be the same individual LCT observed from the shore and mentioned above.

LCT at Showers Lake cannot naturally reproduce, the lake does not have significant inlets and the small dam located on the outlet serves as a fish barrier, precluding fish moving from the outlet creek into the lake. Moreover, these survey data clearly show



Picture 3: 22-inch male LCT captured at Showers Lake during a gillnet survey (7/09/20).

backpack.

that LCT are not spawning within the lake. As a result, CDFW will continue to manage Showers Lake as a put-and-grow fishery.

The last CDFW plant was in 2013 with 2,000 LCT fingerlings (Table 1). Results from this survey prove that LCT can survive and grow to trophy-size. The lack of competition and the presence of a robust population of Speckled Dace produces individuals more than 20inches in length. Showers Lake should receive future plants of LCT fingerlings at similar numbers to prior year plants. Hook-and-line monitoring surveys should be conducted annually one to three years after the next planting event to document growth and survivorship. If aerial planting is not available for the 2021 planting season, all efforts should be made to deliver fingerling LCT by mule or

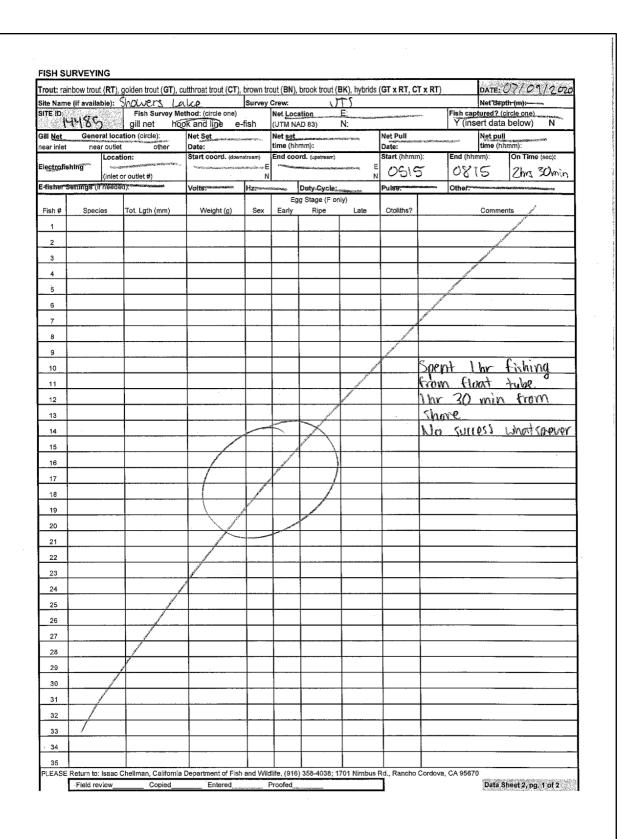


Figure 2: Hook and line datasheet for Angler 1 for July 9, 2020 on Showers Lake, El Dorado County.

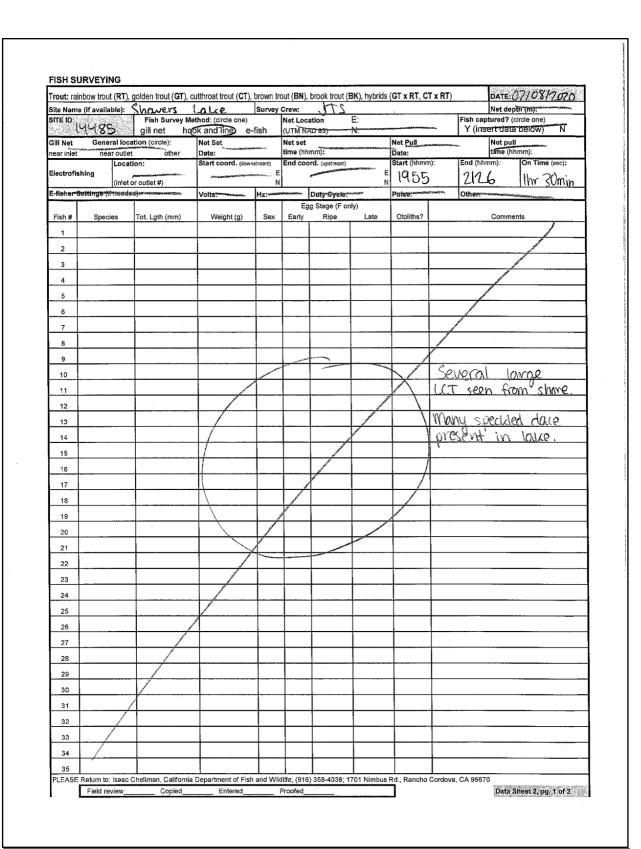


Figure 3: Hook and line datasheet for Angler 1 for July 8, 2020 on Showers Lake, El Dorado County.

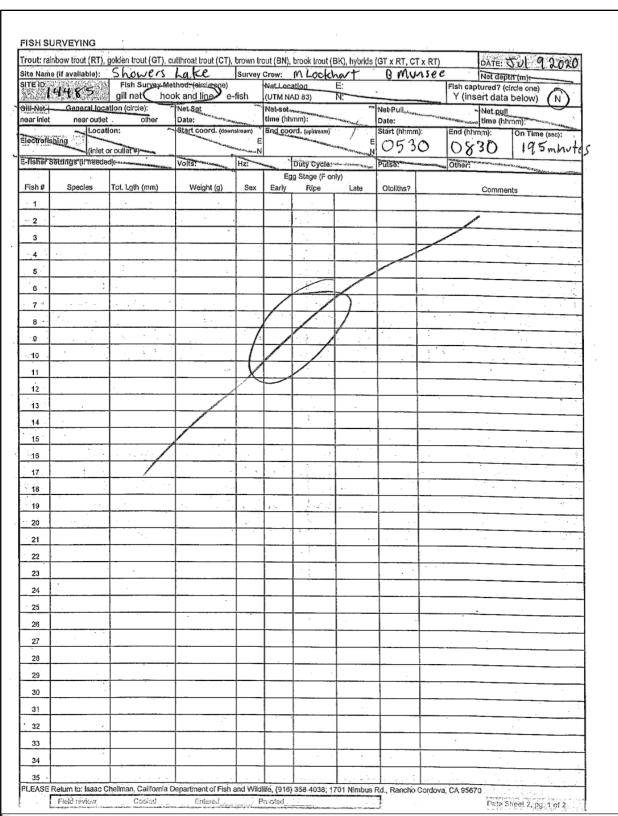


Figure 4: Hook and line datasheet for Angler 2 & 3 for July 9, 2020 on Showers Lake, El Dorado County.

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Figure 5: Hook and line datasheet for Angler 2 & 3 for July 8, 2020 on Showers Lake, El Dorado County.

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20 scien Codesis ganes = KOK, west Trout = Bi suntain Whites ster: strict L glors: Flat No. 1 2	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	, Rainbow Trost = rout = LCT, Golder Fin - Cflipped Y N Y N	RT, n Trout = GT, em pm Kapt Y N		Species Code Kokanas = KG Rowal Trout = Mountain Wha Water: Start: No. Anglers: Ffah No. 1	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fir Clipped Y N Y N	RT. Trout = GT, ent pm Kapt Y N Y N
20 scien Codesis kanaa = KCK kwii Trout = Bi suntain White aker: sut: 2. 2. 3. 3.	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	Fin Clipped Y N Y N	RT, of Trout = GT, of		Species Code Kokanea = KG Kokanea = KG Rown Trout = Mountain Whi Water Start: No. Anglers: Flah No. 1 2 3	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fir Clipped Y N Y N	RT. Trout = GT, ent pm Kopt Y N Y N
20 scien Codens: kanea = KCK, kanea = KCK, kwii Trout = Bi suntain White6 sker: suit: 2. c. c. glore: Flefi No. 1 2	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	, Rainbow Trost = rout = LCT, Golder Fin - Cflipped Y N Y N	RT, n Trout = GT, em pm Kapt Y N		Species Code Kokanes = KG Kokanes = KG Rows Trout = Mountain Whi Water Start No. Anglers: Flah No. 1 2 3 4	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fir Clipped Y N Y N Y N	RT. Trout = GT, Ship Pm Kopt Y N Y N Y N
20 scies Cortesis kanes = KOK	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	Fin Clipped Y N Y N Y N	RT. om pm Kept Y N Y N Y N		Species Code Kokanea = KG Kokanea = KG Rown Trout = Mountain Whi Water Start: No. Anglers: Flah No. 1 2 3	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fir Clipped Y N Y N Y N	RT. Trout = GT, San pm Kapt Y N Y N Y N Y N
20 scles Cortesis screen - ROK www.richard ROK www.richard ROK with Trout - Bi streen - ROK streen - RO	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	Fin Clipped Y N Y N Y N	RT. om pm Kept Y N Y N Y N		Species Code Kokunea = KG Kokunea = KG Rown Trout = Mountain Whi Water Start: No. Anglers: Flah No. 1 2 3 4 5	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fir Clipped Y N Y N Y N	RT. Trout = GT, Ship Pm Kopt Y N Y N Y N
20 scien Cortesi conea - KOK, was Trout - Bi contain Whitel ater: srt: Flah No.	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	Fin Clipped Y N Y N Y N Y N Y N Y N Y N	RT. em pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		Species Code Kohunga = KC Kohunga Kohung	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fin Clipped Y N Y N Y N Y N	RT. Trout = GT, ann pm Kapt Y N Y N Y N Y N Y N
20 action Costonia control Costonia control Costonia control Costonia control	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	Fin Clipped Y N Y N Y N Y N Y N Y N Y N Y N	RT. em pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		Species Code Kokunsa = KC Kokun	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fir Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kopt Y N Y N Y N Y N Y N Y N
20 scien Costesis Cos	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	Fin Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. em pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		Species Code Kokunsa = KC Kokun	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	First Clipped Y N Y N Y N Y N Y N Y N Y N Y	RT. Thout = GT, Sam pm Kapt Y N Y N Y N Y N Y N Y N Y N Y N Y N
20 action Costons connec = KOK, with Trout = Bit connec	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	Fin Cfipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. em pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		Species Code Kokunsa = KC Kokunsa Koku	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	First Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. Thout = GT, Sam pm Kapt Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N
20 acien Cottesis kanea = KOK, wai Trout = Bi buratah Whitel dater: surit 2.	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: Date: Species. Total	Fin Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. am pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		Species Code Kokunsa = KC Kokunsa Koku	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	First Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. Trout = GT, Sam pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N
20 acien Cottes: konea = KOK,	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: n Stop: Spocies. Turgetad: Longth	Fin Cfipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. em pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		Species Code Kokursa = KC Kokur	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fin - Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. Trout = GT, San pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N
20 action Costons: connect = KOK, c	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: n Stop: Spocies. Turgetad: Longth	Fin Cilipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. am pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		Species Code Kokunsa = KC Kokunsa Koku	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fin - Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kopt Syn N S
20 scies Cortes:	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: n Stop: Spocies. Turgetad: Longth	Fin Cipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. om pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		Species Code Kokursa = KG Kokur	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fin - Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. Trout = GT, San pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N
20 sclas Cortesis kanes = KOK	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: n Stop: Spocies. Turgetad: Longth	Fin Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. om pm Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N		Species Code Kohanga = Ko Kohanga K	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fir Chipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kopt Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N
20 sclen Cortesi canea - KOK, with Trout - Bi survival a Visitadi anter: sart: screen - KOK, sart: sart: sart: screen - KOK, sart: sart: sart: sart:	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: n Stop: Spocies. Turgetad: Longth	Fin Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. Omposite GT, Omposite GT		Species Code Kohunga = KC Kohunga Kohu	JK, Chicook Salmon e CHIN, L. BN, Brook Tsoul e GK, Lehont loffel e MyVF em pm pm	Date: Slop: Species. Targeled:	Fin - Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kapt Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N
20 scles Cortes: screen - ROK, with Tool - Bischer - Bischer - ROK, with Tool - Bischer	N, Brook Traut = BK, Lelvich = BKWF: ar Species	Date: n Stop: Spocies. Turgetad: Longth	Fin Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	RT. Ompout = GT, Ompout = GT, Y N Y N Y N Y N Y N Y N Y N Y		Species Code Kohunga ** Ko Ko Kohunga ** Ko Ko Ko Kohunga ** Ko K	JK, Chicock Safman CHIN, L. BN, Brook Taput = GK, Lahont loffeh = MWF orn pri Species Caught	Date: Slop: Species. Targeled:	First Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kopt Kopt Y N Y N Y N Y N Y N Y N Y N Y

Figure 7: Hook and line datasheet for Angler 5 for July 8-9, 2020 on Showers Lake, El Dorado County.

tart: _	am pm	Stop:		an pr	Water;	howers Lak			
o. nglers:		Species. Targeted:			Start: _	1603 5	Stop:	1822	
			-		No. Anglers:	I	Species. Targeted:	LCT	
Fish	Species	Total	Fin						
No.	Caught	Length	Clipped	Kept	Fish	Species	Total	Fin -	
1		$\overline{}$	Y N	YN	No.	Caught	Length	Clipped	Kept
2		-	YN	Y N	1 1	\		Y N	YN
3		$\overline{}$	YN	YN	2		+	Y N	YN
4		1	Y N	YN	3 4	AX	+	Y N	YN
5		-	Y N	YN	5	- - X -	-	Y N	YN
6		1	Y N	YN	6		1	YN	YN
7			Y N Y N	YN	7		1	Y N	YN
8	B-64-10-11-	1		_	8	,		Y N	YN
9		1	Y N Y N	YN	9			Y N	YN
11		1	YN	YN	10			Y N	Y N
12			YN	YN	11			Y N	YN
13		+	YN	YN	12			Y N	Y N
14			YN	YN	13			Y N	YN
15			YN	YN	14			Y N	YN
16			Y N	Y N	15			Y N	YN
17			Y N	YN	16		-	Y N	YN
18			Y N	Y N	17		-	Y N	YN
19			Y N	YN	18		+	Y N	YN
20			Y N	YN	20		-	YN	YN
ecles Co kanee = P own Trout ountain W	KOK, Chinook Salmon = CHIN, L = BN, Brook Trout = BK, Lahort hitefish = MWF	an Cutthroat 1	Frout = LCT, Golds	en Trout = GT,	Brown Troe Mountain W Water:	KOK, Chinook Salmon = CHIN, it = BN, Brook Trout = BK, Lahor thite6sh = MWF Showers Lake	Date:	7-18/207	Trout = GT.
ecies Co kanee = P own Trout untain W	KOK, Chinook Salmon = CHIN, L = BN, Brook Trout = BK, Lahont hitefish = MWF	an Cutthroat 1	Frout = LCT, Golds	on Trout = GT,	Kokanee = Brown Trou Mountain W	KOK, Chinook Salmon = CHIN, it = BN, Brook Trout = BK, Lahor thite6sh = MWF Showers Lake	Date:	Trout = LCT, Golder	Trout = GT.
ecles Co kanee =) own Trout ountain W Water;	COK, Chinook Salmon = CHIN, L = BN, Brook Trout = BK, Lahort hiteflish = MWF SN8WErS Lawe 0 5 5 0 am	an Cutthroat 1	Frout = LCT, Golds	en Trout = GT,	Kokanea = Brown Trou Mountain W Water:	KOK, Chinook Salmon = CHIN, it = BN, Brook Trout = BK, Lahor thite6sh = MWF Showers Lake	Date:	7-18/207	Trout = GT.
ecles Co- kanee = hown Trout untain W Water; Start: No. Anglers:	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lehort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	19/202 3715 LCT	en Trout = GT.	Kokanse Brown True Mountain W Water: Start: No.	KOK, Chinook Salmon = CHIN, it = BN, Brook Trout = BK, Lahor thite6sh = MWF Showers Lake	Date: Stop: Species.	7-18/207	Trout = GT.
ecies Co- kanee = hown Trout untain W Water: Start: No. Anglers: Fish No.	COK, Chinook Salmon = CHIN, L = BN, Brook Trout = BK, Lahort hiteflish = MWF SN8WERS LAME 0 5 5 0 am pm	Date: 1 Stop: Species. Targeted:	H191202 3715 LCT	en Trout = GT.	Kokanes Brown Troughout Mountain W Water: Start: No. Anglers: Fish No.	KOK, Chinook Salmon = CHIN, I = BN, Brock Trout = BK, Lehor hitefish = MWF Shawe-S Lake Z007 am	Date: Stop: Species. Targeted:	Trout = LCT, Golder 7 18 28 2 211 5 L CT Fin Clipped	am pm
water: Start: No. Anglers: Fish No. 1	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lehort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin - Clipped Y N	en Trout = GT.	Kokanse Brown Troughountain W Water: Start: No. Anglers: Fish No.	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin - Clipped Y N	Bm pm
ecles Co- kanee = 1 war Trout wuntain W Water: Start: No. Anglers: Fish No. 1	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lehort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin - Clipped Y N Y N	& Gm Pm Kept Y N Y N	Kokanse Brown Troughountain W Water: Start: No. Anglers: Fish No. 1	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin . Clipped Y N Y N	Arnot = GT. BMD pril) Kept Y N Y N
ecies Co- kanee = Novement Frout untain W Water: Start: No. Anglers: Fish No. 1 2 3	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lehort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin Clipped Y N Y N	Rept Y N Y N	Kokanse Teu Brown Teu Mountain W Water: Start: No. Anglers: Fish No. 1 2 3	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin . Clipped Y N Y N	Sm Prior = GT. Sm Prior = GT. Kept Y N Y N Y N Y N
ecies Cookanee = Fown Trout untain W Water: Start: No. Anglers: Fish No.	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lehort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin - Clipped Y N Y N	Kept Y N Y N Y N	Kokanse Brown Troughout Tr	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin - Clipped Y N Y N Y N	Kept Y N Y N Y N Y N
ecies Co- kanee = Novement Frout untain W Water: Start: No. Anglers: Fish No. 1 2 3	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lahort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin Clipped Y N Y N Y N	Rept Y N Y N	Kokanse Teu Brown Teu Mountain W Water: Start: No. Anglers: Fish No. 1 2 3	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin . Clipped Y N Y N	Sm Prior = GT. Sm Prior = GT. Kept Y N Y N Y N Y N
ecies Cokanee = Fown Trout untain W Water: Start: No. Anglers: Fish No. 1 2 3 4 5	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lahort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin Clipped Y N Y N Y N Y N	Kept Y N Y N Y N	Kokanses Brown Troughout T	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin Clipped Y N Y N Y N	Kept
ecies Cokanee = 1 www. Trousuntain W. Wafer: Start: No. Anglers: Fish No. 1 2 3 4 5 6	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lahort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin Clipped Y N Y N Y N Y N	Kept Y N Y N Y N Y N Y N	Kokanses Brown True Mountain W Water. Start: No. Anglers: Flish No. 1 2 3 4 5 6	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Trout = LCT, Golder H 18/ Z8 Z Z11 S L CT Fin Clipped Y N Y N Y N Y N	Kept Y N Y N Y N Y N Y N
ecies Cockanae = ecies	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lahort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin Clipped Y N Y N Y N Y N	Kept Y N Y N Y N Y N Y N Y N	Kokanses Brown Troughout Mountain W Water. Start: No. Anglers: Fish No. 1 2 3 4 5 6 7	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin Clipped Y N Y N Y N Y N Y N	Kapt Y N
Water: Start: No. Anglers: Fish No. 1 2 3 4 5 6 7 8	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lahort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin Clipped Y N Y N Y N Y N Y N Y N	Kept Y N Y N Y N Y N Y N Y N Y N Y N	Kokanses Brown Trub Mountain W Water: Start: No. Anglers: Fish No. 1 2 3 4 5 6 7 8	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin Clipped Y N Y N Y N Y N Y N	Kapt Y N
Value	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lahort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin Cipped Y N Y N Y N Y N Y N Y N Y N Y	Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kokanse Brown Troughountain W Water: Start: No. Anglers: Fish No. 1 2 3 4 5 6 7 8 9 10 11	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin - Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kept Y N
Fish No. 1 2 3 4 5 6 7 8 9 10 11 12 12 12 12 12 12	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lahort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin Cipped Y N Y N Y N Y N Y N Y N Y N Y	Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kokanse	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin - Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kept Y N
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ecies Co- canne = 1 experiments water: Start: No. Anglers: Fish No. 2 3 4 5 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COK, Chinook Salmon = CHIN, Le BN, Brook Trout = BK, Lahort hiteflish = MWF SWOWERS Lawe 0 5 5 0 am The Species	Date: 1 Stop: Species. Targeted:	Fin - Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y	Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kokanse Brown Troughountain W Water. Start: No. Anglers: Fish No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	KOK, Chinook Salmon = CHIN, I = BN, Brook Trout = BK, Lehor hitefish = MWF Shawers Lawe ZOO7 am Species	Date: Stop: Species. Targeted:	Fin . Clipped Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kept Y N
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Figure 8: Hook and line datasheet for Angler 6 for July 8-9, 2020 on Showers Lake, El Dorado County.

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Figure 9: Datasheet with gill net data from a survey conducted on July 9, 2020 at Showers lake, El Dorado County. this net was set on the northwest portion of the lake 200 yards to the west of the outlet.

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Figure 10: Data Sheet with Visual Encounter Survey data from a survey conducted July 9, 2020, at Showers Lake, El dorado County. One adult THEL seen.