# Grand Canyon Long-term Non-native Fish Monitoring, 2008 Annual Report

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## EXECUTIVE SUMMARY

We present results of fish community monitoring in the Colorado River below Lees Ferry, AZ during 2008. We also describe modifications made to monitoring strategies and techniques which were implemented to improve long-term monitoring programs for native and non-native species. Objectives and subsequent findings are as follows:

***Objective 1:*** *Evaluate trends in salmonid and carp relative density and distribution from 2000 – 2008.*

Data collected during 2008 indicate the non-native fish community of the Colorado River has increased across all reaches of the river since 2006. The highest rainbow trout relative abundance was observed in reach 1 (Marble Canyon) and is similar to levels observed in 2001. Brown trout relative abundance was highest near the confluence of Bright Angel Creek in reach 3 and is similar to levels observed in 2005. Length frequency analysis of brown trout captured in 2008 indicated a relatively strong 2007 cohort. Common carp relative abundance increased in the Little Colorado River reach (reach 2) and in the lower reaches of the river. Warmer water releases from Glen Canyon Dam over recent years and the absence of the removal projects are most likely the contributing factors that led to the increase in rainbow and brown trout relative abundance. The warmer water releases from Glen Canyon Dam likely improved mainstem habitat for spawning of non-native fishes already in the system and for fish that may be displaced from the Little Colorado River.

***Objective 2:*** *Continue to investigate the potential of using electrofishing in the mainstem as a monitoring tool for native fish species, particularly flannelmouth suckers.*

Flannelmouth and bluehead sucker relative abundance has increased river-wide. This is likely a result of a decrease in predators and less competition for preferred habitats. Warmer water releases from Glen Canyon Dam over recent years are also a likely contributing factor to

this observed increase. The combination of these factors may have allowed flannelmouth and bluehead sucker to increase in abundance or move into habitat that our gear is move effective at sampling. These factors also likely contributed to the increase observed in humpback chub relative abundance in the Little Colorado River reach since 2003.

***Objective 3:*** *Evaluate the ability of the monitoring program to measure changes in non-native fish densities in the mechanical removal reach (Little Colorado River).*

The monitoring program for the Grand Canyon non-native fish community was designed to detect population changes on a river-wide scale. Thus, our confidence in localized-scale changes (e.g. LCR reach) is somewhat diminished. However, considering localized changes in a river-wide context increases our ability to suggest changes are accurate. If evaluating localized management actions is desired, such as a mechanical removal of non-native species in the LCR reach, more intensive sampling would be required than out current long-term monitoring would allocate.

***Objective 4:*** *Evaluate the impacts of the 2008 High Flow Experiment on rainbow trout throughout the Colorado River.*

The High-Flow Event had little if any impact on rainbow trout. The only change observed was a decrease in rainbow trout relative abundance between 100 and 200 mm TL between river miles 17.5 and 19.5 during post-HFE sampling. There was no evidence they came from Lees Ferry. These fish could have come from the 17.5 miles between Lees Ferry and our first sampling site but there is no evidence to support this.

# INTRODUCTION

Long-term monitoring of fish in the Colorado River below Glen Canyon Dam (GCD) is an essential component of the Glen Canyon Dam Adaptive Management Program. Long-term fish monitoring enables managers to ensure that GCD is being operated in a manner consistent with objectives specified in the Grand Canyon Protection Act of 1992 [Grand Canyon Monitoring and Research Center (GCMRC) 2001a]. It also characterizes a "baseline" or antecedent context in which response of biota to changing management policies or experiments can be interpreted (Walters and Holling 1990; Thomas 1996; Walters 1997).

Non-native salmonids, rainbow trout (*Oncorhynchus mykiss,* RBT) and brown trout (*Salmo trutta,* BNT) have displayed increased abundance in the Colorado River in Glen and Grand Canyons since the early 1990s. It is likely that this increase in abundance was caused by changes in the operation of GCD (GCMRC 2001a, McKinney *et al*. 1999, 2001). Many researchers have suggested that salmonids limit recruitment of native fishes in Grand Canyon through predation (Minckley 1991; Marsh and Douglas 1997; U.S. Department of Interior 2002). As a result of these findings, the GCMRC Protocol Evaluation Program advocated long-term monitoring of non-native fish species that pose risks of predation to Colorado River native fishes in Grand Canyon (GCMRC 2001b).

Working under cooperative agreement with GCMRC, Arizona Game and Fish Department (AGFD) developed sampling protocols for standardized annual monitoring of RBT, BNT, and common carp (*Cyprinus carpio*, CRP) in Grand Canyon (AGFD 2001; Speas *et al*. 2002). These methods have been used for monitoring non-native fishes downstream of Lee's Ferry since 2000. This report summarizes the results of non-native fish monitoring activities in

the mainstem Colorado River in Grand Canyon during 2008. Specific objectives during 2008 were to:

1. Evaluate trends in salmonid and carp relative density and distribution from 2000 – 2008.
2. Continue to investigate the potential of using electrofishing in the mainstem as a monitoring tool for native fish species, particularly flannelmouth suckers.
3. Evaluate the ability of the monitoring program to measure changes in non-native fish densities in the mechanical removal reach (Little Colorado River).
4. Evaluate the impacts of the 2008 High Flow Experiment rainbow trout throughout the Colorado River.

## METHODS

We collected electrofishing (EF) samples from February 5-24 and from March 27–April 16, 2008 between river mile (RM) 0 and RM 226 on the Colorado River in Grand Canyon. Daily river discharge at GCD ranged from 7,300 to 13,800 cubic feet per second (cfs) during both river trips. All data were collected at night with two 16´ Achilles inflatable sport boats outfitted for electrofishing with a Coeffelt CPS unit, with two netters and one driver per boat. On average these boats applied 350 volts and 15 amps to a spherical steel anode. Two experienced electrofishing boatmen piloted the boats on both trips. Sampling was conducted for an average of 5 hours per night beginning at about 7 pm. We were unable to sample on one night during each trip because of rain and high winds (Tables 1 & 2).

We used the sample power program Sampling.exe (Walters, unpublished) to determine appropriate sample sizes and distribution of effort for RBT, BNT, and CRP effort was scaled by the number of linear river miles per reach. Using variance estimates (coefficient of variation,

CV) from existing Grand Canyon fisheries data (2000–2004), we used Sampling.exe to estimate sample precision of catch per unit effort (CPUE; fish per hour) as a function of sample size and spatial stratification. The program utilizes a Monte Carlo procedure to estimate the probability of detecting a true temporal population trend given a range of sample sizes. We selected the design in the present study based on its projected level of sampling precision, CV $\leq$ 0.10, whereby the power to detect a 21% decrease and 26% increase in CPUE is 0.80 over a five–year period (Gerrodette 1987).

We used single-pass electrofishing to estimate mean relative density (CPUE) and longitudinal distribution of salmonids and carp in Grand Canyon. Each sample consisted of a single electrofishing pass, approximately 300 seconds in duration, along shoreline transects. The sample universe (RM 0-226) consisted of 5 reaches (Table 3; Walters, unpublished). Each reach was then divided into fishable sub-reaches. Fishable (i.e., where electrofishing was possible) sub-reaches were defined by campsite availability and location of impassable navigational hazards such as rapids. Fishable sub-reaches were randomly selected within reaches. The number of fishable sub-reaches sampled was determined with Sampling.exe, within a given reach. Start miles on river left and right were randomly generated within fishable sub-reaches. With few exceptions, shoreline transects were contiguous. Transect start and stop coordinates were recorded with a Garmin III GPS and river miles were estimated from a Colorado River map and recorded (Martin and Whitis 2004).

We recorded maximum total length (TL mm) and weight (grams) of every captured fish. Brown trout greater than 149 mm TL were implanted with passive integrated transponder (PIT) tags and received an adipose fin clip. Common carp received an individually number Floy tag and a dorsal spine clip. The adipose and dorsal clips were used as a secondary mark to evaluate

tag loss. We recorded TL, fork length, and weights (when environmental conditions were favorable) of all native fish. We implanted native fish greater than 149 mm TL with PIT tags if none were found on capture according to standard protocols for handling fish in Grand Canyon (Ward 2002). All PIT tag numbers were recorded on data sheets and also stored electronically.

## RESULTS

*Long term monitoring*

In February of 2008 (trip GC20080205), we completed 628 transects averaging 313 seconds each over 20 nights between Lees Ferry and Diamond Creek. We captured a total of 1495 fish comprising 11 species (Table 1). Prolonged and heavy rain prevented sampling on February 22, 2008. In March and April of 2008 (trip GC20080327), we completed 652 transects averaging 311 seconds each over 21 nights between Lees Ferry and Diamond Creek. We captured a total of 2423 fish comprising 12 species (Table 2). Extreme wind prohibited sampling on March 30, 2008. Long-term analysis (2000-2008) of trends includes only data taken from the Post-HFE trip (trip 2, spring). Sampling was conducted between river miles 0-226 and broken down in to 5 reaches (Table 3).

**Rainbow trout**

Mean CPUE of RBT showed a declining trend from 2000 to 2006 with the highest RBT densities in Marble Canyon (reach 1). Rainbow trout mean CPUE increased in all reaches between 2007 and 2008. Densities for RBT in 2008 were similar to those observed in 2001 for reach 1 and similar to those seen in 2003 for reach 2 (Figure 1). Rainbow trout histograms from 2000-2008 show a bimodal distribution around 150 mm and 300 mm TL (Figure 2).

**Brown trout**

Mean CPUE of BNT showed a declining trend from 2000 to 2006 with the highest BNT densities near Bright Angel Creek (BAC, reach 3). Brown trout mean CPUE increased in all reaches except reach 1 between 2007 and 2008. Densities for BNT in 2008 around BAC were similar to those observed in 2004 (Figure 3). Brown trout length frequency analysis suggested a relatively strong 2007 cohort was captured in 2008, with roughly 40% of the BNT captured being less than 150 mm TL (Figure 4).

**Common carp**

Mean CPUE of CRP showed a declining trend from 2000 to 2006 with densities of CRP being highest downriver of BAC (reaches 4 and 5). Common carp mean CPUE increased from 2007 to 2008 in all reaches except reach 1 and 3 and was similar to that observed in 2003 for reach 2 (Figure 5). Length frequency analyses for common carp from 2000-2008 show that the majority of the CRP captured were over 300 mm TL (Figure 6).

**Flannelmouth sucker**

Flannelmouth sucker mean CPUE showed an increase in all reaches except reach 1 and 3 since 2000. Mean CPUE of FMS in 2008 was similar to those observed in 2007 across all reaches (Figure 7). Length frequency analysis from 2003 to 2008 indicated FMS recruitment to adulthood is occurring while data from previous years (i.e. 2000-2002) suggested recruitment was low (Figure 8).

**Bluehead sucker**

Bluehead sucker mean CPUE showed an increase in all reaches except reach 1 since 2000. Mean CPUE for BHS in 2008 remained similar to those observed in 2007 with the exception of reach 5, where BHS mean CPUE increased significantly in 2008 (Figure 9). Length

frequency analysis prior to 2004 suggested this sampling program was not best suited for capturing BHS. However, since 2004 this analysis indicates recruitment to adulthood is occurring (Figure 10).

**Humpback chub**

Our long term electrofishing monitoring program is somewhat limited in describing population dynamics of humpback chub relative to other programs (i.e. lower 1200 m monitoring, U.S. Fish and Wildlife Service hoop net monitoring in the Little Colorado River). However, HBC mean CPUE has shown an increasing trend since 2001 in reach 2 (LCR reach; Figure 11). Too few HBC were captured since 2000 to compete length frequency analyses.

*Non-native fish removal reach*

Mean CPUE of non-native fish species in the LCR reach (reach 2) have increased since 2006, particularly rainbow trout. Mean rainbow trout CPUE was similar to that observed in 2003 when the non-native fish removals began. Similarly, common carp mean CPUE increased in 2008 and was the highest observed in this reach since 2000. Brown trout mean CPUE remains low around the LCR but increased from 2007 to 2008 (Figure 12, top panel). Mean CPUE of native fish species (i.e. FMS and BHS) have increased since 2004, particularly flannelmouth suckers (Figure 12, bottom panel).

*2008 High Flow Experiment*

The High Flow Experiment (HFE) designed to redeposit sediment along the shorelines of the Colorado River was conducted between March 5 and March 8, 2008. Discharges for the HFE began with an upramp from 13,100 to 36,000 cfs. Daily average discharge for the HFE was maintained at about 41,800 cfs until the experiment concluded. Fewer samples were taken between Lees Ferry and Diamond Creek during trip 1 (pre-HFE) of 2008 than during trip 2 (post-

HFE) due to weather. However, proportional effort by fish reach was similar (Tables 1 and 2). Turbidity was lower during post-HFE sampling than during pre-HFE sampling because the Little Colorado River (LCR) was flooding during pre-HFE sampling and the Colorado River downriver of its confluence with the Little Colorado River was highly turbid (Figure 13).

The total number of fish captured per repeated reach was higher in most of the reaches downriver of the confluence of the LCR and Colorado River during post-HFE sampling (Figure 14). This change in catch is likely due in part to the lower turbidity seen below the LCR during post-HFE sampling. Paired analysis for this report are done only for rainbow trout upriver of the LCR because all inferences on catch rates downriver of the LCR are confounded by changes in turbidity and likely changes in capture probabilities.

Mean RBT CPUE from reach 1 in 2008 was not significantly different between pre and post sampling (Figure 15). However, length histograms for this species show evidence of increased abundance in reach 1 between 100 and 200 mm TL (2007 cohort) during post-HFE sampling (Figure 16). There is no evidence of a change in abundance of rainbow trout between 100 and 200 mm for the Lees Ferry (LF) reach or the LCR reach (Reach 2, Figure 17). The apparent increase in abundance in reach 1 was only observed for samples taken between river miles 17.5 and 19.5 (Figure 18).

## DISCUSSION

Data collected during 2008 monitoring suggests salmonid relative abundance has increased river wide in recent years. Rainbow trout relative abundance throughout all reaches of this study was similar to those observed in 2003. Comparatively, rainbow trout relative abundance in Marble Canyon was higher in 2008 than that observed in the Lees Ferry reach

(Makinster et al. 2009), suggesting mainstem spawning and recruitment may occur below the sport fishery. Length frequency analysis showed that our sampling is ineffective at detecting young of year rainbow trout due to our sampling occurring in the spring, with the exception of 2007 where a trip was conducted in the fall and young of year rainbow trout were observed. Brown trout relative abundance has also increased since 2006, particularly in areas around Bright Angel Creek. Length frequency analysis for brown trout in 2008 showed a relatively strong 2007 cohort, suggesting a successful spawn occurred in Bright Angel Creek during the fall of 2007. With the increase in mainstem water temperatures and the absence of the mechanical removal and weir removal projects it is difficult to separate out which event is responsible for the increasing trend in relative abundance for rainbow trout and brown trout. Common carp relative abundance has also increased in recent years in the Little Colorado River reach and reaches further downstream. This could be an effect of recent (i.e. 2003-2005) warmer water releases from Glen Canyon Dam providing more suitable spawning conditions in the main channel or perhaps increased spawning activity in the Little Colorado River. Length frequency analysis suggests that our sampling methods are ineffective at picking up all life stages of common carp.

Flannelmouth and bluehead sucker have shown a river wide increase in relative abundance. This is likely due to a combination of past mechanical removals decreasing the number of predators and competition for preferred habitats as well as warmer mainstem water temperatures. These factors may have allowed flannelmouth and bluehead sucker abundances to increase or move into habitats that our gear is more effective at sampling. Humpback chub relative abundance has increased in the Little Colorado River reach since 2003 although mainstem electrofishing does not appear to be an effective capture technique for this species.

However, this increase is likely attributable to the same factors mentioned for other native species.

The sampling design used for long term monitoring since 2002 was established to detect river-wide population trends for large bodied non-native fishes. This sampling design (N > 800) appears to be adequate for monitoring of salmonid and carp populations in the Grand Canyon as well as for monitoring flannelmouth sucker. The number of samples taken in 2000 (N= 413) and 2001 (N= 234) were inadequate to capture the status and trends of the non-native fish in question. Bootstrapping indicated that changes in salmonid relative abundance of 20%–30% and 30%–40% for rainbow trout and brown trout, respectively, are detectable between consecutive years with the current stratified random sample design, provided we complete 800–900 samples per year (Rogers and Makinster 2003). The sampling design used in recent years appears to be working well, and the level of effort appears to be appropriate for monitoring of rainbow trout, brown trout, common carp, and flannelmouth sucker in the Colorado River, Grand Canyon.

Evaluating localized management actions, such as a mechanical removal of non-native species in the LCR reach, requires more intensive sampling than long-term monitoring would allocate. The extensive sampling in the Little Colorado River and Bright Angel Creek reaches from 2003 - 2006 (during the mechanical removal years and years when the weir was operational, respectively) is indicative of the effort that is necessary to detect impacts of such management actions on a localized scale. However, reduced densities of salmonid species in the Little Colorado River reach and corresponding lower relative abundance will reduce the ability to detect change in this reach with our long term monitoring sampling design. Nevertheless, rainbow trout, brown trout, and common carp relative abundance in the Little Colorado River reach is similar to that observed in the early years of the mechanical removal. Likely

explanations for these observations is mainstem spawning upstream of the reach and subsequent immigration (rainbow trout), upstream movement and immigration from the lower reaches (brown trout), and spawning activity in the Little Colorado River (common carp). These species also may have benefited from the warmer water temperature during recent years

The 2008 High-Flow Event appeared to have little overall affect on the movement/displacement of rainbow trout downstream. The only observed increase occurred in reach 1 between river miles 17.5 and 19.5 for rainbow trout between 100 and 200 mm TL. This change was not observed for rainbow trout of similar sizes in the Lees Ferry reach or the Little Colorado River reach. However, there is 17.5 miles between Lees Ferry and the first site that was sampled. These fish could have immigrated from those 17.5 miles but we have no evidence to support or refute that assumption.

It is critical that monitoring programs remain constant over time. If monitoring designs are compromised to answer short-term questions, the effectiveness of the monitoring program may be lost. Localized questions or questions on a time scale shorter than 5 years will require additional, separate effort beyond that outlined for long-term monitoring. Consistent, long-term monitoring will be essential to the success of the adaptive management program by allowing the effects of management actions to be measured.

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**Table 1.** Sampling date (Date), number of runs (# Runs), start river mile (Start RM),end river mile (End RM), fish reach (Reach, see appendix 2 for reach designations), average seconds (Ave Sec), turbidity (Turb), and species captured (see appendix 1 for species codes) on AGFD Trip GC200080205 (February 2008).

| Trip GC20080205 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date** | **# Runs** | **Start RM** | **End RM** | **Reach** | **Avg Sec** | **Turb** | **BBH** | **BHS** | **BNT** | **CCF** | **CRP** | **FHM** | **FMS** | **GZD** | **HBC** | **RBT** | **SPD** |
| 2/5/2008 | 36 | 17.7 | 19.6 | 1 | 316.9 | L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 285 | 0 |
| 2/6/2008 | 36 | 32.9 | 35.5 | 2 | 317.9 | L | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 357 | 0 |
| 2/7/2008 | 30 | 56.5 | 58.9 | 3 | 314.4 | L | 0 | 9 | 0 | 0 | 1 | 0 | 24 | 0 | 0 | 148 | 2 |
| 2/8/2008 | 30 | 61 | 63.6 | 3 | 318.7 | L | 1 | 3 | 1 | 1 | 55 | 5 | 44 | 0 | 12 | 15 | 6 |
| 2/9/2008 | 30 | 65.5 | 67.8 | 3 | 328.5 | H | 0 | 13 | 0 | 0 | 7 | 13 | 24 | 0 | 0 | 8 | 0 |
| 2/10/2008 | 36 | 69.3 | 72.7 | 4 | 317 | H | 0 | 26 | 1 | 0 | 4 | 2 | 9 | 0 | 0 | 14 | 3 |
| 2/11/2008 | 32 | 79.6 | 81.2 | 5 | 307.9 | H | 0 | 1 | 9 | 0 | 0 | 0 | 3 | 0 | 0 | 9 | 0 |
| 2/12/2008 | 32 | 82.5 | 84.2 | 5 | 310.1 | H | 0 | 0 | 9 | 0 | 1 | 0 | 1 | 0 | 0 | 9 | 0 |
| 2/13/2008 | 32 | 86.5 | 88.1 | 5 | 308.3 | H | 0 | 0 | 9 | 0 | 1 | 0 | 3 | 0 | 0 | 17 | 0 |
| 2/14/2008 | 32 | 91.2 | 92.9 | 5 | 314.9 | H | 0 | 0 | 14 | 0 | 9 | 0 | 1 | 0 | 0 | 31 | 0 |
| 2/15/2008 | 36 | 113.8 | 115.6 | 6 | 308.8 | H | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 11 | 0 |
| 2/16/2008 | 36 | 119 | 121 | 6 | 323.5 | H | 0 | 1 | 0 | 0 | 3 | 0 | 22 | 0 | 0 | 7 | 1 |
| 2/17/2008 | 36 | 134.9 | 137.5 | 7 | 323.8 | H | 0 | 0 | 1 | 0 | 4 | 0 | 8 | 0 | 0 | 47 | 0 |
| 2/18/2008 | 36 | 145.5 | 147.5 | 7 | 309.5 | H | 0 | 1 | 0 | 0 | 4 | 0 | 12 | 0 | 0 | 15 | 1 |
| 2/19/2008 | 36 | 174.4 | 177.4 | 8 | 307.9 | H | 0 | 2 | 2 | 0 | 4 | 0 | 35 | 0 | 0 | 7 | 4 |
| 2/20/2008 | 34 | 181 | 183.6 | 9 | 310.3 | H | 0 | 3 | 0 | 0 | 7 | 2 | 23 | 1 | 0 | 1 | 6 |
| 2/21/2008 | 34 | 190.2 | 193.2 | 9 | 305.1 | H | 0 | 0 | 0 | 0 | 4 | 0 | 8 | 0 | 0 | 1 | 6 |
| 2/22/2008 | Rain | | | | | H | | | | | | | | | | | |
| 2/23/2008 | 24 | 213.2 | 215.1 | 10 | 303 | H | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2/24/2008 | 30 | 221.1 | 224.5 | 11 | 304.5 | H | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 |
| **Totals** | | | | | | | **1** | **60** | **46** | **1** | **112** | **22** | **228** | **1** | **12** | **982** | **30** |

**Table 2.** Sampling date (Date), number of runs (# Runs), start river mile (Start RM),end river mile (End RM), fish reach (Reach, see appendix 2 for reach designations), average seconds (Ave Sec), turbidity (Turb), and species captured (see appendix 1 for species codes) on AGFD Trip GC20080327 (March and April 2008).

| Trip GC20080327 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date** | **# Runs** | **Start RM** | **End RM** | **Reach** | **Avg Sec** | **Turb** | **BBH** | **BHS** | **BNT** | **CCF** | **CRP** | **FHM** | **FMS** | **HBC** | **PKF** | **RBT** | **RSH** | **SPD** |
| 3/27/2008 | 36 | 17.7 | 19.7 | 1 | 317.3 | L | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 449 | 0 | 0 |
| 3/28/2008 | 36 | 32.9 | 35.4 | 2 | 322.4 | L | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 334 | 0 | 0 |
| 3/29/2008 | 30 | 56.6 | 58.9 | 3 | 315.7 | L | 0 | 5 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 172 | 0 | 0 |
| 3/30/2008 | Blown out | | | | | L | | | | | | | | | | | | |
| 3/31/2008 | 30 | 61 | 63.9 | 3 | 309.2 | L | 1 | 27 | 1 | 0 | 4 | 4 | 28 | 5 | 0 | 13 | 0 | 2 |
| 4/1/2008 | 30 | 65.4 | 67.7 | 3 | 307 | H | 1 | 6 | 0 | 0 | 3 | 2 | 6 | 0 | 0 | 3 | 1 | 0 |
| 4/2/2008 | 36 | 69.3 | 72.6 | 4 | 311.3 | H | 0 | 18 | 0 | 0 | 2 | 6 | 5 | 0 | 0 | 12 | 0 | 2 |
| 4/3/2008 | 32 | 79.6 | 81.2 | 5 | 303.8 | H | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 8 | 0 | 2 |
| 4/4/2008 | 32 | 82.6 | 84.5 | 5 | 307.3 | H | 0 | 0 | 19 | 0 | 1 | 0 | 2 | 0 | 0 | 12 | 0 | 0 |
| 4/5/2008 | 32 | 86.5 | 88.1 | 5 | 320.2 | H | 0 | 0 | 65 | 0 | 2 | 0 | 3 | 0 | 0 | 31 | 0 | 0 |
| 4/6/2008 | 32 | 91.2 | 92.9 | 5 | 314.2 | H | 0 | 2 | 88 | 0 | 5 | 0 | 4 | 0 | 0 | 76 | 0 | 0 |
| 4/7/2008 | 36 | 113.8 | 115.6 | 6 | 307.8 | H | 0 | 4 | 9 | 0 | 8 | 0 | 21 | 0 | 0 | 22 | 0 | 1 |
| 4/8/2008 | 36 | 119 | 120.9 | 6 | 311 | H | 0 | 9 | 10 | 0 | 12 | 2 | 67 | 0 | 0 | 28 | 0 | 1 |
| 4/9/2008 | 36 | 134.9 | 137.4 | 7 | 312.9 | H | 0 | 4 | 2 | 0 | 6 | 0 | 20 | 0 | 0 | 71 | 0 | 3 |
| 4/10/2008 | 36 | 145.5 | 147.3 | 7 | 307.4 | H | 0 | 11 | 1 | 0 | 5 | 0 | 36 | 0 | 0 | 28 | 0 | 12 |
| 4/11/2008 | 36 | 174.3 | 177 | 8 | 307.8 | H | 0 | 17 | 1 | 0 | 6 | 1 | 78 | 0 | 0 | 11 | 0 | 56 |
| 4/12/2008 | 34 | 181 | 183.5 | 9 | 311.8 | H | 0 | 15 | 1 | 0 | 12 | 3 | 61 | 0 | 0 | 6 | 0 | 51 |
| 4/13/2008 | 34 | 190.2 | 193.2 | 9 | 316.2 | H | 0 | 6 | 1 | 1 | 2 | 0 | 39 | 0 | 0 | 3 | 0 | 53 |
| 4/14/2008 | 24 | 206 | 207.8 | 10 | 306.5 | H | 0 | 9 | 0 | 1 | 7 | 4 | 25 | 0 | 1 | 1 | 0 | 12 |
| 4/15/2008 | 24 | 213.2 | 215.1 | 10 | 305.3 | H | 0 | 3 | 1 | 0 | 1 | 3 | 14 | 0 | 0 | 2 | 0 | 13 |
| 4/16/2008 | 30 | 221.1 | 224.7 | 11 | 304.8 | H | 0 | 5 | 2 | 2 | 4 | 1 | 24 | 0 | 0 | 2 | 0 | 11 |
| **Total** | | | | | | | **2** | **141** | **206** | **4** | **80** | **26** | **453** | **6** | **1** | **1284** | **1** | **219** |

**Table 3.** River miles and relative length for sample reaches used in this report.

| Sample reach | Start river mile | End river mile | total miles |
|---|---|---|---|
| 1 | 0 | 56 | 56 |
| 2 | 56.1 | 69 | 13 |
| 3 | 69.1 | 109 | 40 |
| 4 | 109.1 | 179 | 70 |
| 5 | 179.1 | 226 | 47 |

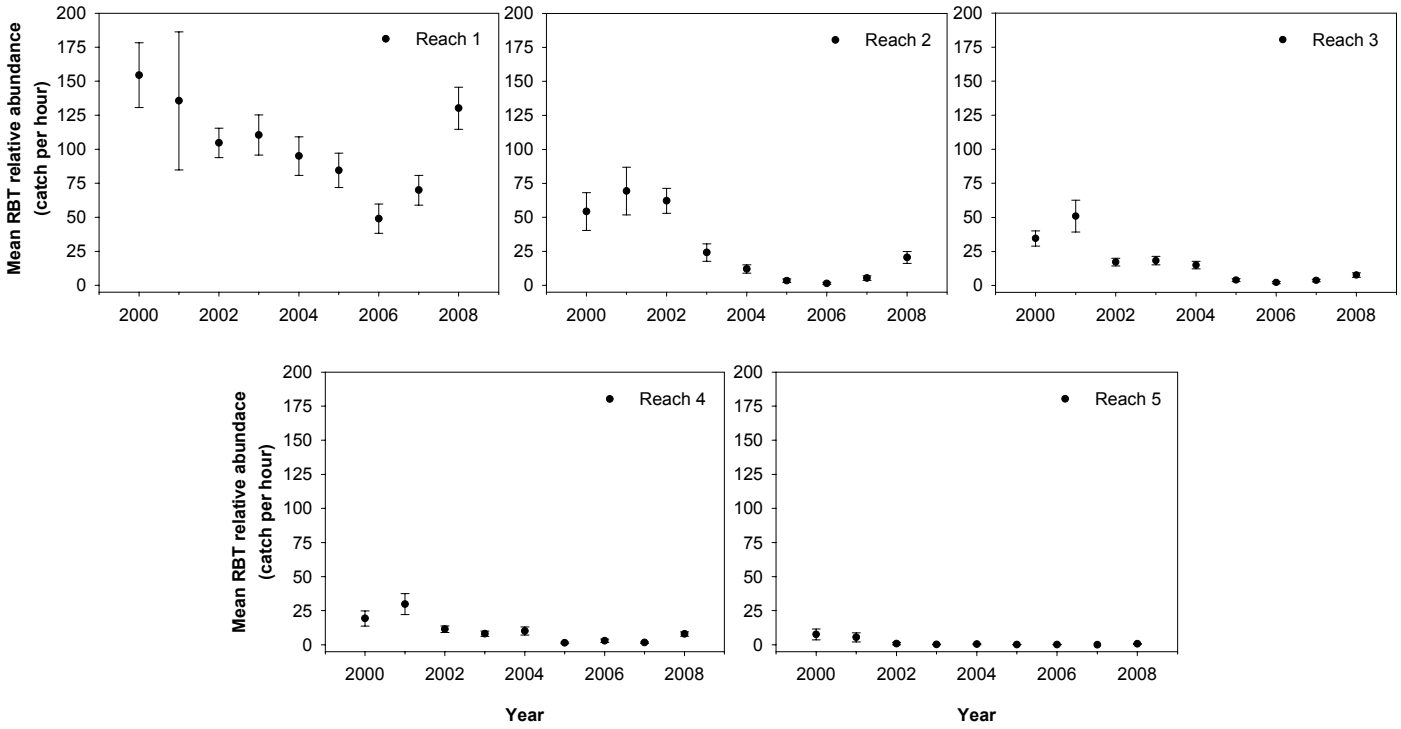



**Figure 1.** Mean rainbow trout catch per unit effort (fish per hour) by fish reach during 2000-2008 (Colorado River, Grand Canyon). Bars represent ± 2 standard errors of the mean.

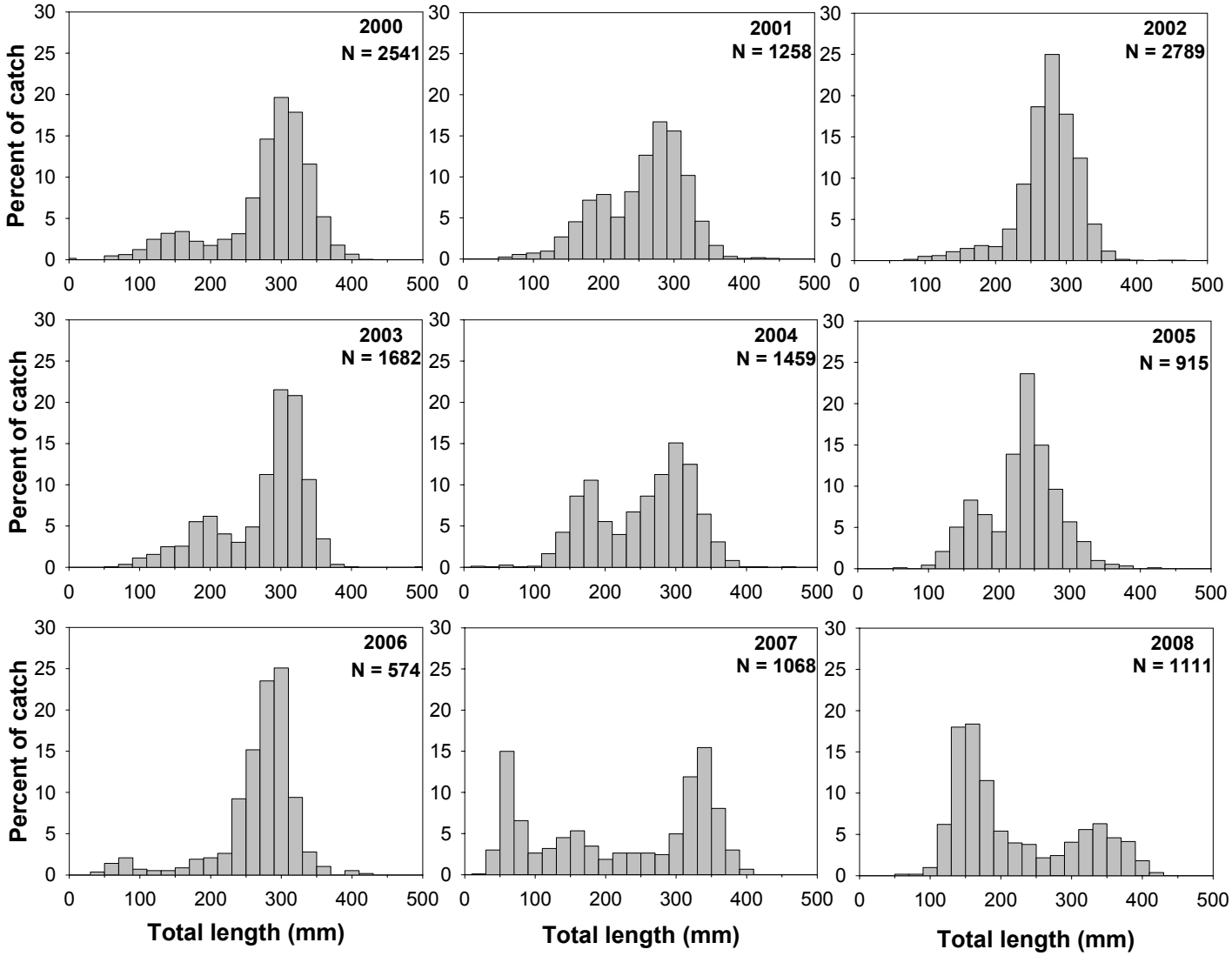



**Figure 2.** Rainbow trout length frequency during 2000-2008 all reaches (Colorado River, Grand Canyon).

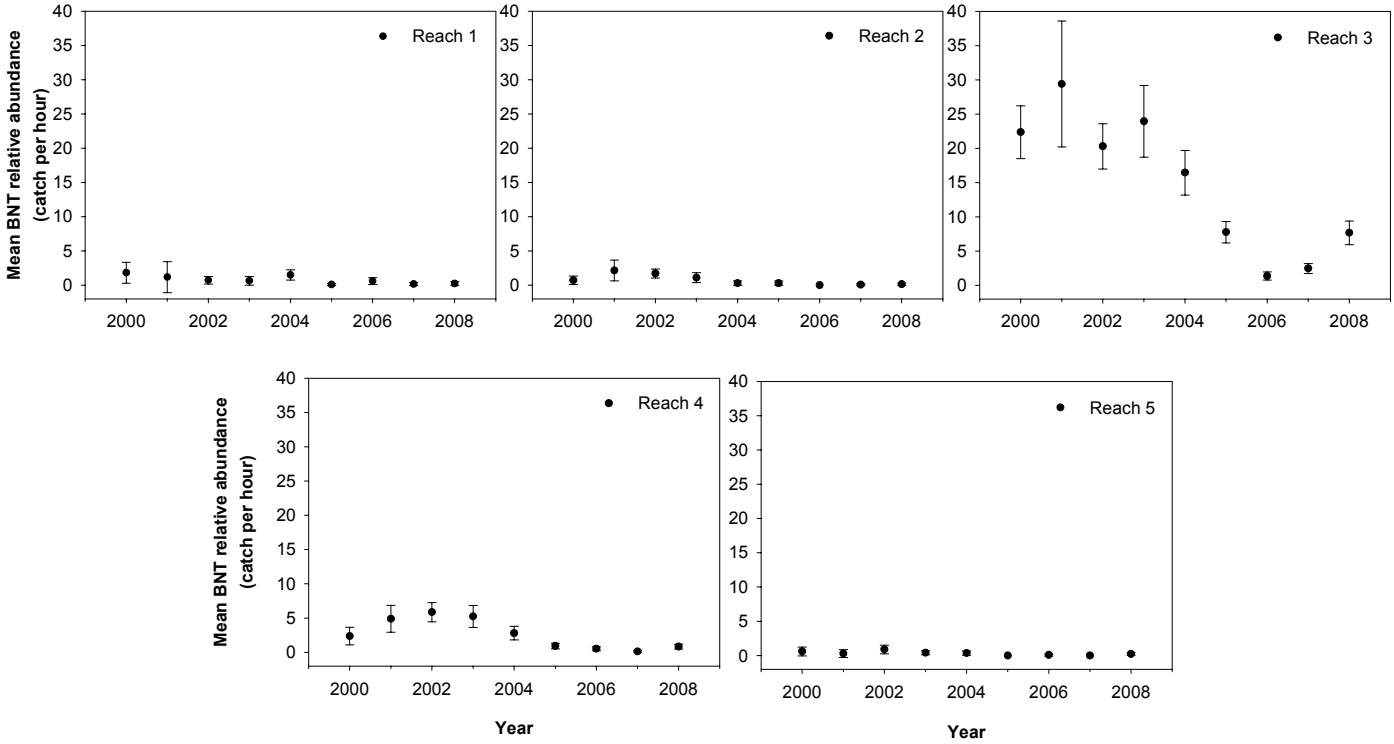



**Figure 3.** Mean brown trout catch per unit effort (fish per hour) by fish reach during 2000-2008 (Colorado River, Grand Canyon). Bars represent ± 2 standard errors of the mean.

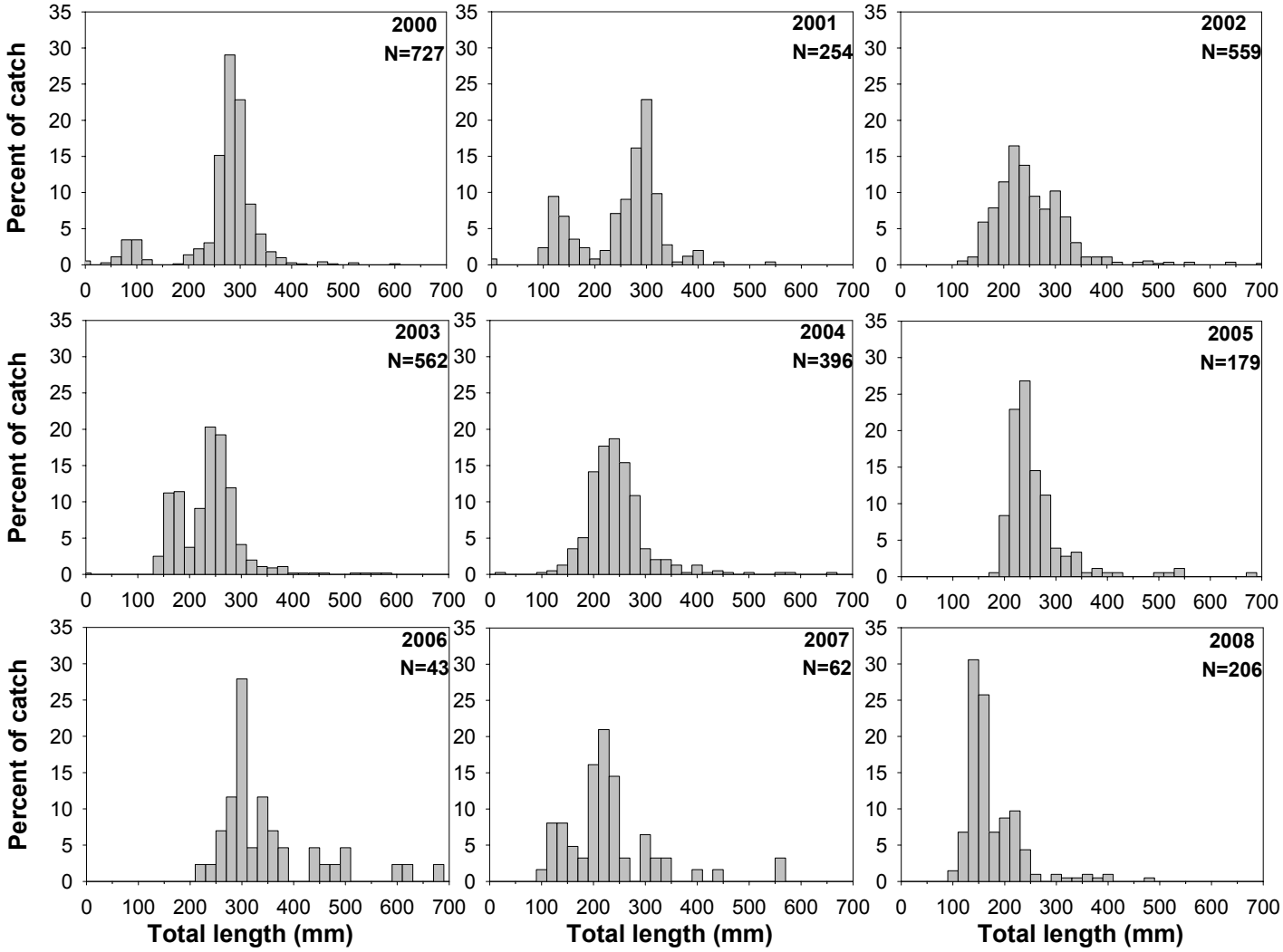



**Figure 4.** Brown trout length frequency during 2000-2008 all reaches (Colorado River, Grand Canyon).

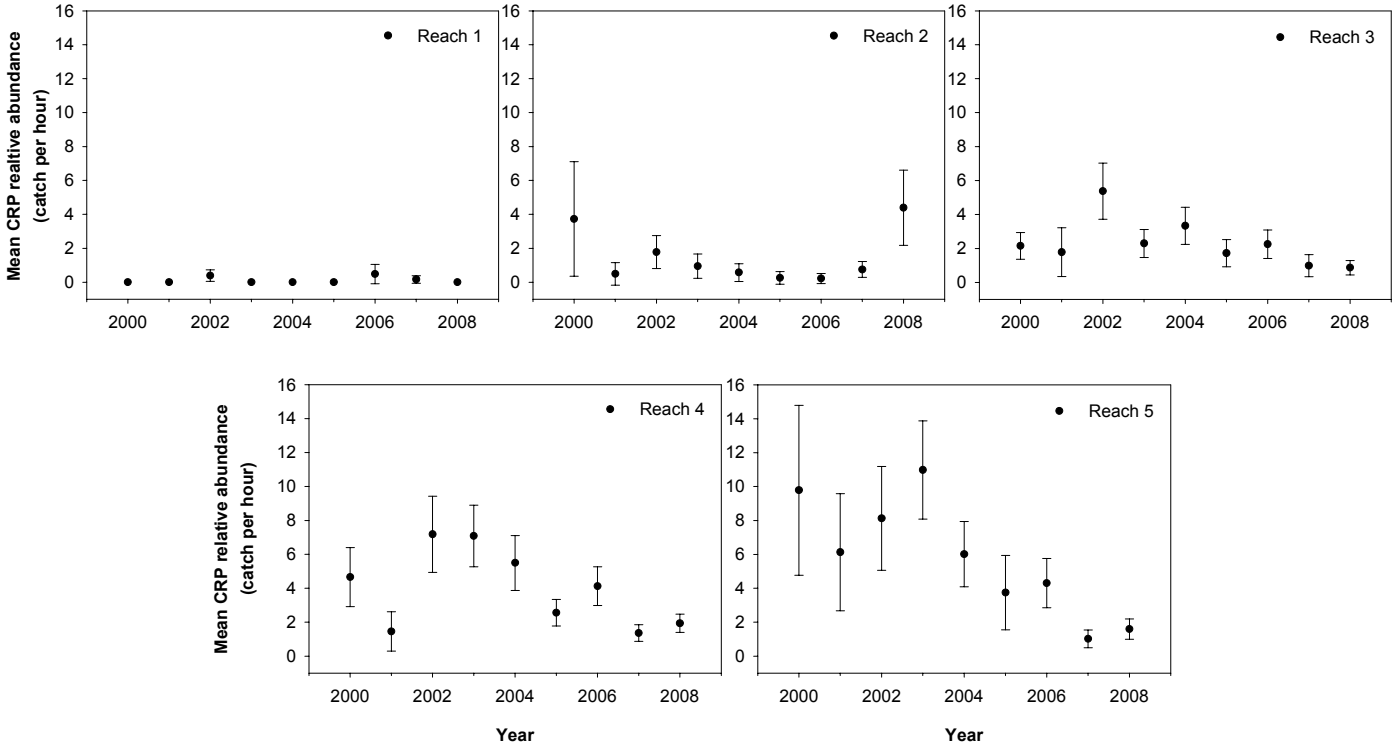



**Figure 5.** Mean common carp catch per unit effort (fish per hour) by fish reach during 2000-2008 (Colorado River, Grand Canyon). Bars represent ± 2 standard errors of the mean.

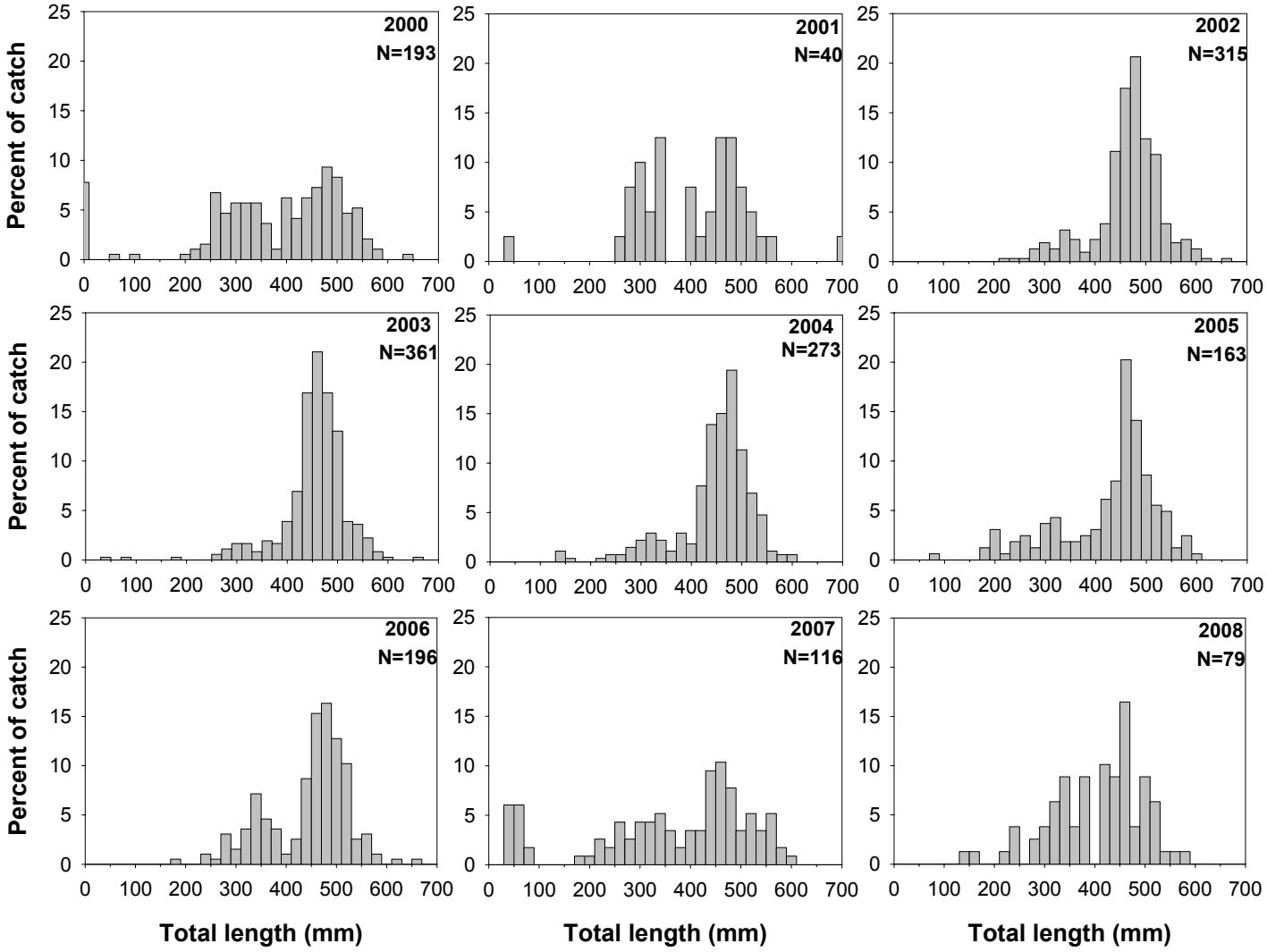



**Figure 6.** Common carp length frequency during 2000-2008 all reaches (Colorado River, Grand Canyon).

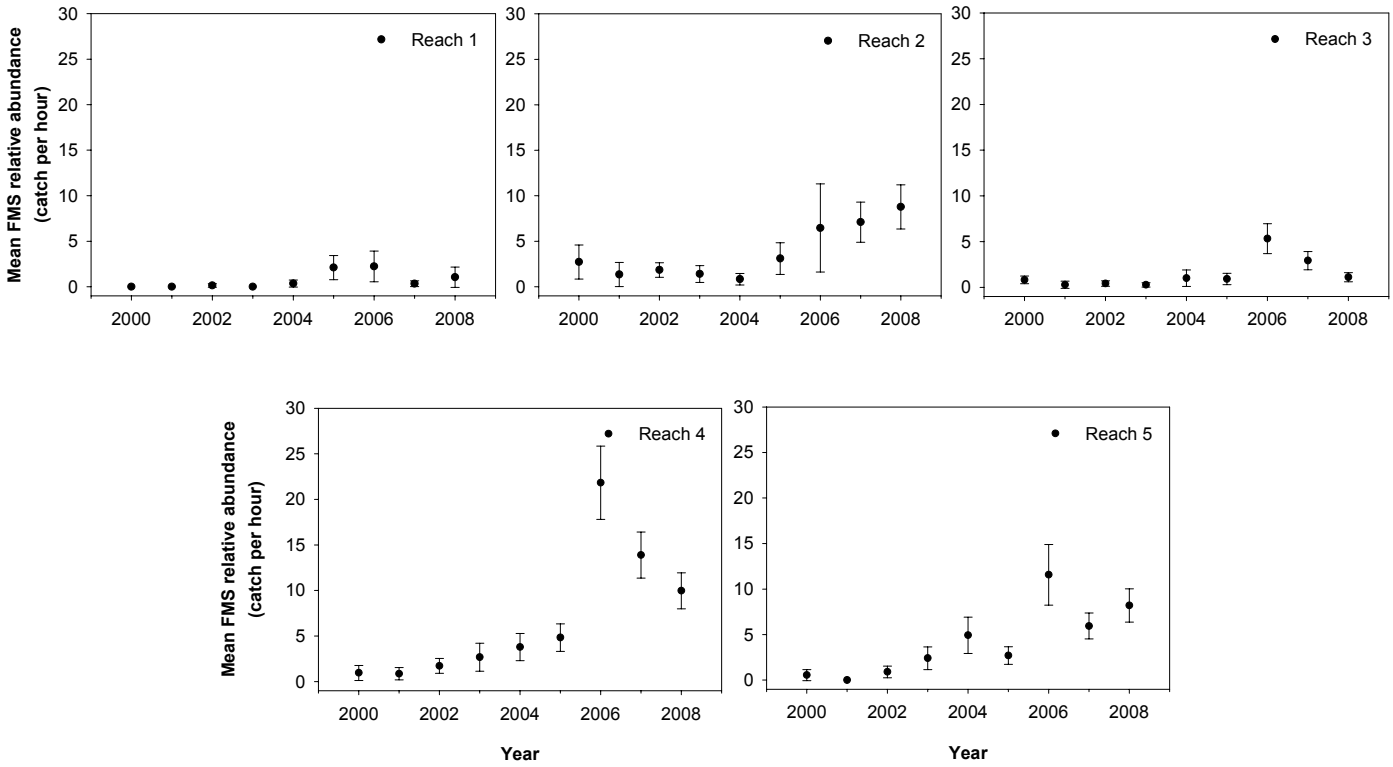



**Figure 7.** Mean flannelmouth sucker catch per unit effort (fish per hour) by fish reach during 2000-2008 (Colorado River, Grand Canyon). Bars represent ± 2 standard errors of the mean.

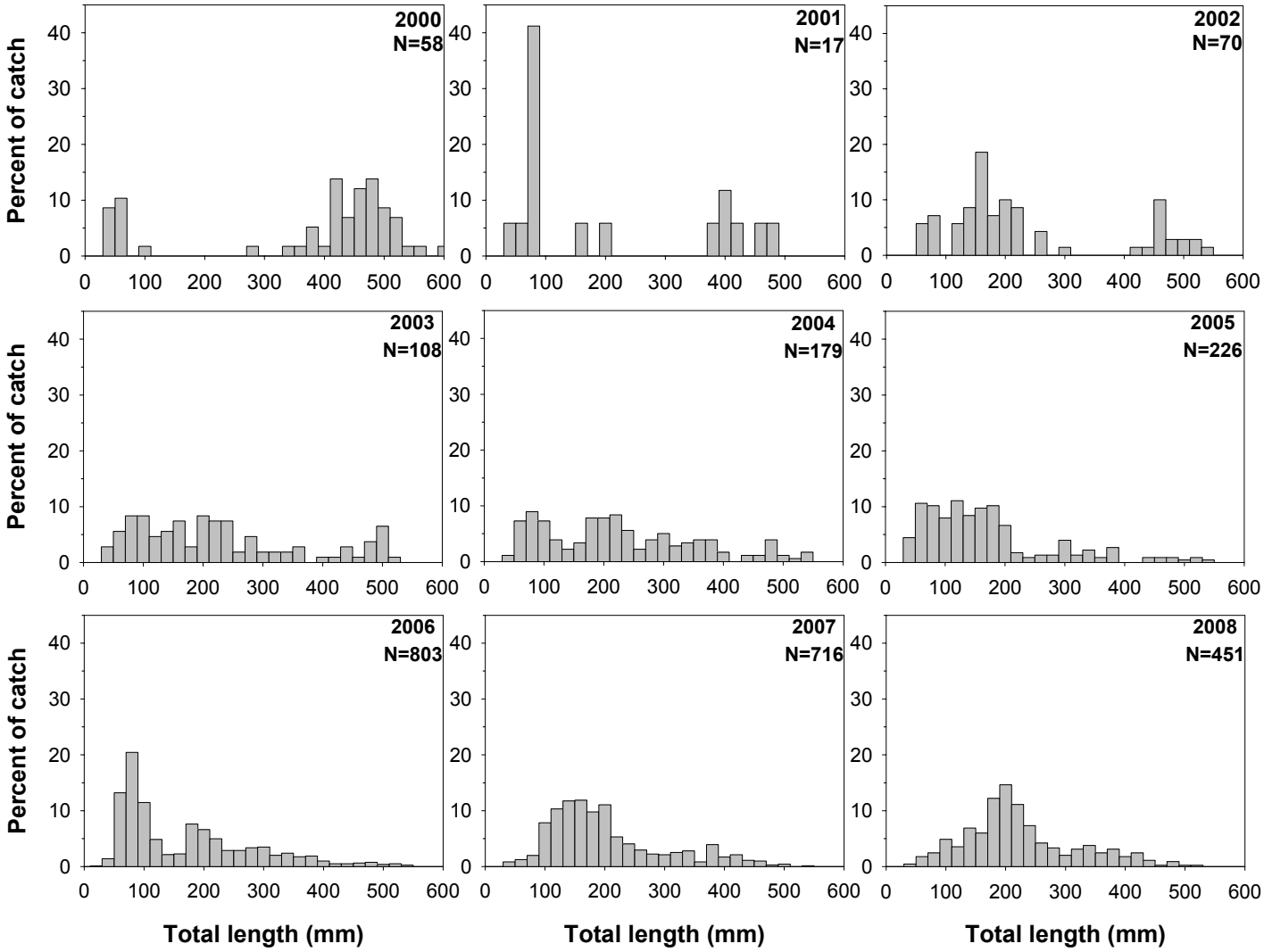



**Figure 8.** Flannelmouth sucker length frequency during 2000-2008 all reaches (Colorado River, Grand Canyon).

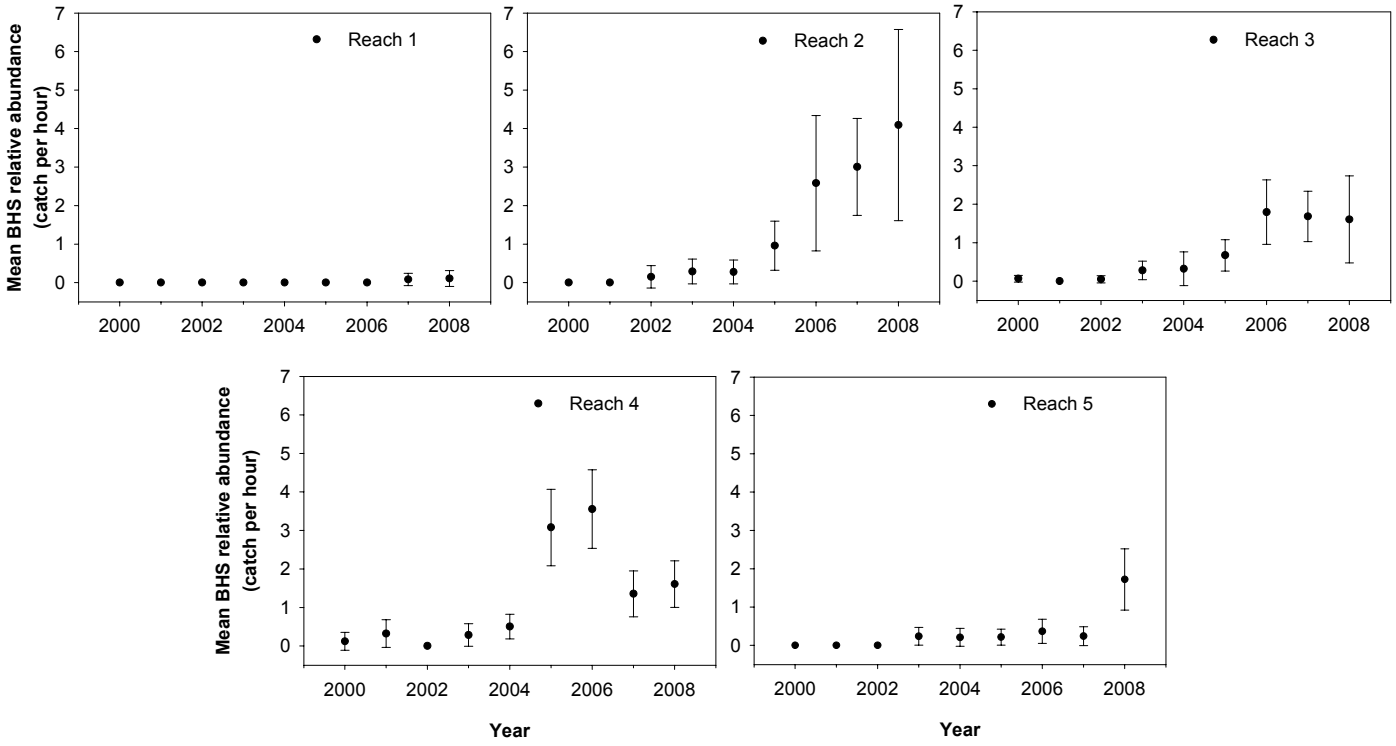



**Figure 9.** Mean bluehead sucker catch per unit effort (fish per hour) by fish reach during 2000-2008 (Colorado River, Grand Canyon). Bars represent ± 2 standard errors of the mean.

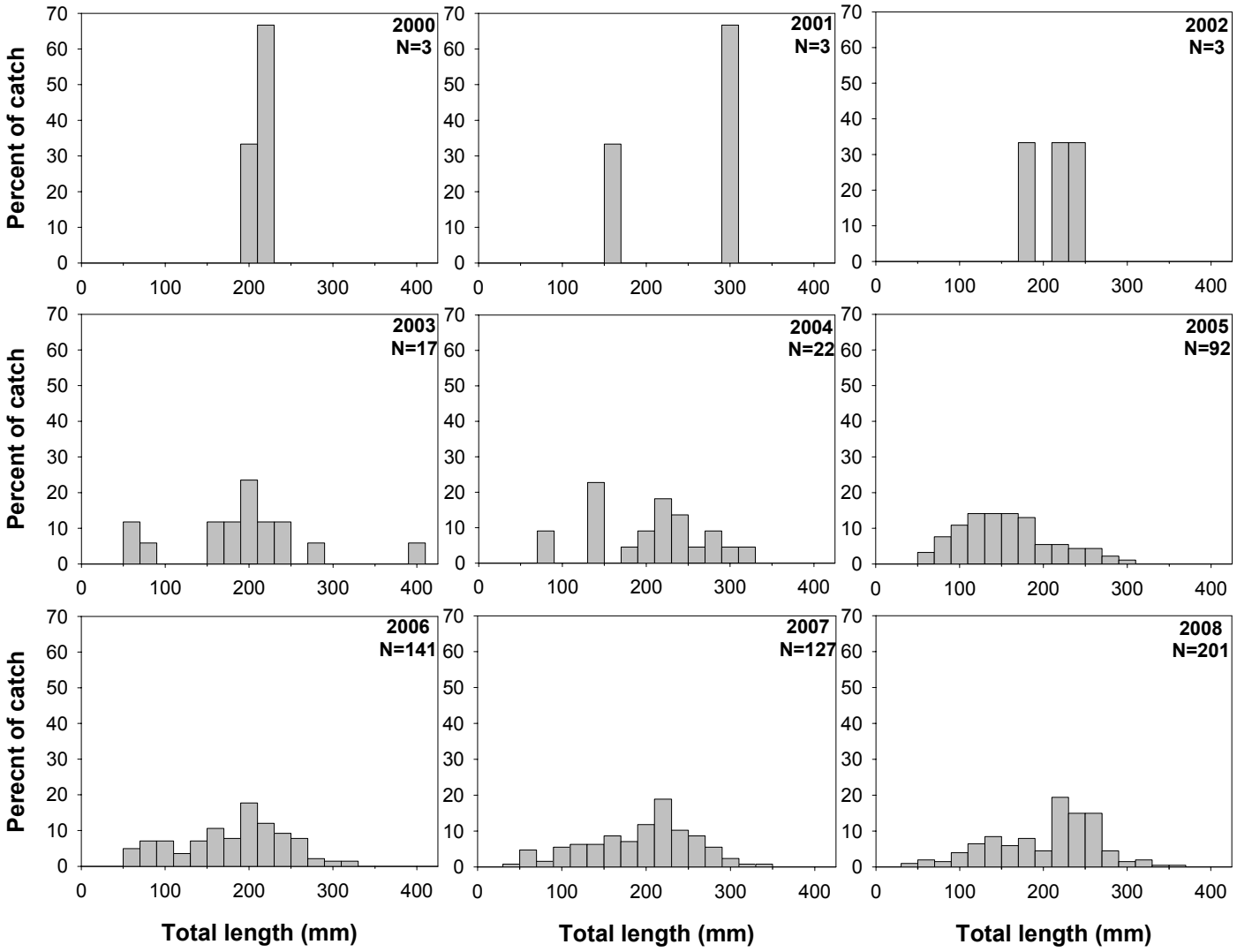



**Figure 10.** Bluehead sucker length frequency during 2000-2008 all reaches (Colorado River, Grand Canyon).

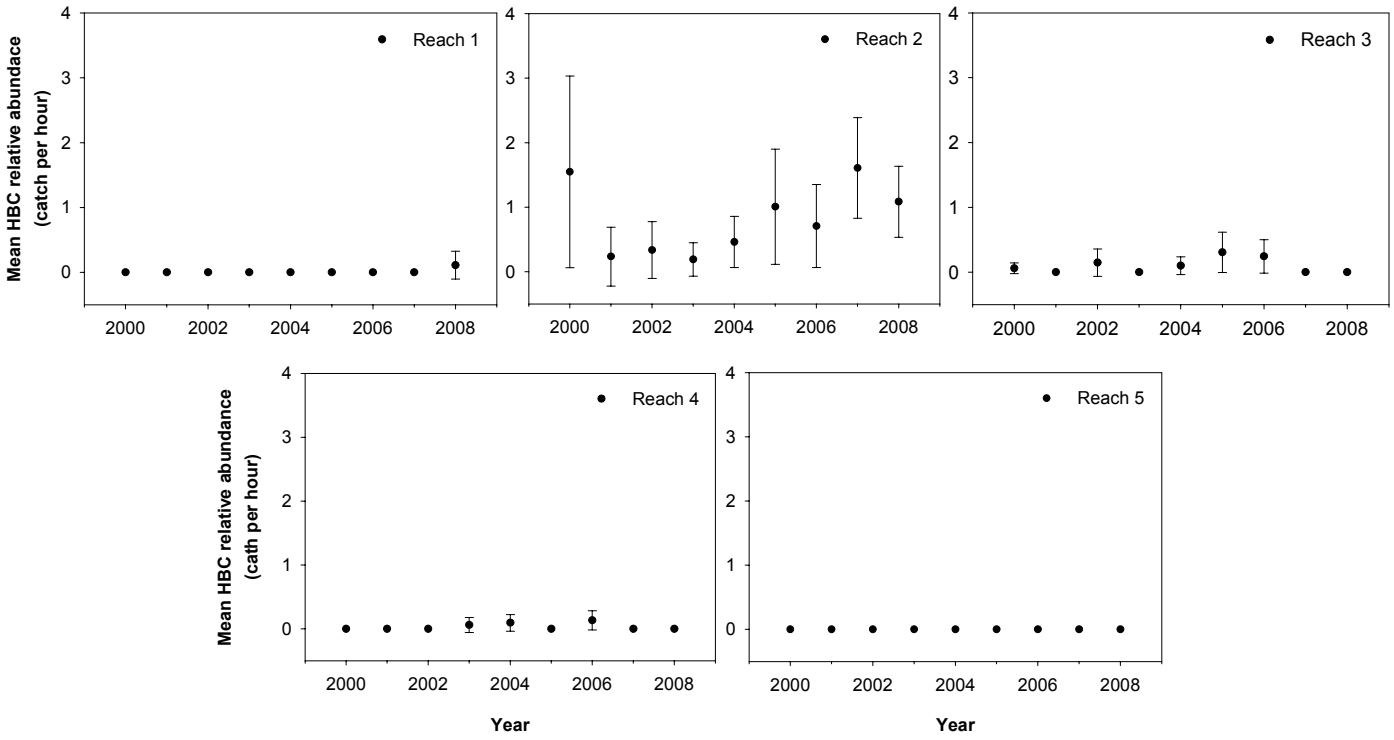
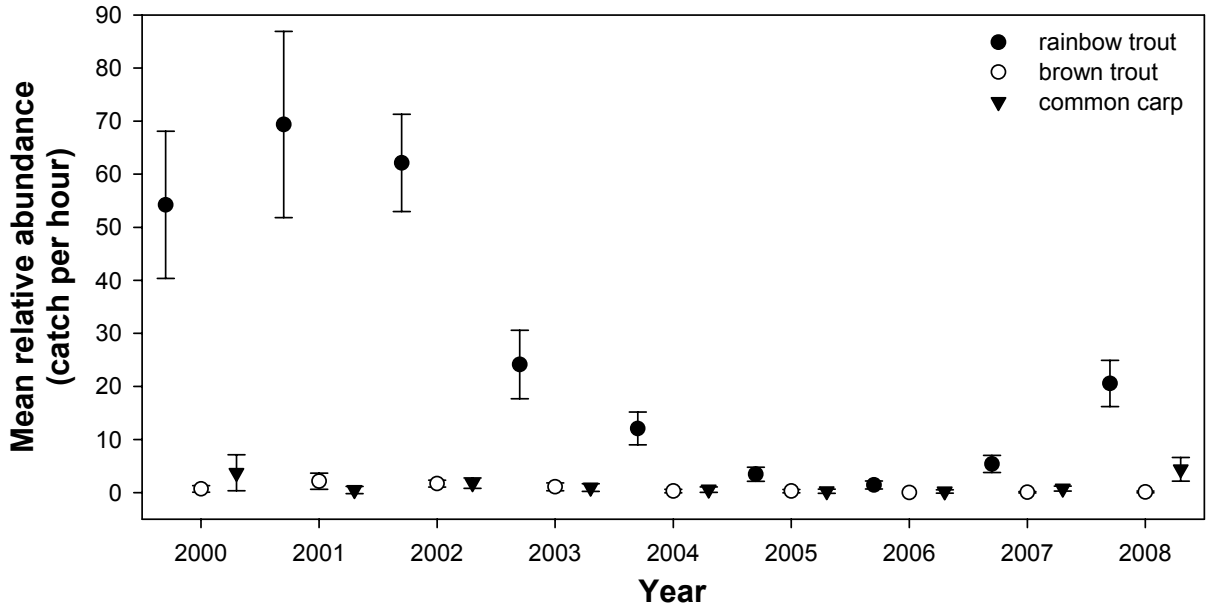



**Figure 11.** Mean humpback chub catch per unit effort (fish per hour) by fish reach during 2000-2008 (Colorado River, Grand Canyon). Bars represent ± 2 standard errors of the mean.

A). Non-native species




B). Native species

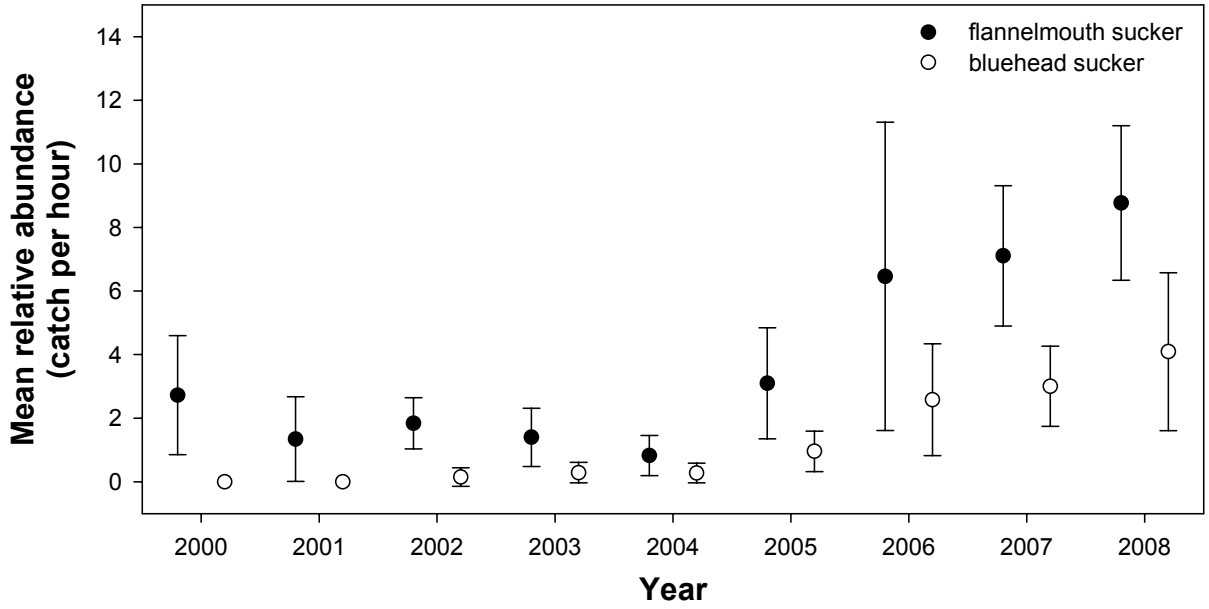



**Figure 12.** Mean relative abundance (catch per hour) of (A) non-native species (RBT, BNT, and CRP), and (B) native species (FMS and BHS) in reach two (RM 56.1-69), 2000-2008. Non-native fish removals took place between 2003 and 2006. Bars represent ± 2 standard errors of the mean.

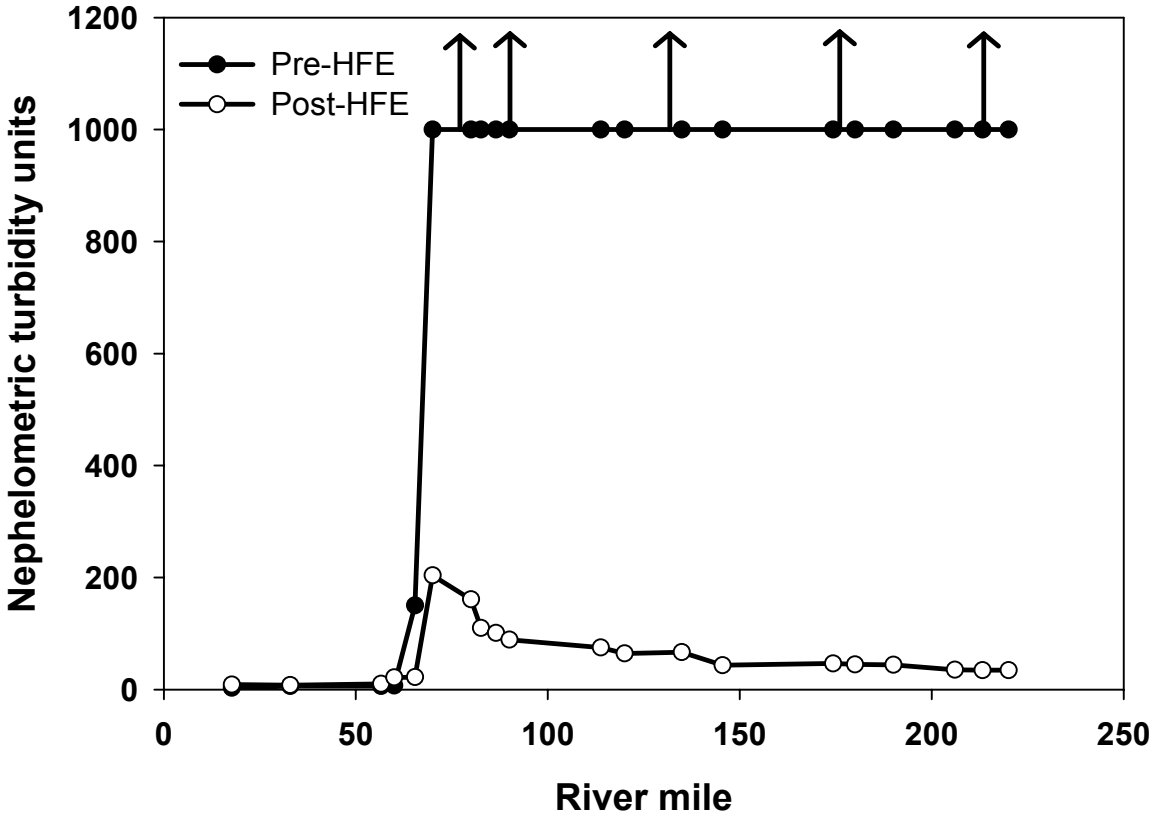



**Figure 13.** Turbidity measures at each river mile (RM) sampled for Arizona Game and Fish Department trips in February (GC20080205) and March-April (GC20080327), Colorado River, Grand Canyon 2008.

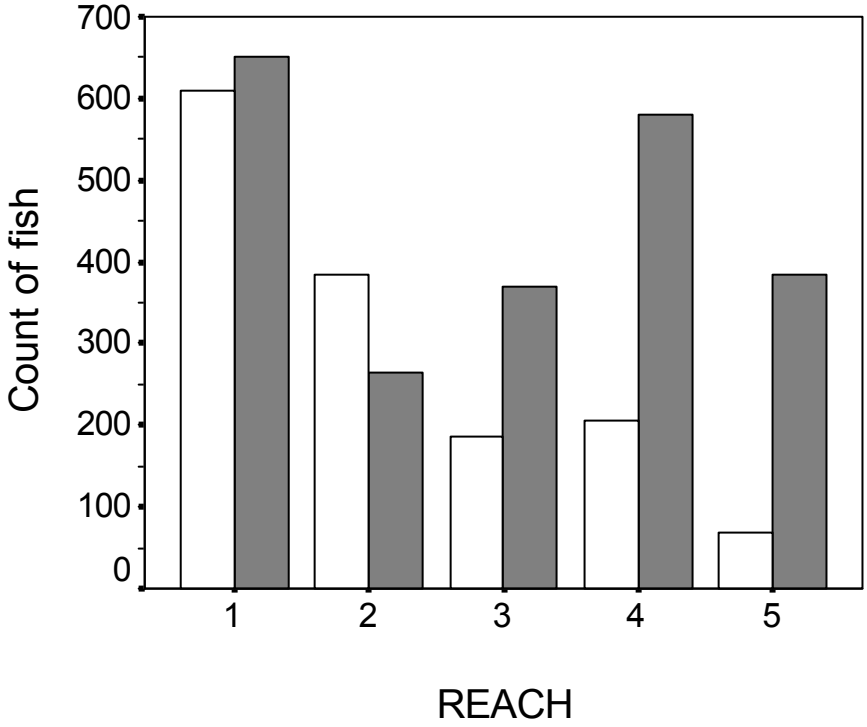



**Figure 14.** Total number of fish captured in each reach by electroshocking on Arizona Game and Fish Department trips prior to the HFE (white bars) and after the HFE (gray bars) in the Colorado River, Grand Canyon, February 2008 and March–April 2008.

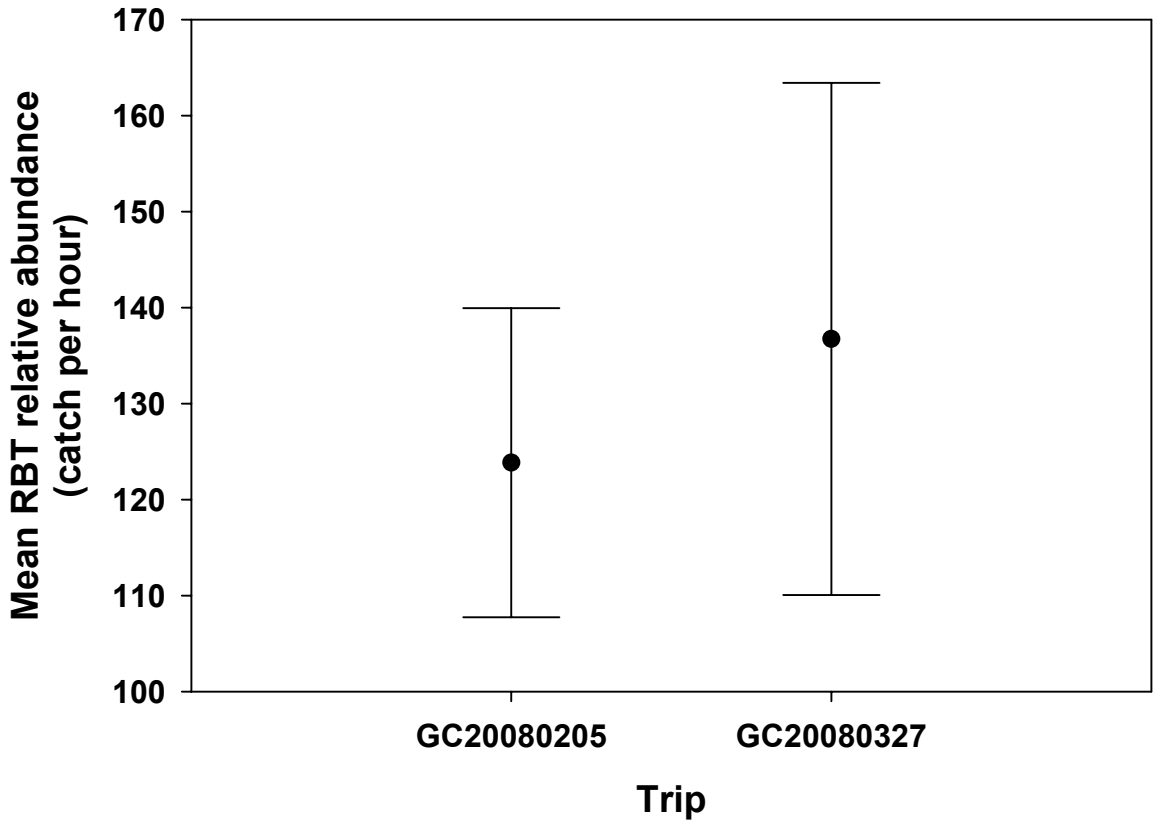



**Figure 15.** Rainbow trout mean catch per unit effort (fish per hour) and 95% confidence intervals on trips GC20080205 (Pre HFE) and GC20080327 (Post HFE; Colorado River in Grand Canyon, reach 1, February 2008 and March–April 2008).

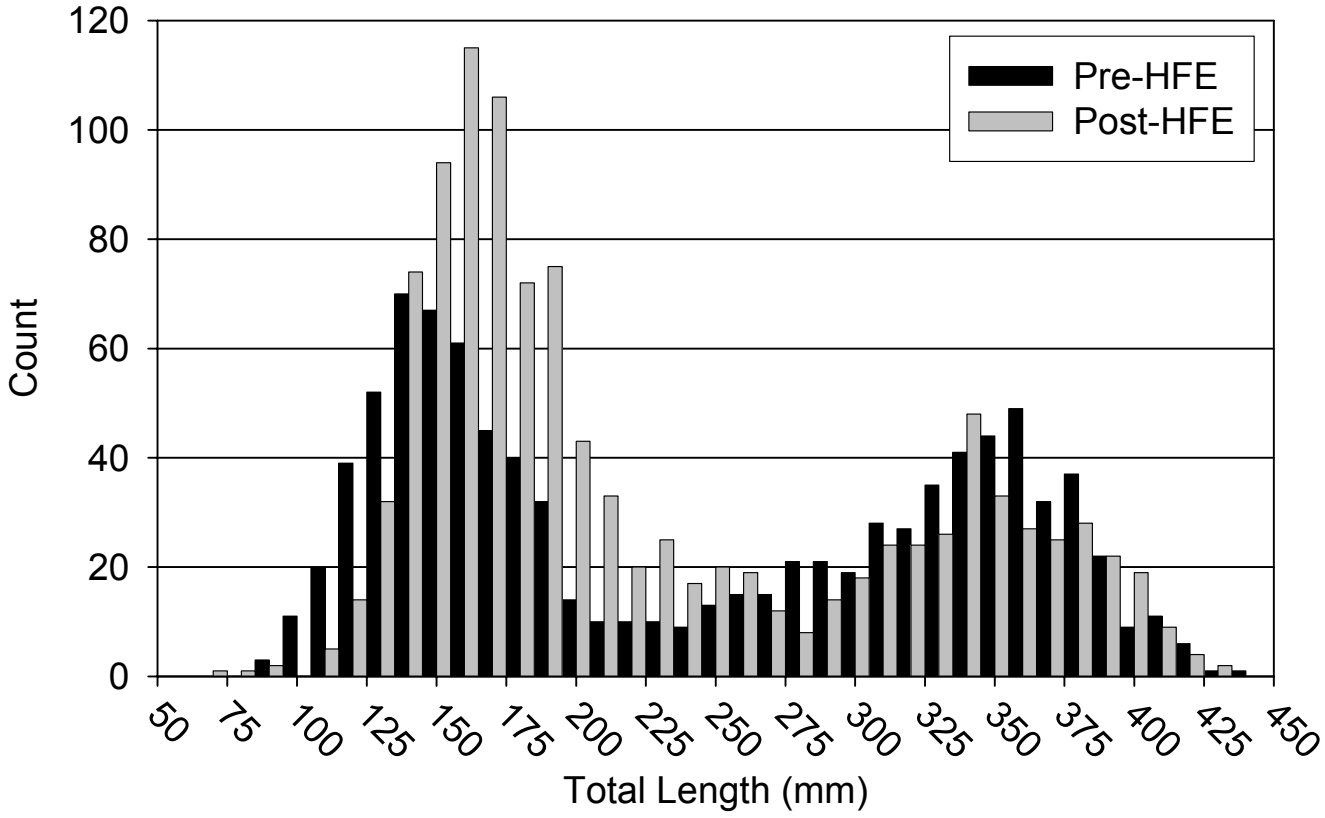



**Figure 16.** Rainbow trout length histograms for trips GC20080205 (Pre HFE) and GC20080327 (Post HFE) Colorado River in Grand Canyon, February 2008 and March–April 2008).

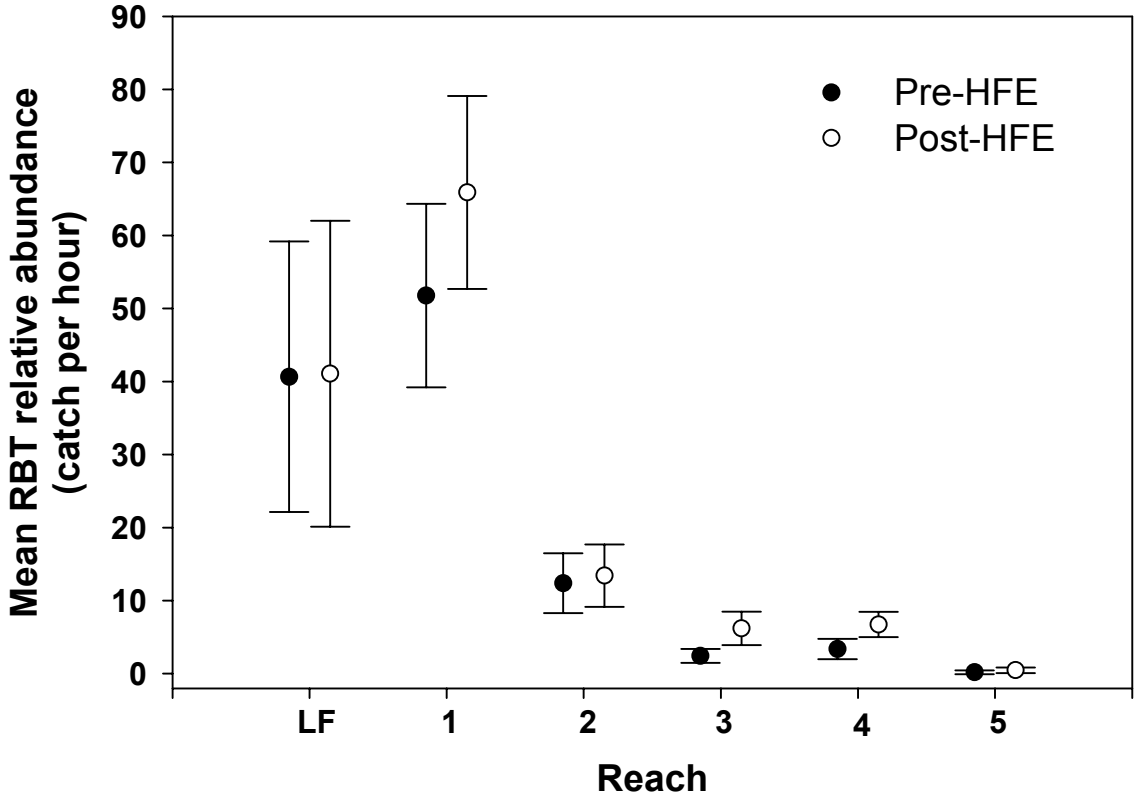



**Figure 17.** Rainbow trout (>100mm and <200mm) mean catch per unit effort (fish per hour) by reach (LF = Lees Ferry, Reach 1 = RM 0 – 56, Reach 2 = RM 56.1 – 69, Reach 3 = RM 69.1 – 109, Reach 4 = RM 109.1 – 179, Reach 5 = RM 179.1 – 226) for trips GC20080205 (Pre HFE) and GC20080327 (Post HFE; Colorado River in Grand Canyon, RM -15 – 226, February 2008 and March–April 2008). Bars represent ± 2 standard errors of the mean.

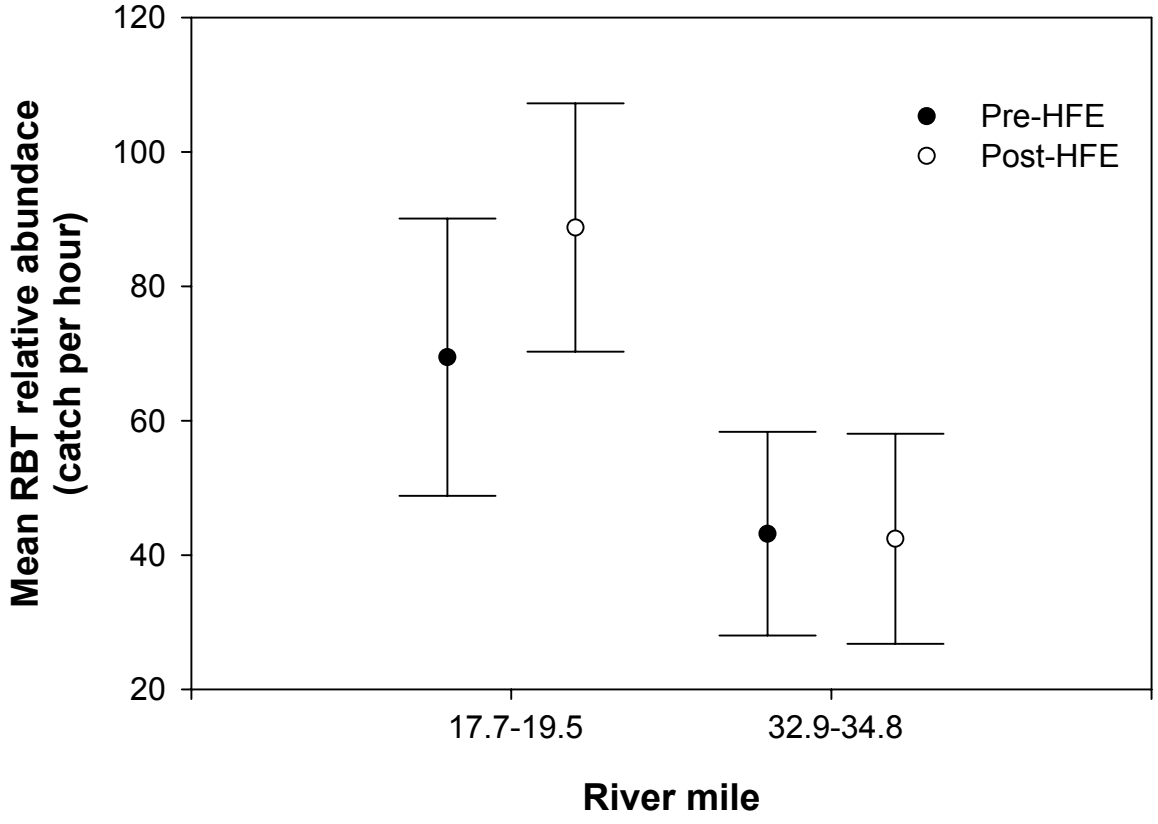



**Figure 18.** Rainbow trout (>100mm and <200mm) mean catch per unit effort (fish per hour) for reach 1 and 95% confidence intervals on trips GC20080205 (Pre HFE) and GC20080327 (Post HFE, (February 2008 and March–April 2000.

## APPENDICIES

**Appendix 1.** Common and scientific names as well as three-letter abbreviations of species listed in this report

| Scientific Name | Common Name | Abbreviation |
|---|---|---|
| *Oncorhynchus mykiss* | Rainbow trout | RBT |
| *Salmo trutta* | Brown trout | BNT |
| *Cyprinus carpio* | Common carp | CRP |
| *Gila cypha* | Humpback chub | HBC |
| *Rhinichthys osculus* | Speckled dace | SPD |
| *Pimephales promelas* | Fathead minnow | FHM |
| *Cyprinella lutrensis* | Red shiner | RSH |
| *Catostomus latipinnis* | Flannelmouth sucker | FMS |
| *Catostomus discobolus* | Bluehead sucker | BHS |
| *Ictalurus punctatus* | Channel catfish | CCF |
| *Ictalurus melas* | Black bullhead | BBH |
| *Morone saxatilis* | Striped bass | STB |
| *Dorosoma cepedianum* | Gizzard Shad | GZD |
| *Fundulus zebrinus* | Plains Killifish | PKF |

**Appendix 2.** Personnel involved in AGFD monitoring trips in 2008 (February-April)

| GC20080205 Trip 1 | | |
|---|---|---|
| Crew Member | Duty | Agency |
| Scott Rogers | Biologist | Arizona Game and Fish Department |
| Clay Nelson | Biologist | Arizona Game and Fish Department |
| Sarah Hurteau | Biologist | Arizona Game and Fish Department |
| Matthew Hangsleben | Biologist | Arizona Game and Fish Department |
| Brian Clark | Biologist | Arizona Game and Fish Department |
| Nathan Lockheart | Volunteer | Volunteer |
| Stewart Reeder | Boat Operator | Humphrey Summit |
| Brett Starks | Boat Operator | Humphrey Summit |
| Ann-Marie Bringherst | Boat Operator | Humphrey Summit |
| Travis V. | Boat Operator | Humphrey Summit |
| Carol Fritzinger | Logistics | Grand Canyon Monitoring and Research Center |

| GC20080327 Trip 2 | | |
|---|---|---|
| Crew Member | Duty | Agency |
| Clay Nelson | Biologist | Arizona Game and Fish Department |
| Andy Makinster | Biologist | Arizona Game and Fish Department |
| Sarah Hurteau | Biologist | Arizona Game and Fish Department |
| Matthew Hangsleben | Biologist | Arizona Game and Fish Department |
| Brian Johnson | Volunteer | Volunteer |
| Matthew Hurteau | Volunteer | Volunteer |
| Stewart Reeder | Boat Operator | Humphrey Summit |
| Brett Starks | Boat Operator | Humphrey Summit |
| Ann-Marie Bringherst | Boat Operator | Humphrey Summit |
| Kirk Burnnett | Boat Operator | Humphrey Summit |
| Carol Fritzinger | Logistics | Grand Canyon Monitoring and Research Center |

**Appendix 3.** All fish PIT and Floy tagged during 2008 fish monitoring using electrofishing**.**

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
|---|---|---|---|---|---|---|---|
| 2/6/2008 | COR | 34.5 | FMS | 368 | 349 | N | 3D9.1C2C9CD8CC |
| 2/7/2008 | COR | 57 | FMS | 339 | 323 | N | 3D9.1C2C9CC1FB |
| 2/7/2008 | COR | 57 | FMS | 381 | 360 | N | 3D9.1C2C9C9235 |
| 2/7/2008 | COR | 57.6 | FMS | 334 | 320 | N | 3D9.1C2C87D633 |
| 2/7/2008 | COR | 57.2 | FMS | 217 | 200 | N | 3D9.1C2C9CD7A5 |
| 2/7/2008 | COR | 57.2 | FMS | 335 | 318 | N | 3D9.1C2C87EC0 |
| 2/7/2008 | COR | 57.4 | FMS | 365 | 346 | N | 3D9.1C2CA97C48 |
| 2/7/2008 | COR | 58.4 | FMS | 304 | 289 | N | 3D9.1C2C9860FE |
| 2/7/2008 | COR | 58.5 | FMS | 361 | 350 | N | 3D9.1C2C9C60E5 |
| 2/7/2008 | COR | 57.9 | FMS | 357 | 338 | N | 3D9.1C2C9E7911 |
| 2/7/2008 | COR | 58.7 | FMS | 428 | 403 | N | 3D9.1C2C9E09F9 |
| 2/7/2008 | COR | 58 | FMS | 281 | 266 | N | 3D9.1C2C9CD03B |
| 2/7/2008 | COR | 58 | FMS | 420 | 400 | N | 3D9.1C2C9CDE12 |
| 2/7/2008 | COR | 58 | FMS | 505 | 477 | N | 3D9.1C2C9E72F1 |
| 2/7/2008 | COR | 58.8 | FMS | 202 | 189 | N | 3D9.1C2C9CA217 |
| 2/7/2008 | COR | 58.3 | FMS | 250 | 237 | N | 3D9.1C2C9CA58F |
| 2/7/2008 | COR | 58.3 | FMS | 319 | 299 | N | 3D9.1C2C9DEB06 |
| 2/7/2008 | COR | 58.3 | FMS | 399 | 376 | N | 3D9.1C2C9E7804 |
| 2/8/2008 | COR | 61.1 | FMS | 154 | 145 | N | 3D9.1C2C9C4DD0 |
| 2/8/2008 | COR | 61.1 | FMS | 198 | 182 | N | 3D9.1C2C9E0B64 |
| 2/8/2008 | COR | 61.1 | FMS | 203 | 191 | N | 3D9.1C2C9E6F7B |
| 2/8/2008 | COR | 61.1 | FMS | 210 | 196 | N | 3D9.1C2C9CA171 |
| 2/8/2008 | COR | 61.1 | FMS | 211 | 195 | N | 3D9.1C2C9C75B7 |
| 2/8/2008 | COR | 62 | FMS | 430 | 411 | N | 3D9.1C2C9C89C2 |
| 2/8/2008 | COR | 61.2 | FMS | 195 | 185 | N | 3D9.1C2C9C6769 |
| 2/8/2008 | COR | 61.2 | FMS | 364 | 348 | N | 3D9.1C2C9CB6FD |
| 2/8/2008 | COR | 61.3 | FMS | 210 | 192 | N | 3D9.1C2C87BB95 |
| 2/8/2008 | COR | 61.3 | FMS | 444 | 422 | N | 3D9.1C2C9C988C |
| 2/8/2008 | COR | 61.4 | FMS | 201 | 188 | N | 3D9.1C2C9CDC41 |
| 2/8/2008 | COR | 61.4 | FMS | 210 | 197 | N | 3D9.1C2CA9AEFC |
| 2/8/2008 | COR | 61.4 | FMS | 460 | 441 | N | 3D9.1C2C9CB3F3 |
| 2/8/2008 | COR | 61.5 | FMS | 189 | 178 | N | 3D9.1C2C878C15 |
| 2/8/2008 | COR | 61.5 | FMS | 199 | 188 | N | 3D9.1C2C9E7CBB |
| 2/8/2008 | COR | 61.5 | FMS | 233 | 217 | N | 3D9.1C2C989602 |
| 2/8/2008 | COR | 61.5 | FMS | 235 | 220 | N | 3D9.1C2C8E65F2 |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
|---|---|---|---|---|---|---|---|
| 2/8/2008 | COR | 61.6 | FMS | 360 | 345 | N | 3D9.1C2C9CC1A5 |
| 2/8/2008 | COR | 62.3 | FMS | 169 | 159 | N | 3D9.1C2C9CA87A |
| 2/8/2008 | COR | 62.4 | FMS | 263 | 242 | N | 3D9.1C2C9891BF |
| 2/8/2008 | COR | 62.4 | FMS | 370 | 354 | N | 3D9.1C2C9C9C92 |
| 2/8/2008 | COR | 62.4 | FMS | 421 | 398 | N | 3D9.1C2C9C75D8 |
| 2/8/2008 | COR | 62 | FMS | 359 | 342 | N | 3D9.1C2C9E6AB3 |
| 2/8/2008 | COR | 62.1 | FMS | 178 | 167 | N | 3D9.1C2C87D48A |
| 2/8/2008 | COR | 62.1 | FMS | 220 | 207 | N | 3D9.1C2C9CBA4C |
| 2/8/2008 | COR | 62.1 | FMS | 282 | 266 | N | 3D9.1C2C989197 |
| 2/8/2008 | COR | 62.1 | FMS | 293 | 275 | N | 3D9.1C2C9CD880 |
| 2/8/2008 | COR | 62.5 | FMS | 184 | 173 | N | 3D9.1C2C9CDF79 |
| 2/8/2008 | COR | 62.5 | FMS | 282 | 263 | N | 3D9.1C2C9CE180 |
| 2/8/2008 | COR | 62.2 | FMS | 225 | 209 | N | 3D9.1C2C9C6E8A |
| 2/8/2008 | COR | 63.1 | FMS | 188 | 176 | N | 3D9.1C2C9C6582 |
| 2/9/2008 | COR | 35.8 | FMS | 160 | 149 | N | 3D9.1C2C87D0C7 |
| 2/9/2008 | COR | 35.8 | FMS | 175 | 164 | N | 3D9.1C2C9C7CFD |
| 2/9/2008 | COR | 65.9 | FMS | 162 | 155 | N | 3D9.1C2C9CE16B |
| 2/9/2008 | COR | 66.2 | FMS | 351 | 329 | N | 3D9.1C2C9DF246 |
| 2/9/2008 | COR | 67 | FMS | 191 | 179 | N | 3D9.1C2C87B298 |
| 2/9/2008 | COR | 67.6 | FMS | 197 | 186 | N | 3D9.1C2C879846 |
| 2/9/2008 | COR | 67.6 | FMS | 234 | 223 | N | 3D9.1C2C87359E |
| 2/9/2008 | COR | 67.6 | FMS | 310 | 297 | N | 3D9.1C2C9C9196 |
| 2/9/2008 | COR | 67.6 | FMS | 383 | 363 | N | 3D9.1C2C9E7CC4 |
| 2/9/2008 | COR | 67.6 | FMS | 387 | 360 | N | 3D9.1C2C9C8021 |
| 2/9/2008 | COR | 67.6 | FMS | 426 | 403 | N | 3D9.1C2C9E702A |
| 2/9/2008 | COR | 67.6 | FMS | 430 | 407 | N | 3D9.1C2C9C6AB8 |
| 2/9/2008 | COR | 67.6 | FMS | 465 | 437 | N | 3D9.1C2C9CAA2F |
| 2/9/2008 | COR | 67.1 | FMS | 201 | 188 | N | 3D9.1C2C97F2B6 |
| 2/9/2008 | COR | 67.1 | FMS | 250 | 233 | N | 3D9.1C2C9DF527 |
| 2/10/2008 | COR | 69.7 | FMS | 344 | 327 | N | 3D9.1C2C873C8C |
| 2/10/2008 | COR | 71.4 | FMS | 468 | 444 | N | 3D9.1C2C87742D |
| 2/10/2008 | COR | 71.8 | FMS | 384 | 366 | N | 3D9.1C2C9CD505 |
| 2/10/2008 | COR | 71.1 | FMS | 175 | 162 | N | 3D9.1C2C97F62C |
| 2/10/2008 | COR | 72 | FMS | 204 | 191 | N | 3D9.1C2C9C9D5A |
| 2/10/2008 | COR | 72 | FMS | 442 | 418 | N | 3D9.1C2C9E695F |
| 2/10/2008 | COR | 72.3 | FMS | 196 | 184 | N | 3D9.1C2C9CAE0A |
| 2/11/2008 | COR | 80.3 | FMS | 305 | 290 | N | 3D9.1C2C9E7747 |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
|---|---|---|---|---|---|---|---|
| 2/11/2008 | COR | 80.3 | FMS | 316 | 300 | N | 3D9.1C2C97EDB5 |
| 2/11/2008 | COR | 81 | FMS | 337 | 319 | N | 3D9.1C2C9C80F8 |
| 2/12/2008 | COR | 82.5 | FMS | 193 | 182 | N | 3D9.1C2C9CC22A |
| 2/13/2008 | COR | 87.7 | FMS | 350 | 331 | N | 3D9.1C2C9E70C2 |
| 2/13/2008 | COR | 87.8 | FMS | 286 | 270 | N | 3D9.1C2C9C7709 |
| 2/13/2008 | COR | 87.8 | FMS | 337 | 320 | N | 3D9.1C2C872360 |
| 2/14/2008 | COR | 91.2 | FMS | 333 | 319 | N | 3D9.1C2C9E7C42 |
| 2/15/2008 | COR | 133.9 | FMS | 336 | 315 | N | 3D9.1C2C9C7045 |
| 2/15/2008 | COR | 114.6 | FMS | 181 | 170 | N | 3D9.1C2C9C8CDF |
| 2/15/2008 | COR | 115.2 | FMS | 230 | 211 | N | 3D9.1C2C8E7693 |
| 2/15/2008 | COR | 114.8 | FMS | 244 | 234 | N | 3D9.1C2C9C63DC |
| 2/15/2008 | COR | 115.2 | FMS | 195 | 183 | N | 3D9.1C2C9CE032 |
| 2/16/2008 | COR | 119.3 | FMS | 338 | 320 | N | 3D9.1C2C9CF793 |
| 2/16/2008 | COR | 119.5 | FMS | 215 | 204 | N | 3D9.1C2C9DE9BC |
| 2/16/2008 | COR | 119.8 | FMS | 257 | 242 | N | 3D9.1C2C8721C6 |
| 2/16/2008 | COR | 119.8 | FMS | 327 | 309 | N | 3D9.1C2CA9A32D |
| 2/16/2008 | COR | 120 | FMS | 182 | 173 | N | 3D9.1C2C982C59 |
| 2/16/2008 | COR | 120 | FMS | 227 | 217 | N | 3D9.1C2C9C46E7 |
| 2/16/2008 | COR | 120 | FMS | 230 | 218 | N | 3D9.1C2C9E4FC1 |
| 2/16/2008 | COR | 120 | FMS | 186 | 176 | N | 3D9.1C2C9C9AA9 |
| 2/16/2008 | COR | 120.4 | FMS | 205 | 192 | N | 3D9.1C2C87D9AC |
| 2/16/2008 | COR | 120.4 | FMS | 248 | 235 | N | 3D9.1C2CA9A1BF |
| 2/16/2008 | COR | 120.4 | FMS | 304 | 291 | N | 3D9.1C2C97EDB1 |
| 2/16/2008 | COR | 120.4 | FMS | 340 | 321 | N | 3D9.1C2C9CC1F4 |
| 2/16/2008 | COR | 120.4 | FMS | 346 | 327 | N | 3D9.1C2C9C88ED |
| 2/16/2008 | COR | 120.4 | FMS | 230 | 217 | N | 3D9.1C2C9CBDE8 |
| 2/16/2008 | COR | 120.8 | FMS | 227 | 214 | N | 3D9.1C2C9E6EE0 |
| 2/16/2008 | COR | 120.8 | FMS | 425 | 407 | N | 3D9.1C2C9CD7B1 |
| 2/16/2008 | COR | 120.9 | FMS | 391 | 373 | N | 3D9.1C2C9C4BFE |
| 2/16/2008 | COR | 120.5 | FMS | 204 | 195 | N | 3D9.1C2C9E7D17 |
| 2/16/2008 | COR | 120.5 | FMS | 277 | 265 | N | 3D9.1C2C9CE34D |
| 2/16/2008 | COR | 120.8 | FMS | 399 | 375 | N | 3D9.1C2C9C7CD9 |
| 2/17/2008 | COR | 136.9 | FMS | 215 | 204 | N | 3D9.1C2C9E7375 |
| 2/17/2008 | COR | 137 | FMS | 282 | 266 | N | 3D9.1C2C877D12 |
| 2/17/2008 | COR | 137.1 | FMS | 224 | 209 | N | 3D9.1C2C9CF2B8 |
| 2/17/2008 | COR | 137.1 | FMS | 391 | 371 | N | 3D9.1C2C98280E |
| 2/17/2008 | COR | 136.5 | FMS | 354 | 336 | N | 3D9.1C2C87711F |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
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| 2/17/2008 | COR | 137.4 | FMS | 204 | 190 | N | 3D9.1C2C9C485D |
| 2/17/2008 | COR | 136.6 | FMS | 306 | 286 | N | 3D9.1C2C879DDF |
| 2/17/2008 | COR | 136.6 | FMS | 412 | 390 | N | 3D9.1C2C8781EE |
| 2/18/2008 | COR | 145.5 | FMS | 171 | 155 | N | 3D9.1C2C9C56A0 |
| 2/18/2008 | COR | 146.4 | FMS | 186 | 175 | N | 3D9.1C2C989470 |
| 2/18/2008 | COR | 146.8 | FMS | 218 | 203 | N | 3D9.1C2C9E7D74 |
| 2/18/2008 | COR | 146.8 | FMS | 233 | 220 | N | 3D9.1C2C9DFBF6 |
| 2/18/2008 | COR | 146.8 | FMS | 255 | 241 | N | 3D9.1C2C98918D |
| 2/18/2008 | COR | 146.8 | FMS | 293 | 278 | N | 3D9.1C2C877EE7 |
| 2/18/2008 | COR | 147.2 | FMS | 171 | 161 | N | 3D9.1C2CA9AD21 |
| 2/18/2008 | COR | 147.3 | FMS | 191 | 177 | N | 3D9.1C2C9CE199 |
| 2/18/2008 | COR | 147.2 | FMS | 261 | 247 | N | 3D9.1C2C8773EE |
| 2/18/2008 | COR | 147.2 | FMS | 273 | 256 | N | 3D9.1C2C87D113 |
| 2/19/2008 | COR | 174.4 | FMS | 169 | 156 | N | 3D9.1C2C8728E4 |
| 2/19/2008 | COR | 174.6 | FMS | 220 | 205 | N | 3D9.1C2C9CC3C7 |
| 2/19/2008 | COR | 174.6 | FMS | 239 | 224 | N | 3D9.1C2C9C8FB9 |
| 2/19/2008 | COR | 174.7 | FMS | 188 | 175 | N | 3D9.1C2C9C922F |
| 2/19/2008 | COR | 174.7 | FMS | 190 | 179 | N | 3D9.1C2C9C90D2 |
| 2/19/2008 | COR | 174.7 | FMS | 200 | 185 | N | 3D9.1C2CA8245F |
| 2/19/2008 | COR | 174.7 | FMS | 216 | 200 | N | 3D9.1C2C872B4B |
| 2/19/2008 | COR | 175.6 | FMS | 197 | 184 | N | 3D9.1C2C8705F5 |
| 2/19/2008 | COR | 175.6 | FMS | 220 | 210 | N | 3D9.1C2C9E7E00 |
| 2/19/2008 | COR | 175.7 | FMS | 276 | 261 | N | 3D9.1C2C9E78AF |
| 2/19/2008 | COR | 175.8 | FMS | 237 | 220 | N | 3D9.1C2C87AEDF |
| 2/19/2008 | COR | 175.8 | FMS | 310 | 296 | N | 3D9.1C2C9CD861 |
| 2/19/2008 | COR | 175.5 | FMS | 199 | 187 | N | 3D9.1C2C9C9F7A |
| 2/19/2008 | COR | 175.8 | FMS | 209 | 196 | N | 3D9.1C2C9C656F |
| 2/19/2008 | COR | 176.9 | FMS | 246 | 231 | N | 3D9.1C2C9CCF53 |
| 2/19/2008 | COR | 176 | FMS | 227 | 213 | N | 3D9.1C2C9CD01E |
| 2/19/2008 | COR | 176 | FMS | 345 | 324 | N | 3D9.1C2C9C7358 |
| 2/19/2008 | COR | 176 | FMS | 360 | 340 | N | 3D9.1C2C871F4C |
| 2/19/2008 | COR | 176 | FMS | 386 | 364 | N | 3D9.1C2C9C857D |
| 2/19/2008 | COR | 176.1 | FMS | 194 | 181 | N | 3D9.1C2C9C926D |
| 2/19/2008 | COR | 176.1 | FMS | 238 | 222 | N | 3D9.1C2C874143 |
| 2/19/2008 | COR | 176.1 | FMS | 239 | 224 | N | 3D9.1C2C983D91 |
| 2/19/2008 | COR | 176.1 | FMS | 242 | 227 | N | 3D9.1C2C87A323 |
| 2/19/2008 | COR | 176.1 | FMS | 374 | 355 | N | 3D9.1C2C9CE0D2 |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
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| 2/19/2008 | COR | 176.2 | FMS | 223 | 210 | N | 3D9.1C2C9CD264 |
| 2/20/2008 | COR | 181 | FMS | 217 | 202 | N | 3D9.1C2C873169 |
| 2/20/2008 | COR | 182.3 | FMS | 425 | 405 | N | 3D9.1C2C87C385 |
| 2/20/2008 | COR | 181.7 | FMS | 195 | 181 | N | 3D9.1C2C878050 |
| 2/20/2008 | COR | 181.8 | FMS | 238 | 222 | N | 3D9.1C2C9C48FE |
| 2/20/2008 | COR | 182.7 | FMS | 260 | 244 | N | 3D9.1C2C9CDFA8 |
| 2/20/2008 | COR | 182.7 | FMS | 339 | 317 | N | 3D9.1C2C87D2BA |
| 2/20/2008 | COR | 182.7 | FMS | 417 | 396 | N | 3D9.1C2C983F6C |
| 2/20/2008 | COR | 182.2 | FMS | 186 | 173 | N | 3D9.1C2C877D7C |
| 2/20/2008 | COR | 182.2 | FMS | 215 | 200 | N | 3D9.1C2C9DEF06 |
| 2/20/2008 | COR | 182.2 | FMS | 280 | 264 | N | 3D9.1C2C9C8842 |
| 2/20/2008 | COR | 182.2 | FMS | 472 | 445 | N | 3D9.1C2C9C917F |
| 2/20/2008 | COR | 182.3 | FMS | 473 | 443 | N | 3D9.1C2C9E7E6D |
| 2/20/2008 | COR | 183.1 | FMS | 215 | 200 | N | 3D9.1C2C9CDD4E |
| 2/20/2008 | COR | 183.1 | FMS | 226 | 210 | N | 3D9.1C2C87795C |
| 2/20/2008 | COR | 183.2 | FMS | 218 | 205 | N | 3D9.1C2C9CF450 |
| 2/20/2008 | COR | 182.4 | FMS | 250 | 238 | N | 3D9.1C2C9CD7B8 |
| 2/20/2008 | COR | 183.3 | FMS | 225 | 210 | N | 3D9.1C2C9E6B6B |
| 2/20/2008 | COR | 183.3 | FMS | 291 | 279 | N | 3D9.1C2C9E09DF |
| 2/20/2008 | COR | 182.6 | FMS | 249 | 232 | N | 3D9.1C2C9E7ECD |
| 2/20/2008 | COR | 183.4 | FMS | 232 | 217 | N | 3D9.1C2C9C6DB3 |
| 2/20/2008 | COR | 183.4 | FMS | 365 | 350 | N | 3D9.1C2C9E67FC |
| 2/21/2008 | COR | 190.2 | FMS | 157 | 146 | N | 3D9.1C2C9E165A |
| 2/21/2008 | COR | 191.5 | FMS | 177 | 167 | N | 3D9.1C2C87D966 |
| 2/21/2008 | COR | 191.7 | FMS | 269 | 255 | N | 3D9.1C2C87D7CF |
| 2/21/2008 | COR | 192.2 | FMS | 289 | 274 | N | 3D9.1C2C878C6F |
| 2/21/2008 | COR | 192.7 | FMS | 162 | 153 | N | 3D9.1C2C9CDA9A |
| 2/21/2008 | COR | 192.8 | FMS | 459 | 437 | N | 3D9.1C2C9E7202 |
| 2/24/2008 | COR | 222.2 | FMS | 272 | 255 | N | 3D9.1C2C9C65DB |
| 2/24/2008 | COR | 221.4 | FMS | 205 | 195 | N | 3D9.1C2C9CE139 |
| 3/27/2008 | COR | 19.4 | FMS | 402 | 382 | N | 3D9.1C2C9CD5A8 |
| 3/28/2008 | COR | 34.5 | FMS | 380 | 360 | N | 3D9.1C2C9E6FA1 |
| 3/28/2008 | COR | 34.5 | FMS | 425 | 395 | N | 3D9.1C2C8E769B |
| 3/29/2008 | COR | 35.3 | FMS | 343 | 325 | N | 3D9.1C2C9CA066 |
| 3/29/2008 | COR | 57.2 | FMS | 426 | 404 | N | 3D9.1C2C9DFD30 |
| 3/29/2008 | COR | 57.2 | FMS | 443 | 421 | N | 3D9.1C2C9E7DC4 |
| 3/29/2008 | COR | 57.2 | FMS | 458 | 431 | N | 3D9.1C2C87485C |

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| 3/29/2008 | COR | 57.4 | FMS | 428 | 401 | N | 3D9.1C2C879BED |
| 3/29/2008 | COR | 57.5 | FMS | 193 | 178 | N | 3D9.1BF210EEC0 |
| 3/29/2008 | COR | 58.4 | FMS | 310 | 295 | N | 3D9.1C2C8E74ED |
| 3/29/2008 | COR | 58.5 | FMS | 386 | 369 | N | 3D9.1C2C9DC98A |
| 3/29/2008 | COR | 58.6 | FMS | 292 | 278 | N | 3D9.1C2C9CD45F |
| 3/29/2008 | COR | 57.9 | FMS | 343 | 327 | N | 3D9.1C2C9DDF1A |
| 3/29/2008 | COR | 58.7 | FMS | 373 | 354 | N | 3D9.1C2C8728CF |
| 3/29/2008 | COR | 58.2 | FMS | 344 | 328 | N | 3D9.1C2C9C8FE2 |
| 3/29/2008 | COR | 58.2 | FMS | 414 | 395 | N | 3D9.1C2C87C961 |
| 3/31/2008 | COR | 62 | FMS | 343 | 326 | N | 3D9.1C2C879DE2 |
| 3/31/2008 | COR | 61.3 | FMS | 155 | 145 | N | 3D9.1C2C9CDBE7 |
| 3/31/2008 | COR | 61.3 | FMS | 167 | 155 | N | 3D9.1C2C9C8DC4 |
| 3/31/2008 | COR | 61.4 | FMS | 154 | 144 | N | 3D9.1C2CA9A5B1 |
| 3/31/2008 | COR | 61.4 | FMS | 185 | 173 | N | 3D9.1C2C9E72EB |
| 3/31/2008 | COR | 61.4 | FMS | 190 | 178 | N | 3D9.1C2C879A7E |
| 3/31/2008 | COR | 61.4 | FMS | 192 | 173 | N | 3D9.1C2C9CDC36 |
| 3/31/2008 | COR | 61.4 | FMS | 211 | 198 | N | 3D9.1C2C87779B |
| 3/31/2008 | COR | 62.4 | FMS | 335 | 316 | N | 3D9.1C2C872AF1 |
| 3/31/2008 | COR | 62.5 | FMS | 250 | 236 | N | 3D9.1C2C878754 |
| 3/31/2008 | COR | 62.5 | FMS | 256 | 239 | N | 3D9.1C2C9C5858 |
| 3/31/2008 | COR | 61.7 | FMS | 287 | 269 | N | 3D9.1C2C9E6B45 |
| 3/31/2008 | COR | 61.7 | FMS | 312 | 295 | N | 3D9.1C2C9C6681 |
| 3/31/2008 | COR | 61.7 | FMS | 397 | 378 | N | 3D9.1C2C8725D9 |
| 3/31/2008 | COR | 61.9 | FMS | 358 | 338 | N | 3D9.1C2C9E7DD9 |
| 3/31/2008 | COR | 62.6 | FMS | 200 | 183 | N | 3D9.1C2C874696 |
| 4/1/2008 | COR | 65.8 | FMS | 159 | 148 | N | 3D9.1C2C97EDD9 |
| 4/1/2008 | COR | 67 | FMS | 383 | 366 | N | 3D9.1C2C8721BB |
| 4/2/2008 | COR | 71.5 | FMS | 349 | 333 | N | 3D9.1C2C984278 |
| 4/2/2008 | COR | 72 | FMS | 157 | 150 | N | 3D9.1C2C9CCE4A |
| 4/2/2008 | COR | 72 | FMS | 180 | 169 | N | 3D9.1C2C8795F7 |
| 4/2/2008 | COR | 72 | FMS | 356 | 337 | N | 3D9.1C2C9E5735 |
| 4/2/2008 | COR | 72 | FMS | 360 | 343 | N | 3D9.1C2C9C9A0D |
| 4/3/2008 | COR | 81.1 | FMS | 253 | 239 | N | 3D9.1C2C8E625C |
| 4/4/2008 | COR | 83.5 | FMS | 273 | 258 | N | 3D9.1C2CA9701D |
| 4/4/2008 | COR | 83.5 | FMS | 327 | 309 | N | 3D9.1C2C98ADA5 |
| 4/5/2008 | COR | 86.7 | FMS | 227 | 214 | N | 3D9.1C2C9CB2E0 |
| 4/5/2008 | COR | 86.9 | FMS | 505 | 482 | N | 3D9.1C2C9CDD98 |

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| 4/6/2008 | COR | 92.5 | FMS | 220 | 206 | N | 3D9.1C2C989624 |
| 4/6/2008 | COR | 92.1 | FMS | 215 | 200 | N | 3D9.1C2C87D0F5 |
| 4/6/2008 | COR | 92.1 | FMS | 362 | 343 | N | 3D9.1C2C9E7C43 |
| 4/6/2008 | COR | 92.1 | FMS | 393 | 373 | N | 3D9.1C2C9CA2DB |
| 4/7/2008 | COR | 113.8 | FMS | 360 | 340 | N | 3D9.1C2C873C0C |
| 4/7/2008 | COR | 113.9 | FMS | 184 | 172 | N | 3D9.1C2C87C5EB |
| 4/7/2008 | COR | 113.9 | FMS | 280 | 267 | N | 3D9.1C2C9E6EFD |
| 4/7/2008 | COR | 114.6 | FMS | 162 | 154 | N | 3D9.1C2C9C9A3A |
| 4/7/2008 | COR | 114.4 | FMS | 174 | 162 | N | 3D9.1C2C8740F7 |
| 4/7/2008 | COR | 114.4 | FMS | 189 | 177 | N | 3D9.1C2C9CE455 |
| 4/7/2008 | COR | 114.4 | FMS | 191 | 184 | N | 3D9.1C2C9CA5C3 |
| 4/7/2008 | COR | 114.4 | FMS | 205 | 196 | N | 3D9.1C2C9CCE3C |
| 4/7/2008 | COR | 114.4 | FMS | 300 | 282 | N | 3D9.1C2C97EDA3 |
| 4/7/2008 | COR | 114.4 | FMS | 364 | 347 | N | 3D9.1C2C9C674C |
| 4/7/2008 | COR | 114.9 | FMS | 177 | 168 | N | 3D9.1C2C9C7E54 |
| 4/7/2008 | COR | 115 | FMS | 177 | 168 | N | 3D9.1C2C9E2367 |
| 4/7/2008 | COR | 114.7 | FMS | 229 | 217 | N | 3D9.1C2C9E7485 |
| 4/7/2008 | COR | 115.2 | FMS | 274 | 258 | N | 3D9.1C2C9C6B54 |
| 4/7/2008 | COR | 115.3 | FMS | 197 | 187 | N | 3D9.1C2C9C6302 |
| 4/7/2008 | COR | 115.4 | FMS | 175 | 165 | N | 3D9.1BF2560567 |
| 4/7/2008 | COR | 115.4 | FMS | 193 | 183 | N | 3D9.1C2C9CBAA2 |
| 4/7/2008 | COR | 115.4 | FMS | 235 | 223 | N | 3D9.1C2C9E5C9E |
| 4/8/2008 | COR | 119 | FMS | 200 | 186 | N | 3D9.1BF2539630 |
| 4/8/2008 | COR | 119.1 | FMS | 233 | 218 | N | 3D9.1C2C8E761A |
| 4/8/2008 | COR | 119.2 | FMS | 197 | 185 | N | 3D9.1BF252FF34 |
| 4/8/2008 | COR | 119.7 | FMS | 205 | 191 | N | 3D9.1C2C9CA67D |
| 4/8/2008 | COR | 119.7 | FMS | 223 | 202 | N | 3D9.1C2C9DDB3D |
| 4/8/2008 | COR | 119.7 | FMS | 232 | 216 | N | 3D9.1C2C981DBE |
| 4/8/2008 | COR | 119.8 | FMS | 155 | 144 | N | 3D9.1C2C97E87F |
| 4/8/2008 | COR | 119.8 | FMS | 176 | 164 | N | 3D9.1C2C9CC22B |
| 4/8/2008 | COR | 119.8 | FMS | 224 | 210 | N | 3D9.1C2C87B0B3 |
| 4/8/2008 | COR | 119.7 | FMS | 255 | 240 | N | 3D9.1BF253032E |
| 4/8/2008 | COR | 119.9 | FMS | 217 | 202 | N | 3D9.1C2C87D99E |
| 4/8/2008 | COR | 120 | FMS | 203 | 187 | N | 3D9.1C2C9CC1A2 |
| 4/8/2008 | COR | 119.8 | FMS | 214 | 202 | N | 3D9.1BF25608DB |
| 4/8/2008 | COR | 119.8 | FMS | 225 | 212 | N | 3D9.1BF2531D95 |
| 4/8/2008 | COR | 119.8 | FMS | 227 | 214 | N | 3D9.1BF25612A6 |

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| 4/8/2008 | COR | 119.8 | FMS | 230 | 218 | N | 3D9.1BF2561A53 |
| 4/8/2008 | COR | 119.8 | FMS | 242 | 228 | N | 3D9.1BF2562F2B |
| 4/8/2008 | COR | 119.8 | FMS | 310 | 296 | N | 3D9.1BF252F6C3 |
| 4/8/2008 | COR | 120.1 | FMS | 203 | 196 | N | 3D9.1C2C9C8991 |
| 4/8/2008 | COR | 120.2 | FMS | 180 | 167 | N | 3D9.1C2CA9B21D |
| 4/8/2008 | COR | 120.2 | FMS | 195 | 182 | N | 3D9.1C2C87294B |
| 4/8/2008 | COR | 120.2 | FMS | 208 | 192 | N | 3D9.1C2C9E7376 |
| 4/8/2008 | COR | 120.2 | FMS | 213 | 201 | N | 3D9.1C2C9E7510 |
| 4/8/2008 | COR | 120.2 | FMS | 215 | 201 | N | 3D9.1C2C9C6C09 |
| 4/8/2008 | COR | 120.2 | FMS | 236 | 221 | N | 3D9.1C2C9DE3F6 |
| 4/8/2008 | COR | 119.9 | FMS | 220 | 207 | N | 3D9.1BF2532128 |
| 4/8/2008 | COR | 120 | FMS | 175 | 164 | N | 3D9.1BF2560CB6 |
| 4/8/2008 | COR | 120.4 | FMS | 198 | 185 | N | 3D9.1C2C985754 |
| 4/8/2008 | COR | 120.4 | FMS | 267 | 250 | N | 3D9.1C2C981DE4 |
| 4/8/2008 | COR | 120.5 | FMS | 191 | 177 | N | 3D9.1C2CA97D6C |
| 4/8/2008 | COR | 120.5 | FMS | 207 | 195 | N | 3D9.1C2C9E6017 |
| 4/8/2008 | COR | 120.7 | FMS | 207 | 192 | N | 3D9.1C2C9E6FE0 |
| 4/8/2008 | COR | 120.7 | FMS | 212 | 197 | N | 3D9.1C2C8729C5 |
| 4/8/2008 | COR | 120.4 | FMS | 172 | 160 | N | 3D9.1BF2562A61 |
| 4/8/2008 | COR | 120.4 | FMS | 180 | 168 | N | 3D9.1BF255F87C |
| 4/8/2008 | COR | 120.4 | FMS | 193 | 180 | N | 3D9.1BF252F599 |
| 4/8/2008 | COR | 120.4 | FMS | 205 | 195 | N | 3D9.1BF255FFB8 |
| 4/8/2008 | COR | 120.4 | FMS | 225 | 210 | N | 3D9.1BF255F983 |
| 4/8/2008 | COR | 120.8 | FMS | 168 | 155 | N | 3D9.1C2C9DD8E1 |
| 4/8/2008 | COR | 120.8 | FMS | 175 | 162 | N | 3D9.1C2C97ED74 |
| 4/8/2008 | COR | 120.8 | FMS | 189 | 176 | N | 3D9.1C2C9C891E |
| 4/8/2008 | COR | 120.8 | FMS | 205 | 190 | N | 3D9.1C2C9C6D92 |
| 4/8/2008 | COR | 120.8 | FMS | 208 | 194 | N | 3D9.1C2C9CDA3B |
| 4/8/2008 | COR | 120.8 | FMS | 223 | 208 | N | 3D9.1C2C87759B |
| 4/8/2008 | COR | 120.8 | FMS | 226 | 212 | N | 3D9.1C2C872055 |
| 4/8/2008 | COR | 120.5 | FMS | 175 | 164 | N | 3D9.1BF256183D |
| 4/8/2008 | COR | 120.5 | FMS | 213 | 200 | N | 3D9.1BF2562F28 |
| 4/8/2008 | COR | 120.5 | FMS | 220 | 185 | N | 3D9.1BF256052C |
| 4/8/2008 | COR | 120.5 | FMS | 238 | 224 | N | 3D9.1BF2560CCB |
| 4/8/2008 | COR | 120.6 | FMS | 180 | 170 | N | 3D9.1BF255F8FD |
| 4/8/2008 | COR | 120.7 | FMS | 202 | 194 | N | 3D9.1BF2560E1F |
| 4/8/2008 | COR | 120.8 | FMS | 182 | 171 | N | 3D9.1BF25380BD |

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| 4/8/2008 | COR | 120.8 | FMS | 229 | 215 | N | 3D9.1BF2562B51 |
| 4/8/2008 | COR | 120.8 | FMS | 254 | 239 | N | 3D9.1BF2572916 |
| 4/8/2008 | COR | 120.8 | FMS | 270 | 256 | N | 3D9.1BF25610A9 |
| 4/8/2008 | COR | 120.8 | FMS | 322 | 303 | N | 3D9.1BF253065F |
| 4/8/2008 | COR | 120.8 | FMS | 336 | 316 | N | 3D9.1BF25637F7 |
| 4/8/2008 | COR | 120.8 | FMS | 384 | 364 | N | 3D9.1BF25605F0 |
| 4/9/2008 | COR | 134.9 | FMS | 335 | 320 | N | 3D9.1BF2538DED |
| 4/9/2008 | COR | 135.5 | FMS | 485 | 464 | N | 3D9.1BF25635B8 |
| 4/9/2008 | COR | 135.8 | FMS | 217 | 206 | N | 3D9.1BF255FD18 |
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| 4/9/2008 | COR | 137.1 | FMS | 213 | 203 | N | 3D9.1C2C9E7121 |
| 4/9/2008 | COR | 137.2 | FMS | 163 | 154 | N | 3D9.1C2C97F65C |
| 4/9/2008 | COR | 137.2 | FMS | 239 | 228 | N | 3D9.1C2C9CE198 |
| 4/9/2008 | COR | 135.9 | FMS | 210 | 200 | N | 3D9.1BF2560F9E |
| 4/9/2008 | COR | 135.9 | FMS | 228 | 215 | N | 3D9.1BF2560122 |
| 4/9/2008 | COR | 136.2 | FMS | 194 | 187 | N | 3D9.1BF256148C |
| 4/9/2008 | COR | 136.2 | FMS | 241 | 225 | N | 3D9.1BF2561717 |
| 4/9/2008 | COR | 136.5 | FMS | 208 | 195 | N | 3D9.1BF253286E |
| 4/9/2008 | COR | 136.5 | FMS | 227 | 215 | N | 3D9.1BF256065F |
| 4/9/2008 | COR | 136.6 | FMS | 216 | 207 | N | 3D9.1BF25631AD |
| 4/9/2008 | COR | 136.7 | FMS | 196 | 185 | N | 3D9.1BF2572576 |
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| 4/9/2008 | COR | 136.7 | FMS | 329 | 313 | N | 3D9.1BF2560CF6 |
| 4/10/2008 | COR | 145.5 | FMS | 205 | 191 | N | 3D9.1BF256045D |
| 4/10/2008 | COR | 145.6 | FMS | 209 | 193 | N | 3D9.1BF2561936 |
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| 4/10/2008 | COR | 145.7 | FMS | 156 | 147 | N | 3D9.1BF2571722 |
| 4/10/2008 | COR | 145.7 | FMS | 226 | 212 | N | 3D9.1BF25615D6 |
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| 4/10/2008 | COR | 146.2 | FMS | 193 | 179 | N | 3D9.1BF255FE61 |
| 4/10/2008 | COR | 146.2 | FMS | 439 | 417 | N | 3D9.1BF2572DF4 |
| 4/10/2008 | COR | 146.2 | FMS | 494 | 473 | N | 3D9.1BF25305BB |
| 4/10/2008 | COR | 146.6 | FMS | 200 | 188 | N | 3D9.1C2C87C7EF |
| 4/10/2008 | COR | 146.4 | FMS | 171 | 160 | N | 3D9.1BF2563033 |

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| 4/10/2008 | COR | 146.8 | FMS | 190 | 180 | N | 3D9.1C2CA99F6C |
| 4/10/2008 | COR | 146.8 | FMS | 234 | 220 | N | 3D9.1C2C988C6C |
| 4/10/2008 | COR | 146.8 | FMS | 322 | 305 | N | 3D9.1C2CA9A4D4 |
| 4/10/2008 | COR | 147 | FMS | 334 | 319 | N | 3D9.1C2C984440 |
| 4/10/2008 | COR | 146.7 | FMS | 193 | 178 | N | 3D9.1BF2562C4A |
| 4/10/2008 | COR | 146.7 | FMS | 200 | 186 | N | 3D9.1BF2560972 |
| 4/10/2008 | COR | 147.1 | FMS | 183 | 175 | N | 3D9.1C2CA970CC |
| 4/10/2008 | COR | 147.1 | FMS | 217 | 202 | N | 3D9.1C2C981EC4 |
| 4/10/2008 | COR | 147.1 | FMS | 220 | 210 | N | 3D9.1C2C87D070 |
| 4/10/2008 | COR | 146.8 | FMS | 189 | 177 | N | 3D9.1BF2561A52 |
| 4/10/2008 | COR | 146.8 | FMS | 208 | 195 | N | 3D9.1BF25621DE |
| 4/10/2008 | COR | 146.8 | FMS | 221 | 206 | N | 3D9.1BF2560928 |
| 4/10/2008 | COR | 147.2 | FMS | 185 | 175 | N | 3D9.1C2C9C7CF6 |
| 4/10/2008 | COR | 146.1 | FMS | 181 | 169 | N | 3D9.1BF2562DAE |
| 4/11/2008 | COR | 175.2 | FMS | 253 | 233 | N | 3D9.1C2C87D26D |
| 4/11/2008 | COR | 174.6 | FMS | 296 | 275 | N | 3D9.1BF255FBF4 |
| 4/11/2008 | COR | 175.4 | FMS | 177 | 164 | N | 3D9.1C2C9CF5C4 |
| 4/11/2008 | COR | 175.4 | FMS | 215 | 200 | N | 3D9.1C2C9CF46C |
| 4/11/2008 | COR | 175.4 | FMS | 310 | 293 | N | 3D9.1C2C9CA2EC |
| 4/11/2008 | COR | 174.4 | FMS | 165 | 156 | N | 3D9.1BF256209A |
| 4/11/2008 | COR | 174.4 | FMS | 204 | 191 | N | 3D9.1BF255FDE0 |
| 4/11/2008 | COR | 174.4 | FMS | 226 | 214 | N | 3D9.1BF25628EA |
| 4/11/2008 | COR | 174.4 | FMS | 399 | 376 | N | 3D9.1BF2560D9A |
| 4/11/2008 | COR | 175.6 | FMS | 401 | 381 | N | 3D9.1C2CA82820 |
| 4/11/2008 | COR | 175.7 | FMS | 212 | 195 | N | 3D9.1C2C9CCECC |
| 4/11/2008 | COR | 175.7 | FMS | 217 | 201 | N | 3D9.1C2C9C63C8 |
| 4/11/2008 | COR | 174.6 | FMS | 188 | 177 | N | 3D9.1BF2560734 |
| 4/11/2008 | COR | 174.6 | FMS | 195 | 181 | N | 3D9.1BF256160A |
| 4/11/2008 | COR | 174.6 | FMS | 205 | 194 | N | 3D9.1BF255FDDF |
| 4/11/2008 | COR | 174.6 | FMS | 216 | 204 | N | 3D9.1BF2561564 |
| 4/11/2008 | COR | 174.6 | FMS | 224 | 213 | N | 3D9.1BF257191D |
| 4/11/2008 | COR | 174.6 | FMS | 366 | 346 | N | 3D9.1BF253100C |
| 4/11/2008 | COR | 174.6 | FMS | 380 | 360 | N | 3D9.1BF2560956 |
| 4/11/2008 | COR | 174.6 | FMS | 382 | 365 | N | 3D9.1BF256122C |
| 4/11/2008 | COR | 174.6 | FMS | 486 | 460 | N | 3D9.1BF256018B |
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| 4/11/2008 | COR | 176.1 | FMS | 224 | 208 | N | 3D9.1C2C9C8A61 |
| 4/11/2008 | COR | 176.1 | FMS | 305 | 288 | N | 3D9.1C2C9CC3F8 |
| 4/11/2008 | COR | 174.7 | FMS | 161 | 152 | N | 3D9.1BF2563432 |
| 4/11/2008 | COR | 176.2 | FMS | 157 | 145 | N | 3D9.1C2C9C8732 |
| 4/11/2008 | COR | 176.2 | FMS | 184 | 170 | N | 3D9.1C2C8E77F7 |
| 4/11/2008 | COR | 176.2 | FMS | 205 | 192 | N | 3D9.1C2C877B7D |
| 4/11/2008 | COR | 176.2 | FMS | 216 | 202 | N | 3D9.1C2C874855 |
| 4/11/2008 | COR | 176.2 | FMS | 226 | 210 | N | 3D9.1C2C984279 |
| 4/11/2008 | COR | 176.2 | FMS | 232 | 217 | N | 3D9.1C2C9C89DC |
| 4/11/2008 | COR | 176.2 | FMS | 279 | 259 | N | 3D9.1C2C981D49 |
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| 4/11/2008 | COR | 176.3 | FMS | 202 | 187 | N | 3D9.1C2C9CDB5B |
| 4/11/2008 | COR | 176.3 | FMS | 218 | 202 | N | 3D9.1C2C989805 |
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| 4/11/2008 | COR | 176.3 | FMS | 241 | 224 | N | 3D9.1C2C9CD758 |
| 4/11/2008 | COR | 176.3 | FMS | 254 | 236 | N | 3D9.1C2C9CDDFB |
| 4/11/2008 | COR | 175.1 | FMS | 153 | 145 | N | 3D9.1BF256250B |
| 4/11/2008 | COR | 175.1 | FMS | 189 | 178 | N | 3D9.1BF255FB66 |
| 4/11/2008 | COR | 175.1 | FMS | 227 | 215 | N | 3D9.1BF25606F6 |
| 4/11/2008 | COR | 176.4 | FMS | 194 | 182 | N | 3D9.1C2C9C6662 |
| 4/11/2008 | COR | 176.4 | FMS | 344 | 322 | N | 3D9.1C2C97F626 |
| 4/11/2008 | COR | 175.2 | FMS | 193 | 181 | N | 3D9.1BF2562E34 |
| 4/11/2008 | COR | 176.6 | FMS | 192 | 179 | N | 3D9.1C2C9E6FD4 |
| 4/11/2008 | COR | 176.7 | FMS | 158 | 146 | N | 3D9.1C2C9C9711 |
| 4/11/2008 | COR | 175.4 | FMS | 177 | 165 | N | 3D9.1BF25607C1 |
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| 4/11/2008 | COR | 175.5 | FMS | 356 | 334 | N | 3D9.1BF2532113 |
| 4/11/2008 | COR | 175.6 | FMS | 184 | 174 | N | 3D9.1BF2561AD7 |
| 4/11/2008 | COR | 175.6 | FMS | 225 | 212 | N | 3D9.1BF2561291 |
| 4/11/2008 | COR | 175.6 | FMS | 241 | 229 | N | 3D9.1BF25323DF |
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| 4/11/2008 | COR | 175.8 | FMS | 195 | 181 | N | 3D9.1BF2560809 |

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| 4/11/2008 | COR | 175.9 | FMS | 203 | 188 | N | 3D9.1BF2560751 |
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| 4/12/2008 | COR | 176.1 | FMS | 212 | 200 | N | 3D9.1BF2563326 |
| 4/12/2008 | COR | 176.1 | FMS | 251 | 238 | N | 3D9.1BF256085A |
| 4/12/2008 | COR | 176.2 | FMS | 210 | 195 | N | 3D9.1BF2530317 |
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| 4/12/2008 | COR | 181.1 | FMS | 222 | 207 | N | 3D9.1C2CA7C03E |
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| 4/12/2008 | COR | 181.9 | FMS | 190 | 178 | N | 3D9.1BF2571716 |
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| 4/12/2008 | COR | 182.1 | FMS | 215 | 203 | N | 3D9.1BF25389F5 |
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| 4/12/2008 | COR | 182.2 | FMS | 158 | 148 | N | 3D9.1BF25637FD |
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| 4/12/2008 | COR | 182.8 | FMS | 212 | 200 | N | 3D9.1BF255FD88 |
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| 4/12/2008 | COR | 183.2 | FMS | 176 | 163 | N | 3D9.1C2C872053 |
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| 4/12/2008 | COR | 183.4 | FMS | 245 | 230 | N | 3D9.1BF2562715 |
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| 4/13/2008 | COR | 191.7 | FMS | 150 | 143 | N | 3D9.1C2C9E7C3C |
| 4/13/2008 | COR | 191.7 | FMS | 172 | 163 | N | 3D9.1C2C9C889E |
| 4/13/2008 | COR | 191.7 | FMS | 195 | 182 | N | 3D9.1C2C87CB3D |
| 4/13/2008 | COR | 191.7 | FMS | 272 | 257 | N | 3D9.1C2C87A44C |
| 4/13/2008 | COR | 191.7 | FMS | 281 | 266 | N | 3D9.1C2C87CF04 |
| 4/13/2008 | COR | 191.7 | FMS | 345 | 325 | N | 3D9.1C2C9E7DAC |
| 4/13/2008 | COR | 191.7 | FMS | 365 | 345 | N | 3D9.1C2C9E5C87 |
| 4/13/2008 | COR | 191.7 | FMS | 409 | 390 | N | 3D9.1C2C9CD3F2 |
| 4/13/2008 | COR | 190.4 | FMS | 205 | 190 | N | 3D9.1BF2572EAB |
| 4/13/2008 | COR | 190.4 | FMS | 293 | 274 | N | 3D9.1BF255FBF5 |
| 4/13/2008 | COR | 192.1 | FMS | 275 | 259 | N | 3D9.1C2C877FCA |
| 4/13/2008 | COR | 190.7 | FMS | 277 | 258 | N | 3D9.1BF252FA3B |
| 4/13/2008 | COR | 192.3 | FMS | 256 | 244 | N | 3D9.1C2C87AB6F |
| 4/13/2008 | COR | 190.8 | FMS | 232 | 217 | N | 3D9.1BF25302C1 |

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| 4/13/2008 | COR | 192.7 | FMS | 152 | 142 | N | 3D9.1C2C9CC3C2 |
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| 4/14/2008 | COR | 207.5 | FMS | 354 | 336 | N | 3D9.1BF2562FC2 |
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| 4/15/2008 | COR | 214.6 | FMS | 331 | 313 | N | 3D9.1BF1C5A53E |
| 4/15/2008 | COR | 214.8 | FMS | 290 | 273 | N | 3D9.1BF165ECD5 |
| 4/15/2008 | COR | 214.9 | FMS | 326 | 309 | N | 3D9.1BF1C38DF2 |

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| 4/15/2008 | COR | 214.9 | FMS | 381 | 360 | N | 3D9.1BF1A65B82 |
| 4/16/2008 | COR | 221.1 | FMS | 286 | 270 | N | 3D9.1BF17B3480 |
| 4/16/2008 | COR | 222.4 | FMS | 431 | 403 | N | 3D9.1C2C9CDEA3 |
| 4/16/2008 | COR | 222.5 | FMS | 192 | 177 | N | 3D9.1C2C9E0DAD |
| 4/16/2008 | COR | 221.5 | FMS | 156 | 147 | N | 3D9.1BF1C13740 |
| 4/16/2008 | COR | 222.6 | FMS | 260 | 244 | N | 3D9.1C2C9E6C31 |
| 4/16/2008 | COR | 221.7 | FMS | 302 | 282 | N | 3D9.1BF166EDCB |
| 4/16/2008 | COR | 221.7 | FMS | 330 | 315 | N | 3D9.1BF153931A |
| 4/16/2008 | COR | 221.8 | FMS | 228 | 216 | N | 3D9.1BF1F98A5A |
| 4/16/2008 | COR | 222 | FMS | 157 | 149 | N | 3D9.1BF127376E |
| 4/16/2008 | COR | 222 | FMS | 193 | 181 | N | 3D9.1BF1856412 |
| 4/16/2008 | COR | 222 | FMS | 395 | 375 | N | 3D9.1BF176C222 |
| 4/16/2008 | COR | 222 | FMS | 421 | 394 | N | 3D9.1BF1BC8A1E |
| 4/16/2008 | COR | 222 | FMS | 433 | 408 | N | 3D9.1BF1ADEEEB |
| 4/16/2008 | COR | 222.2 | FMS | 436 | 420 | N | 3D9.1BF1C3C58C |
| 4/16/2008 | COR | 222.3 | FMS | 361 | 344 | N | 3D9.1BF1776476 |
| 4/16/2008 | COR | 222.5 | FMS | 342 | 321 | N | 3D9.1BF169A128 |
| 3/29/2008 | COR | 35.3 | FMS | 322 | 303 | N | 3D9.1C2C9E6861 |
| 2/6/2008 | COR | 35.4 | BHS | 183 | 173 | N | 3D9.1C2C9CC3FC |
| 2/7/2008 | COR | 57.2 | BHS | 229 | 211 | N | 3D9.1C2C9C71C5 |
| 2/7/2008 | COR | 57 | BHS | 299 | 278 | N | 3D9.1C2C9C910E |
| 2/7/2008 | COR | 57 | BHS | 329 | 312 | N | 3D9.1C2C87846D |
| 2/7/2008 | COR | 57 | BHS | 345 | 327 | N | 3D9.1C2C9CA424 |
| 2/7/2008 | COR | 57.8 | BHS | 273 | 258 | N | 3D9.1C2C988DC9 |
| 2/7/2008 | COR | 58 | BHS | 202 | 188 | N | 3D9.1C2C9C728B |
| 2/7/2008 | COR | 58 | BHS | 256 | 240 | N | 3D9.1C2C87852C |
| 2/7/2008 | COR | 58 | BHS | 310 | 294 | N | 3D9.1C2C9C8A68 |
| 2/7/2008 | COR | 58.1 | BHS | 277 | 258 | N | 3D9.1C2C8798AB |
| 2/8/2008 | COR | 62 | BHS | 228 | 212 | N | 3D9.1C2C879611 |
| 2/8/2008 | COR | 62.9 | BHS | 238 | 223 | N | 3D9.1C2C9C6D10 |
| 2/8/2008 | COR | 63.5 | BHS | 262 | 234 | N | 3D9.1C2C9E62C4 |
| 2/9/2008 | COR | 65.7 | BHS | 203 | 191 | N | 3D9.1C2C9C4F70 |
| 2/9/2008 | COR | 66.1 | BHS | 198 | 185 | N | 3D9.1C2C9C925D |
| 2/9/2008 | COR | 66.6 | BHS | 219 | 205 | N | 3D9.1C2C9CE3E3 |
| 2/9/2008 | COR | 66.9 | BHS | 235 | 218 | N | 3D9.1C2C872043 |
| 2/9/2008 | COR | 66.8 | BHS | 251 | 235 | N | 3D9.1C2C9E6B2D |
| 2/9/2008 | COR | 66.9 | BHS | 271 | 254 | N | 3D9.1C2C8784B3 |

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| 2/9/2008 | COR | 67.5 | BHS | 279 | 265 | N | 3D9.1C2C9C99DF |
| 2/9/2008 | COR | 67.7 | BHS | 234 | 215 | N | 3D9.1C2C9CDAA1 |
| 2/10/2008 | COR | 69.5 | BHS | 305 | 286 | N | 3D9.1C2C9E7005 |
| 2/10/2008 | COR | 69.7 | BHS | 267 | 251 | N | 3D9.1C2C9CBC42 |
| 2/10/2008 | COR | 69.7 | BHS | 277 | 257 | N | 3D9.1C2C9845E9 |
| 2/10/2008 | COR | 69.7 | BHS | 278 | 259 | N | 3D9.1C2C9C619B |
| 2/10/2008 | COR | 71.3 | BHS | 156 | 145 | N | 3D9.1C2C9C891C |
| 2/10/2008 | COR | 71.4 | BHS | 238 | 222 | N | 3D9.1C2C87DAA4 |
| 2/10/2008 | COR | 71.4 | BHS | 264 | 246 | N | 3D9.1C2C9CB735 |
| 2/10/2008 | COR | 71.5 | BHS | 241 | 225 | N | 3D9.1C2C9E4FC4 |
| 2/10/2008 | COR | 72 | BHS | 152 | 142 | N | 3D9.1C2C8794C9 |
| 2/10/2008 | COR | 72 | BHS | 152 | 140 | N | 3D9.1C2C87338F |
| 2/10/2008 | COR | 72 | BHS | 175 | 165 | N | 3D9.1C2C8786E2 |
| 2/10/2008 | COR | 72 | BHS | 219 | 202 | N | 3D9.1C2C9C650F |
| 2/10/2008 | COR | 72 | BHS | 232 | 216 | N | 3D9.1C2C9C8CB4 |
| 2/10/2008 | COR | 72 | BHS | 234 | 220 | N | 3D9.1C2C87D617 |
| 2/10/2008 | COR | 72 | BHS | 236 | 221 | N | 3D9.1C2C9C6A2E |
| 2/10/2008 | COR | 72 | BHS | 236 | 221 | N | 3D9.1C2C98990F |
| 2/10/2008 | COR | 72 | BHS | 242 | 226 | N | 3D9.1C2C9C4854 |
| 2/10/2008 | COR | 72 | BHS | 256 | 244 | N | 3D9.1C2C9CD66E |
| 2/10/2008 | COR | 72 | BHS | 257 | 242 | N | 3D9.1C2C9E6E31 |
| 2/10/2008 | COR | 72 | BHS | 274 | 258 | N | 3D9.1C2C9C6BC7 |
| 2/10/2008 | COR | 72.5 | BHS | 222 | 203 | N | 3D9.1C2C9845F0 |
| 2/10/2008 | COR | 72.5 | BHS | 242 | 223 | N | 3D9.1C2CA9B3C5 |
| 2/11/2008 | COR | 80.2 | BHS | 156 | 145 | N | 3D9.1C2C9C8548 |
| 2/18/2008 | COR | 145.8 | BHS | 228 | 216 | N | 3D9.1C2C9C9D79 |
| 2/19/2008 | COR | 176.1 | BHS | 271 | 257 | N | 3D9.1C2C87C783 |
| 2/19/2008 | COR | 176.1 | BHS | 320 | 301 | N | 3D9.1C2C8E78C7 |
| 2/20/2008 | COR | 181.8 | BHS | 279 | 261 | N | 3D9.1C2C9C617D |
| 2/20/2008 | COR | 182.3 | BHS | 234 | 224 | N | 3D9.1C2C87D93D |
| 2/20/2008 | COR | 182.3 | BHS | 273 | 259 | N | 3D9.1C2C9C6106 |
| 3/29/2008 | COR | 57.2 | BHS | 273 | 257 | N | 3D9.1C2C9C4BEF |
| 3/29/2008 | COR | 58.8 | BHS | 280 | 261 | N | 3D9.1C2C9CB737 |
| 3/29/2008 | COR | 58.3 | BHS | 245 | 225 | N | 3D9.1C2C9C82F2 |
| 3/29/2008 | COR | 58.3 | BHS | 252 | 234 | N | 3D9.1C2C9C7719 |
| 3/31/2008 | COR | 62 | BHS | 184 | 173 | N | 3D9.1C2C9CC875 |
| 3/31/2008 | COR | 62 | BHS | 190 | 176 | N | 3D9.1C2C9CE262 |

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| 3/31/2008 | COR | 62 | BHS | 222 | 208 | N | 3D9.1C2C9CE1EF |
| 3/31/2008 | COR | 62 | BHS | 222 | 207 | N | 3D9.1C2C874331 |
| 3/31/2008 | COR | 62 | BHS | 230 | 213 | N | 3D9.1C2C9E7087 |
| 3/31/2008 | COR | 62 | BHS | 231 | 215 | N | 3D9.1C2C9E72DE |
| 3/31/2008 | COR | 62 | BHS | 239 | 224 | N | 3D9.1C2C87330A |
| 3/31/2008 | COR | 62 | BHS | 246 | 232 | N | 3D9.1C2C9C4BF1 |
| 3/31/2008 | COR | 62 | BHS | 248 | 229 | N | 3D9.1C2C9CAC88 |
| 3/31/2008 | COR | 62 | BHS | 252 | 237 | N | 3D9.1C2C9C6934 |
| 3/31/2008 | COR | 62 | BHS | 253 | 234 | N | 3D9.1C2C9CCE22 |
| 3/31/2008 | COR | 62 | BHS | 257 | 240 | N | 3D9.1C2C9CA23D |
| 3/31/2008 | COR | 62 | BHS | 259 | 242 | N | 3D9.1C2C9C7610 |
| 3/31/2008 | COR | 62 | BHS | 276 | 261 | N | 3D9.1C2C9CBC55 |
| 3/31/2008 | COR | 62 | BHS | 284 | 265 | N | 3D9.1C2C9890FC |
| 3/31/2008 | COR | 62 | BHS | 291 | 270 | N | 3D9.1C2C9DC753 |
| 3/31/2008 | COR | 62 | BHS | 304 | 284 | N | 3D9.1C2CA7C242 |
| 3/31/2008 | COR | 61.2 | BHS | 241 | 225 | N | 3D9.1C2CA9ABD6 |
| 3/31/2008 | COR | 62.2 | BHS | 298 | 284 | N | 3D9.1C2C9CDEE6 |
| 3/31/2008 | COR | 61.5 | BHS | 220 | 205 | N | 3D9.1C2C8727D4 |
| 3/31/2008 | COR | 61.5 | BHS | 233 | 219 | N | 3D9.1C2C9C73CB |
| 3/31/2008 | COR | 62.4 | BHS | 251 | 231 | N | 3D9.1C2C9C837F |
| 3/31/2008 | COR | 63 | BHS | 181 | 166 | N | 3D9.1C2C9C4A24 |
| 3/31/2008 | COR | 63 | BHS | 201 | 185 | N | 3D9.1C2C87D0C3 |
| 3/31/2008 | COR | 63.2 | BHS | 214 | 204 | N | 3D9.1C2C9E5E83 |
| 3/31/2008 | COR | 63.7 | BHS | 174 | 160 | N | 3D9.1C2CA9B1F8 |
| 4/1/2008 | COR | 65.9 | BHS | 255 | 235 | N | 3D9.1C2CA9AD39 |
| 4/1/2008 | COR | 67.5 | BHS | 232 | 218 | N | 3D9.1C2C9CA00A |
| 4/1/2008 | COR | 67.5 | BHS | 246 | 229 | N | 3D9.1C2C9CD039 |
| 4/1/2008 | COR | 66.9 | BHS | 223 | 210 | N | 3D9.1C2C9E6F8C |
| 4/1/2008 | COR | 67 | BHS | 235 | 223 | N | 3D9.1C2C9CE4A8 |
| 4/2/2008 | COR | 70.4 | BHS | 235 | 220 | N | 3D9.1C2C8727CD |
| 4/2/2008 | COR | 71.6 | BHS | 214 | 200 | N | 3D9.1C2C9E78DF |
| 4/2/2008 | COR | 70.5 | BHS | 236 | 220 | N | 3D9.1C2C9E6BDA |
| 4/2/2008 | COR | 72 | BHS | 235 | 223 | N | 3D9.1C2C98935B |
| 4/2/2008 | COR | 72 | BHS | 267 | 253 | N | 3D9.1C2C872E10 |
| 4/2/2008 | COR | 72 | BHS | 278 | 265 | N | 3D9.1C2C872FE3 |
| 4/2/2008 | COR | 72.2 | BHS | 227 | 213 | N | 3D9.1C2C8E77E8 |
| 4/2/2008 | COR | 72.3 | BHS | 177 | 165 | N | 3D9.1C2C97F11A |

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| 4/2/2008 | COR | 72.3 | BHS | 182 | 168 | N | 3D9.1C2C9C7E51 |
| 4/2/2008 | COR | 72.5 | BHS | 280 | 258 | N | 3D9.1C2C9CCEAA |
| 4/6/2008 | COR | 91.9 | BHS | 250 | 240 | N | 3D9.1C2C877CB2 |
| 4/7/2008 | COR | 114.5 | BHS | 167 | 155 | N | 3D9.1C2CA9702F |
| 4/7/2008 | COR | 114.8 | BHS | 228 | 214 | N | 3D9.1C2C87BB96 |
| 4/8/2008 | COR | 119 | BHS | 245 | 229 | N | 3D9.1BF255FB87 |
| 4/8/2008 | COR | 119.4 | BHS | 244 | 229 | N | 3D9.1BF2531086 |
| 4/8/2008 | COR | 119.9 | BHS | 172 | 160 | N | 3D9.1C2C9CD813 |
| 4/8/2008 | COR | 120.4 | BHS | 197 | 182 | N | 3D9.1C2C9E6F23 |
| 4/8/2008 | COR | 120.1 | BHS | 235 | 220 | N | 3D9.1BF256148D |
| 4/9/2008 | COR | 135.1 | BHS | 186 | 175 | N | 3D9.1BF253001B |
| 4/9/2008 | COR | 135.7 | BHS | 182 | 169 | N | 3D9.1BF257189D |
| 4/9/2008 | COR | 136.7 | BHS | 157 | 150 | N | 3D9.1BF2563A2F |
| 4/10/2008 | COR | 145.5 | BHS | 186 | 175 | N | 3D9.1C2C872C17 |
| 4/10/2008 | COR | 145.6 | BHS | 167 | 156 | N | 3D9.1C2C87735B |
| 4/10/2008 | COR | 145.7 | BHS | 177 | 164 | N | 3D9.1BF255F945 |
| 4/10/2008 | COR | 146.3 | BHS | 272 | 254 | N | 3D9.1BF25613A7 |
| 4/10/2008 | COR | 146.4 | BHS | 253 | 234 | N | 3D9.1BF25623AC |
| 4/10/2008 | COR | 146.6 | BHS | 241 | 226 | N | 3D9.1BF257324A |
| 4/10/2008 | COR | 146.7 | BHS | 184 | 170 | N | 3D9.1BF2562BD1 |
| 4/10/2008 | COR | 147.3 | BHS | 190 | 176 | N | 3D9.1BF25729FB |
| 4/11/2008 | COR | 175.2 | BHS | 237 | 224 | N | 3D9.1C2CA9A159 |
| 4/11/2008 | COR | 174.4 | BHS | 165 | 154 | N | 3D9.1BF2530830 |
| 4/11/2008 | COR | 175.5 | BHS | 221 | 207 | N | 3D9.1C2C877DDF |
| 4/11/2008 | COR | 175.6 | BHS | 171 | 159 | N | 3D9.1C2C9CDA0E |
| 4/11/2008 | COR | 175.8 | BHS | 179 | 168 | N | 3D9.1C2C871FAF |
| 4/11/2008 | COR | 174.6 | BHS | 156 | 146 | N | 3D9.1BF2562D42 |
| 4/11/2008 | COR | 174.6 | BHS | 176 | 168 | N | 3D9.1BF25613F5 |
| 4/11/2008 | COR | 174.6 | BHS | 250 | 235 | N | 3D9.1BF2561B17 |
| 4/11/2008 | COR | 174.6 | BHS | 362 | 340 | N | 3D9.1BF257205B |
| 4/11/2008 | COR | 175.6 | BHS | 234 | 223 | N | 3D9.1BF2560737 |
| 4/11/2008 | COR | 175.9 | BHS | 190 | 177 | N | 3D9.1BF2562BD6 |
| 4/12/2008 | COR | 181.8 | BHS | 278 | 260 | N | 3D9.1BF2571AF9 |
| 4/12/2008 | COR | 182.1 | BHS | 192 | 184 | N | 3D9.1BF2562490 |
| 4/12/2008 | COR | 182.5 | BHS | 152 | 144 | N | 3D9.1BF25373A6 |
| 4/12/2008 | COR | 182.5 | BHS | 175 | 164 | N | 3D9.1BF2572883 |
| 4/12/2008 | COR | 182.5 | BHS | 195 | 182 | N | 3D9.1BF2561135 |

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| 4/12/2008 | COR | 182.5 | BHS | 245 | 231 | N | 3D9.1BF2560E88 |
| 4/12/2008 | COR | 182.5 | BHS | 254 | 242 | N | 3D9.1BF256040F |
| 4/12/2008 | COR | 182.5 | BHS | 265 | 252 | N | 3D9.1BF2560EB9 |
| 4/12/2008 | COR | 182.3 | BHS | 271 | 256 | N | 3D9.1C2C9C6AB6 |
| 4/12/2008 | COR | 182.4 | BHS | 270 | 255 | N | 3D9.1C2C872010 |
| 4/12/2008 | COR | 182.7 | BHS | 255 | 240 | N | 3D9.1C2C8772A4 |
| 4/12/2008 | COR | 183.2 | BHS | 159 | 146 | N | 3D9.1C2C87CB66 |
| 4/13/2008 | COR | 191.5 | BHS | 222 | 208 | N | 3D9.1C2C9CD4FA |
| 4/13/2008 | COR | 191.5 | BHS | 222 | 208 | N | 3D9.1C2C9CD4FA |
| 4/13/2008 | COR | 191.7 | BHS | 299 | 284 | N | 3D9.1C2C9C6D6A |
| 4/13/2008 | COR | 192 | BHS | 264 | 247 | N | 3D9.1C2C8775D7 |
| 4/13/2008 | COR | 190.7 | BHS | 261 | 244 | N | 3D9.1BF256085C |
| 4/13/2008 | COR | 191.6 | BHS | 200 | 188 | N | 3D9.1BF2560BBE |
| 4/14/2008 | COR | 206.9 | BHS | 296 | 278 | N | 3D9.1C2C9E6ED9 |
| 4/14/2008 | COR | 207.5 | BHS | 330 | 313 | N | 3D9.1C2C9CD8C1 |
| 4/14/2008 | COR | 207.5 | BHS | 277 | 261 | N | 3D9.1BF2561B24 |
| 4/14/2008 | COR | 207.7 | BHS | 285 | 267 | N | 3D9.1BF255F946 |
| 4/15/2008 | COR | 214.5 | BHS | 233 | 217 | N | 3D9.1BF1BC2FDC |
| 4/15/2008 | COR | 214.5 | BHS | 264 | 249 | N | 3D9.1BF165B097 |
| 4/15/2008 | COR | 214.5 | BHS | 270 | 253 | N | 3D9.1BF13AC870 |
| 4/16/2008 | COR | 222 | BHS | 231 | 216 | N | 3D9.1BF1582F9C |
| 4/16/2008 | COR | 222 | BHS | 236 | 223 | N | 3D9.1BF1A99F1A |
| 4/16/2008 | COR | 222 | BHS | 236 | 225 | N | 3D9.1BF1691327 |
| 4/16/2008 | COR | 222.6 | BHS | 185 | 176 | N | 3D9.1BF1BDE8D4 |
| 4/16/2008 | COR | 222.6 | BHS | 241 | 226 | N | 3D9.1BF100F39A |
| 2/8/2008 | COR | 61.3 | HBC | 159 | 139 | N | 3D9.1C2C9C50F2 |
| 3/28/2008 | COR | 34.5 | HBC | 401 | 364 | N | 3D9.1C2C87CEB1 |
| 3/31/2008 | COR | 63 | HBC | 195 | 173 | N | 3D9.1C2C9C620B |
| 3/31/2008 | COR | 63.8 | HBC | 196 | 176 | N | 3D9.1C2C983DAC |
| 2/8/2008 | COR | 62.7 | BNT | 323 | | N | 3D9.1C2C9E72A9 |
| 2/10/2008 | COR | 70.6 | BNT | 344 | | N | 3D9.1C2C9DE9D1 |
| 2/11/2008 | COR | 79.6 | BNT | 252 | | N | 3D9.1C2C878C12 |
| 2/11/2008 | COR | 79.6 | BNT | 279 | | N | 3D9.1C2C9C7FF6 |
| 2/11/2008 | COR | 79.7 | BNT | 224 | | N | 3D9.1C2C877E7C |
| 2/11/2008 | COR | 79.9 | BNT | 217 | | N | 3D9.1C2C9C7423 |
| 2/11/2008 | COR | 80 | BNT | 237 | | N | 3D9.1C2CA7C241 |
| 2/11/2008 | COR | 80.2 | BNT | 275 | | N | 3D9.1C2C9C8CBC |

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| 2/11/2008 | COR | 80.4 | BNT | 241 | | N | 3D9.1C2C9CA674 |
| 2/11/2008 | COR | 80.9 | BNT | 268 | | N | 3D9.1C2C9CDFB3 |
| 2/11/2008 | COR | 81 | BNT | 218 | | N | 3D9.1C2C9E105C |
| 2/12/2008 | COR | 82.9 | BNT | 254 | | N | 3D9.1C2C87D651 |
| 2/12/2008 | COR | 82.6 | BNT | 218 | | N | 3D9.1C2C9C86B7 |
| 2/12/2008 | COR | 82.7 | BNT | 219 | | N | 3D9.1C2C9C6A22 |
| 2/12/2008 | COR | 83.2 | BNT | 238 | | N | 3D9.1C2C97EEF1 |
| 2/12/2008 | COR | 84 | BNT | 223 | | N | 3D9.1C2C9E722D |
| 2/12/2008 | COR | 84 | BNT | 225 | | N | 3D9.1C2C871F5C |
| 2/12/2008 | COR | 83.5 | BNT | 232 | | N | 3D9.1C2C87C7DE |
| 2/12/2008 | COR | 83.9 | BNT | 248 | | N | 3D9.1C2C9C68E6 |
| 2/12/2008 | COR | 84 | BNT | 228 | | N | 3D9.1C2C9CA114 |
| 2/13/2008 | COR | 86.6 | BNT | 235 | | N | 3D9.1C2C871F4A |
| 2/13/2008 | COR | 86.7 | BNT | 227 | | N | 3D9.1C2C9CDAEA |
| 2/13/2008 | COR | 86.7 | BNT | 266 | | N | 3D9.1C2C87C4D8 |
| 2/13/2008 | COR | 86.9 | BNT | 207 | | N | 3D9.1C2C9E77E2 |
| 2/13/2008 | COR | 86.9 | BNT | 215 | | N | 3D9.1C2C9E6A00 |
| 2/13/2008 | COR | 87.1 | BNT | 250 | | N | 3D9.1C2C8733CE |
| 2/13/2008 | COR | 87.3 | BNT | 167 | | N | 3D9.1C2C9CB3E9 |
| 2/13/2008 | COR | 88 | BNT | 209 | | N | 3D9.1C2C9E694B |
| 2/14/2008 | COR | 91.4 | BNT | 229 | | N | 3D9.1C2C878C10 |
| 2/14/2008 | COR | 91.4 | BNT | 239 | | N | 3D9.1C2CA979A3 |
| 2/14/2008 | COR | 91.6 | BNT | 232 | | N | 3D9.1C2C9E6F8F |
| 2/14/2008 | COR | 91.8 | BNT | 211 | | N | 3D9.1C2C9CE338 |
| 2/14/2008 | COR | 91.9 | BNT | 209 | | N | 3D9.1C2C9C6920 |
| 2/14/2008 | COR | 92.2 | BNT | 245 | | N | 3D9.1C2C9CC1A3 |
| 2/14/2008 | COR | 92.3 | BNT | 235 | | N | 3D9.1C2C879A9D |
| 2/14/2008 | COR | 92.7 | BNT | 217 | | N | 3D9.1C2C9890FE |
| 2/17/2008 | COR | 137.3 | BNT | 395 | | N | 3D9.1C2C872281 |
| 2/19/2008 | COR | 175.2 | BNT | 388 | | N | 3D9.1C2C9840CA |
| 3/27/2008 | COR | 18.1 | BNT | 375 | | N | 3D9.1C2C9C9ABC |
| 3/28/2008 | COR | 32.9 | BNT | 481 | | N | 3D9.1C2C9C7344 |
| 4/3/2008 | COR | 79.6 | BNT | 249 | | N | 3D9.1C2C9C7219 |
| 4/3/2008 | COR | 81 | BNT | 264 | | N | 3D9.1C2C9C97BC |
| 4/4/2008 | COR | 82.6 | BNT | 206 | | N | 3D9.1C2C8E6A25 |
| 4/4/2008 | COR | 82.7 | BNT | 226 | | N | 3D9.1C2C873198 |
| 4/4/2008 | COR | 82.7 | BNT | 215 | | N | 3D9.1C2C97E4C3 |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
|---|---|---|---|---|---|---|---|
| 4/4/2008 | COR | 82.7 | BNT | 237 | | N | 3D9.1C2C9E7C0D |
| 4/4/2008 | COR | 82.9 | BNT | 219 | | N | 3D9.1C2C9C9B92 |
| 4/4/2008 | COR | 82.8 | BNT | 238 | | N | 3D9.1C2C9C8526 |
| 4/4/2008 | COR | 83.1 | BNT | 209 | | N | 3D9.1C2C9CB6C8 |
| 4/4/2008 | COR | 83 | BNT | 210 | | N | 3D9.1C2C8721C8 |
| 4/4/2008 | COR | 83.4 | BNT | 247 | | N | 3D9.1C2C9E5FE9 |
| 4/4/2008 | COR | 83.1 | BNT | 210 | | N | 3D9.1C2C9CA6C7 |
| 4/4/2008 | COR | 83.6 | BNT | 227 | | N | 3D9.1C2C97E4BA |
| 4/4/2008 | COR | 83.2 | BNT | 217 | | N | 3D9.1C2C9C730F |
| 4/4/2008 | COR | 83.2 | BNT | 239 | | N | 3D9.1C2C9E71F1 |
| 4/4/2008 | COR | 83.2 | BNT | 246 | | N | 3D9.1C2C9C8807 |
| 4/4/2008 | COR | 84 | BNT | 243 | | N | 3D9.1C2C8778C6 |
| 4/4/2008 | COR | 84 | BNT | 258 | | N | 3D9.1C2C9CC049 |
| 4/4/2008 | COR | 83.5 | BNT | 237 | | N | 3D9.1C2C9CD632 |
| 4/4/2008 | COR | 83.6 | BNT | 239 | | N | 3D9.1C2C873259 |
| 4/5/2008 | COR | 86.5 | BNT | 222 | | N | 3D9.1C2C9C6D55 |
| 4/5/2008 | COR | 86.5 | BNT | 236 | | N | 3D9.1C2C9CE448 |
| 4/5/2008 | COR | 86.5 | BNT | 258 | | N | 3D9.1C2C988F2E |
| 4/5/2008 | COR | 86.7 | BNT | 208 | | N | 3D9.1C2C97F310 |
| 4/5/2008 | COR | 86.8 | BNT | 227 | | N | 3D9.1C2C9E68CB |
| 4/5/2008 | COR | 87.1 | BNT | 227 | | N | 3D9.1C2C9E5AA7 |
| 4/5/2008 | COR | 87.3 | BNT | 231 | | N | 3D9.1C2C9CD619 |
| 4/5/2008 | COR | 87.3 | BNT | 231 | | N | 3D9.1C2C9E6AD1 |
| 4/5/2008 | COR | 87.9 | BNT | 214 | | N | 3D9.1C2C9CCFF1 |
| 4/5/2008 | COR | 87.9 | BNT | 216 | | N | 3D9.1C2C8E1702 |
| 4/5/2008 | COR | 87.4 | BNT | 215 | | N | 3D9.1C2C9DFD4F |
| 4/5/2008 | COR | 87.4 | BNT | 221 | | N | 3D9.1C2C87727C |
| 4/6/2008 | COR | 91.2 | BNT | 357 | | N | 3D9.1C2C9C73DA |
| 4/6/2008 | COR | 91.3 | BNT | 218 | | N | 3D9.1C2C983B3F |
| 4/6/2008 | COR | 91.4 | BNT | 402 | | N | 3D9.1C2C9E77AA |
| 4/6/2008 | COR | 91.7 | BNT | 223 | | N | 3D9.1C2C9C7F1B |
| 4/6/2008 | COR | 92.7 | BNT | 229 | | N | 3D9.1C2C9C6FC9 |
| 4/6/2008 | COR | 92.2 | BNT | 214 | | N | 3D9.1C2C9C92A6 |
| 4/6/2008 | COR | 92.2 | BNT | 217 | | N | 3D9.1C2C879D65 |
| 4/6/2008 | COR | 92.4 | BNT | 232 | | N | 3D9.1C2C87250E |
| 4/8/2008 | COR | 119.7 | BNT | 305 | | N | 3D9.1BF255FED1 |
| 4/9/2008 | COR | 135.4 | BNT | 375 | | N | 3D9.1BF25600A9 |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
|---|---|---|---|---|---|---|---|
| 4/12/2008 | COR | 181.8 | BNT | 409 | | N | 3D9.1BF255FEDD |
| 4/16/2008 | COR | 221.7 | BNT | 211 | | N | 3D9.1BF1614D74 |
| 2/7/2008 | COR | 56.6 | CRP | 329 | | N | USGS 14526 |
| 2/8/2008 | COR | 62 | CRP | 372 | | N | USGS 14529 |
| 2/8/2008 | COR | 62 | CRP | 440 | | N | USGS 14527 |
| 2/8/2008 | COR | 62 | CRP | 480 | | N | USGS 14528 |
| 2/8/2008 | COR | 61.3 | CRP | 412 | | N | USGS 14350 |
| 2/8/2008 | COR | 61.4 | CRP | 486 | | N | USGS 14349 |
| 2/8/2008 | COR | 62.1 | CRP | 377 | | N | USGS 14530 |
| 2/8/2008 | COR | 62.3 | CRP | 304 | | N | USGS 14533 |
| 2/8/2008 | COR | 62.3 | CRP | 410 | | N | USGS 14532 |
| 2/8/2008 | COR | 62.3 | CRP | 495 | | N | USGS 14531 |
| 2/8/2008 | COR | 62.4 | CRP | 268 | | N | USGS 14534 |
| 2/8/2008 | COR | 62.4 | CRP | 345 | | N | USGS 14539 |
| 2/8/2008 | COR | 62.4 | CRP | 393 | | N | USGS 14537 |
| 2/8/2008 | COR | 62.4 | CRP | 404 | | N | USGS 14541 |
| 2/8/2008 | COR | 62.4 | CRP | 408 | | N | USGS 14538 |
| 2/8/2008 | COR | 62.4 | CRP | 438 | | N | USGS 14540 |
| 2/8/2008 | COR | 62.4 | CRP | 483 | | N | USGS 14542 |
| 2/8/2008 | COR | 62 | CRP | 200 | | N | USGS 14337 |
| 2/8/2008 | COR | 62 | CRP | 304 | | N | USGS 14344 |
| 2/8/2008 | COR | 62 | CRP | 339 | | N | USGS14345 |
| 2/8/2008 | COR | 62 | CRP | 344 | | N | USGS 14342 |
| 2/8/2008 | COR | 62 | CRP | 356 | | N | USGS 14339 |
| 2/8/2008 | COR | 62 | CRP | 362 | | N | USGS 14346 |
| 2/8/2008 | COR | 62 | CRP | 404 | | N | USGS 14348 |
| 2/8/2008 | COR | 62 | CRP | 406 | | N | USGS 14341 |
| 2/8/2008 | COR | 62 | CRP | 436 | | N | USGS 14340 |
| 2/8/2008 | COR | 62 | CRP | 439 | | N | USGS 14338 |
| 2/8/2008 | COR | 62 | CRP | 475 | | N | USGS 14347 |
| 2/8/2008 | COR | 62 | CRP | 532 | | N | USGS 14343 |
| 2/8/2008 | COR | 62.5 | CRP | 310 | | N | USGS 14543 |
| 2/8/2008 | COR | 62.5 | CRP | 322 | | N | USGS 14544 |
| 2/8/2008 | COR | 62.5 | CRP | 358 | | N | USGS 14545 |
| 2/8/2008 | COR | 62.7 | CRP | 365 | | N | USGS 14549 |
| 2/8/2008 | COR | 62.7 | CRP | 373 | | N | USGS 14548 |
| 2/8/2008 | COR | 62.7 | CRP | 402 | | N | USGS 14546 |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
|---|---|---|---|---|---|---|---|
| 2/8/2008 | COR | 62.7 | CRP | 415 | | N | USGS 14547 |
| 2/8/2008 | COR | 62.5 | CRP | 294 | | N | USGS 14336 |
| 2/8/2008 | COR | 62.6 | CRP | 355 | | N | USGS 14334 |
| 2/8/2008 | COR | 62.6 | CRP | 420 | | N | USGS 14333 |
| 2/8/2008 | COR | 62.6 | CRP | 425 | | N | USGS 14335 |
| 2/8/2008 | COR | 62.6 | CRP | 506 | | N | USGS 14332 |
| 2/8/2008 | COR | 62.8 | CRP | 319 | | N | USGS 14576 |
| 2/8/2008 | COR | 62.8 | CRP | 401 | | N | USGS 14580 |
| 2/8/2008 | COR | 62.8 | CRP | 404 | | N | USGS 14581 |
| 2/8/2008 | COR | 62.8 | CRP | 414 | | N | USGS 14578 |
| 2/8/2008 | COR | 62.8 | CRP | 414 | | N | USGS 14579 |
| 2/8/2008 | COR | 62.8 | CRP | 420 | | N | USGS 14577 |
| 2/8/2008 | COR | 62.8 | CRP | 421 | | N | USGS 14582 |
| 2/8/2008 | COR | 63 | CRP | 273 | | N | USGS 14583 |
| 2/8/2008 | COR | 63 | CRP | 330 | | N | USGS 14584 |
| 2/8/2008 | COR | 63 | CRP | 441 | | N | USGS 14585 |
| 2/8/2008 | COR | 63.3 | CRP | 205 | | N | USGS 14586 |
| 2/8/2008 | COR | 63.3 | CRP | 216 | | N | USGS 14587 |
| 2/8/2008 | COR | 63.5 | CRP | 339 | | N | USGS 14588 |
| 2/9/2008 | COR | 65.5 | CRP | 455 | | N | USGS 14589 |
| 2/9/2008 | COR | 65.6 | CRP | 212 | | N | USGS 14244 |
| 2/9/2008 | COR | 65.6 | CRP | 401 | | N | USGS 14590 |
| 2/9/2008 | COR | 66.2 | CRP | 261 | | N | USGS 14243 |
| 2/9/2008 | COR | 66.5 | CRP | 356 | | N | USGS 14242 |
| 2/10/2008 | COR | 69.7 | CRP | 446 | | N | USGS 14251 |
| 2/10/2008 | COR | 70.7 | CRP | 202 | | N | USGS 14241 |
| 2/10/2008 | COR | 70.2 | CRP | 370 | | N | USGS 14253 |
| 2/10/2008 | COR | 72.3 | CRP | 342 | | N | USGS 14240 |
| 2/12/2008 | COR | 83.3 | CRP | 372 | | N | USGS 14239 |
| 2/13/2008 | COR | 87.6 | CRP | 483 | | N | USGS 14254 |
| 2/14/2008 | COR | 91.2 | CRP | 513 | | N | USGS 14237 |
| 2/14/2008 | COR | 91.5 | CRP | 490 | | N | USGS 14236 |
| 2/14/2008 | COR | 91.5 | CRP | 504 | | N | USGS 14233 |
| 2/14/2008 | COR | 91.5 | CRP | 543 | | N | USGS 14234 |
| 2/14/2008 | COR | 91.5 | CRP | 595 | | N | USGS 14235 |
| 2/14/2008 | COR | 91.9 | CRP | 515 | | N | USGS 14255 |
| 2/14/2008 | COR | 92.8 | CRP | 388 | | N | USGS 14259 |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
|---|---|---|---|---|---|---|---|
| 2/14/2008 | COR | 92.8 | CRP | 450 | | N | USGS 14256 |
| 2/14/2008 | COR | 92.8 | CRP | 519 | | N | USGS 14258 |
| 2/15/2008 | COR | 113.9 | CRP | 493 | | N | USGS 14232 |
| 2/15/2008 | COR | 114 | CRP | 494 | | N | USGS 14231 |
| 2/15/2008 | COR | 114 | CRP | 655 | | N | USGS 14229 |
| 2/15/2008 | COR | 114.1 | CRP | 479 | | N | USGS 14592 |
| 2/15/2008 | COR | 114.1 | CRP | 483 | | N | USGS 14226 |
| 2/15/2008 | COR | 114.1 | CRP | 501 | | N | USGS 14228 |
| 2/16/2008 | COR | 119.3 | CRP | 468 | | N | USGS 14260 |
| 2/16/2008 | COR | 119.6 | CRP | 481 | | N | USGS 14593 |
| 2/17/2008 | COR | 136.3 | CRP | 260 | | N | USGS 14261 |
| 2/17/2008 | COR | 136.6 | CRP | 536 | | N | USGS 14594 |
| 2/17/2008 | COR | 136.8 | CRP | 474 | | N | USGS 14600 |
| 2/18/2008 | COR | 146 | CRP | 531 | | N | USGS 14275 |
| 2/18/2008 | COR | 146.2 | CRP | 448 | | N | USGS 14599 |
| 2/18/2008 | COR | 147.1 | CRP | 481 | | N | USGS 14274 |
| 2/18/2008 | COR | 147.2 | CRP | 360 | | N | USGS 14598 |
| 2/19/2008 | COR | 175.1 | CRP | 449 | | N | USGS 14597 |
| 2/19/2008 | COR | 175.9 | CRP | 523 | | N | USGS 14271 |
| 2/19/2008 | COR | 176.2 | CRP | 575 | | N | USGS 14325 |
| 2/19/2008 | COR | 176 | CRP | 384 | | N | USGS14596 |
| 2/20/2008 | COR | 181 | CRP | 489 | | N | USGS 14302 |
| 2/20/2008 | COR | 181.3 | CRP | 539 | | N | USGS 14303 |
| 2/20/2008 | COR | 182.6 | CRP | 474 | | N | USGS 14551 |
| 2/20/2008 | COR | 182.8 | CRP | 473 | | N | USGS 14552 |
| 2/20/2008 | COR | 182.2 | CRP | 334 | | N | USGS 14305 |
| 2/20/2008 | COR | 182.2 | CRP | 500 | | N | USGS 14304 |
| 2/20/2008 | COR | 182.4 | CRP | 414 | | N | USGS 14306 |
| 2/21/2008 | COR | 192 | CRP | 461 | | N | USGS 14309 |
| 2/21/2008 | COR | 190.9 | CRP | 447 | | N | USGS 14559 |
| 2/21/2008 | COR | 190.9 | CRP | 491 | | N | USGS 14558 |
| 2/21/2008 | COR | 190.9 | CRP | 501 | | N | USGS 14556 |
| 2/23/2008 | COR | 213.7 | CRP | 465 | | N | USGS 14310 |
| 2/24/2008 | COR | 222.1 | CRP | 320 | | N | USGS 14560 |
| 3/31/2008 | COR | 61.3 | CRP | 323 | | N | USGS 14311 |
| 3/31/2008 | COR | 63 | CRP | 371 | | N | USGS 14477 |
| 3/31/2008 | COR | 63.4 | CRP | 387 | | N | USGS 14478 |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
|---|---|---|---|---|---|---|---|
| 4/1/2008 | COR | 65.9 | CRP | 458 | | N | USGS 14479 |
| 4/1/2008 | COR | 66.6 | CRP | 399 | | N | USGS 14480 |
| 4/2/2008 | COR | 70 | CRP | 445 | | N | USGS 14312 |
| 4/2/2008 | COR | 70.1 | CRP | 340 | | N | USGS 14313 |
| 4/4/2008 | COR | 84 | CRP | 357 | | N | USGS 14314 |
| 4/5/2008 | COR | 87.2 | CRP | 435 | | N | USGS 14481 |
| 4/5/2008 | COR | 87.7 | CRP | 518 | | N | USGS 14482 |
| 4/6/2008 | COR | 91.6 | CRP | 556 | | N | USGS 14483 |
| 4/6/2008 | COR | 92 | CRP | 520 | | N | USGS 14485 |
| 4/6/2008 | COR | 92.3 | CRP | 528 | | N | USGS 14486 |
| 4/6/2008 | COR | 92.5 | CRP | 469 | | N | USGS 14487 |
| 4/6/2008 | COR | 92.8 | CRP | 504 | | N | USGS 14488 |
| 4/7/2008 | COR | 114.3 | CRP | 478 | | N | USGS 14489 |
| 4/7/2008 | COR | 115 | CRP | 479 | | N | USGS 14315 |
| 4/7/2008 | COR | 115.3 | CRP | 458 | | N | USGS 14316 |
| 4/7/2008 | COR | 114.9 | CRP | 472 | | N | USGS 14491 |
| 4/7/2008 | COR | 114.9 | CRP | 527 | | N | USGS 14490 |
| 4/7/2008 | COR | 115.2 | CRP | 243 | | N | USGS 14492 |
| 4/8/2008 | COR | 119.5 | CRP | 435 | | N | USGS 14493 |
| 4/8/2008 | COR | 119.8 | CRP | 336 | | N | USGS 14317 |
| 4/8/2008 | COR | 119.8 | CRP | 578 | | N | USGS 14495 |
| 4/8/2008 | COR | 120.1 | CRP | 422 | | N | USGS 14318 |
| 4/8/2008 | COR | 119.9 | CRP | 368 | | N | USGS 14496 |
| 4/8/2008 | COR | 120 | CRP | 510 | | N | USGS 14497 |
| 4/8/2008 | COR | 120.1 | CRP | 514 | | N | USGS 14498 |
| 4/8/2008 | COR | 120.5 | CRP | 519 | | N | USGS 14319 |
| 4/8/2008 | COR | 120.7 | CRP | 390 | | N | USGS 14499 |
| 4/9/2008 | COR | 135.8 | CRP | 439 | | N | USGS 14500 |
| 4/9/2008 | COR | 135.8 | CRP | 482 | | N | USGS 14575 |
| 4/9/2008 | COR | 137.1 | CRP | 280 | | N | USGS 14022 |
| 4/9/2008 | COR | 137.2 | CRP | 327 | | N | USGS 14020 |
| 4/9/2008 | COR | 136.8 | CRP | 476 | | N | USGS 14574 |
| 4/10/2008 | COR | 145.5 | CRP | 582 | | N | USGS 14573 |
| 4/10/2008 | COR | 146.2 | CRP | 228 | | N | USGS 14019 |
| 4/10/2008 | COR | 146.3 | CRP | 285 | | N | USGS 14018 |
| 4/10/2008 | COR | 146.8 | CRP | 382 | | N | USGS 14572 |
| 4/10/2008 | COR | 147.3 | CRP | 331 | | N | USGS 14571 |

| DATE | RIVER | RM | SPECIES | TL | FL | RECAP | TAG |
|---|---|---|---|---|---|---|---|
| 4/11/2008 | COR | 174.4 | CRP | 300 | | N | USGS 14570 |
| 4/11/2008 | COR | 174.6 | CRP | 459 | | N | USGS 14569 |
| 4/11/2008 | COR | 174.7 | CRP | 467 | | N | USGS 14568 |
| 4/11/2008 | COR | 176.2 | CRP | 382 | | N | USGS 14017 |
| 4/11/2008 | COR | 176.3 | CRP | 253 | | N | USGS 14016 |
| 4/11/2008 | COR | 176.3 | CRP | 470 | | N | USGS 14015 |
| 4/12/2008 | COR | 176 | CRP | 497 | | N | USGS 14567 |
| 4/12/2008 | COR | 176.2 | CRP | 310 | | N | USGS 14566 |
| 4/12/2008 | COR | 181 | CRP | 443 | | N | USGS 14014 |
| 4/12/2008 | COR | 181 | CRP | 478 | | N | USGS 14013 |
| 4/12/2008 | COR | 181.9 | CRP | 428 | | N | USGS 14565 |
| 4/12/2008 | COR | 181.2 | CRP | 438 | | N | USGS 14012 |
| 4/12/2008 | COR | 182.1 | CRP | 530 | | N | USGS 14564 |
| 4/12/2008 | COR | 182.2 | CRP | 347 | | N | USGS 14563 |
| 4/12/2008 | COR | 182.3 | CRP | 337 | | N | USGS 14562 |
| 4/12/2008 | COR | 182.4 | CRP | 458 | | N | USGS 14475 |
| 4/12/2008 | COR | 182.7 | CRP | 457 | | N | USGS 14474 |
| 4/12/2008 | COR | 183.2 | CRP | 254 | | N | USGS 14011 |
| 4/13/2008 | COR | 191.8 | CRP | 488 | | N | USGS 14010 |
| 4/13/2008 | COR | 192 | CRP | 435 | | N | USGS 14009 |
| 4/14/2008 | COR | 207.1 | CRP | 435 | | N | USGS 14473 |
| 4/14/2008 | COR | 207.4 | CRP | 468 | | N | USGS 14008 |
| 4/14/2008 | COR | 207.4 | CRP | 347 | | N | USGS 14471 |
| 4/14/2008 | COR | 207.4 | CRP | 382 | | N | USGS 14470 |
| 4/14/2008 | COR | 207.5 | CRP | 367 | | N | USGS 14469 |
| 4/14/2008 | COR | 207.5 | CRP | 463 | | N | USGS 14468 |
| 4/14/2008 | COR | 207.5 | CRP | 505 | | N | USGS 14467 |
| 4/15/2008 | COR | 214.8 | CRP | 460 | | N | USGS 14466 |
| 4/16/2008 | COR | 221.7 | CRP | 476 | | N | USGS 14465 |
| 4/16/2008 | COR | 224.1 | CRP | 525 | | N | USGS 14007 |
| 4/16/2008 | COR | 222 | CRP | 386 | | N | USGS 14464 |
| 4/16/2008 | COR | 222.5 | CRP | 342 | | N | USGS 14463 |