



County of El Dorado

Chief Administrative Office

330 Fair Lane
Placerville, CA 95667-4197

El Dorado County River Management Plan 2019 Annual Report



Prepared by Preston Moore, Parks Operation Assistant and Chelsea Edman, Department Analyst

Table of Contents

2019 El Dorado County River Management Plan Annual Report

	Page
Introduction	3
River Valley.....	3
Water Flows.....	3
River Use.....	5
Outfitter Use.....	8
Institutional Use.....	9
Boat Density.....	9
River Use Preferences	10
County Staff Activities.....	12
Outfitter Violations.....	13
Traffic Use.....	13
Water Quality.....	14
Other Comments.....	14
Budget.....	15
Closing.....	15

List of Figures

	Page
CA Snow and Water Comparison Panel.....	4
South Fork River Flow Chart at Chili Bar Dam	4
River Use Graph.....	7

2019 Boat Density Chart.....10

River Use Preference Charts.....11

2019 Budget Allocation.....15

List of Tables

	Page
Chili Bar Release Schedule by Water Year Type.....	5
River Counts Between Coloma and the Highway 49 Bridge.....	8
2018-2019 Fiscal Year.....	15

Appendixes

	Page
Appendix A: E. Coli Testing Graph.....	17
Appendix B: El Dorado County Sheriff Marine and Boating Unit.....	18
Appendix C: Seasonal River Staff Logs	19

El Dorado County River Management Plan

2019 Annual Report

INTRODUCTION

The El Dorado County River Management Plan (RMP) 2019 Annual Report provides information on the 2019 river season and ongoing RMP implementation.

The 2019 Annual Report is presented to the Parks and Recreation Commission at a public session.

2019 saw the continuous implementation of the changes outlined in the revised River Management Plan adopted in 2018. The changes to outfitter classification do not appear to have caused any issues the Board worried could arise from the outfitter standards imposed on them, and all institutional groups have already moved into parity with the commercial standards.

In 2019, The Board of Supervisors rescinded Resolution 065-2002, establishing the RMAC and Resolution 078-2019 established the Coloma Lotus Advisory Committee (CLAC).

RIVER VALLEY

The 21-mile section of the South Fork of the American River from Chili Bar Dam to Folsom Reservoir continues to be one of the most rafted and kayaked rivers in the State of California with annual use averaging well over 100,000 people. This river flows through the seven mile long Coloma Lotus Valley, also well known as a historical and national recreational destination. There are four large public campgrounds in addition to the Marshall Gold Discovery State Historic Park, Henningsen Lotus County Park, and several Bureau of Land Management (BLM) parcels situated along the river. Public trails provide access to the river and, in some areas, run adjacent to the river at either end of the valley. Public access to the river is available at the State Highway 49 Bridge, as well as nine private properties with Special Use Permits. The number and diversity of recreational facilities and privately owned properties along the river, combined with the annually scheduled recreational water release flows, make the South Fork of the American River a globally recognized destination for class II-III boating as well as other forms of river recreation.

WATER FLOWS

The precipitation for 2019 ended up being above average for the water year. As of May 1st, the yearly precipitation was 125 percent of normal, an increase from 75 at the same time last year. The snowpack water content on May 1, 2019, was about 160 percent of average to date as compared to 25 percent on May 1, 2019. The precipitation range for the state was high at 130 percent in the northern part of the state. Overall, state percent of average precipitation was 125 percent. Reservoir storage statewide was also 115 percent of average overall, which was a bit

higher than the same point in 2018. The complete California Department of Water Resources Bulletin 120 (May 1, 2019) report can be available at <http://cdec.water.ca.gov/snow/bulletin120/>.

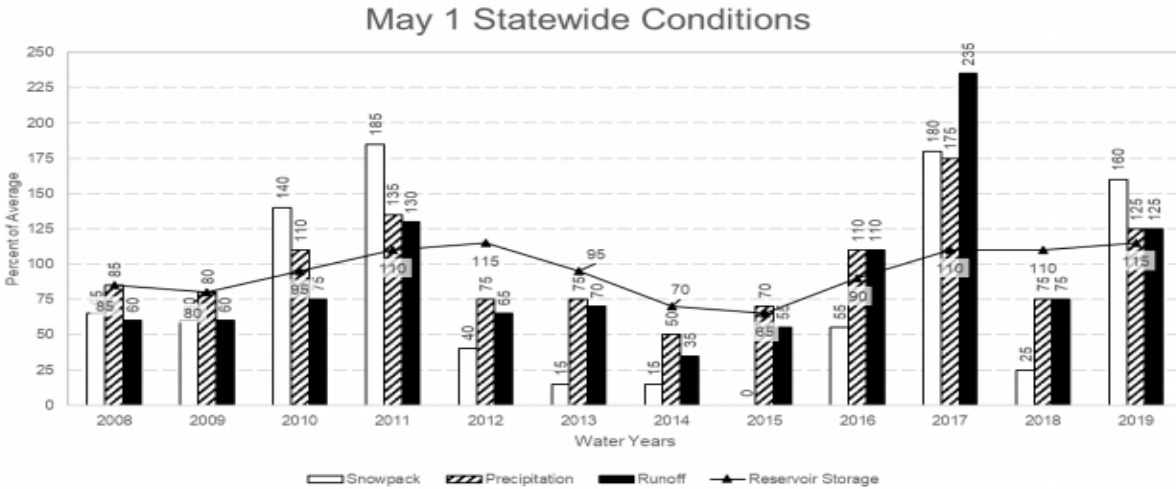


Figure 1: California Snow Water Content Comparison Panel

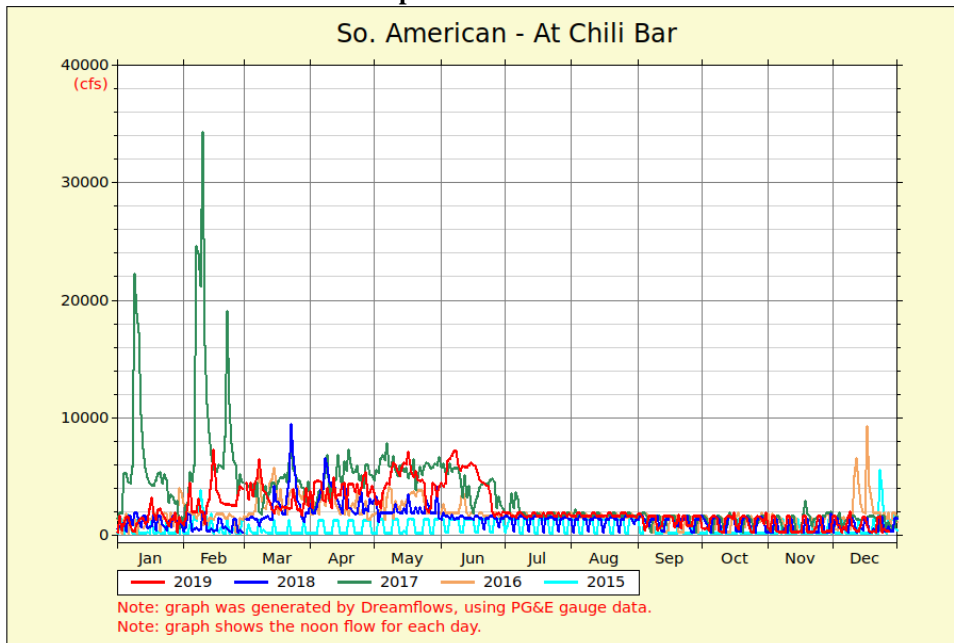


Figure 2: South Fork of the American River Flow as recorded at Chili Bar Dam 2015-2019

The water year type in 2019 was designated as a “Wet” year, as opposed to “Below Normal” in 2018. The water year type assigns the release schedule out of Chili Bar Reservoir for river recreation. The Sacramento Municipal Utility District’s (SMUD), and Pacific Gas and Electric’s (PG&E) Federal Energy Regulatory Commission (FERC) license for dams on the South Fork of the American River requires regular recreational releases. The high amounts of water storage meant that there were releases every day of the week until September. The release volume averaged between 1,500 on weekdays and 1,750 on the weekend’s cubic feet per second (CFS) in

2019, providing quality whitewater. These releases were the minimum scheduled amounts, and actual releases often surpassed 2,000 CFS.

The change in water year type from last year resulted in higher than expected releases. The graph in figure 2 demonstrates the extended season of higher release volume. Water Year Type designations with corresponding flow schedules out of Chili Bar Dam illustrated in *Table 1* below.

South Fork American River Below Chili Bar Reservoir Dam Minimum Recreational Flow by Water Year (cfs)								
WATER YEAR								
TYPE	PERIOD	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
Super Dry	April - Memorial Day	3 Hrs @ 1300					3 Hrs @ 1300	3 Hrs @ 1300
	Memorial Day - Labor Day	3 Hrs @ 1300			3 Hrs @ 1300	3 Hrs @ 1300	5 Hrs @ 1300	5 Hrs @ 1300
	Labor Day - September						3 Hrs @ 1300	3 Hrs @ 1300
	October - March						3 Hrs @ 1300	
Critically Dry	March - Memorial Day	3 Hrs @ 1300					3 Hrs @ 1300	3 Hrs @ 1300
	Memorial Day - Labor Day	3 Hrs @ 1300			3 Hrs @ 1300	3 Hrs @ 1300	5 Hrs @ 1500	5 Hrs @ 1500
	Labor Day - September					3 Hrs @ 1300	3 Hrs @ 1300	3 Hrs @ 1300
	October - February						3 Hrs @ 1300	
Dry	March - Memorial Day	3 Hrs @ 1300	3 Hrs @ 1300				3 Hrs @ 1500	3 Hrs @ 1500
	Memorial Day - Labor Day	3 Hrs @ 1300	3 Hrs @ 1300		3 Hrs @ 1300	3 Hrs @ 1300	5 Hrs @ 1500	5 Hrs @ 1500
	Labor Day - September					3 Hrs @ 1300	3 Hrs @ 1300	3 Hrs @ 1300
	October - February						3 Hrs @ 1300	3 Hrs @ 1300
Below Normal	March - Memorial Day	3 Hrs @ 1300	3 Hrs @ 1300		3 Hrs @ 1300	3 Hrs @ 1300	3 Hrs @ 1500	3 Hrs @ 1500
	Memorial Day - Labor Day	3 Hrs @ 1300	3 Hrs @ 1300		3 Hrs @ 1300	3 Hrs @ 1300	6 Hrs @ 1500	6 Hrs @ 1500
	Labor Day - September				3 Hrs @ 1300	3 Hrs @ 1300	3 Hrs @ 1500	3 Hrs @ 1500
	October	3 Hrs @ 1300				3 Hrs @ 1300	3 Hrs @ 1500	3 Hrs @ 1500
	November - February						3 Hrs @ 1300	3 Hrs @ 1300
Above Normal	March - Memorial Day	3 Hrs @ 1300	3 Hrs @ 1300	3 Hrs @ 1300	3 Hrs @ 1300	3 Hrs @ 1300	4 Hrs @ 1750	4 Hrs @ 1750
	Memorial Day - Labor Day	3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500	6 Hrs @ 1750	6 Hrs @ 1750
	Labor Day - September				3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500
	October	3 Hrs @ 1300				3 Hrs @ 1300	3 Hrs @ 1500	3 Hrs @ 1500
	November - February						3 Hrs @ 1500	3 Hrs @ 1500
Wet	March - Memorial Day	3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500	6 Hrs @ 1750	6 Hrs @ 1750
	Memorial Day - Labor Day	4 Hrs @ 1500	4 Hrs @ 1500	4 Hrs @ 1500	4 Hrs @ 1500	4 Hrs @ 1500	6 Hrs @ 1750	6 Hrs @ 1750
	Labor Day - September				3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500	3 Hrs @ 1500
	October	3 Hrs @ 1300				3 Hrs @ 1300	3 Hrs @ 1500	3 Hrs @ 1500
	November - February						3 Hrs @ 1500	3 Hrs @ 1500

Source – Recreational Release Schedule Based on Water Year Type, SWRCB Order WQ 2013-0018, FERC Project No. 2155-024

Table 1: Chili Bar Dam Release Schedule by Water year Type (2019 “Wet” water year)

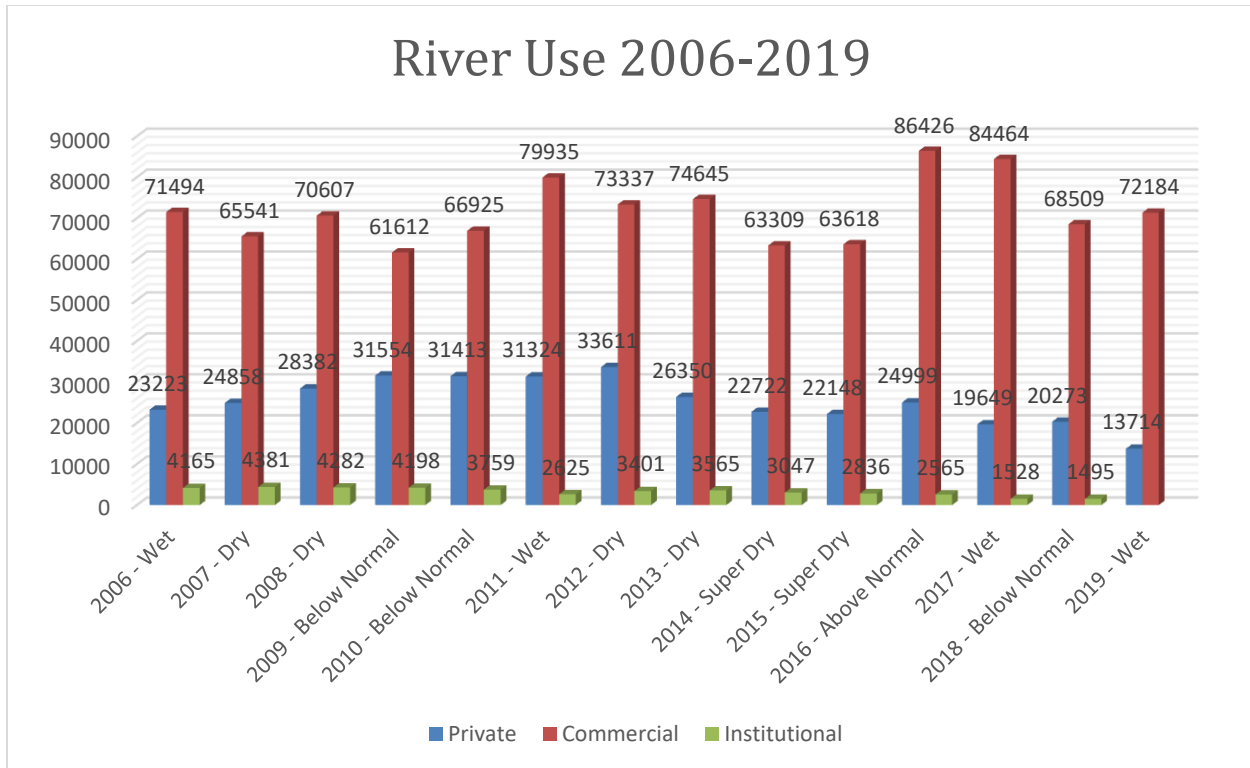
RIVER USE

Use in 2019 decreased slightly in comparison to 2018. 2019 saw over 85,898 boaters counted while 2018 counts were over 90,277 total boaters (not including outfitter guides) — a decline of approximately 6%. Early season 2019 saw a noticeable decrease in use due to the excessively high releases of water brought on by the snow pack and late-season accumulation. Heavy Spring rain and snow pack may have contributed to this decrease; however, increased releases that lasted long into the year likely helped to bring the number up. Given these negating factors, it seems

that the overall reduction in use is unlikely to stem from the type of water year; external forces such as the economy seem more likely to play a meaningful role.

According to the US Energy Information Administration (EIA), 2019 had higher average higher summertime gas prices than 2017 and 2018. Summertime gas prices in 2017 were, on average, the lowest since 2005. The US Bureau of Labor Statistics reported a summertime low unemployment rate of more than 3.6% in 2019, which was lower than last year's summertime low unemployment rate of 3.9%. However, both were the lowest since 2008. The US Bureau of Labor Statistics also reflects that the Consumer Price Index (CPI) continued to increase by around 2%. Overall, several economic indicators showed 2019 continuing the trend of good US economic health. It is hard to pinpoint how many economic factors influenced people's decisions to go rafting. However, it does not seem unreasonable to assume that the increase in jobs nationwide affects the number of rafters. Given that the snowpack was exceptional in 2019, it does not seem likely that the type of water year has a meaningful impact on the number of people that choose to go rafting.

Spring runoff (snowmelt) behind dams control the river level on the South Fork, usually beginning in May. The availability of whitewater on the river is consistent year to year from the scheduled recreational water releases. *Figure 3* below shows the river use totals for commercial outfitters (72,184 guests), and private boaters (13,741 people). Institutional groups were not counted separately due to the RMP change that required they meet commercial standards. The graph also shows the water type year from 2006-2019. SMUD water releases water based on the water year type. The river use numbers only reflect the use of the class III sections of the river for private boaters from the days that photos are taken, while taking a count of commercial use for the entire season. Therefore, it should be noted that actual private use is higher than represented by selected counts.



*Commercial Use Numbers do not include guides and guide trainees

*Institutional numbers are taken as commercial because of the requirement to meet commercial compliance as of 2019 under the RMP.

Figure 3: River Use Totals 2006-2019

Most of the river use and days of scheduled releases occur between Memorial Day weekend and Labor Day weekend. In 2019, 70% of commercial outfitter use fell between these dates, as opposed to 2018, when 85% occurred between the same dates — reflecting the increase in season length.

The peak day of total river use was August 10, 2019, with a total of approximately 3,018 people. The peak was higher than the previous two years, 2,754 and 2,919, and slightly higher than the 3,011 counted in 2016. The Peak use day in 2019 falls below the individual density numbers for the lower section of the river; therefore, individual density concerns are minimal. If there were exceedances of daily use on the river or an exceedance to the boat density threshold on the South Fork, then mitigation measures would be necessary.

The 5-mile middle section of the river from Coloma to Greenwood Creek in the Coloma/Lotus Valley continues to be a popular class II section of the river. Boaters, campground visitors, residents, and tourists enjoy floating on inner tubes or in small rafts on this section. There is a continued concern that alcohol bans on other regional rivers during holiday weekends would attract the drinking inner tube partiers to the South Fork of the American River. However, alcohol consumption remains constant and within responsible levels, and there has not been an

increase in citations issued by the Sheriff's Department. A glass ban on the river, implemented in 2017 with additional signage, appears to have reduced the number of glass containers brought on the river. Glass bottle use continued to decrease following several years of signage and informational efforts by parks and river staff. In 2019, significantly fewer people were inner tubing on the river during the first part of the summer due to the high water flow and excessive cold water. River staff, along with Parks staff, made considerable efforts to discourage private parties from undertaking tube trips for their safety.

The seasonal use on the middle section has been difficult to quantify due to the many put-in and take-out locations along this section of the river. Use during non-scheduled release days and use at minimum flows along with the ability for users to run multiple trips in a day, adds to the complexity of capturing the use numbers for the middle section. There are approximately 30 weekend days annually between Memorial Day weekend and Labor Day weekend. Based on prior year counts, a conservative estimate of use for this section could easily be 9,000 people based on an average of 300 people per weekend day. These past counts include class II boaters, inner tubes, and other casual floaters who do not usually attempt to float the class III sections of the river.

Counts were done twice on the Coloma to Greenwood section for 2019. Counts below Marshall Gold Discovery State Historic Park in the past have shown as many as 400 inner tubers floating this section on holiday weekends. The two past season counts appear in table 2.

Date	People*	Rafts	Kayaks	Inflatable Kayaks	Inner Tubes
8/10/2019	2554	85	64	16	249
7//2019	1741	71	57	8	295

*This does not include outfitter guides

Table 2. River Counts between Coloma and Hwy 49 Bridge

There averages less than one boating-related death on the South Fork per year on the section of river between Chili Bar Dam and Folsom Reservoir. In 2019 there was only one boating fatality caused by an underlying health issue. While there was another swimmer reported missing and presumed drowned, this was not related to commercial or private boating activity.

OUTFITTER USE

Commercial outfitters are the primary source for public rafting excursions down the South Fork. There were 24 permitted outfitters in 2019 three fewer than in 2018.

The consolidation of outfitters on the South Fork and rivers nationwide has been an ongoing trend over the last 15 years, resulting in more companies having multiple trips on the water or more extended trips more frequently, impacting other river users when these companies' trips

overlap. Overlapping typically occurs at lunch rest spots and at various locations on the river when one trip slows down for photos, groups join up for takeout, or when a full river trip catches up to a trip doing just the lower section. While density remains below thresholds, there were still some congestion issues at popular spots for taking out and lunch/bathroom breaks.

The 2001 RMP requirement for keeping trips, defined as seven rafts, of the same company separate so “sufficient distance between groups should be maintained so that, if needed, other individual boats may fit in” was changed with the adoption of the 2018 RMP. The RMP changes call for an initial spacing of five minutes between launches. An exception to this change is allowing for the regrouping of trips below Hospital Bar Rapid for trip consolidation of shuttles and improved efficiency at take-out (Salmon Falls).

INSTITUTIONAL GROUP USE

Only organizations teaching accredited educational courses will be able to continue to register as Institutional Groups per the updated RMP. In 2019, all Institutional Groups switched to commercial outfitter standards. The change appears in Figure 4, where there is no longer a separate count of institutional users.

BOAT DENSITY

The boat density safety measure aims to prevent boating safety hazards from occurring due to boat congestion on weekends. Boat density is the total number of boats passing a set point on the river within a two-hour window. In the event density passes three-hundred boats twice in a season, the RMP prescribes austerity measures to manage overcrowding and regain allowable density levels.

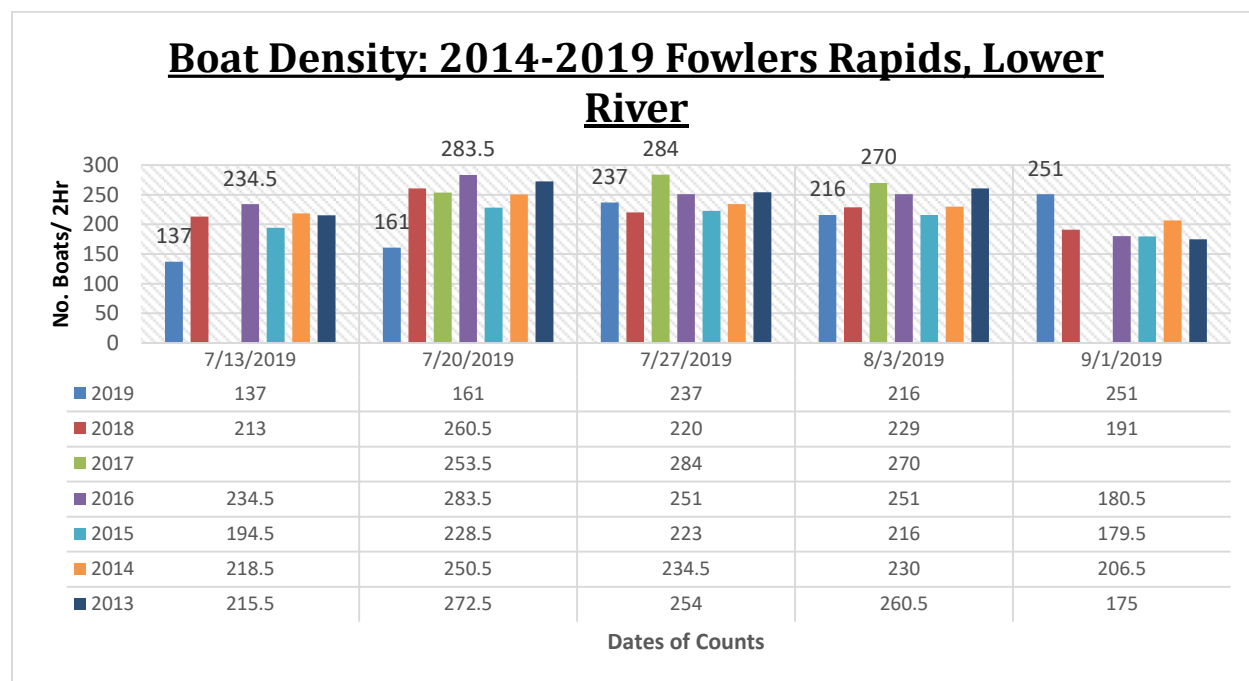
Boat density measurement comes from taking an aggregate total from a combination of traditional rafts, kayaks, tubes, and other inflatable crafts. Rafts are counted as one boat, while kayaks, inflatable kayaks, and inner tubes count as half a full boat. Rafts are larger and take up more space on the river, which is why smaller crafts like kayaks count for half.

Counts were done on Saturdays at Fowlers Rapid and Troublemaker rapids in 2019. The highest counts occurred on September 1, 2019, with 251 boats passing within two hours. While this number is well below the 300-boat ceiling, it is interesting to note that 2019 showed a trend towards increased river recreation later in the year.

Also, there was a count done for the middle section of the river, most popular for inner tubes and other inflatable individual leisure craft. The counts of the upper and middle sections confirm previous years' observations that these sections remain well below safety thresholds. The upper river count revealed a 2-hour density of 110 boats passing the Meatgrinder Rapids and 217 in the middle section. One hundred and fifty-six individual tubes account for 78 of the boats.

Counts on the upper in 2019 confirmed that boat densities were still substantially lower than the identified exceedance thresholds, with the peak counted at 87 boats counted on July 27, 2019.

The peak count on the upper section in 2015 was 121 boats on August 2. *Figure 4* on the next page reflects the peak density counts on the gorge section for the last seven years. Please note that counts are not done every Saturday during the river season. Based on past trends, the County has found that counting on the six weekends starting the second weekend in July and through the third weekend in August makes the most sense regarding capturing peak boating densities.



*Two Kayaks or Single Person Crafts are equal to one boat

Figure 4: Gorge 2 Hour Boat Density 2012-2019

No mitigation measures to restrict boating use are necessary for 2020. The sources of data utilized in estimating river use are outfitters monthly operating reports from March 2019, to November 2019, and Hotshot Imaging Photo data of noncommercial river use on the Chili Bar and Gorge Runs on selected weekends from July 6, 2019, through September 1, 2019.

RIVER USE PREFERENCES

The longstanding trend of river use for both private and commercial activity is for the lower segment of the river. The County can track total use patterns with regards to financial reports; however, as previously mentioned, the private user data does not represent a full accounting of use patterns. The preference for the lower trips remains throughout the year; however, it is slightly lower in the early months while the upper section river use is a bit higher. Whole river trips account for an average of 13.5% of the total use in the peak months dropping by almost 50% over that same time. During the same period trips on the lower section of the river climb from 50% early in the season to 68% by the later months. The lower section is also better equipped with regards to put in and take out facilities likely reflecting an efficient business decision with a more extended day trip for commercial passengers. Upper river trips remain

relatively stable between 22-29% of the total activity peaking in July and August before dropping back down by September. Whole river trips most likely reflect an increase in release levels as higher water increases the speed, thus shortening trip times allowing for more trips to cover the entire length of the South Fork. The middle section of the river is the most accessible section for floating and looking at the single manual count done on that section reflects a substantial concentration of inner tubes, paddleboards, and other inflatable crafts. Totals primarily reflect commercial use, while private counts appear in the specified months; private use is not monitored at a sufficient level to extrapolate meaningful conclusions. Perhaps future monitoring activity could use data from primary put in and take out spots along each section of the river. River use charts appear in *Figure 5* below.

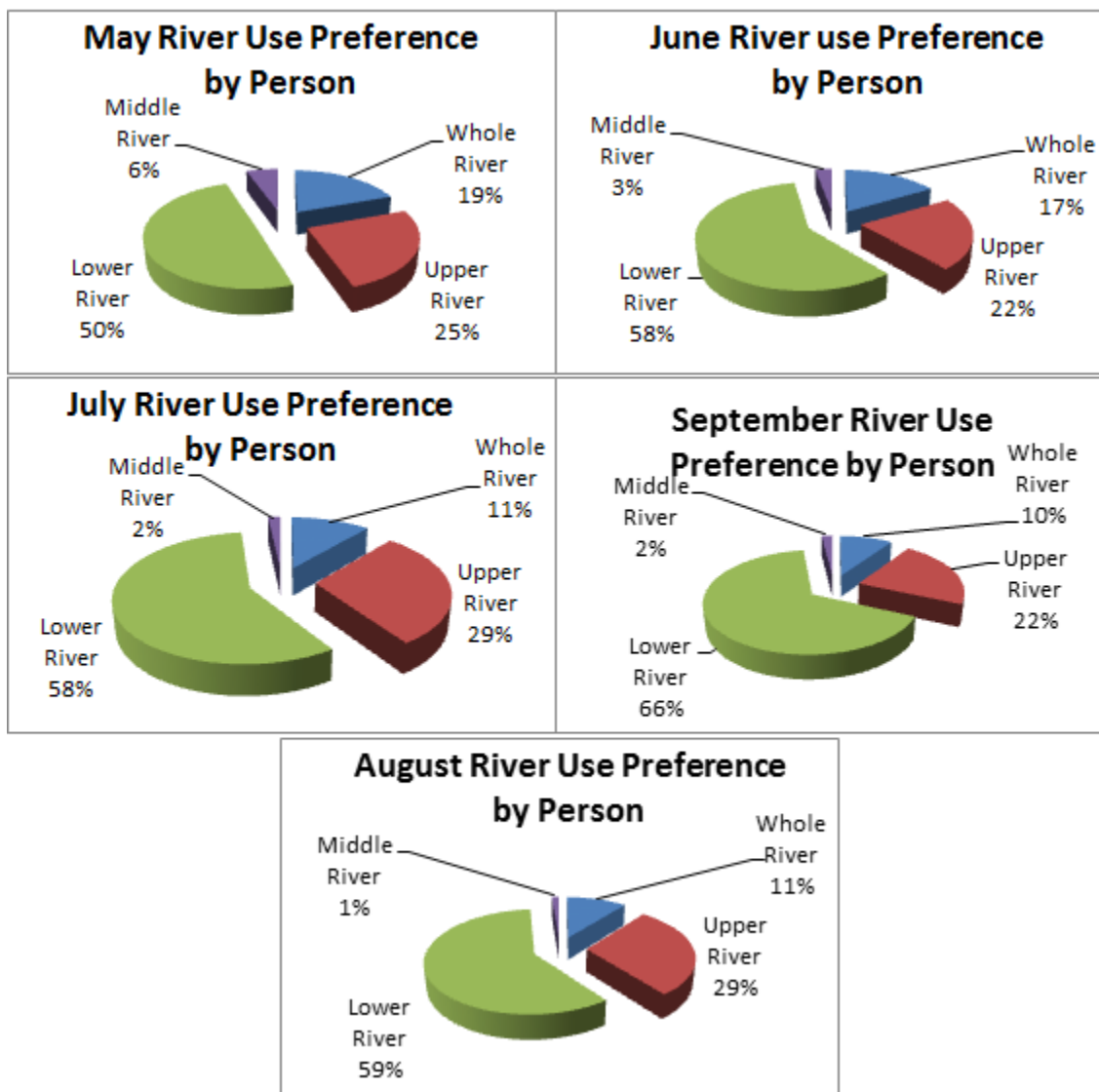


Figure 5. Preferences in river use by person 2019.

2019 COUNTY STAFF ACTIVITIES

The County Parks River Program employed five people in 2019, including the River Recreation Supervisor and four seasonal river staff (River Instructors). Previously, the River Instructors have been referred to as River Patrol. This was changed in 2019 to provide clarification as the title River Patrol indicated a law enforcement role on the river. All County law enforcement action on the river is to be conducted by the El Dorado County Sheriff's Office. Staff is currently working to update all gear and equipment to state "County Parks." In 2020, all gear and equipment will have been updated. River staff is responsible for the implementation of the RMP. In June, the River Recreation Supervisor resigned from the position. The Department Analyst took over the program. Since the four river staff had been trained by the River Recreation Supervisor prior to departure, river staff continued their duties as usual, reporting to the Department Analyst.

The vacancy has provided an opportunity to evaluate the program and the processes that were in place. Some changes within the program are needed and will be implemented during the 2020 season.

The river staff's daily activities primarily included boater education on the river and river access points, quiet zone monitoring, and river use monitoring. The emphasis among these four activities varied throughout the season, day of the week, and the river section a staff was working. On weekdays two staff worked on one of the two Class III sections. On weekends, two staff worked on the Gorge Run, combining aspects from each of these activities during the workday. Two staff monitored river use at Chili Bar put-in and monitored the Chili Bar Run. Staff working on the Chili Bar section typically would do a second or third run from Coloma to Henningsen Lotus Park (HLP) unless they were going down to Greenwood Cr. or Salmon Falls. Most of the Class II use occurs in the Coloma to HLP section. Having the additional staff also allowed for the better staggering of presence at put-ins and better overall coverage than in the past when staff needed to take time off. Staff also helped to maintain the three BLM composting toilets during the season. Seasonal river staff's logs have been attached herein, Exhibit C.

An overview of the river staff activities in 2019 outlined below:

Provide River and Boater Education for Private Boaters onshore Recreationists:

- River staff made contact with more than 1700 river users during the 2019 season and monitored more than 750 miles.
- Provided boating safety, boater responsibilities, private property education, river etiquette, leave no trace education, and river flow information at river accesses and on the river.
- Stocking kiosks with free waterproof river maps, providing boaters with the locations of restrooms, put-ins and take-out locations, quiet zone locations, names of rapids with GPS coordinates public and private land designations, agency and campground phone numbers along with a boating safety checklist.

River Safety:

- Completed approximately 169 on river shifts covering 1,633 miles.
- Provided a safety/sweep function by running the Class III sections late in the day.
- Placed a backboard, c-collar, and head stabilizers below Meat Grinder, Satan's Cesspool, and Fowlers Rock rapids for the regular (May-October) boating season.
- Remove hazardous trees that created obvious hard-to-avoid strainers. There were also several ropes and other smaller hazards that river staff removed during the season.
- Assist law enforcement, upon request, in body recovery and missing person searches.
- Assist and coordinate with BLM, State Parks, El Dorado Co. Sheriff, and CHP Helicopter unit.
- Provide instruction to river users on how to navigate safely on the river along with how to use the watercraft they were using on the river.

Quiet Zone:

- On-river staff is responsible for both river safety education and enforcement through the Coloma to Greenwood section.
- Emphasis on controlling quiet zone noise, use of public lands, litter education, and use of life jackets by all boaters and inner-tubers deals with ongoing concerns of the public.
- Provide safety information and aid to people floating/boating on the class II section.

River Use Monitoring:

- Conducted monitoring on weekends for the system carrying capacity.
- Auditing of commercial outfitter river use for compliance.
- Tracked noncommercial/private river use levels

Education and Outreach

- During the season, River staff organized river-cleanups on the upper and lower sections. Also, there was another cleanup done in Henningsen Lotus Park. Turn-out was not as high as in previous years; however, the amount of trash in the river was lower

In 2019, the Sheriff's Boating Unit made both full and partial river trips throughout the season. The County Sheriff has the authority to issue citations for both State and County life jacket violations along with other related County Ordinances, such as private boater violations of the quiet zone and the use of glass beverage containers within 100 feet of the water. A summary of the 2019 Sheriff's Boating Unit activities is available in Appendix B.

OUTFITTER VIOLATIONS

County Parks did not issue any permit violations in 2019.

TRAFFIC USE

Traffic counts come from the County Division of Transportation (DOT) and California Department of Transportation (Caltrans) on roads within the project area. The traffic counts for DOT and Caltrans can be found here edcapps.edc.gov.us/dot/trafficcounts.asp and here traffic-counts.dot.ca.gov/.

Coordination points along the river, such as Henningsen Lotus Park, continue to see parking impacts from rafting and the general public.

The Coloma Shuttle continued to operate as a private boater in 2019 with help from an Air Quality Management District Grant. They provided 478 shuttles, up from 464 shuttles in 2018, for 4,215 boaters, which did not include donated shuttles or contracted shuttles and were operational 144 days as of November 18, 2019, with approximately 100 more riders expected in December. The Coloma Shuttle remains a well-liked amenity for rafters and kayakers.

WATER QUALITY

The water quality monitoring bacterial test results in 2019 had acceptable readings overall for safe body contact on the South Fork. County Parks conducted water testing from June through September 2019. There were no days that had test results above 400/100 ml, which would have resulted in a sampling retest per this program's protocols. The bacterial water testing results for 2019 appear in Appendix A.

Bacteria coliform testing and other water quality measurements are being done by the Sacramento Municipal Utility District (SMUD) and Pacific Gas and Electric (PG&E) as prescribed in their new FERC licenses once the Federal Energy Regulatory Commission approves their implementation plans. The results of their testing show here: <https://www.smud.org/en/Corporate/Environmental-Leadership/Power-Sources/Upper-American-River-Project/Hydro-Relicensing>. The updated RMP continues bacterial coliform testing during the primary boating season only.

The County also has a comprehensive Stormwater Program that implements stormwater mitigation measures and best management practices (BMPs) as prescribed by the County Storm Water Management Plan and the Phase II Municipal National Pollutant Discharge Elimination System (NPDES) Permit.

OTHER RMP OBSERVATIONS AND COMMENTS

There are some goals identified in the updated RMP and in past annual reports that the County will be continuing to evaluate while also making efforts to implement. River staff continued educational efforts in 2019. Educational activities include stocking kiosks, boating safety information, life jacket requirements, public river access, private property locations, different

recreation permit requirements, sanitation requirements, bathroom locations, and lists of approved outfitters.

The 2019 budget had funding for overtime, which allowed for all staff to participate in special projects and working on holidays without taking away from regularly scheduled workdays.

BUDGET

The budget for the Parks River Program is a non-general fund program. The primary source of funding since 1997 is a \$2.00 per guest user fee paid by permitted outfitters. If a fee change was deemed necessary in the future due, any fee change is subject to additional action by the Board. Any funding needs will take into consideration any changes which could increase or decrease the level of funding needed to implement the updated RMP. *Table 3* and *figure 6* below provide a snapshot of the 2018/2019 Parks River Program budget year, River Trust Fund balances, and the 2019/2020 approved budget. Please note that the trust fund balance includes \$22,379 that carried over from FY 2017/18.

Fiscal Year 2019/2020	
Fund Balance as of July 1, 2018	\$230,142
Revenue (<i>July 1, 2018 through June 30, 2019</i>)	\$160,936
Expenditures (FY 2017/2018 approved budget was \$221,211)	\$198,282
River Trust Fund balance as of June 30, 2019	\$213,087
2019/2020 Approved Budget	\$232,005

Table 3: River Trust Fund Balance and Budget Summary

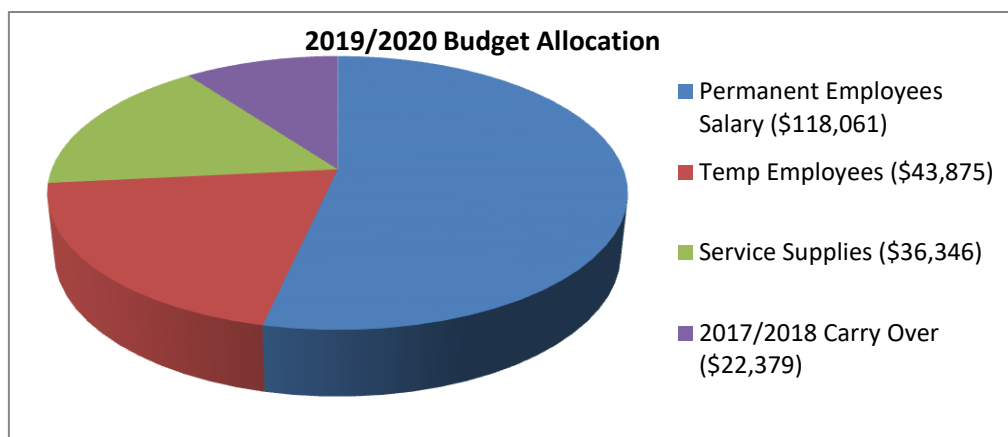


Figure 6: 2019/2020 Approved River Program Budget

CLOSING

Overall, the County Park's River Program in coordination with the BLM, State Parks, and El Dorado County Sheriff's Boating Unit was successful in managing the South Fork American

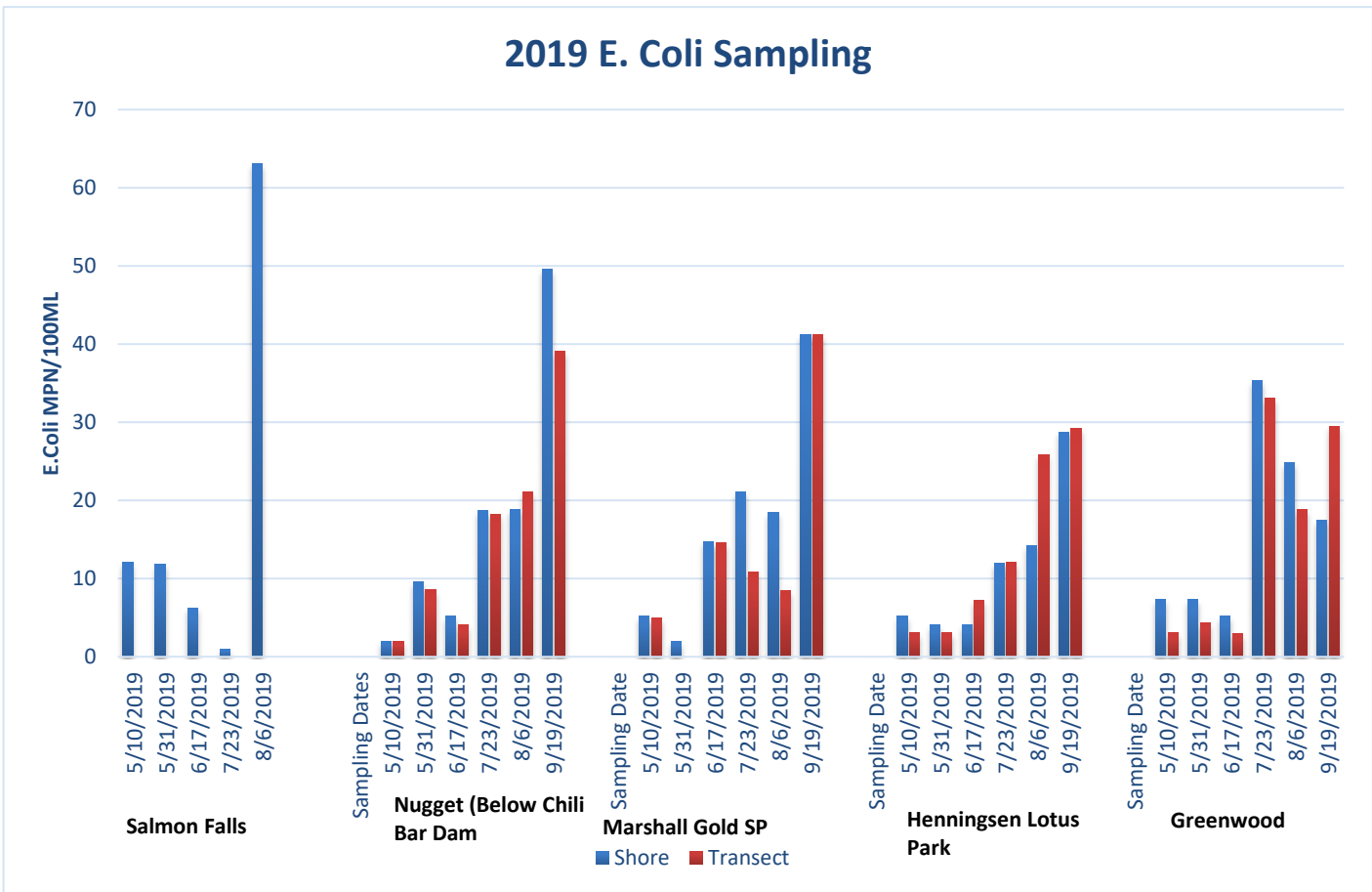
River's whitewater recreation from Chili Bar Dam to Folsom Reservoir. The implementation of the County's River Management Plan in 2018 met most of the goals and objectives laid out in the plan. The action taken by the board to adopt a new RMP will improve the County's ability to continue its role in the management of whitewater recreation on the South Fork of the American River.

The River Recreation Supervisor position was vacated in 2019, leaving the program in the early part of the season. As a result of this, there have been several issues that have come up both during the regular season and in sorting the data for the annual report. In the coming 2020 season, the County would benefit from an overhaul of the recording methods and seek alternative methods for assessing density and use patterns. Private boating activity is undoubtedly higher than the levels reflected in counts because data only exists for a selected few weekends. Commercial activity counts come from companies' monthly operating reports; there are no such systems for gathering an accurate count for total private use. It is also important to note that much of the river data was very difficult to interpret. Moving forward, staff will be revamping record-keeping methods and multiple staff will be involved with the River Program to ensure accuracy and efficiency.

County river staff operations require more accurate supervision and recording in order to ensure that time is effectively used and that staff activity aims at both commercial regulation and implementation of the RMP.

While austerity measures for density are unnecessary in 2020, significant congestion issues exist at Henningsen Lotus Park in the peak summer months. Perhaps more coordination between commercial outfitters could ease some of the mid to late afternoon congestion issues and increase enjoyment for the boating public as well as the park users.

Appendix A



Appendix B

Provided by the El Dorado County Sheriff Marine and Boating Unit

American River Summary 2019

The El Dorado County Sheriff's Office Marine Unit provides river patrol for the South Fork of the American River from the Chili Bar Dam area to the Salmon Falls take out in Folsom Lake. This jurisdiction is approximately 22 miles in length and is bordered by private property, state property, and federal property. California State Parks and the Bureau of Land Management (BLM) rangers also occasionally patrol this section of the river, but the Sheriff's Office maintains primary patrol of and rescue operations on the river. The Sheriff's Office also deals with boating education and enforcement of various county ordinances on the water and along the river edges.

This section of the river offers numerous river-related activities to include; white water rafting by both commercial and private rafters stand up paddleboarding, commercial and private kayaking, and large groups of people on personal float tubes. The tubing population mainly stays between Gold Beach in the Coloma State Park and the BLM take out near Greenwood Creek, commonly called the "C to G" section.

The Sheriff's Office was very proactive in citing people for loitering and jumping from the Salmon Falls Bridge. They also performed several search and rescue operations along the shore of the river for boaters that left their rafts voluntarily and were assisted to safety via a land route. There was one probable drowning death reported on the patrolled section of the South Fork. The incident involved a swimmer who was not wearing a PFD. The Sheriff's Office Dive Team and Unmanned Aerial Drone team performed an extensive search. However, the victim has not been found and is still listed as missing.

2019 River Patrol log

Date 4/25/19
 Flow 3K

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Wah	MG-HLP	2	40	0	no	education at Port Station River

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 5/4/19

Flow 3K - 3,600

- Accidents/First Aid
- Boater assistance - swimmers, gear
- Carrying capacity - safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone - commercial and noncommercial

Staff	River section (Put in - Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Nash Peter	EB HLP	7	28	0	0	ed + patrol
Nash Dan	HLP SKunk	14	28	0	0	ed + patrol
Peter	MBSHP HLP	2	10	0	0	ed + patrol

Notable Events - Minor/Major Rescues/Assists and First Aid

Travis AFB IK trip swimmers

Lots of trips

Solo trips w/o wetsuits

lots of kayakers

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 5/11/19

Flow ~5500

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
DAN PETER	CB → HLP	11	30	0	No	Patrol
NOAH	Bank Patrol	0	40	0	No	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Saw several companies coming through Trademaker with swimmers, but all cleaned up after themselves.

2019 River Patrol log

Date 5-12-19

Flow ~5300

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
DAN NOMM	HLP → Folsom	13	20	0	NO	Patrol
Peter	CB → HLP	8	10	0	NO	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Stopped for a break @ Fowlers & saw a raft flip, the crew was able to self-rescue and righten their boat flawlessly.

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 5-11-19

Flow 6000

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Ben Peter	CB, bleamwood	16	38			patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

observed swimmers @ trade water

2019 River Patrol log

Date 5-18-19

Flow SK+

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Nick	NA	0	50	0	0	Put in education

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 8-19-19

Flow 5K

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Abel	BWC-SF	9	20	0		P. 5th education Low cu patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 6-14-19

Flow 6500

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Byron Paul Dan	HLP → Salmon falls	12	14			patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Observed tuber rescue @ Coloma River Resort
 Tuber stranded in willow tree island.

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 5-24-19
 Flow 2200

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
DAN PETER	CB → HLP	8	15	0	No	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Watched ETC guide school paddle through Troublemaker -- Observed swimmers.

2019 River Patrol log

Date 5/25/19

Flow 2K

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Nash Petro	CB HLP	#9	30	1	0	Patrol / ed checks
Nash Dun	HLP Stank	11	30	0	0	Patrol / ed checks

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 5/26/19
 Flow 2K

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Nash	CB HLP	9	20	0	0	education
Dan Parker	HLP Skunk	11	9	0	0	education

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 9-27-19

Flow 4300

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Neah River Patrol	C6	9	16			patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 6-2-19
 Flow 4500 cfs

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Namb Peters Don	cb	9	4			patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Assisted in body recovery sweep

2019 River Patrol log

Date 6-7-19

Flow 7500 cfs

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Dan Peter	CB → HLP	9	142		3	patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2 bay area rafters in paddle cuts
flipped @ meadow/under.

2019 River Patrol log

Date 6/8/19
 Flow 6,500 cfs

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Pan Nash	Chil/Bar Salmon Falls	21	30	0	0	education + patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 6/9/19
 Flow 5,500 - 6K

- Accidents/First Aid
- Boater assistance - swimmers, gear
- Carrying capacity - safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone - commercial and noncommercial

Staff	River section (Put in - Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Dan	Chili Bar - SF	21	15	1	1	Education Patrol
Noah	HLP - SF	11	15	1	0	education + patrol

Notable Events - Minor/Major Rescues/Assists and First Aid

Helped Kayaker @ TM. ^{Rescue} Got their boat & BM
 Towed her down to it
 Picked up her kayak to shore @ HLP who was asking
 for help so she
 showed ⁽²⁾ Kayakers safe like @ Fowler's
 kayak got down stream

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 6-15-19

Flow 6K

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Noah Peter Dan Sam Ben	Chalk Bar Skunk	21	52	9	0	educate, training, patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

~~One~~ Rescued 1k from trees and returned it to
 people on shore who swim (flipped)
 educated & provided downstream safety for winged
 on how to remove
 fall @ 1st turn.

2019 River Patrol log

Date 6-21-19

Flow 4680

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Don Peter	CB → HLP	9	29			patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 6/20/19
 Flow 4,600

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Dan Savage	Lower	11	7	0	—	Education + Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Set backboard @ fowlers
 Investigated Turkey Vulture situation @ Bouncing Reck
 Saw an R.C. flip; quick + excellent recovery

2019 River Patrol log

Date 6-23-19

Flow 3500

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Dan Peter Byron Sandra	CB → Greenwood	11	40	0	—	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Uneventful day on the water

2019 River Patrol log

Date 6/22/19

Flow 4,000

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Peter Dunn	CB → HLP	9	40		—	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Observed a full-blown dump truck @ bottom of Troublemaker
 Educated folks at Coloma Resort about dangers of tying ropes
 across the channel, they happily resolved the situation

Observed a sketchy kayaker swim @ 2nd Threat, educated regarding
 proper use of tow feathers.

2019 River Patrol log

Date 6-24-19

Flow 2800

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Pyron Peter	CB → HLP	9	23			patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 6-28-19

Flow 2000

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Byron Dan	HLP → S.F.	14	40	0	—	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Companies were all compliant -- uneventful

2019 River Patrol log

Date 7-02-19

Flow 1933

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
<i>Same</i>			<i>25</i>			<i>Water samples Contact visitors Stock kiosks</i>

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 6-29-19
 Flow 2000

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Peter Samie Byron	HLP Salmon Falls	12	48			Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Observed Solo Kayaker Swim @ Satan's
 Busiest Day of Year So far.

2019 River Patrol log

Date 6-30-19

Flow 2050

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Peter Don Stanie Gyron	CB to HLP	9	25			Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Continued search for missing swimmer
 Educated beginner kayaker @ Marshall S. Park

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 7-09-19

Flow _____

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Same	Water Sampling		8			Water Sampling Shore Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 7-13-19

Flow 1800

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Dan Cummings	Gorge → Salween	14	18			count
Pete Cayson	Ch → HLP	9	48			patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

observed kayaker pinned on rocks below HLP

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 7-06-19
 Flow 1891

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Samuel Peter	CB → HLP	9	40			Patrol
Dan Byron	HLP → Salmon Falls	11				Count

Notable Events – Minor/Major Rescues/Assists and First Aid

~~many~~ Solo kayaker on CB almost swam at meatgrinder. Many tubers putting in at troublemaker, some without jackets. Tube floats tied together. Educated and informed. Educated tubers @ N. beach about using pool toys on whitewater. Educated tubers w/ deflated tubes trespassing.

2019 River Patrol log

Date 7-07-19

Flow 2000

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass ✓
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Same Peter Dan Byron	CB → HLP	9	20			Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Foul smell above 1st threat - Dead otter stuck in highwater tree line.
 Investigated left channel of 1st & 2nd threat. was a report of foul smell from there.
 Nothing found but a shoe.

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 7-08-19

Flow _____

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Samie Peter Byron	CB-HLP	9	10			patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Fire @ Ponderosa Park
 pickup Ford @ Fleet
 Bunker cleanup + Buy list composed

2019 River Patrol log

Date 7/12/19

Flow 1500

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
DAW PETER	CB → HLP	9	27	1	Y	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Observed swimming kayaker @ Trouble Maker and assisted with their kayak.

2019 River Patrol log

Date 7/14/19
 Flow 1933

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
DAW SAMPSE	CB → HLP	9	35	—	—	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Treblemaker observed rafters swimming
 AWB had big trip + was blocking access @ boat ramp from Printers

2019 River Patrol log

Date 7/15/19
 Flow 1600

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Byron Dad	Chilly 5- HR	9	15	0	-	patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

1 IK social @ TM. quick self rescue

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 9/18/19
 Flow 2000

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Bryan Darr	HLP - S.F.	12	10	2	-	patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Kayakers assisted after swim @ Fowler's
 AW. swimmers through bowless

2019 River Patrol log

Date 8-22-19

Flow 1650

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Sophie Byron	CB → HLP	9	10			Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Raft California had Egress at Flume trail.
Dislocated knee in Meatgrinder

2019 River Patrol log

Date 7/19/19
 Flow 1500

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Byron Dad	CB - HLP	9	15	-	-	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Healing waters: 4 Boat Trip; not complying with HLP

2019 River Patrol log

Date 7-20-19

Flow 1933

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Byron GAMBLE	CB → HLP 8	8	40	-	-	Count
DAN	HLP → S.H.	14	30	-	-	Count

Notable Events – Minor/Major Rescues/Assists and First Aid

Contacted a dozen tubers, w/o pfd's on C-HLP

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 7/21/19

Flow 1933

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Dave	CB → HLP	8	25	—	—	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Paddled w/ BLM
 Witnessed several rafts breaching the peanut gallery - numerous swimmers
 ↳ All self rescued/recovered well.

2019 River Patrol log

Date 7/26/19

Flow 1633

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
DAN BYRON PETER	HLP → S.H.	12	30	2	—	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Educated two young & unprepared canoeists about their egress options from the gorge
 Educated kayaker about the use of float bags and waiting for other boats to set safety before running rapids.

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 7-27-19

Flow 1933

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Dan Savage	CB → HLP	8	30	—	—	Count
Dan	MARSHALL → HLP	2	30	—	—	PATROL
Byron Peter	HLP → S. Falls	13				Count

Notable Events – Minor/Major Rescues/Assists and First Aid

Observed tuber w/ pfd get swept into strainers @ blue house
 ↳ educated about pfd ordinance

Glass use @ HLP

2019 River Patrol log

Date 7-28-19

Flow 1933

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Peter Samre Byron	CB → HLP	8	40			Patrol Education

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 7-29-19

Flow 1600

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Same Peter	HLP → Skunk Hollow	13	25			Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 7-30-19

Flow 1950

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Same			20			water Sampling.

Notable Events – Minor/Major Rescues/Assists and First Aid

Educated & assisted tubers at ~~North beach~~ Statepark to cross river and egress at north beach, after their pool toy water craft no longer held air.

Educated rafters about proper PFD wearing while navigating down River. Kids had PFD's on, Adults did not although they had them with.

2019 River Patrol log

Date 8/25/19
 Flow 1915

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
DAN	HLP → Skunk Hollow	12	40	5	—	Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Appeared on the scene of an emergency response where AWE guide was given CPR and evacuated above Satans Campool assisted with emergency responders

Helped private ratters clean up yard - sale after flipping their boat at Son of Satans

Escorted IKers who were unfamiliar with the run down to the Reservoir

2019 River Patrol log

Date 9-5-19

Flow 1630

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Samie Byron	HLP → Salmon falls	13	8			patrol & Edm

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 9-07-19

Flow 1600

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Dan	CB7HLP	9	15			Patrol & Ed
Sarah Byron		13	20	1		Patrol & Ed

Notable Events – Minor/Major Rescues/Assists and First Aid

~~20~~ Pinned Canoe just below HLP
 Cluster of Boats at Salmon Falls
 Private Boater Backed down ramp at S. Falls

2019 River Patrol log

Date 9-21-19

Flow 1600

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
Samie Anon Pekr	HLP → Salmon Falls	13	25			Patrol & Edu.

Notable Events – Minor/Major Rescues/Assists and First Aid

Pinned Kayak below Bouncing Rock
 Complaints between private & AWA
 Bath ways.

2019 River Patrol log

Date 9-12-19
 Flow 1630

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Scott Byron	CB → HLP	9	5			patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

informed & Educated 3 tubers doing the Chili Bar section, Informed them of Egress locations and kept an eye on them. Mellow quiet day.

1

2

3

2019 River Patrol log

Accidents/First Aid

Boater assistance – swimmers, gear

Carrying capacity – safety and crowding issues

Land use/Trespass

Outfitter violations

Pirate activities

Property owner contacts - Complaints

Quiet Zone – commercial and noncommercial

Date 8-2-19
 Flow 1500

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.
DAN BYRON	CB → HLP	8	20	—	—	PATROL

Notable Events – Minor/Major Rescues/Assists and First Aid

Nice, quiet day on the water
 Amazed by all the tubers wearing pfd's!

2019 River Patrol log

Date 8-13-19

Flow 1650

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Samie Byron	CB → HLP	8	15			Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

Educated IK'ers at Northbeach about leashes to paddles - need for quick release in case of entanglement
 glass use @ HLP upper trail

2019 River Patrol log

Date 8-24-19
 Flow 1900

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Peter Dan	CB → HLP	9	30			patrol
Samie Byron	HLP → S. Falls	13	40			Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date 9-06-19

Flow 1600

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Samie Byron Dan	CB → HLP	9	8			Patrol

Notable Events – Minor/Major Rescues/Assists and First Aid

2019 River Patrol log

Date _____

Flow _____

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/Maintenance	Activity: patrol, count, QZ, etc.
Samie Byron	CB → HLP	8	3	1		Patrol & Educ.

Notable Events – Minor/Major Rescues/Assists and First Aid

last Day of Patrol !!
 assisted kayaker/retrieve & pull to shore

2019 River Patrol log

Date _____

Flow _____

- Accidents/First Aid
- Boater assistance – swimmers, gear
- Carrying capacity – safety and crowding issues
- Land use/Trespass
- Outfitter violations
- Pirate activities
- Property owner contacts - Complaints
- Quiet Zone – commercial and noncommercial

Staff	River section (Put in – Take Out)	Miles Patrolled	Visitors Contacted	Boaters Assisted	Bathroom/ Maintenance	Activity: patrol, count, QZ, etc.

Notable Events – Minor/Major Rescues/Assists and First Aid