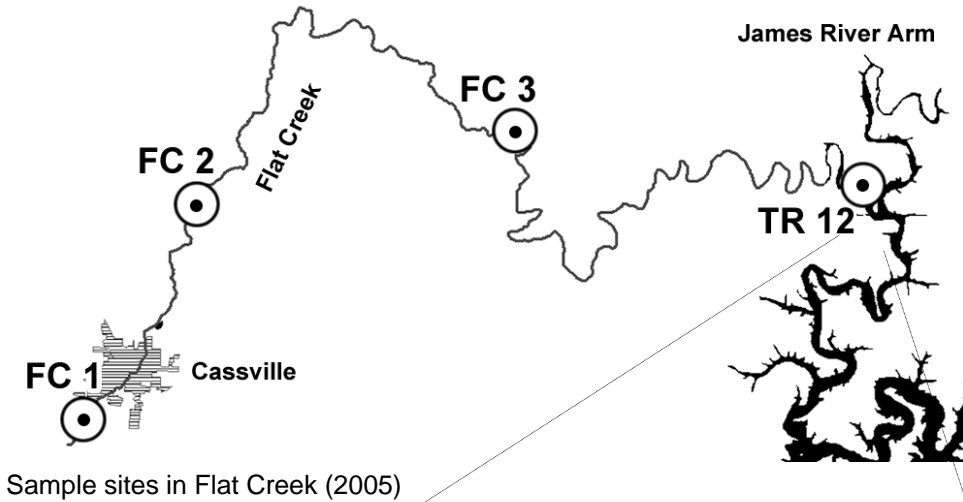


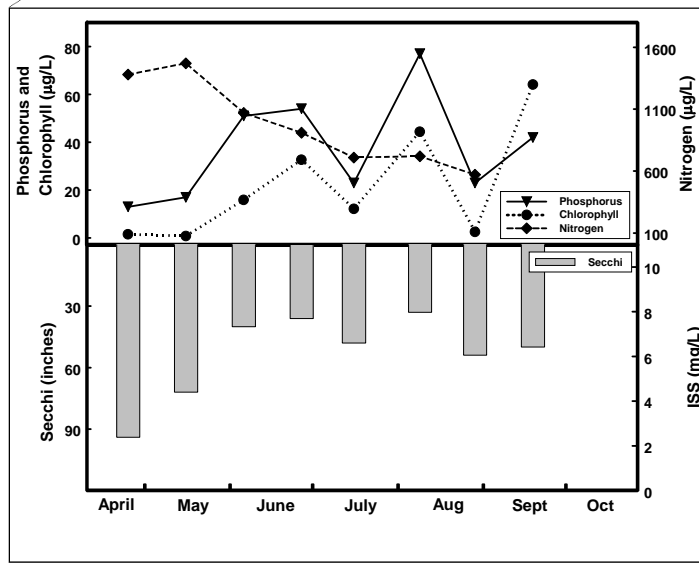
# Table Rock Lake: Flat Creek



2005 was the second year of gathering samples from within Flat Creek to determine the source of extreme chlorophyll variability observed at Table Rock Lake Site 12.

Due to the different types of algae found in streams versus lakes, chlorophyll was not measured at these sites. Only nutrients and suspended sediments were monitored.

Groundwater often has high nitrogen concentrations. The sample from Flat Creek Site 1 (FC1), which is near a spring, has the highest nitrogen concentrations of any Flat Creek site. The concentrations decrease with distance away from the site.



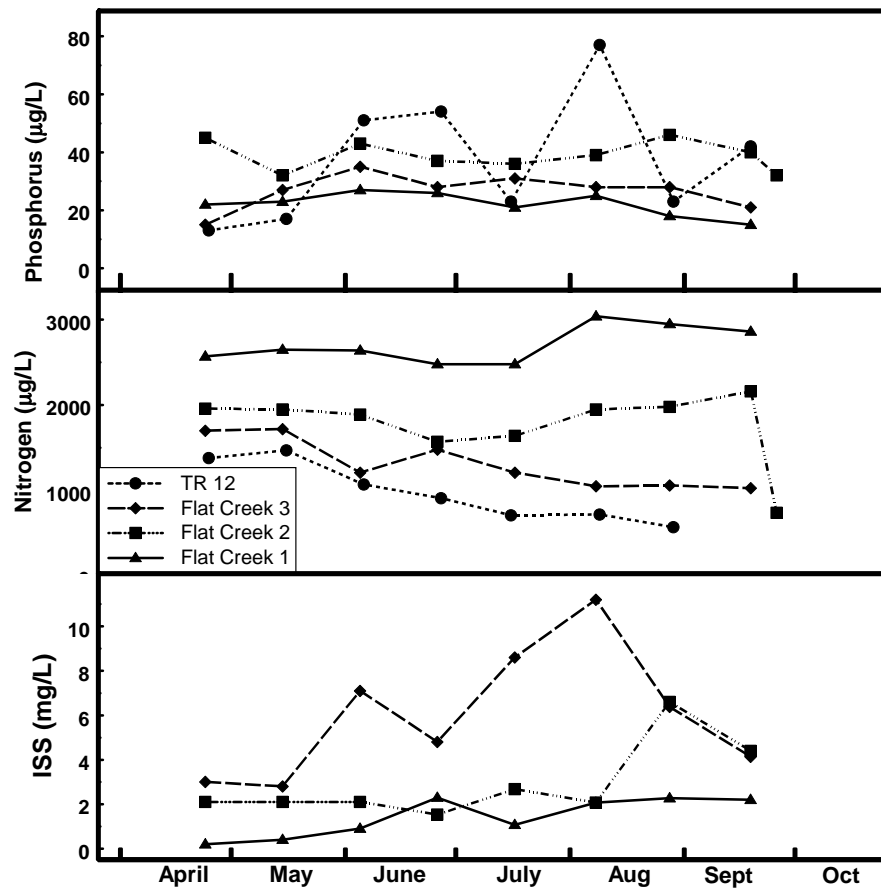
**2005 Seasonal fluctuations of parameters for Table Rock Lake, Site 12 (Flat Creek Arm).**

Phosphorus concentrations are higher at FC2, which is downstream from the city of Cassville, and at TR12 than at either FC1 or FC3. This was true last year as well, implying that phosphorus is entering Flat Creek between FC1 and FC2 and between FC3 and TR12.

This is last year that LMVP volunteers will be gathering samples throughout Flat Creek.

# Table Rock Lake: Flat Creek

Seasonal variation at sites in Flat Creek and the Flat Creek Arm of Table Rock Lake



Descriptive Statistics for sites in Flat Creek and the Flat Creek Arm of Table Rock Lake

Parameters		FC1	FC2	FC3	TR12
Phosphorus (ug/L)	Mean	22	39	26	32
	Minimum	15	32	15	13
	Maximum	27	46	35	77
Nitrogen (ug/L)	Mean	2701	1694	1281	963
	Minimum	2480	740	1030	570
	Maximum	3040	2160	1720	1470
ISS (mg/L)	Mean	1.1	2.6	5.4	
	Minimum	0.2	1.5	2.8	
	Maximum	2.3	6.6	11.2	