



LCR



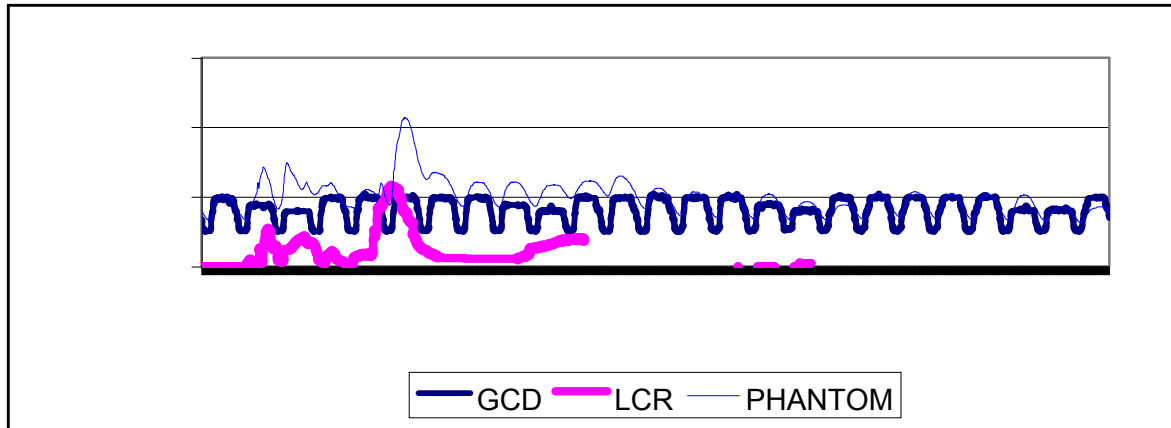
Salmonid



Assessment Trip

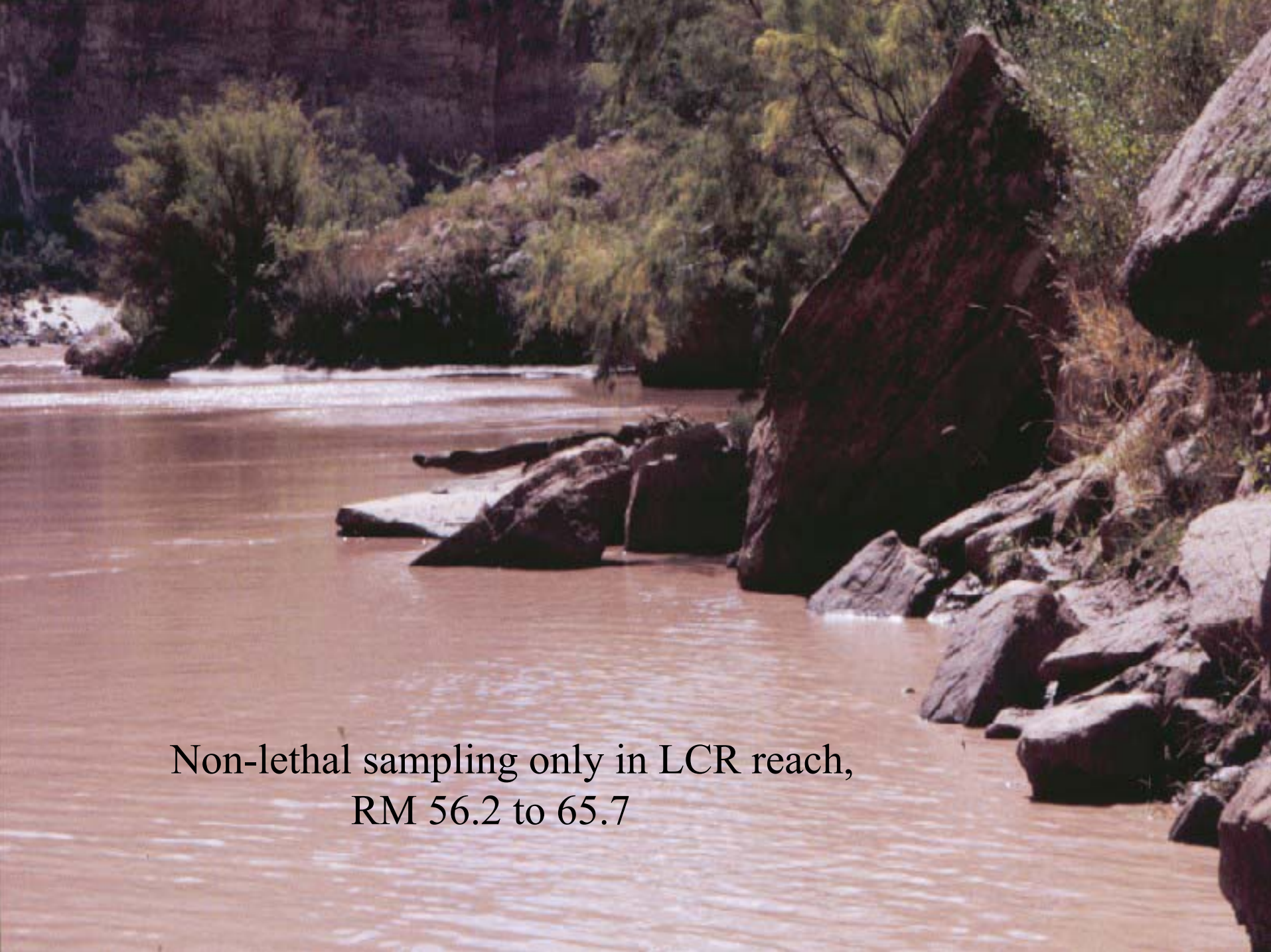
Sept 8-23, 2002

# Trip Conditions



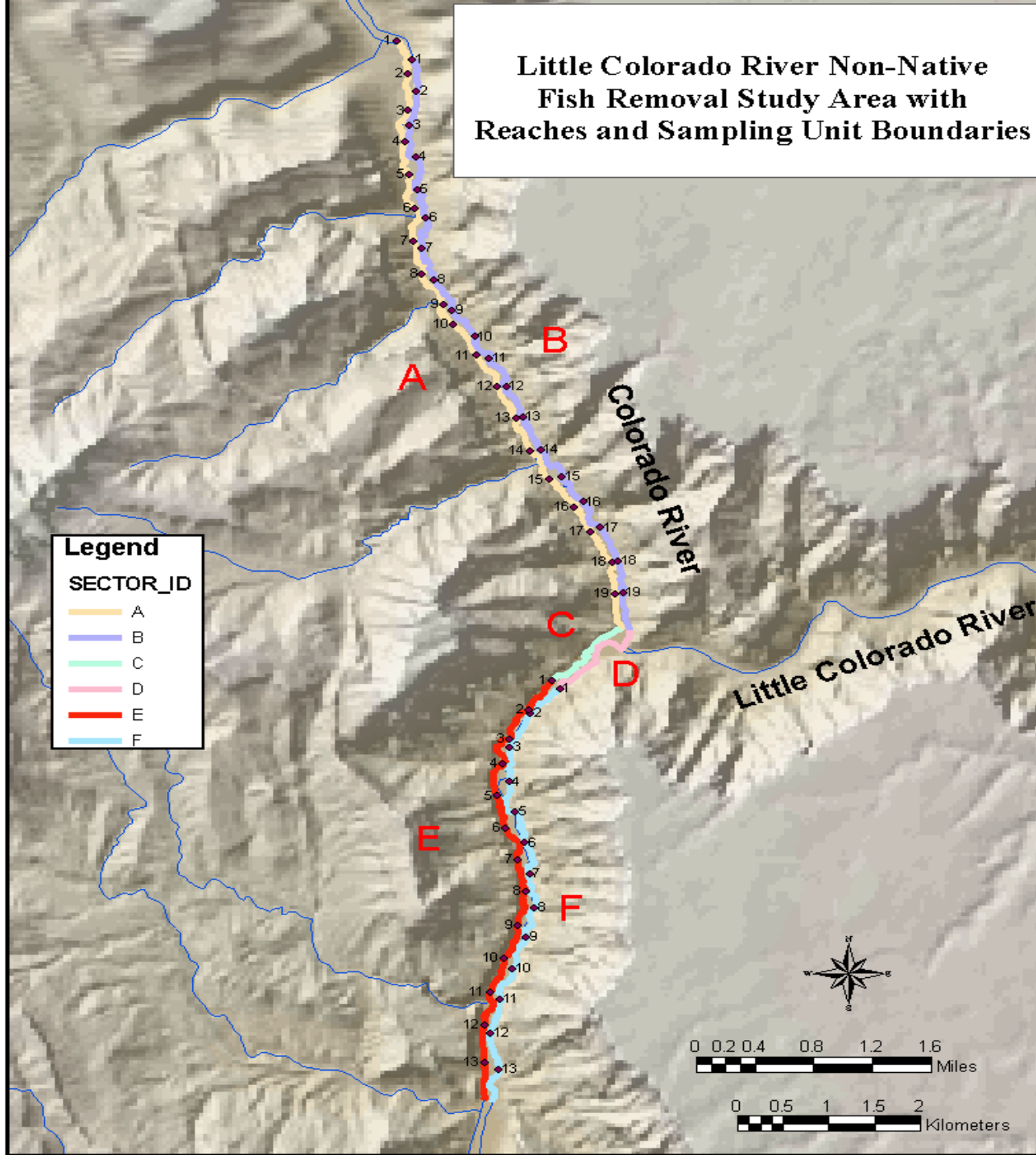
**Discharge of the Colorado River below Glen Canyon Dam (USGS gage #09379910), at Phantom Ranch (USGS gage #09402500), and the Little Colorado River near Cameron (USGS gage #09402000), from September 6 to September 30, 2002.**





Non-lethal sampling only in LCR reach,  
RM 56.2 to 65.7

# Little Colorado River Non-Native Fish Removal Study Area with Reaches and Sampling Unit Boundaries





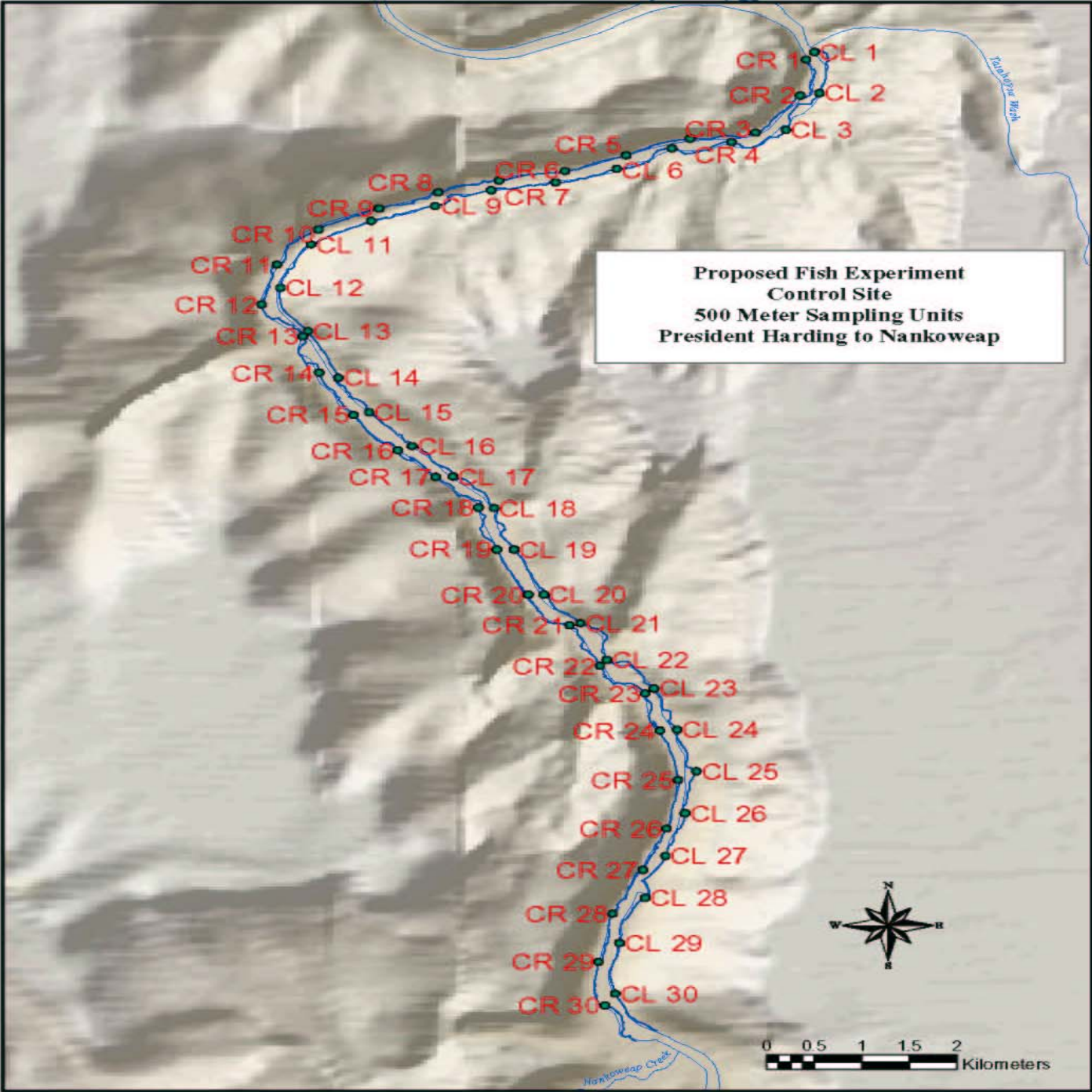


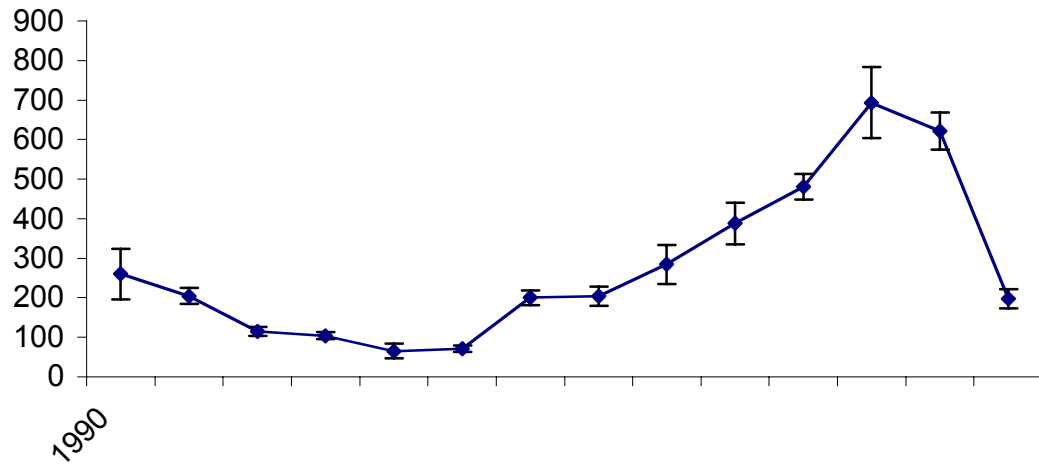
Table 1. Total catch (N) and catch per unit effort (CPUE; number of fish collected per hour of electrofishing) of fish collected in the control reach (RM 44-52) and above the Little Colorado River (LCR)(RM 56.2-61.6), and below the LCR (RM 62.3-65.7), 8-23 September, 2002. SE=standard error.

Species	Reach	N	CPUE (SE)	Minimum CPUE	Maximum CPUE
Rainbow trout	Control	157	19.00(2.33)	5.21	46.35
	Above LCR	400	29.73(3.17)	0	78.66
	Below LCR	49	5.32(0.90)	0	14.01
	Experimental <sup>1</sup>	449	19.81(2.43)	0	78.66
Brown trout	Control	0	0	0	0
	Above LCR	1	0.05(0.05)	0	1.88
	Below LCR	1	0.09(0.09)	0	2.38
	Experimental <sup>1</sup>	2	0.06(0.05)	0	2.38
Humpback chub	Control	0	0	0	0
	Above LCR	1	0.06(0.06)	0	2.42
	Below LCR	2	0.17(0.12)	0	2.54
	Experimental <sup>1</sup>	3	0.11(0.06)	0	2.54
Flannelmouth sucker	Control	0	0	0	0
	Above LCR	7	0.56(0.23)	0	6.18
	Below LCR	6	0.70(0.55)	0	13.93
	Experimental <sup>1</sup>	13	0.62(0.26)	0	13.93
Bluehead sucker	Control	0	0	0	0
	Above LCR	0	0	0	0
	Below LCR	2	0.20(0.14)	0	2.75
	Experimental <sup>1</sup>	2	0.08(0.06)	0	2.75
Common carp	Control	0	0	0	0
	Above LCR	4	0.33(0.23)	0	6.61
	Below LCR	1	0.11(0.11)	0	2.84
	Experimental <sup>1</sup>	5	0.24(0.14)	0	6.61

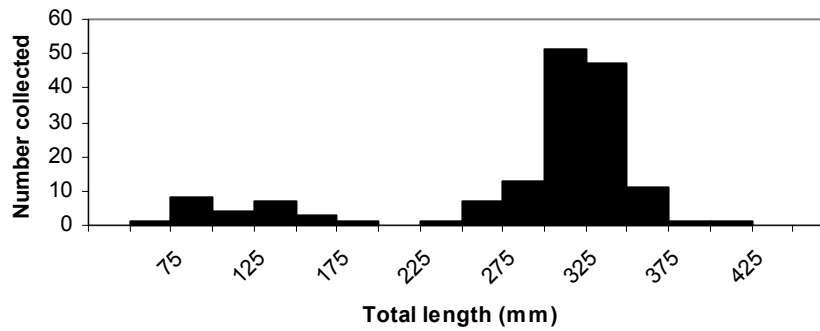
<sup>1</sup> Experimental reach refers to the areas above and below the LCR combined



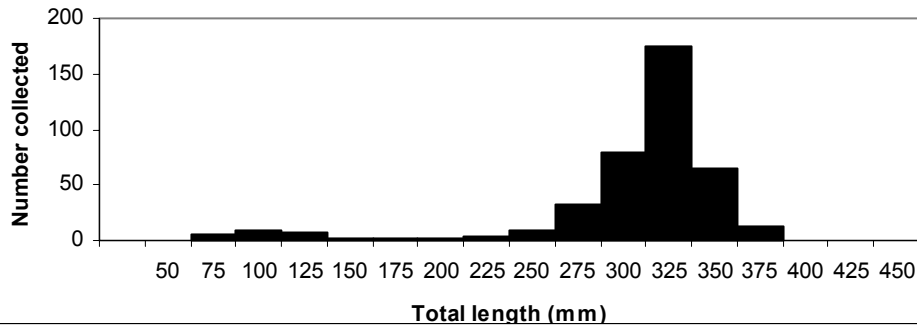
**Rainbow Trout CPUE in the LCR Reach**



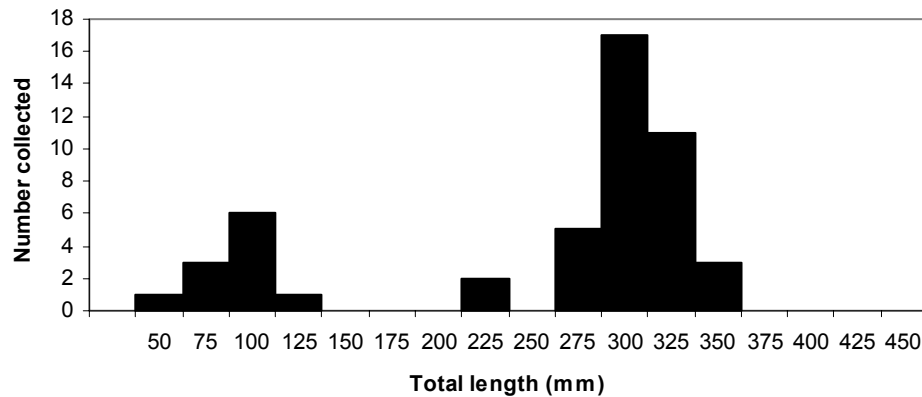
**Rainbow Trout Length Frequency for the Control Reach (RM 44-52)**



**Rainbow Trout Length Frequency for the Area Above the LCR (RM 56.2-61.6)**



**Rainbow Trout Length Frequency for the Area Below the LCR (RM 62.3-65.7)**





# Trout Diet Analysis



- Stomach contents from a total of 36 rainbow trout and one brown trout were flushed with gastric lavage.
- The length range for rainbow trout was 280 to 362 mm TL (mean=327 mm), whereas the brown trout measured 343 mm.
- Preliminary results show that one rainbow trout (293 mm) did have unidentified fish remains (likely a killifish) for an incidence of piscivory of 2.7%. The brown trout did not have any identifiable fish remains.

# Mechanical Removal Assessment

- Stomachs were removed from 109 rainbow trout (62-384 mm) and two brown trout (282 mm, 316 mm) during mock-processing event at Tanner Rapids, RM70-75
- Evaluated crew size, gear, time for sampling, sample processing, euthansia, disposal.