

San Antonio Creek, Indian Creek and Arroyo Hondo Fish Trapping Data Summary 2003



San Francisco Public Utilities Commission
Water Quality Bureau



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Introduction

Alameda Creek and its tributaries flow from the northwestern slopes of the Diablo Range to South San Francisco Bay. Although many of the streams within the upper reaches of the Alameda Creek watershed go dry annually, the perennial nature of portions of the larger streams provide adequate habitat for a variety of native fishes. Some of the native species currently found in and upstream of Niles Canyon include Pacific lamprey (*Lampetra tridentata*), rainbow trout (*Oncorhynchus mykiss*), hitch (*Lavinia exilicauda*), California roach (*Lavinia symmetricus*), Sacramento blackfish (*Orthodon microlepidotus*), Sacramento pikeminnow (*Ptychocheilus grandis*), Sacramento sucker (*Catostomus occidentalis*), threespine stickleback (*Gasterosteus aculeatus*) and prickly sculpin (*Cottus asper*) (Buchan, *et al.* 1962).

Portions of upper Alameda Creek and some of its tributaries have been identified as probable historic steelhead trout (*Oncorhynchus mykiss*) spawning and rearing waters by Skinner (1962), but it has been speculated that a series of barriers in and downstream of Niles Canyon, along with water storage and delivery practices within the watershed, have led to the elimination of anadromous salmonid populations in the system (Bookman-Edmonston 1995). Recent genetic studies, on the other hand, indicate that relic, non-anadromous *O. mykiss* populations continue to exist in the Alameda Creek watershed (Nielsen and Fountain 1999).

With the relatively recent listing of central California steelhead by NOAA Fisheries, under the auspices of the U.S. Endangered Species Act, as a threatened Evolutionarily Significant Unit (NARA 1997), there has been a heightened public awareness in regards to the status of salmonids within Alameda Creek and its tributaries. To address the interests of the public, along with those of both private and government agencies affected by the central coast steelhead listing, the Alameda Creek Fisheries Restoration Workgroup (Workgroup) was established (Gunther *et al.* 2000).

The Workgroup has concluded, based on an assessment of the potential for re-establishing a self-sustaining population of anadromous steelhead trout to the Alameda Creek watershed, that restoration efforts are feasible (Gunther *et al.* 2000). One major finding of the assessment is that there is a limited amount of suitable steelhead habitat in the system for spawning and juvenile rearing. There are also impassable migration barriers that currently prevent steelhead from completing their life history, and the out-migration of smolts may be limited by water project operations. On the positive side, the watershed sustains resident rainbow trout populations that appear to be descendant from native steelhead.

Self-sustaining stocks of rainbow trout exist today in San Antonio (Figure 1) and Calaveras reservoirs (Figure 2), although very little is known about their population dynamics, biology and behavior. Genetic analyses have revealed that trout from the two bodies of water are more closely related to each other than to a variety of reference collections, and that they have a close

relationship to in-migrating adult steelhead recently captured in lower Alameda Creek (Nielsen 2003). Although it is not known whether the necessary traits of ancestral anadromous trout are retained in current reservoir rainbow trout, it is important to study these populations to determine their significance to the restoration process. A familiarity with the habits and environmental requirements of reservoir trout may be directly applicable to the re-establishment of an anadromous population. Their legacy also opens up the possibility of using landlocked fish to supplement an Alameda Creek steelhead run once barrier and habitat issues have been resolved.

The goal of the fish-trapping project is to increase the understanding of resident rainbow trout populations in San Antonio and Calaveras reservoirs. The objectives of the study are to: 1) document the migratory timing of adult fish as they move out of the reservoirs and upstream to spawn, 2) determine how long adult trout remain in the streams before moving back down to the reservoirs, 3) document the timing of juvenile rainbow trout moving downstream toward the reservoirs, 4) examine correlations between fish movement and flow, water temperature and moon phase, 5) assess the proportion of juvenile trout that are displaying characteristics more similar to steelhead (i.e. smoltification) than to rainbow trout and 6) develop a data set that can be used to modify reservoir operations to support both trout in the reservoirs and steelhead once re-established in Alameda Creek and some of its tributaries.

This data summary represents the second full year of trapping following a pilot study that was conducted in the winter and spring of 2001. Following the 2002 trapping season (Enrix 2003), two major components were added to expand and improve the study. Prior to 2003, traps to catch upstream moving adults and all downstream moving fishes were setup only in San Antonio Creek above San Antonio Reservoir and the Arroyo Hondo above Calaveras Reservoir. In 2003, upstream and downstream traps were also deployed and monitored at Indian Creek, a slightly smaller tributary to San Antonio Reservoir, to examine its importance to the lake's rainbow trout population. To detail the length of time that individual adult rainbow trout spend upstream of the trap sites in San Antonio Creek, Indian Creek and the Arroyo Hondo, each upstream moving adult trout captured was tagged with a uniquely numbered Floy tag. Tag numbers were noted as marked fish were re-captured on their way back to the reservoirs. Non-tagged downstream moving adult trout (fish that moved upstream when traps were non-operational) were also tagged to maximize the number of marked fish for a population estimate study to be performed during the late summer and fall of 2003.

Trap Design, Installation and Operation

The traps for upstream migrants (Figure 3) are designed to capture relatively large adult fishes, while letting smaller individuals pass through. Each trap consists of a single holding box and weir, both constructed of 1" x 2" galvanized wire fencing. The holding boxes are equipped with a trapdoor on the front to allow fish in but not out, corner padding on the inside to protect fish, and an access panel on top to get fish out. The upstream holding boxes are installed with the trapdoor facing downstream, at the tail end of a relatively shallow pool, and secured with T-posts inserted into the creekbed. Weirs are installed, from each of the front corners of the holding box to the bank, in a downstream direction, using T-posts, braces and rope for support. The bottom, downstream edge of the box and the upstream side of the weirs are lined with sandbags to prevent fish from passing beneath the setup. In an attempt to save gear during unexpected high flows, a safety line is tied from the holding box to a nearby tree or to an additional T-post placed out of the main flow.

A SFPUC biologist with a current California Department of Fish and Game issued Scientific Collecting Permit, along with a second biologist or volunteer, check each upstream trap daily. Once on site traps are approached so as not to disturb any fishes immediately downstream of the set-up, and the presence of fishes is noted in the logbook. The holding box is checked to see if any fishes were caught. Captured fishes are removed one-at-a-time and processed (see Fish Processing below) until the holding box is empty. Other organisms collected (usually western pond turtles) are taken out of the holding box and placed just upstream of the downstream migrant trap. Prior to leaving the site the trap is cleaned of debris, checked for damage, and the access panel is closed and secured.

The downstream migrant traps (Figure 4) are designed to capture fishes of all sizes. Each trap is made of one or two plywood holding boxes, a 100-foot length of 6" flexible irrigation pipe, a funnel and weir. The holding boxes have openings equipped with cam and groove fittings at each end to allow for fish passage. Because the intent is to capture both small and large fishes, there are no trapdoors. Fishes are kept from escaping by using a relatively long length of pipe (approximately 100-feet) between the funnel and the holding box, a perforated drop-pipe in each box, and a baffle to make the downstream end the boxes more desirable. Holding boxes have an access door on top to get fish out. The funnel, that connects the irrigation pipe to the weir, is plywood, while the weir itself is constructed of 1" x 2" galvanized wire fencing lined with ¼-inch hardware cloth. Traps for downstream migrants are installed in a pool located directly below a 70- to 80-foot long riffle. The downstream most opening of the holding box is capped and the upstream opening is connected to one end of the irrigation pipe. Two holding boxes in tandem (using canvas connecting tubes) are installed if an area is expected to produce large numbers of fishes. The funnel is placed, with the wide opening facing upstream, at the downstream end of a run, glide or pool that is above the riffle upstream of the holding box. The other end of the pipe is snaked through the thalweg of the riffle, secured to the funnel and then weighted down with rubble. Weirs are installed from each side of the funnel to the bank, in an upstream direction. At extremely low flows, 2' x 8' sheets of plywood are placed lengthwise along the lower edge of the weirs to help divert water through the funnel. The funnel and weirs are supported with T-posts, braces and ropes. The bottom, upstream edge of each weir and the front edge of the funnel are lined with sandbags.

Downstream traps are checked daily by a permitted biologist and a second biologist or volunteer. Upon arrival at the site, the majority of the creek flow through the funnel is blocked and each holding box is isolated. Any large fishes collected are removed one-at-a-time and processed, while smaller individuals are removed and processed in batches (see Fish Processing below). All turtles, crayfish, frogs, toads, snakes and other organisms are taken out of the holding boxes and released immediately downstream of the upstream migrant trap. Fishes trapped in the pipe at the time of processing are left in the pipe and not included in the day's dataset. The weir, funnel and holding boxes are cleaned and checked for damage, and the lids to the boxes securely closed prior to leaving the site.

Other On-Site Procedures

In-situ water and air temperature loggers, set to take readings every 30-minutes, are placed at each trapping site for the duration of the annual monitoring effort. A single water and air temperature reading is also taken manually at all sites, each day that the traps are monitored. Manual data are only used if technical problems with the remote loggers develop.

At the start of the trapping season a vertical staff-gauge is attached to a T-post in the thalweg of each creek in the vicinity of the traps. The depth of the creeks, in inches, is recorded each day that the traps are checked. Water velocities are measured intermittently along a transect in each creek, perpendicular to the flow, with a Swoffer 3000 flow meter, and reported in cubic feet per second. A regression is used to convert daily depth readings to flow.

When monitoring both the upstream and downstream traps, the attending biologist checks for and notes any conditions that may impair the effectiveness of each setup. Solutions to problems are planned as necessary and made when practical.

Fish Processing

The fork length of each upstream and downstream moving rainbow trout is measured. When possible, the sex of adult trout is determined along with their stage of reproductive development (green, ripe or spent). Juvenile trout are examined to determine their life stage (young-of-year, parr, partial-smolt, or smolt). Scales for future age analyses are removed from just below the dorsal fin of parr, smolt and adult rainbow trout. Floy tags are used to mark all adult trout, while ½ of every tagged fish's adipose fin is clipped to determine tag loss rates.

The fork lengths of all other fishes collected are measured (total length for sculpin). Although all sculpin are enumerated, only about 20 percent of the total are measured when extremely large numbers are trapped. The sex of each adult Sacramento sucker is determined.

All upstream moving fishes are released above the downstream migrant trap, while all downstream moving fishes are released below the upstream migrant trap.

Trapping Sites and Calendar

San Antonio Creek – The San Antonio Creek traps for upstream moving adult fishes and downstream moving fishes (Figure 5) were located 1.3 miles upstream of San Antonio Reservoir at maximum pool (Figure 1), at an elevation of 530 feet (37° 35.14' N, 121° 47.32' W).

In an attempt to capture the first fishes to move out of San Antonio Reservoir, the trap for upstream migrants was installed on December 11, 2002, prior to surface flow in the creek. Due to a large winter storm, later in December, the equipment was lost and no data were collected. The trap was re-deployed on January 9, 2003. Upstream trap inspections were conducted daily. The trap for upstream moving fishes was down and not fishing from April 13 to 17 and on April 29. The trap was removed from service on April 30, 2003.

The equipment for capturing downstream migrant fishes was deployed on March 4, 2003. The trap was not fishing due to storms and high flows on March 16 to 17, April 14 to 22, April 26 (some fishes were collected on this day), April 29 to 30, May 3 to 6, May 22, and May 27 to 30. The trap for downstream moving fishes was taken down and the survey ended on June 8, 2003.

Indian Creek – The upstream and downstream (Figure 6) migrant traps on Indian Creek were at an elevation of 510 feet, approximately 0.5 miles upstream of San Antonio Reservoir at maximum pool (Figure 1) (37° 34.73' N, 121° 48.56' W).

As in San Antonio Creek, the Indian Creek trap for upstream moving fishes was set up on December 11, 2002, prior to any surface flow in the creek. Although the gear was not lost during the large December storm, it was rendered non-operational. The re-installation of the trap for upstream moving fishes was made on January 14, 2003, and the equipment was only down for three days, from April 13 to 15. The trap was removed from the stream on April 30, 2003.

The trap for downstream moving fishes was deployed on March 3, 2003. Winter and spring storms knocked this trap out of service from April 14 to 17, May 3 to 6, and June 14 to 16. Downstream migrant trapping in Indian Creek ended on June 19, 2003.

Arroyo Hondo – The trap site (Figure 7) on Arroyo Hondo was 0.4 miles upstream of Calaveras Reservoir at maximum pool (Figure 2), at an elevation of 777 feet (37° 27.79' N, 121° 46.33' W).

The Arroyo Hondo flows throughout the year, so there was no attempt to get the trap for upstream moving fishing in prior to January. The trap was setup on January 24, 2003. Although the topography makes trapping difficult due to dramatic flow fluctuations, the trap was only down from March 14 to 18 and on April 12, 2003. Because no fishes had been captured for several days prior to the blow-out on April 12, the trap was not re-installed.

On March 6, 2003, the trap for collecting downstream moving fishes was deployed. The dynamic nature of the Arroyo Hondo flows made this trap more susceptible to damage than the upstream migrant trap during storm events. It was down and not fishing on March 14 to 18, April 6, April 14 to 18, April 24 to May 13, and June 14 to 16. Because flows were barely high enough for fish to get into the trap, the equipment was taken down for the year on June 19, 2003.

Data Summary

Upstream Migrant Traps

San Antonio Creek – The San Antonio Creek trap for upstream moving fishes operated for a total of 105 days (2,478 hours) in 2003. The trap fished an average of 23.6 hours (range: 16.6 to 29.6 hours) per sampling period (fishing time between checks by biologists), with most downtime attributable to trap servicing. Only eighteen upstream migrant fishes (all rainbow trout) were collected in the trap (Table 1) for a catch rate of less than 0.01 fish per hour. Property owners living on La Costa Creek, upstream of the trap site, reported “lots of trout” in the creek shortly after the large December 2002 storm that destroyed the traps (personal communication with Rob Cyr, SFPUC Watershed Keeper).

The frequency of collecting adult rainbow trout moving upstream, over time, was examined in relation to estimated creek flow, average daily water temperature and moon phase. Although detecting patterns in fish movement at San Antonio Creek is difficult due to the small number of trout captured, it appears that most of the trout that were caught traveled during peak flows or on declining flows (Figure 8). There were peaks in flow, however, in mid-January and mid-February in which no trout were collected in the traps. Average water temperatures in San Antonio Creek ranged between about 15 and 19 degrees Celsius during trapping operations, and there was no apparent relationship between temperature and fish movement (Figure 9). Except for a single relatively sharp water temperature decline during a storm in mid-April, average temperatures slowly increased over the period that trout were collected. There were no obvious correlations between fish movement and moon phase (Figure 10). No upstream moving rainbow trout were collected after mid-April.

Indian Creek – The trap for upstream migrant fishes in Indian Creek functioned for 103 days (2,427 hours) in 2003. Fishing time averaged 23.6 hours per sampling period (range: 17.5 to 28.3 hours), and like the San Antonio Creek trap, most non-fishing time was due to active monitoring by SFPUC staff. A total of 49 rainbow trout were caught in the trap (Table 1), for a catch rate of 0.02 fish per hour. No other fishes were collected.

The movement of rainbow trout upstream was compared to estimated creek flow, average daily water temperature and moon phase. In general, larger numbers of fish tended to move when flows peaked or as they were declining following a peak (Figure 11). Average daily water temperatures between 15 and just over 20 degrees Celsius slowly increased over the period that trout were collected, with the exception of a sharp drop occurring during a spring storm (Figure 12). There did not seem to be a relationship between water temperature and upstream fish movement. Although peaks in upstream trout movement fell just before and after a waning crescent moon, the variability in the data does not suggest a reliable pattern (Figure 13). There were no upstream moving rainbow trout observed after April 10.

Arroyo Hondo – The Arroyo Hondo trap for upstream migrant fishes was operational for a total of 73 days (1,711 hours) in 2003. The traps fishing time averaged 23.4 hours per sampling period (range: 19.3 to 29.2 hours), with trap checks and maintenance accounting for the majority of the

downtime. There were 29 rainbow trout (catch rate of almost 0.02 fish per hour) and 1 Sacramento sucker collected in the trap (Table 1).

Correlations between upstream moving rainbow trout and mean daily flow, average daily water temperature and moon phase were examined for fish collected in the Arroyo Hondo. While there were more trout caught during peak and declining flows than during rising flows, this relationship was not as strong as that seen in the tributaries to San Antonio Reservoir (Figure 14). As in San Antonio and Indian creeks, average water temperatures in the Arroyo Hondo climbed steadily during the trapping operations and there was no apparent relationship between temperature and fish movement (Figure 15). The temperatures in the Arroyo Hondo were noticeably cooler than those recorded in the other two creeks, ranging from 6.5 to slightly above 13 degrees Celsius. Peaks in the daily movement of trout heading upstream occurred on either side of a waning crescent moon (Figure 16), but like the Indian Creek data, the variability makes a relationship questionable.

Downstream Migrant Traps

San Antonio Creek – The San Antonio Creek trap for downstream moving fishes operated for a total of 74 days (1,706 hours) in 2003. The trap fished for an average of 23.0 hours per sampling period (range: 17.6 to 28.0 hours), with most downtime attributable to the trap being checked for catch and servicing. A total of 13,936 downstream migrant fishes were collected in the trap, with prickly sculpin (91 percent of the total) and juvenile rainbow trout (8 percent of the total) accounting for the bulk of the catch (Table 1). Only 47 adult rainbow trout were collected.

It became increasingly difficult to tell the difference between young-of-year (YOY) rainbow trout and small parr as the trapping season progressed. To separate the two for data analyses, a size frequency histogram was constructed (Figure 17). In San Antonio Creek, YOY were defined as being smaller than or equal to 90 mm fork length, while one year old and older juvenile trout were measured between 91 and 200 mm fork length.

The frequency of collecting adult rainbow trout moving downstream, over time, was examined in relation to estimated creek flow, average daily water temperature and moon phase. In general, the majority of the adult trout moving downstream were trapped during peak flows and when flows were dropping (Figure 18), although it is difficult to substantiate this since the traps failed to fish whenever flows approached 150 cubic feet per second (cfs). The number of adult trout moving downstream did not appear to be correlated with water temperature, although it is apparent that fish stopped moving (or had all migrated back to the reservoir) once the average water temperature climbed to greater than 20 degrees Celsius (Figure 19). Adult trout moved downstream during all phases of the moon, although greater numbers of fish were observed moving close to a new moon (Figure 20).

Juvenile rainbow trout downstream movements were examined in relation to estimated creek flow and average daily water temperature. While one year old and older juvenile trout were collected from early March to late May, it took only three days, each corresponding to a unique high flow event, for almost half (46%) of the fish collected to move through the trapping site (Figure 21). The lack of parr or smolts during or after late April storm events may be an

indication that fish do not move when flows become too high. There is some indication that one-plus and older juvenile trout move in large numbers when water temperatures drop (Figure 22), but the lower temperatures may be a product of storm induced flow increases. As water temperatures rose above 20 degrees Celsius, the number and frequency of downstream migrant parr and smolts diminished. Young-of-year rainbow trout began showing up in late March, and their numbers, which correlated to peak and declining flows, were greatest throughout May (Figure 23). The presence of YOY trout in the San Antonio Creek trap was also associated with average daily water temperatures, and appears to be related to steady increases in temperature rather than a specific range of temperatures (Figure 24).

Although adult Sacramento sucker were not collected in the trap for upstream moving fishes they appeared in the downstream trap in mid-March (Table 1), and their numbers peaked in late April (Figure 25). Prickly sculpin were collected throughout the downstream trapping season, but began moving en mass in mid-May (Figure 26).

Indian Creek – The trap for downstream migrant fishes in Indian Creek functioned for 96 days (2,212 hours) in 2003. Fishing time averaged 23.0 hours per sampling period (range: 18.3 to 28.0 hours), and like the San Antonio Creek trap, most non-fishing time was due to trap checking activity by SFPUC staff. A total of 7,589 fishes were caught in the trap, with prickly sculpin (50 percent of the total) and juvenile rainbow trout (46 percent of the total) making up most of the catch (Table 1). A total of 84 adult rainbow trout were collected.

A size frequency histogram was constructed for rainbow trout collected in Indian Creek to help distinguish YOY and parr/smolt size classes for data analyses (Figure 27). Young-of-year trout measured less than or equal to 90 mm fork length, while juvenile fish born previous to 2003 ranged between 91 and 220 mm fork length.

The downstream movement of adult rainbow trout was compared in relation to estimated creek flow, average daily water temperature and moon phase. The largest number of trout moving downstream was observed one day after a peak in flow in mid-March (Figure 28). Following that storm, there were no significant increases in fish movement associated with increases in flow, which may be an indication that the majority of fish had already migrated back to the reservoir. This correlation, however, may not be completely accurate since the downstream traps were not fishing during and following two major storm events in mid-April and early May. As in San Antonio Creek, downstream fish movement did not appear to be correlated with average daily water temperatures and no trout were captured once the water remained above 20 degrees Celsius (Figure 29). The peak in downstream adult trout movement occurred in mid-March near a full moon (Figure 30).

The movement of juvenile trout downstream was also looked at in relation to estimated creek flow and average daily water temperature. While downstream migrant parr and smolt (or partial smolt) were collected from the time that the trap was initially set up in early March to late May, one-third (34%) of the fish collected moved through the trap site over a four day period in mid-March (Figure 31). Downstream movements appear to be positively related to peak and declining flows, although few fish were collected during the elevated flows in mid- to late April. The downstream movement of one year old and older juvenile trout does not seem to be affected by

water temperature, except that no fish were collected once temperatures remained warmer than 21 degrees Celsius (Figure 32). Young-of-year trout born in 2003 were first collected in mid-April, but their numbers did not increase dramatically until after the first week of May (Figure 33). The downstream movement of YOY trout is correlated with both a steady decrease in flow (Figure 33) and sustained water temperatures of greater than 18 degrees Celsius (Figure 34).

Although there were no adult Sacramento sucker collected moving out of San Antonio Reservoir, there were more than 200 fish caught moving downstream (Table 1). Adult sucker were first collected in mid-April and were essentially gone by late May (Figure 35). Downstream moving prickly sculpin were found in the Indian Creek trap throughout the spring, but their abundances were greatest from late May to the conclusion of trapping in Mid-June (Figure 36).

Arroyo Hondo – The Arroyo Hondo trap for upstream migrant fishes was operational for a total of 71 days (1,611 hours) in 2003. The fishing time averaged 22.7 hours per sampling period (range: 17.5 to 28.9 hours), with trap checks and maintenance accounting for the majority of the downtime. There were 4,524 downstream moving fishes collected, with juvenile rainbow trout (73 percent of the total) and California roach (20 percent of the total) making up the majority of the catch (Table 1). There were 103 adult trout collected.

In order to separate Arroyo Hondo YOY rainbow trout from small parr born previous to 2003 for data analyses, a size frequency histogram was created (Figure 37). The resulting plot defines YOY as fish between 11 and 100 mm fork length, while one year old and older trout were measured between 101 and 220 mm fork length.

Correlations between downstream moving adult rainbow trout and mean daily flow, average daily water temperature and moon phase were examined for fish collected in the Arroyo Hondo. Due to the relatively larger size of the Arroyo Hondo and its flashy nature, the traps for downstream moving fish were out of service often and for extended periods of time, making it difficult to compare fish movement to flow, water temperature or moon phase. The three largest peaks in fish movement suggest a positive relationship between movement and peak or declining flows (Figure 38). Although water temperatures never reached 20 degrees Celsius, trout were collected in fewer numbers and less frequently once the water began to warm (Figure 39). There was no obvious relationship between fish movement and moon phase (Figure 40).

The movement of downstream migrant juvenile trout was examined in relation to mean daily creek flow and average daily water temperature. Downstream moving rainbow trout parr, partial smolt and smolt were collected with relative regularity when the trap was fishing, but because the equipment was out of service so often due to storms and associated high flows, it is difficult to determine whether the pattern of fish movement in the Arroyo Honda was similar to patterns observed in the San Antonio Reservoir tributaries. Flow did not seem to affect the number of one year old and older trout that moved downstream when the increases were small (less than about 15 cfs), as depicted in the early April event (Figure 41). The single day that the downstream trap fished prior to the next flow increase, however, gives some indication that downstream fish movements are triggered by high flows. Temperature did not appear to influence the downstream movement of parr or smolt, although the frequency of fishless days increased as the water temperatures approached or exceeded 17 degrees Celsius (Figure 42). Young-of-year trout

heading downstream were captured throughout the sampling period, with the majority collected between late May and mid-June (Figure 43). Recognizing the lack of fishing time during high flow periods, there is some indication that the movement of YOY trout is affected by flows decreasing to less than 20 cfs. Water temperatures above 15 degrees Celsius play a more important role in triggering downstream movements of YOY in the Arroyo Hondo (Figure 44).

Only a single adult Sacramento sucker was captured when moving upstream, while 102 adults were caught in the downstream trap (Table 1). Downstream migrant suckers were first captured in late March, with most of the fish passing through the Arroyo Hondo trap site between mid-May and mid-June (Figure 45). Although it is unclear when the sucker moved upstream because the trap for collecting migrants heading out of the reservoir was removed in mid-April, it can be speculated that the majority of the five traveled upstream during the increased flows of late April and early May. California roach were collected in the downstream trap throughout the study, with peaks in mid-April, late April, mid-May and early to mid-June (Figure 46).

Tagged Adult Rainbow Trout

Not all upstream moving adult rainbow trout that were tagged were recaptured in the downstream traps, and not all downstream moving adult fish were tagged during their upstream migration. Upstream moving fish that were tagged but not recaptured may have migrated back to the reservoir when the downstream trap was down, or they may have remained upstream or perished. Downstream migrant adult trout that did not have tags (or adipose fin clips indicating that they were tagged but lost the tag) likely moved upstream of the trap site prior to the date trapping started or during a period of extremely high flow when the traps were down.

San Antonio Creek – A total of 57 adult rainbow trout were tagged in San Antonio Creek, with 21 fish tagged on their way upstream (includes fish collected in the trap and fish from between the traps) and 36 fish tagged when moving downstream (Table 2). Of the 21 upstream moving fish tagged, 52 percent were recaptured in the downstream trap. Seventy-seven percent of the 47 downstream moving fish were not previously tagged.

Trout tagged in the upstream migration from San Antonio Reservoir and recaptured when moving back downstream remained upstream of the trap site for as little as a single day up to 35 days (Table 2, Figure 47). The minimum and maximum number of days a fish was upstream of the trap site can be calculated assuming there are no resident adult trout living year-round in this stream, and any non-tagged downstream moving trout caught prior to April 14, when both the upstream and downstream traps blew out, had moved upstream before January 9 when both traps were initially set up. The 20 trout in this category were caught in the downstream trap between March 12 and April 13, indicating that they were in the creek for at least 62 to 94 days. After the first trap blow out there is no way to determine when downstream moving non-tagged fish made their way upstream of the trap site, and consequently it is not possible to calculate how long those fish were in the creek.

Indian Creek – Forty-nine adult trout were tagged when moving upstream in Indian Creek and 54 adult fish were tagged when moving back to the reservoir, yielding a total of 103 tagged rainbow trout (Table 2). Fifty-three percent of the trout that were tagged on their way upstream

were captured again when moving back downstream. Of the 80 fish captured in the downstream trap, 68 percent had not been tagged when migrating upstream.

Indian Creek adult rainbow trout that were tagged on their way out of San Antonio Reservoir and recaptured on their way back downstream remained upstream of the trap site for as little as one day to up to 39 days (Table 2, Figure 48). The same assumptions about non-tagged trout that are caught on their way downstream prior to the first time that both traps blow out, that were made for San Antonio Creek fish, can be made for trout in Indian Creek. With an initial trap installation date of January 14, the 33 non-tagged adult fish captured in the downstream trap between March 5 and April 5 must have been in the stream for a minimum of 49 to 80 days.

Arroyo Hondo – In the Arroyo Hondo, a total of 129 adult rainbow trout were tagged, with 29 fish tagged when moving upstream and 100 trout tagged on their way downstream (Table 2). Of the 29 fish that were tagged while moving upstream, only 10 percent were recaptured when migrating back downstream. Ninety-seven percent of the downstream migrant adult trout had not been previously tagged when moving upstream.

Upstream migrant trout tagged in the Arroyo Hondo and recaptured again when moving back downstream remained upstream of the trap site for as few as 14 days to up to 31 days (Table 2, Figure 49). Because there are resident trout that remain in the Arroyo Hondo year-round (personal observation by Brian Sak, SFPUC Biologist), the San Antonio and Indian creek assumptions made about non-tagged fish captured in the downstream trap prior to both traps blowing out for the first time can not be made for the Arroyo Hondo.

Summary

- Although not collected during trapping operations, adult rainbow trout moved out of San Antonio Reservoir as early as late December. Upstream moving adult trout were collected in traps above both San Antonio and Calaveras reservoir between mid-February and early April, while downstream moving fish were caught from early March through mid-June.
- The number of days that adult rainbow trout remained upstream of each of the trap sites was highly variable, ranging from one to 94 days in San Antonio Creek, one to 80 days in Indian Creek and 14 to 31 days in the Arroyo Hondo.
- Downstream migrant parr/smolt showed up in traps right after the equipment was deployed in early March, so it is not possible to determine when fish begin to move. The bulk of the parr/smolt were collected between mid-March and mid-May. Parr/smolt were caught as late as mid-June.
- Young-of-year rainbow trout first showed up in the downstream migrant traps in early March, and were collected through the end of the survey in mid-June. The largest numbers of fish were caught throughout the month of May and into June.
- Of the three variables examined (flow, water temperature and moon phase), the upstream movements of adult rainbow trout appears to be most closely correlated to flow, although low numbers of fish and the equipment's inability to fish over the entire range of flows encountered make it difficult to quantify cause-and-effect relationships. Most adult rainbow trout were caught during peak or declining flows.
- The majority of the downstream moving adult rainbow trout were collected during peak or dropping flows. Downstream migrant adult trout virtually disappeared from the streams, regardless of flow, when water temperatures exceeded 20 degrees Celsius.
- There is some indication that the downstream movements of juvenile rainbow trout (one year old and older) is positively correlated to flow. There were high flow events, however, in which few juvenile trout were collected. The number of juvenile trout collected declined after water temperatures stabilized above 20 degrees Celsius.
- Downstream moving young-of-year (fish born this year) rainbow trout displayed a negative relationship to flow, while their presence in the traps was closely tied to a sustained increase in water temperature.

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**San Antonio Creek, Indian Creek and Arroyo Hondo
Fish Trapping Data Summary 2003**

TABLES and FIGURES

San Antonio Creek, Indian Creek and Arroyo Hondo

Table 1. Total catch summary for 2003 trapping on San Antonio Creek, Indian Creek and Arroyo Hondo. Grayed out boxes indicate fishes that the upstream traps were not designed to catch.

| | San Antonio Creek | | Indian Creek | | Arroyo Hondo | | Totals |
|------------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|--------|
| | Upstream Moving Fish | Downstream Moving Fish | Upstream Moving Fish | Downstream Moving Fish | Upstream Moving Fish | Downstream Moving Fish | |
| bluegill | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| brown bullhead | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| common carp | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| California roach | | 1 | | 5 | | 925 | 931 |
| fathead minnow | | 0 | | 0 | | 1 | 1 |
| green sunfish | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| prickly sculpin | | 12,712 | | 3,758 | | 15 | 16,485 |
| rainbow trout (adults) | 18 | 47 | 49 | 84 | 29 | 103 | 330 |
| <i>female - green</i> | 10 | 5 | 19 | 2 | 14 | 7 | 57 |
| <i>female - ripe</i> | 3 | 5 | 23 | 10 | 12 | 7 | 60 |
| <i>female - spent</i> | 0 | 24 | 1 | 32 | 0 | 38 | 95 |
| <i>female - not recorded</i> | 0 | 1 | 0 | 4 | 0 | 1 | 6 |
| <i>male - green</i> | 0 | 2 | 1 | 2 | 1 | 4 | 10 |
| <i>male - ripe</i> | 5 | 5 | 4 | 7 | 2 | 21 | 44 |
| <i>male - spent</i> | 0 | 5 | 0 | 14 | 0 | 22 | 41 |
| <i>male - not recorded</i> | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| <i>unknown</i> | 0 | 0 | 1 | 13 | 0 | 2 | 16 |
| rainbow trout (juveniles) | | 1,069 | | 3,529 | | 3,316 | 7,914 |
| <i>young-of-year</i> | | 959 | | 3,404 | | 3,206 | 7,569 |
| <i>parr</i> | | 14 | | 9 | | 17 | 40 |
| <i>partial smolt</i> | | 63 | | 69 | | 45 | 177 |
| <i>smolt</i> | | 30 | | 40 | | 46 | 116 |
| <i>unknown</i> | | 3 | | 7 | | 2 | 12 |
| Sactamento pikeminnow | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Sactamento sucker | 0 | 103 | 0 | 212 | 1 | 158 | 474 |
| <i>adult - female</i> | 0 | 47 | 0 | 57 | 0 | 39 | 143 |
| <i>adult - male</i> | 0 | 37 | 0 | 141 | 1 | 37 | 216 |
| <i>adult - not recorded</i> | 0 | 3 | 0 | 13 | 0 | 26 | 42 |
| <i>juvenile</i> | | 16 | | 1 | | 56 | 73 |
| Totals | 18 | 13,936 | 49 | 7,589 | 30 | 4,524 | 26,146 |

Table 2. *Tagged adult rainbow trout tracking summary for 2003 trapping on San Antonio Creek, Indian Creek and Arroyo Hondo. All upstream moving fish were tagged and all downstream moving fish that were not tagged on their way upstream were tagged. The number of days that trout spent above the traps is based on fish that were tagged moving upstream and re-caught moving downstream.*

| Number of Individual Fish Collected | San Antonio Creek | Indian Creek | Arroyo Hondo |
|---|-------------------|--------------|--------------|
| Moving upstream | 21 | 49 | 29 |
| Moving downstream | 47 | 80 | 103 |
| Moving up then re-caught moving down | 11 | 26 | 3 |
| | | | |
| Fewest number of days fish above traps | 1 | 1 | 14 |
| Longest number of days fish above traps | 35 | 39 | 31 |
| Average number of days fish above traps | 6.5 | 9.7 | 23.3 |

Figure 1. *San Antonio Reservoir, San Antonio Creek and Indian Creek, with the location of trapping sites marked for each stream (green fish represents the San Antonio Creek site and red fish represents the Indian Creek site).*

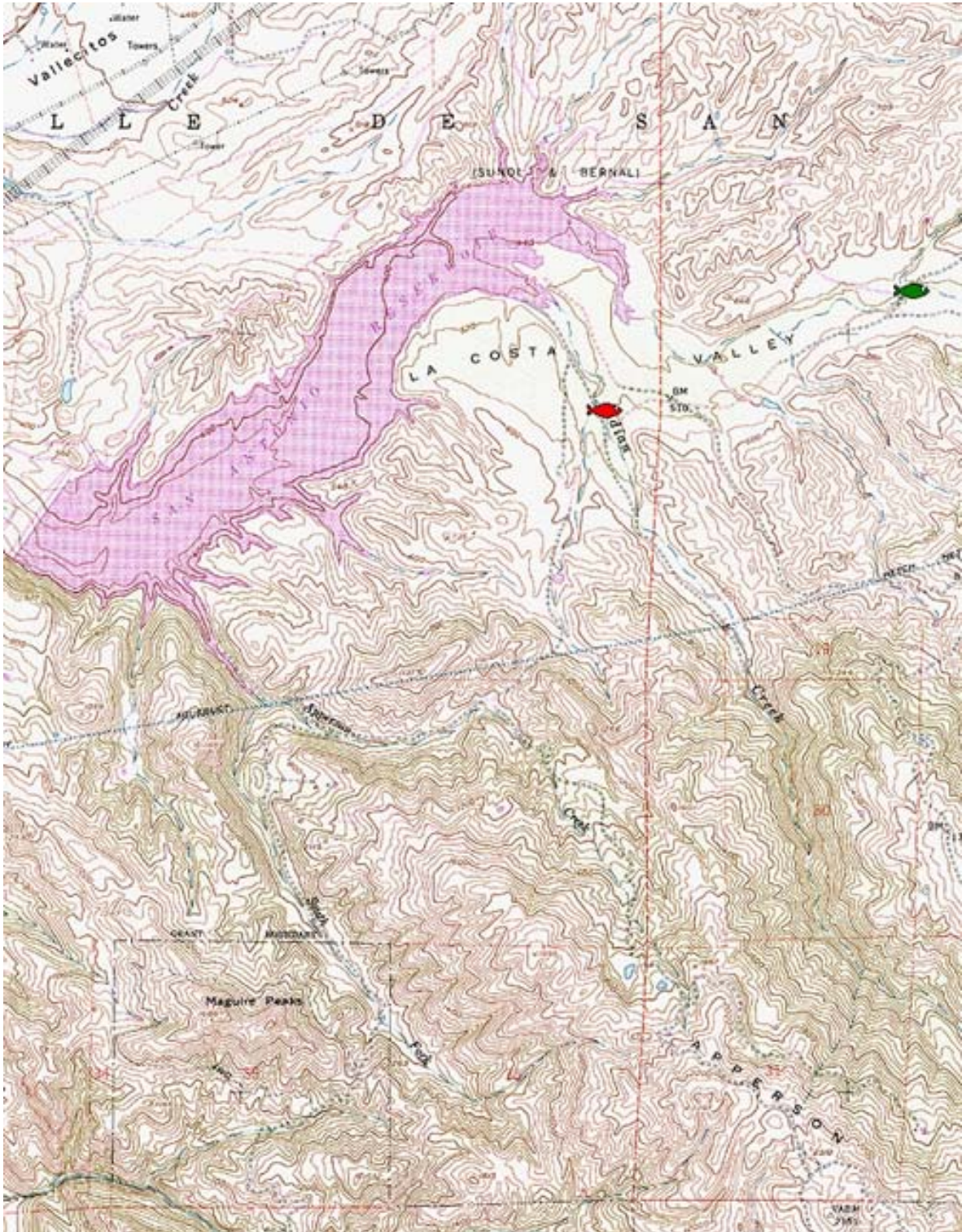


Figure 2. *Calaveras Reservoir and Arroyo Hondo, with the location of the trapping site marked for the stream (blue fish represents the Arroyo Hondo site).*



Figure 3. Configuration of trap designed to catch upstream moving fishes.

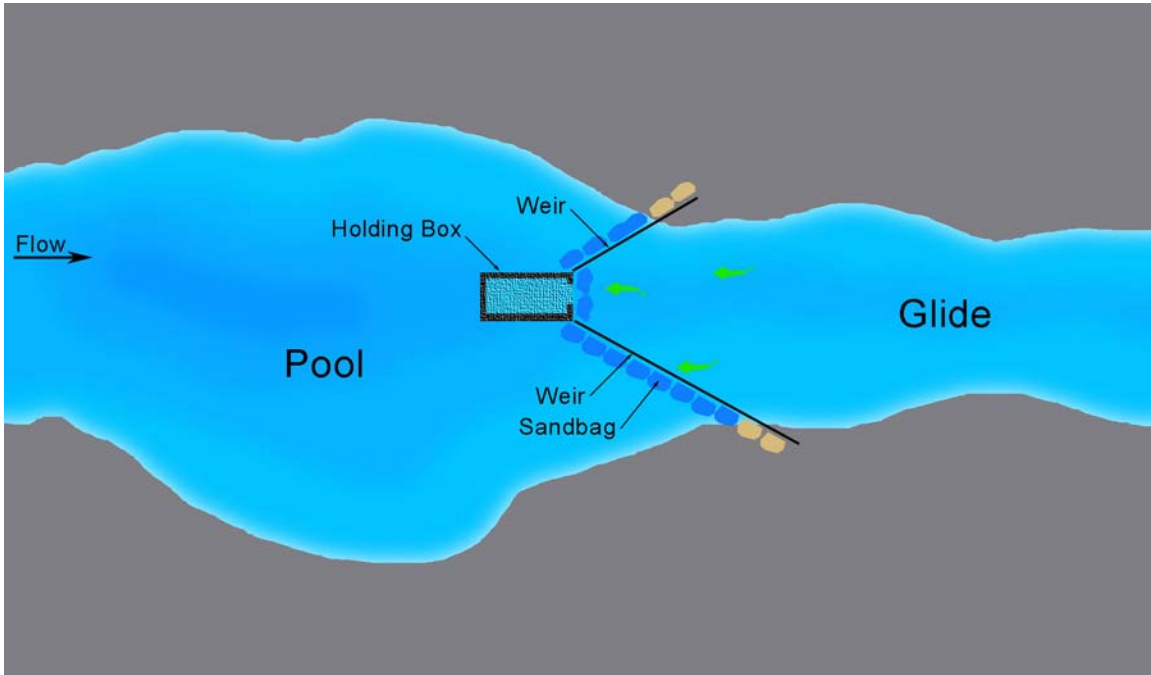


Figure 4. Configuration of trap designed to catch downstream moving fishes.

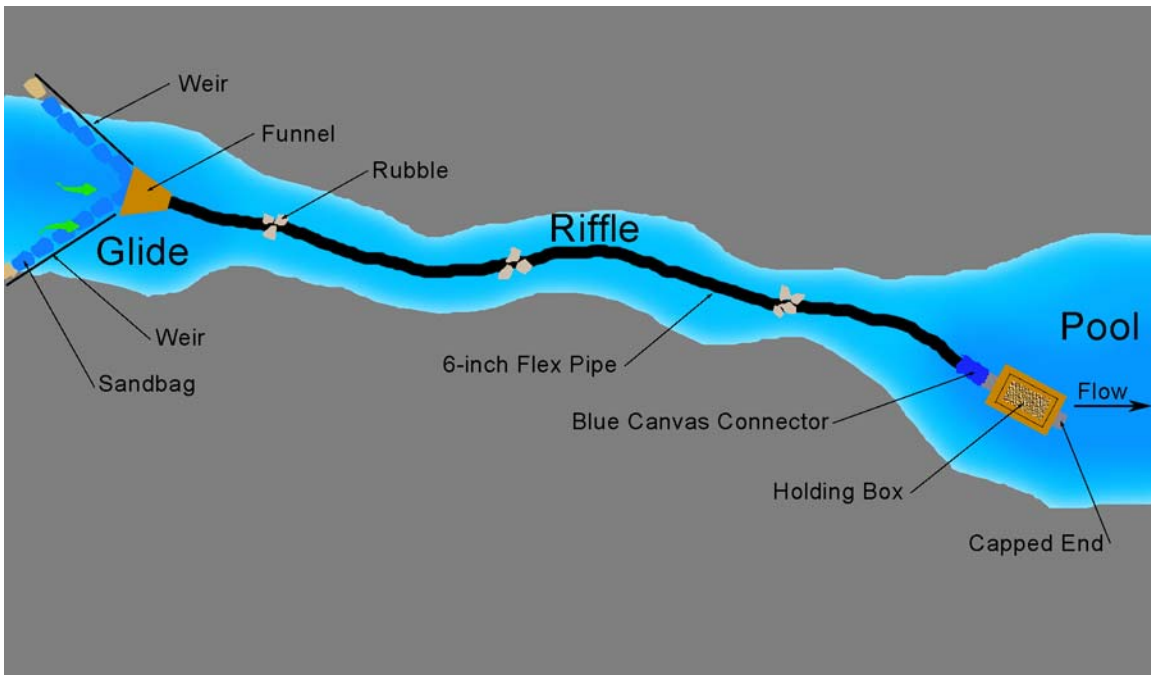


Figure 5. *San Antonio Creek trapping site – trap for downstream migrating fish, looking in an upstream direction.*



Figure 6. *Indian Creek trapping site – trap for downstream migrating fish, looking in an upstream direction.*



Figure 7. *Arroyo Hondo trapping site – trap for downstream migrating fish, looking in an upstream direction.*



Figure 8. San Antonio Creek, upstream moving adult rainbow trout (bar) and flow (line).

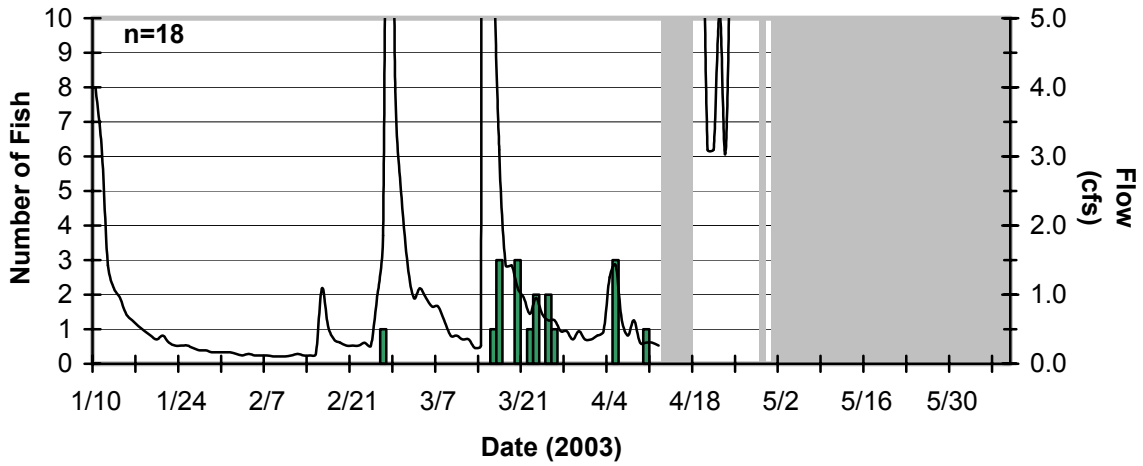


Figure 9. San Antonio Creek, upstream moving adult rainbow trout (bar) and water temperature (line).

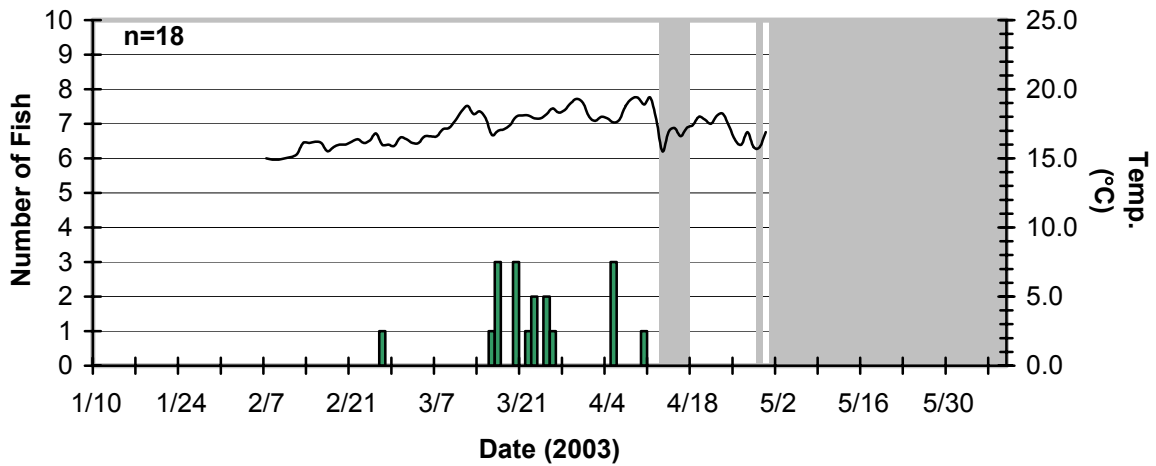


Figure 10. San Antonio Creek, upstream moving adult rainbow trout (bar) and moon phase (symbol).

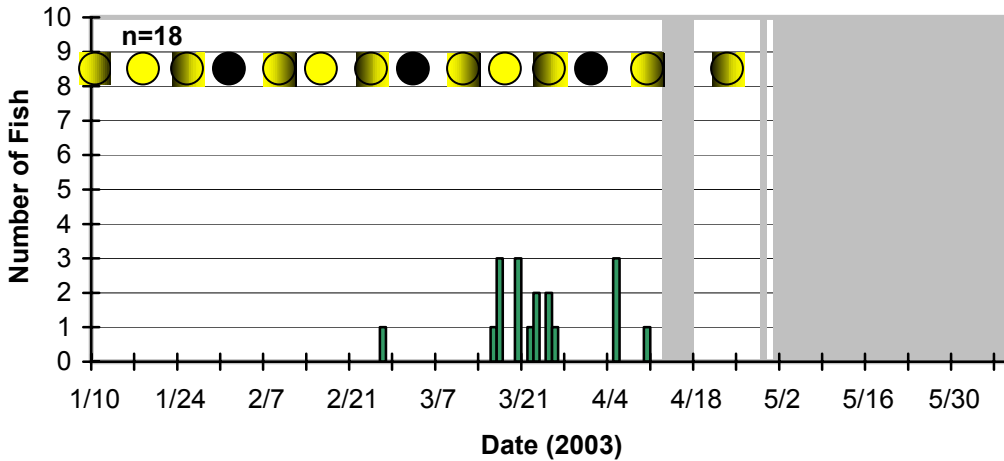


Figure 11. Indian Creek, upstream moving adult rainbow trout (bar) and flow (line).

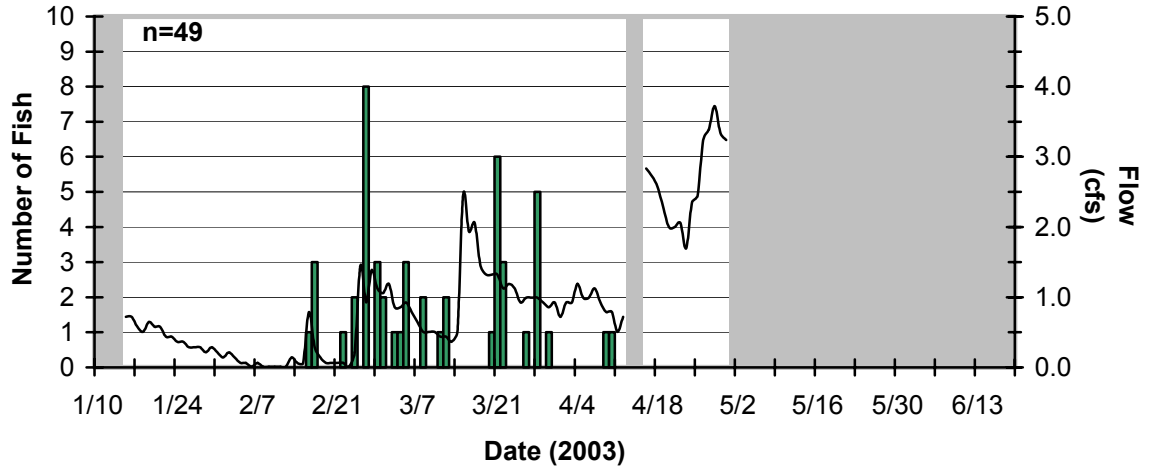


Figure 12. Indian Creek, upstream moving adult rainbow trout (bar) and water temperature (line).

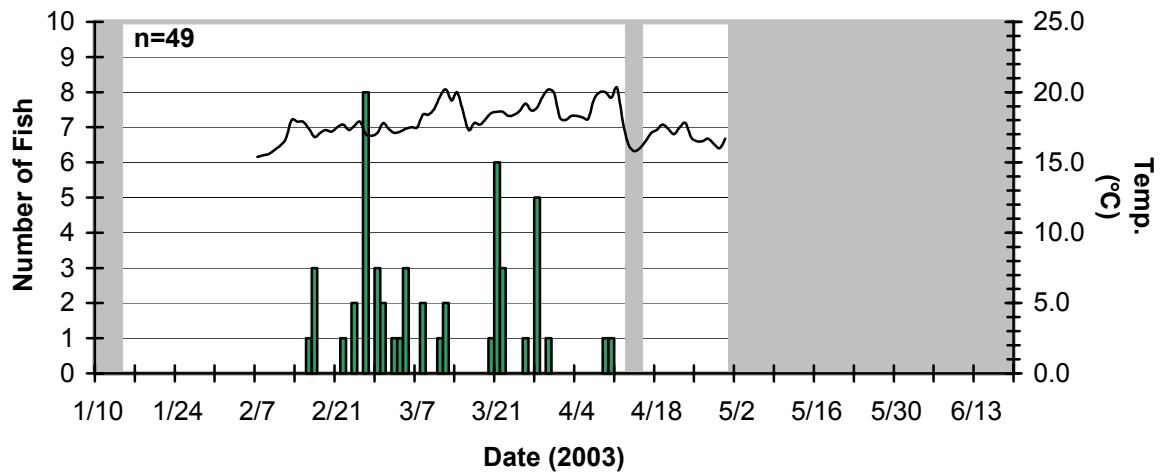


Figure 13. Indian Creek, upstream moving adult rainbow trout (bar) and moon phase (symbol).

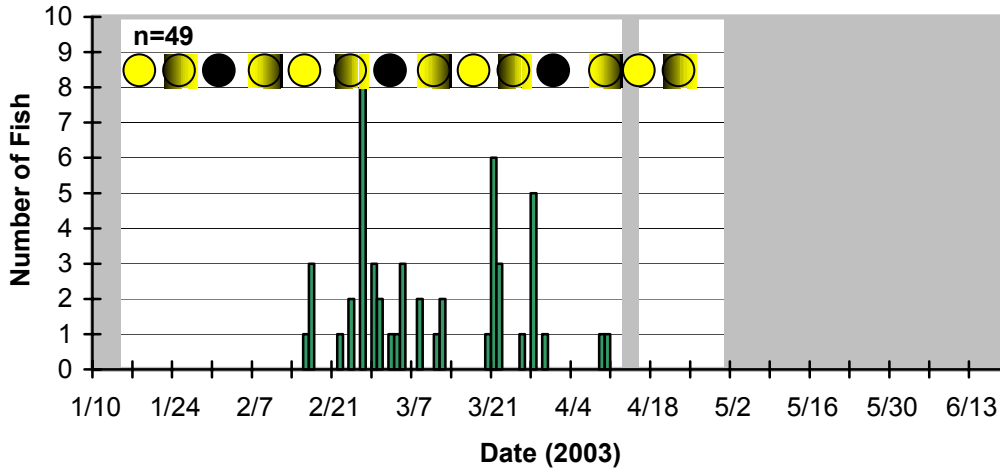


Figure 14. Arroyo Hondo, upstream moving adult rainbow trout (bar) and flow (line).

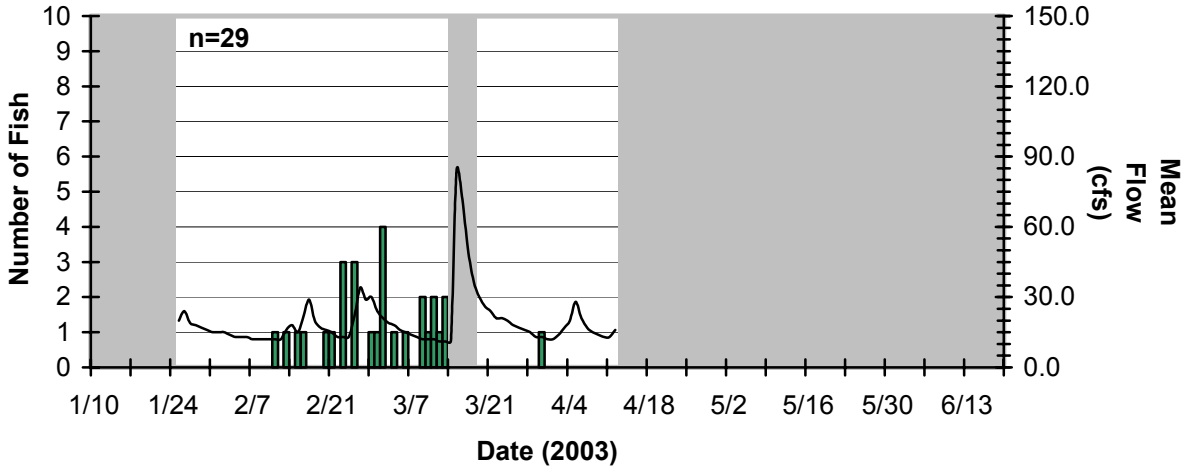


Figure 15. Arroyo Hondo, upstream moving adult rainbow trout (bar) and water temperature (line).

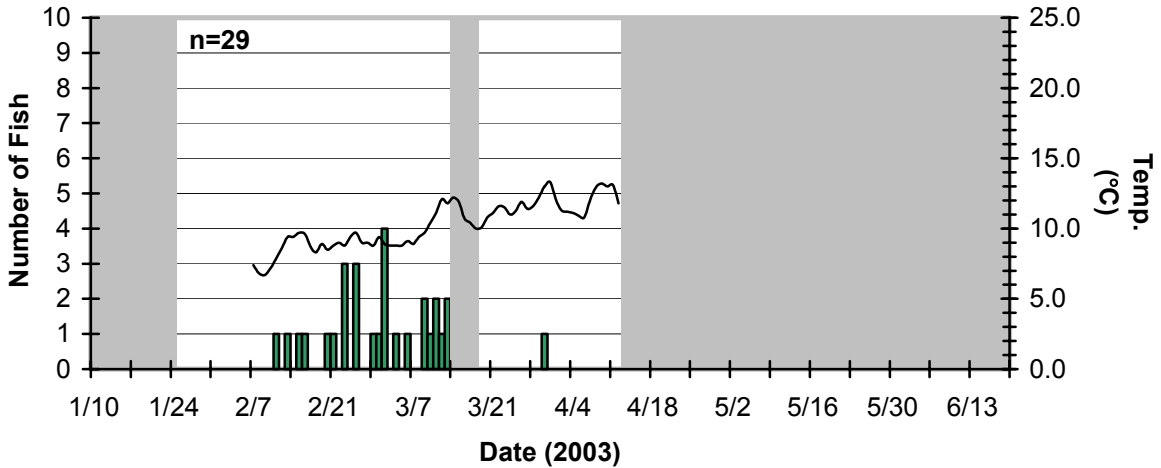


Figure 16. Arroyo Hondo, upstream moving adult rainbow trout (bar) and moon phase (symbol).

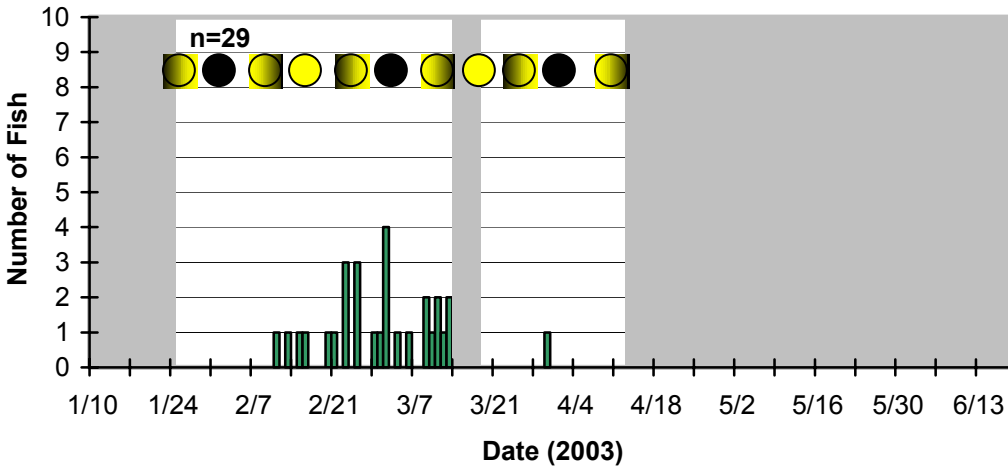


Figure 17. Rainbow trout size frequencies for all of the fish collected from San Antonio Creek.

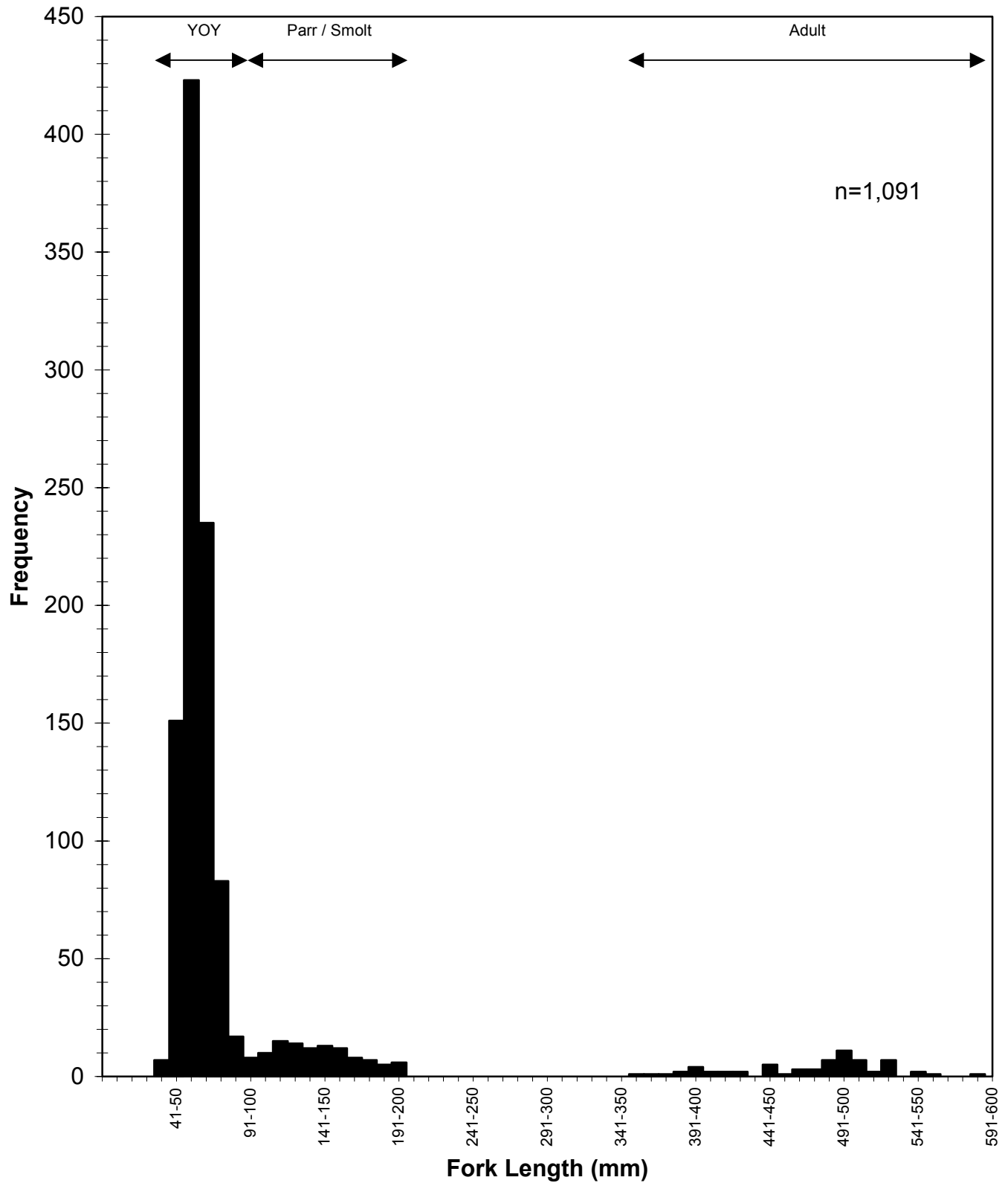


Figure 18. San Antonio Creek, downstream moving adult rainbow trout (bar) and flow (line).

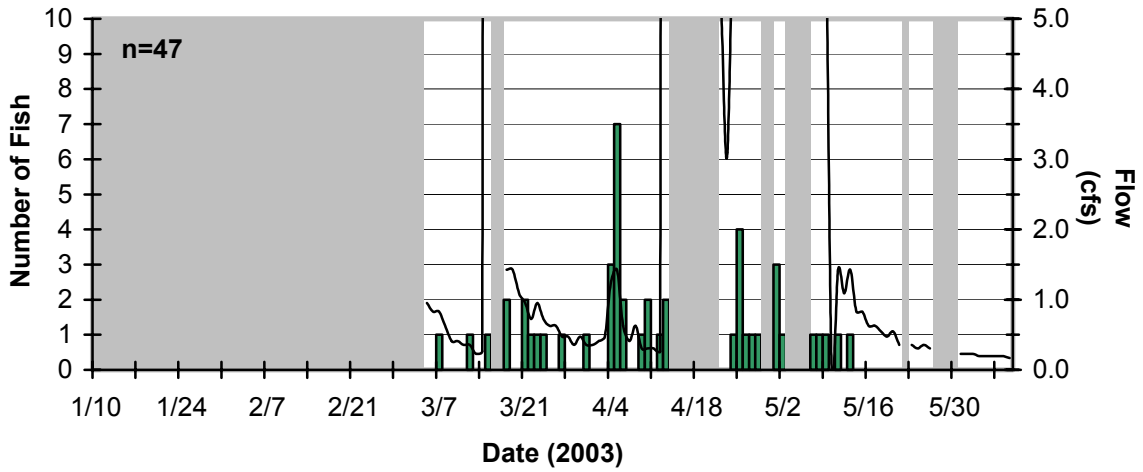


Figure 19. San Antonio Creek, downstream moving adult rainbow trout (bar) and water temperature (line).

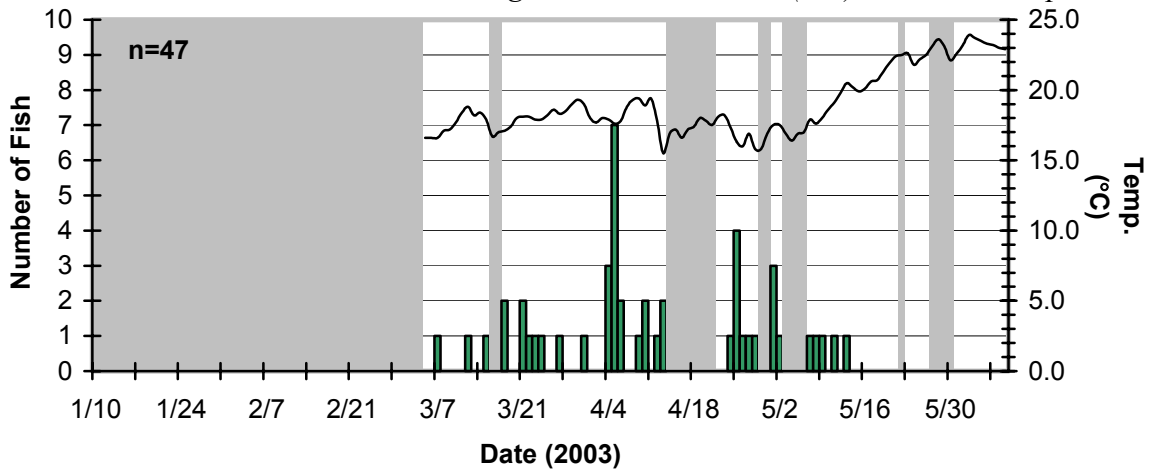


Figure 20. San Antonio Creek, downstream moving adult rainbow trout (bar) and moon phase (symbol).

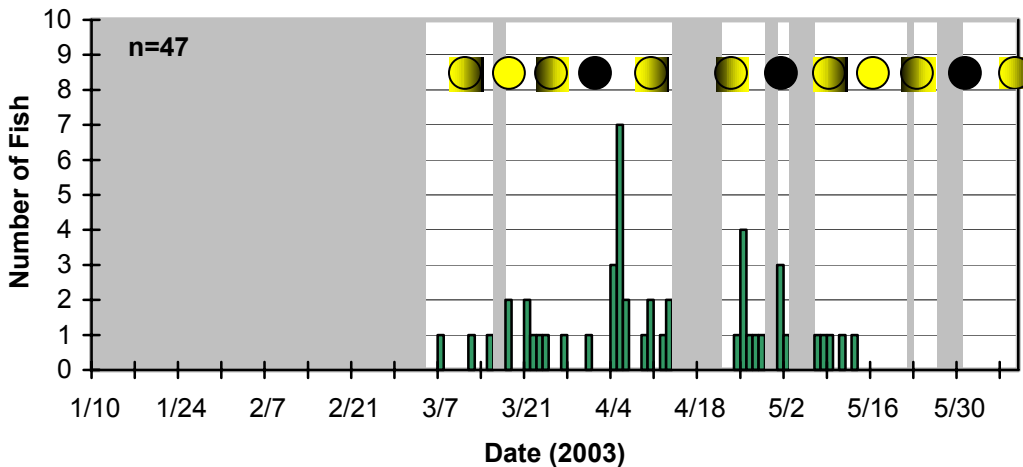


Figure 21. San Antonio Creek, downstream moving rainbow trout parr/smolt (bar) and flow (line).

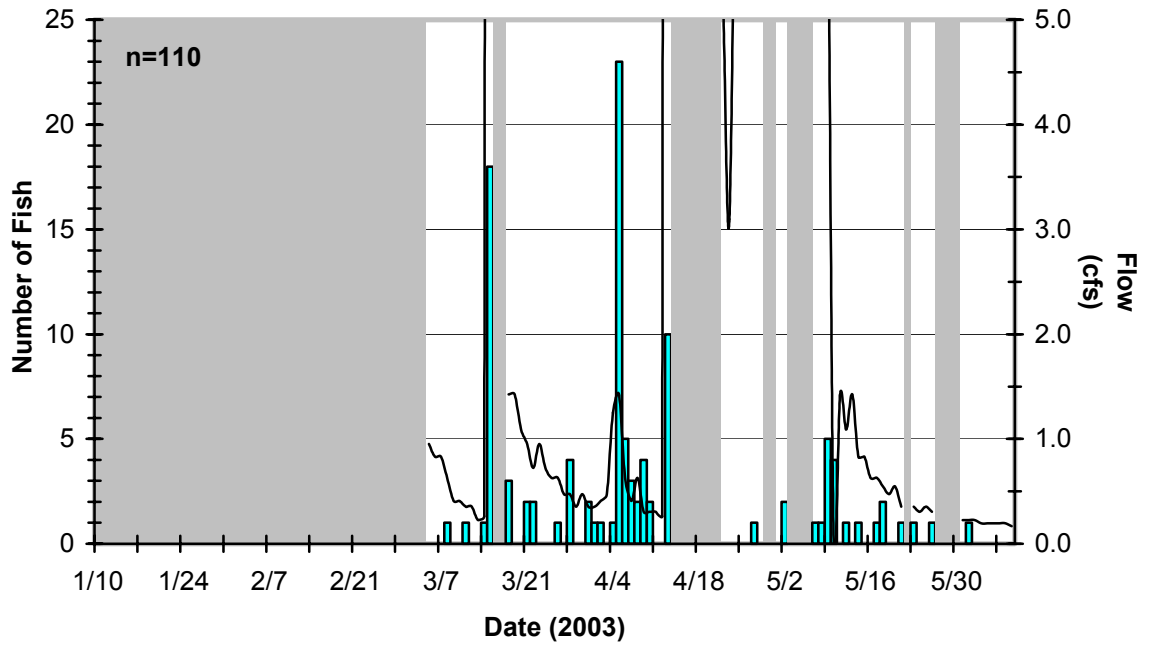


Figure 22. San Antonio Creek, downstream moving rainbow trout parr/smolt (bar) and water temperature (line).

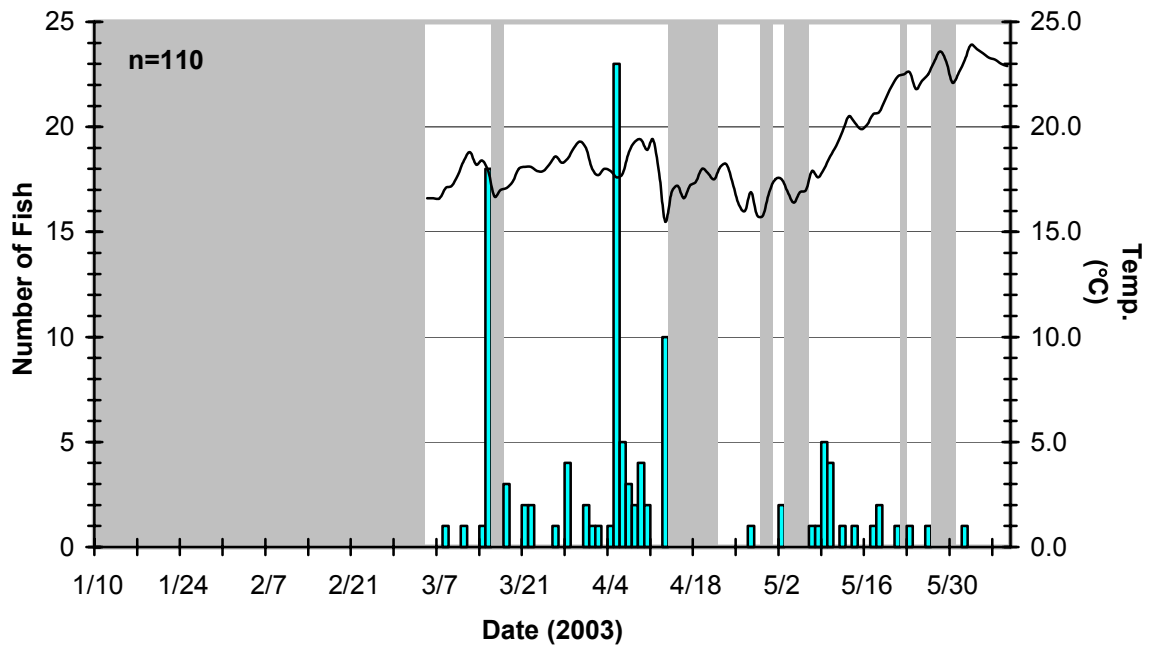


Figure 23. San Antonio Creek, downstream moving rainbow trout YOY (bar) and flow (line).

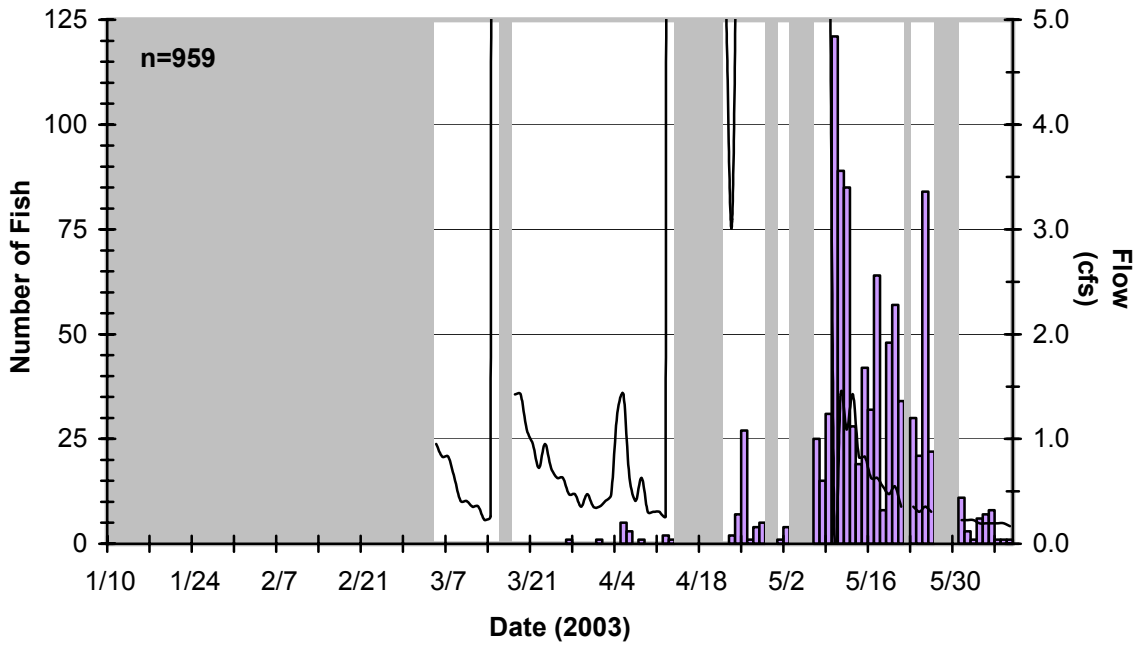


Figure 24. San Antonio Creek, downstream moving rainbow trout YOY (bar) and water temperature (line).

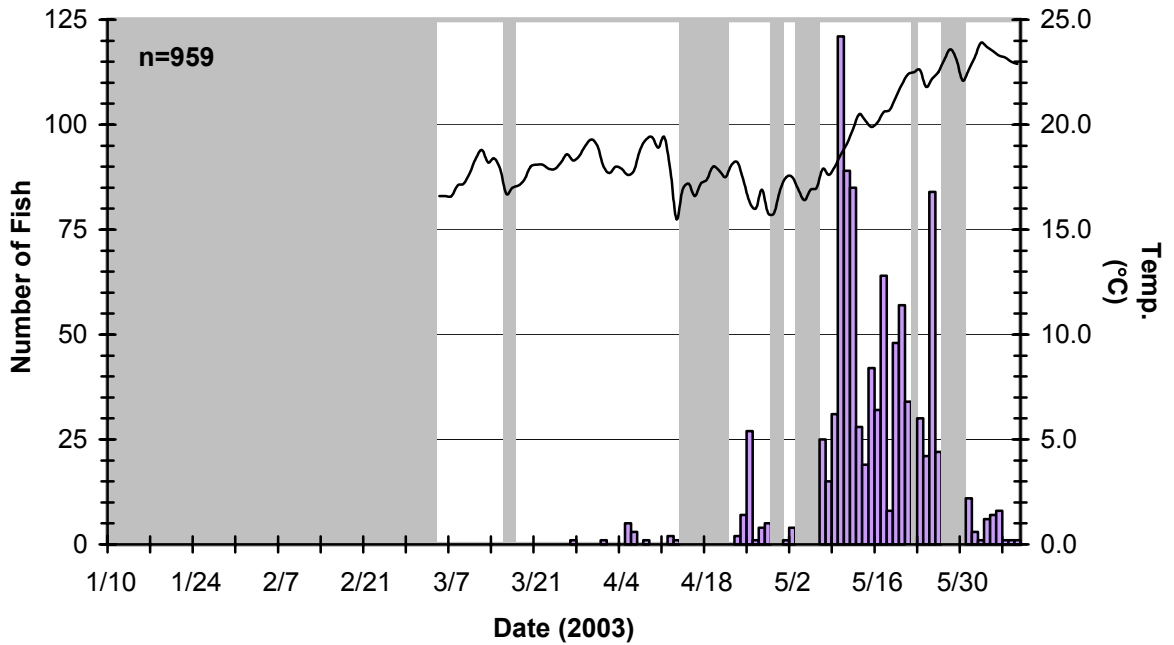


Figure 25. San Antonio Creek, downstream moving Sacramento sucker (bar).

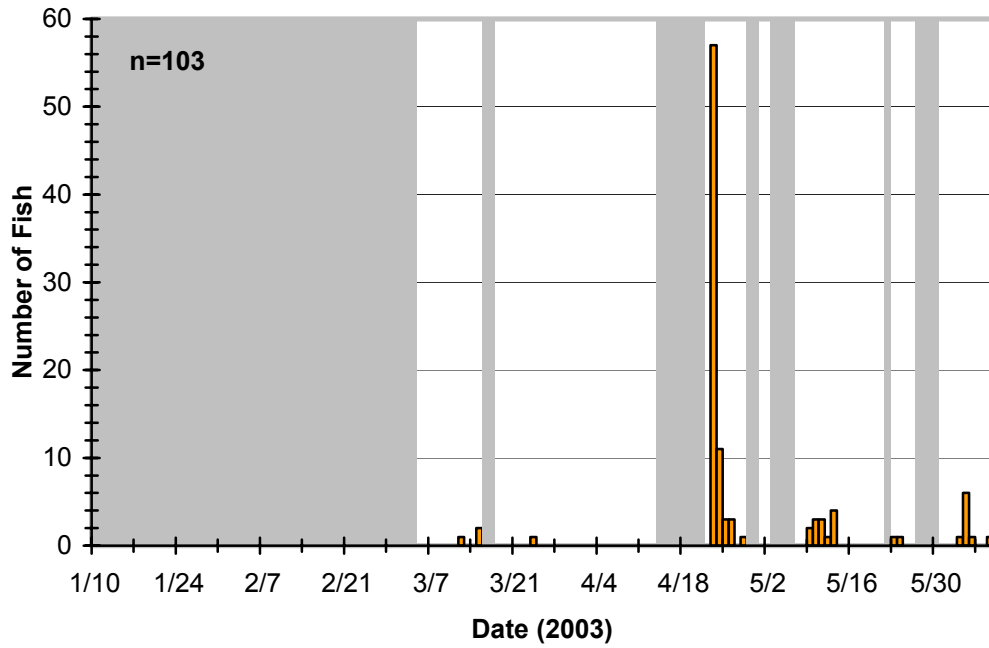


Figure 26. San Antonio Creek, downstream moving prickly sculpin (bar).

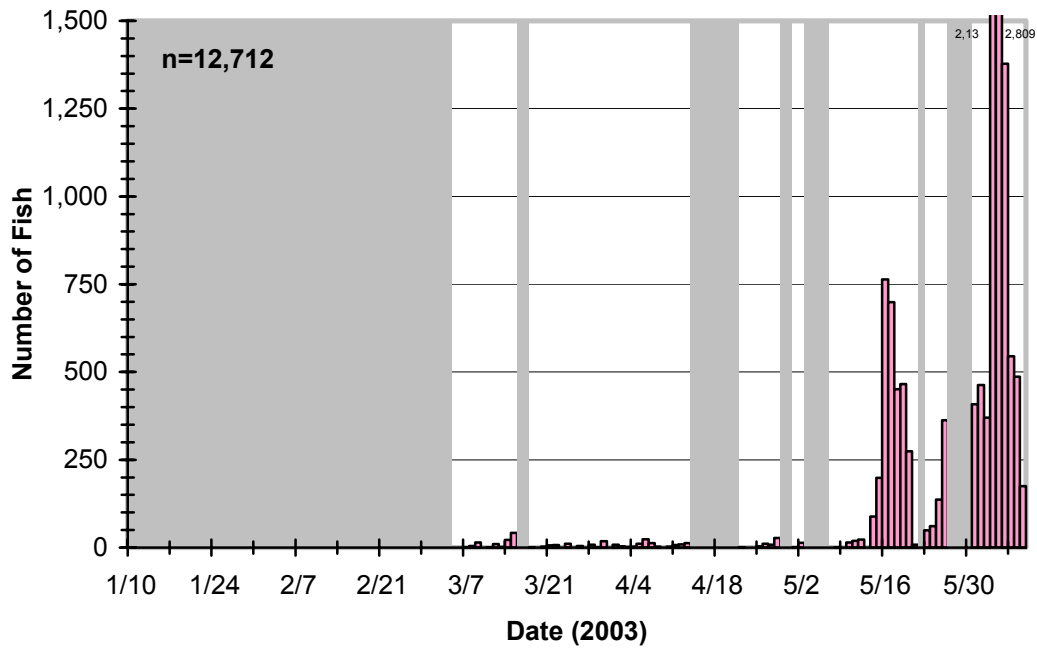


Figure 27. Rainbow trout size frequencies for all of the fish collected from Indian Creek.

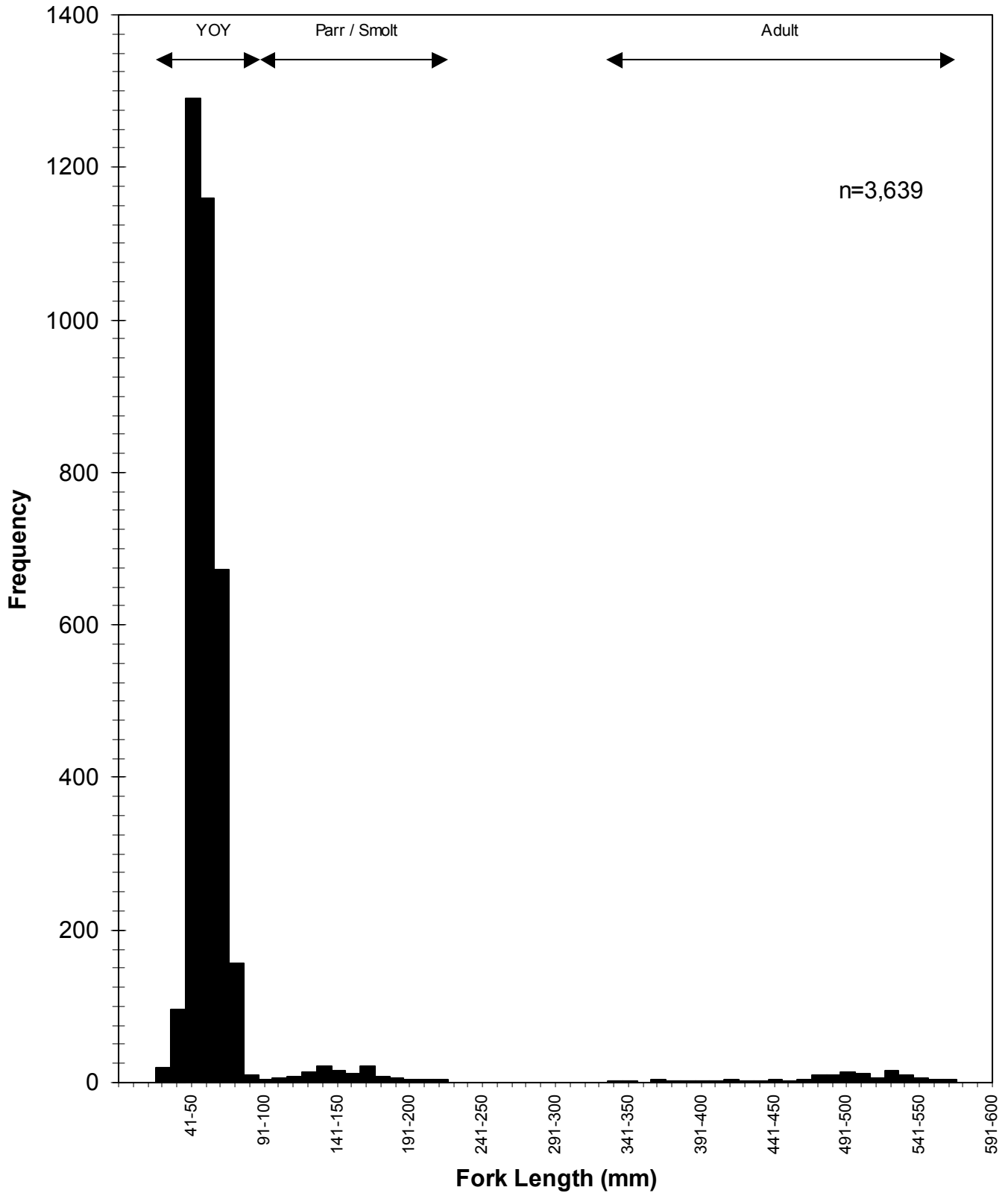


Figure 28. Indian Creek, downstream moving adult rainbow trout (bar) and flow (line).

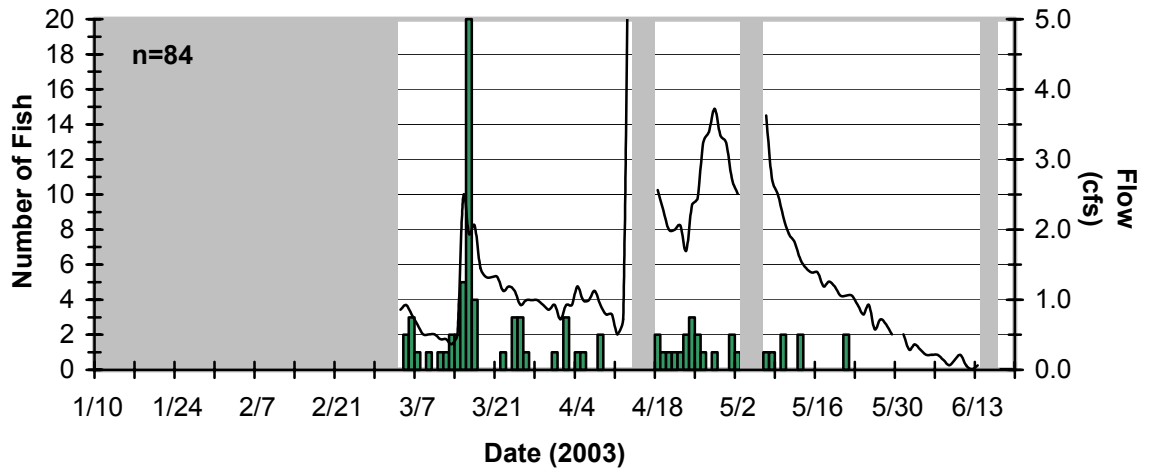


Figure 29. Indian Creek, downstream moving adult rainbow trout (bar) and water temperature (line).

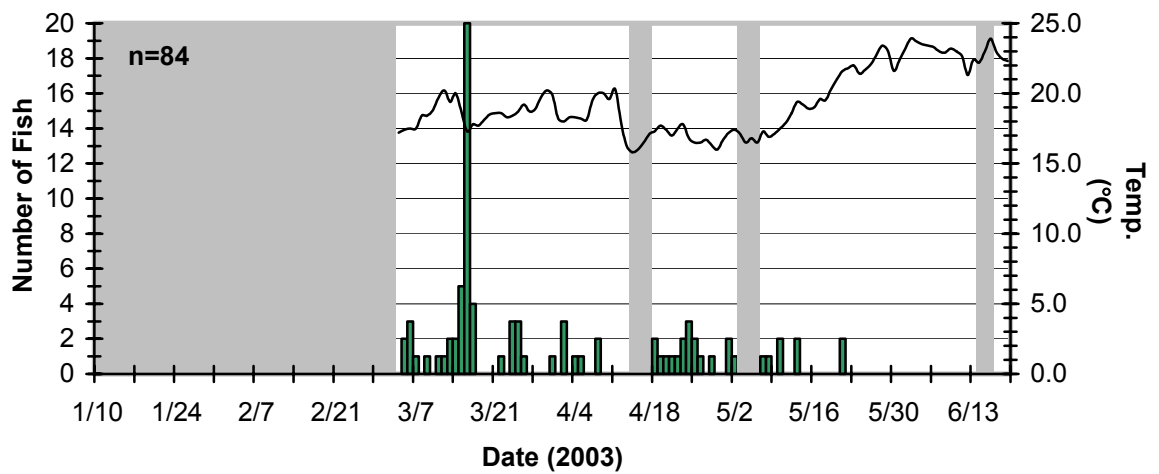


Figure 30. Indian Creek, downstream moving adult rainbow trout (bar) and moon phase (symbol).

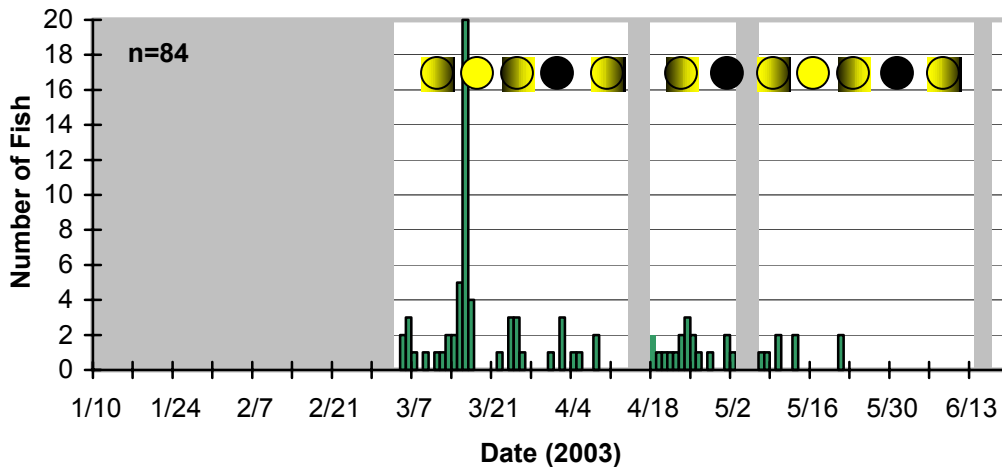


Figure 31. Indian Creek, downstream moving rainbow trout parr/smolt (bar) and flow (line).

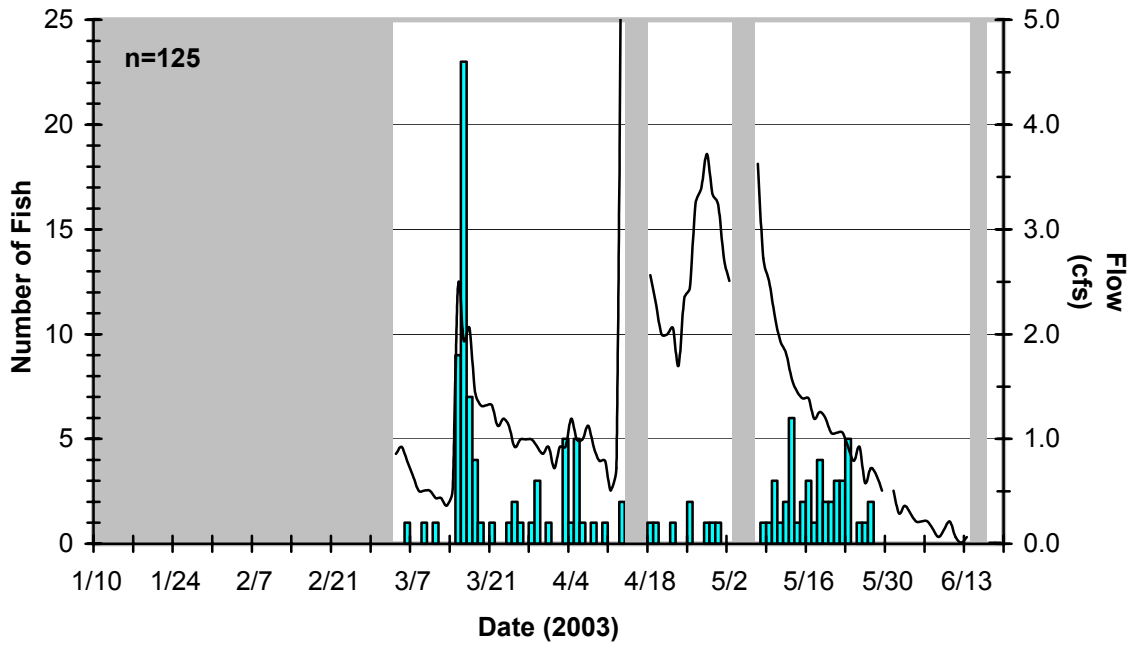


Figure 32. Indian Creek, downstream moving rainbow trout parr/smolt (bar) and water temperature (line).

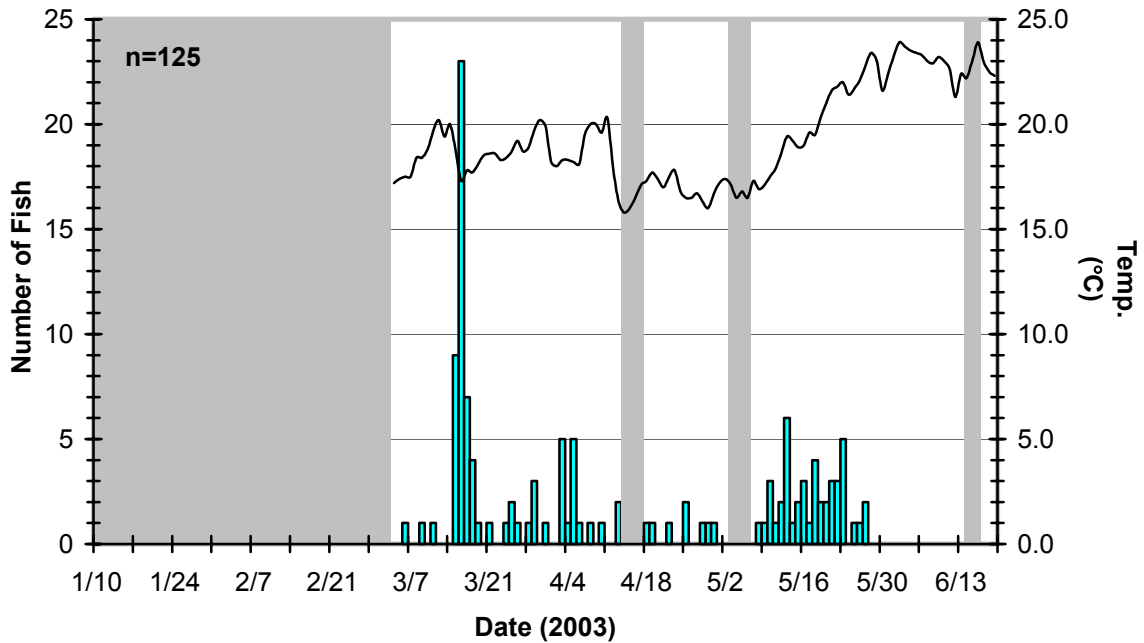


Figure 33. Indian Creek, downstream moving rainbow trout YOY (bar) and flow (line).

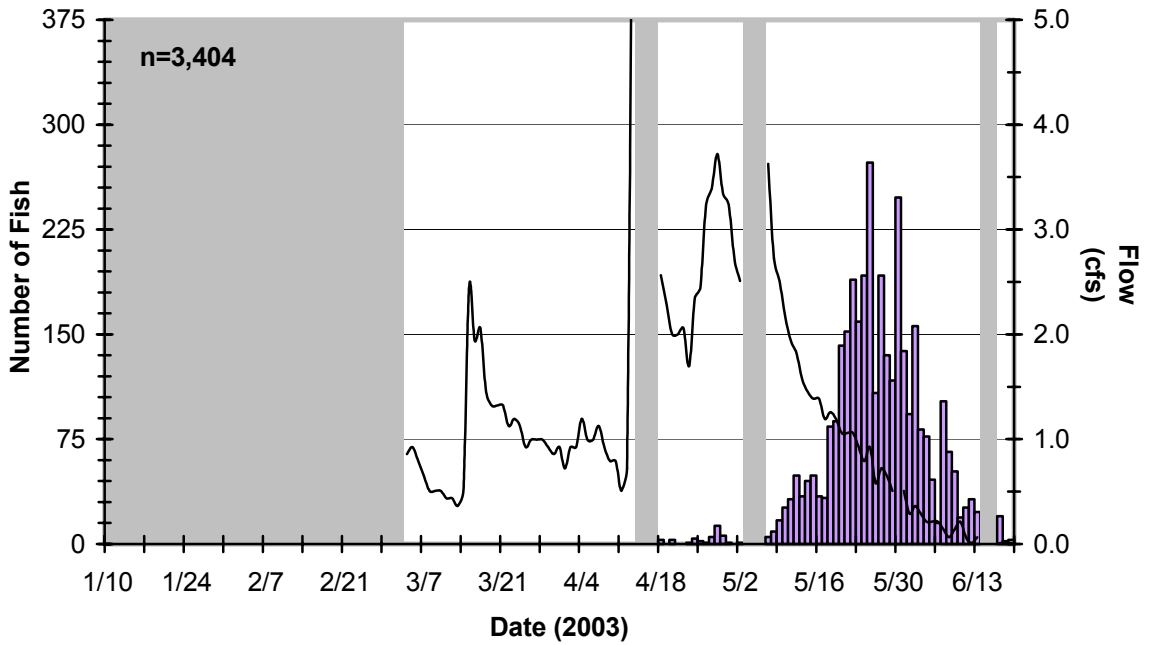


Figure 34. Indian Creek, downstream moving rainbow trout YOY (bar) and water temperature (line).

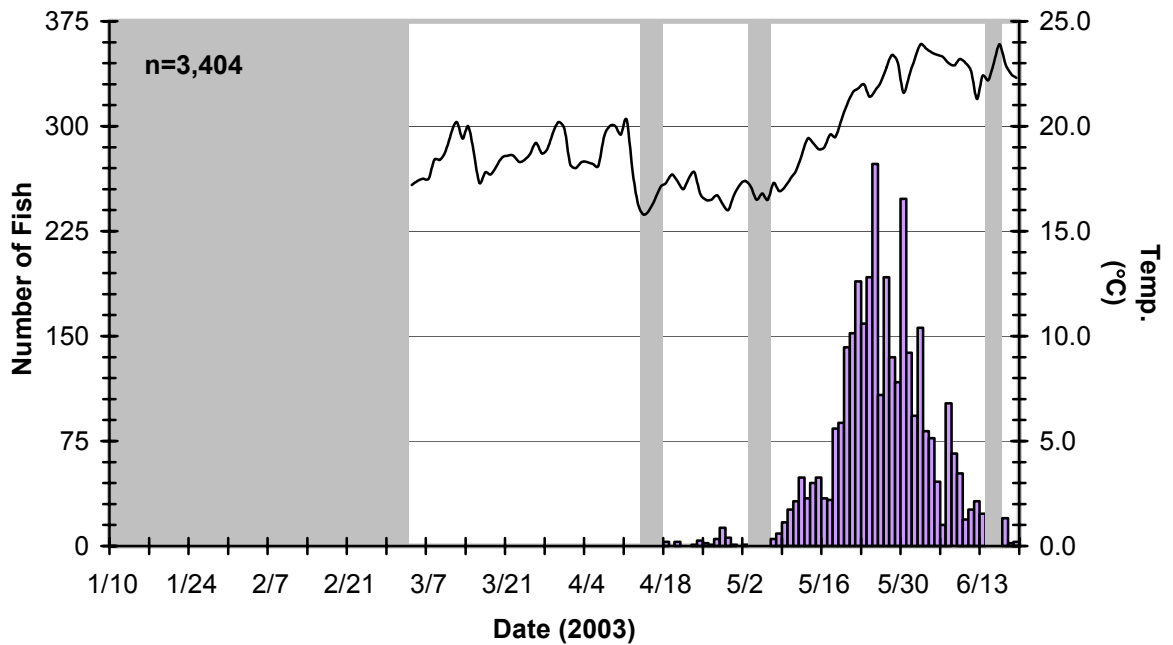


Figure 35. Indian Creek, downstream moving Sacramento sucker (bar).

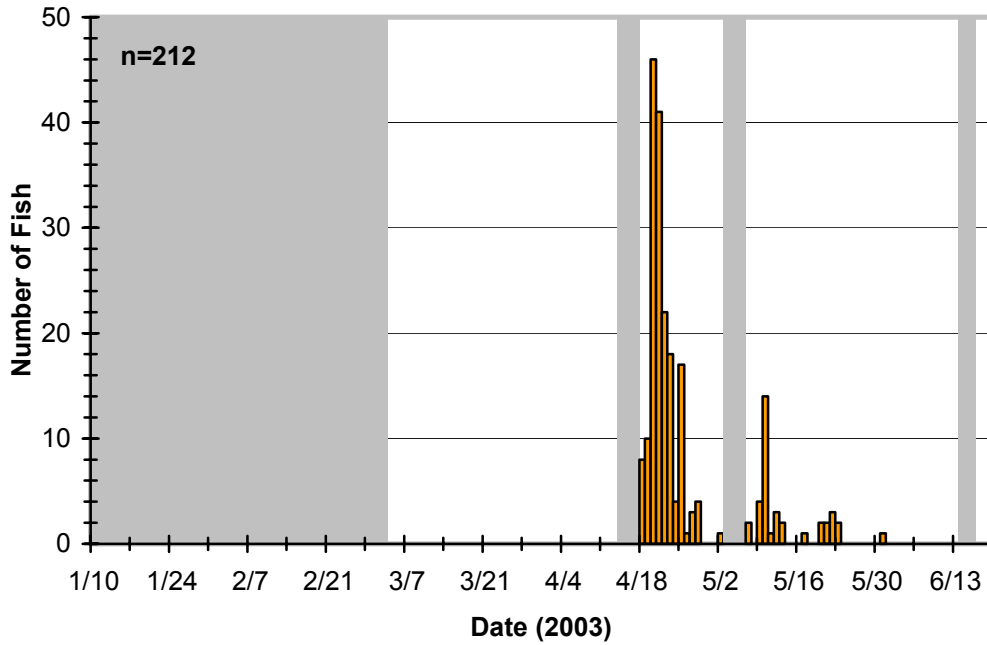


Figure 36. Indian Creek, downstream moving prickly sculpin (bar).

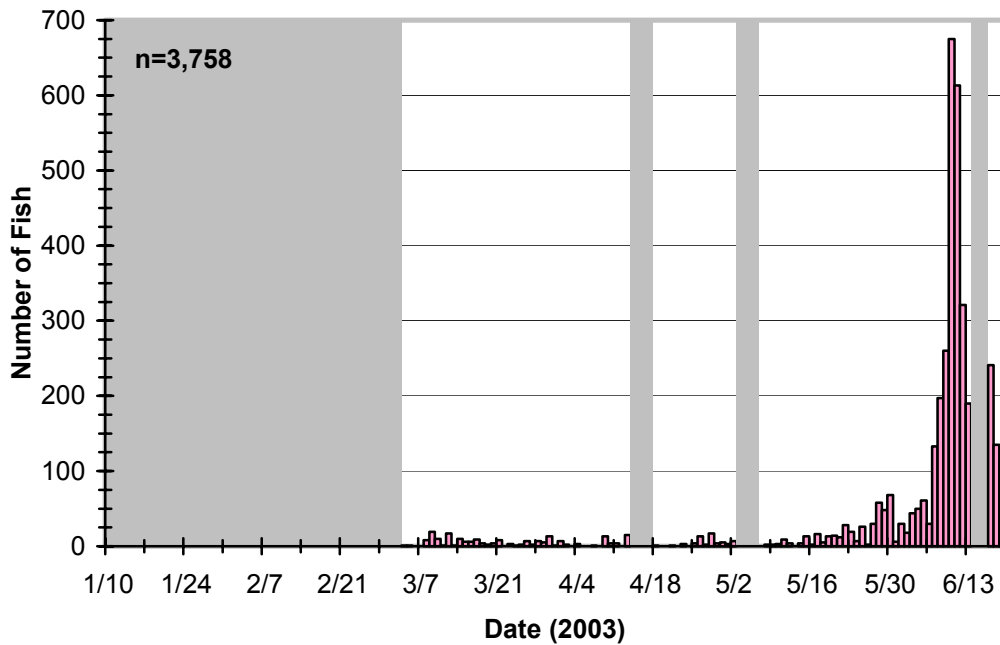


Figure 38. Arroyo Hondo, downstream moving adult rainbow trout (bar) and flow (line).

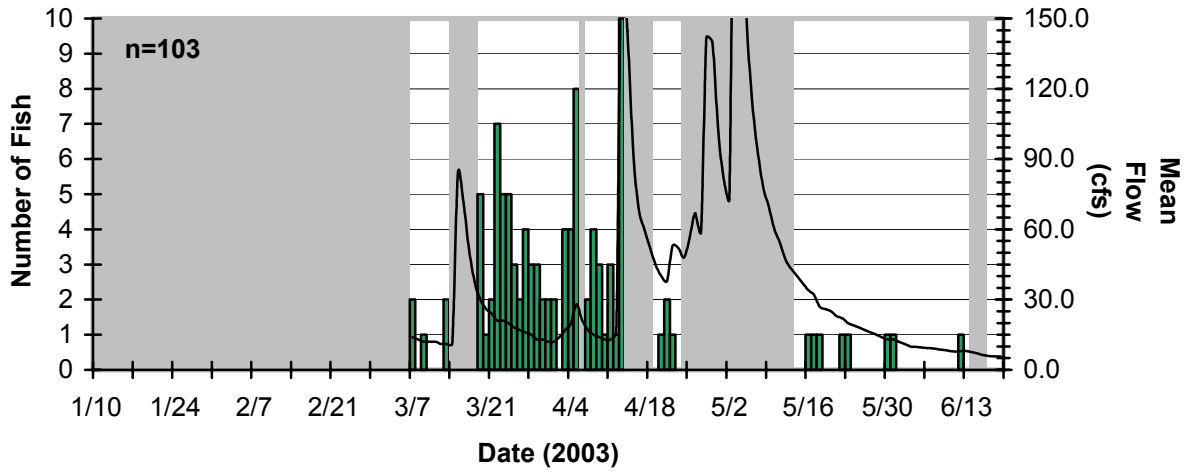


Figure 39. Arroyo Hondo, downstream moving adult rainbow trout (bar) and water temperature (line).

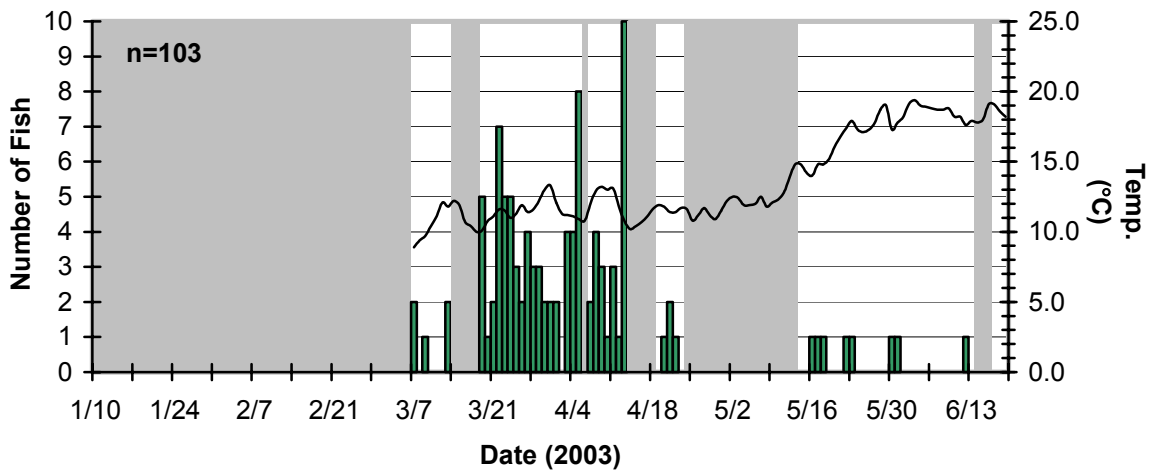


Figure 40. Arroyo Hondo, downstream moving adult rainbow trout (bar) and moon phase (symbol).

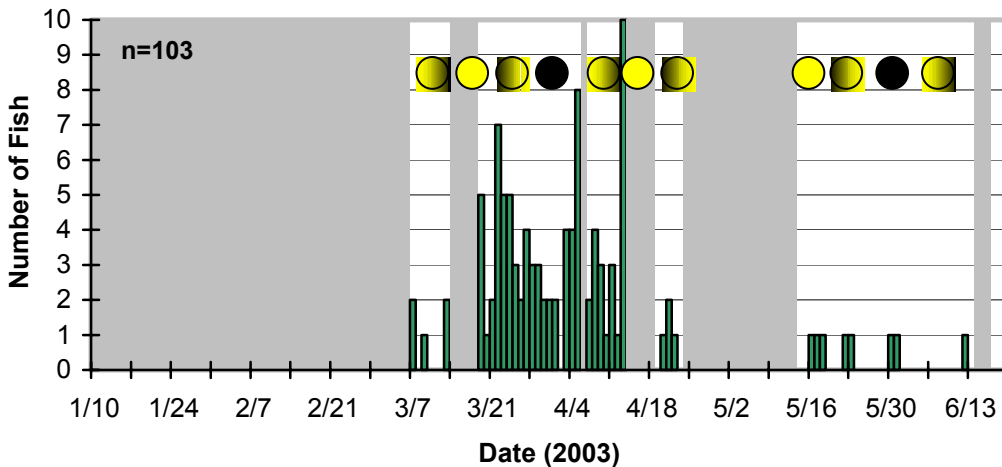


Figure 41. Arroyo Hondo, downstream moving rainbow trout parr/smolt (bar) and flow (line).

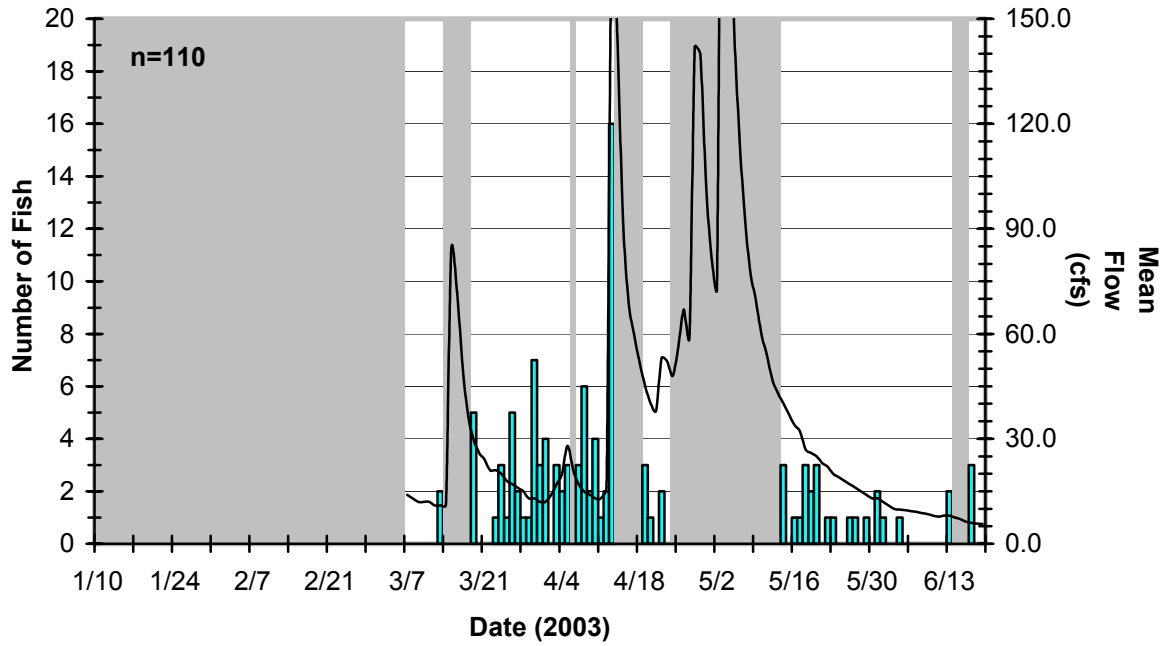


Figure 42. Arroyo Hondo, downstream moving rainbow trout parr/smolt (bar) and water temperature (line).

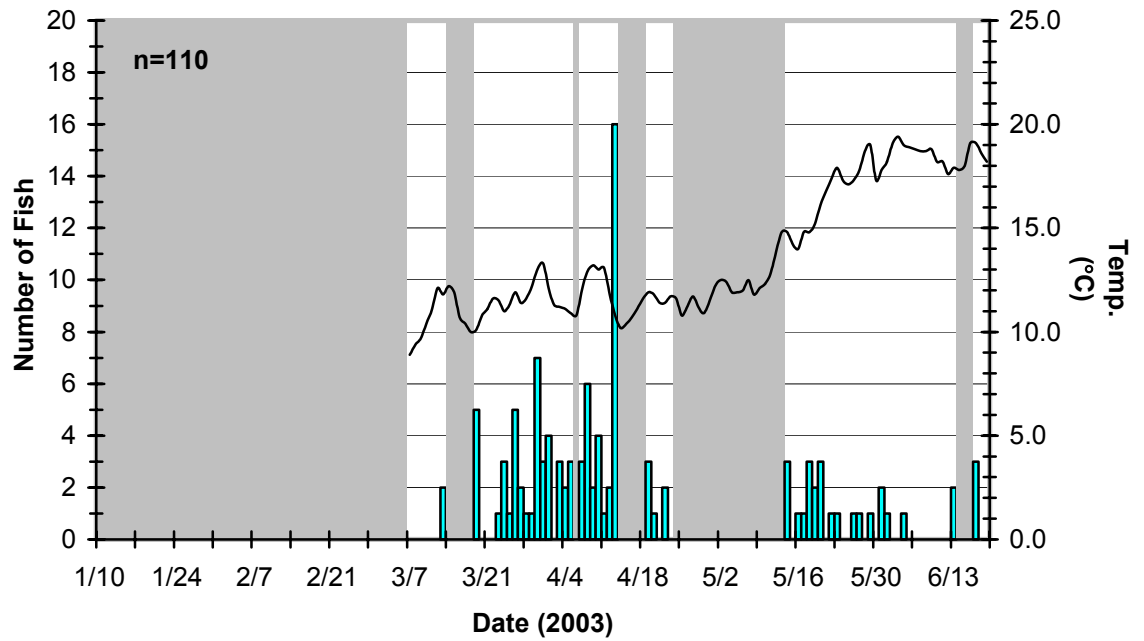


Figure 43. Arroyo Hondo, downstream moving rainbow trout YOY (bar) and flow (line).

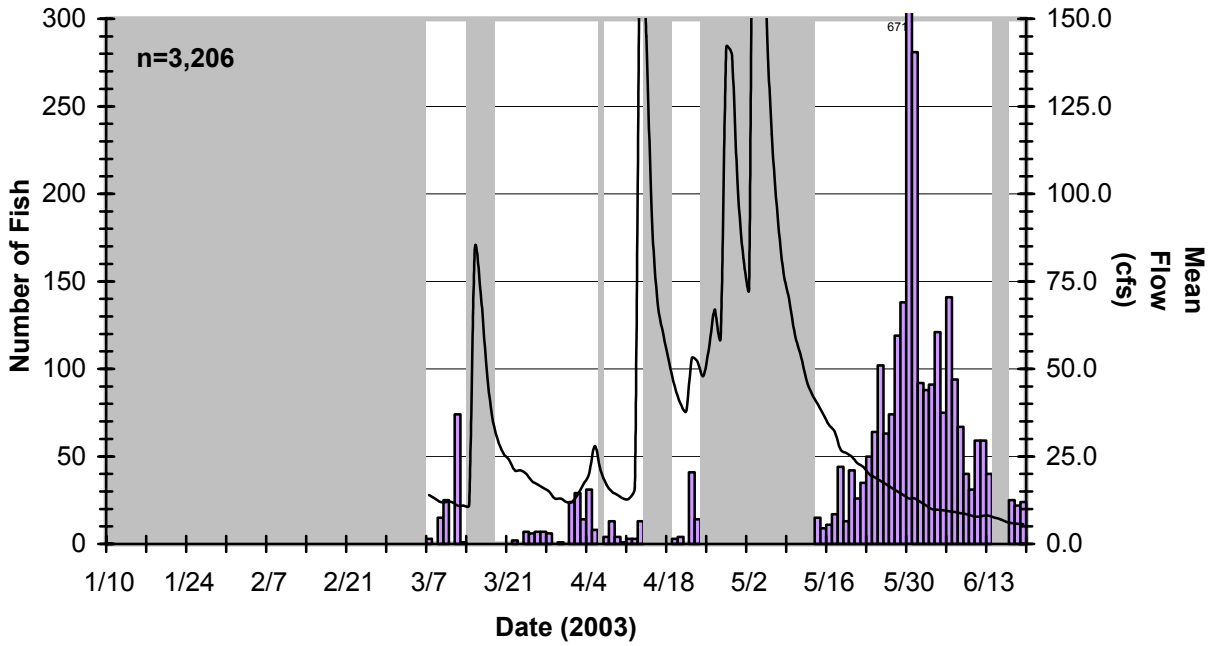


Figure 44. Arroyo Hondo, downstream moving rainbow trout YOY (bar) and water temperature (line).

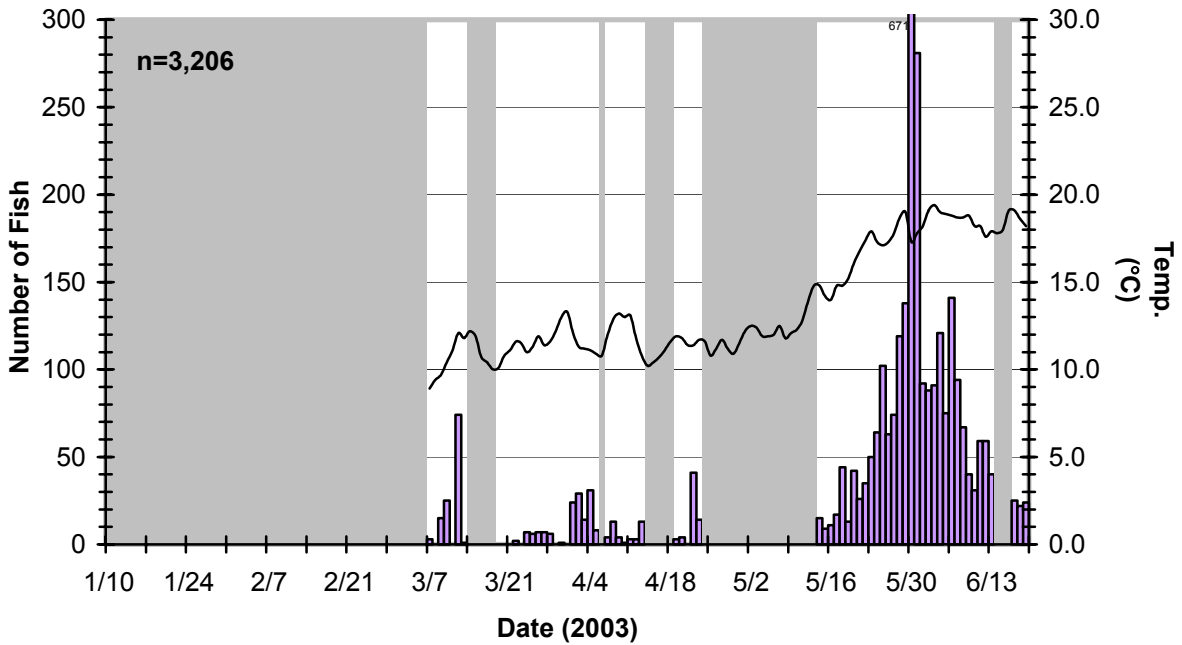


Figure 45. Arroyo Hondo, downstream moving Sacramento sucker (bar).

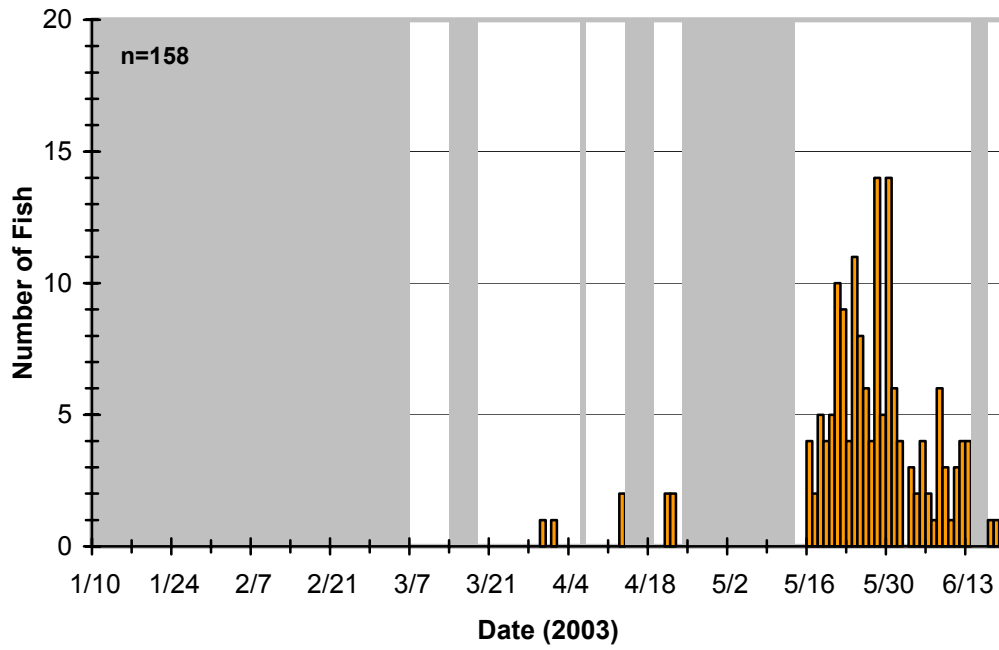


Figure 46. Arroyo Hondo, downstream moving California roach (bar).

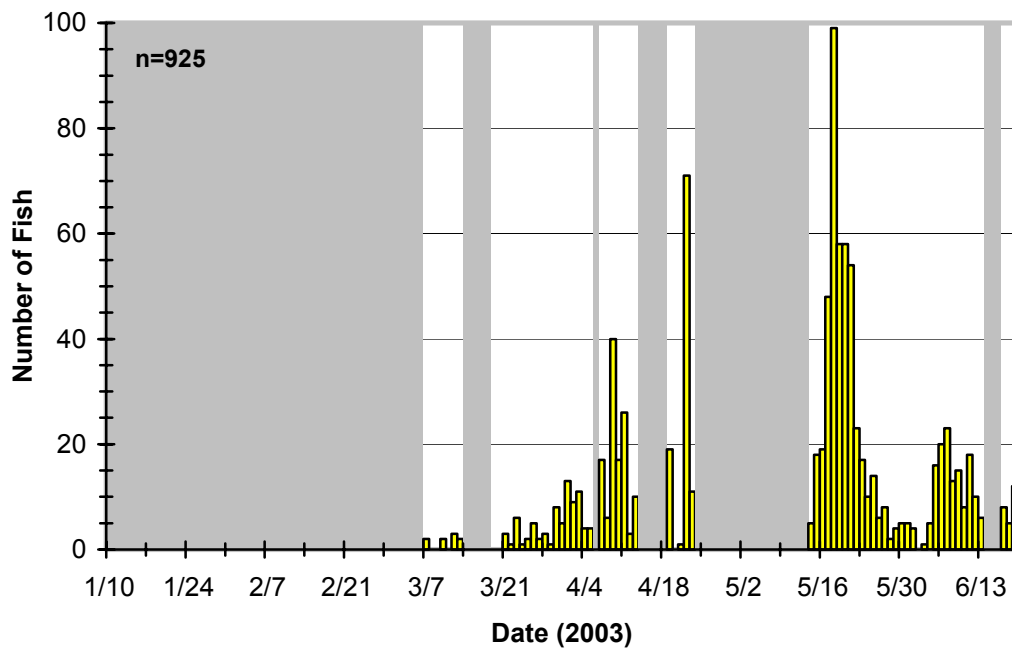


Figure 47. San Antonio Creek, adult rainbow trout tagging record for fish moving upstream (closed circles) and downstream (open circles). Trout that were tagged on their way upstream and recaptured moving back downstream (horizontal line) were tagged only once.

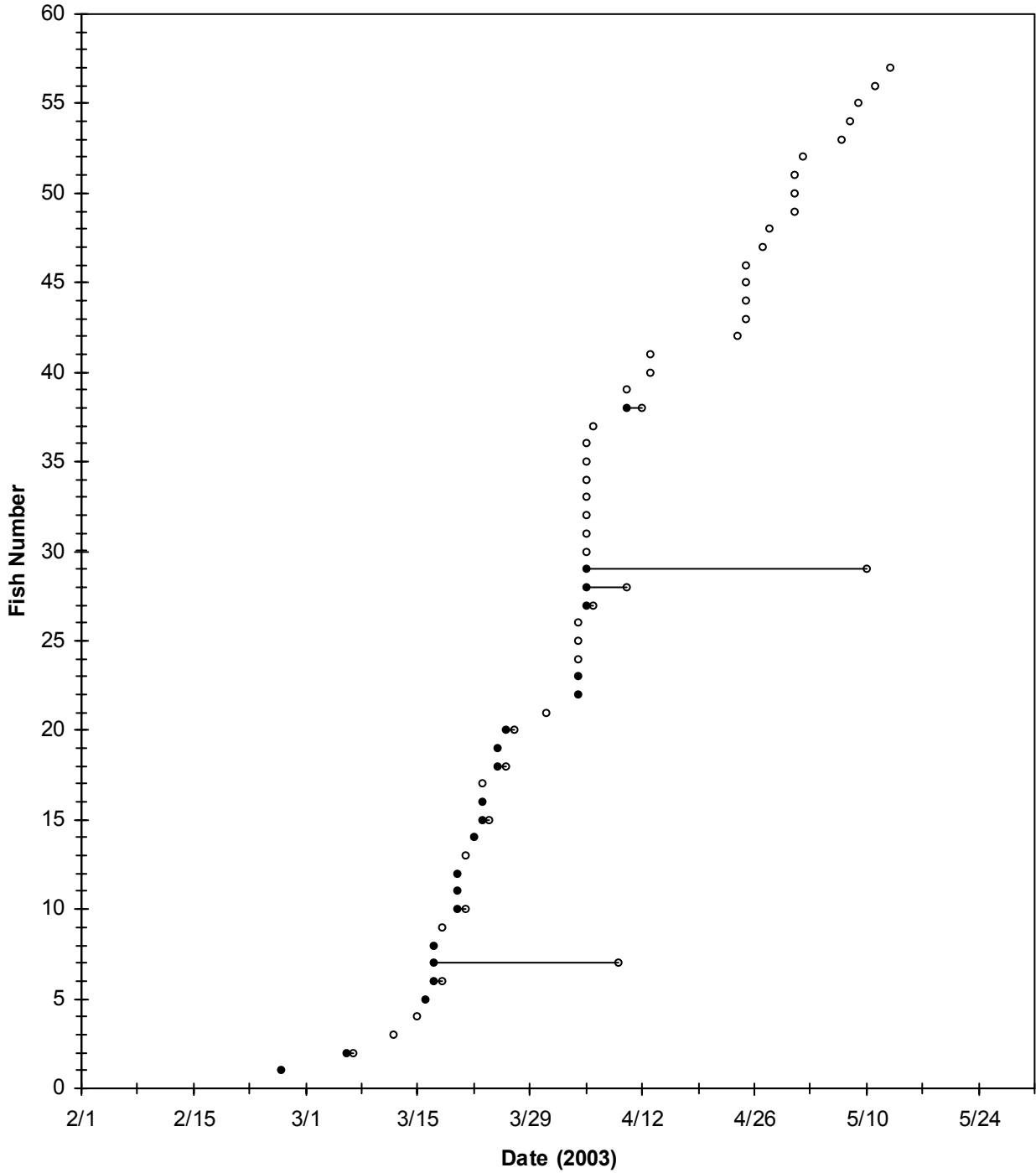


Figure 48. Indian Creek, adult rainbow trout tagging record for fish moving upstream (closed circles) and downstream (open circles). Trout that were tagged on their way upstream and recaptured moving back downstream (horizontal line) were tagged only once.

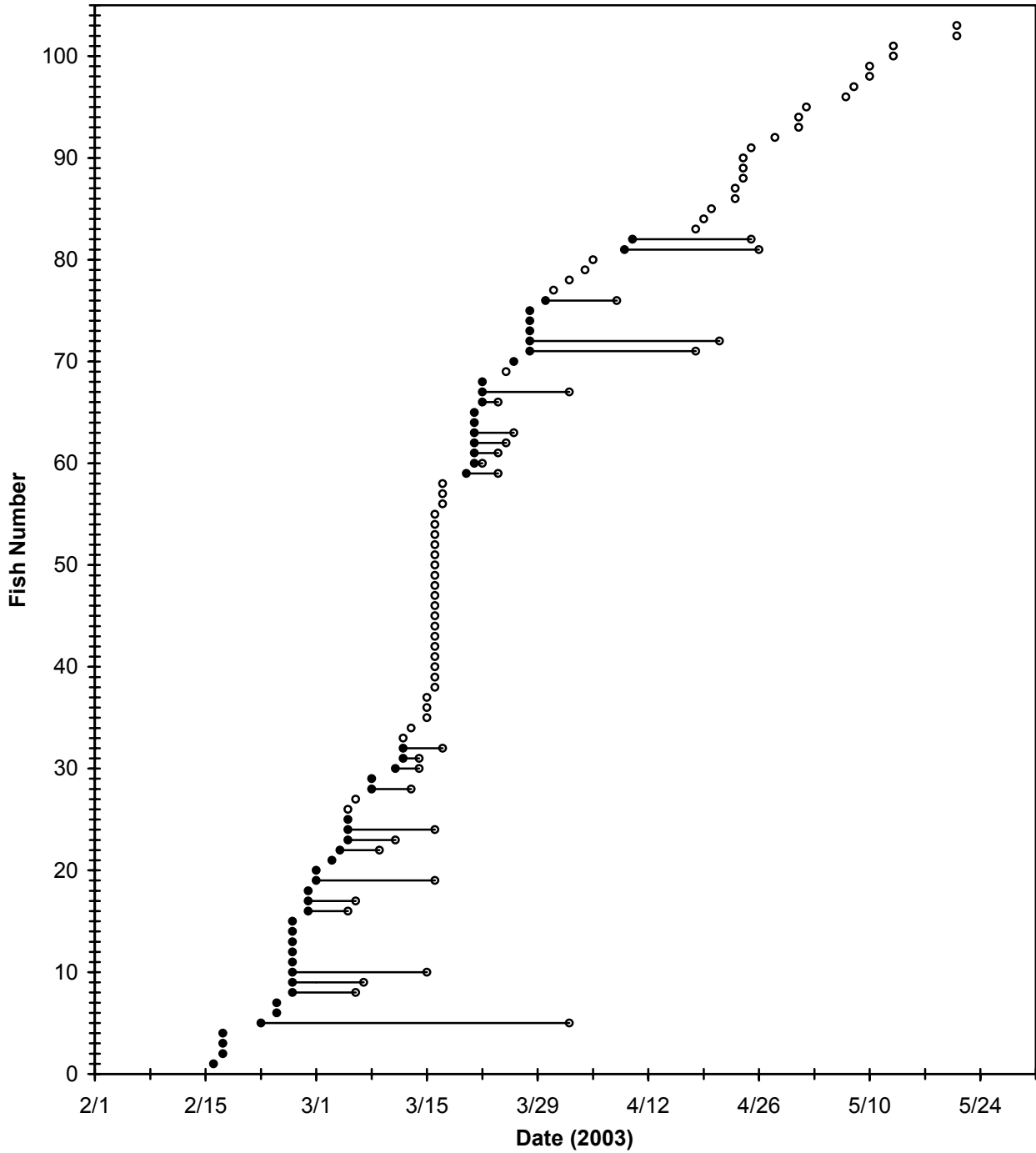
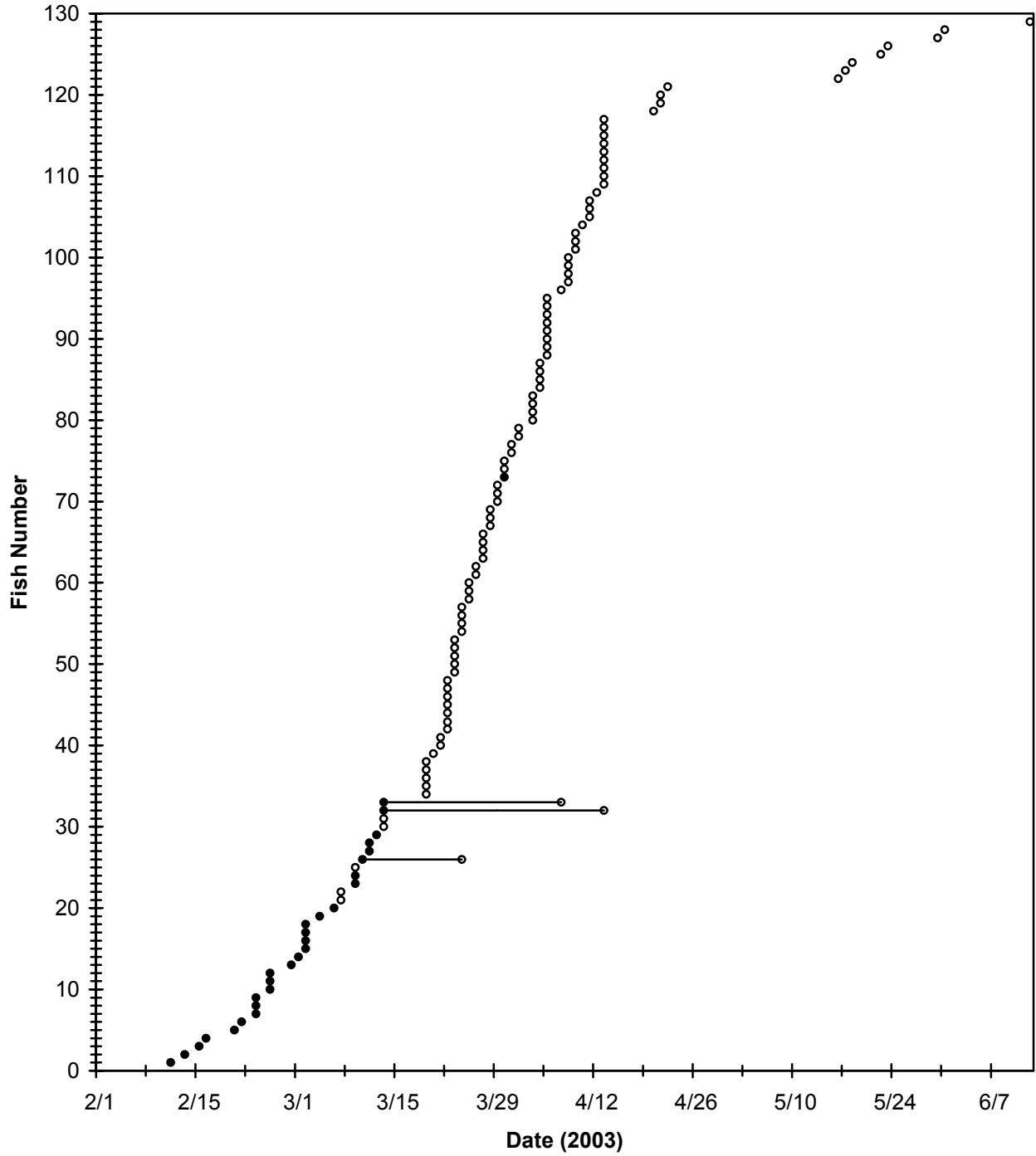


Figure 49. Arroyo Hondo, adult rainbow trout tagging record for fish moving upstream (closed circles) and downstream (open circles). Trout that were tagged on their way upstream and recaptured moving back downstream (horizontal line) were tagged only once.



Appendix A. Adult rainbow trout summary data.

| Date | Permitted Biologist | Creek | Trap | | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number of Fish | | | | All Trout | | |
|-----------|---|-------------|--|-----------|--------------------|------------------|------------|---------------|-----------------|-----------------|----------------------|--------|------|------------------|-----------|------|------|
| | | | For Upstream or Downstream Moving Fish | Not Known | | | | | | | All Trout | Female | Male | Fork Length (mm) | Min. | Max. | Avg. |
| | | | | | | | | | | | | | | | | | |
| 3/4/2003 | *** INITIAL INSTALLATION OF SAN ANTONIO CREEK TRAP FOR DOWNSTREAM MOVING FISH *** | | | | | | | | | | | | | | | | |
| 3/5/2003 | Norris, Dot | San Antonio | Downstream | | 18.2 | 1.05 | 1.0 | | 16.6 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/6/2003 | Foree, Sonya | San Antonio | Downstream | | 23.8 | 1.04 | 0.8 | | 16.6 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/7/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 23.5 | 1.04 | 0.8 | | 16.6 | waxing crescent | 1 | 1 | 0 | 0 | 500 | 500 | -- |
| 3/8/2003 | Stolz, Jennifer | San Antonio | Downstream | | 23.4 | 1.02 | 0.6 | | 17.1 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/9/2003 | Sak, Brian | San Antonio | Downstream | | 24.8 | 0.99 | 0.4 | | 17.2 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/10/2003 | Horvath, Mike | San Antonio | Downstream | | 21.9 | 0.99 | 0.4 | | 17.7 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/11/2003 | Stolz, Jennifer | San Antonio | Downstream | | 23.6 | 0.98 | 0.4 | | 18.4 | first quarter | 0 | 0 | 0 | 0 | | | |
| 3/12/2003 | Norris, Dot | San Antonio | Downstream | | 27.4 | 0.98 | 0.4 | | 18.8 | waxing gibbous | 1 | 1 | 0 | 0 | 482 | 482 | -- |
| 3/13/2003 | Bielski, Jason | San Antonio | Downstream | | 26.0 | 0.95 | 0.2 | | 18.2 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/14/2003 | Bielski, Jason | San Antonio | Downstream | | 18.9 | 0.96 | 0.3 | | 18.4 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/15/2003 | Bielski, Jason | San Antonio | Downstream | | 24.1 | 1.61 | > 5.0 | | 17.9 | waxing gibbous | 1 | 1 | 0 | 0 | 545 | 545 | -- |
| 3/16/2003 | *** PARTIAL BLOWOUT OF DOWNSTREAM TRAP ON 3/15/03 *** | | | | | | | | | | | | | | | | |
| 3/17/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | | |
| 3/18/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 17.6 | 1.08 | 1.4 | | 17.1 | full | 2 | 1 | 1 | 0 | 424 | 497 | 460 |
| 3/19/2003 | Stolz, Jennifer | San Antonio | Downstream | | 23.1 | 1.08 | 1.4 | | 17.4 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/20/2003 | Horvath, Mike | San Antonio | Downstream | | 23.3 | 1.06 | 1.1 | | 18.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/21/2003 | Sak, Brian | San Antonio | Downstream | | 23.3 | 1.05 | 1.0 | | 18.1 | waning gibbous | 2 | 2 | 0 | 0 | 443 | 526 | 484 |
| 3/22/2003 | Targgart, Laura | San Antonio | Downstream | | 23.2 | 1.03 | 0.7 | | 18.1 | waning gibbous | 1 | 0 | 0 | 1 | 365 | 365 | -- |
| 3/23/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 27.3 | 1.05 | 1.0 | | 17.9 | waning gibbous | 1 | 1 | 0 | 0 | 530 | 530 | -- |
| 3/24/2003 | Chenuue, Scott | San Antonio | Downstream | | 20.8 | 1.03 | 0.7 | | 17.9 | waning gibbous | 1 | 0 | 1 | 0 | 395 | 395 | -- |
| 3/25/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 23.3 | 1.02 | 0.6 | | 18.2 | last quarter | 0 | 0 | 0 | 0 | | | |
| 3/26/2003 | Bielski, Jason | San Antonio | Downstream | | 24.1 | 1.02 | 0.6 | | 18.6 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/27/2003 | Stolz, Jennifer | San Antonio | Downstream | | 22.5 | 1.00 | 0.5 | | 18.3 | waning crescent | 1 | 1 | 0 | 0 | 390 | 390 | -- |
| 3/28/2003 | Targgart, Laura | San Antonio | Downstream | | 23.5 | 1.00 | 0.5 | | 18.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/29/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 23.8 | 0.98 | 0.4 | | 19.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/30/2003 | Chenuue, Scott | San Antonio | Downstream | | 22.8 | 1.00 | 0.5 | | 19.3 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/31/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 23.2 | 0.98 | 0.4 | | 19.0 | waning crescent | 1 | 1 | 0 | 0 | 495 | 495 | -- |
| 4/1/2003 | Norris, Dot | San Antonio | Downstream | | 28.0 | 0.98 | 0.4 | | 18.0 | new | 0 | 0 | 0 | 0 | | | |
| 4/2/2003 | Horvath, Mike | San Antonio | Downstream | | 18.7 | 0.99 | 0.4 | | 17.7 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/3/2003 | Stolz, Jennifer | San Antonio | Downstream | | 23.4 | 1.00 | 0.5 | | 18.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/4/2003 | Bielski, Jason | San Antonio | Downstream | | 24.3 | 1.07 | 1.2 | | 17.9 | waxing crescent | 3 | 3 | 0 | 0 | 410 | 510 | 473 |
| 4/5/2003 | Stolz, Jennifer | San Antonio | Downstream | | 23.5 | 1.08 | 1.4 | | 17.6 | waxing crescent | 7 | 6 | 1 | 0 | 355 | 525 | 448 |
| 4/6/2003 | Sak, Brian | San Antonio | Downstream | | 22.1 | 1.02 | 0.6 | | 17.8 | waxing crescent | 2 | 2 | 0 | 0 | 500 | 501 | 500 |
| 4/7/2003 | Bielski, Jason | San Antonio | Downstream | | 22.5 | 0.99 | 0.4 | | 18.8 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/8/2003 | Foree, Sonya | San Antonio | Downstream | | 23.5 | 1.02 | 0.6 | | 19.3 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/9/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 23.9 | 0.97 | 0.3 | | 19.4 | waxing crescent | 1 | 0 | 1 | 0 | 498 | 498 | -- |
| 4/10/2003 | Horvath, Mike | San Antonio | Downstream | | 22.6 | 0.97 | 0.3 | | 18.9 | first quarter | 2 | 1 | 1 | 0 | 482 | 560 | 521 |
| 4/11/2003 | Horvath, Mike | San Antonio | Downstream | | 23.8 | 0.97 | 0.3 | | 19.4 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 4/12/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 24.0 | 0.96 | 0.3 | | 17.8 | waxing gibbous | 1 | 1 | 0 | 0 | 415 | 415 | -- |
| 4/13/2003 | Bielski, Jason | San Antonio | Downstream | | 27.7 | 2.40 | > 5.0 | | 15.5 | waxing gibbous | 2 | 2 | 0 | 0 | 465 | 528 | 496 |
| 4/14/2003 | *** BLOWOUT OF DOWNSTREAM TRAP ON 4/13/03 *** | | | | | | | | | | | | | | | | |
| 4/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/16/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/17/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/18/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/19/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/20/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/21/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | | |
| 4/22/2003 | Kellogg, Mike | San Antonio | Downstream | | | 1.18 | > 5.0 | | 18.1 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/23/2003 | Targgart, Laura | San Antonio | Downstream | | 23.0 | 1.14 | 3.1 | | 18.2 | last quarter | 0 | 0 | 0 | 0 | | | |
| 4/24/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 20.3 | 1.22 | > 5.0 | | 17.3 | waning crescent | 1 | 1 | 0 | 0 | 500 | 500 | -- |
| 4/25/2003 | Horvath, Mike | San Antonio | Downstream | | 22.5 | 1.30 | > 5.0 | | 16.3 | waning crescent | 4 | 3 | 1 | 0 | 475 | 525 | 500 |
| 4/26/2003 | Horvath, Mike | San Antonio | Downstream | | 23.4 | 1.61 | > 5.0 | | 16.0 | waning crescent | 1 | 1 | 0 | 0 | 409 | 409 | -- |
| 4/27/2003 | Kellogg, Mike | San Antonio | Downstream | | 22.6 | 1.36 | > 5.0 | | 16.9 | waning crescent | 1 | 0 | 1 | 0 | 423 | 423 | -- |
| 4/28/2003 | Sak, Brian | San Antonio | Downstream | | 22.3 | 2.04 | > 5.0 | | 15.8 | waning crescent | 1 | 1 | 0 | 0 | 502 | 502 | -- |
| 4/29/2003 | *** BLOWOUT OF DOWNSTREAM TRAP ON 4/28/03 *** | | | | | | | | | | | | | | | | |
| 4/30/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | | |
| 5/1/2003 | Stolz, Jennifer | San Antonio | Downstream | | 21.9 | 1.20 | > 5.0 | | 17.5 | new | 3 | 2 | 1 | 0 | 463 | 480 | 469 |
| 5/2/2003 | Targgart, Laura | San Antonio | Downstream | | 24.7 | 1.18 | > 5.0 | | 17.5 | waxing crescent | 1 | 0 | 1 | 0 | 394 | 394 | -- |
| 5/3/2003 | *** DOWNSTREAM TRAP PULLED ON 5/2/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | |
| 5/4/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/5/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/6/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | |
| 5/7/2003 | Bielski, Jason | San Antonio | Downstream | | 21.8 | 1.24 | > 5.0 | | 17.9 | waxing crescent | 1 | 0 | 1 | 0 | 485 | 485 | -- |
| 5/8/2003 | Stolz, Jennifer | San Antonio | Downstream | | 23.6 | 1.20 | > 5.0 | | 17.6 | waxing crescent | 1 | 0 | 1 | 0 | 495 | 495 | -- |
| 5/9/2003 | Kellogg, Mike | San Antonio | Downstream | | 23.5 | 1.20 | > 5.0 | | 18.0 | first quarter | 1 | 1 | 0 | 0 | 443 | 443 | -- |
| 5/10/2003 | Horvath, Mike | San Antonio | Downstream | | 23.2 | | < 0.1 | | 18.6 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/11/2003 | Bielski, Jason | San Antonio | Downstream | | 22.5 | 1.08 | 1.4 | | 19.1 | waxing gibbous | 1 | 0 | 1 | 0 | 525 | 525 | -- |
| 5/12/2003 | Targgart, Laura | San Antonio | Downstream | | 25.7 | 1.06 | 1.1 | | 19.8 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/13/2003 | Foree, Sonya | San Antonio | Downstream | | 20.8 | 1.08 | 1.4 | | 20.5 | waxing gibbous | 1 | 0 | 1 | 0 | 482 | 482 | -- |
| 5/14/2003 | Stolz, Jennifer | San Antonio | Downstream | | 25.9 | 1.04 | 0.8 | | 20.2 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/15/2003 | Sak, Brian | San Antonio | Downstream | | 20.7 | 1.04 | 0.8 | | 19.9 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/16/2003 | Bielski, Jason | San Antonio | Downstream | | 22.2 | 1.02 | 0.6 | | 20.1 | full | 0 | 0 | 0 | 0 | | | |
| 5/17/2003 | Foree, Sonya | San Antonio | Downstream | | 22.2 | 1.02 | 0.6 | | 20.6 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/18/2003 | Sak, Brian | San Antonio | Downstream | | 20.5 | 1.01 | 0.5 | | 20.7 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/19/2003 | Kellogg, Mike | San Antonio | Downstream | | 23.8 | 1.00 | 0.5 | | 21.3 | waning gibbous | 0 | 0 | 0 | 0 | | | |

San Antonio Creek, Indian Creek and Arroyo Hondo

| Date | Permitted Biologist | Creek | Trap | | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number of Fish | | | | All Trout | | |
|-----------|---|-------------|--|-----------|--------------------|------------------|------------|---------------|-----------------|-----------------|----------------------|------|-----------|------------------|-----------|------|----|
| | | | For Upstream or Downstream Moving Fish | Not Known | | | | | | | Female | Male | All Trout | Fork Length (mm) | | | |
| | | | | | | | | | | | | | | Min. | Max. | Avg. | |
| 5/20/2003 | Norris, Dot | San Antonio | Downstream | | 21.9 | 1.01 | 0.5 | | 21.9 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/21/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 23.6 | 0.98 | 0.4 | | 22.4 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/22/2003 | *** DOWNSTREAM TRAP NOT FISHING - CLAMP LEFT ON, ON 5/21/03 *** | | | | | | | | | | | | | | | | |
| 5/23/2003 | Kellogg, Mike | San Antonio | Downstream | | 23.5 | 0.98 | 0.4 | | 22.6 | last quarter | 0 | 0 | 0 | 0 | | | |
| 5/24/2003 | Horvath, Mike | San Antonio | Downstream | | 22.5 | 0.97 | 0.3 | | 21.8 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/25/2003 | Norris, Dot | San Antonio | Downstream | | 23.3 | 0.98 | 0.4 | | 22.2 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/26/2003 | Horvath, Mike | San Antonio | Downstream | | 24.3 | 0.97 | 0.3 | | 22.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/27/2003 | *** FLOW NOT ENTERING DOWNSTREAM TRAP FUNNEL *** | | | | | | | | | | | | | | | | |
| 5/28/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/29/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/30/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | | |
| 5/31/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 28.0 | 0.95 | 0.2 | | 22.6 | new | 0 | 0 | 0 | 0 | | | |
| 6/1/2003 | Norris, Dot | San Antonio | Downstream | | 17.7 | 0.95 | 0.2 | | 23.2 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/2/2003 | Targgart, Laura | San Antonio | Downstream | | 25.6 | 0.95 | 0.2 | | 23.9 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/3/2003 | Norris, Dot | San Antonio | Downstream | | 20.2 | 0.94 | 0.2 | | 23.7 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/4/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 21.8 | 0.94 | 0.2 | | 23.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/5/2003 | Bielski, Jason | San Antonio | Downstream | | 22.8 | 0.94 | 0.2 | | 23.3 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/6/2003 | Kellogg, Mike | San Antonio | Downstream | | 21.9 | 0.94 | 0.2 | | 23.2 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/7/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 24.0 | 0.94 | 0.2 | | 23.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/8/2003 | Horvath, Mike | San Antonio | Downstream | | 22.0 | 0.93 | 0.2 | | 22.9 | first quarter | 0 | 0 | 0 | 0 | | | |
| 6/9/2003 | *** PULLED SAN ANTONIO CREEK DOWNSTREAM TRAP FOR THE YEAR *** | | | | | | | | | | | | | | | | |
| 1/9/2003 | *** INITIAL INSTALLATION OF SAN ANTONIO CREEK TRAP FOR UPSTREAM MOVING FISH *** | | | | | | | | | | | | | | | | |
| 1/10/2003 | Sak, Brian | San Antonio | Upstream | | 19.9 | 1.16 | 4.0 | | | first quarter | 0 | 0 | 0 | 0 | | | |
| 1/11/2003 | Sak, Brian | San Antonio | Upstream | | 23.3 | 1.14 | 3.1 | | | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/12/2003 | Sak, Brian | San Antonio | Upstream | | 23.0 | 1.08 | 1.4 | | | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/13/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 23.8 | 1.06 | 1.1 | | | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/14/2003 | Sak, Brian | San Antonio | Upstream | | 23.3 | 1.05 | 1.0 | | | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/15/2003 | Sak, Brian | San Antonio | Upstream | | 24.0 | 1.03 | 0.7 | | | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/16/2003 | Sak, Brian | San Antonio | Upstream | | 23.5 | 1.02 | 0.6 | | | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/17/2003 | Sak, Brian | San Antonio | Upstream | | 23.8 | 1.01 | 0.5 | | | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/18/2003 | Sak, Brian | San Antonio | Upstream | | 23.5 | 1.00 | 0.5 | | | full | 0 | 0 | 0 | 0 | | | |
| 1/19/2003 | Sak, Brian | San Antonio | Upstream | | 23.5 | 0.99 | 0.4 | | | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/20/2003 | Norris, Dot | San Antonio | Upstream | | 23.4 | 0.98 | 0.4 | | | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/21/2003 | Sak, Brian | San Antonio | Upstream | | 24.3 | 0.99 | 0.4 | | | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/22/2003 | Sak, Brian | San Antonio | Upstream | | 24.4 | 0.97 | 0.3 | | | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/23/2003 | Chenue, Scott | San Antonio | Upstream | | 23.6 | 0.96 | 0.3 | | | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/24/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 24.3 | 0.96 | 0.3 | | | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/25/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 25.8 | 0.96 | 0.3 | | | last quarter | 0 | 0 | 0 | 0 | | | |
| 1/26/2003 | Norris, Dot | San Antonio | Upstream | | 21.3 | 0.95 | 0.2 | | | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/27/2003 | Chenue, Scott | San Antonio | Upstream | | 24.5 | 0.94 | 0.2 | | | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/28/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 24.0 | 0.94 | 0.2 | | | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/29/2003 | Bielski, Jason | San Antonio | Upstream | | 23.8 | 0.93 | 0.2 | | | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/30/2003 | Sak, Brian | San Antonio | Upstream | | 23.8 | 0.93 | 0.2 | | | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/31/2003 | Norris, Dot | San Antonio | Upstream | | 24.0 | 0.93 | 0.2 | | | waning crescent | 0 | 0 | 0 | 0 | | | |
| 2/1/2003 | Sak, Brian | San Antonio | Upstream | | 23.8 | 0.93 | 0.2 | | | new | 0 | 0 | 0 | 0 | | | |
| 2/2/2003 | Sak, Brian | San Antonio | Upstream | | 24.1 | 0.92 | 0.1 | | | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/3/2003 | Norris, Dot | San Antonio | Upstream | | 23.3 | 0.91 | 0.1 | | | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/4/2003 | Bielski, Jason | San Antonio | Upstream | | 24.5 | 0.92 | 0.1 | | | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/5/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 23.5 | 0.91 | 0.1 | | | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/6/2003 | Stolz, Jennifer | San Antonio | Upstream | | 23.8 | 0.91 | 0.1 | | | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/7/2003 | Sak, Brian | San Antonio | Upstream | | 24.3 | 0.91 | 0.1 | | 15.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/8/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 24.1 | 0.90 | 0.1 | | 14.9 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/9/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 23.8 | 0.90 | 0.1 | | 14.9 | first quarter | 0 | 0 | 0 | 0 | | | |
| 2/10/2003 | Chenue, Scott | San Antonio | Upstream | | 22.7 | 0.90 | 0.1 | | 15.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/11/2003 | Stolz, Jennifer | San Antonio | Upstream | | 23.9 | 0.91 | 0.1 | | 15.1 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/12/2003 | Kellogg, Mike | San Antonio | Upstream | | 27.6 | 0.92 | 0.1 | | 15.3 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/13/2003 | Chenue, Scott | San Antonio | Upstream | | 26.5 | 0.91 | 0.1 | | 16.1 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/14/2003 | Bielski, Jason | San Antonio | Upstream | | 16.8 | 0.91 | 0.1 | | 16.1 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/15/2003 | Stolz, Jennifer | San Antonio | Upstream | | 24.7 | 0.92 | 0.1 | | 16.2 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/16/2003 | Foree, Sonya | San Antonio | Upstream | | 23.4 | 1.06 | 1.1 | | 16.1 | full | 0 | 0 | 0 | 0 | | | |
| 2/17/2003 | Bielski, Jason | San Antonio | Upstream | | 24.6 | 1.01 | 0.5 | | 15.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/18/2003 | Norris, Dot | San Antonio | Upstream | | 23.8 | 0.98 | 0.4 | | 15.8 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/19/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 26.9 | 0.97 | 0.3 | | 16.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/20/2003 | Stolz, Jennifer | San Antonio | Upstream | | 21.3 | 0.96 | 0.3 | | 16.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/21/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 24.1 | 0.96 | 0.3 | | 16.2 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/22/2003 | Bielski, Jason | San Antonio | Upstream | | 23.1 | 0.96 | 0.3 | | 16.4 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/23/2003 | Horvath, Mike | San Antonio | Upstream | | 24.0 | 0.97 | 0.3 | | 16.1 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/24/2003 | Chenue, Scott | San Antonio | Upstream | | 26.6 | 0.96 | 0.3 | | 16.3 | last quarter | 0 | 0 | 0 | 0 | | | |
| 2/25/2003 | Kellogg, Mike | San Antonio | Upstream | | 21.3 | 1.05 | 1.0 | | 16.8 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 2/26/2003 | Sak, Brian | San Antonio | Upstream | | 24.5 | 1.10 | 1.9 | | 16.0 | waning crescent | 1 | 1 | 0 | 0 | 510 | 510 | -- |
| 2/27/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 23.2 | 1.26 | > 5.0 | | 16.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 2/28/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 23.3 | 1.16 | 4.0 | | 15.9 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/1/2003 | Norris, Dot | San Antonio | Upstream | | 23.2 | 1.12 | 2.4 | | 16.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/2/2003 | Bielski, Jason | San Antonio | Upstream | | 24.0 | 1.08 | 1.4 | | 16.4 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/3/2003 | Targgart, Laura | San Antonio | Upstream | | 26.7 | 1.05 | 1.0 | | 16.1 | new | 0 | 0 | 0 | 0 | | | |
| 3/4/2003 | Foree, Sonya | San Antonio | Upstream | | 26.8 | 1.06 | 1.1 | | 16.1 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/5/2003 | Norris, Dot | San Antonio | Upstream | | 18.5 | 1.05 | 1.0 | | 16.6 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/6/2003 | Foree, Sonya | San Antonio | Upstream | | 23.3 | 1.04 | 0.8 | | 16.6 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/7/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | | 24.0 | 1.04 | 0.8 | | 16.6 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/8/2003 | Stolz, Jennifer | San Antonio | Upstream | | 23.1 | 1.02 | 0.6 | | 17.1 | waxing crescent | 0 | 0 | 0 | 0 | | | |

Fish Trapping Data Summary 2003

| Date | Permitted Biologist | Creek | Trap For Upstream or Downstream Moving Fish | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number of Fish | | | | All Trout | | |
|-----------|--|-------------|--|--------------------------|------------------------|---------------|---------------------|-----------------------|-----------------|----------------------|--------|------|--------------|------------------|------|------|
| | | | | | | | | | | All Trout | Female | Male | Not Known | Fork Length (mm) | | |
| | | | | | | | | | | | | | | Min. | Max. | Avg. |
| 3/9/2003 | Sak, Brian | San Antonio | Upstream | 25.2 | 0.99 | 0.4 | | 17.2 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/10/2003 | Horvath, Mike | San Antonio | Upstream | 22.3 | 0.99 | 0.4 | | 17.7 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/11/2003 | Stolz, Jennifer | San Antonio | Upstream | 23.7 | 0.98 | 0.4 | | 18.4 | first quarter | 0 | 0 | 0 | 0 | | | |
| 3/12/2003 | Norris, Dot | San Antonio | Upstream | 27.7 | 0.98 | 0.4 | | 18.8 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/13/2003 | Bielski, Jason | San Antonio | Upstream | 27.3 | 0.95 | 0.2 | | 18.2 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/14/2003 | Bielski, Jason | San Antonio | Upstream | 19.3 | 0.96 | 0.3 | | 18.4 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/15/2003 | Bielski, Jason | San Antonio | Upstream | 25.7 | 1.61 | > 5.0 | | 17.9 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/16/2003 | Horvath, Mike | San Antonio | Upstream | 17.2 | 1.21 | > 5.0 | | 16.7 | waxing gibbous | 1 | 1 | 0 | 0 | 584 | 584 | -- |
| 3/17/2003 | Sak, Brian | San Antonio | Upstream | 23.1 | 1.14 | 3.1 | | 17.0 | waxing gibbous | 3 | 1 | 2 | 0 | 494 | 503 | 498 |
| 3/18/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | 22.7 | 1.08 | 1.4 | | 17.1 | full | 0 | 0 | 0 | 0 | | | |
| 3/19/2003 | Stolz, Jennifer | San Antonio | Upstream | 22.5 | 1.08 | 1.4 | | 17.4 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/20/2003 | Horvath, Mike | San Antonio | Upstream | 23.3 | 1.06 | 1.1 | | 18.0 | waning gibbous | 3 | 2 | 1 | 0 | 445 | 526 | 495 |
| 3/21/2003 | Sak, Brian | San Antonio | Upstream | 23.4 | 1.05 | 1.0 | | 18.1 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/22/2003 | Targgart, Laura | San Antonio | Upstream | 23.3 | 1.03 | 0.7 | | 18.1 | waning gibbous | 1 | 1 | 0 | 0 | 541 | 541 | -- |
| 3/23/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | 27.5 | 1.05 | 1.0 | | 17.9 | waning gibbous | 2 | 1 | 1 | 0 | 395 | 452 | 424 |
| 3/24/2003 | Chenue, Scott | San Antonio | Upstream | 21.1 | 1.03 | 0.7 | | 17.9 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/25/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | 23.7 | 1.02 | 0.6 | | 18.2 | last quarter | 2 | 2 | 0 | 0 | 378 | 490 | 434 |
| 3/26/2003 | Bielski, Jason | San Antonio | Upstream | 24.5 | 1.02 | 0.6 | | 18.6 | waning crescent | 1 | 1 | 0 | 0 | 390 | 390 | -- |
| 3/27/2003 | Stolz, Jennifer | San Antonio | Upstream | 22.0 | 1.00 | 0.5 | | 18.3 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/28/2003 | Targgart, Laura | San Antonio | Upstream | 23.6 | 1.00 | 0.5 | | 18.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/29/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | 25.3 | 0.98 | 0.4 | | 19.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/30/2003 | Chenue, Scott | San Antonio | Upstream | 22.6 | 1.00 | 0.5 | | 19.3 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/31/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | 23.9 | 0.98 | 0.4 | | 19.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/1/2003 | Norris, Dot | San Antonio | Upstream | 28.0 | 0.98 | 0.4 | | 18.0 | new | 0 | 0 | 0 | 0 | | | |
| 4/2/2003 | Horvath, Mike | San Antonio | Upstream | 18.5 | 0.99 | 0.4 | | 17.7 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/3/2003 | Stolz, Jennifer | San Antonio | Upstream | 23.5 | 1.00 | 0.5 | | 18.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/4/2003 | Bielski, Jason | San Antonio | Upstream | 25.1 | 1.07 | 1.2 | | 17.9 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/5/2003 | Stolz, Jennifer | San Antonio | Upstream | 22.5 | 1.08 | 1.4 | | 17.6 | waxing crescent | 3 | 2 | 1 | 0 | 482 | 520 | 501 |
| 4/6/2003 | Sak, Brian | San Antonio | Upstream | 23.9 | 1.02 | 0.6 | | 17.8 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/7/2003 | Bielski, Jason | San Antonio | Upstream | 24.3 | 0.99 | 0.4 | | 18.8 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/8/2003 | Foree, Sonya | San Antonio | Upstream | 22.9 | 1.02 | 0.6 | | 19.3 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/9/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | 24.5 | 0.97 | 0.3 | | 19.4 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/10/2003 | Horvath, Mike | San Antonio | Upstream | 23.3 | 0.97 | 0.3 | | 18.9 | first quarter | 1 | 1 | 0 | 0 | 418 | 418 | -- |
| 4/11/2003 | Horvath, Mike | San Antonio | Upstream | 23.7 | 0.97 | 0.3 | | 19.4 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 4/12/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | 24.8 | 0.96 | 0.3 | | 17.8 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 4/13/2003 | *** BLOWOUT OF UPSTREAM TRAP ON 4/12/03 *** | | | | | | | | | | | | | | | |
| 4/14/2003 | *** UPSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/15/2003 | *** UPSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/16/2003 | *** UPSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/17/2003 | *** UPSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | |
| 4/18/2003 | Sak, Brian | San Antonio | Upstream | 16.6 | 1.24 | > 5.0 | | 17.4 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/19/2003 | Norris, Dot | San Antonio | Upstream | 23.2 | 1.22 | > 5.0 | | 18.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/20/2003 | Chenue, Scott | San Antonio | Upstream | 23.5 | 1.14 | 3.1 | | 17.8 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/21/2003 | Bielski, Jason | San Antonio | Upstream | 26.8 | 1.14 | 3.1 | | 17.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/22/2003 | Kellogg, Mike | San Antonio | Upstream | 29.6 | 1.18 | 5.1 | | 18.1 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/23/2003 | Targgart, Laura | San Antonio | Upstream | 20.3 | 1.14 | 3.1 | | 18.2 | last quarter | 0 | 0 | 0 | 0 | | | |
| 4/24/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | 20.7 | 1.22 | > 5.0 | | 17.3 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/25/2003 | Horvath, Mike | San Antonio | Upstream | 22.3 | 1.30 | > 5.0 | | 16.3 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/26/2003 | Horvath, Mike | San Antonio | Upstream | 23.3 | 1.61 | > 5.0 | | 16.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/27/2003 | Kellogg, Mike | San Antonio | Upstream | 23.3 | 1.36 | > 5.0 | | 16.9 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/28/2003 | Sak, Brian | San Antonio | Upstream | 23.8 | 2.04 | > 5.0 | | 15.8 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/29/2003 | *** UPSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/30/2003 | Brinkerhoff, Aaron | San Antonio | Upstream | 23.0 | 1.28 | > 5.0 | | 16.9 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/30/2003 | *** PULLED SAN ANTONIO CREEK UPSTREAM TRAP FOR THE YEAR *** | | | | | | | | | | | | | | | |
| 3/3/2003 | *** INITIAL INSTALLATION OF INDIAN CREEK TRAP FOR DOWNSTREAM MOVING FISH *** | | | | | | | | | | | | | | | |
| 3/4/2003 | Stolz, Jennifer | Indian | Downstream | 22.5 | 1.09 | 0.9 | 14.0 | 14.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/5/2003 | Norris, Dot | Indian | Downstream | 21.1 | 1.10 | 0.9 | 14.0 | 14.5 | waxing crescent | 2 | 1 | 0 | 1 | -- | | |
| 3/6/2003 | Stolz, Jennifer | Indian | Downstream | 22.3 | 1.08 | 0.8 | 18.5 | 12.5 | waxing crescent | 3 | 1 | 0 | 0 | 492 | 520 | 511 |
| 3/7/2003 | Brinkerhoff, Aaron | Indian | Downstream | 22.8 | 1.06 | 0.6 | 12.5 | 12.5 | waxing crescent | 1 | 1 | 0 | 0 | 547 | 547 | -- |
| 3/8/2003 | Stolz, Jennifer | Indian | Downstream | 24.3 | 1.04 | 0.5 | 14.0 | 13.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/9/2003 | Sak, Brian | Indian | Downstream | 24.4 | 1.04 | 0.5 | 16.5 | 15.5 | waxing crescent | 1 | 1 | 0 | 0 | -- | -- | -- |
| 3/10/2003 | Horvath, Mike | Indian | Downstream | 21.5 | 1.04 | 0.5 | 14.5 | 12.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/11/2003 | Stolz, Jennifer | Indian | Downstream | 23.2 | 1.03 | 0.4 | 17.5 | 12.5 | first quarter | 1 | 0 | 0 | 1 | -- | -- | -- |
| 3/12/2003 | Norris, Dot | Indian | Downstream | 28.0 | 1.03 | 0.4 | 22.0 | 20.0 | waxing gibbous | 1 | 1 | 0 | 0 | 530 | 530 | -- |
| 3/13/2003 | Brinkerhoff, Aaron | Indian | Downstream | 25.1 | 1.02 | 0.4 | 15.5 | 15.5 | waxing gibbous | 2 | 2 | 0 | 0 | 480 | 560 | 520 |
| 3/14/2003 | Brinkerhoff, Aaron | Indian | Downstream | 19.1 | 1.04 | 0.5 | 25.5 | 17.0 | waxing gibbous | 2 | 2 | 0 | 0 | 495 | 495 | -- |
| 3/15/2003 | Bielski, Jason | Indian | Downstream | 26.2 | 1.35 | 2.5 | 20.0 | 15.0 | waxing gibbous | 5 | 3 | 0 | 2 | 449 | 510 | 489 |
| 3/16/2003 | Horvath, Mike | Indian | Downstream | 20.3 | 1.26 | 1.9 | 12.0 | 15.0 | waxing gibbous | 20 | 11 | 7 | 2 | 435 | 555 | 511 |
| 3/17/2003 | Sak, Brian | Indian | Downstream | 20.7 | 1.28 | 2.1 | 19.0 | 15.0 | waxing gibbous | 4 | 3 | 1 | 0 | 409 | 527 | 487 |
| 3/18/2003 | Brinkerhoff, Aaron | Indian | Downstream | 22.4 | 1.18 | 1.4 | 17.0 | 14.5 | full | 0 | 0 | 0 | 0 | | | |
| 3/19/2003 | Stolz, Jennifer | Indian | Downstream | 22.8 | 1.16 | 1.3 | 18.0 | 14.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/20/2003 | Horvath, Mike | Indian | Downstream | 23.7 | 1.16 | 1.3 | 14.5 | 14.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/21/2003 | Sak, Brian | Indian | Downstream | 23.9 | 1.16 | 1.3 | 15.0 | 15.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/22/2003 | Targgart, Laura | Indian | Downstream | 23.1 | 1.13 | 1.1 | 15.0 | 14.0 | waning gibbous | 1 | 0 | 1 | 0 | -- | -- | -- |
| 3/23/2003 | Brinkerhoff, Aaron | Indian | Downstream | 26.8 | 1.14 | 1.2 | 16.0 | 16.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/24/2003 | Chenue, Scott | Indian | Downstream | 20.7 | 1.13 | 1.1 | 14.0 | 15.0 | waning gibbous | 3 | 0 | 0 | 3 | -- | -- | -- |
| 3/25/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.4 | 1.10 | 0.9 | 19.0 | 16.5 | last quarter | 3 | 3 | 0 | 0 | 512 | 536 | 526 |
| 3/26/2003 | Horvath, Mike | Indian | Downstream | 23.6 | 1.11 | 1.0 | 17.0 | 15.5 | waning crescent | 1 | 1 | 0 | 0 | -- | -- | -- |
| 3/27/2003 | Stolz, Jennifer | Indian | Downstream | 23.3 | 1.11 | 1.0 | 19.0 | 14.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/28/2003 | Targgart, Laura | Indian | Downstream | 23.8 | 1.11 | 1.0 | 15.0 | 14.0 | waning crescent | 0 | 0 | 0 | 0 | | | |

San Antonio Creek, Indian Creek and Arroyo Hondo

| Date | Permitted Biologist | Creek | Trap For Upstream or Downstream Moving Fish | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number of Fish | | | | All Trout | | |
|-----------|--|--------|--|--------------------------|------------------------|---------------|---------------------|-----------------------|-----------------|----------------------|--------|------|--------------|------------------|------|------|
| | | | | | | | | | | All Trout | Female | Male | Not Known | Fork Length (mm) | | |
| | | | | | | | | | | | | | | Min. | Max. | Avg. |
| 3/29/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.7 | 1.10 | 0.9 | 22.0 | 18.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/30/2003 | Chenue, Scott | Indian | Downstream | 23.3 | 1.09 | 0.9 | 22.5 | 19.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/31/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.5 | 1.10 | 0.9 | | 17.0 | waning crescent | 1 | 1 | 0 | 0 | 495 | 495 | -- |
| 4/1/2003 | Norris, Dot | Indian | Downstream | 26.1 | 1.07 | 0.7 | 12.0 | 14.0 | new | 0 | 0 | 0 | 0 | | | |
| 4/2/2003 | Horvath, Mike | Indian | Downstream | 20.9 | 1.10 | 0.9 | 15.0 | 14.5 | waxing crescent | 3 | 1 | 0 | 2 | 499 | 499 | -- |
| 4/3/2003 | Stolz, Jennifer | Indian | Downstream | 22.8 | 1.10 | 0.9 | 20.0 | 15.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/4/2003 | Brinkerhoff, Aaron | Indian | Downstream | 24.0 | 1.14 | 1.2 | 19.0 | 15.0 | waxing crescent | 1 | 1 | 0 | 0 | 524 | 524 | -- |
| 4/5/2003 | Stolz, Jennifer | Indian | Downstream | 24.7 | 1.11 | 1.0 | 17.0 | 15.0 | waxing crescent | 1 | 1 | 0 | 0 | 470 | 470 | -- |
| 4/6/2003 | Sak, Brian | Indian | Downstream | 22.9 | 1.11 | 1.0 | 13.5 | 12.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/7/2003 | Bielski, Jason | Indian | Downstream | 22.4 | 1.13 | 1.1 | 15.0 | 13.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/8/2003 | Foree, Sonya | Indian | Downstream | 23.3 | 1.10 | 0.9 | 19.5 | 13.0 | waxing crescent | 2 | 0 | 0 | 2 | -- | -- | -- |
| 4/9/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.8 | 1.08 | 0.8 | 15.5 | 15.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/10/2003 | Horvath, Mike | Indian | Downstream | 22.9 | 1.08 | 0.8 | 17.5 | 14.5 | first quarter | 0 | 0 | 0 | 0 | | | |
| 4/11/2003 | Horvath, Mike | Indian | Downstream | 23.4 | 1.04 | 0.5 | 13.5 | 14.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 4/12/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.8 | 1.07 | 0.7 | 16.0 | 14.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 4/13/2003 | Bielski, Jason | Indian | Downstream | | 2.38 | > 5.0 | 17.0 | 12.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 4/14/2003 | *** BLOWOUT OF DOWNSTREAM TRAP ON 4/13/03 *** | | | | | | | | | | | | | | | |
| 4/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/16/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/17/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | |
| 4/18/2003 | Sak, Brian | Indian | Downstream | 20.6 | 1.37 | 2.6 | 13.5 | 11.5 | waning gibbous | 2 | 2 | 0 | 0 | 529 | 529 | -- |
| 4/19/2003 | Norris, Dot | Indian | Downstream | 22.3 | 1.32 | 2.3 | 15.0 | 11.0 | waning gibbous | 1 | 1 | 0 | 0 | 464 | 464 | -- |
| 4/20/2003 | Chenue, Scott | Indian | Downstream | 22.9 | 1.27 | 2.0 | 15.0 | 11.5 | waning gibbous | 1 | 1 | 0 | 0 | 399 | 399 | -- |
| 4/21/2003 | Bielski, Jason | Indian | Downstream | 25.0 | 1.27 | 2.0 | 14.0 | 15.5 | waning gibbous | 1 | 0 | 1 | 0 | -- | -- | -- |
| 4/22/2003 | Kellogg, Mike | Indian | Downstream | 26.9 | 1.28 | 2.1 | 19.0 | 15.0 | waning gibbous | 1 | 0 | 1 | 0 | 506 | 506 | -- |
| 4/23/2003 | Targgart, Laura | Indian | Downstream | 19.7 | 1.22 | 1.7 | 19.5 | 14.5 | last quarter | 2 | 2 | 0 | 0 | 484 | 564 | 524 |
| 4/24/2003 | Kellogg, Mike | Indian | Downstream | 22.3 | 1.33 | 2.3 | 12.0 | 12.0 | waning crescent | 3 | 1 | 2 | 0 | 379 | 490 | 450 |
| 4/25/2003 | Brinkerhoff, Aaron | Indian | Downstream | 22.3 | 1.35 | 2.5 | 14.0 | 12.0 | waning crescent | 2 | 2 | 0 | 0 | 335 | 525 | 430 |
| 4/26/2003 | Targgart, Laura | Indian | Downstream | 24.0 | 1.50 | 3.2 | 17.0 | 13.0 | waning crescent | 1 | 1 | 0 | 0 | -- | -- | -- |
| 4/27/2003 | Kellogg, Mike | Indian | Downstream | 22.7 | 1.53 | 3.4 | 19.0 | 14.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/28/2003 | Sak, Brian | Indian | Downstream | 21.9 | 1.60 | 3.7 | | | waning crescent | 1 | 0 | 1 | 0 | 482 | 482 | -- |
| 4/29/2003 | Bielski, Jason | Indian | Downstream | 25.4 | 1.52 | 3.3 | 15.5 | 12.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/30/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.0 | 1.50 | 3.2 | 17.5 | 13.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/1/2003 | Stolz, Jennifer | Indian | Downstream | 21.0 | 1.40 | 2.7 | 16.0 | 12.0 | new | 2 | 1 | 1 | 0 | 490 | 504 | 497 |
| 5/2/2003 | Targgart, Laura | Indian | Downstream | 22.9 | 1.36 | 2.5 | 16.5 | 13.0 | waxing crescent | 1 | 0 | 1 | 0 | 549 | 549 | -- |
| 5/3/2003 | *** DOWNSTREAM TRAP PULLED ON 5/2/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | |
| 5/4/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 5/5/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 5/6/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | |
| 5/7/2003 | Bielski, Jason | Indian | Downstream | 21.1 | 1.58 | 3.6 | 14.0 | 12.0 | waxing crescent | 1 | 1 | 0 | 0 | 425 | 425 | -- |
| 5/8/2003 | Stolz, Jennifer | Indian | Downstream | 23.8 | 1.40 | 2.7 | 10.0 | 12.0 | waxing crescent | 1 | 0 | 1 | 0 | 518 | 518 | -- |
| 5/9/2003 | Kellogg, Mike | Indian | Downstream | 24.1 | 1.36 | 2.5 | 13.5 | 13.5 | first quarter | 0 | 0 | 0 | 0 | | | |
| 5/10/2003 | Horvath, Mike | Indian | Downstream | 23.3 | 1.30 | 2.2 | 19.0 | 13.5 | waxing gibbous | 2 | 0 | 2 | 0 | 475 | 529 | 502 |
| 5/11/2003 | Bielski, Jason | Indian | Downstream | 22.6 | 1.26 | 1.9 | 16.5 | 14.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/12/2003 | Targgart, Laura | Indian | Downstream | 23.0 | 1.24 | 1.8 | 23.5 | 15.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/13/2003 | Foree, Sonya | Indian | Downstream | 23.6 | 1.20 | 1.6 | 20.0 | 17.5 | waxing gibbous | 2 | 1 | 1 | 0 | 435 | 478 | 456 |
| 5/14/2003 | Stolz, Jennifer | Indian | Downstream | 25.1 | 1.18 | 1.4 | 21.5 | 18.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/15/2003 | Sak, Brian | Indian | Downstream | 22.0 | 1.17 | 1.4 | 23.0 | 16.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/16/2003 | Bielski, Jason | Indian | Downstream | 23.3 | 1.17 | 1.4 | 23.0 | 16.5 | full | 0 | 0 | 0 | 0 | | | |
| 5/17/2003 | Foree, Sonya | Indian | Downstream | 24.7 | 1.14 | 1.2 | 17.0 | 21.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/18/2003 | Sak, Brian | Indian | Downstream | 20.2 | 1.15 | 1.3 | 20.5 | 15.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/19/2003 | Kellogg, Mike | Indian | Downstream | 24.2 | 1.14 | 1.2 | 22.0 | 18.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/20/2003 | Norris, Dot | Indian | Downstream | 21.2 | 1.12 | 1.1 | 24.5 | 17.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/21/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.3 | 1.12 | 1.1 | 27.0 | 19.0 | waning gibbous | 2 | 1 | 1 | 0 | 425 | 508 | 466 |
| 5/22/2003 | Brinkerhoff, Aaron | Indian | Downstream | 21.6 | 1.12 | 1.1 | 19.0 | 17.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/23/2003 | Kellogg, Mike | Indian | Downstream | 23.2 | 1.10 | 0.9 | 22.5 | 20.5 | last quarter | 0 | 0 | 0 | 0 | | | |
| 5/24/2003 | Horvath, Mike | Indian | Downstream | 21.6 | 1.08 | 0.8 | 16.5 | 16.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/25/2003 | Norris, Dot | Indian | Downstream | 23.3 | 1.10 | 0.9 | 19.0 | 17.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/26/2003 | Horvath, Mike | Indian | Downstream | 22.7 | 1.05 | 0.6 | 21.0 | 20.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/27/2003 | Norris, Dot | Indian | Downstream | 22.3 | 1.07 | 0.7 | 27.0 | 22.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/28/2003 | Brinkerhoff, Aaron | Indian | Downstream | 22.7 | 1.06 | 0.6 | 23.5 | 21.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/29/2003 | Stolz, Jennifer | Indian | Downstream | 23.0 | 1.04 | 0.5 | 28.0 | 21.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/30/2003 | Sak, Brian | Indian | Downstream | 23.0 | | | | | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/31/2003 | Brinkerhoff, Aaron | Indian | Downstream | 27.7 | 1.04 | 0.5 | 28.0 | 24.5 | new | 0 | 0 | 0 | 0 | | | |
| 6/1/2003 | Norris, Dot | Indian | Downstream | 18.3 | 1.01 | 0.3 | 26.5 | 19.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/2/2003 | Targgart, Laura | Indian | Downstream | 22.3 | 1.02 | 0.4 | 25.0 | 19.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/3/2003 | Norris, Dot | Indian | Downstream | 24.2 | 1.01 | 0.3 | 27.0 | 22.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/4/2003 | Brinkerhoff, Aaron | Indian | Downstream | 21.6 | 1.00 | 0.2 | 22.5 | 21.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/5/2003 | Bielski, Jason | Indian | Downstream | 23.8 | 1.00 | 0.2 | 26.0 | | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/6/2003 | Kellogg, Mike | Indian | Downstream | 22.1 | 1.00 | 0.2 | 21.5 | 22.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/7/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.3 | 0.99 | 0.1 | 24.0 | 23.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/8/2003 | Horvath, Mike | Indian | Downstream | 21.3 | 0.98 | 0.1 | 17.5 | 17.5 | first quarter | 0 | 0 | 0 | 0 | | | |
| 6/9/2003 | Norris, Dot | Indian | Downstream | 23.1 | 0.99 | 0.1 | 21.0 | 19.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 6/10/2003 | Bielski, Jason | Indian | Downstream | 22.7 | 1.00 | 0.2 | 18.0 | 21.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 6/11/2003 | Brinkerhoff, Aaron | Indian | Downstream | 22.2 | 0.98 | 0.1 | 26.0 | 18.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 6/12/2003 | Norris, Dot | Indian | Downstream | 22.7 | 0.97 | < 0.1 | 16.0 | 15.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 6/13/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.5 | 0.98 | 0.1 | 15.0 | 15.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 6/14/2003 | *** DOWNSTREAM TRAP PULLED ON 6/13/03 DUE TO LOW WATER *** | | | | | | | | | | | | | | | |
| 6/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 6/16/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | |

Fish Trapping Data Summary 2003

| Date | Permitted Biologist | Creek | Trap | | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number of Fish | | | | All Trout | | |
|-----------|--|--------|--|------------------|--------------------|------------------|------------|---------------|-----------------|-----------------|----------------------|------------------|------------------|------|-----------|--------|------|
| | | | For Upstream or Downstream Moving Fish | Fork Length (mm) | | | | | | | Not Known | Fork Length (mm) | Fork Length (mm) | Avg. | | | |
| | | | | | | | | | | | | | | | All Trout | Female | Male |
| 6/17/2003 | Bielski, Jason | Indian | Downstream | | 23.8 | 0.96 | < 0.1 | 15.5 | 18.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 6/18/2003 | Norris, Dot | Indian | Downstream | | 22.7 | 0.94 | < 0.1 | 18.0 | 16.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 6/19/2003 | Norris, Dot | Indian | Downstream | | 24.1 | 0.94 | < 0.1 | 23.5 | 17.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 6/19/2003 | *** PULLED INDIAN CREEK DOWNSTREAM TRAP FOR THE YEAR *** | | | | | | | | | | | | | | | | |
| 1/14/2003 | *** INITIAL INSTALLATION OF INDIAN CREEK TRAP FOR UPSTREAM MOVING FISH *** | | | | | | | | | | | | | | | | |
| 1/15/2003 | Sak, Brian | Indian | Upstream | | 20.0 | 1.07 | 0.7 | 13.0 | 11.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/16/2003 | Sak, Brian | Indian | Upstream | | 23.7 | 1.07 | 0.7 | 10.5 | 11.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/17/2003 | Sak, Brian | Indian | Upstream | | 23.7 | 1.05 | 0.6 | | | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 1/18/2003 | Sak, Brian | Indian | Upstream | | 23.8 | 1.04 | 0.5 | 7.0 | 7.5 | full | 0 | 0 | 0 | 0 | | | |
| 1/19/2003 | Sak, Brian | Indian | Upstream | | 23.4 | 1.06 | 0.6 | 4.5 | 8.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/20/2003 | Norris, Dot | Indian | Upstream | | 24.5 | 1.05 | 0.6 | 6.8 | 8.8 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/21/2003 | Sak, Brian | Indian | Upstream | | 23.7 | 1.05 | 0.6 | 9.5 | 9.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/22/2003 | Chenue, Scott | Indian | Upstream | | 24.7 | 1.03 | 0.4 | 10.0 | 9.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/23/2003 | Chenue, Scott | Indian | Upstream | | 22.7 | 1.03 | 0.4 | 10.0 | 9.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/24/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 24.3 | 1.02 | 0.4 | 11.0 | 10.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 1/25/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 25.8 | 1.02 | 0.4 | 16.0 | 12.0 | last quarter | 0 | 0 | 0 | 0 | | | |
| 1/26/2003 | Norris, Dot | Indian | Upstream | | 21.0 | 1.01 | 0.3 | 9.5 | 9.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/27/2003 | Chenue, Scott | Indian | Upstream | | 24.7 | 1.01 | 0.3 | 10.0 | 12.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/28/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 23.8 | 1.01 | 0.3 | 15.0 | 10.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/29/2003 | Bielski, Jason | Indian | Upstream | | 23.7 | 1.00 | 0.2 | 7.5 | 8.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/30/2003 | Sak, Brian | Indian | Upstream | | 24.0 | 1.01 | 0.3 | 11.5 | 9.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/31/2003 | Norris, Dot | Indian | Upstream | | 23.9 | 1.00 | 0.2 | 15.0 | 11.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 2/1/2003 | Sak, Brian | Indian | Upstream | | 23.7 | 0.99 | 0.1 | 11.0 | 10.0 | new | 0 | 0 | 0 | 0 | | | |
| 2/2/2003 | Sak, Brian | Indian | Upstream | | 23.9 | 1.00 | 0.2 | 13.0 | 11.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/3/2003 | Norris, Dot | Indian | Upstream | | 23.3 | 0.99 | 0.1 | 10.0 | 10.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/4/2003 | Bielski, Jason | Indian | Upstream | | 24.8 | 0.98 | 0.1 | 14.0 | 10.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/5/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 23.5 | 0.98 | 0.1 | 8.0 | 9.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/6/2003 | Stolz, Jennifer | Indian | Upstream | | 23.7 | 0.96 | < 0.1 | 11.0 | 10.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/7/2003 | Sak, Brian | Indian | Upstream | | 24.6 | 0.98 | 0.1 | 10.0 | 10.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/8/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 23.6 | 0.97 | < 0.1 | 13.0 | 10.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/9/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 23.8 | 0.96 | < 0.1 | 11.0 | 10.0 | first quarter | 0 | 0 | 0 | 0 | | | |
| 2/10/2003 | Chenue, Scott | Indian | Upstream | | 22.8 | 0.96 | < 0.1 | 7.0 | 8.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/11/2003 | Stolz, Jennifer | Indian | Upstream | | 23.9 | 0.96 | < 0.1 | 7.5 | 9.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/12/2003 | Kellogg, Mike | Indian | Upstream | | 27.5 | 0.97 | < 0.1 | 13.0 | 12.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/13/2003 | Chenue, Scott | Indian | Upstream | | 26.3 | 0.99 | 0.1 | 16.5 | 14.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/14/2003 | Bielski, Jason | Indian | Upstream | | 17.5 | 0.98 | 0.1 | 12.0 | 12.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/15/2003 | Stolz, Jennifer | Indian | Upstream | | 24.7 | 0.98 | 0.1 | 11.0 | 11.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/16/2003 | Foree, Sonya | Indian | Upstream | | 23.5 | 1.08 | 0.8 | 16.5 | 12.0 | full | 1 | 1 | 0 | 0 | 420 | 420 | -- |
| 2/17/2003 | Bielski, Jason | Indian | Upstream | | 23.0 | 1.01 | 0.3 | 10.0 | 11.5 | waning gibbous | 3 | 2 | 1 | 0 | 370 | 505 | 449 |
| 2/18/2003 | Norris, Dot | Indian | Upstream | | 23.1 | 0.99 | 0.1 | 15.5 | 10.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/19/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 26.7 | 0.98 | 0.1 | 15.0 | 13.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/20/2003 | Stolz, Jennifer | Indian | Upstream | | 20.4 | 0.98 | 0.1 | 16.0 | 17.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/21/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 24.0 | 0.98 | 0.1 | 12.5 | 11.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/22/2003 | Bielski, Jason | Indian | Upstream | | 23.1 | 0.98 | 0.1 | 15.5 | 11.0 | waning gibbous | 1 | 1 | 0 | 0 | 368 | 368 | -- |
| 2/23/2003 | Horvath, Mike | Indian | Upstream | | 23.7 | 0.96 | < 0.1 | 12.0 | 10.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 2/24/2003 | Chenue, Scott | Indian | Upstream | | 26.3 | 1.00 | 0.2 | 15.0 | 12.5 | last quarter | 2 | 2 | 0 | 0 | 492 | 499 | 496 |
| 2/25/2003 | Kellogg, Mike | Indian | Upstream | | 20.9 | 1.18 | 1.4 | 14.0 | 11.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 2/26/2003 | Sak, Brian | Indian | Upstream | | 24.9 | 1.10 | 0.9 | 14.5 | 12.5 | waning crescent | 8 | 7 | 1 | 0 | 482 | 567 | 522 |
| 2/27/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 21.8 | 1.17 | 1.4 | 12.5 | 11.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 2/28/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 22.5 | 1.13 | 1.1 | 10.0 | 11.0 | waning crescent | 3 | 3 | 0 | 0 | 394 | 492 | 452 |
| 3/1/2003 | Norris, Dot | Indian | Upstream | | 22.3 | 1.12 | 1.1 | 13.5 | 11.0 | waning crescent | 2 | 2 | 0 | 0 | 535 | 562 | 548 |
| 3/2/2003 | Bielski, Jason | Indian | Upstream | | 23.6 | 1.14 | 1.2 | 10.0 | 11.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/3/2003 | Targgart, Laura | Indian | Upstream | | 26.6 | 1.09 | 0.9 | 12.0 | 12.5 | new | 1 | 0 | 1 | 0 | 495 | 495 | -- |
| 3/4/2003 | Stolz, Jennifer | Indian | Upstream | | 23.7 | 1.09 | 0.9 | 14.0 | 14.0 | waxing crescent | 1 | 1 | 0 | 0 | 540 | 540 | -- |
| 3/5/2003 | Norris, Dot | Indian | Upstream | | 20.4 | 1.10 | 0.9 | 14.0 | 14.5 | waxing crescent | 3 | 2 | 0 | 1 | 500 | 550 | 520 |
| 3/6/2003 | Stolz, Jennifer | Indian | Upstream | | 22.7 | 1.08 | 0.8 | 18.5 | 12.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/7/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 24.3 | 1.06 | 0.6 | 12.5 | 12.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/8/2003 | Stolz, Jennifer | Indian | Upstream | | 23.5 | 1.04 | 0.5 | 14.0 | 13.0 | waxing crescent | 2 | 1 | 1 | 0 | 466 | 555 | 510 |
| 3/9/2003 | Sak, Brian | Indian | Upstream | | 24.9 | 1.04 | 0.5 | 16.5 | 15.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/10/2003 | Horvath, Mike | Indian | Upstream | | 22.2 | 1.04 | 0.5 | 14.5 | 12.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/11/2003 | Stolz, Jennifer | Indian | Upstream | | 23.7 | 1.03 | 0.4 | 17.5 | 12.5 | first quarter | 1 | 1 | 0 | 0 | 492 | 492 | -- |
| 3/12/2003 | Norris, Dot | Indian | Upstream | | 28.3 | 1.03 | 0.4 | 22.0 | 20.0 | waxing gibbous | 2 | 2 | 0 | 0 | 455 | 490 | 472 |
| 3/13/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 25.8 | 1.02 | 0.4 | 15.5 | 15.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/14/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 19.1 | 1.04 | 0.5 | 25.5 | 17.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/15/2003 | Bielski, Jason | Indian | Upstream | | 27.0 | 1.35 | 2.5 | 20.0 | 15.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/16/2003 | Horvath, Mike | Indian | Upstream | | 23.3 | 1.26 | 1.9 | 13.0 | 15.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/17/2003 | Sak, Brian | Indian | Upstream | | 20.3 | 1.28 | 2.1 | 19.0 | 15.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/18/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 22.4 | 1.18 | 1.4 | 17.0 | 14.5 | full | 0 | 0 | 0 | 0 | | | |
| 3/19/2003 | Stolz, Jennifer | Indian | Upstream | | 22.5 | 1.16 | 1.3 | 18.0 | 14.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/20/2003 | Horvath, Mike | Indian | Upstream | | 23.8 | 1.16 | 1.3 | 14.5 | 14.5 | waning gibbous | 1 | 1 | 0 | 0 | 490 | 490 | -- |
| 3/21/2003 | Sak, Brian | Indian | Upstream | | 23.7 | 1.16 | 1.3 | 15.0 | 15.5 | waning gibbous | 6 | 5 | 1 | 0 | 444 | 534 | 488 |
| 3/22/2003 | Targgart, Laura | Indian | Upstream | | 22.9 | 1.13 | 1.1 | 15.0 | 14.0 | waning gibbous | 3 | 3 | 0 | 0 | 414 | 517 | 449 |
| 3/23/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 27.3 | 1.14 | 1.2 | 16.0 | 16.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/24/2003 | Chenue, Scott | Indian | Upstream | | 20.7 | 1.13 | 1.1 | 14.0 | 15.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 3/25/2003 | Brinkerhoff, Aaron | Indian | Upstream | | 24.0 | 1.10 | 0.9 | 19.0 | 16.5 | last quarter | 0 | 0 | 0 | 0 | | | |
| 3/26/2003 | Horvath, Mike | Indian | Upstream | | 23.8 | 1.11 | 1.0 | 17.0 | 15.5 | waning crescent | 1 | 1 | 0 | 0 | 390 | 390 | -- |
| 3/27/2003 | Stolz, Jennifer | Indian | Upstream | | 22.3 | 1.11 | 1.0 | 19.0 | 14.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 3/28/2003 | Targgart, Laura | Indian | Upstream | | 22.8 | 1.11 | 1.0 | 15.0 | 14.0 | waning crescent | 5 | 5 | 0 | 0 | 368 | 504 | 457 |
| 3/29/2003 | Brinkerhoff, Aaron | Indian | Upstream | | | | | | | | | | | | | | |

San Antonio Creek, Indian Creek and Arroyo Hondo

| Date | Permitted Biologist | Creek | Trap For Upstream or Downstream Moving Fish | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number of Fish | | | | All Trout | | |
|-----------|--|--------------|--|--------------------------|------------------------|---------------|---------------------|-----------------------|-----------------|----------------------|--------|------|-----------|-----------|------|------|
| | | | | | | | | | | All Trout | Female | Male | Not Known | Min. | Max. | Avg. |
| 3/31/2003 | Brinkerhoff, Aaron | Indian | Upstream | 23.0 | 1.10 | 0.9 | 23.0 | 17.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/1/2003 | Norris, Dot | Indian | Upstream | 25.9 | 1.07 | 0.7 | 12.0 | 14.0 | new | 0 | 0 | 0 | 0 | | | |
| 4/2/2003 | Horvath, Mike | Indian | Upstream | 21.4 | 1.10 | 0.9 | 15.0 | 14.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/3/2003 | Stolz, Jennifer | Indian | Upstream | 22.9 | 1.10 | 0.9 | 20.0 | 15.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/4/2003 | Brinkerhoff, Aaron | Indian | Upstream | 24.8 | 1.14 | 1.2 | 19.0 | 15.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/5/2003 | Stolz, Jennifer | Indian | Upstream | 24.6 | 1.11 | 1.0 | 17.0 | 15.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/6/2003 | Sak, Brian | Indian | Upstream | 22.3 | 1.11 | 1.0 | 13.5 | 12.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/7/2003 | Bielski, Jason | Indian | Upstream | 23.0 | 1.13 | 1.1 | 15.0 | 13.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/8/2003 | Foree, Sonya | Indian | Upstream | 24.5 | 1.10 | 0.9 | 19.5 | 13.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/9/2003 | Brinkerhoff, Aaron | Indian | Upstream | 23.3 | 1.08 | 0.8 | 15.5 | 15.5 | waxing crescent | 1 | 1 | 0 | 0 | 479 | 479 | -- |
| 4/10/2003 | Horvath, Mike | Indian | Upstream | 23.3 | 1.08 | 0.8 | 17.5 | 14.5 | first quarter | 1 | 1 | 0 | 0 | 343 | 343 | -- |
| 4/11/2003 | Horvath, Mike | Indian | Upstream | 23.5 | 1.04 | 0.5 | 13.5 | 14.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 4/12/2003 | Brinkerhoff, Aaron | Indian | Upstream | 23.6 | 1.07 | 0.7 | 16.0 | 14.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 4/13/2003 | *** BLOWOUT OF UPSTREAM TRAP ON 4/12/03 *** | | | | | | | | | | | | | | | |
| 4/14/2003 | *** UPSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/15/2003 | *** UPSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | |
| 4/16/2003 | Targgart, Laura | Indian | Upstream | 19.9 | 1.42 | 2.8 | 14.0 | 11.5 | full | 0 | 0 | 0 | 0 | | | |
| 4/17/2003 | Norris, Dot | Indian | Upstream | 24.5 | 1.40 | 2.7 | 15.5 | 11.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/18/2003 | Sak, Brian | Indian | Upstream | 22.8 | 1.37 | 2.6 | 13.5 | 11.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/19/2003 | Norris, Dot | Indian | Upstream | 23.2 | 1.32 | 2.3 | 12.0 | 10.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/20/2003 | Chenue, Scott | Indian | Upstream | 23.9 | 1.27 | 2.0 | 15.0 | 11.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/21/2003 | Bielski, Jason | Indian | Upstream | 25.9 | 1.27 | 2.0 | 14.0 | 15.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/22/2003 | Kellogg, Mike | Indian | Upstream | 27.9 | 1.28 | 2.1 | 19.0 | 15.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/23/2003 | Targgart, Laura | Indian | Upstream | 19.6 | 1.22 | 1.7 | 19.5 | 14.5 | last quarter | 0 | 0 | 0 | 0 | | | |
| 4/24/2003 | Kellogg, Mike | Indian | Upstream | 23.3 | 1.33 | 2.3 | 12.0 | 12.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/25/2003 | Brinkerhoff, Aaron | Indian | Upstream | 22.8 | 1.35 | 2.5 | 14.0 | 12.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/26/2003 | Targgart, Laura | Indian | Upstream | 23.8 | 1.50 | 3.2 | 15.5 | 13.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/27/2003 | Kellogg, Mike | Indian | Upstream | 23.7 | 1.53 | 3.4 | 19.0 | 14.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/28/2003 | Sak, Brian | Indian | Upstream | 23.0 | 1.60 | 3.7 | | | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/29/2003 | Bielski, Jason | Indian | Upstream | 26.0 | 1.52 | 3.3 | 15.5 | 12.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/30/2003 | Brinkerhoff, Aaron | Indian | Upstream | 23.2 | 1.50 | 3.2 | 17.5 | 13.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 4/30/2003 | *** PULLED INDIAN CREEK UPSTREAM TRAP FOR THE YEAR *** | | | | | | | | | | | | | | | |
| 3/6/2003 | *** INITIAL INSTALLATION OF ARROYO HONDO TRAP FOR DOWNSTREAM MOVING FISH *** | | | | | | | | | | | | | | | |
| 3/7/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 19.7 | 1.31 | 14.0 | 14.5 | 12.0 | waxing crescent | 2 | 1 | 1 | 0 | 490 | 502 | 496 |
| 3/8/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | 24.2 | 1.30 | 13.0 | 13.0 | 12.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/9/2003 | Sak, Brian | Arroyo Hondo | Downstream | 25.0 | 1.26 | 12.0 | 17.0 | 11.5 | waxing crescent | 1 | 1 | 0 | 0 | 475 | 475 | -- |
| 3/10/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 21.5 | 1.26 | 12.0 | 18.5 | 13.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 3/11/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | 22.9 | 1.24 | 12.0 | 23.0 | 12.0 | first quarter | 0 | 0 | 0 | 0 | | | |
| 3/12/2003 | Norris, Dot | Arroyo Hondo | Downstream | 21.4 | 1.23 | 11.0 | 17.5 | 12.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 3/13/2003 | Bielski, Jason | Arroyo Hondo | Downstream | 23.5 | 1.10 | 11.0 | 16.5 | 11.0 | waxing gibbous | 2 | 1 | 1 | 0 | 445 | 510 | 478 |
| 3/14/2003 | *** DOWNSTREAM TRAP PULLED ON 3/13/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | |
| 3/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 3/16/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 3/17/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 3/18/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | |
| 3/19/2003 | Sak, Brian | Arroyo Hondo | Downstream | 21.8 | 1.67 | 30.0 | 17.5 | 12.0 | waning gibbous | 5 | 4 | 1 | 0 | 448 | 520 | 478 |
| 3/20/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 23.1 | 1.60 | 26.0 | 14.5 | 11.5 | waning gibbous | 1 | 0 | 1 | 0 | 418 | 418 | -- |
| 3/21/2003 | Sak, Brian | Arroyo Hondo | Downstream | 23.9 | 1.55 | 24.0 | 18.0 | 13.5 | waning gibbous | 2 | 2 | 0 | 0 | 473 | 485 | 479 |
| 3/22/2003 | Targgart, Laura | Arroyo Hondo | Downstream | 23.0 | 1.49 | 21.0 | 17.5 | 13.0 | waning gibbous | 7 | 5 | 2 | 0 | 443 | 519 | 476 |
| 3/23/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 19.4 | 1.50 | 21.0 | 13.5 | 12.0 | waning gibbous | 5 | 4 | 1 | 0 | 470 | 488 | 477 |
| 3/24/2003 | Chenue, Scott | Arroyo Hondo | Downstream | 27.1 | 1.47 | 20.0 | 15.5 | 13.5 | waning gibbous | 5 | 4 | 0 | 1 | 445 | 485 | 462 |
| 3/25/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 22.8 | 1.42 | 18.0 | 21.0 | 13.0 | last quarter | 3 | 2 | 1 | 0 | 438 | 488 | 467 |
| 3/26/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 22.6 | 1.38 | 17.0 | 16.0 | 13.0 | waning crescent | 2 | 1 | 1 | 0 | 445 | 505 | 475 |
| 3/27/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | 22.4 | 1.38 | 16.0 | 15.0 | 13.5 | waning crescent | 4 | 2 | 2 | 0 | 444 | 473 | 463 |
| 3/28/2003 | Targgart, Laura | Arroyo Hondo | Downstream | 24.8 | 1.34 | 15.0 | 19.5 | 13.5 | waning crescent | 3 | 1 | 2 | 0 | 395 | 477 | 423 |
| 3/29/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 24.4 | 1.30 | 13.0 | 24.5 | 14.5 | waning crescent | 3 | 2 | 1 | 0 | 435 | 440 | 437 |
| 3/30/2003 | Chenue, Scott | Arroyo Hondo | Downstream | 24.5 | 1.28 | 13.0 | 24.5 | 16.0 | waning crescent | 2 | 1 | 1 | 0 | 374 | 393 | 384 |
| 3/31/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 21.6 | 1.26 | 12.0 | 24.5 | 15.0 | waning crescent | 2 | 1 | 1 | 0 | 425 | 443 | 434 |
| 4/1/2003 | Norris, Dot | Arroyo Hondo | Downstream | 19.4 | 1.26 | 12.0 | 12.0 | 12.0 | new | 2 | 0 | 2 | 0 | 424 | 424 | 424 |
| 4/2/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 26.2 | 1.32 | 14.0 | 12.0 | 9.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 4/3/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | 23.3 | 1.40 | 17.0 | 15.0 | 13.0 | waxing crescent | 4 | 1 | 3 | 0 | 435 | 524 | 486 |
| 4/4/2003 | Bielski, Jason | Arroyo Hondo | Downstream | 21.3 | 1.58 | 20.0 | 13.0 | 12.5 | waxing crescent | 4 | 3 | 1 | 0 | 405 | 508 | 466 |
| 4/5/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | 24.6 | 1.70 | 28.0 | 14.0 | 13.0 | waxing crescent | 8 | 4 | 3 | 1 | 420 | 528 | 474 |
| 4/6/2003 | *** DOWNSTREAM TRAP DAMAGED AND NOT FISHING - REPAIRED TODAY *** | | | | | | | | | | | | | | | |
| 4/7/2003 | Bielski, Jason | Arroyo Hondo | Downstream | 21.2 | 1.47 | 17.0 | 17.0 | 12.5 | waxing crescent | 2 | 0 | 2 | 0 | 415 | 415 | -- |
| 4/8/2003 | Foree, Sonya | Arroyo Hondo | Downstream | 23.9 | 1.16 | 15.0 | 18.0 | 14.0 | waxing crescent | 4 | 2 | 2 | 0 | 375 | 450 | 396 |
| 4/9/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 22.3 | 1.30 | 14.0 | 21.0 | 15.5 | waxing crescent | 3 | 3 | 0 | 0 | 395 | 495 | 433 |
| 4/10/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 21.6 | 1.31 | 13.0 | 17.0 | 14.0 | first quarter | 1 | 0 | 1 | 0 | 485 | 485 | -- |
| 4/11/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 22.9 | 1.31 | 13.0 | 17.5 | 14.5 | waxing gibbous | 3 | 0 | 3 | 0 | 450 | 477 | 462 |
| 4/12/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 21.8 | 1.28 | 16.0 | 13.5 | 12.0 | waxing gibbous | 1 | 0 | 1 | 0 | 505 | 505 | -- |
| 4/13/2003 | Bielski, Jason | Arroyo Hondo | Downstream | 22.0 | 3.10 | 184.0 | 13.0 | 11.0 | waxing gibbous | 10 | 6 | 4 | 0 | 375 | 480 | 423 |
| 4/14/2003 | *** DOWNSTREAM TRAP PULLED ON 4/13/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | |
| 4/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/16/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/17/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | |
| 4/18/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | |
| 4/19/2003 | Norris, Dot | Arroyo Hondo | Downstream | 21.1 | 1.70 | 45.0 | 22.0 | 14.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 4/20/2003 | Chenue, Scott | Arroyo Hondo | Downstream | 22.3 | 1.63 | 40.0 | 14.0 | 11.0 | waning gibbous | 1 | 0 | 1 | 0 | 424 | 424 | -- |
| 4/21/2003 | Bielski, Jason | Arroyo Hondo | Downstream | 20.4 | 1.59 | 38.0 | 9.0 | 11.0 | waning gibbous | 2 | 1 | 1 | 0 | 410 | 520 | 465 |
| 4/22/2003 | Kellogg, Mike | Arroyo Hondo | Downstream | 25.3 | 1.85 | 53.0 | 14.0 | 12.5 | waning gibbous | 1 | 0 | 1 | 0 | 390 | 590 | -- |

Fish Trapping Data Summary 2003

| Date | Permitted Biologist | Creek | Trap | | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number of Fish | | | | All Trout | | |
|-----------|--|--------------|--|-----------|--------------------|------------------|------------|---------------|-----------------|-----------------|----------------------|------|-----------|------------------|-----------|------|----|
| | | | For Upstream or Downstream Moving Fish | All Trout | | | | | | | Female | Male | Not Known | Fork Length (mm) | | | |
| | | | | | | | | | | | | | | Min. | Max. | Avg. | |
| 4/23/2003 | Targgart, Laura | Arroyo Hondo | Downstream | | 19.8 | 1.85 | 52.0 | 9.5 | 10.5 | last quarter | 0 | 0 | 0 | 0 | | | |
| 4/24/2003 | *** DOWNSTREAM TRAP PULLED ON 4/23/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | |
| 4/25/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/26/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/27/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/28/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/29/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 4/30/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/1/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/2/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/3/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/4/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/5/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/6/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/7/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/8/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/9/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/10/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/11/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/12/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/13/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | |
| 5/14/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | | 20.3 | 1.68 | 40.0 | 14.0 | 14.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/15/2003 | Sak, Brian | Arroyo Hondo | Downstream | | 28.9 | 1.64 | 37.0 | 19.5 | 15.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 5/16/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 22.2 | 1.58 | 34.0 | 21.0 | 16.0 | full | 1 | 0 | 1 | 0 | 373 | 373 | -- |
| 5/17/2003 | Foree, Sonya | Arroyo Hondo | Downstream | | 24.6 | 1.55 | 32.0 | 20.0 | 17.0 | waning gibbous | 1 | 0 | 1 | 0 | 402 | 402 | -- |
| 5/18/2003 | Sak, Brian | Arroyo Hondo | Downstream | | 19.2 | 1.50 | 27.0 | 19.0 | 16.5 | waning gibbous | 1 | 0 | 1 | 0 | 489 | 489 | -- |
| 5/19/2003 | Kellogg, Mike | Arroyo Hondo | Downstream | | 21.8 | 1.42 | 26.0 | 31.5 | 18.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/20/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 21.5 | 1.44 | 25.0 | 25.0 | 18.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/21/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 24.3 | 1.41 | 23.0 | 23.0 | 20.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 5/22/2003 | Sak, Brian | Arroyo Hondo | Downstream | | 21.1 | 1.40 | 22.0 | 25.5 | 19.0 | waning gibbous | 1 | 0 | 1 | 0 | 370 | 370 | -- |
| 5/23/2003 | Kellogg, Mike | Arroyo Hondo | Downstream | | 23.9 | 1.36 | 20.0 | 27.0 | 20.0 | last quarter | 1 | 0 | 1 | 0 | 487 | 487 | -- |
| 5/24/2003 | Horvath, Mike | Arroyo Hondo | Downstream | | 20.7 | 1.35 | 19.0 | 22.0 | 19.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/25/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 24.5 | 1.33 | 18.0 | 26.0 | 19.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/26/2003 | Horvath, Mike | Arroyo Hondo | Downstream | | 20.7 | 1.31 | 17.0 | 26.5 | 20.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/27/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 22.3 | 1.31 | 16.0 | 25.5 | 19.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/28/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 22.3 | 1.26 | 15.0 | 23.0 | 22.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/29/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | | 22.8 | 1.25 | 14.0 | 24.0 | 22.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 5/30/2003 | Sak, Brian | Arroyo Hondo | Downstream | | 22.3 | 1.24 | 13.0 | | | waning crescent | 1 | 0 | 1 | 0 | 427 | 427 | -- |
| 5/31/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 17.5 | 1.25 | 13.0 | 17.5 | 16.0 | new | 1 | 0 | 1 | 0 | 485 | 485 | -- |
| 6/1/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 25.3 | 1.21 | 12.0 | 32.0 | 21.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/2/2003 | Targgart, Laura | Arroyo Hondo | Downstream | | 24.3 | 1.20 | 11.0 | 31.0 | 20.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/3/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 23.1 | 1.16 | 10.0 | 32.0 | 21.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/4/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 20.9 | 1.16 | 9.8 | 29.0 | 20.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/5/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 24.7 | 1.15 | 9.6 | 26.0 | 23.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/6/2003 | Kellogg, Mike | Arroyo Hondo | Downstream | | 23.0 | 1.14 | 9.3 | 23.0 | 21.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/7/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 23.1 | 1.13 | 9.1 | 24.5 | 21.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 6/8/2003 | Horvath, Mike | Arroyo Hondo | Downstream | | 21.0 | 1.13 | 8.8 | 22.0 | 20.0 | first quarter | 0 | 0 | 0 | 0 | | | |
| 6/9/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 23.2 | 1.13 | 8.5 | 19.5 | 22.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 6/10/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 23.2 | 1.11 | 8.0 | 22.0 | 20.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 6/11/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 21.1 | 1.11 | 7.8 | 19.5 | 18.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 6/12/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 23.5 | 1.11 | 8.0 | 18.5 | 17.0 | waxing gibbous | 1 | 1 | 0 | 0 | 384 | 384 | -- |
| 6/13/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 23.3 | 1.10 | 8.0 | 25.0 | 19.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 6/14/2003 | *** DOWNSTREAM TRAP PULLED ON 6/13/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | |
| 6/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 6/16/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | |
| 6/17/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 24.7 | 1.04 | 5.9 | 21.0 | 20.5 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 6/18/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 21.9 | 1.04 | 5.8 | 18.5 | 18.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 6/19/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 24.8 | 1.03 | 5.7 | 22.0 | 19.0 | waning gibbous | 0 | 0 | 0 | 0 | | | |
| 6/19/2003 | *** PULLED ARROYO HONDO DOWNSTREAM TRAP FOR THE YEAR *** | | | | | | | | | | | | | | | | |
| 1/24/2003 | *** INITIAL INSTALLATION OF ARROYO HONDO TRAP FOR UPSTREAM MOVING FISH *** | | | | | | | | | | | | | | | | |
| 1/25/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | | 21.9 | 1.48 | 20.0 | 16.0 | 9.5 | last quarter | 0 | 0 | 0 | 0 | | | |
| 1/26/2003 | Norris, Dot | Arroyo Hondo | Upstream | | 21.2 | 1.78 | 24.0 | 12.0 | 9.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/27/2003 | Chenue, Scott | Arroyo Hondo | Upstream | | 24.1 | 1.50 | 19.0 | 13.5 | 9.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/28/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | | 24.4 | 1.45 | 18.0 | 12.0 | 9.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/29/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | | 22.7 | 1.38 | 17.0 | 14.0 | 8.5 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/30/2003 | Sak, Brian | Arroyo Hondo | Upstream | | 24.4 | 1.39 | 16.0 | 15.5 | 9.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 1/31/2003 | Norris, Dot | Arroyo Hondo | Upstream | | 22.9 | 1.39 | 15.0 | 14.0 | 9.0 | waning crescent | 0 | 0 | 0 | 0 | | | |
| 2/1/2003 | Sak, Brian | Arroyo Hondo | Upstream | | 23.6 | 1.34 | 15.0 | 12.0 | 9.0 | new | 0 | 0 | 0 | 0 | | | |
| 2/2/2003 | Sak, Brian | Arroyo Hondo | Upstream | | 24.2 | 1.40 | 15.0 | 13.5 | 10.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/3/2003 | Norris, Dot | Arroyo Hondo | Upstream | | 22.7 | 1.41 | 14.0 | 13.5 | 10.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/4/2003 | Bielski, Jason | Arroyo Hondo | Upstream | | 24.6 | 1.30 | 13.0 | 16.5 | 9.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/5/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | | 24.2 | 1.33 | 13.0 | 15.0 | 9.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/6/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | | 25.5 | 1.27 | 13.0 | 19.0 | 9.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/7/2003 | Sak, Brian | Arroyo Hondo | Upstream | | 28.5 | 1.25 | 12.0 | 14.5 | 9.5 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/8/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | | 21.9 | 1.25 | 12.0 | 15.0 | 9.0 | waxing crescent | 0 | 0 | 0 | 0 | | | |
| 2/9/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | | 23.2 | 1.24 | 12.0 | 14.0 | 9.0 | first quarter | 0 | 0 | 0 | 0 | | | |
| 2/10/2003 | Chenue, Scott | Arroyo Hondo | Upstream | | 22.6 | 1.22 | 12.0 | 15.0 | 8.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/11/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | | 25.2 | 1.22 | 12.0 | 14.0 | 8.5 | waxing gibbous | 1 | 1 | 0 | 0 | 480 | 480 | -- |
| 2/12/2003 | Kellogg, Mike | Arroyo Hondo | Upstream | | 20.7 | 1.25 | 12.0 | 12.5 | 9.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | |
| 2/13/2003 | Bielski, Jason | Arroyo Hondo | Upstream | | 29.2 | 1.38 | 16.0 | | | waxing gibbous | 1 | 1 | 0 | 0 | 490 | 490 | -- |

San Antonio Creek, Indian Creek and Arroyo Hondo

| Date | Permitted Biologist | Creek | Trap For Upstream or Downstream Moving Fish | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number of Fish | | | | All Trout | | | |
|-----------|---|--------------|--|--------------------------|------------------------|---------------|---------------------|-----------------------|-----------------|----------------------|--------|------|--------------|------------------|------|------|--|
| | | | | | | | | | | All Trout | Female | Male | Not Known | Fork Length (mm) | | | |
| | | | | | | | | | | | | | | Min. | Max. | Avg. | |
| 2/14/2003 | Bielski, Jason | Arroyo Hondo | Upstream | 20.6 | 1.40 | 18.0 | 13.0 | 9.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | | |
| 2/15/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | 23.0 | 1.33 | 15.0 | 13.5 | 10.0 | waxing gibbous | 1 | 1 | 0 | 0 | 485 | 485 | -- | |
| 2/16/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | 22.7 | 1.46 | 22.0 | 17.0 | 10.5 | full | 1 | 0 | 1 | 0 | 490 | 490 | -- | |
| 2/17/2003 | Bielski, Jason | Arroyo Hondo | Upstream | 22.7 | 1.66 | 29.0 | 12.0 | 9.5 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 2/18/2003 | Norris, Dot | Arroyo Hondo | Upstream | 22.8 | 1.48 | 20.0 | 12.0 | 9.5 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 2/19/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 21.7 | 1.42 | 17.0 | 9.0 | 9.5 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 2/20/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | 25.8 | 1.38 | 16.0 | 17.0 | 12.5 | waning gibbous | 1 | 1 | 0 | 0 | 503 | 503 | -- | |
| 2/21/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 23.6 | 1.32 | 15.0 | 17.0 | 10.5 | waning gibbous | 1 | 1 | 0 | 0 | 478 | 478 | -- | |
| 2/22/2003 | Bielski, Jason | Arroyo Hondo | Upstream | 22.3 | 1.28 | 13.0 | 18.0 | 10.0 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 2/23/2003 | Bielski, Jason | Arroyo Hondo | Upstream | 23.4 | 1.27 | 13.0 | 15.0 | 9.5 | waning gibbous | 3 | 3 | 0 | 0 | 495 | 500 | 497 | |
| 2/24/2003 | Chenue, Scott | Arroyo Hondo | Upstream | 22.2 | 1.25 | 13.0 | 14.0 | 10.5 | last quarter | 0 | 0 | 0 | 0 | | | | |
| 2/25/2003 | Sak, Brian | Arroyo Hondo | Upstream | 27.9 | 1.46 | 22.0 | 14.5 | 11.5 | waning crescent | 3 | 3 | 0 | 0 | 338 | 473 | 422 | |
| 2/26/2003 | Sak, Brian | Arroyo Hondo | Upstream | 23.8 | 1.72 | 34.0 | 10.0 | 10.0 | waning crescent | 0 | 0 | 0 | 0 | | | | |
| 2/27/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 21.2 | 1.64 | 29.0 | 14.0 | 10.5 | waning crescent | 0 | 0 | 0 | 0 | | | | |
| 2/28/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 23.3 | 1.66 | 30.0 | 14.0 | 10.5 | waning crescent | 1 | 1 | 0 | 0 | 480 | 480 | -- | |
| 3/1/2003 | Norris, Dot | Arroyo Hondo | Upstream | 22.7 | 1.58 | 24.0 | 14.5 | 11.5 | waning crescent | 1 | 1 | 0 | 0 | 488 | 488 | -- | |
| 3/2/2003 | Bielski, Jason | Arroyo Hondo | Upstream | 23.6 | 1.48 | 21.0 | 18.0 | 11.0 | waning crescent | 4 | 3 | 1 | 0 | 445 | 490 | 478 | |
| 3/3/2003 | Horvath, Mike | Arroyo Hondo | Upstream | 21.2 | 1.41 | 19.0 | 11.0 | 9.0 | new | 0 | 0 | 0 | 0 | | | | |
| 3/4/2003 | Foree, Sonya | Arroyo Hondo | Upstream | 23.7 | 1.40 | 18.0 | 13.0 | 8.5 | waxing crescent | 1 | 1 | 0 | 0 | 430 | 430 | -- | |
| 3/5/2003 | Horvath, Mike | Arroyo Hondo | Upstream | 21.2 | 1.38 | 16.0 | 21.0 | 12.0 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 3/6/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | 25.3 | 1.34 | 15.0 | 12.0 | 11.0 | waxing crescent | 1 | 1 | 0 | 0 | 512 | 512 | -- | |
| 3/7/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 21.8 | 1.31 | 14.0 | 14.5 | 12.0 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 3/8/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | 24.1 | 1.30 | 13.0 | 13.0 | 12.0 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 3/9/2003 | Sak, Brian | Arroyo Hondo | Upstream | 24.4 | 1.26 | 12.0 | 17.0 | 11.5 | waxing crescent | 2 | 2 | 0 | 0 | 428 | 468 | 448 | |
| 3/10/2003 | Horvath, Mike | Arroyo Hondo | Upstream | 22.5 | 1.26 | 12.0 | 18.5 | 13.0 | waxing crescent | 1 | 1 | 0 | 0 | 487 | 487 | -- | |
| 3/11/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | 22.8 | 1.24 | 12.0 | 23.0 | 12.0 | first quarter | 2 | 1 | 1 | 0 | 425 | 500 | 462 | |
| 3/12/2003 | Norris, Dot | Arroyo Hondo | Upstream | 21.1 | 1.23 | 11.0 | 17.5 | 12.0 | waxing gibbous | 1 | 1 | 0 | 0 | 512 | 512 | -- | |
| 3/13/2003 | Bielski, Jason | Arroyo Hondo | Upstream | 24.2 | | 11.0 | 16.5 | 11.0 | waxing gibbous | 2 | 2 | 0 | 0 | 445 | 468 | 456 | |
| 3/14/2003 | *** UPSTREAM TRAP PULLED ON 3/13/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | |
| 3/15/2003 | *** UPSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 3/16/2003 | *** UPSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 3/17/2003 | *** UPSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 3/18/2003 | *** UPSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | |
| 3/19/2003 | Sak, Brian | Arroyo Hondo | Upstream | 21.6 | 1.67 | 30.0 | 17.5 | 12.0 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 3/20/2003 | Horvath, Mike | Arroyo Hondo | Upstream | 22.9 | 1.60 | 26.0 | 14.5 | 11.5 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 3/21/2003 | Sak, Brian | Arroyo Hondo | Upstream | 24.4 | 1.55 | 24.0 | 18.0 | 13.5 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 3/22/2003 | Targgart, Laura | Arroyo Hondo | Upstream | 23.6 | 1.49 | 21.0 | 17.5 | 13.0 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 3/23/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 21.2 | 1.50 | 21.0 | 13.5 | 12.0 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 3/24/2003 | Chenue, Scott | Arroyo Hondo | Upstream | 26.8 | 1.47 | 20.0 | 15.5 | 13.5 | waning gibbous | 0 | 0 | 0 | 0 | | | | |
| 3/25/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 24.0 | 1.42 | 18.0 | 21.0 | 13.0 | last quarter | 0 | 0 | 0 | 0 | | | | |
| 3/26/2003 | Horvath, Mike | Arroyo Hondo | Upstream | 23.6 | 1.38 | 17.0 | 16.0 | 13.0 | waning crescent | 0 | 0 | 0 | 0 | | | | |
| 3/27/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | 22.0 | 1.38 | 16.0 | 15.0 | 13.5 | waning crescent | 0 | 0 | 0 | 0 | | | | |
| 3/28/2003 | Targgart, Laura | Arroyo Hondo | Upstream | 24.8 | 1.34 | 15.0 | 19.5 | 13.5 | waning crescent | 0 | 0 | 0 | 0 | | | | |
| 3/29/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 24.4 | 1.30 | 13.0 | 24.5 | 14.5 | waning crescent | 0 | 0 | 0 | 0 | | | | |
| 3/30/2003 | Chenue, Scott | Arroyo Hondo | Upstream | 23.2 | 1.28 | 13.0 | 24.5 | 15.5 | waning crescent | 1 | 1 | 0 | 0 | 464 | 464 | -- | |
| 3/31/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 23.0 | 1.26 | 12.0 | 24.5 | 15.0 | waning crescent | 0 | 0 | 0 | 0 | | | | |
| 4/1/2003 | Norris, Dot | Arroyo Hondo | Upstream | 19.3 | 1.26 | 12.0 | 12.0 | 12.0 | new | 0 | 0 | 0 | 0 | | | | |
| 4/2/2003 | Horvath, Mike | Arroyo Hondo | Upstream | 28.5 | 1.32 | 14.0 | 12.0 | 9.5 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 4/3/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | 23.2 | 1.40 | 17.0 | 15.0 | 13.0 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 4/4/2003 | Bielski, Jason | Arroyo Hondo | Upstream | 23.4 | 1.58 | 20.0 | 13.0 | 12.5 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 4/5/2003 | Stolz, Jennifer | Arroyo Hondo | Upstream | 24.6 | 1.70 | 28.0 | 14.0 | 13.0 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 4/6/2003 | Sak, Brian | Arroyo Hondo | Upstream | 23.1 | 1.56 | 21.0 | 14.0 | 11.5 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 4/7/2003 | Bielski, Jason | Arroyo Hondo | Upstream | 23.1 | 1.47 | 17.0 | 17.0 | 12.5 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 4/8/2003 | Foree, Sonya | Arroyo Hondo | Upstream | 23.7 | 1.16 | 15.0 | 18.0 | 14.0 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 4/9/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 24.6 | 1.30 | 14.0 | 21.0 | 15.5 | waxing crescent | 0 | 0 | 0 | 0 | | | | |
| 4/10/2003 | Horvath, Mike | Arroyo Hondo | Upstream | 22.7 | 1.31 | 13.0 | 17.0 | 14.0 | first quarter | 0 | 0 | 0 | 0 | | | | |
| 4/11/2003 | Horvath, Mike | Arroyo Hondo | Upstream | 23.6 | 1.31 | 13.0 | 17.5 | 14.5 | waxing gibbous | 0 | 0 | 0 | 0 | | | | |
| 4/12/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Upstream | 22.2 | 1.28 | 16.0 | 13.5 | 12.0 | waxing gibbous | 0 | 0 | 0 | 0 | | | | |
| 4/12/2003 | *** PULLED ARROYO HONDO UPSTREAM TRAP FOR THE YEAR *** | | | | | | | | | | | | | | | | |

Appendix B. Juvenile rainbow trout summary data.

| Date | Permitted Biologist | Creek | Trap | | | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number YOY | YOY Fork Length (mm) | | | Total Number Parr / Smolt | Parr / Smolt Fork Length (mm) | | |
|-----------|---|-------------|--|------------------|------|--------------------|------------------|------------|---------------|-----------------|-------------|------------------|----------------------|------|------|---------------------------|-------------------------------|------|--|
| | | | For Upstream or Downstream Moving Fish | Fork Length (mm) | Min. | | | | | | | | Max. | Avg. | Min. | | Max. | Avg. | |
| | | | | | | | | | | | | | | | | | | | |
| 3/4/2003 | *** INITIAL INSTALLATION OF SAN ANTONIO CREEK TRAP FOR DOWNSTREAM MOVING FISH *** | | | | | | | | | | | | | | | | | | |
| 3/5/2003 | Norris, Dot | San Antonio | Downstream | 18.2 | 1.05 | 1.0 | | | 16.6 | waxing crescent | 0 | | | | 0 | | | | |
| 3/6/2003 | Foree, Sonya | San Antonio | Downstream | 23.8 | 1.04 | 0.8 | | | 16.6 | waxing crescent | 0 | | | | 0 | | | | |
| 3/7/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | 23.5 | 1.04 | 0.8 | | | 16.6 | waxing crescent | 0 | | | | 0 | | | | |
| 3/8/2003 | Stolz, Jennifer | San Antonio | Downstream | 23.4 | 1.02 | 0.6 | | | 17.1 | waxing crescent | 0 | | | | 1 | 107 | 107 | -- | |
| 3/9/2003 | Sak, Brian | San Antonio | Downstream | 24.8 | 0.99 | 0.4 | | | 17.2 | waxing crescent | 0 | | | | 0 | | | | |
| 3/10/2003 | Horvath, Mike | San Antonio | Downstream | 21.9 | 0.99 | 0.4 | | | 17.7 | waxing crescent | 0 | | | | 0 | | | | |
| 3/11/2003 | Stolz, Jennifer | San Antonio | Downstream | 23.6 | 0.98 | 0.4 | | | 18.4 | first quarter | 0 | | | | 1 | 167 | 167 | -- | |
| 3/12/2003 | Norris, Dot | San Antonio | Downstream | 27.4 | 0.98 | 0.4 | | | 18.8 | waxing gibbous | 0 | | | | 0 | | | | |
| 3/13/2003 | Bielski, Jason | San Antonio | Downstream | 26.0 | 0.95 | 0.2 | | | 18.2 | waxing gibbous | 0 | | | | 0 | | | | |
| 3/14/2003 | Bielski, Jason | San Antonio | Downstream | 18.9 | 0.96 | 0.3 | | | 18.4 | waxing gibbous | 0 | | | | 1 | 156 | 156 | -- | |
| 3/15/2003 | Bielski, Jason | San Antonio | Downstream | 24.1 | 1.61 | > 5.0 | | | 17.9 | waxing gibbous | 0 | | | | 18 | 112 | 192 | 138 | |
| 3/16/2003 | *** PARTIAL BLOWOUT OF DOWNSTREAM TRAP ON 3/15/03 *** | | | | | | | | | | | | | | | | | | |
| 3/17/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | | | | |
| 3/18/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | 17.6 | 1.08 | 1.4 | | | 17.1 | full | 0 | | | | 3 | 109 | 177 | 132 | |
| 3/19/2003 | Stolz, Jennifer | San Antonio | Downstream | 23.1 | 1.08 | 1.4 | | | 17.4 | waning gibbous | 0 | | | | 0 | | | | |
| 3/20/2003 | Horvath, Mike | San Antonio | Downstream | 23.3 | 1.06 | 1.1 | | | 18.0 | waning gibbous | 0 | | | | 0 | | | | |
| 3/21/2003 | Sak, Brian | San Antonio | Downstream | 23.3 | 1.05 | 1.0 | | | 18.1 | waning gibbous | 0 | | | | 2 | 112 | 138 | 125 | |
| 3/22/2003 | Targgart, Laura | San Antonio | Downstream | 23.2 | 1.03 | 0.7 | | | 18.1 | waning gibbous | 0 | | | | 2 | 100 | 190 | 145 | |
| 3/23/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | 27.3 | 1.05 | 1.0 | | | 17.9 | waning gibbous | 0 | | | | 0 | | | | |
| 3/24/2003 | Chenue, Scott | San Antonio | Downstream | 20.8 | 1.03 | 0.7 | | | 17.9 | waning gibbous | 0 | | | | 0 | | | | |
| 3/25/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | 23.3 | 1.02 | 0.6 | | | 18.2 | last quarter | 0 | | | | 0 | | | | |
| 3/26/2003 | Bielski, Jason | San Antonio | Downstream | 24.1 | 1.02 | 0.6 | | | 18.6 | waning crescent | 0 | | | | 1 | 109 | 109 | -- | |
| 3/27/2003 | Stolz, Jennifer | San Antonio | Downstream | 22.5 | 1.00 | 0.5 | | | 18.3 | waning crescent | 1 | 49 | 49 | -- | 0 | | | | |
| 3/28/2003 | Targgart, Laura | San Antonio | Downstream | 23.5 | 1.00 | 0.5 | | | 18.5 | waning crescent | 0 | | | | 4 | 116 | 133 | 128 | |
| 3/29/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | 23.8 | 0.98 | 0.4 | | | 19.0 | waning crescent | 0 | | | | 0 | | | | |
| 3/30/2003 | Chenue, Scott | San Antonio | Downstream | 22.8 | 1.00 | 0.5 | | | 19.3 | waning crescent | 0 | | | | 0 | | | | |
| 3/31/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | 23.2 | 0.98 | 0.4 | | | 19.0 | waning crescent | 0 | | | | 2 | 157 | 159 | 158 | |
| 4/1/2003 | Norris, Dot | San Antonio | Downstream | 28.0 | 0.98 | 0.4 | | | 18.0 | new | 1 | 54 | 54 | -- | 1 | 130 | 130 | -- | |
| 4/2/2003 | Horvath, Mike | San Antonio | Downstream | 18.7 | 0.99 | 0.4 | | | 17.7 | waxing crescent | 0 | | | | 1 | 122 | 122 | -- | |
| 4/3/2003 | Stolz, Jennifer | San Antonio | Downstream | 23.4 | 1.00 | 0.5 | | | 18.0 | waxing crescent | 0 | | | | 0 | | | | |
| 4/4/2003 | Bielski, Jason | San Antonio | Downstream | 24.3 | 1.07 | 1.2 | | | 17.9 | waxing crescent | 0 | | | | 1 | 177 | 177 | -- | |
| 4/5/2003 | Stolz, Jennifer | San Antonio | Downstream | 23.5 | 1.08 | 1.4 | | | 17.6 | waxing crescent | 5 | 43 | 59 | 53 | 23 | 105 | 200 | 146 | |
| 4/6/2003 | Sak, Brian | San Antonio | Downstream | 22.1 | 1.02 | 0.6 | | | 17.8 | waxing crescent | 3 | 54 | 87 | 66 | 5 | 114 | 197 | 152 | |
| 4/7/2003 | Bielski, Jason | San Antonio | Downstream | 22.5 | 0.99 | 0.4 | | | 18.8 | waxing crescent | 0 | | | | 3 | 109 | 115 | 112 | |
| 4/8/2003 | Foree, Sonya | San Antonio | Downstream | 23.5 | 1.02 | 0.6 | | | 19.3 | waxing crescent | 1 | 55 | 55 | -- | 2 | 108 | 198 | 153 | |
| 4/9/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | 23.9 | 0.97 | 0.3 | | | 19.4 | waxing crescent | 0 | | | | 4 | 147 | 184 | 160 | |
| 4/10/2003 | Horvath, Mike | San Antonio | Downstream | 22.6 | 0.97 | 0.3 | | | 18.9 | first quarter | 0 | | | | 2 | 151 | 154 | 152 | |
| 4/11/2003 | Horvath, Mike | San Antonio | Downstream | 23.8 | 0.97 | 0.3 | | | 19.4 | waxing gibbous | 0 | | | | 0 | | | | |
| 4/12/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | 24.0 | 0.96 | 0.3 | | | 17.8 | waxing gibbous | 2 | 49 | 61 | 55 | 0 | | | | |
| 4/13/2003 | Bielski, Jason | San Antonio | Downstream | 27.7 | 2.40 | > 5.0 | | | 15.5 | waxing gibbous | 1 | 64 | 64 | -- | 10 | 110 | 196 | 153 | |
| 4/14/2003 | *** BLOWOUT OF DOWNSTREAM TRAP ON 4/13/03 *** | | | | | | | | | | | | | | | | | | |
| 4/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | | |
| 4/16/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | | |
| 4/17/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | | |
| 4/18/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | | |
| 4/19/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | | |
| 4/20/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | | |
| 4/21/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | | | | |
| 4/22/2003 | Kellogg, Mike | San Antonio | Downstream | | 1.18 | > 5.0 | | | 18.1 | waning gibbous | 0 | | | | 0 | | | | |
| 4/23/2003 | Targgart, Laura | San Antonio | Downstream | 23.0 | 1.14 | 3.1 | | | 18.2 | last quarter | 2 | 42 | 65 | 54 | 0 | | | | |
| 4/24/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | 20.3 | 1.22 | > 5.0 | | | 17.3 | waning crescent | 7 | 62 | 81 | 68 | 0 | | | | |
| 4/25/2003 | Horvath, Mike | San Antonio | Downstream | 22.5 | 1.30 | > 5.0 | | | 16.3 | waning crescent | 27 | 39 | 78 | 65 | 0 | | | | |
| 4/26/2003 | Horvath, Mike | San Antonio | Downstream | 23.4 | 1.61 | > 5.0 | | | 16.0 | waning crescent | 1 | 70 | 70 | -- | 0 | | | | |
| 4/27/2003 | Kellogg, Mike | San Antonio | Downstream | 22.6 | 1.36 | > 5.0 | | | 16.9 | waning crescent | 4 | 42 | 62 | 50 | 1 | 149 | 149 | -- | |
| 4/28/2003 | Sak, Brian | San Antonio | Downstream | 22.3 | 2.04 | > 5.0 | | | 15.8 | waning crescent | 5 | 60 | 72 | 66 | 0 | | | | |
| 4/29/2003 | *** BLOWOUT OF DOWNSTREAM TRAP ON 4/28/03 *** | | | | | | | | | | | | | | | | | | |
| 4/30/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | | | | |
| 5/1/2003 | Stolz, Jennifer | San Antonio | Downstream | 21.9 | 1.20 | > 5.0 | | | 17.5 | new | 1 | 72 | 72 | -- | 0 | | | | |
| 5/2/2003 | Targgart, Laura | San Antonio | Downstream | 24.7 | 1.18 | > 5.0 | | | 17.5 | waxing crescent | 4 | 76 | 84 | 78 | 2 | 126 | 150 | 138 | |
| 5/3/2003 | *** DOWNSTREAM TRAP PULLED ON 5/2/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | | | |
| 5/4/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | | |
| 5/5/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | | |
| 5/6/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | | | |
| 5/7/2003 | Bielski, Jason | San Antonio | Downstream | 21.8 | 1.24 | > 5.0 | | | 17.9 | waxing crescent | 25 | 46 | 80 | 59 | 1 | 175 | 175 | -- | |
| 5/8/2003 | Stolz, Jennifer | San Antonio | Downstream | 23.6 | 1.20 | > 5.0 | | | 17.6 | waxing crescent | 15 | 47 | 85 | 66 | 1 | 144 | 144 | -- | |
| 5/9/2003 | Kellogg, Mike | San Antonio | Downstream | 23.5 | 1.20 | > 5.0 | | | 18.0 | first quarter | 31 | 51 | 87 | 66 | 5 | 121 | 175 | 140 | |
| 5/10/2003 | Horvath, Mike | San Antonio | Downstream | 23.2 | | < 0.1 | | | 18.6 | waxing gibbous | 121 | 43 | 82 | 61 | 4 | 121 | 167 | 150 | |
| 5/11/2003 | Bielski, Jason | San Antonio | Downstream | 22.5 | 1.08 | 1.4 | | | 19.1 | waxing gibbous | 89 | 43 | 81 | 60 | 0 | | | | |
| 5/12/2003 | Targgart, Laura | San Antonio | Downstream | 25.7 | 1.06 | 1.1 | | | 19.8 | waxing gibbous | 85 | 43 | 92 | 58 | 1 | -- | -- | -- | |
| 5/13/2003 | Foree, Sonya | San Antonio | Downstream | 20.8 | 1.08 | 1.4 | | | 20.5 | waxing gibbous | 28 | 42 | 75 | 59 | 0 | | | | |
| 5/14/2003 | Stolz, Jennifer | San Antonio | Downstream | 25.9 | 1.04 | 0.8 | | | 20.2 | waxing gibbous | 19 | 50 | 72 | 60 | 1 | 122 | 122 | -- | |
| 5/15/2003 | Sak, Brian | San Antonio | Downstream | 20.7 | 1.04 | 0.8 | | | 19.9 | waxing gibbous | 42 | 47 | 76 | 59 | 0 | | | | |
| 5/16/2003 | Bielski, Jason | San Antonio | Downstream | 22.2 | 1.02 | 0.6 | | | 20.1 | full | 32 | 49 | 75 | 58 | 0 | | | | |
| 5/17/2003 | Foree, Sonya | San Antonio | Downstream | 22.2 | 1.02 | 0.6 | | | 20.6 | waning gibbous | 64 | 42 | 80 | 55 | 1 | 120 | 120 | -- | |
| 5/18/2003 | Sak, Brian | San Antonio | Downstream | 20.5 | 1.01 | 0.5 | | | 20.7 | waning gibbous | 8 | 44 | 71 | 58 | 2 | 172 | 175 | 174 | |
| 5/19/2003 | Kellogg, Mike | San Antonio | Downstream | 23.8 | 1.00 | 0.5 | | | 21.3 | waning gibbous | 48 | 48 | 85 | 58 | 0 | | | | |

San Antonio Creek, Indian Creek and Arroyo Hondo

| Date | Permitted Biologist | Creek | Trap | | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number | YOY | | | Total Number Parr / Smolt | Parr / Smolt | | |
|-----------|--|-------------|--|------------------|--------------------|------------------|------------|---------------|-----------------|-----------------|--------------|------|------|------|---------------------------|--------------|------|------|
| | | | For Upstream or Downstream Moving Fish | Fork Length (mm) | | | | | | | | Min. | Max. | Avg. | | Min. | Max. | Avg. |
| | | | | | | | | | | | | | | | | | | |
| 5/20/2003 | Norris, Dot | San Antonio | Downstream | | 21.9 | 1.01 | 0.5 | | 21.9 | waning gibbous | 57 | 33 | 79 | 57 | 0 | | | |
| 5/21/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 23.6 | 0.98 | 0.4 | | 22.4 | waning gibbous | 34 | 44 | 92 | 61 | 1 | -- | -- | -- |
| 5/22/2003 | *** DOWNSTREAM TRAP NOT FISHING - CLAMP LEFT ON, ON 5/21/03 *** | | | | | | | | | | | | | | | | | |
| 5/23/2003 | Kellogg, Mike | San Antonio | Downstream | | 23.5 | 0.98 | 0.4 | | 22.6 | last quarter | 30 | 37 | 88 | 59 | 1 | 120 | 120 | -- |
| 5/24/2003 | Horvath, Mike | San Antonio | Downstream | | 22.5 | 0.97 | 0.3 | | 21.8 | waning crescent | 21 | 39 | 65 | 55 | 0 | | | |
| 5/25/2003 | Norris, Dot | San Antonio | Downstream | | 23.3 | 0.98 | 0.4 | | 22.2 | waning crescent | 84 | 37 | 83 | 51 | 0 | | | |
| 5/26/2003 | Horvath, Mike | San Antonio | Downstream | | 24.3 | 0.97 | 0.3 | | 22.5 | waning crescent | 22 | 43 | 85 | 58 | 1 | 129 | 129 | -- |
| 5/27/2003 | *** FLOW NOT ENTERING DOWNSTREAM TRAP FUNNEL *** | | | | | | | | | | | | | | | | | |
| 5/28/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/29/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/30/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | | | |
| 5/31/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 28.0 | 0.95 | 0.2 | | 22.6 | new | 11 | 45 | 52 | 48 | 0 | | | |
| 6/1/2003 | Norris, Dot | San Antonio | Downstream | | 17.7 | 0.95 | 0.2 | | 23.2 | waxing crescent | 3 | 44 | 66 | 54 | 1 | 118 | 118 | -- |
| 6/2/2003 | Targgart, Laura | San Antonio | Downstream | | 25.6 | 0.95 | 0.2 | | 23.9 | waxing crescent | 1 | 46 | 46 | -- | 0 | | | |
| 6/3/2003 | Norris, Dot | San Antonio | Downstream | | 20.2 | 0.94 | 0.2 | | 23.7 | waxing crescent | 6 | 44 | 59 | 51 | 0 | | | |
| 6/4/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 21.8 | 0.94 | 0.2 | | 23.5 | waxing crescent | 7 | 45 | 52 | 48 | 0 | | | |
| 6/5/2003 | Bielski, Jason | San Antonio | Downstream | | 22.8 | 0.94 | 0.2 | | 23.3 | waxing crescent | 8 | 46 | 78 | 54 | 0 | | | |
| 6/6/2003 | Kellogg, Mike | San Antonio | Downstream | | 21.9 | 0.94 | 0.2 | | 23.2 | waxing crescent | 1 | 53 | 53 | -- | 0 | | | |
| 6/7/2003 | Brinkerhoff, Aaron | San Antonio | Downstream | | 24.0 | 0.94 | 0.2 | | 23.0 | waxing crescent | 1 | 46 | 46 | -- | 0 | | | |
| 6/8/2003 | Horvath, Mike | San Antonio | Downstream | | 22.0 | 0.93 | 0.2 | | 22.9 | first quarter | 1 | 45 | 45 | -- | 0 | | | |
| 6/9/2003 | *** PULLED SAN ANTONIO CREEK DOWNSTREAM TRAP FOR THE YEAR *** | | | | | | | | | | | | | | | | | |
| 3/3/2003 | *** INITIAL INSTALLATION OF INDIAN CREEK TRAP FOR DOWNSTREAM MOVING FISH *** | | | | | | | | | | | | | | | | | |
| 3/4/2003 | Stolz, Jennifer | Indian | Downstream | | 22.5 | 1.09 | 0.9 | 14.0 | 14.0 | waxing crescent | 0 | | | | 0 | | | |
| 3/5/2003 | Norris, Dot | Indian | Downstream | | 21.1 | 1.10 | 0.9 | 14.0 | 14.5 | waxing crescent | 0 | | | | 0 | | | |
| 3/6/2003 | Stolz, Jennifer | Indian | Downstream | | 22.3 | 1.08 | 0.8 | 18.5 | 12.5 | waxing crescent | 0 | | | | 1 | 142 | 142 | -- |
| 3/7/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 22.8 | 1.06 | 0.6 | 12.5 | 12.5 | waxing crescent | 0 | | | | 0 | | | |
| 3/8/2003 | Stolz, Jennifer | Indian | Downstream | | 24.3 | 1.04 | 0.5 | 14.0 | 13.0 | waxing crescent | 0 | | | | 0 | | | |
| 3/9/2003 | Sak, Brian | Indian | Downstream | | 24.4 | 1.04 | 0.5 | 16.5 | 15.5 | waxing crescent | 0 | | | | 1 | 109 | 109 | -- |
| 3/10/2003 | Horvath, Mike | Indian | Downstream | | 21.5 | 1.04 | 0.5 | 14.5 | 12.0 | waxing crescent | 0 | | | | 0 | | | |
| 3/11/2003 | Stolz, Jennifer | Indian | Downstream | | 23.2 | 1.03 | 0.4 | 17.5 | 12.5 | first quarter | 0 | | | | 1 | 132 | 132 | -- |
| 3/12/2003 | Norris, Dot | Indian | Downstream | | 28.0 | 1.03 | 0.4 | 22.0 | 20.0 | waxing gibbous | 0 | | | | 0 | | | |
| 3/13/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 25.1 | 1.02 | 0.4 | 15.5 | 15.5 | waxing gibbous | 0 | | | | 0 | | | |
| 3/14/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 19.1 | 1.04 | 0.5 | 25.5 | 17.0 | waxing gibbous | 0 | | | | 0 | | | |
| 3/15/2003 | Bielski, Jason | Indian | Downstream | | 26.2 | 1.35 | 2.5 | 20.0 | 15.0 | waxing gibbous | 0 | | | | 9 | 129 | 218 | 182 |
| 3/16/2003 | Horvath, Mike | Indian | Downstream | | 20.3 | 1.26 | 1.9 | 12.0 | 15.0 | waxing gibbous | 0 | | | | 23 | 111 | 171 | 141 |
| 3/17/2003 | Sak, Brian | Indian | Downstream | | 20.7 | 1.28 | 2.1 | 19.0 | 15.0 | waxing gibbous | 0 | | | | 7 | 102 | 153 | 130 |
| 3/18/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 22.4 | 1.18 | 1.4 | 17.0 | 14.5 | full | 0 | | | | 4 | 131 | 194 | 161 |
| 3/19/2003 | Stolz, Jennifer | Indian | Downstream | | 22.8 | 1.16 | 1.3 | 18.0 | 14.0 | waning gibbous | 0 | | | | 1 | 108 | 108 | -- |
| 3/20/2003 | Horvath, Mike | Indian | Downstream | | 23.7 | 1.16 | 1.3 | 14.5 | 14.5 | waning gibbous | 0 | | | | 0 | | | |
| 3/21/2003 | Sak, Brian | Indian | Downstream | | 23.9 | 1.16 | 1.3 | 15.0 | 15.5 | waning gibbous | 0 | | | | 1 | 119 | 119 | -- |
| 3/22/2003 | Targgart, Laura | Indian | Downstream | | 23.1 | 1.13 | 1.1 | 15.0 | 14.0 | waning gibbous | 0 | | | | 0 | | | |
| 3/23/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 26.8 | 1.14 | 1.2 | 16.0 | 16.0 | waning gibbous | 0 | | | | 0 | | | |
| 3/24/2003 | Chenu, Scott | Indian | Downstream | | 20.7 | 1.13 | 1.1 | 14.0 | 15.0 | waning gibbous | 0 | | | | 1 | 166 | 166 | -- |
| 3/25/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 23.4 | 1.10 | 0.9 | 19.0 | 16.5 | last quarter | 0 | | | | 2 | 138 | 140 | 139 |
| 3/26/2003 | Horvath, Mike | Indian | Downstream | | 23.6 | 1.11 | 1.0 | 17.0 | 15.5 | waning crescent | 0 | | | | 1 | 128 | 128 | -- |
| 3/27/2003 | Stolz, Jennifer | Indian | Downstream | | 23.3 | 1.11 | 1.0 | 19.0 | 14.5 | waning crescent | 0 | | | | 0 | | | |
| 3/28/2003 | Targgart, Laura | Indian | Downstream | | 23.8 | 1.11 | 1.0 | 15.0 | 14.0 | waning crescent | 0 | | | | 1 | 119 | 119 | -- |
| 3/29/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 23.7 | 1.10 | 0.9 | 22.0 | 18.0 | waning crescent | 0 | | | | 3 | 127 | 170 | 142 |
| 3/30/2003 | Chenu, Scott | Indian | Downstream | | 23.3 | 1.09 | 0.9 | 22.5 | 19.0 | waning crescent | 0 | | | | 0 | | | |
| 3/31/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 23.5 | 1.10 | 0.9 | 17.0 | 17.0 | waning crescent | 0 | | | | 1 | 144 | 144 | -- |
| 4/1/2003 | Norris, Dot | Indian | Downstream | | 26.1 | 1.07 | 0.7 | 12.0 | 14.0 | new | 0 | | | | 0 | | | |
| 4/2/2003 | Horvath, Mike | Indian | Downstream | | 20.9 | 1.10 | 0.9 | 15.0 | 14.5 | waxing crescent | 0 | | | | 0 | | | |
| 4/3/2003 | Stolz, Jennifer | Indian | Downstream | | 22.8 | 1.10 | 0.9 | 20.0 | 15.0 | waxing crescent | 0 | | | | 5 | 150 | 210 | 181 |
| 4/4/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 24.0 | 1.14 | 1.2 | 19.0 | 15.0 | waxing crescent | 0 | | | | 1 | 147 | 147 | -- |
| 4/5/2003 | Stolz, Jennifer | Indian | Downstream | | 24.7 | 1.11 | 1.0 | 17.0 | 15.0 | waxing crescent | 0 | | | | 5 | 130 | 178 | 153 |
| 4/6/2003 | Sak, Brian | Indian | Downstream | | 22.9 | 1.11 | 1.0 | 13.5 | 12.5 | waxing crescent | 0 | | | | 1 | 171 | 171 | -- |
| 4/7/2003 | Bielski, Jason | Indian | Downstream | | 22.4 | 1.13 | 1.1 | 15.0 | 13.5 | waxing crescent | 0 | | | | 0 | | | |
| 4/8/2003 | Foree, Sonya | Indian | Downstream | | 23.3 | 1.10 | 0.9 | 19.5 | 13.0 | waxing crescent | 0 | | | | 1 | 138 | 138 | -- |
| 4/9/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 23.8 | 1.08 | 0.8 | 15.5 | 15.5 | waxing crescent | 0 | | | | 0 | | | |
| 4/10/2003 | Horvath, Mike | Indian | Downstream | | 22.9 | 1.08 | 0.8 | 17.5 | 14.5 | first quarter | 0 | | | | 1 | 150 | 150 | -- |
| 4/11/2003 | Horvath, Mike | Indian | Downstream | | 23.4 | 1.04 | 0.5 | 13.5 | 14.0 | waxing gibbous | 0 | | | | 0 | | | |
| 4/12/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 23.8 | 1.07 | 0.7 | 16.0 | 14.0 | waxing gibbous | 0 | | | | 0 | | | |
| 4/13/2003 | Bielski, Jason | Indian | Downstream | | 23.8 | > 5.0 | 17.0 | 12.0 | 12.0 | waxing gibbous | 0 | | | | 2 | 182 | 190 | 186 |
| 4/14/2003 | *** BLOWOUT OF DOWNSTREAM TRAP ON 4/13/03 *** | | | | | | | | | | | | | | | | | |
| 4/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/16/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/17/2003 | *** DOWNSTREAM TRAP REPAIRED *** | | | | | | | | | | | | | | | | | |
| 4/18/2003 | Sak, Brian | Indian | Downstream | | 20.6 | 1.37 | 2.6 | 13.5 | 11.5 | waning gibbous | 3 | 24 | 27 | 25 | 1 | -- | -- | -- |
| 4/19/2003 | Norris, Dot | Indian | Downstream | | 22.3 | 1.32 | 2.3 | 15.0 | 11.0 | waning gibbous | 0 | | | | 1 | 134 | 134 | -- |
| 4/20/2003 | Chenu, Scott | Indian | Downstream | | 22.9 | 1.27 | 2.0 | 15.0 | 11.5 | waning gibbous | 3 | 27 | 54 | 43 | 0 | | | |
| 4/21/2003 | Bielski, Jason | Indian | Downstream | | 25.0 | 1.27 | 2.0 | 14.0 | 15.5 | waning gibbous | 0 | | | | 0 | | | |
| 4/22/2003 | Kellogg, Mike | Indian | Downstream | | 26.9 | 1.28 | 2.1 | 19.0 | 15.0 | waning gibbous | 0 | | | | 1 | 163 | 163 | -- |
| 4/23/2003 | Targgart, Laura | Indian | Downstream | | 19.7 | 1.22 | 1.7 | 19.5 | 14.5 | last quarter | 1 | 56 | 56 | -- | 0 | | | |
| 4/24/2003 | Kellogg, Mike | Indian | Downstream | | 22.3 | 1.33 | 2.3 | 12.0 | 12.0 | waning crescent | 4 | 24 | 50 | 31 | 0 | | | |
| 4/25/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 22.3 | 1.35 | 2.5 | 14.0 | 12.0 | waning crescent | 2 | 42 | 62 | 52 | 2 | 185 | 205 | 195 |
| 4/26/2003 | Targgart, Laura | Indian | Downstream | | 24.0 | 1.50 | 3.2 | 17.0 | 13.0 | waning crescent | 1 | 40 | 40 | -- | 0 | | | |
| 4/27/2003 | Kellogg, Mike | Indian | Downstream | | 22.7 | 1.53 | 3.4 | 19.0 | 14.0 | waning crescent | 5 | 26 | 58 | 46 | 0 | | | |
| 4/28/2003 | Sak, Brian | Indian | Downstream | | 21.9 | 1.60 | 3.7 | | | waning crescent | 13 | 26 | 66 | 42 | 1 | 157 | 157 | -- |
| 4/29/2003 | Bielski, Jason | Indian | Downstream | | 25.4 | 1.52 | 3.3 | 15.5 | 12.5 | waning crescent | 6 | 25 | 54 | 43 | 1 | 177 | 177 | -- |
| 4/30/2003 | Brinkerhoff, Aaron | Indian | Downstream | | 23.0 | 1.50 | 3.2 | 17.5 | 13.5 | waning crescent | 1 | 52 | 52 | -- | 1 | 131 | 131 | -- |

Fish Trapping Data Summary 2003

| Date | Permitted Biologist | Creek | Trap For Upstream or Downstream Moving Fish | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number YOY | YOY | | | Total Number Parr / Smolt | Parr / Smolt | | |
|-----------|--|--------------|--|--------------------------|------------------------|---------------|---------------------|-----------------------|-----------------|------------------------|------------------|------|------|------------------------------------|------------------|------|------|
| | | | | | | | | | | | Fork Length (mm) | | | | Fork Length (mm) | | |
| | | | | | | | | | | | Min. | Max. | Avg. | | Min. | Max. | Avg. |
| 5/1/2003 | Stolz, Jennifer | Indian | Downstream | 21.0 | 1.40 | 2.7 | 16.0 | 12.0 | new | 0 | | | | 0 | | | |
| 5/2/2003 | Targgart, Laura | Indian | Downstream | 22.9 | 1.36 | 2.5 | 16.5 | 13.0 | waxing crescent | 1 | 67 | 67 | -- | 0 | | | |
| 5/3/2003 | *** DOWNSTREAM TRAP PULLED ON 5/2/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | |
| 5/4/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/5/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 5/6/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | |
| 5/7/2003 | Bielski, Jason | Indian | Downstream | 21.1 | 1.58 | 3.6 | 14.0 | 12.0 | waxing crescent | 5 | 28 | 61 | 48 | 0 | | | |
| 5/8/2003 | Stolz, Jennifer | Indian | Downstream | 23.8 | 1.40 | 2.7 | 10.0 | 12.0 | waxing crescent | 9 | 54 | 60 | 57 | 1 | 166 | 166 | -- |
| 5/9/2003 | Kellogg, Mike | Indian | Downstream | 24.1 | 1.36 | 2.5 | 13.5 | 13.5 | first quarter | 17 | 42 | 67 | 58 | 1 | 163 | 163 | -- |
| 5/10/2003 | Horvath, Mike | Indian | Downstream | 23.3 | 1.30 | 2.2 | 19.0 | 13.5 | waxing gibbous | 26 | 47 | 64 | 58 | 3 | 165 | 172 | 169 |
| 5/11/2003 | Bielski, Jason | Indian | Downstream | 22.6 | 1.26 | 1.9 | 16.5 | 14.0 | waxing gibbous | 32 | 38 | 67 | 57 | 1 | 186 | 186 | -- |
| 5/12/2003 | Targgart, Laura | Indian | Downstream | 23.0 | 1.24 | 1.8 | 23.5 | 15.5 | waxing gibbous | 49 | 21 | 70 | 58 | 2 | 145 | 162 | 154 |
| 5/13/2003 | Foree, Sonya | Indian | Downstream | 23.6 | 1.20 | 1.6 | 20.0 | 17.5 | waxing gibbous | 34 | 49 | 65 | 55 | 6 | 128 | 160 | 145 |
| 5/14/2003 | Stolz, Jennifer | Indian | Downstream | 25.1 | 1.18 | 1.4 | 21.5 | 18.0 | waxing gibbous | 45 | 50 | 73 | 62 | 1 | 147 | 147 | -- |
| 5/15/2003 | Sak, Brian | Indian | Downstream | 22.0 | 1.17 | 1.4 | 23.0 | 16.0 | waxing gibbous | 49 | 28 | 79 | 63 | 2 | 138 | 168 | 153 |
| 5/16/2003 | Bielski, Jason | Indian | Downstream | 23.3 | 1.17 | 1.4 | 23.0 | 16.5 | full | 34 | 53 | 75 | 63 | 3 | 157 | 166 | 162 |
| 5/17/2003 | Foree, Sonya | Indian | Downstream | 24.7 | 1.14 | 1.2 | 17.0 | 21.0 | waning gibbous | 33 | 35 | 70 | 59 | 1 | 145 | 145 | -- |
| 5/18/2003 | Sak, Brian | Indian | Downstream | 20.2 | 1.15 | 1.3 | 20.5 | 15.5 | waning gibbous | 84 | 50 | 79 | 64 | 4 | 136 | 173 | 160 |
| 5/19/2003 | Kellogg, Mike | Indian | Downstream | 24.2 | 1.14 | 1.2 | 22.0 | 18.5 | waning gibbous | 88 | 42 | 79 | 61 | 2 | 145 | 170 | 158 |
| 5/20/2003 | Norris, Dot | Indian | Downstream | 21.2 | 1.12 | 1.1 | 24.5 | 17.0 | waning gibbous | 142 | 45 | 82 | 62 | 2 | 119 | 124 | 122 |
| 5/21/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.3 | 1.12 | 1.1 | 27.0 | 19.0 | waning gibbous | 152 | 46 | 85 | 64 | 3 | 135 | 175 | 150 |
| 5/22/2003 | Brinkerhoff, Aaron | Indian | Downstream | 21.6 | 1.12 | 1.1 | 19.0 | 17.0 | waning gibbous | 189 | 44 | 86 | 63 | 3 | 130 | 173 | 154 |
| 5/23/2003 | Kellogg, Mike | Indian | Downstream | 23.2 | 1.10 | 0.9 | 22.5 | 20.5 | last quarter | 159 | 36 | 92 | 60 | 5 | 121 | 149 | 135 |
| 5/24/2003 | Horvath, Mike | Indian | Downstream | 21.6 | 1.08 | 0.8 | 16.5 | 16.5 | waning crescent | 192 | 40 | 80 | 56 | 0 | | | |
| 5/25/2003 | Norris, Dot | Indian | Downstream | 23.3 | 1.10 | 0.9 | 19.0 | 17.0 | waning crescent | 273 | 39 | 92 | 55 | 1 | -- | -- | -- |
| 5/26/2003 | Horvath, Mike | Indian | Downstream | 22.7 | 1.05 | 0.6 | 21.0 | 20.5 | waning crescent | 108 | 36 | 78 | 52 | 1 | 146 | 146 | -- |
| 5/27/2003 | Norris, Dot | Indian | Downstream | 22.3 | 1.07 | 0.7 | 27.0 | 22.0 | waning crescent | 192 | 36 | 74 | 51 | 2 | 102 | 152 | 127 |
| 5/28/2003 | Brinkerhoff, Aaron | Indian | Downstream | 22.7 | 1.06 | 0.6 | 23.5 | 21.5 | waning crescent | 135 | 39 | 72 | 50 | 0 | | | |
| 5/29/2003 | Stolz, Jennifer | Indian | Downstream | 23.0 | 1.04 | 0.5 | 28.0 | 21.0 | waning crescent | 117 | 39 | 80 | 51 | 0 | | | |
| 5/30/2003 | Sak, Brian | Indian | Downstream | 23.0 | | | | | waning crescent | 248 | 37 | 77 | 48 | 0 | | | |
| 5/31/2003 | Brinkerhoff, Aaron | Indian | Downstream | 27.7 | 1.04 | 0.5 | 28.0 | 24.5 | new | 138 | 28 | 89 | 51 | 0 | | | |
| 6/1/2003 | Norris, Dot | Indian | Downstream | 18.3 | 1.01 | 0.3 | 26.5 | 19.5 | waxing crescent | 93 | 33 | 70 | 46 | 0 | | | |
| 6/2/2003 | Targgart, Laura | Indian | Downstream | 22.3 | 1.02 | 0.4 | 25.0 | 19.5 | waxing crescent | 156 | 32 | 83 | 50 | 0 | | | |
| 6/3/2003 | Norris, Dot | Indian | Downstream | 24.2 | 1.01 | 0.3 | 27.0 | 22.5 | waxing crescent | 82 | 36 | 61 | 48 | 0 | | | |
| 6/4/2003 | Brinkerhoff, Aaron | Indian | Downstream | 21.6 | 1.00 | 0.2 | 22.5 | 21.0 | waxing crescent | 77 | 33 | 62 | 43 | 0 | | | |
| 6/5/2003 | Bielski, Jason | Indian | Downstream | 23.8 | 1.00 | 0.2 | 26.0 | | waxing crescent | 46 | 32 | 62 | 47 | 0 | | | |
| 6/6/2003 | Kellogg, Mike | Indian | Downstream | 22.1 | 1.00 | 0.2 | 21.5 | 22.0 | waxing crescent | 15 | 39 | 53 | 46 | 0 | | | |
| 6/7/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.3 | 0.99 | 0.1 | 24.0 | 23.5 | waxing crescent | 102 | 31 | 72 | 49 | 0 | | | |
| 6/8/2003 | Horvath, Mike | Indian | Downstream | 21.3 | 0.98 | 0.1 | 17.5 | 17.5 | first quarter | 66 | 37 | 75 | 47 | 0 | | | |
| 6/9/2003 | Norris, Dot | Indian | Downstream | 23.1 | 0.99 | 0.1 | 21.0 | 19.0 | waxing gibbous | 52 | 38 | 65 | 48 | 0 | | | |
| 6/10/2003 | Bielski, Jason | Indian | Downstream | 22.7 | 1.00 | 0.2 | 18.0 | 21.5 | waxing gibbous | 19 | 36 | 67 | 47 | 0 | | | |
| 6/11/2003 | Brinkerhoff, Aaron | Indian | Downstream | 22.2 | 0.98 | 0.1 | 26.0 | 18.0 | waxing gibbous | 26 | 40 | 64 | 47 | 0 | | | |
| 6/12/2003 | Norris, Dot | Indian | Downstream | 22.7 | 0.97 | < 0.1 | 16.0 | 15.0 | waxing gibbous | 32 | 41 | 62 | 50 | 0 | | | |
| 6/13/2003 | Brinkerhoff, Aaron | Indian | Downstream | 23.5 | 0.98 | 0.1 | 15.0 | 15.5 | waxing gibbous | 23 | 44 | 56 | 51 | 0 | | | |
| 6/14/2003 | *** DOWNSTREAM TRAP PULLED ON 6/13/03 DUE TO LOW WATER *** | | | | | | | | | | | | | | | | |
| 6/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 6/16/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | |
| 6/17/2003 | Bielski, Jason | Indian | Downstream | 23.8 | 0.96 | < 0.1 | 15.5 | 18.5 | waning gibbous | 20 | 36 | 68 | 51 | 0 | | | |
| 6/18/2003 | Norris, Dot | Indian | Downstream | 22.7 | 0.94 | < 0.1 | 18.0 | 16.0 | waning gibbous | 2 | 47 | 48 | 48 | 0 | | | |
| 6/19/2003 | Norris, Dot | Indian | Downstream | 24.1 | 0.94 | < 0.1 | 23.5 | 17.5 | waning gibbous | 3 | 46 | 53 | 50 | 0 | | | |
| 6/19/2003 | *** PULLED INDIAN CREEK DOWNSTREAM TRAP FOR THE YEAR *** | | | | | | | | | | | | | | | | |
| 3/6/2003 | *** INITIAL INSTALLATION OF ARROYO HONDO TRAP FOR DOWNSTREAM MOVING FISH *** | | | | | | | | | | | | | | | | |
| 3/7/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 19.7 | 1.31 | 14.0 | 14.5 | 12.0 | waxing crescent | 3 | 23 | 24 | 24 | 0 | | | |
| 3/8/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | 24.2 | 1.30 | 13.0 | 13.0 | 12.0 | waxing crescent | 0 | | | | 0 | | | |
| 3/9/2003 | Sak, Brian | Arroyo Hondo | Downstream | 25.0 | 1.26 | 12.0 | 17.0 | 11.5 | waxing crescent | 15 | 21 | 30 | 23 | 0 | | | |
| 3/10/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 21.5 | 1.26 | 12.0 | 18.5 | 13.0 | waxing crescent | 25 | 20 | 25 | 23 | 0 | | | |
| 3/11/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | 22.9 | 1.24 | 12.0 | 23.0 | 12.0 | first quarter | 0 | | | | 0 | | | |
| 3/12/2003 | Norris, Dot | Arroyo Hondo | Downstream | 21.4 | 1.23 | 11.0 | 17.5 | 12.0 | waxing gibbous | 74 | 22 | 27 | 24 | 0 | | | |
| 3/13/2003 | Bielski, Jason | Arroyo Hondo | Downstream | 23.5 | | 11.0 | 16.5 | 11.0 | waxing gibbous | 1 | 25 | 25 | -- | 2 | 112 | 115 | 114 |
| 3/14/2003 | *** DOWNSTREAM TRAP PULLED ON 3/13/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | |
| 3/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 3/16/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 3/17/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | |
| 3/18/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | |
| 3/19/2003 | Sak, Brian | Arroyo Hondo | Downstream | 21.8 | 1.67 | 30.0 | 17.5 | 12.0 | waning gibbous | 0 | | | | 5 | 101 | 141 | 125 |
| 3/20/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 23.1 | 1.60 | 26.0 | 14.5 | 11.5 | waning gibbous | 0 | | | | 0 | | | |
| 3/21/2003 | Sak, Brian | Arroyo Hondo | Downstream | 23.9 | 1.55 | 24.0 | 18.0 | 13.5 | waning gibbous | 0 | | | | 0 | | | |
| 3/22/2003 | Targgart, Laura | Arroyo Hondo | Downstream | 23.0 | 1.49 | 21.0 | 17.5 | 13.0 | waning gibbous | 2 | 22 | 22 | 22 | 0 | | | |
| 3/23/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 19.4 | 1.50 | 21.0 | 13.5 | 12.0 | waning gibbous | 0 | | | | 1 | 132 | 132 | -- |
| 3/24/2003 | Chenue, Scott | Arroyo Hondo | Downstream | 27.1 | 1.47 | 20.0 | 15.5 | 13.5 | waning gibbous | 7 | 22 | 25 | 24 | 3 | 124 | 194 | 148 |
| 3/25/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 22.8 | 1.42 | 18.0 | 21.0 | 13.0 | last quarter | 6 | 24 | 35 | 27 | 1 | 169 | 169 | -- |
| 3/26/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 22.6 | 1.38 | 17.0 | 16.0 | 13.0 | waning crescent | 7 | 22 | 33 | 27 | 5 | 125 | 200 | 158 |
| 3/27/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | 22.4 | 1.38 | 16.0 | 15.0 | 13.5 | waning crescent | 7 | 29 | 38 | 33 | 2 | 133 | 146 | 140 |
| 3/28/2003 | Targgart, Laura | Arroyo Hondo | Downstream | 24.8 | 1.34 | 15.0 | 19.5 | 13.5 | waning crescent | 6 | 17 | 33 | 26 | 1 | 168 | 168 | -- |
| 3/29/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 24.4 | 1.30 | 13.0 | 24.5 | 14.5 | waning crescent | 0 | | | | 1 | 139 | 139 | -- |
| 3/30/2003 | Chenue, Scott | Arroyo Hondo | Downstream | 24.5 | 1.28 | 13.0 | 24.5 | 16.0 | waning crescent | 1 | 34 | 34 | -- | 7 | 133 | 203 | 163 |
| 3/31/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | 21.6 | 1.26 | 12.0 | 24.5 | 15.0 | waning crescent | 0 | | | | 3 | 135 | 165 | 149 |
| 4/1/2003 | Norris, Dot | Arroyo Hondo | Downstream | 19.4 | 1.26 | 12.0 | 12.0 | 12.0 | new | 24 | 21 | 39 | 25 | 4 | 164 | 179 | 170 |
| 4/2/2003 | Horvath, Mike | Arroyo Hondo | Downstream | 26.2 | 1.32 | 14.0 | 12.0 | 9.5 | waxing crescent | 29 | 21 | 39 | 27 | 0 | | | |
| 4/3/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | 23.3 | 1.40 | 17.0 | 15.0 | 13.0 | waxing crescent | 14 | 22 | 41 | 31 | 3 | 111 | 187 | 140 |

San Antonio Creek, Indian Creek and Arroyo Hondo

| Date | Permitted Biologist | Creek | Trap | | Fishing Time (hrs) | Creek Stage (ft) | Flow (cfs) | Air Temp (°C) | Water Temp (°C) | Lunar Cycle | Total Number YOY | YOY | | | Total Number Parr / Smolt | Parr / Smolt | | |
|-----------|--|--------------|--|------------------|--------------------|------------------|------------|---------------|-----------------|-----------------|------------------|------|------|------|---------------------------|--------------|------|------|
| | | | For Upstream or Downstream Moving Fish | Fork Length (mm) | | | | | | | | Min. | Max. | Avg. | | Min. | Max. | Avg. |
| | | | | | | | | | | | | | | | | | | |
| 4/4/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 21.3 | 1.58 | 20.0 | 13.0 | 12.5 | waxing crescent | 31 | 23 | 44 | 28 | 2 | 141 | 183 | 162 |
| 4/5/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | | 24.6 | 1.70 | 28.0 | 14.0 | 13.0 | waxing crescent | 8 | 23 | 40 | 29 | 3 | 120 | 175 | 147 |
| 4/6/2003 | *** DOWNSTREAM TRAP DAMAGED AND NOT FISHING - REPAIRED TODAY *** | | | | | | | | | | | | | | | | | |
| 4/7/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 21.2 | 1.47 | 17.0 | 17.0 | 12.5 | waxing crescent | 4 | 33 | 45 | 39 | 3 | 138 | 180 | 162 |
| 4/8/2003 | Foree, Sonya | Arroyo Hondo | Downstream | | 23.9 | 1.16 | 15.0 | 18.0 | 14.0 | waxing crescent | 13 | 22 | 48 | 35 | 6 | 132 | 190 | 162 |
| 4/9/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 22.3 | 1.30 | 14.0 | 21.0 | 15.5 | waxing crescent | 4 | 22 | 45 | 29 | 2 | 126 | 130 | 128 |
| 4/10/2003 | Horvath, Mike | Arroyo Hondo | Downstream | | 21.6 | 1.31 | 13.0 | 17.0 | 14.0 | first quarter | 1 | 50 | 50 | -- | 4 | 148 | 177 | 161 |
| 4/11/2003 | Horvath, Mike | Arroyo Hondo | Downstream | | 22.9 | 1.31 | 13.0 | 17.5 | 14.5 | waxing gibbous | 3 | 25 | 46 | 34 | 1 | 129 | 129 | -- |
| 4/12/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 21.8 | 1.28 | 16.0 | 13.5 | 12.0 | waxing gibbous | 3 | 23 | 53 | 42 | 2 | 175 | 204 | 190 |
| 4/13/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 22.0 | 3.10 | 184.0 | 13.0 | 11.0 | waxing gibbous | 13 | 32 | 50 | 43 | 16 | 115 | 202 | 179 |
| 4/14/2003 | *** DOWNSTREAM TRAP PULLED ON 4/13/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | | |
| 4/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/16/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/17/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/18/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | | |
| 4/19/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 21.1 | 1.70 | 45.0 | 22.0 | 14.0 | waning gibbous | 3 | 46 | 50 | 49 | 3 | 122 | 153 | 138 |
| 4/20/2003 | Chenue, Scott | Arroyo Hondo | Downstream | | 22.3 | 1.63 | 40.0 | 14.0 | 11.0 | waning gibbous | 4 | 36 | 56 | 48 | 1 | 198 | 198 | -- |
| 4/21/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 20.4 | 1.59 | 38.0 | 9.0 | 11.0 | waning gibbous | 0 | | | | 0 | | | |
| 4/22/2003 | Kellogg, Mike | Arroyo Hondo | Downstream | | 25.3 | 1.85 | 53.0 | 14.0 | 12.5 | waning gibbous | 41 | 22 | 61 | 35 | 2 | 132 | 145 | 138 |
| 4/23/2003 | Targgart, Laura | Arroyo Hondo | Downstream | | 19.8 | 1.85 | 52.0 | 9.5 | 10.5 | last quarter | 14 | 21 | 56 | 27 | 0 | | | |
| 4/24/2003 | *** DOWNSTREAM TRAP PULLED ON 4/23/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | | |
| 4/25/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/26/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/27/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/28/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/29/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 4/30/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/1/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/2/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/3/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/4/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/5/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/6/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/7/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/8/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/9/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/10/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/11/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/12/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 5/13/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | | |
| 5/14/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | | 20.3 | 1.68 | 40.0 | 14.0 | 14.0 | waxing gibbous | 15 | 25 | 76 | 64 | 3 | 172 | 200 | 191 |
| 5/15/2003 | Sak, Brian | Arroyo Hondo | Downstream | | 28.9 | 1.64 | 37.0 | 19.5 | 15.5 | waxing gibbous | 9 | 27 | 76 | 58 | 0 | | | |
| 5/16/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 22.2 | 1.58 | 34.0 | 21.0 | 16.0 | full | 11 | 53 | 73 | 63 | 1 | 185 | 185 | -- |
| 5/17/2003 | Foree, Sonya | Arroyo Hondo | Downstream | | 24.6 | 1.55 | 32.0 | 20.0 | 17.0 | waning gibbous | 17 | 52 | 95 | 67 | 1 | 210 | 210 | -- |
| 5/18/2003 | Sak, Brian | Arroyo Hondo | Downstream | | 19.2 | 1.50 | 27.0 | 19.0 | 16.5 | waning gibbous | 44 | 21 | 87 | 64 | 3 | 196 | 212 | 204 |
| 5/19/2003 | Kellogg, Mike | Arroyo Hondo | Downstream | | 21.8 | 1.42 | 26.0 | 31.5 | 18.0 | waning gibbous | 13 | 27 | 80 | 57 | 2 | 189 | 199 | 194 |
| 5/20/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 21.5 | 1.44 | 25.0 | 25.0 | 18.0 | waning gibbous | 42 | 21 | 89 | 61 | 3 | 161 | 218 | 196 |
| 5/21/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 24.3 | 1.41 | 23.0 | 23.0 | 20.0 | waning gibbous | 26 | 24 | 82 | 62 | 0 | | | |
| 5/22/2003 | Sak, Brian | Arroyo Hondo | Downstream | | 21.1 | 1.40 | 22.0 | 25.5 | 19.0 | waning gibbous | 35 | 26 | 82 | 61 | 1 | 175 | 175 | -- |
| 5/23/2003 | Kellogg, Mike | Arroyo Hondo | Downstream | | 23.9 | 1.36 | 20.0 | 27.0 | 20.0 | last quarter | 50 | 22 | 83 | 63 | 1 | 205 | 205 | -- |
| 5/24/2003 | Horvath, Mike | Arroyo Hondo | Downstream | | 20.7 | 1.35 | 19.0 | 22.0 | 19.0 | waning crescent | 64 | 25 | 92 | 63 | 0 | | | |
| 5/25/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 24.5 | 1.33 | 18.0 | 26.0 | 19.0 | waning crescent | 102 | 24 | 85 | 63 | 0 | | | |
| 5/26/2003 | Horvath, Mike | Arroyo Hondo | Downstream | | 20.7 | 1.31 | 17.0 | 26.5 | 20.0 | waning crescent | 63 | 47 | 92 | 66 | 1 | 165 | 165 | -- |
| 5/27/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 22.3 | 1.31 | 16.0 | 25.5 | 19.5 | waning crescent | 74 | 22 | 83 | 56 | 1 | 154 | 154 | -- |
| 5/28/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 22.3 | 1.26 | 15.0 | 23.0 | 22.0 | waning crescent | 119 | 23 | 90 | 62 | 0 | | | |
| 5/29/2003 | Stolz, Jennifer | Arroyo Hondo | Downstream | | 22.8 | 1.25 | 14.0 | 24.0 | 22.0 | waning crescent | 138 | 28 | 100 | 64 | 1 | 135 | 135 | -- |
| 5/30/2003 | Sak, Brian | Arroyo Hondo | Downstream | | 22.3 | 1.24 | 13.0 | | | waning crescent | 671 | 22 | 96 | 49 | 0 | | | |
| 5/31/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 17.5 | 1.25 | 13.0 | 17.5 | 16.0 | new | 281 | 23 | 100 | 67 | 2 | 102 | 102 | 102 |
| 6/1/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 25.3 | 1.21 | 12.0 | 32.0 | 21.0 | waxing crescent | 92 | 27 | 95 | 58 | 1 | 108 | 108 | -- |
| 6/2/2003 | Targgart, Laura | Arroyo Hondo | Downstream | | 24.3 | 1.20 | 11.0 | 31.0 | 20.5 | waxing crescent | 88 | 19 | 78 | 52 | 0 | | | |
| 6/3/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 23.1 | 1.16 | 10.0 | 32.0 | 21.0 | waxing crescent | 91 | 28 | 93 | 51 | 0 | | | |
| 6/4/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 20.9 | 1.16 | 9.8 | 29.0 | 20.0 | waxing crescent | 121 | 25 | 87 | 58 | 1 | 101 | 101 | -- |
| 6/5/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 24.7 | 1.15 | 9.6 | 26.0 | 23.0 | waxing crescent | 75 | 29 | 82 | 49 | 0 | | | |
| 6/6/2003 | Kellogg, Mike | Arroyo Hondo | Downstream | | 23.0 | 1.14 | 9.3 | 23.0 | 21.0 | waxing crescent | 141 | 29 | 86 | 49 | 0 | | | |
| 6/7/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 23.1 | 1.13 | 9.1 | 24.5 | 21.5 | waxing crescent | 94 | 26 | 76 | 52 | 0 | | | |
| 6/8/2003 | Horvath, Mike | Arroyo Hondo | Downstream | | 21.0 | 1.13 | 8.8 | 22.0 | 20.0 | first quarter | 67 | 24 | 74 | 49 | 0 | | | |
| 6/9/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 23.2 | 1.13 | 8.5 | 19.5 | 22.0 | waxing gibbous | 40 | 33 | 92 | 47 | 0 | | | |
| 6/10/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 23.2 | 1.11 | 8.0 | 22.0 | 20.5 | waxing gibbous | 31 | 32 | 81 | 46 | 0 | | | |
| 6/11/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 21.1 | 1.11 | 7.8 | 19.5 | 18.5 | waxing gibbous | 59 | 36 | 99 | 53 | 0 | | | |
| 6/12/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 23.5 | 1.11 | 8.0 | 18.5 | 17.0 | waxing gibbous | 59 | 29 | 92 | 56 | 0 | | | |
| 6/13/2003 | Brinkerhoff, Aaron | Arroyo Hondo | Downstream | | 23.3 | 1.10 | 8.0 | 25.0 | 19.0 | waxing gibbous | 40 | 29 | 84 | 56 | 2 | 101 | 107 | 104 |
| 6/14/2003 | *** DOWNSTREAM TRAP PULLED ON 6/13/03 FOR PREDICTED STORM *** | | | | | | | | | | | | | | | | | |
| 6/15/2003 | *** DOWNSTREAM TRAP NOT FISHING *** | | | | | | | | | | | | | | | | | |
| 6/16/2003 | *** DOWNSTREAM TRAP REINSTALLED *** | | | | | | | | | | | | | | | | | |
| 6/17/2003 | Bielski, Jason | Arroyo Hondo | Downstream | | 24.7 | 1.04 | 5.9 | 21.0 | 20.5 | waning gibbous | 25 | 31 | 66 | 50 | 3 | 102 | 160 | 123 |
| 6/18/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 21.9 | 1.04 | 5.8 | 18.5 | 18.0 | waning gibbous | 22 | 35 | 96 | 59 | 0 | | | |
| 6/19/2003 | Norris, Dot | Arroyo Hondo | Downstream | | 24.8 | 1.03 | 5.7 | 22.0 | 19.0 | waning gibbous | 24 | 37 | 97 | 61 | 0 | | | |
| 6/19/2003 | *** PULLED ARROYO HONDO DOWNSTREAM TRAP FOR THE YEAR *** | | | | | | | | | | | | | | | | | |