

Table 5.1-1. Monthly Mean Flow in the Rock Creek, Cresta and Upper North Fork Reaches and Monthly Mean Temperature in the Rock Creek and Cresta Reaches of the North Fork Feather River, 2007.

Month	Monthly Mean Flow (cfs)			Monthly Mean Temperature (°C) ⁴					
	Rock Creek ¹	Cresta ²	Upper North Fork ³	Rock Creek ¹			Cresta ²		
				Mean	Min	Max	Mean	Min	Max
May	185	190	395	-	-	-	-	-	-
June	180	183	142	19.0	15.4	21.3	18.6	14.7	21.8
July	216	224	83	20.6	18.5	22.7	20.6	18.1	23.8
August	280	260	66	20.7	19.6	22.2	20.2	18.2	22.8
September	277	261	75	18.3	14.8	22.4	17.9	14.1	22.5
October	211	202	145	-	-	-	-	-	-

¹ Flows and temperature in the Rock Creek reach are recorded on the North Fork Feather River below Rock Creek.

² Flows and temperature in the Cresta reach are recorded on the North Fork Feather River below Grizzly Creek.

³ Flows in the Upper North Fork reach are recorded on the East Branch of the North Fork Feather River near Rich Bar.

⁴ Temperature data for Rock Creek and Cresta reaches was not available for May and October 2007.

Table 5.1-2. Mean Velocity, Dominant Substrate, and Mean Water Quality Readings by Trip in the Rock, Cresta, and Upper North Fork Reaches of North Fork Feather River, 2007.

Reach	Trip	Mean Velocity (ft/sec)	Mean Water Quality Readings				Dominant Substrate ^{1,2}
			Temperature (°C)	Dissolved Oxygen (mg/L)	pH	Specific Conductance (mS)	
Rock	August Before	0.6	20.3	8.08	7.98	118.6	SB-CB-XB
	August After	1.0	20.8	8.54	8.06	125.6	CB-SB-XB-RR
	September Before	1.1	17.7	8.59	8.05	134.6	CB-SB
	September After	1.3	16.0	9.44	7.95	149.0	CB-SB-XB-RR
Cresta	August Before	2.1	20.0	8.14	7.80	102.0	SB-XB-CB
	August After	0.9	20.5	8.30	8.03	107.8	SB-XB-CB
	September Before	1.3	17.5	9.05	7.62	109.3	CB-SB-XB-RR
	September After	1.3	15.6	9.08	7.99	111.6	CB-SB-XB-RR
Upper North Fork	August Before	1.3	21.4	8.04	8.24	149.3	CB-SB-XB-RS
	August After	1.3	22.4	8.23	8.42	165.7	CB-SB-XB
	September Before	1.1	15.1	9.35	8.17	196.0	CB-SB-RR-XB
	September After	1.3	13.8	9.46	8.03	204.0	CB-RR-SB

¹ Codes for dominant substrate are as follows: CB = cobble, SB = small boulder, XB = large boulder, RS = smooth bedrock, and RR = rough bedrock.

² The substrate data values are in order of dominance for each reach.

Table 5.1-3a. Comparison of *Acentrella* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	445.46	112.53	778.38	P=0.27
AFTER	617.78	0.00	1,280.54	
BEFORE	273.13	0.00	717.69	

Table 5.1-3b. Comparison of *Acentrella* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	297.96	154.25	441.66	P=0.29
AFTER	368.47	23.21	713.73	
BEFORE	227.45	187.24	267.65	

Table 5.1-3c. Comparison of *Acentrella* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	593.87	213.29	974.46	P=0.42
AFTER	729.81	0.00	1,922.71	
BEFORE	457.94	0.00	971.67	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-4a. Comparison of *Antocha* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	275.29	169.29	381.28	P=0.50
AFTER	309.20	104.90	513.49	
BEFORE	241.38	68.21	414.55	

Table 5.1-4b. Comparison of *Antocha* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	443.93	195.09	692.77	P=0.48
AFTER	528.43	0.00	1,084.07	
BEFORE	359.44	70.49	648.39	

Table 5.1-4c. Comparison of *Antocha* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	259.66	170.15	349.17	P=0.80
AFTER	270.30	0.00	541.20	
BEFORE	249.02	57.28	440.75	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-5a. Comparison of *Baetis tricaudatus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	168.82	43.74	293.91	P=0.22
AFTER	239.58	0.00	497.23	
BEFORE	98.07	0.00	240.81	

Table 5.1-5b. Comparison of *Baetis tricaudatus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1462.89	140.56	2785.23	*P=0.75
AFTER	1,998.63	0.00	5,141.21	
BEFORE	927.16	0.00	1,860.40	

Table 5.1-5c. Comparison of *Baetis tricaudatus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	188.24	91.75	284.73	P=0.82
AFTER	198.53	36.47	360.58	
BEFORE	177.95	0.00	497.62	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-6a. Comparison of *Calineuria californica* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-6b. Comparison of *Calineuria californica* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.01	0.00	9.76	*P=0.05
AFTER	3.01	0.00	9.76	
BEFORE	0.00	0.00	0.00	

Table 5.1-6c. Comparison of *Calineuria californica* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-7a. Comparison of *Camelobaetidius* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	113.17	65.84	160.49	P=0.41
AFTER	131.52	24.75	238.29	
BEFORE	94.82	44.96	144.67	

Table 5.1-7b. Comparison of *Camelobaetidius* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	113.85	71.41	156.28	P=0.28
AFTER	135.16	66.79	203.53	
BEFORE	92.54	16.50	168.57	

Table 5.1-7c. Comparison of *Camelobaetidius* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	62.45	23.58	101.31	P=0.41
AFTER	76.65	-54.68	207.99	
BEFORE	48.24	35.16	61.32	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-8a. Comparison of *Ceraclea* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	15.68	6.61	24.76	P=0.03
AFTER	7.52	1.62	13.42	
BEFORE	23.85	7.52	40.18	

Table 5.1-8b. Comparison of *Ceraclea* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	15.11	3.30	26.91	*P=0.30
AFTER	22.14	0.00	48.05	
BEFORE	8.08	0.00	17.16	

Table 5.1-8c. Comparison of *Ceraclea* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4.97	0.00	11.34	P=0.74
AFTER	5.94	0.00	21.93	
BEFORE	4.00	0.00	21.20	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-9a. Comparison of *Cheumatopsyche* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	311.74	261.17	362.31	P=0.02
AFTER	359.77	274.80	444.75	
BEFORE	263.71	228.71	298.71	

Table 5.1-9b. Comparison of *Cheumatopsyche* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	346.05	191.08	501.02	P=0.06
AFTER	470.62	199.93	741.32	
BEFORE	221.48	49.13	393.83	

Table 5.1-9c. Comparison of *Cheumatopsyche* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	421.95	186.59	657.31	P=0.28
AFTER	529.71	0.00	1,247.65	
BEFORE	314.19	100.78	527.60	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-10a. Comparison of *Chimarra* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	14.52	0.00	32.27	*P=0.32
AFTER	3.62	0.00	10.36	
BEFORE	25.41	0.00	65.83	

Table 5.1-10b. Comparison of *Chimarra* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	181.78	27.83	335.73	P=0.94
AFTER	187.53	0.00	388.67	
BEFORE	176.03	0.00	522.54	

Table 5.1-10c. Comparison of *Chimarra* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	8.98	0.00	21.67	P=0.52
AFTER	12.66	0.00	54.82	
BEFORE	5.31	0.00	20.40	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-11a. Comparison of Chironomidae Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2517.11	1661.90	3372.32	P=0.18
AFTER	3,039.94	1,314.15	4,765.73	
BEFORE	1,994.28	1,032.07	2,956.49	

Table 5.1-11b. Comparison of Chironomidae Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2254.81	1527.54	2982.09	P=0.01
AFTER	2,980.11	2,098.44	3,861.78	
BEFORE	1,529.51	646.06	2,412.97	

Table 5.1-11c. Comparison of Chironomidae Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1683.07	1199.56	2166.57	P=0.17
AFTER	1,950.74	660.37	3,241.10	
BEFORE	1,415.39	883.10	1,947.69	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-12a. Comparison of *Epeorus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	19.48	7.87	31.10	*P=0.75
AFTER	22.84	0.00	49.12	
BEFORE	16.13	0.00	29.54	

Table 5.1-12b. Comparison of *Epeorus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	80.18	0.00	163.41	P=0.46
AFTER	109.43	0.00	305.51	
BEFORE	50.92	0.00	123.10	

Table 5.1-12c. Comparison of *Epeorus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	34.85	10.91	58.79	P=0.71
AFTER	38.88	0.00	92.98	
BEFORE	30.81	0.00	100.10	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-13a. Comparison of *Ephemerella excrucians* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	11.68	3.63	19.74	P=0.92
AFTER	11.30	0.00	25.34	
BEFORE	12.07	0.00	27.62	

Table 5.1-13b. Comparison of *Ephemerella excrucians* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	9.70	2.02	17.38	P=0.18
AFTER	5.05	0.00	15.92	
BEFORE	14.36	0.29	28.43	

Table 5.1-13c. Comparison of *Ephemerella excrucians* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	10.03	2.82	17.25	P=0.60
AFTER	11.77	0.00	28.47	
BEFORE	8.30	0.00	28.15	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-14a. Comparison of *Glossosoma* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	13.81	3.32	24.29	P=0.56
AFTER	16.70	0.00	37.90	
BEFORE	10.92	0.00	27.16	

Table 5.1-14b. Comparison of *Glossosoma* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4.15	0.00	10.94	P=0.37
AFTER	6.99	0.00	23.38	
BEFORE	1.30	0.00	4.90	

Table 5.1-14c. Comparison of *Glossosoma* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	38.06	29.82	46.30	P=0.67
AFTER	39.64	22.82	56.47	
BEFORE	36.48	11.55	61.42	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-15a. Comparison of *Hemerodromia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	46.36	19.44	73.29	*P=0.25
AFTER	64.84	9.60	120.07	
BEFORE	27.89	4.48	51.30	

Table 5.1-15b. Comparison of *Hemerodromia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	13.32	5.92	20.72	P=0.84
AFTER	14.05	8.41	19.68	
BEFORE	12.59	0.00	30.96	

Table 5.1-15c. Comparison of *Hemerodromia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	13.64	6.42	20.85	P=0.42
AFTER	16.23	0.00	33.30	
BEFORE	11.04	0.00	28.75	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-16a. Comparison of *Homoleptohyphes* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	41.50	17.43	65.56	*P=0.08
AFTER	61.37	16.10	106.64	
BEFORE	21.63	2.80	40.46	

Table 5.1-16b. Comparison of *Homoleptohyphes* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	18.91	8.34	29.47	P=0.06
AFTER	27.43	9.41	45.46	
BEFORE	10.38	0.00	22.68	

Table 5.1-16c. Comparison of *Homoleptohyphes* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	68.23	20.70	115.75	P=0.17
AFTER	94.88	0.00	221.78	
BEFORE	41.57	0.00	90.38	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-17a. Comparison of *Hydropsyche* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	384.69	172.10	597.27	P=0.95
AFTER	377.86	65.29	690.43	
BEFORE	391.51	0.00	848.10	

Table 5.1-17b. Comparison of *Hydropsyche* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	528.70	140.87	916.53	*P=0.47
AFTER	725.32	0.00	1,576.03	
BEFORE	332.08	0.00	715.31	

Table 5.1-17c. Comparison of *Hydropsyche* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	763.85	432.38	1095.31	P=0.88
AFTER	741.47	6.90	1,476.05	
BEFORE	786.22	0.00	1,781.30	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-18a. Comparison of *Hydroptila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	874.39	97.13	1651.65	P=0.17
AFTER	1,362.48	0.00	3,128.47	
BEFORE	386.30	144.81	627.79	

Table 5.1-18b. Comparison of *Hydroptila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	190.36	97.45	283.27	P=0.12
AFTER	255.59	97.68	413.51	
BEFORE	125.13	0.00	256.21	

Table 5.1-18c. Comparison of *Hydroptila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	481.97	228.20	735.74	P=0.40
AFTER	576.72	0.00	1,271.74	
BEFORE	387.23	0.00	890.07	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-19a. Comparison of *Isoperla* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	32.01	6.60	57.41	P=0.52
AFTER	39.75	0.00	88.14	
BEFORE	24.26	0.00	66.72	

Table 5.1-19b. Comparison of *Isoperla* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	69.18	2.29	136.08	P=0.48
AFTER	91.47	0.00	246.20	
BEFORE	46.89	0.00	113.82	

Table 5.1-19c. Comparison of *Isoperla* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	38.51	17.00	60.03	P=0.96
AFTER	38.97	33.23	111.17	
BEFORE	38.06	2.43	73.69	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-20a. Comparison of *Leucotrichia pictipes* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2040.46	1601.11	2479.82	P=0.75
AFTER	2,109.40	1,349.25	2,869.55	
BEFORE	1,971.53	1,127.52	2,815.54	

Table 5.1-20b. Comparison of *Leucotrichia pictipes* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1266.03	761.25	1770.82	P=0.03
AFTER	1,732.28	875.09	2,589.47	
BEFORE	799.78	406.59	1,192.97	

Table 5.1-20c. Comparison of *Leucotrichia pictipes* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	665.89	208.76	1123.03	P=0.92
AFTER	688.00	0.00	2,072.51	
BEFORE	643.79	0.00	1,644.50	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-21a. Comparison of *Ochrotrichia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	17.18	0.09	34.27	*P=0.13
AFTER	27.99	0.00	64.49	
BEFORE	6.37	0.00	20.40	

Table 5.1-21b. Comparison of *Ochrotrichia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	53.12	20.19	86.04	P=0.68
AFTER	59.56	0.00	126.62	
BEFORE	46.67	0.00	98.55	

Table 5.1-21c. Comparison of *Ochrotrichia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	53.19	18.96	87.41	P=0.67
AFTER	59.85	0.00	161.14	
BEFORE	46.53	0.00	119.52	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-22a. Comparison of *Optioservus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	42.32	13.92	70.73	P=0.77
AFTER	46.28	0.53	92.03	
BEFORE	38.37	0.00	95.95	

Table 5.1-22b. Comparison of *Optioservus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	75.05	0.00	167.05	P=0.38
AFTER	113.33	0.00	332.91	
BEFORE	36.77	0.00	96.10	

Table 5.1-22c. Comparison of *Optioservus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	90.81	8.01	173.61	P=0.27
AFTER	129.74	0.00	359.62	
BEFORE	51.88	0.00	174.88	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-23a. Comparison of *Petrophila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	25.72	16.16	35.29	*P=0.60
AFTER	24.31	0.16	48.45	
BEFORE	27.14	21.68	32.60	

Table 5.1-23b. Comparison of *Petrophila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	36.99	13.91	60.07	P=0.75
AFTER	40.55	1.38	79.72	
BEFORE	33.43	0.00	78.46	

Table 5.1-23c. Comparison of *Petrophila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	31.96	3.52	60.40	P=0.87
AFTER	34.07	0.00	125.74	
BEFORE	29.85	0.00	83.15	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-24a. Comparison of *Protoptila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	27.16	15.30	39.02	P=0.62
AFTER	29.97	13.75	46.20	
BEFORE	24.35	-1.33	50.04	

Table 5.1-24b. Comparison of *Protoptila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-24c. Comparison of *Protoptila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	82.38	39.42	125.34	P=0.81
AFTER	77.68	-48.19	203.55	
BEFORE	87.07	-10.93	185.07	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-25a. Comparison of *Psychomyia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	45.25	3.89	86.61	P=0.85
AFTER	48.98	0.00	149.03	
BEFORE	41.52	2.37	80.67	

Table 5.1-25b. Comparison of *Psychomyia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	10.43	4.85	16.01	P=0.64
AFTER	9.17	0.00	18.57	
BEFORE	11.69	0.90	22.49	

Table 5.1-25c. Comparison of *Psychomyia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	59.72	0.00	168.99	P=0.29
AFTER	108.85	0.00	456.75	
BEFORE	10.59	0.00	49.92	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-26a. Comparison of *Rhyacophila angelita* Group Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.15	0.00	0.55	*P=0.32
AFTER	0.15	0.00	0.55	
BEFORE	0.00	0.00	0.00	

Table 5.1-26b. Comparison of *Rhyacophila angelita* Group Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.08	0.00	0.31	*P=0.32
AFTER	0.00	0.00	0.00	
BEFORE	0.08	0.00	0.31	

Table 5.1-26c. Comparison of *Rhyacophila angelita* Group Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-27a. Comparison of *Rhyacophila coloradensis* Group Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-27b. Comparison of *Rhyacophila coloradensis* Group Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.45	0.00	13.02	*P=0.32
AFTER	3.45	0.00	13.02	
BEFORE	0.00	0.00	0.00	

Table 5.1-27c. Comparison of *Rhyacophila coloradensis* Group Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.99	0.00	10.55	P=0.35
AFTER	0.00	0.00	0.00	
BEFORE	1.99	0.00	10.55	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-28a. Comparison of *Rhyacophila hyalinta* Group Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-28b. Comparison of *Rhyacophila hyalinta* Group Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-28c. Comparison of *Rhyacophila hyalinta* Group Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-29a. Comparison of *Rhyacophila malkini* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	12.51	7.07	17.96	P=0.55
AFTER	14.08	2.83	25.33	
BEFORE	10.94	2.89	19.00	

Table 5.1-29b. Comparison of *Rhyacophila malkini* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	6.55	2.22	10.88	P=0.48
AFTER	8.02	0.00	16.88	
BEFORE	5.08	0.00	11.43	

Table 5.1-29c. Comparison of *Rhyacophila malkini* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	11.57	4.89	18.25	P=0.41
AFTER	13.98	0.00	29.84	
BEFORE	9.16	0.00	25.48	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-30a. Comparison of *Serratella micheneri* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	28.94	10.99	46.89	P=0.73
AFTER	31.91	0.00	69.16	
BEFORE	25.97	0.00	53.59	

Table 5.1-30b. Comparison of *Serratella micheneri* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	34.81	21.10	48.51	P=0.03
AFTER	47.06	26.90	67.22	
BEFORE	22.56	5.57	39.55	

Table 5.1-30c. Comparison of *Serratella micheneri* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	11.57	4.89	18.25	P=0.50
AFTER	53.79	0.00	120.64	
BEFORE	38.38	0.00	97.53	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-31a. Comparison of *Simulium* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	272.75	90.63	454.86	P=0.45
AFTER	338.09	3.92	672.26	
BEFORE	207.40	0.00	518.34	

Table 5.1-31b. Comparison of *Simulium* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1062.37	0.00	2154.90	P=0.33
AFTER	1,557.00	0.00	4,106.75	
BEFORE	567.74	0.00	1,372.09	

Table 5.1-31c. Comparison of *Simulium* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	502.88	120.50	885.26	P=0.89
AFTER	477.60	0.00	1,411.07	
BEFORE	528.17	0.00	1,607.50	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-32a. Comparison of *Zaitzevia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	273.61	140.85	406.37	P=0.33
AFTER	334.16	72.42	595.90	
BEFORE	213.06	21.13	404.99	

Table 5.1-32b. Comparison of *Zaitzevia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	141.69	41.51	241.87	P=0.47
AFTER	176.42	0.00	364.53	
BEFORE	106.96	0.00	274.29	

Table 5.1-32c. Comparison of *Zaitzevia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	629.33	248.50	1010.16	P=0.78
AFTER	678.94	0.00	1,757.32	
BEFORE	579.73	0.00	1,487.01	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-33a. Comparison of *Acentrella* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,045.02	442.87	1,647.17	P=0.57
AFTER	1,208.28	0.00	2,450.52	
BEFORE	881.76	0.00	1,782.83	

Table 5.1-33b. Comparison of *Acentrella* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	877.93	537.00	1,218.86	P=0.18
AFTER	1,087.84	390.98	1,784.71	
BEFORE	668.02	304.10	1,031.94	

Table 5.1-33c. Comparison of *Acentrella* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,093.31	539.32	1,647.30	P=0.78
AFTER	1,165.59	0.00	2,530.39	
BEFORE	1,021.02	0.00	2,550.64	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-34a. Comparison of *Antocha* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	268.74	165.14	372.34	P=0.81
AFTER	280.81	72.74	488.88	
BEFORE	256.68	86.67	426.68	

Table 5.1-34b. Comparison of *Antocha* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	418.03	307.15	528.92	P=0.29
AFTER	472.81	286.62	659.01	
BEFORE	363.25	170.61	555.89	

Table 5.1-34c. Comparison of *Antocha* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	175.06	71.14	278.99	P=0.54
AFTER	146.46	122.74	170.19	
BEFORE	203.66	0.00	571.88	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-35a. Comparison of *Baetis tricaudatus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,093.33	379.67	1,807.00	P=0.67
AFTER	1,239.92	0.00	2,799.20	
BEFORE	946.75	0.00	1,915.43	

Table 5.1-35b. Comparison of *Baetis tricaudatus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,832.39	2,362.50	7,302.29	P=0.91
AFTER	4,974.55	1,174.75	8,774.35	
BEFORE	4,690.24	0.00	9,870.59	

Table 5.1-35c. Comparison of *Baetis tricaudatus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	690.47	89.42	1,291.51	P=0.88
AFTER	647.80	0.00	1,688.69	
BEFORE	733.14	0.00	2,718.91	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-36a. Comparison of *Calineuria californica* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-36b. Comparison of *Calineuria californica* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.52	0.00	1.19	*P=0.05
AFTER	0.00	0.00	0.00	
BEFORE	0.52	0.00	1.19	

Table 5.1-36c. Comparison of *Calineuria californica* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-37a. Comparison of *Camelobaetidius* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	15.66	7.67	23.64	P=0.17
AFTER	10.63	0.00	22.81	
BEFORE	20.69	7.04	34.34	

Table 5.1-37b. Comparison of *Camelobaetidius* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	30.27	13.63	46.91	P=0.09
AFTER	42.74	15.47	70.02	
BEFORE	17.80	0.00	40.89	

Table 5.1-37c. Comparison of *Camelobaetidius* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	19.63	5.42	33.84	P=0.56
AFTER	15.93	0.00	51.90	
BEFORE	23.33	0.00	59.14	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-38a. Comparison of *Ceraclea* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	12.56	1.21	23.90	P=0.76
AFTER	14.24	0.00	29.29	
BEFORE	10.87	0.00	36.08	

Table 5.1-38b. Comparison of *Ceraclea* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	9.82	0.00	23.52	P=0.21
AFTER	1.95	0.00	7.38	
BEFORE	17.69	0.00	49.38	

Table 5.1-38c. Comparison of *Ceraclea* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.89	0.00	10.00	0.37
AFTER	1.89	0.00	10.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-39a. Comparison of *Cheumatopsyche* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	438.55	302.90	574.20	P=0.28
AFTER	507.28	298.09	716.46	
BEFORE	369.82	119.28	620.36	

Table 5.1-39b. Comparison of *Cheumatopsyche* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	567.54	187.94	947.13	P=0.79
AFTER	518.92	146.94	890.89	
BEFORE	616.15	0.00	1,526.81	

Table 5.1-39c. Comparison of *Cheumatopsyche* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	611.92	59.35	1,164.48	P=0.73
AFTER	523.49	37.51	1,009.47	
BEFORE	700.34	0.00	2,674.22	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-40a. Comparison of *Chimarra* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	73.17	0.00	155.48	P=0.71
AFTER	88.13	0.00	285.99	
BEFORE	58.20	0.00	135.11	

Table 5.1-40b. Comparison of *Chimarra* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	718.97	0.00	1,512.44	P=0.65
AFTER	544.09	0.00	1,316.73	
BEFORE	893.85	0.00	2,778.78	

Table 5.1-40c. Comparison of *Chimarra* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	43.64	5.94	81.34	P=0.41
AFTER	57.29	0.00	164.03	
BEFORE	29.99	0.00	101.18	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-41a. Comparison of Chironomidae Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3,297.69	2,415.14	4,180.24	P=0.96
AFTER	3,317.21	1,530.39	5,104.02	
BEFORE	3,278.17	1,833.97	4,722.37	

Table 5.1-41b. Comparison of Chironomidae Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,714.51	3,474.68	5,954.33	P=0.26
AFTER	5,363.12	2,885.48	7,840.76	
BEFORE	4,065.90	2,435.02	5,696.77	

Table 5.1-41c. Comparison of Chironomidae Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,495.31	871.21	2,119.40	P=0.89
AFTER	1,454.62	80.39	2,828.85	
BEFORE	1,535.99	0.00	3,416.67	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-42a. Comparison of *Epeorus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	37.43	3.37	71.49	P=0.67
AFTER	44.47	0.00	122.17	
BEFORE	30.39	0.00	70.83	

Table 5.1-42b. Comparison of *Epeorus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	184.11	40.64	327.59	P=0.92
AFTER	191.30	0.00	451.85	
BEFORE	176.93	0.00	444.23	

Table 5.1-42c. Comparison of *Epeorus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	76.50	29.34	123.66	P=0.95
AFTER	77.76	31.70	123.83	
BEFORE	75.23	0.00	245.54	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-43a. Comparison of *Ephemerella excrucians* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.06	0.00	7.78	*P=0.32
AFTER	2.06	0.00	7.78	
BEFORE	0.00	0.00	0.00	

Table 5.1-43b. Comparison of *Ephemerella excrucians* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.14	0.00	4.29	*P=0.32
AFTER	0.00	0.00	0.00	
BEFORE	1.14	0.00	4.29	

Table 5.1-43c. Comparison of *Ephemerella excrucians* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.51	0.00	11.13	P=0.12
AFTER	3.51	0.00	11.13	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-44a. Comparison of *Glossosoma* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	23.44	7.73	39.15	P=0.93
AFTER	22.73	0.00	52.91	
BEFORE	24.15	0.00	51.73	

Table 5.1-44b. Comparison of *Glossosoma* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.94	0.00	4.47	P=0.56
AFTER	1.23	0.00	4.24	
BEFORE	2.64	0.00	8.33	

Table 5.1-44c. Comparison of *Glossosoma* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	46.51	12.63	80.40	P=0.43
AFTER	34.74	0.00	119.45	
BEFORE	58.29	0.00	137.92	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-45a. Comparison of *Hemerodromia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	60.11	24.73	95.50	P=0.50
AFTER	71.55	5.04	138.07	
BEFORE	48.68	0.00	108.33	

Table 5.1-45b. Comparison of *Hemerodromia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	39.05	10.27	67.83	P=0.95
AFTER	38.08	16.61	59.55	
BEFORE	40.01	0.00	111.78	

Table 5.1-45c. Comparison of *Hemerodromia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	70.46	20.76	120.16	P=0.69
AFTER	79.40	15.16	143.65	
BEFORE	61.52	0.00	231.80	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-46a. Comparison of *Homoleptohyphes* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	82.02	46.44	117.60	P=0.24
AFTER	101.52	43.59	159.45	
BEFORE	62.52	1.22	123.82	

Table 5.1-46b. Comparison of *Homoleptohyphes* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	100.88	39.96	161.80	P=0.09
AFTER	146.44	39.03	253.86	
BEFORE	55.32	0.00	130.28	

Table 5.1-46c. Comparison of *Homoleptohyphes* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	174.79	1.25	348.32	P=0.86
AFTER	160.96	0.00	752.81	
BEFORE	188.61	0.00	449.43	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-47a. Comparison of *Hydropsyche* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,072.09	366.72	1,777.45	P=0.44
AFTER	1,331.37	0.00	2,942.76	
BEFORE	812.80	93.81	1,531.80	

Table 5.1-47b. Comparison of *Hydropsyche* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,604.21	562.46	2,645.95	P=0.88
AFTER	1,529.74	180.31	2,879.18	
BEFORE	1,678.67	0.00	4,026.89	

Table 5.1-47c. Comparison of *Hydropsyche* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,308.83	351.05	2,266.60	P=0.74
AFTER	1,162.03	668.94	1,655.12	
BEFORE	1,455.62	0.00	4,949.60	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-48a. Comparison of *Hydroptila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,025.04	673.06	1,377.01	P=0.86
AFTER	995.14	542.66	1,447.62	
BEFORE	1,054.93	260.20	1,849.66	

Table 5.1-48b. Comparison of *Hydroptila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	460.71	310.88	610.53	P=0.01
AFTER	613.22	402.71	823.72	
BEFORE	308.19	173.28	443.11	

Table 5.1-48c. Comparison of *Hydroptila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	322.75	27.99	617.51	P=0.38
AFTER	208.55	0.00	648.54	
BEFORE	436.95	0.00	1,321.27	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-49a. Comparison of *Isoperla* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	58.80	16.97	100.63	P=0.53
AFTER	71.33	0.00	158.08	
BEFORE	46.27	0.00	107.34	

Table 5.1-49b. Comparison of *Isoperla* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	108.21	13.28	203.14	P=0.89
AFTER	114.75	0.00	256.89	
BEFORE	101.66	0.00	303.46	

Table 5.1-49c. Comparison of *Isoperla* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	49.40	0.00	100.09	P=0.90
AFTER	46.32	31.75	60.89	
BEFORE	52.47	0.00	241.17	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-50a. Comparison of *Leucotrichia pictipes* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	414.70	223.46	605.93	P=0.06
AFTER	259.26	47.51	471.02	
BEFORE	570.13	238.54	901.72	

Table 5.1-50b. Comparison of *Leucotrichia pictipes* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	530.51	223.11	837.92	P=0.55
AFTER	442.79	0.00	900.14	
BEFORE	618.24	0.00	1,252.07	

Table 5.1-50c. Comparison of *Leucotrichia pictipes* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	235.74	0.00	489.96	P=0.63
AFTER	180.47	0.00	700.79	
BEFORE	291.02	0.00	1,051.28	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-51a. Comparison of *Ochrotrichia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	49.42	15.78	83.05	P=0.68
AFTER	56.15	0.00	117.69	
BEFORE	42.68	0.00	103.56	

Table 5.1-51b. Comparison of *Ochrotrichia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	118.88	27.40	210.36	*P=0.47
AFTER	70.41	5.82	134.99	
BEFORE	167.35	0.00	375.93	

Table 5.1-51c. Comparison of *Ochrotrichia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	21.12	1.22	41.02	P=0.31
AFTER	12.46	0.00	66.09	
BEFORE	29.78	0.00	65.58	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-52a. Comparison of *Optioservus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	64.82	19.99	109.64	*P=0.35
AFTER	89.54	0.00	188.15	
BEFORE	40.09	0.84	79.35	

Table 5.1-52b. Comparison of *Optioservus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	108.15	22.43	193.87	P=0.90
AFTER	113.55	0.00	248.89	
BEFORE	102.76	0.00	279.89	

Table 5.1-52c. Comparison of *Optioservus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	122.71	25.53	219.89	P=0.56
AFTER	148.49	0.00	471.52	
BEFORE	96.93	0.00	221.97	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-53a. Comparison of *Petrophila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	17.46	3.97	30.95	P=0.14
AFTER	8.51	0.00	25.31	
BEFORE	26.42	1.07	51.76	

Table 5.1-53b. Comparison of *Petrophila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	10.22	2.76	17.69	*P=0.83
AFTER	9.90	0.00	26.86	
BEFORE	10.54	1.06	20.03	

Table 5.1-53c. Comparison of *Petrophila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	39.59	0.00	86.90	P=0.38
AFTER	21.33	0.00	72.81	
BEFORE	57.85	0.00	207.94	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-54a. Comparison of *Protophila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	17.46	3.97	30.95	P=0.25
AFTER	13.43	0.00	28.09	
BEFORE	26.74	0.66	52.82	

Table 5.1-54b. Comparison of *Protophila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.50	0.00	13.23	*P=0.32
AFTER	3.50	0.00	13.23	
BEFORE	0.00	0.00	0.00	

Table 5.1-54c. Comparison of *Protophila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	131.35	0.00	299.52	P=0.21
AFTER	43.12	0.00	100.55	
BEFORE	219.57	0.00	718.37	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-55a. Comparison of *Psychomyia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	44.46	27.83	61.08	P=0.53
AFTER	39.41	10.73	68.09	
BEFORE	49.50	18.64	80.36	

Table 5.1-55b. Comparison of *Psychomyia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	27.35	6.41	48.29	P=0.04
AFTER	45.62	6.00	85.24	
BEFORE	9.08	0.00	19.84	

Table 5.1-55c. Comparison of *Psychomyia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	62.15	0.00	135.23	P=0.40
AFTER	35.31	0.00	166.80	
BEFORE	88.99	0.00	299.20	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-56a. Comparison of *Rhyacophila angelita* Group Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-56b. Comparison of *Rhyacophila angelita* Group Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-56c. Comparison of *Rhyacophila angelita* Group Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.19	0.00	0.99	P=0.37
AFTER	0.19	0.00	0.99	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-57a. Comparison of *Rhyacophila coloradensis* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.06	0.00	7.78	*P=0.32
AFTER	2.06	0.00	7.78	
BEFORE	0.00	0.00	0.00	

Table 5.1-57b. Comparison of *Rhyacophila coloradensis* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal-Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	12.53	0.00	47.34	*P=0.32
AFTER	0.00	0.00	0.00	
BEFORE	12.53	0.00	47.34	

Table 5.1-57c. Comparison of *Rhyacophila coloradensis* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	14.61	0.00	33.35	P=0.26
AFTER	23.50	0.00	80.09	
BEFORE	5.71	0.00	21.71	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-58a. Comparison of *Rhyacophila hyalinta* Group Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-58b. Comparison of *Rhyacophila hyalinta* Group Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-58c. Comparison of *Rhyacophila hyalinta* Group Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-59a. Comparison of *Rhyacophila malkini* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	14.45	4.84	24.06	P=0.54
AFTER	17.30	0.00	39.40	
BEFORE	11.60	1.30	21.91	

Table 5.1-59b. Comparison of *Rhyacophila malkini* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	8.01	1.89	14.14	P=0.60
AFTER	9.58	0.00	24.55	
BEFORE	6.45	1.89	11.02	

Table 5.1-59c. Comparison of *Rhyacophila malkini* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	10.54	4.40	16.68	P=0.97
AFTER	10.63	0.78	20.48	
BEFORE	10.45	0.00	31.20	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-60a. Comparison of *Serratella micheneri* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	12.16	7.50	16.81	P=0.21
AFTER	9.50	0.40	18.59	
BEFORE	14.82	8.74	20.89	

Table 5.1-60b. Comparison of *Serratella micheneri* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	14.97	0.61	29.32	P=0.72
AFTER	12.51	0.00	30.50	
BEFORE	17.42	0.00	49.83	

Table 5.1-60c. Comparison of *Serratella micheneri* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	26.61	1.45	51.77	P=0.82
AFTER	23.91	0.00	73.05	
BEFORE	29.32	0.00	108.80	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-61a. Comparison of *Simulium* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,092.32	171.73	2,012.90	P=0.76
AFTER	1,226.85	0.00	3,384.54	
BEFORE	957.78	0.00	1,967.43	

Table 5.1-61b. Comparison of *Simulium* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,145.20	1,142.48	7,147.91	P=0.62
AFTER	3,421.86	31.91	6,811.81	
BEFORE	4,868.54	0.00	11,768.55	

Table 5.1-61c. Comparison of *Simulium* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3,984.55	563.81	7,405.29	P=0.57
AFTER	4,868.81	0.00	15,151.00	
BEFORE	3,100.29	0.00	9,712.12	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-62a. Comparison of *Zaitzevia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	597.72	18.84	1,176.61	P=0.35
AFTER	850.99	0.00	2,228.56	
BEFORE	344.46	0.00	700.33	

Table 5.1-62b. Comparison of *Zaitzevia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	302.40	56.22	548.57	P=0.60
AFTER	240.57	0.00	601.33	
BEFORE	364.22	0.00	879.90	

Table 5.1-62c. Comparison of *Zaitzevia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	750.50	276.74	1,224.26	P=0.99
AFTER	752.75	0.00	2,084.30	
BEFORE	748.25	0.00	1,415.24	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-63a. Comparison of *Acentrella* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	445.46	112.53	778.38	P=0.99
AFTER	617.78	0.00	1,280.54	
BEFORE	273.13	0.00	717.69	

Table 5.1-63b. Comparison of *Acentrella* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	297.96	154.25	441.66	P=0.74
AFTER	368.47	23.21	713.73	
BEFORE	227.45	187.24	267.65	

Table 5.1-63c. Comparison of *Acentrella* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	593.87	213.29	974.46	P=0.89
AFTER	729.81	0.00	1,922.71	
BEFORE	457.94	0.00	971.67	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-64a. Comparison of *Antocha* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	275.29	169.29	381.28	P=0.93
AFTER	309.20	104.90	513.49	
BEFORE	241.38	68.21	414.55	

Table 5.1-64b. Comparison of *Antocha* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	443.93	195.09	692.77	P=0.86
AFTER	528.43	0.00	1,084.07	
BEFORE	359.44	70.49	648.39	

Table 5.1-64c. Comparison of *Antocha* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	259.66	170.15	349.17	P=0.91
AFTER	270.30	0.00	541.20	
BEFORE	249.02	57.28	440.75	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-65a. Comparison of *Baetis tricaudatus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	168.82	43.74	293.91	P=0.91
AFTER	239.58	0.00	497.23	
BEFORE	98.07	0.00	240.81	

Table 5.1-65b. Comparison of *Baetis tricaudatus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1462.89	140.56	2785.23	*P=0.75
AFTER	1,998.63	0.00	5,141.21	
BEFORE	927.16	0.00	1,860.40	

Table 5.1-65c. Comparison of *Baetis tricaudatus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	188.24	91.75	284.73	P=0.85
AFTER	198.53	36.47	360.58	
BEFORE	177.95	0.00	497.62	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-66a. Comparison of *Calineuria californica* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-66b. Comparison of *Calineuria californica* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.01	0.00	9.76	*P=0.05
AFTER	3.01	0.00	9.76	
BEFORE	0.00	0.00	0.00	

Table 5.1-66c. Comparison of *Calineuria californica* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-67a. Comparison of *Camelobaetidium* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	113.17	65.84	160.49	P=0.78
AFTER	131.52	24.75	238.29	
BEFORE	94.82	44.96	144.67	

Table 5.1-67b. Comparison of *Camelobaetidium* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	113.85	71.41	156.28	P=0.86
AFTER	135.16	66.79	203.53	
BEFORE	92.54	16.50	168.57	

Table 5.1-67c. Comparison of *Camelobaetidium* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	62.45	23.58	101.31	P=0.91
AFTER	76.65	0.00	207.99	
BEFORE	48.24	35.16	61.32	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-68a. Comparison of *Ceraclea* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	15.68	6.61	24.76	P=0.07
AFTER	7.52	1.62	13.42	
BEFORE	23.85	7.52	40.18	

Table 5.1-68b. Comparison of *Ceraclea* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	15.11	3.30	26.91	*P=0.30
AFTER	22.14	0.00	48.05	
BEFORE	8.08	0.00	17.16	

Table 5.1-68c. Comparison of *Ceraclea* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4.97	0.00	11.34	P=0.87
AFTER	5.94	0.00	21.93	
BEFORE	4.00	0.00	21.20	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-69a. Comparison of *Cheumatopsyche* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	311.74	261.17	362.31	P=1.00
AFTER	359.77	274.80	444.75	
BEFORE	263.71	228.71	298.71	

Table 5.1-69b. Comparison of *Cheumatopsyche* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	346.05	191.08	501.02	P=0.95
AFTER	470.62	199.93	741.32	
BEFORE	221.48	49.13	393.83	

Table 5.1-69c. Comparison of *Cheumatopsyche* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	421.95	186.59	657.31	P=0.93
AFTER	529.71	0.00	1,247.65	
BEFORE	314.19	100.78	527.60	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-70a. Comparison of *Chimarra* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	14.52	0.00	32.27	*P=0.32
AFTER	3.62	0.00	10.36	
BEFORE	25.41	0.00	65.83	

Table 5.1-70b. Comparison of *Chimarra* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	181.78	27.83	335.73	P=0.82
AFTER	187.53	0.00	388.67	
BEFORE	176.03	0.00	522.54	

Table 5.1-70c. Comparison of *Chimarra* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	8.98	0.00	21.67	P=0.69
AFTER	12.66	0.00	54.82	
BEFORE	5.31	0.00	20.40	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-71a. Comparison of Chironomidae Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2517.11	1661.90	3372.32	P=0.97
AFTER	3,039.94	1,314.15	4,765.73	
BEFORE	1,994.28	1,032.07	2,956.49	

Table 5.1-71b. Comparison of Chironomidae Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2254.81	1527.54	2982.09	P=0.97
AFTER	2,980.11	2,098.44	3,861.78	
BEFORE	1,529.51	646.06	2,412.97	

Table 5.1-71c. Comparison of Chironomidae Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1683.07	1199.56	2166.57	P=0.97
AFTER	1,950.74	660.37	3,241.10	
BEFORE	1,415.39	883.10	1,947.69	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-72a. Comparison of *Epeorus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	19.48	7.87	31.10	*P=0.75
AFTER	22.84	0.00	49.12	
BEFORE	16.13	2.73	29.54	

Table 5.1-72b. Comparison of *Epeorus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	80.18	0.00	163.41	P=0.45
AFTER	109.43	0.00	305.51	
BEFORE	50.92	0.00	123.10	

Table 5.1-72c. Comparison of *Epeorus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	34.85	10.91	58.79	P=0.88
AFTER	38.88	0.00	92.98	
BEFORE	30.81	0.00	100.10	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-73a. Comparison of *Ephemerella excrucians* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	11.68	3.63	19.74	P=0.41
AFTER	11.30	0.00	25.34	
BEFORE	12.07	0.00	27.62	

Table 5.1-73b. Comparison of *Ephemerella excrucians* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	9.70	2.02	17.38	P=0.01
AFTER	5.05	0.00	15.92	
BEFORE	14.36	0.29	28.43	

Table 5.1-73c. Comparison of *Ephemerella excrucians* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	10.03	2.82	17.25	P=0.83
AFTER	11.77	0.00	28.47	
BEFORE	8.30	0.00	28.15	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-74a. Comparison of *Glossosoma* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	13.81	3.32	24.29	P=0.84
AFTER	16.70	0.00	37.90	
BEFORE	10.92	0.00	27.16	

Table 5.1-74b. Comparison of *Glossosoma* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4.15	0.00	10.94	P=0.74
AFTER	6.99	0.00	23.38	
BEFORE	1.30	0.00	4.90	

Table 5.1-74c. Comparison of *Glossosoma* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	38.06	29.82	46.30	P=0.95
AFTER	39.64	22.82	56.47	
BEFORE	36.48	11.55	61.42	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-75a. Comparison of *Hemerodromia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	46.36	19.44	73.29	*P=0.25
AFTER	64.84	9.60	120.07	
BEFORE	27.89	4.48	51.30	

Table 5.1-75b. Comparison of *Hemerodromia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	13.32	5.92	20.72	P=0.86
AFTER	14.05	8.41	19.68	
BEFORE	12.59	0.00	30.96	

Table 5.1-75c. Comparison of *Hemerodromia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	13.64	6.42	20.85	P=0.92
AFTER	16.23	0.00	33.30	
BEFORE	11.04	0.00	28.75	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-76a. Comparison of *Homoleptohyphes* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	41.50	17.43	65.56	*P=0.08
AFTER	61.37	16.10	106.64	
BEFORE	21.63	2.80	40.46	

Table 5.1-76b. Comparison of *Homoleptohyphes* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	18.91	8.34	29.47	P=0.96
AFTER	27.43	9.41	45.46	
BEFORE	10.38	0.00	22.68	

Table 5.1-76c. Comparison of *Homoleptohyphes* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	68.23	20.70	115.75	P=0.98
AFTER	94.88	0.00	221.78	
BEFORE	41.57	0.00	90.38	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-77a. Comparison of *Hydropsyche* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	384.69	172.10	597.27	P=0.65
AFTER	377.86	65.29	690.43	
BEFORE	391.51	0.00	848.10	

Table 5.1-77b. Comparison of *Hydropsyche* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	528.70	140.87	916.53	*P=0.47
AFTER	725.32	0.00	1,576.03	
BEFORE	332.08	0.00	715.31	

Table 5.1-77c. Comparison of *Hydropsyche* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	763.85	432.38	1095.31	P=0.92
AFTER	741.47	6.90	1,476.05	
BEFORE	786.22	0.00	1,781.30	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-78a. Comparison of *Hydroptila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	874.39	97.13	1651.65	P=0.99
AFTER	1,362.48	0.00	3,128.47	
BEFORE	386.30	144.81	627.79	

Table 5.1-78b. Comparison of *Hydroptila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	190.36	97.45	283.27	P=0.99
AFTER	255.59	97.68	413.51	
BEFORE	125.13	0.00	256.21	

Table 5.1-78c. Comparison of *Hydroptila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	481.97	228.20	735.74	P=0.97
AFTER	576.72	0.00	1,271.74	
BEFORE	387.23	0.00	890.07	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-79a. Comparison of *Isoperla* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	32.01	6.60	57.41	P=0.66
AFTER	39.75	0.00	88.14	
BEFORE	24.26	0.00	66.72	

Table 5.1-79b. Comparison of *Isoperla* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	69.18	2.29	136.08	P=0.61
AFTER	91.47	0.00	246.20	
BEFORE	46.89	0.00	113.82	

Table 5.1-79c. Comparison of *Isoperla* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	38.51	17.00	60.03	P=0.77
AFTER	38.97	33.23	111.17	
BEFORE	38.06	2.43	73.69	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-80a. Comparison of *Leucotrichia pictipes* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2040.46	1601.11	2479.82	P=0.68
AFTER	2,109.40	1,349.25	2,869.55	
BEFORE	1,971.53	1,127.52	2,815.54	

Table 5.1-80b. Comparison of *Leucotrichia pictipes* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1266.03	761.25	1770.82	P=0.99
AFTER	1,732.28	875.09	2,589.47	
BEFORE	799.78	406.59	1,192.97	

Table 5.1-80c. Comparison of *Leucotrichia pictipes* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	665.89	208.76	1123.03	P=0.97
AFTER	688.00	0.00	2,072.51	
BEFORE	643.79	0.00	1,644.50	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-81a. Comparison of *Ochrotrichia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	17.18	0.09	34.27	*P=0.13
AFTER	27.99	0.00	64.49	
BEFORE	6.37	0.00	20.40	

Table 5.1-81b. Comparison of *Ochrotrichia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	53.12	20.19	86.04	P=0.71
AFTER	59.56	0.00	126.62	
BEFORE	46.67	0.00	98.55	

Table 5.1-81c. Comparison of *Ochrotrichia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	53.19	18.96	87.41	P=0.99
AFTER	59.85	0.00	161.14	
BEFORE	46.53	0.00	119.52	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-82a. Comparison of *Optioservus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	42.32	13.92	70.73	P=0.93
AFTER	46.28	0.53	92.03	
BEFORE	38.37	0.00	95.95	

Table 5.1-82b. Comparison of *Optioservus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	75.05	0.00	167.05	P=0.75
AFTER	113.33	0.00	332.91	
BEFORE	36.77	0.00	96.10	

Table 5.1-82c. Comparison of *Optioservus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	90.81	8.01	173.61	P=0.85
AFTER	129.74	0.00	359.62	
BEFORE	51.88	0.00	174.88	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-83a. Comparison of *Petrophila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	25.72	16.16	35.29	*P=0.60
AFTER	24.31	0.16	48.45	
BEFORE	27.14	21.68	32.60	

Table 5.1-83b. Comparison of *Petrophila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	36.99	13.91	60.07	P=0.92
AFTER	40.55	1.38	79.72	
BEFORE	33.43	0.00	78.46	

Table 5.1-83c. Comparison of *Petrophila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	31.96	3.52	60.40	P=0.78
AFTER	34.07	0.00	125.74	
BEFORE	29.85	0.00	83.15	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-84a. Comparison of *Protophila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	27.16	15.30	39.02	P=0.84
AFTER	29.97	13.75	46.20	
BEFORE	24.35	0.00	50.04	

Table 5.1-84b. Comparison of *Protophila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-84c. Comparison of *Protophila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	82.38	39.42	125.34	P=0.90
AFTER	77.68	0.00	203.55	
BEFORE	87.07	0.00	185.07	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-85a. Comparison of *Psychomyia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	45.25	3.89	86.61	P=0.21
AFTER	48.98	0.00	149.03	
BEFORE	41.52	2.37	80.67	

Table 5.1-85b. Comparison of *Psychomyia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	10.43	4.85	16.01	P=0.40
AFTER	9.17	0.00	18.57	
BEFORE	11.69	0.90	22.49	

Table 5.1-85c. Comparison of *Psychomyia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	59.72	0.00	168.99	P=0.95
AFTER	108.85	0.00	456.75	
BEFORE	10.59	0.00	49.92	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-86a. Comparison of *Rhyacophila angelita* Group Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.15	0.00	0.55	*P=0.32
AFTER	0.15	0.00	0.55	
BEFORE	0.00	0.00	0.00	

Table 5.1-86b. Comparison of *Rhyacophila angelita* Group Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.08	0.00	0.31	P=0.19
AFTER	0.00	0.00	0.00	
BEFORE	0.08	0.00	0.31	

Table 5.1-86c. Comparison of *Rhyacophila angelita* Group Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-87a. Comparison of *Rhyacophila coloradensis* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-87b. Comparison of *Rhyacophila coloradensis* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.45	0.00	13.02	*P=0.32
AFTER	3.45	0.00	13.02	
BEFORE	0.00	0.00	0.00	

Table 5.1-87c. Comparison of *Rhyacophila coloradensis* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.99	0.00	10.55	P=0.21
AFTER	0.00	0.00	0.00	
BEFORE	1.99	0.00	10.55	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-88a. Comparison of *Rhyacophila hyalinta* Group Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-88b. Comparison of *Rhyacophila hyalinta* Group Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-88c. Comparison of *Rhyacophila hyalinta* Group Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-89a. Comparison of *Rhyacophila malkini* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	12.51	7.07	17.96	P=0.82
AFTER	14.08	2.83	25.33	
BEFORE	10.94	2.89	19.00	

Table 5.1-89b. Comparison of *Rhyacophila malkini* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	6.55	2.22	10.88	P=0.97
AFTER	8.02	0.00	16.88	
BEFORE	5.08	0.00	11.43	

Table 5.1-89c. Comparison of *Rhyacophila malkini* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	11.57	4.89	18.25	P=0.97
AFTER	13.98	0.00	29.84	
BEFORE	9.16	0.00	25.48	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-90a. Comparison of *Serratella micheneri* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	28.94	10.99	46.89	P=0.53
AFTER	31.91	0.00	69.16	
BEFORE	25.97	0.00	53.59	

Table 5.1-90b. Comparison of *Serratella micheneri* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	34.81	21.10	48.51	P=0.94
AFTER	47.06	26.90	67.22	
BEFORE	22.56	5.57	39.55	

Table 5.1-90c. Comparison of *Serratella micheneri* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	11.57	4.89	18.25	P=0.87
AFTER	53.79	0.00	120.64	
BEFORE	38.38	0.00	97.53	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-91a. Comparison of *Simulium* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	272.75	90.63	454.86	P=0.84
AFTER	338.09	3.92	672.26	
BEFORE	207.40	0.00	518.34	

Table 5.1-91b. Comparison of *Simulium* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1062.37	0.00	2154.90	P=0.87
AFTER	1,557.00	0.00	4,106.75	
BEFORE	567.74	0.00	1,372.09	

Table 5.1-91c. Comparison of *Simulium* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	502.88	120.50	885.26	P=0.87
AFTER	477.60	0.00	1,411.07	
BEFORE	528.17	0.00	1,607.50	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-92a. Comparison of *Zaitzevia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	273.61	140.85	406.37	P=0.89
AFTER	334.16	72.42	595.90	
BEFORE	213.06	21.13	404.99	

Table 5.1-92b. Comparison of *Zaitzevia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	141.69	41.51	241.87	P=0.86
AFTER	176.42	0.00	364.53	
BEFORE	106.96	0.00	274.29	

Table 5.1-92c. Comparison of *Zaitzevia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	629.33	248.50	1010.16	P=0.85
AFTER	678.94	0.00	1,757.32	
BEFORE	579.73	0.00	1,487.01	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-93a. Comparison of *Acentrella* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,045.02	442.87	1,647.17	P=0.82
AFTER	1,208.28	0.00	2,450.52	
BEFORE	881.76	0.00	1,782.83	

Table 5.1-93b. Comparison of *Acentrella* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	877.93	537.00	1,218.86	P=0.97
AFTER	1,087.84	390.98	1,784.71	
BEFORE	668.02	304.10	1,031.94	

Table 5.1-93c. Comparison of *Acentrella* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,093.31	539.32	1,647.30	P=0.87
AFTER	1,165.59	0.00	2,530.39	
BEFORE	1,021.02	0.00	2,550.64	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-94a. Comparison of *Antocha* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	268.74	165.14	372.34	P=0.57
AFTER	280.81	72.74	488.88	
BEFORE	256.68	86.67	426.68	

Table 5.1-94b. Comparison of *Antocha* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	418.03	307.15	528.92	P=0.86
AFTER	472.81	286.62	659.01	
BEFORE	363.25	170.61	555.89	

Table 5.1-94c. Comparison of *Antocha* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	175.06	71.14	278.99	P=0.85
AFTER	146.46	122.74	170.19	
BEFORE	203.66	0.00	571.88	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-95a. Comparison of *Baetis tricaudatus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,093.33	379.67	1,807.00	P=0.79
AFTER	1,239.92	0.00	2,799.20	
BEFORE	946.75	0.00	1,915.43	

Table 5.1-95b. Comparison of *Baetis tricaudatus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,832.39	2,362.50	7,302.29	P=0.91
AFTER	4,974.55	1,174.75	8,774.35	
BEFORE	4,690.24	0.00	9,870.59	

Table 5.1-95c. Comparison of *Baetis tricaudatus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	690.47	89.42	1,291.51	P=0.88
AFTER	647.80	0.00	1,688.69	
BEFORE	733.14	0.00	2,718.91	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-96a. Comparison of *Calineuria californica* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-96b. Comparison of *Calineuria californica* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.52	0.00	1.19	*P=0.05
AFTER	0.00	0.00	0.00	
BEFORE	0.52	0.00	1.19	

Table 5.1-96c. Comparison of *Calineuria californica* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-97a. Comparison of *Camelobaetidium* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	15.66	7.67	23.64	P=0.10
AFTER	10.63	0.00	22.81	
BEFORE	20.69	7.04	34.34	

Table 5.1-97a. Comparison of *Camelobaetidium* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	30.27	13.63	46.91	P=0.93
AFTER	42.74	15.47	70.02	
BEFORE	17.80	0.00	40.89	

Table 5.1-97a. Comparison of *Camelobaetidium* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	19.63	5.42	33.84	P=0.37
AFTER	15.93	0.00	51.90	
BEFORE	23.33	0.00	59.14	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-98a. Comparison of *Ceraclea* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	12.56	1.21	23.90	P=0.77
AFTER	14.24	0.00	29.29	
BEFORE	10.87	0.00	36.08	

Table 5.1-98b. Comparison of *Ceraclea* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	9.82	0.00	23.52	P=0.01
AFTER	1.95	0.00	7.38	
BEFORE	17.69	0.00	49.38	

Table 5.1-98c. Comparison of *Ceraclea* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.89	0.00	10.00	0.79
AFTER	1.89	0.00	10.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-99a. Comparison of *Cheumatopsyche* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	438.55	302.90	574.20	P=0.98
AFTER	507.28	298.09	716.46	
BEFORE	369.82	119.28	620.36	

Table 5.1-99b. Comparison of *Cheumatopsyche* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	567.54	187.94	947.13	P=0.58
AFTER	518.92	146.94	890.89	
BEFORE	616.15	0.00	1,526.81	

Table 5.1-99c. Comparison of *Cheumatopsyche* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	611.92	59.35	1,164.48	P=0.79
AFTER	523.49	37.51	1,009.47	
BEFORE	700.34	0.00	2,674.22	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-100a. Comparison of *Chimarra* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	73.17	0.00	155.48	P=0.38
AFTER	88.13	0.00	285.99	
BEFORE	58.20	0.00	135.11	

Table 5.1-100b. Comparison of *Chimarra* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	718.97	0.00	1,512.44	P=0.73
AFTER	544.09	0.00	1,316.73	
BEFORE	893.85	0.00	2,778.78	

Table 5.1-100c. Comparison of *Chimarra* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	43.64	5.94	81.34	P=0.92
AFTER	57.29	0.00	164.03	
BEFORE	29.99	0.00	101.18	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-101a. Comparison of Chironomidae Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3,297.69	2,415.14	4,180.24	P=0.49
AFTER	3,317.21	1,530.39	5,104.02	
BEFORE	3,278.17	1,833.97	4,722.37	

Table 5.1-101b. Comparison of Chironomidae Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,714.51	3,474.68	5,954.33	P=0.93
AFTER	5,363.12	2,885.48	7,840.76	
BEFORE	4,065.90	2,435.02	5,696.77	

Table 5.1-101c. Comparison of Chironomidae Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,495.31	871.21	2,119.40	P=0.88
AFTER	1,454.62	80.39	2,828.85	
BEFORE	1,535.99	0.00	3,416.67	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-102a. Comparison of *Epeorus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	37.43	3.37	71.49	P=0.83
AFTER	44.47	0.00	122.17	
BEFORE	30.39	0.00	70.83	

Table 5.1-102b. Comparison of *Epeorus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	184.11	40.64	327.59	P=0.88
AFTER	191.30	0.00	451.85	
BEFORE	176.93	0.00	444.23	

Table 5.1-102c. Comparison of *Epeorus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	76.50	29.34	123.66	P=0.84
AFTER	77.76	31.70	123.83	
BEFORE	75.23	0.00	245.54	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-103a. Comparison of *Ephemerella excrucians* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.06	0.00	7.78	*P=0.32
AFTER	2.06	0.00	7.78	
BEFORE	0.00	0.00	0.00	

Table 5.1-103b. Comparison of *Ephemerella excrucians* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.14	0.00	4.29	*P=0.32
AFTER	0.00	0.00	0.00	
BEFORE	1.14	0.00	4.29	

Table 5.1-103c. Comparison of *Ephemerella excrucians* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.51	0.00	11.13	P=0.91
AFTER	3.51	0.00	11.13	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-104a. Comparison of *Glossosoma* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	23.44	7.73	39.15	P=0.24
AFTER	22.73	0.00	52.91	
BEFORE	24.15	0.00	51.73	

Table 5.1-104b. Comparison of *Glossosoma* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.94	0.00	4.47	P=0.21
AFTER	1.23	0.00	4.24	
BEFORE	2.64	0.00	8.33	

Table 5.1-104c. Comparison of *Glossosoma* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	46.51	12.63	80.40	P=0.47
AFTER	34.74	0.00	119.45	
BEFORE	58.29	0.00	137.92	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-105a. Comparison of *Hemerodromia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	60.11	24.73	95.50	P=0.89
AFTER	71.55	5.04	138.07	
BEFORE	48.68	0.00	108.33	

Table 5.1-105b. Comparison of *Hemerodromia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	39.05	10.27	67.83	P=0.87
AFTER	38.08	16.61	59.55	
BEFORE	40.01	0.00	111.78	

Table 5.1-105c. Comparison of *Hemerodromia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	70.46	20.76	120.16	P=0.87
AFTER	79.40	15.16	143.65	
BEFORE	61.52	0.00	231.80	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-106a. Comparison of *Homoleptohyphes* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	82.02	46.44	117.60	P=0.87
AFTER	101.52	43.59	159.45	
BEFORE	62.52	1.22	123.82	

Table 5.1-106b. Comparison of *Homoleptohyphes* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	100.88	39.96	161.80	P=0.99
AFTER	146.44	39.03	253.86	
BEFORE	55.32	0.00	130.28	

Table 5.1-106c. Comparison of *Homoleptohyphes* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	174.79	1.25	348.32	P=0.39
AFTER	160.96	0.00	752.81	
BEFORE	188.61	0.00	449.43	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-107a. Comparison of *Hydropsyche* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,072.09	366.72	1,777.45	P=0.93
AFTER	1,331.37	0.00	2,942.76	
BEFORE	812.80	93.81	1,531.80	

Table 5.1-107b. Comparison of *Hydropsyche* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,604.21	562.46	2,645.95	P=0.74
AFTER	1,529.74	180.31	2,879.18	
BEFORE	1,678.67	0.00	4,026.89	

Table 5.1-107c. Comparison of *Hydropsyche* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,308.83	351.05	2,266.60	P=0.87
AFTER	1,162.03	668.94	1,655.12	
BEFORE	1,455.62	0.00	4,949.60	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-108a. Comparison of *Hydroptila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,025.04	673.06	1,377.01	P=0.68
AFTER	995.14	542.66	1,447.62	
BEFORE	1,054.93	260.20	1,849.66	

Table 5.1-108b. Comparison of *Hydroptila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	460.71	310.88	610.53	P=0.99
AFTER	613.22	402.71	823.72	
BEFORE	308.19	173.28	443.11	

Table 5.1-108c. Comparison of *Hydroptila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	322.75	27.99	617.51	P=0.59
AFTER	208.55	0.00	648.54	
BEFORE	436.95	0.00	1,321.27	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-109a. Comparison of *Isoperla* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	58.80	16.97	100.63	P=0.92
AFTER	71.33	0.00	158.08	
BEFORE	46.27	0.00	107.34	

Table 5.1-109b. Comparison of *Isoperla* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	108.21	13.28	203.14	P=0.88
AFTER	114.75	0.00	256.89	
BEFORE	101.66	0.00	303.46	

Table 5.1-109c. Comparison of *Isoperla* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	49.40	0.00	100.09	P=0.86
AFTER	46.32	31.75	60.89	
BEFORE	52.47	0.00	241.17	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-110a. Comparison of *Leucotrichia pictipes* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	414.70	223.46	605.93	P=0.03
AFTER	259.26	47.51	471.02	
BEFORE	570.13	238.54	901.72	

Table 5.1-110b. Comparison of *Leucotrichia pictipes* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	530.51	223.11	837.92	P=0.15
AFTER	442.79	0.00	900.14	
BEFORE	618.24	0.00	1,252.07	

Table 5.1-110c. Comparison of *Leucotrichia pictipes* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	235.74	0.00	489.96	P=0.51
AFTER	180.47	0.00	700.79	
BEFORE	291.02	0.00	1,051.28	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-111a. Comparison of *Ochrotrichia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	49.42	15.78	83.05	P=0.88
AFTER	56.15	0.00	117.69	
BEFORE	42.68	0.00	103.56	

Table 5.1-111b. Comparison of *Ochrotrichia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	118.88	27.40	210.36	*P=0.47
AFTER	70.41	5.82	134.99	
BEFORE	167.35	0.00	375.93	

Table 5.1-111c. Comparison of *Ochrotrichia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	21.12	1.22	41.02	P=0.14
AFTER	12.46	0.00	66.09	
BEFORE	29.78	0.00	65.58	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-112a. Comparison of *Optioservus* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	64.82	19.99	109.64	*P=0.35
AFTER	89.54	0.00	188.15	
BEFORE	40.09	0.84	79.35	

Table 5.1-112b. Comparison of *Optioservus* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	108.15	22.43	193.87	P=0.88
AFTER	113.55	0.00	248.89	
BEFORE	102.76	0.00	279.89	

Table 5.1-112c. Comparison of *Optioservus* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	122.71	25.53	219.89	P=0.85
AFTER	148.49	0.00	471.52	
BEFORE	96.93	0.00	221.97	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-113a. Comparison of *Petrophila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	17.46	3.97	30.95	P=0.03
AFTER	8.51	0.00	25.31	
BEFORE	26.42	1.07	51.76	

Table 5.1-113b. Comparison of *Petrophila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	10.22	2.76	17.69	*P=0.83
AFTER	9.90	0.00	26.86	
BEFORE	10.54	1.06	20.03	

Table 5.1-113c. Comparison of *Petrophila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	39.59	0.00	86.90	P=0.61
AFTER	21.33	0.00	72.81	
BEFORE	57.85	0.00	207.94	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-114a. Comparison of *Protophila* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	17.46	3.97	30.95	P=0.05
AFTER	13.43	0.00	28.09	
BEFORE	26.74	0.66	52.82	

Table 5.1-114b. Comparison of *Protophila* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.50	0.00	13.23	*P=0.32
AFTER	3.50	0.00	13.23	
BEFORE	0.00	0.00	0.00	

Table 5.1-114c. Comparison of *Protophila* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	131.35	0.00	299.52	P=0.20
AFTER	43.12	0.00	100.55	
BEFORE	219.57	0.00	718.37	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-115a. Comparison of *Psychomyia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	44.46	27.83	61.08	P=0.23
AFTER	39.41	10.73	68.09	
BEFORE	49.50	18.64	80.36	

Table 5.1-115b. Comparison of *Psychomyia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	27.35	6.41	48.29	P=0.98
AFTER	45.62	6.00	85.24	
BEFORE	9.08	0.00	19.84	

Table 5.1-115c. Comparison of *Psychomyia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	62.15	0.00	135.23	P=0.11
AFTER	35.31	0.00	166.80	
BEFORE	88.99	0.00	299.20	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-116a. Comparison of *Rhyacophila angelita* Group Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-116b. Comparison of *Rhyacophila angelita* Group Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-116c. Comparison of *Rhyacophila angelita* Group Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.19	0.00	0.99	P=0.79
AFTER	0.19	0.00	0.99	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-117a. Comparison of *Rhyacophila coloradensis* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.06	0.00	7.78	*P=0.32
AFTER	2.06	0.00	7.78	
BEFORE	0.00	0.00	0.00	

Table 5.1-117b. Comparison of *Rhyacophila coloradensis* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal-Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	12.53	0.00	47.34	*P=0.32
AFTER	0.00	0.00	0.00	
BEFORE	12.53	0.00	47.34	

Table 5.1-117c. Comparison of *Rhyacophila coloradensis* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	14.61	0.00	33.35	P=0.88
AFTER	23.50	0.00	80.09	
BEFORE	5.71	0.00	21.71	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-118a. Comparison of *Rhyacophila hyalinta* Group Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-118b. Comparison of *Rhyacophila hyalinta* Group Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-118c. Comparison of *Rhyacophila hyalinta* Group Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-119a. Comparison of *Rhyacophila malkini* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	14.45	4.84	24.06	P=0.71
AFTER	17.30	0.00	39.40	
BEFORE	11.60	1.30	21.91	

Table 5.1-119b. Comparison of *Rhyacophila malkini* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	8.01	1.89	14.14	P=0.39
AFTER	9.58	0.00	24.55	
BEFORE	6.45	1.89	11.02	

Table 5.1-119c. Comparison of *Rhyacophila malkini* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	10.54	4.40	16.68	P=0.90
AFTER	10.63	0.78	20.48	
BEFORE	10.45	0.00	31.20	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-120a. Comparison of *Serratella micheneri* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	12.16	7.50	16.81	P=0.11
AFTER	9.50	0.40	18.59	
BEFORE	14.82	8.74	20.89	

Table 5.1-120b. Comparison of *Serratella micheneri* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	14.97	0.61	29.32	P=0.60
AFTER	12.51	0.00	30.50	
BEFORE	17.42	0.00	49.83	

Table 5.1-120c. Comparison of *Serratella micheneri* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	26.61	1.45	51.77	P=0.84
AFTER	23.91	0.00	73.05	
BEFORE	29.32	0.00	108.80	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-121a. Comparison of *Simulium* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,092.32	171.73	2,012.90	P=0.21
AFTER	1,226.85	0.00	3,384.54	
BEFORE	957.78	0.00	1,967.43	

Table 5.1-121b. Comparison of *Simulium* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,145.20	1,142.48	7,147.91	P=0.33
AFTER	3,421.86	31.91	6,811.81	
BEFORE	4,868.54	0.00	11,768.55	

Table 5.1-121c. Comparison of *Simulium* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3,984.55	563.81	7,405.29	P=0.91
AFTER	4,868.81	0.00	15,151.00	
BEFORE	3,100.29	0.00	9,712.12	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-122a. Comparison of *Zaitzevia* Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	597.72	18.84	1,176.61	P=0.97
AFTER	850.99	0.00	2,228.56	
BEFORE	344.46	0.00	700.33	

Table 5.1-122b. Comparison of *Zaitzevia* Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	302.40	56.22	548.57	P=0.08
AFTER	240.57	0.00	601.33	
BEFORE	364.22	0.00	879.90	

Table 5.1-122c. Comparison of *Zaitzevia* Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	750.50	276.74	1,224.26	P=0.82
AFTER	752.75	0.00	2,084.30	
BEFORE	748.25	0.00	1,415.24	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-123. Ratio of After/Before for All Reaches with Overall Test of Difference in these Ratios for Macroinvertebrate Densities – 2007.

Species	Rock Creek (After/Before)	p-value	Cresta (After/Before)	p-value	UNF (After/Before)	p-value	Overall p-value	Legend
<i>Acentrella</i>	2.19	0.001	1.61	0.094	2.92	0.042	0.393	5
<i>Antocha</i>	1.25	0.018	1.45	0.093	2.02	0.032	0.339	4
<i>Baetis tricaudatus</i>	2.03	0.16	1.40	0.447	3.71	0.064	0.446	3
<i>Calineuria californica</i>	1.26	0.107	1.58	0.167	--	--	--	2
<i>Camelobaetidius</i>	0.77	0.547	3.27	0.001	1.81	0.294	0.051	1.2
<i>Ceraclea</i>	0.95	0.941	0.64	0.602	2.16	0.18	0.218	0.8
<i>Cheumatopsyche</i>	1.69	0.001	2.00	0.062	3.13	0.029	0.502	0.5
<i>Chimarra</i>	0.39	0.18	1.37	0.58	3.05	0.3	0.23	0.1
Chironomidae	1.48	0.001	2.03	0.001	2.85	0.001	0.052	
<i>Epeorus</i>	0.91	0.908	0.82	0.707	2.31	0.161	0.254	
<i>Ephemerella excrucians</i>	0.75	0.75	0.26	0.002	2.23	0.239	0.031	
<i>Ephemerella sensu lata</i>	--	--	--	--	--	--	--	
<i>Glossosoma</i>	1.58	0.128	1.73	0.365	2.05	0.086	0.832	
<i>Hemerodromia</i>	1.62	0.412	2.04	0.159	2.80	0.054	0.745	
<i>Homoleptohyphes</i>	3.66	0.01	4.52	0.001	2.37	0.136	0.655	
<i>Hydropsyche</i>	1.35	0.419	1.46	0.349	2.14	0.045	0.623	
<i>Hydroptila</i>	2.29	0.001	2.88	0.001	2.57	0.032	0.607	
<i>Isoperla</i>	1.34	0.686	1.28	0.75	1.96	0.043	0.768	
<i>Leucotrichia pictipes</i>	1.06	0.648	1.95	0.001	2.38	0.011	0.021	
<i>Ochrotrichia</i>	5.73	0.081	1.66	0.305	1.36	0.491	0.331	
<i>Optioservus</i>	1.89	0.062	2.62	0.202	4.68	0.11	0.578	
<i>Petrophila</i>	0.45	0.218	1.24	0.45	2.60	0.203	0.216	
<i>Protophila</i>	1.44	0.487	1.75	0.028	1.14	0.74	0.672	
<i>Psychomyia</i>	0.69	0.402	2.37	0.187	2.36	0.184	0.013	
<i>Rhyacophila Angelita</i> Group	1.05	0.566	0.96	0.44	1.07	0.274	0.239	
<i>Rhyacophila Coloradensis</i> Group	1.24	0.502	0.86	0.794	1.49	0.187	0.609	
<i>Rhyacophila Hyalinta</i> Group	--	--	--	--	--	--	--	
<i>Rhyacophila malkini</i>	1.40	0.114	1.44	0.002	2.87	0.001	0.099	
<i>Serratella micheneri</i>	0.96	0.959	2.25	0.121	3.47	0.006	0.317	
<i>Simulium</i>	1.60	0.359	1.96	0.081	3.23	0.001	0.139	
<i>Zaitzevia</i>	2.70	0.015	1.33	0.462	3.25	0.068	0.12	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-124 Ratios of Ratios (After/Before) of Rock Creek vs. Reference Streams Macroinvertebrate Densities– 2007.

Species	Ratio of Rock Creek After/Before / Cresta After/Before	p-value	95% Confidence Interval of Ratio	Ratio of Rock Creek After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
<i>Acentrella</i>	1.36	0.232	.82-2.23	0.75	0.582	.26-2.11	5
<i>Antocha</i>	0.86	0.497	.56-1.32	0.62	0.141	.32-1.17	4
<i>Baetis tricaudatus</i>	1.44	0.494	.5-4.12	0.55	0.452	.11-2.64	3
<i>Calineuria californica</i>	0.80	0.301	.52-1.22	--	--	--	2
<i>Camelobaetidius</i>	0.24	0.006	.08-.66	0.42	0.2	.11-1.58	1.2
<i>Ceraclea</i>	1.49	0.672	.24-9.37	0.44	0.3	.09-2.08	0.8
<i>Cheumatopsyche</i>	0.85	0.617	.44-1.62	0.54	0.265	.18-1.59	0.5
<i>Chimarra</i>	0.28	0.14	.05-1.51	0.13	0.092	.01-1.4	0.1
Chironomidae	0.73	0.072	.52-1.03	0.52	0.025	.29-.92	
<i>Epeorus</i>	1.12	0.877	.27-4.69	0.40	0.278	.07-2.11	
<i>Ephemerella excrucians</i>	2.94	0.202	.56-15.45	0.34	0.264	.05-2.28	
<i>Ephemerella sensu lata</i>	--	--	--	--	--	--	
<i>Glossosoma</i>	0.91	0.837	.38-2.19	0.77	0.55	.33-1.81	
<i>Hemerodromia</i>	0.79	0.761	.18-3.55	0.58	0.437	.15-2.3	
<i>Homoleptohyphes</i>	0.81	0.669	.31-2.13	1.55	0.555	.36-6.54	
<i>Hydropsyche</i>	0.92	0.85	.4-2.14	0.63	0.338	.24-1.62	
<i>Hydroptila</i>	0.79	0.309	.51-1.24	0.89	0.823	.33-2.44	
<i>Isoperla</i>	1.05	0.958	.19-5.62	0.68	0.556	.19-2.44	
<i>Leucotrichia pictipes</i>	0.54	0.004	.36-.82	0.44	0.037	.21-.95	
<i>Ochotrichia</i>	3.45	0.169	.59-20.15	4.21	0.125	.67-26.48	
<i>Optioservus</i>	0.72	0.631	.19-2.74	0.41	0.313	.07-2.34	
<i>Petrophila</i>	0.36	0.16	.09-1.49	0.17	0.074	.02-1.18	
<i>Protoptila</i>	0.82	0.694	.31-2.18	1.27	0.671	.43-3.76	
<i>Psychomyia</i>	0.29	0.01	.11-.75	0.29	0.007	.12-.72	
<i>Rhyacophila Angelita Group</i>	1.09	0.165	.96-1.24	0.98	0.823	.83-1.16	
<i>Rhyacophila Coloradensis Group</i>	1.44	0.546	.44-4.76	0.83	0.554	.46-1.52	
<i>Rhyacophila Hyalinta Group</i>	--	--	--	--	--	--	
<i>Rhyacophila malkini</i>	0.97	0.904	.62-1.53	0.49	0.031	.26-.94	
<i>Serratella micheneri</i>	0.43	0.34	.07-2.45	0.28	0.113	.06-1.36	
<i>Simulium</i>	0.82	0.697	.29-2.27	0.50	0.14	.2-1.26	
<i>Zaitzevia</i>	2.02	0.044	1.02-4.01	0.83	0.769	.24-2.89	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-125. Ratios of Ratios (After/Before) of Cresta vs. UNF Macroinvertebrate Densities – 2007.

Species	Ratio of Cresta After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
<i>Acentrella</i>	0.55	0.275	.19-1.61	5
<i>Antocha</i>	0.72	0.356	.35-1.46	4
<i>Baetis tricaudatus</i>	0.38	0.205	.08-1.7	3
<i>Calineuria californica</i>	--	--	--	2
<i>Camelobaetidius</i>	1.80	0.296	.6-5.44	1.2
<i>Ceraclea</i>	0.30	0.083	.07-1.17	0.8
<i>Cheumatopsyche</i>	0.64	0.479	.18-2.21	0.5
<i>Chimarra</i>	0.45	0.454	.06-3.64	0.1
Chironomidae	0.71	0.297	.37-1.35	
<i>Epeorus</i>	0.35	0.081	.11-1.13	
<i>Ephemerella excrucians</i>	0.11	0.003	.03-.47	
<i>Ephemerella sensu lata</i>	--	--	--	
<i>Glossosoma</i>	0.85	0.77	.27-2.62	
<i>Hemerodromia</i>	0.73	0.698	.15-3.58	
<i>Heptagenia</i>	0.35	0.077	.11-1.12	
<i>Hesperoperla pacifica</i>	1.54	0.466	.48-4.88	
<i>Homoleptohyphes</i>	1.91	0.358	.48-7.55	
<i>Hydropsyche</i>	0.68	0.432	.26-1.77	
<i>Hydroptila</i>	1.12	0.817	.42-2.99	
<i>Isoperla</i>	0.65	0.566	.15-2.81	
<i>Leucotrichia pictipes</i>	0.82	0.626	.37-1.82	
<i>Ochrotrichia</i>	1.22	0.742	.37-3.97	
<i>Optioservus</i>	0.56	0.584	.07-4.45	
<i>Petrophila</i>	0.47	0.384	.09-2.55	
<i>Protophila</i>	1.54	0.367	.6-3.93	
<i>Psychomyia</i>	1.00	0.997	.29-3.5	
<i>Rhyacophila Angelita Group</i>	0.90	0.15	.77-1.04	
<i>Rhyacophila Coloradensis Group</i>	0.58	0.352	.18-1.84	
<i>Rhyacophila Hyalinta Group</i>	--	--	--	
<i>Rhyacophila malkini</i>	0.50	0.024	.28-.91	
<i>Serratella micheneri</i>	0.65	0.533	.16-2.55	
<i>Simulium</i>	0.61	0.08	.35-1.06	
<i>Zaitzevia</i>	0.41	0.149	.12-1.38	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-126. Results of Variance Tests for 2007 Macroinvertebrate Taxa Before and After Recreational Flow Releases.

Taxon	Sampling Period	Rock Creek				Cresta				UNF			
		Variance				Variance				Variance			
		Before	After	Ratio (A/B)	P-value	Before	After	Ratio (A/B)	P-value	Before	After	Ratio (A/B)	P-value
<i>Acentrella</i>	August	0.21	0.17	0.82	0.85	0.00	0.11	27.25	0.01	0.04	0.10	2.55	0.56
<i>Antocha</i>	August	0.06	0.06	1.05	0.97	0.13	0.15	1.16	0.89	0.02	0.03	1.44	0.81
<i>Baetis tricaudatus</i>	August	0.34	0.39	1.15	0.90	0.23	0.64	2.81	0.34	0.26	0.03	0.10	0.18
<i>Calineuria californica</i>	August	--	--		--	--	--		--	--	--		--
<i>Camelobaetidius</i>	August	0.03	0.08	2.44	0.41	0.08	0.04	0.44	0.44	0.00	0.10	50.50	0.04
<i>Ceraclea</i>	August	0.06	0.21	3.85	0.22	0.25	0.46	1.85	0.57	0.24	0.34	1.42	0.82
<i>Cheumatopsyche</i>	August	0.00	0.01	3.00	0.33	0.19	0.05	0.27	0.23	0.02	0.08	5.20	0.32
<i>Chimarra</i>	August	0.79	0.30	0.38	0.37	0.80	0.62	0.77	0.81	0.18	0.58	3.23	0.47
Chironomidae	August	0.03	0.04	1.57	0.67	0.06	0.01	0.25	0.22	0.01	0.02	3.20	0.45
<i>Epeorus</i>	August	0.07	0.65	9.08	0.06	0.21	1.01	4.73	0.16	0.27	0.05	0.18	0.30
<i>Ephemerella excrucians</i>	August	0.33	0.50	1.53	0.69	0.08	0.37	4.63	0.17	0.25	0.05	0.21	0.35
<i>Ephemerella sensu lata</i>	August	--	--		--	--	--		--	--	--		--
<i>Glossosoma</i>	August	0.50	0.64	1.26	0.83	0.15	0.45	2.93	0.32	0.01	0.01	0.50	0.66
<i>Hemerodromia</i>	August	0.20	0.23	1.14	0.91	0.14	0.02	0.14	0.09	0.05	0.03	0.52	0.69
<i>Homoleptohyphes</i>	August	0.43	0.07	0.15	0.10	0.14	0.08	0.59	0.62	0.05	0.05	0.96	0.98
<i>Hydropsyche</i>	August	0.20	0.11	0.54	0.57	0.23	0.46	1.99	0.52	0.06	0.03	0.57	0.72
<i>Hydroptila</i>	August	0.09	0.23	2.70	0.36	0.12	0.07	0.57	0.60	0.06	0.05	0.79	0.88
<i>Isoperla</i>	August	0.50	0.69	1.38	0.76	0.41	0.87	2.11	0.49	0.03	0.26	8.13	0.22
<i>Leucotrichia pictipes</i>	August	0.02	0.02	0.65	0.69	0.03	0.06	1.87	0.55	0.14	0.15	1.11	0.95
<i>Ochrotrichia</i>	August	0.43	0.53	1.24	0.84	0.45	0.32	0.71	0.75	0.07	0.10	1.49	0.80
<i>Optioservus</i>	August	0.39	0.11	0.27	0.23	0.66	1.01	1.54	0.69	0.52	0.26	0.49	0.66
<i>Petrophila</i>	August	0.01	0.46	92.80	0.001	0.17	0.17	0.99	1.00	0.12	0.19	1.54	0.79
<i>Protophila</i>	August	0.48	0.04	0.08	0.03	--	--		--	0.05	0.12	2.38	0.59
<i>Psychomyia</i>	August	0.13	0.28	2.15	0.48	0.31	0.28	0.88	0.91	0.37	0.63	1.72	0.74

Table 5.1-126. Results of Variance Tests for 2007 Macroinvertebrate Taxa Before and After Recreational Flow Releases (continued).

Taxon	Sampling Period	Rock Creek				Cresta				UNF			
		Variance				Variance				Variance			
		Before	After	Ratio (A/B)	P-value	Before	After	Ratio (A/B)	P-value	Before	After	Ratio (A/B)	P-value
<i>Rhyacophila angelita</i> Group	August	--	--		--	--		--	--	--	--		--
<i>Rhyacophila coloradensis</i> Group	August	--	--		--	--		--	--	--	--		--
<i>Rhyacophila hyalinta</i> Group	August	--	--		--	--		--	--	--	--		--
<i>Rhyacophila malkini</i>	August	0.05	0.06	1.11	0.93	0.22	0.16	0.70	0.73	0.07	0.03	0.48	0.65
<i>Serratella micheneri</i>	August	0.49	0.57	1.17	0.88	0.10	0.03	0.27	0.24	0.06	0.07	1.16	0.93
<i>Simulium</i>	August	0.17	0.15	0.87	0.90	0.29	0.49	1.69	0.63	0.29	0.10	0.34	0.51
<i>Zaitzevia</i>	August	0.16	0.06	0.39	0.38	0.56	0.35	0.62	0.65	0.16	0.09	0.55	0.71
<i>Acentrella</i>	September	0.26	0.26	1.02	0.98	0.04	0.05	1.12	0.92	0.06	0.04	0.62	0.76
<i>Antocha</i>	September	0.07	0.09	1.26	0.83	0.03	0.02	0.57	0.61	0.08	0.00	0.01	0.02
<i>Baetis tricaudatus</i>	September	0.45	0.50	1.09	0.94	0.17	0.11	0.62	0.65	0.72	0.09	0.12	0.22
<i>Calineuria californica</i>	September	--	--		--	--	--		--	--	--		--
<i>Camelobaetidius</i>	September	0.05	0.49	10.32	0.05	0.45	0.05	0.11	0.05	0.12	0.65	5.64	0.30
<i>Ceraclea</i>	September	0.58	0.34	0.58	0.61	0.42	0.21	0.51	0.53	--	--		--
<i>Cheumatopsyche</i>	September	0.05	0.02	0.53	0.55	0.15	0.08	0.55	0.58	0.23	0.02	0.10	0.19
<i>Chimarra</i>	September	0.74	0.99	1.35	0.78	0.88	0.43	0.49	0.51	0.63	0.11	0.17	0.29
Chironomidae	September	0.02	0.03	1.26	0.83	0.02	0.03	1.13	0.90	0.07	0.03	0.39	0.55
<i>Epeorus</i>	September	0.87	0.28	0.32	0.30	0.49	0.31	0.63	0.67	0.34	0.01	0.03	0.06
<i>Ephemerella excrucians</i>	September	--	--		--	--	--		--	--	--		--
<i>Ephemerella sensu lata</i>	September	--	--		--	--	--		--	--	--		--
<i>Glossosoma</i>	September	0.14	0.19	1.36	0.77	0.23	0.13	0.55	0.57	0.05	0.18	4.00	0.40
<i>Hemerodromia</i>	September	0.12	0.09	0.75	0.78	0.96	0.03	0.03	0.01	0.27	0.02	0.08	0.15
<i>Homoleptohyphes</i>	September	0.11	0.07	0.65	0.68	0.27	0.07	0.25	0.21	0.09	0.67	7.34	0.24

Table 5.1-126. Results of Variance Tests for 2007 Macroinvertebrate Taxa Before and After Recreational Flow Releases (continued).

Taxon	Sampling Period	Rock Creek				Cresta				UNF			
		Variance				Variance				Variance			
		Before	After	Ratio (A/B)	P-value	Before	After	Ratio (A/B)	P-value	Before	After	Ratio (A/B)	P-value
<i>Hydropsyche</i>	September	0.21	0.24	1.12	0.92	0.23	0.12	0.52	0.54	0.22	0.01	0.03	0.06
<i>Hydrotilla</i>	September	0.17	0.02	0.15	0.09	0.03	0.02	0.47	0.47	0.40	0.12	0.29	0.45
<i>Isoperla</i>	September	0.68	0.21	0.31	0.28	0.94	0.32	0.34	0.33	0.86	0.00	0.00	0.01
<i>Leucotrichia pictipes</i>	September	0.05	0.20	3.69	0.24	0.10	0.16	1.71	0.62	0.60	0.80	1.34	0.86
<i>Ochrotrichia</i>	September	0.62	0.21	0.33	0.31	0.25	0.08	0.30	0.28	0.05	0.84	18.60	0.10
<i>Optioservus</i>	September	0.25	0.87	3.45	0.26	0.96	0.21	0.22	0.17	0.08	0.17	2.09	0.65
<i>Petrophila</i>	September	0.11	0.53	4.68	0.17	0.28	0.60	2.16	0.47	0.90	0.14	0.16	0.27
<i>Protophila</i>	September	0.50	0.33	0.67	0.71	--	--	--	--	0.14	0.05	0.33	0.50
<i>Psychomyia</i>	September	0.06	0.12	2.10	0.49	0.44	0.09	0.20	0.15	0.58	0.99	1.71	0.74
<i>Rhyacophila angelita</i> Group	September	--	--		--	--	--		--	--	--		--
<i>Rhyacophila coloradensis</i> Group	September	--	--		--	--	--		--	0.19	0.81	4.28	0.38
<i>Rhyacophila hyalinta</i> Group	September	--	--		--	--	--		--	--	--		--
<i>Rhyacophila malkini</i>	September	0.12	0.26	2.14	0.48	0.05	0.28	5.09	0.14	0.07	0.03	0.40	0.56
<i>Serratella micheneri</i>	September	0.02	0.26	12.80	0.03	0.63	0.33	0.53	0.55	0.62	0.18	0.29	0.45
<i>Simulium</i>	September	0.41	0.78	1.89	0.55	0.25	0.17	0.67	0.71	0.57	1.08	1.89	0.69
<i>Zaitzevia</i>	September	0.14	0.20	1.45	0.73	0.53	1.26	2.40	0.42	0.11	0.09	0.76	0.87

Table 5.1-127. Results of One-Way ANOVA for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Releases, August and September 2007.

Reach	August Before			August After			P-value	September Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper		Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	516.18	284.15	748.22	1,115.34	188.15	2,042.53	0.20	817.82	478.78	1,156.86	1,324.06	791.45	1,856.66	0.20
Cresta	605.65	265.22	946.07	1,245.20	302.40	2,188.01	0.21	3,313.52	0.00	7,295.43	1,635.86	866.87	2,404.85	0.32
Upper North Fork	596.61	370.69	822.53	921.45	443.57	1,399.32	0.26	1,225.22	268.37	2,182.06	964.12	586.67	1,341.57	0.71

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-128. Results of One-Way ANOVA for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) of Large Macroinvertebrate in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			August After			P-value	September Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper		Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	109.17	44.18	174.15	159.58	85.08	234.08	0.28	153.30	65.61	240.98	218.93	51.45	386.41	0.47
Cresta	204.17	0.00	414.33	154.80	60.46	249.13	0.63	289.55	62.44	516.66	236.01	67.79	404.24	0.68
Upper North Fork	90.44	43.30	137.58	123.87	72.14	175.59	0.29	103.52	24.73	182.32	87.05	51.64	122.46	0.98

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-129. Results of One-Way ANOVA for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) of Small Macroinvertebrate in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			August After			P-value	September Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper		Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	414.30	235.50	593.09	966.41	48.21	1,884.60	0.22	674.75	413.22	936.27	1,105.12	692.88	1,517.37	0.07
Cresta	442.31	210.83	673.79	1,111.05	185.36	2,036.74	0.14	3,062.57	0.00	6,875.27	1,399.85	763.35	2,036.34	0.36
Upper North Fork	506.17	315.38	696.95	797.58	340.98	1,254.18	0.19	1,121.69	155.53	2,087.85	886.74	533.87	1,239.61	0.61

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-130. Results of Long Term One-Way ANOVA for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	516.18	284.15	748.22	1,324.06	791.45	1,856.66	0.00
Cresta	605.65	265.22	946.07	1,635.86	866.87	2,404.85	0.01
Upper North Fork	596.61	370.69	822.53	964.12	586.67	1,341.57	0.07

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-131. Results of Long Term Statistical Comparisons for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) of Large Macroinvertebrate (>15 mm) in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	109.17	44.18	174.15	218.93	51.45	386.41	0.21
Cresta	204.17	0.00	414.33	236.01	67.79	404.24	0.80
Upper North Fork	90.44	43.30	137.58	87.05	51.64	122.46	0.90

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-132. Results of Long Term One-Way ANOVA for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) of Small Macroinvertebrate (<15 mm) in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	414.30	235.50	593.09	1,105.12	692.88	1,517.37	0.01
Cresta	442.31	210.83	673.79	1,399.85	763.35	2,036.34	0.01
Upper North Fork	506.17	315.38	696.95	886.74	533.87	1,239.61	0.04

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-133. Results of Paired t-Test for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			August After			P-value	September Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper		Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	516.18	284.15	748.22	1,115.34	188.15	2,042.53	0.90	817.82	478.78	1,156.86	1,324.06	791.45	1,856.66	0.99
Cresta	605.65	265.22	946.07	1,245.20	302.40	2,188.01	0.89	3,313.52	0.00	7,295.43	1,635.86	866.87	2,404.85	0.54
Upper North Fork	596.61	370.69	822.53	921.45	443.57	1,399.32	0.77	1,225.22	268.37	2,182.06	964.12	586.67	1,341.57	0.49

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-134. Results of Paired t-Test for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) of Large Macroinvertebrate in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			August After			P-value	September Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper		Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	109.17	44.18	174.15	159.58	85.08	234.08	0.91	153.30	65.61	240.98	218.93	51.45	386.41	0.88
Cresta	204.17	0.00	414.33	154.80	60.46	249.13	0.85	289.55	62.44	516.66	236.01	67.79	404.24	0.75
Upper North Fork	90.44	43.30	137.58	123.87	72.14	175.59	0.84	103.52	24.73	182.32	87.05	51.64	122.46	0.43

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-135. Results of Paired t-Test for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) of Small Macroinvertebrate in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			August After			P-value	September Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper		Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	414.30	235.50	593.09	966.41	48.21	1,884.60	0.89	674.75	413.22	936.27	1,105.12	692.88	1,517.37	0.99
Cresta	442.31	210.83	673.79	1,111.05	185.36	2,036.74	0.91	3,062.57	0.00	6,875.27	1,399.85	763.35	2,036.34	0.50
Upper North Fork	506.17	315.38	696.95	797.58	340.98	1,254.18	0.76	1,121.69	155.53	2,087.85	886.74	533.87	1,239.61	0.53

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-136. Results of Long Term Paired t-Test for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	516.18	284.15	748.22	1,324.06	791.45	1,856.66	0.94
Cresta	605.65	265.22	946.07	1,635.86	866.87	2,404.85	0.99
Upper North Fork	596.61	370.69	822.53	964.12	586.67	1,341.57	0.92

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-137. Results of Long Term Paired t-Test for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) of Large Macroinvertebrate (>15 mm) in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	109.17	44.18	174.15	218.93	51.45	386.41	0.81
Cresta	204.17	0.00	414.33	236.01	67.79	404.24	0.91
Upper North Fork	90.44	43.30	137.58	87.05	51.64	122.46	0.39

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-138. Results of Long Term Paired t-Test for Mean Macroinvertebrate Ash-Free Dry Mass Density (mg/m²) of Small Macroinvertebrate (<15 mm) in the Rock Creek, Cresta and Upper North Fork Reaches of the North Fork Feather River, Before and After Recreational Flow Release, August and September 2007.

Reach	August Before			September After			P-value
	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Mean	95% C.I. ¹ Lower	95% C.I. Upper	
Rock Creek	414.30	235.50	593.09	1,105.12	692.88	1,517.37	0.99
Cresta	442.31	210.83	673.79	1,399.85	763.35	2,036.34	1.00
Upper North Fork	506.17	315.38	696.95	886.74	533.87	1,239.61	0.92

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-139. Ratio of After/Before for AFDM Densities with Overall Test of Difference in these Ratios – 2007.

Group	Rock Creek (After/Before)	p-value	Cresta (After/Before)	p-value	UNF (After/Before)	p-value	Overall p-value	Legend
Large AFDM	1.61	0.029	2.34	0.168	1.34	0.418	0.687	3
Small AFDM	2.09	0.022	1.90	0.118	1.57	0.343	0.858	2
Total AFDM	2.01	0.016	1.84	0.145	1.50	0.377	0.836	1.2
								0.8
								0.5
								0.1

Table 5.1-140. Ratios of Ratios (After/Before) of Rock Creek vs. Reference Reaches for AFDM Densities– 2007.

Group	Ratio of Rock Creek After/Before / Cresta After/Before	p-value	95% Confidence Interval of Ratio	Ratio of Rock Creek After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
Large AFDM	0.69	0.51	.23-2.1	1.20	0.592	.62-2.32	3
Small AFDM	1.10	0.83	.47-2.58	1.33	0.582	.48-3.66	2
Total AFDM	1.09	0.839	.46-2.57	1.35	0.549	.51-3.55	1.2
							0.8
							0.5
							0.1

Table 5.1-141. Ratios of Ratios (After/Before) of Cresta vs. UNF for AFDM Densities – 2007.

Group	Ratio of Cresta After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
Large AFDM	1.74	0.386	.5-6.11	3
Small AFDM	1.21	0.746	.38-3.83	2
Total AFDM	1.23	0.721	.39-3.86	1.2
				0.8
				0.5
				0.1

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-142a. Comparison of Collector Gatherer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,118.09	574.16	1,662.02	P=0.23
AFTER	1,417.28	361.52	2,473.04	
BEFORE	818.90	80.06	1,557.74	

Table 5.1-142b. Comparison of Collector Gatherer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,418.67	712.89	4,124.46	*P=0.60
AFTER	3,144.61	0.00	7,177.03	
BEFORE	1,692.73	495.92	2,889.55	

Table 5.1-142c. Comparison of Collector Gatherer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,258.08	601.61	1,914.55	P=0.43
AFTER	1,489.67	0.00	3,517.66	
BEFORE	1,026.49	61.50	1,991.47	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-143a. Comparison of Collector Filterer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	983.69	598.80	1,368.58	P=0.60
AFTER	1,079.35	428.85	1,729.84	
BEFORE	888.04	149.27	1,626.80	

Table 5.1-143b. Comparison of Collector Filterer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,120.15	486.43	3,753.88	P=0.28
AFTER	2,942.98	0.00	6,504.51	
BEFORE	1,297.32	0.00	2,970.25	

Table 5.1-143c. Comparison of Collector Filterer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,697.67	888.66	2,506.67	P=0.86
AFTER	1,761.44	0.00	3,711.00	
BEFORE	1,633.89	0.00	3,934.36	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-144a. Comparison of Macrophyte Herbivore Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.74	0.00	4.68	P=0.58
AFTER	0.96	0.00	3.62	
BEFORE	2.53	0.00	9.54	

Table 5.1-144b. Comparison of Macrophyte Herbivore Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.22	0.00	3.82	*P=0.14
AFTER	0.00	0.00	0.00	
BEFORE	1.22	0.00	3.82	

Table 5.1-144c. Comparison of Macrophyte Herbivore Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.91	0.00	8.58	P=0.54
AFTER	4.49	0.00	23.79	
BEFORE	1.33	0.00	7.05	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-145a. Comparison of Parasite Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-145b. Comparison of Parasite Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-145c. Comparison of Parasite Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-146a. Comparison of Piercer Herbivore Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	891.57	117.55	1,665.60	P=0.15
AFTER	1,390.48	0.00	3,133.65	
BEFORE	392.67	141.30	644.04	

Table 5.1-146b. Comparison of Piercer Herbivore Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	243.48	138.15	348.81	P=0.13
AFTER	315.15	113.09	517.21	
BEFORE	171.81	51.08	292.54	

Table 5.1-146c. Comparison of Piercer Herbivore Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	535.16	263.37	806.95	P=0.40
AFTER	636.56	0.00	1,353.69	
BEFORE	433.75	0.00	1,008.33	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-147a. Comparison of Predator Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	125.38	72.94	177.82	P=0.07
AFTER	166.38	91.54	241.22	
BEFORE	84.38	3.39	165.38	

Table 5.1-147b. Comparison of Predator Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	125.62	49.33	201.90	P=0.39
AFTER	156.70	0.00	320.49	
BEFORE	94.54	0.22	188.86	

Table 5.1-147c. Comparison of Predator Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	86.76	54.88	118.64	P=0.52
AFTER	96.07	1.57	190.57	
BEFORE	77.45	16.62	138.28	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-148a. Comparison of Scraper Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,446.30	1,950.74	2,941.86	P=0.56
AFTER	2,585.09	1,529.47	3,640.70	
BEFORE	2,307.51	1,617.49	2,997.53	

Table 5.1-148b. Comparison of Scraper Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,640.27	1,004.73	2,275.81	P=0.02
AFTER	2,231.56	1,124.82	3,338.29	
BEFORE	1,048.98	642.03	1,455.94	

Table 5.1-148c. Comparison of Scraper Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,718.07	1,234.93	2,201.22	P=0.71
AFTER	1,799.32	265.41	3,333.23	
BEFORE	1,636.83	745.28	2,528.38	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 149a. Comparison of Shredder Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.18	0.00	2.91	*P=0.37
AFTER	0.12	0.00	0.45	
BEFORE	2.24	0.00	6.23	

Table 5.1-149b. Comparison of Shredder Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.06	0.00	0.21	*P=0.32
AFTER	0.13	0.00	0.48	
BEFORE	0.00	0.00	0.00	

Table 5.1-149c. Comparison of Shredder Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	9.54	0.00	19.31	P=0.96
AFTER	9.31	0.00	29.54	
BEFORE	9.77	0.00	40.22	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-150a. Comparison of Unknown Feeder Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,559.07	1,686.13	3,432.02	P=0.17
AFTER	3,101.31	1,346.45	4,856.16	
BEFORE	2,016.84	1,040.71	2,992.96	

Table 5.1-150b. Comparison of Unknown Feeder Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,273.72	1,540.24	3,007.20	P=0.01
AFTER	3,007.54	2,122.43	3,892.66	
BEFORE	1,539.89	652.25	2,427.54	

Table 5.1-150c. Comparison of Unknown Feeder Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,757.28	1,236.21	2,278.35	P=0.17
AFTER	2,049.88	651.27	3,448.49	
BEFORE	1,464.68	952.48	1,976.88	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-151a. Comparison of Collector Gatherer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,528.46	1,329.51	3,727.41	P=0.57
AFTER	2,855.67	499.60	5,211.75	
BEFORE	2,201.26	256.91	4,145.60	

Table 5.1-151b. Comparison of Collector Gatherer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	6,231.63	3,592.23	8,871.03	P=0.74
AFTER	6,651.38	2,590.93	10,711.83	
BEFORE	5,811.88	329.47	11,294.29	

Table 5.1-151c. Comparison of Collector Gatherer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,093.71	1,020.55	3,166.88	P=0.95
AFTER	2,063.95	1,181.56	2,946.34	
BEFORE	2,123.48	0.00	6,039.83	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-152a. Comparison of Collector Filterer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,676.11	890.94	4,461.29	P=0.58
AFTER	3,153.63	0.00	7,274.17	
BEFORE	2,198.60	263.40	4,133.80	

Table 5.1-152b. Comparison of Collector Filterer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	7,036.04	1,886.91	12,185.17	P=0.68
AFTER	6,014.61	317.28	11,711.94	
BEFORE	8,057.47	0.00	20,026.00	

Table 5.1-152c. Comparison of Collector Filterer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	5,948.93	1,711.78	10,186.09	P=0.73
AFTER	6,611.62	0.00	16,968.75	
BEFORE	5,286.25	0.00	16,952.19	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-153a. Comparison of Macrophyte Herbivore Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.15	0.00	8.10	P=0.35
AFTER	0.00	0.00	0.00	
BEFORE	2.15	0.00	8.10	

Table 5.1-153b. Comparison of Macrophyte Herbivore Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.23	0.00	9.10	*P=0.14
AFTER	0.00	0.00	0.00	
BEFORE	3.23	0.00	9.10	

Table 5.1-153c. Comparison of Macrophyte Herbivore Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.54	0.00	2.88	P=0.37
AFTER	0.54	0.00	2.88	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-154a. Comparison of Parasite Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-154b. Comparison of Parasite Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-154c. Comparison of Parasite Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-155a. Comparison of Piercer Herbivore Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,074.45	723.73	1,425.17	P=0.89
AFTER	1,051.30	609.99	1,492.60	
BEFORE	1,097.61	299.49	1,895.72	

Table 5.1-155b. Comparison of Piercer Herbivore Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	579.59	406.16	753.02	P=0.19
AFTER	683.62	425.91	941.34	
BEFORE	475.55	166.11	784.99	

Table 5.1-155c. Comparison of Piercer Herbivore Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	343.87	39.68	648.06	P=0.35
AFTER	221.01	0.00	635.27	
BEFORE	466.72	0.00	1,386.07	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-156a. Comparison of Predator Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	159.03	83.76	234.30	P=0.35
AFTER	192.37	47.70	337.04	
BEFORE	125.69	10.84	240.55	

Table 5.1-156b. Comparison of Predator Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	198.85	40.35	357.35	P=0.98
AFTER	200.87	0.00	419.15	
BEFORE	196.83	0.00	547.03	

Table 5.1-156c. Comparison of Predator Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	179.51	58.78	300.23	P=0.84
AFTER	190.83	134.62	247.04	
BEFORE	168.18	0.00	613.87	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-157a. Comparison of Scraper Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,187.95	545.23	1,830.67	P=0.72
AFTER	1,299.74	0.00	2,811.04	
BEFORE	1,076.16	392.03	1,760.29	

Table 5.1-157b. Comparison of Scraper Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,192.73	761.30	1,624.16	P=0.48
AFTER	1,047.48	417.74	1,677.21	
BEFORE	1,337.98	452.63	2,223.34	

Table 5.1-157c. Comparison of Scraper Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,471.23	595.56	2,346.91	P=0.74
AFTER	1,336.22	0.00	2,901.38	
BEFORE	1,606.24	0.00	4,426.59	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-158a. Comparison of Shredder Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.94	0.00	9.44	P=0.33
AFTER	5.89	0.00	21.78	
BEFORE	0.00	0.00	0.00	

Table 5.1-158b. Comparison of Shredder Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.19	0.00	0.41	P=0.51
AFTER	0.12	0.00	0.47	
BEFORE	0.26	0.00	0.71	

Table 5.1-158c. Comparison of Shredder Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	24.89	9.06	40.71	P=0.44
AFTER	30.29	0.00	69.41	
BEFORE	19.48	0.00	57.39	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-159a. Comparison of Unknown Feeder Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3,381.77	2,508.88	4,254.66	P=0.92
AFTER	3,422.85	1,687.94	5,157.75	
BEFORE	3,340.69	1,874.91	4,806.47	

Table 5.1-159b. Comparison of Unknown Feeder Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,823.80	3,550.04	6,097.55	P=0.24
AFTER	5,511.73	2,990.18	8,033.27	
BEFORE	4,135.86	2,457.81	5,813.92	

Table 5.1-159c. Comparison of Unknown Feeder Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,687.26	915.44	2,459.07	P=0.90
AFTER	1,641.68	0.00	3,547.85	
BEFORE	1,732.83	0.00	3,894.47	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-160a. Comparison of Collector Gatherer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,118.09	574.16	1,662.02	P=0.001
AFTER	1,417.28	361.52	2,473.04	
BEFORE	818.90	80.06	1,557.74	

Table 5.1-160b. Comparison of Collector Gatherer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,418.67	712.89	4,124.46	*P=0.60
AFTER	3,144.61	0.00	7,177.03	
BEFORE	1,692.73	495.92	2,889.55	

Table 5.1-160c. Comparison of Collector Gatherer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,258.08	601.61	1,914.55	P=0.70
AFTER	1,489.67	0.00	3,517.66	
BEFORE	1,026.49	61.50	1,991.47	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-161a. Comparison of Collector Filterer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	983.69	598.80	1,368.58	P=0.87
AFTER	1,079.35	428.85	1,729.84	
BEFORE	888.04	149.27	1,626.80	

Table 5.1-161b. Comparison of Collector Filterer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,120.15	486.43	3,753.88	P=0.91
AFTER	2,942.98	0.00	6,504.51	
BEFORE	1,297.32	0.00	2,970.25	

Table 5.1-161c. Comparison of Collector Filterer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,697.67	888.66	2,506.67	P=0.60
AFTER	1,761.44	0.00	3,711.00	
BEFORE	1,633.89	0.00	3,934.36	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-162a. Comparison of Macrophyte Herbivore Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.74	0.00	4.68	P=1.00
AFTER	0.96	0.00	3.62	
BEFORE	2.53	0.00	9.54	

Table 5.1-162b. Comparison of Macrophyte Herbivore Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.22	0.00	3.82	*P=0.14
AFTER	0.00	0.00	0.00	
BEFORE	1.22	0.00	3.82	

Table 5.1-162c. Comparison of Macrophyte Herbivore Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.91	0.00	8.58	P=0.79
AFTER	4.49	0.00	23.79	
BEFORE	1.33	0.00	7.05	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-163a. Comparison of Parasite Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-163b. Comparison of Parasite Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-163c. Comparison of Parasite Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-164a. Comparison of Piercer Herbivore Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	891.57	117.55	1,665.60	P=0.02
AFTER	1,390.48	0.00	3,133.65	
BEFORE	392.67	141.30	644.04	

Table 5.1-164b. Comparison of Piercer Herbivore Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	243.48	138.15	348.81	P=0.98
AFTER	315.15	113.09	517.21	
BEFORE	171.81	51.08	292.54	

Table 5.1-164c. Comparison of Piercer Herbivore Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	535.16	263.37	806.95	P=0.86
AFTER	636.56	0.00	1,353.69	
BEFORE	433.75	0.00	1,008.33	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-165a. Comparison of Predator Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	125.38	72.94	177.82	P=1.00
AFTER	166.38	91.54	241.22	
BEFORE	84.38	3.39	165.38	

Table 5.1-165b. Comparison of Predator Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	125.62	49.33	201.90	P=0.82
AFTER	156.70	0.00	320.49	
BEFORE	94.54	0.22	188.86	

Table 5.1-165c. Comparison of Predator Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	86.76	54.88	118.64	P=0.95
AFTER	96.07	1.57	190.57	
BEFORE	77.45	16.62	138.28	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-166a. Comparison of Scraper Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,446.30	1,950.74	2,941.86	P=0.001
AFTER	2,585.09	1,529.47	3,640.70	
BEFORE	2,307.51	1,617.49	2,997.53	

Table 5.1-166b. Comparison of Scraper Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,640.27	1,004.73	2,275.81	P=0.98
AFTER	2,231.56	1,124.82	3,338.29	
BEFORE	1,048.98	642.03	1,455.94	

Table 5.1-166c. Comparison of Scraper Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,718.07	1,234.93	2,201.22	P=0.57
AFTER	1,799.32	265.41	3,333.23	
BEFORE	1,636.83	745.28	2,528.38	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-167a. Comparison of Shredder Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.18	0.00	2.91	*P=0.37
AFTER	0.12	0.00	0.45	
BEFORE	2.24	0.00	6.23	

Table 5.1-167b. Comparison of Shredder Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.06	0.00	0.21	*P=0.32
AFTER	0.13	0.00	0.48	
BEFORE	0.00	0.00	0.00	

Table 5.1-167c. Comparison of Shredder Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	9.54	0.00	19.31	P=0.44
AFTER	9.31	0.00	29.54	
BEFORE	9.77	0.00	40.22	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-168a. Comparison of Unknown Feeder Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,559.07	1,686.13	3,432.02	P=0.03
AFTER	3,101.31	1,346.45	4,856.16	
BEFORE	2,016.84	1,040.71	2,992.96	

Table 5.1-168b. Comparison of Unknown Feeder Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,273.72	1,540.24	3,007.20	P=0.97
AFTER	3,007.54	2,122.43	3,892.66	
BEFORE	1,539.89	652.25	2,427.54	

Table 5.1-168c. Comparison of Unknown Feeder Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,757.28	1,236.21	2,278.35	P=0.83
AFTER	2,049.88	651.27	3,448.49	
BEFORE	1,464.68	952.48	1,976.88	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-169a. Comparison of Collector Gatherer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,528.46	1,329.51	3,727.41	P=0.87
AFTER	2,855.67	499.60	5,211.75	
BEFORE	2,201.26	256.91	4,145.60	

Table 5.1-169b. Comparison of Collector Gatherer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	6,231.63	3,592.23	8,871.03	P=0.84
AFTER	6,651.38	2,590.93	10,711.83	
BEFORE	5,811.88	329.47	11,294.29	

Table 5.1-169c. Comparison of Collector Gatherer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,093.71	1,020.55	3,166.88	P=0.61
AFTER	2,063.95	1,181.56	2,946.34	
BEFORE	2,123.48	0.00	6,039.83	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-170a. Comparison of Collector Filterer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,676.11	890.94	4,461.29	P=0.78
AFTER	3,153.63	0.00	7,274.17	
BEFORE	2,198.60	263.40	4,133.80	

Table 5.1-170b. Comparison of Collector Filterer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	7,036.04	1,886.91	12,185.17	P=0.43
AFTER	6,014.61	317.28	11,711.94	
BEFORE	8,057.47	0.00	20,026.00	

Table 5.1-170c. Comparison of Collector Filterer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	5,948.93	1,711.78	10,186.09	P=0.88
AFTER	6,611.62	0.00	16,968.75	
BEFORE	5,286.25	0.00	16,952.19	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-171a. Comparison of Macrophyte Herbivore Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.15	0.00	8.10	P=0.19
AFTER	0.00	0.00	0.00	
BEFORE	2.15	0.00	8.10	

Table 5.1-171b. Comparison of Macrophyte Herbivore Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007 (* = Kruskal – Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3.23	0.00	9.10	*P=0.14
AFTER	0.00	0.00	0.00	
BEFORE	3.23	0.00	9.10	

Table 5.1-171c. Comparison of Macrophyte Herbivore Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.54	0.00	2.88	P=0.79
AFTER	0.54	0.00	2.88	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-172a. Comparison of Parasite Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-172b. Comparison of Parasite Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-172c. Comparison of Parasite Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-173a. Comparison of Piercer Herbivore Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,074.45	723.73	1,425.17	P=0.69
AFTER	1,051.30	609.99	1,492.60	
BEFORE	1,097.61	299.49	1,895.72	

Table 5.1-173b. Comparison of Piercer Herbivore Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	579.59	406.16	753.02	P=0.92
AFTER	683.62	425.91	941.34	
BEFORE	475.55	166.11	784.99	

Table 5.1-173c. Comparison of Piercer Herbivore Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	343.87	39.68	648.06	P=0.27
AFTER	221.01	0.00	635.27	
BEFORE	466.72	0.00	1,386.07	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-174a. Comparison of Predator Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	159.03	83.76	234.30	P=0.95
AFTER	192.37	47.70	337.04	
BEFORE	125.69	10.84	240.55	

Table 5.1-174b. Comparison of Predator Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	198.85	40.35	357.35	P=0.90
AFTER	200.87	0.00	419.15	
BEFORE	196.83	0.00	547.03	

Table 5.1-174c. Comparison of Predator Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	179.51	58.78	300.23	P=0.74
AFTER	190.83	134.62	247.04	
BEFORE	168.18	0.00	613.87	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-175a. Comparison of Scraper Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,187.95	545.23	1,830.67	P=0.49
AFTER	1,299.74	0.00	2,811.04	
BEFORE	1,076.16	392.03	1,760.29	

Table 5.1-175b. Comparison of Scraper Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,192.73	761.30	1,624.16	P=0.08
AFTER	1,047.48	417.74	1,677.21	
BEFORE	1,337.98	452.63	2,223.34	

Table 5.1-175c. Comparison of Scraper Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,471.23	595.56	2,346.91	P=0.44
AFTER	1,336.22	0.00	2,901.38	
BEFORE	1,606.24	0.00	4,426.59	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-176a. Comparison of Shredder Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.94	0.00	9.44	P=0.85
AFTER	5.89	0.00	21.78	
BEFORE	0.00	0.00	0.00	

Table 5.1-176b. Comparison of Shredder Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.19	0.00	0.41	P=0.17
AFTER	0.12	0.00	0.47	
BEFORE	0.26	0.00	0.71	

Table 5.1-176c. Comparison of Shredder Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	24.89	9.06	40.71	P=0.90
AFTER	30.29	0.00	69.41	
BEFORE	19.48	0.00	57.39	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-177a. Comparison of Unknown Feeder Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3,381.77	2,508.88	4,254.66	P=0.55
AFTER	3,422.85	1,687.94	5,157.75	
BEFORE	3,340.69	1,874.91	4,806.47	

Table 5.1-177b. Comparison of Unknown Feeder Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,823.80	3,550.04	6,097.55	P=0.94
AFTER	5,511.73	2,990.18	8,033.27	
BEFORE	4,135.86	2,457.81	5,813.92	

Table 5.1-177c. Comparison of Unknown Feeder Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,687.26	915.44	2,459.07	P=0.49
AFTER	1,641.68	0.00	3,547.85	
BEFORE	1,732.83	0.00	3,894.47	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-178. Ratio of After/Before for Functional-Feeding Group Densities with Overall Test of Difference in these Ratios – 2007.

Group	Rock Creek (After/Before)	p-value	Cresta (After/Before)	p-value	UNF (After/Before)	p-value	Overall p-value	Legend
Collector Filterer	1.46	0.197	1.68	0.142	1.52	0.232	0.928	3
Collector Gatherer	1.62	0.002	1.48	0.187	1.39	0.469	0.906	2
Macrophyte Herbivore	0.82	0.695	0.57	0.132	1.60	0.2	0.124	1.2
Piercer Herbivore	2.42	0.001	2.32	0.001	1.30	0.479	0.388	0.8
Predator	2.08	0.025	1.79	0.177	1.50	0.085	0.69	0.5
Scraper	1.31	0.09	1.59	0.002	1.23	0.63	0.406	0.1
Shredder	0.78	0.627	0.73	0.119	0.90	0.793	0.68	
Unknown	1.51	0.001	2.04	0.001	1.42	0.225	0.241	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-179. Ratios of Ratios (After/Before) of Rock Creek vs. Reference Reaches for Functional-Feeding Group Densities – 2007.

Group	Ratio of Rock Creek After/Before / Cresta After/Before	p-value	95% Confidence Interval of Ratio	Ratio of Rock Creek After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
Collector Filterer	0.9	0.703	.43-1.78	0.96	0.921	.45-2.07	3
Collector Gatherer	1.1	0.748	.65-1.83	1.16	0.737	.49-2.78	2
Macrophyte Herbivore	1.4	0.511	.49-4.18	0.51	0.192	.19-1.4	1.2
Piercer Herbivore	1.0	0.876	.63-1.72	1.86	0.159	.79-4.39	0.8
Predator	1.2	0.738	.49-2.76	1.39	0.382	.66-2.92	0.5
Scraper	0.8	0.186	.62-1.1	1.07	0.888	.43-2.65	0.1
Shredder	1.1	0.899	.38-3.01	0.86	0.788	.28-2.64	
Unknown	0.7	0.078	.53-1.03	1.06	0.855	.58-1.94	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-180. Ratios of Ratios (After/Before) of Cresta vs. UNF for Functional-Feeding Group Densities – 2007.

Group	Ratio of Cresta After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
Collector Filterer	1.11	0.804	.5-2.44	3
Collector Gatherer	1.07	0.897	.4-2.82	2
Macrophyte Herbivore	0.36	0.029	.14-.9	1.2
Piercer Herbivore	1.78	0.189	.75-4.23	0.8
Predator	1.20	0.681	.5-2.86	0.5
Scraper	1.29	0.574	.53-3.15	0.1
Shredder	0.80	0.375	.49-1.31	
Unknown	1.44	0.292	.73-2.81	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-181a. Comparison of Burrower Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,792.53	1,895.45	3,689.61	P=0.17
AFTER	3,349.40	1,543.23	5,155.57	
BEFORE	2,235.66	1,236.82	3,234.50	

Table 5.1-181b. Comparison of Burrower Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal -Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,699.29	1,803.43	3,595.14	*P=0.03
AFTER	3,508.66	2,147.02	4,870.31	
BEFORE	1,889.91	859.73	2,920.10	

Table 5.1-181c. Comparison of Burrower Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,946.64	1,399.15	2,494.14	P=0.22
AFTER	2,228.87	741.35	3,716.40	
BEFORE	1,664.41	949.19	2,379.64	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-182a. Comparison of Climber Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-182b. Comparison of Climber Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-182c. Comparison of Climber Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.56	0.00	4.34	P=0.65
AFTER	2.13	0.00	11.29	
BEFORE	0.99	0.00	5.27	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-183a. Comparison of Clinger Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal -Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,491.94	3,373.65	5,610.23	*P=0.35
AFTER	5,256.77	2,881.69	7,631.84	
BEFORE	3,727.12	2,964.44	4,489.79	

Table 5.1-183b. Comparison of Clinger Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal -Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,162.37	1,890.91	6,433.84	*P=0.08
AFTER	5,677.83	967.32	10,388.34	
BEFORE	2,646.92	663.45	4,630.39	

Table 5.1-183c. Comparison of Clinger Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,166.10	2,924.25	5,407.94	P=0.58
AFTER	4,475.87	1,122.49	7,829.25	
BEFORE	3,856.32	926.93	6,785.71	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-184a. Comparison of Sprawler Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	71.44	39.46	103.43	P=0.42
AFTER	83.59	12.04	155.13	
BEFORE	59.30	23.98	94.62	

Table 5.1-184b. Comparison of Sprawler Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	38.60	17.24	59.96	P=0.16
AFTER	52.23	11.77	92.70	
BEFORE	24.96	0.00	52.14	

Table 5.1-184c. Comparison of Sprawler Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	34.39	20.49	48.30	P=0.36
AFTER	39.99	28.02	51.96	
BEFORE	28.80	0.00	73.35	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-185a. Comparison of Swimmer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	729.61	285.63	1,173.59	P=0.20
AFTER	989.83	121.16	1,858.51	
BEFORE	469.39	0.00	1,035.63	

Table 5.1-185b. Comparison of Swimmer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007 (* = Kruskal -Wallis p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,903.42	439.00	3,367.83	*P=0.75
AFTER	2,532.51	0.00	6,005.88	
BEFORE	1,274.32	301.03	2,247.61	

Table 5.1-185c. Comparison of Swimmer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	848.54	377.37	1,319.72	P=0.46
AFTER	1,004.99	0.00	2,404.44	
BEFORE	692.09	0.00	1,527.74	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-186a. Comparison of Unknown Habit Groups Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-186b. Comparison of Unknown Habit Groups Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-186c. Comparison of Unknown Habit Groups Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-187a. Comparison of Burrower Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3,567.59	2,657.67	4,477.52	P=0.94
AFTER	3,599.56	1,739.87	5,459.25	
BEFORE	3,535.62	2,069.29	5,001.96	

Table 5.1-187b. Comparison of Burrower Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	5,132.73	3,816.69	6,448.77	P=0.25
AFTER	5,836.06	3,255.80	8,416.31	
BEFORE	4,429.40	2,647.27	6,211.54	

Table 5.1-187c. Comparison of Burrower Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,673.37	982.88	2,363.85	P=0.83
AFTER	1,602.97	214.34	2,991.60	
BEFORE	1,743.77	0.00	3,902.14	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-188a. Comparison of Climber Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-188b. Comparison of Climber Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-188c. Comparison of Climber Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.32	0.00	6.33	P=0.71
AFTER	1.63	0.00	8.62	
BEFORE	3.01	0.00	15.95	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-189a. Comparison of Clinger Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	5,130.29	2,657.42	7,603.16	P=0.61
AFTER	5,729.85	0.00	11,487.14	
BEFORE	4,530.72	1,900.06	7,161.38	

Table 5.1-189b. Comparison of Clinger Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	9,022.10	3,288.67	14,755.53	P=0.70
AFTER	7,970.54	1,436.21	14,504.88	
BEFORE	10,073.65	0.00	23,335.27	

Table 5.1-189c. Comparison of Clinger Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	7,995.56	3,135.65	12,855.48	P=0.86
AFTER	8,387.26	0.00	18,281.62	
BEFORE	7,603.86	0.00	22,773.43	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-190a. Comparison of Sprawler Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	77.82	33.89	121.76	P=0.51
AFTER	91.55	0.00	186.55	
BEFORE	64.10	6.35	121.84	

Table 5.1-190b. Comparison of Sprawler Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	63.81	12.57	115.04	P=0.45
AFTER	45.35	19.16	71.54	
BEFORE	82.26	0.00	207.94	

Table 5.1-190c. Comparison of Sprawler Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	99.15	38.35	159.94	P=0.65
AFTER	111.84	69.89	153.78	
BEFORE	86.45	0.00	303.34	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-191a. Comparison of Swimmer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,154.07	1,026.26	3,281.89	P=0.57
AFTER	2,458.95	234.75	4,683.16	
BEFORE	1,849.19	27.96	3,670.43	

Table 5.1-191b. Comparison of Swimmer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	5,743.84	3,147.11	8,340.57	P=0.77
AFTER	6,109.25	1,979.19	10,239.31	
BEFORE	5,378.43	74.04	10,682.82	

Table 5.1-191c. Comparison of Swimmer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,804.49	843.58	2,765.40	P=0.95
AFTER	1,831.49	1,048.25	2,614.72	
BEFORE	1,777.49	0.00	5,285.68	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-192a. Comparison of Unknown Habit Groups Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-192b. Comparison of Unknown Habit Groups Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-192c. Comparison of Unknown Habit Groups Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, ANOVA, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-193a. Comparison of Burrower Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,792.53	1,895.45	3,689.61	P=0.96
AFTER	3,349.40	1,543.23	5,155.57	
BEFORE	2,235.66	1,236.82	3,234.50	

Table 5.1-193b. Comparison of Burrower Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal -Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,699.29	1,803.43	3,595.14	*P=0.03
AFTER	3,508.66	2,147.02	4,870.31	
BEFORE	1,889.91	859.73	2,920.10	

Table 5.1-193c. Comparison of Burrower Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,946.64	1,399.15	2,494.14	P=0.98
AFTER	2,228.87	741.35	3,716.40	
BEFORE	1,664.41	949.19	2,379.64	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-194a Comparison of Climber Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-194b. Comparison of Climber Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-194c. Comparison of Climber Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1.56	0.00	4.34	P=0.67
AFTER	2.13	0.00	11.29	
BEFORE	0.99	0.00	5.27	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-195a. Comparison of Clinger Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal -Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,491.94	3,373.65	5,610.23	*P=0.35
AFTER	5,256.77	2,881.69	7,631.84	
BEFORE	3,727.12	2,964.44	4,489.79	

Table 5.1-195b. Comparison of Clinger Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal -Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,162.37	1,890.91	6,433.84	*P=0.08
AFTER	5,677.83	967.32	10,388.34	
BEFORE	2,646.92	663.45	4,630.39	

Table 5.1-195c. Comparison of Clinger Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	4,166.10	2,924.25	5,407.94	P=0.19
AFTER	4,475.87	1,122.49	7,829.25	
BEFORE	3,856.32	926.93	6,785.71	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-196a. Comparison of Sprawler Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	71.44	39.46	103.43	P=0.68
AFTER	83.59	12.04	155.13	
BEFORE	59.30	23.98	94.62	

Table 5.1-196b. Comparison of Sprawler Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	38.60	17.24	59.96	P=0.86
AFTER	52.23	11.77	92.70	
BEFORE	24.96	0.00	52.14	

Table 5.1-196c. Comparison of Sprawler Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	34.39	20.49	48.30	P=0.70
AFTER	39.99	28.02	51.96	
BEFORE	28.80	0.00	73.35	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-197a. Comparison of Swimmer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	729.61	285.63	1,173.59	P=0.47
AFTER	989.83	121.16	1,858.51	
BEFORE	469.39	0.00	1,035.63	

Table 5.1-197b. Comparison of Swimmer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007 (* = Kruskal -Wallis two-sided p-value).

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,903.42	439.00	3,367.83	*P=0.75
AFTER	2,532.51	0.00	6,005.88	
BEFORE	1,274.32	301.03	2,247.61	

Table 5.1-197c. Comparison of Swimmer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	848.54	377.37	1,319.72	P=0.85
AFTER	1,004.99	0.00	2,404.44	
BEFORE	692.09	0.00	1,527.74	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-198a. Comparison of Unknown Habit Groups Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-198b. Comparison of Unknown Habit Groups Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-198c. Comparison of Unknown Habit Groups Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, August 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-199a. Comparison of Burrower Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	3,567.59	2,657.67	4,477.52	P=0.99
AFTER	3,599.56	1,739.87	5,459.25	
BEFORE	3,535.62	2,069.29	5,001.96	

Table 5.1-199b. Comparison of Burrower Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	5,132.73	3,816.69	6,448.77	P=0.99
AFTER	5,836.06	3,255.80	8,416.31	
BEFORE	4,429.40	2,647.27	6,211.54	

Table 5.1-199c. Comparison of Burrower Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,673.37	982.88	2,363.85	P=0.05
AFTER	1,602.97	214.34	2,991.60	
BEFORE	1,743.77	0.00	3,902.14	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-200a. Comparison of Climber Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-200b. Comparison of Climber Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-200c. Comparison of Climber Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2.32	0.00	6.33	P=0.99
AFTER	1.63	0.00	8.62	
BEFORE	3.01	0.00	15.95	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-201a. Comparison of Clinger Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	5,130.29	2,657.42	7,603.16	P=0.12
AFTER	5,729.85	0.00	11,487.14	
BEFORE	4,530.72	1,900.06	7,161.38	

Table 5.1-201b. Comparison of Clinger Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	9,022.10	3,288.67	14,755.53	P=0.16
AFTER	7,970.54	1,436.21	14,504.88	
BEFORE	10,073.65	0.00	23,335.27	

Table 5.1-201c. Comparison of Clinger Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	7,995.56	3,135.65	12,855.48	P=0.30
AFTER	8,387.26	0.00	18,281.62	
BEFORE	7,603.86	0.00	22,773.43	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-202a. Comparison of Sprawler Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	77.82	33.89	121.76	P=0.73
AFTER	91.55	0.00	186.55	
BEFORE	64.10	6.35	121.84	

Table 5.1-202b. Comparison of Sprawler Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	63.81	12.57	115.04	P=0.70
AFTER	45.35	19.16	71.54	
BEFORE	82.26	0.00	207.94	

Table 5.1-202c. Comparison of Sprawler Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	99.15	38.35	159.94	P=0.60
AFTER	111.84	69.89	153.78	
BEFORE	86.45	0.00	303.34	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-203a. Comparison of Swimmer Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	2,154.07	1,026.26	3,281.89	P=0.46
AFTER	2,458.95	234.75	4,683.16	
BEFORE	1,849.19	27.96	3,670.43	

Table 5.1-203b. Comparison of Swimmer Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	5,743.84	3,147.11	8,340.57	P=0.27
AFTER	6,109.25	1,979.19	10,239.31	
BEFORE	5,378.43	74.04	10,682.82	

Table 5.1-203c. Comparison of Swimmer Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	1,804.49	843.58	2,765.40	P=0.31
AFTER	1,831.49	1,048.25	2,614.72	
BEFORE	1,777.49	0.00	5,285.68	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-204a. Comparison of Unknown Habit Groups Density in the Rock Creek Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-204b. Comparison of Unknown Habit Groups Density in the Cresta Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

Table 5.1-204c. Comparison of Unknown Habit Groups Density in the Upper North Fork Reach of the North Fork Feather River, Before and After Recreational Flow Releases, Paired t-Test, September 2007.

	Mean	95% C.I. ¹ Lower	95% C.I. Upper	Result of Statistical Comparison
OVERALL	0.00	0.00	0.00	N/A
AFTER	0.00	0.00	0.00	
BEFORE	0.00	0.00	0.00	

¹ Lower 95% Confidence Intervals (C.I.) less than zero were set equal to zero.

Table 5.1-205. Ratio of After/Before for All Reaches with Overall Test of Difference in these Ratios for Habit Groups Densities– 2007.

Group	Rock Creek (After/Before)	p-value	Cresta (After/Before)	p-value	UNF (After/Before)	p-value	Overall p-value	Legend
Burrowers	1.46	0.001	1.94	0.001	1.37	0.261	0.288	3
Climbers	1.05	0.83	1.05	0.83	1.06	0.89	0.974	2
Clingers	1.46	0.038	1.69	0.028	1.46	0.204	0.815	1.2
Sprawlers	1.35	0.547	1.51	0.364	2.02	0.177	0.822	0.8
Swimmers	1.96	0.001	1.46	0.289	1.50	0.435	0.588	0.5
								0.1

Table 5.1-206. Ratios of Ratios (After/Before) of Rock Creek vs. Reference Reaches for Habit Groups Densities – 2007.

Group	Ratio of Rock Creek After/Before / Cresta After/Before	p-value	95% Confidence Interval of Ratio	Ratio of Rock Creek After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
Burrowers	0.75	0.103	.54-1.06	1.06	0.831	.6-1.89	2
Climbers	1.00	0.984	.8-1	0.99	0.973	.43-2.24	1.2
Clingers	0.87	0.537	.55-1.36	1.00	0.999	.55-1.82	0.8
Sprawlers	0.89	0.834	.3-2.62	0.67	0.53	.19-2.38	0.5
Swimmers	1.34	0.335	.74-2.44	1.31	0.602	.48-3.55	0.1

Table 5.1-207. Ratios of Ratios (After/Before) of Cresta vs. UNF for Habit Groups Densities – 2007.

Group	Ratio of Cresta After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
Burrowers	1.41	0.294	.74-2.7	2
Climbers	0.99	0.973	.43-2.24	1.2
Clingers	1.15	0.661	.61-2.19	0.8
Sprawlers	0.75	0.651	.21-2.66	0.5
Swimmers	0.97	0.96	.32-2.96	0.1

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-208. Ratio of After/Before for Smaller-Sized Macroinvertebrate Densities for All Reaches with Overall Test of Difference in these Ratios – 2007.

Species	Rock Creek (After/Before)	p-value	Cresta (After/Before)	p-value	UNF (After/Before)	p-value	Overall p- value	Legend
<i>Acentrella</i>	2.18	0.002	1.4	0.383	1.48	0.531	0.429	10
<i>Antocha</i>	1.37	0.093	1.3	0.363	1.21	0.591	0.921	5
<i>Baetis tricaudatus</i>	2.41	0.378	1.3	0.619	2.30	0.268	0.672	3
<i>Calineuria californica</i>								2
<i>Camelobaetidius</i>	0.67	0.495	5.1	0.001	0.91	0.896	0.057	1.2
<i>Ceraclea</i>	0.92	0.931	0.4	0.287	0.67	0.478	0.785	0.8
<i>Cheumatopsyche</i>	1.76	0.002	2.0	0.065	1.42	0.477	0.876	0.5
<i>Chimarra</i>	0.19	0.063	0.9	0.921	3.67	0.352	0.167	0.1
Chironomidae	1.54	0.001	1.8	0.003	1.50	0.148	0.694	
<i>Epeorus</i>	0.64	0.657	0.5	0.367	1.86	0.613	0.604	
<i>Glossosoma</i>	1.50	0.481	1.1	0.357	0.76	0.555	0.671	
<i>Hemerodromia</i>	0.55	0.667	0.8	0.775	1.73	0.713	0.834	
<i>Homoleptohyphes</i>	4.72	0.008	5.6	0.001	1.38	0.571	0.173	
<i>Hydropsyche</i>	1.18	0.683	1.4	0.433	0.91	0.762	0.651	
<i>Hydroptila</i>	3.28	0.003	4.9	0.001	1.40	0.634	0.261	
<i>Isoperla</i>	0.40	0.183	0.6	0.328	0.33	0.014	0.641	
<i>Leucotrichia pictipes</i>	1.16	0.535	1.6	0.153	1.70	0.188	0.606	
<i>Ochrotrichia</i>	4.51	0.301	1.3	0.789	11.57	0.001	0.083	
<i>Optioservus</i>	1.50	0.621	2.6	0.426	1.57	0.781	0.918	
<i>Petrophila</i>	0.54	0.438	0.8	0.722	0.42	0.467	0.782	
<i>Protoptila</i>	1.25	0.531	1.8	0.018	1.06	0.874	0.254	
<i>Psychomyia</i>	0.71	0.643	1.8	0.601	9.40	0.004	0.007	
<i>Rhyacophila</i>								
<i>Coloradensis Group</i>	1.21	0.602	0.5	0.112	2.14	0.197	0.241	
<i>Rhyacophila Hyalinta Group</i>	1.24	0.444	0.6	0.113	0.54	0.298	0.266	
<i>Rhyacophila malkini</i>	1.60	0.181	1.0	0.982	1.18	0.476	0.435	
<i>Serratella micheneri</i>	1.15	0.901	1.5	0.653	0.82	0.792	0.812	
<i>Simulium</i>	1.62	0.337	2.1	0.048	1.93	0.013	0.872	
<i>Zaitzevia</i>	3.64	0.009	2.7	0.252	1.97	0.418	0.717	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-209. Ratios of Ratios (After/Before) of Rock Creek vs. Reference Streams for Smaller-Sized Macroinvertebrate Densities– 2007.

Species	Ratio of Rock Creek After/Before / Cresta After/Before	p-value	95% Confidence Interval of Ratio	Ratio of Rock Creek After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
<i>Acentrella</i>	1.57	0.197	.79-3.09	1.47	0.54	.43-5.08	3
<i>Antocha</i>	1.09	0.764	.61-1.95	1.13	0.722	.57-2.26	2
<i>Baetis tricaudatus</i>	1.84	0.481	.34-9.93	1.05	0.965	.13-8.19	1.2
<i>Calineuria californica</i>			.-.			.-.	0.8
<i>Camelobaetidius</i>	0.13	0.016	.02-.68	0.74	0.748	.11-4.82	0.5
<i>Ceraclea</i>	2.25	0.501	.21-23.96	1.36	0.752	.2-9.22	0.1
<i>Cheumatopsyche</i>	0.90	0.781	.43-1.9	1.24	0.7	.41-3.71	
<i>Chimarra</i>	0.21	0.141	.03-1.68	0.05	0.049	0-.99	
Chironomidae	0.86	0.394	.62-1.21	1.03	0.923	.57-1.86	
<i>Epeorus</i>	1.20	0.84	.2-7.15	0.35	0.46	.02-5.77	
<i>Glossosoma</i>	1.36	0.639	.37-4.96	1.99	0.402	.4-9.87	
<i>Hemerodromia</i>	0.67	0.781	.04-11.12	0.32	0.553	.01-13.94	
<i>Homoleptohyphes</i>	0.84	0.751	.28-2.49	3.43	0.102	.78-14.99	
<i>Hydropsyche</i>	0.87	0.759	.36-2.12	1.31	0.578	.51-3.33	
<i>Hydroptila</i>	0.67	0.275	.33-1.37	2.34	0.329	.43-12.85	
<i>Isoperla</i>	0.65	0.641	.11-3.96	1.23	0.779	.29-5.25	
<i>Leucotrichia pictipes</i>	0.73	0.506	.29-1.84	0.68	0.371	.29-1.58	
<i>Ochrotrichia</i>	3.58	0.433	.15-87.37	0.39	0.511	.02-6.46	
<i>Optioservus</i>	0.58	0.683	.04-7.75	0.96	0.979	.04-23.84	
<i>Petrophila</i>	0.65	0.609	.12-3.44	1.29	0.842	.11-15.48	
<i>Protoptila</i>	0.69	0.342	.31-1.5	1.19	0.741	.43-3.29	
<i>Psychomyia</i>	0.39	0.413	.04-3.67	0.08	0.001	.02-.27	
<i>Rhyacophila Coloradensis</i> Group	2.29	0.164	.71-7.38	0.57	0.442	.13-2.42	
<i>Rhyacophila Hyalinta</i> Group	1.94	0.154	.78-4.83	2.31	0.137	.77-6.96	
<i>Rhyacophila malkini</i>	1.60	0.183	.8-3.18	1.36	0.372	.69-2.69	
<i>Serratella micheneri</i>	0.75	0.761	.12-4.85	1.39	0.768	.16-12.48	
<i>Simulium</i>	0.77	0.61	.28-2.12	0.84	0.71	.33-2.13	
<i>Zaitzevia</i>	1.34	0.671	.35-5.1	1.85	0.439	.39-8.76	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-210. Ratios of Ratios (After/Before) of Cresta vs. UNF for Smaller-Sized Macroinvertebrate Densities – 2007.

Species	Ratio of Cresta After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
<i>Acentrella</i>	0.94	0.927	.26-3.46	6
<i>Antocha</i>	1.04	0.924	.49-2.2	5
<i>Baetis tricaudatus</i>	0.57	0.483	.12-2.74	3
<i>Calineuria californica</i>			.-.	2
<i>Camelobaetidius</i>	5.66	0.044	1.05-30.58	1.2
<i>Ceraclea</i>	0.60	0.569	.11-3.43	0.8
<i>Cheumatopsyche</i>	1.38	0.606	.41-4.67	0.5
<i>Chimarra</i>	0.25	0.295	.02-3.33	0.1
Chironomidae	1.19	0.601	.62-2.3	
<i>Epeorus</i>	0.29	0.306	.03-3.13	
<i>Glossosoma</i>	1.46	0.437	.56-3.77	
<i>Hemerodromia</i>	0.48	0.617	.03-8.77	
<i>Homoleptohyphes</i>	4.09	0.046	1.03-16.27	
<i>Hydropsyche</i>	1.50	0.348	.64-3.49	
<i>Hydroptila</i>	3.48	0.138	.67-18.1	
<i>Isoperla</i>	1.89	0.342	.51-7.07	
<i>Leucotrichia pictipes</i>	0.93	0.902	.3-2.85	
<i>Ochrotrichia</i>	0.11	0.015	.02-.65	
<i>Optioservus</i>	1.64	0.786	.05-58.91	
<i>Petrophila</i>	1.99	0.552	.21-19.28	
<i>Protophila</i>	1.73	0.126	.86-3.51	
<i>Psychomyia</i>	0.19	0.143	.02-1.75	
<i>Rhyacophila Coloradensis</i> Group	0.25	0.094	.05-1.27	
<i>Rhyacophila Hyalinta</i> Group	1.19	0.754	.4-3.53	
<i>Rhyacophila malkini</i>	0.85	0.61	.47-1.57	
<i>Serratella micheneri</i>	1.86	0.521	.28-12.36	
<i>Simulium</i>	1.09	0.743	.65-1.85	
<i>Zaitzevia</i>	1.38	0.734	.21-8.93	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-211. Ratio of After/Before for Larger-Sized Macroinvertebrate Densities for All Reaches with Overall Test of Difference in these Ratios – 2007.

Species	Rock Creek (After/Before)	p-value	Cresta (After/Before)	p-value	UNF (After/Before)	p-value	Overall p- value	Legend
<i>Acentrella</i>	5.686	0.105	0.956	0.95	2.735	0.264	0.182	10
<i>Antocha</i>	0.619	0.538	2.066	0.242	1.948	0.567	0.403	5
<i>Baetis tricaudatus</i>	1.478	0.547	0.9	0.853	1.417	0.734	0.688	3
<i>Calineuria californica</i>	1.026	0.329	1.067	0.513	1	1	0.364	2
<i>Camelobaetidium</i>	1.273	0.741	1.431	0.644	1.443	0.815	0.99	1.2
<i>Ceraclea</i>	1.612	0.319	0.94	0.347	1	1	0.62	0.8
<i>Cheumatopsyche</i>	3.08	0.161	2.17	0.18	0.767	0.856	0.687	0.5
<i>Chimarra</i>	1.028	0.956	1.871	0.313	1	1	0.562	0.1
Chironomidae	2.847	0.051	5.907	0.001	1.621	0.153	0.012	
<i>Epeorus</i>	1.536	0.427	1.766	0.265	4.325	0.122	0.643	
<i>Glossosoma</i>	1.069	0.892	1.233	0.766	0.609	0.688	0.884	
<i>Hemerodromia</i>	0.914	0.347	0.763	0.321	1		0.62	
<i>Homoleptohyphes</i>	0.465	0.132	0.692	0.097	0.369	0.274	0.391	
<i>Hydropsyche</i>	0.765	0.761	0.363	0.03	0.718	0.854	0.595	
<i>Hydroptila</i>	0.827	0.798	1.096	0.864	1		0.95	
<i>Leucotrichia pictipes</i>	0.395	0.374	0.858	0.831	3.901	0.028	0.21	
<i>Ochrotrichia</i>	2.12	0.343	1.005	0.989	5.863	0.029	0.174	
<i>Optioservus</i>	1.651	0.166	1.914	0.251	1.004	0.274	0.27	
<i>Petrophila</i>	0.535	0.17	1.126	0.776	0.369	0.274	0.137	
<i>Psychomyia</i>	0.621	0.243	0.695	0.174	1		0.4	
<i>Rhyacophila</i>								
<i>Coloradensis Group</i>	1.207	0.347	1.759	0.321	1	1	0.62	
<i>Rhyacophila malkini</i>	0.671	0.262	1.08	0.793	1.985	0.076	0.118	
<i>Serratella micheneri</i>	0.334	0.171	1.586	0.436	11.772	0.002	0.027	
<i>Simulium</i>	1.267	0.493	2.096	0.285	0.406	0.274	0.317	
<i>Zaitzevia</i>	1.344	0.795	0.302	0.113	9.879	0.038	0.029	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-212. Ratios of Ratios (After/Before) of Rock Creek vs. Reference Streams for Larger-Sized Macroinvertebrate Densities– 2007.

Species	Ratio of Rock Creek After/Before / Cresta After/Before	p-value	95% Confidence Interval of Ratio	Ratio of Rock Creek After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
<i>Acentrella</i>	5.95	0.063	.91-38.89	2.08	0.601	.13-32.33	5
<i>Antocha</i>	0.30	0.171	.05-1.68	0.32	0.413	.02-4.95	4
<i>Baetis tricaudatus</i>	1.64	0.397	.52-5.19	1.04	0.972	.1-11.25	3
<i>Calineuria californica</i>	0.96	0.725	.77-1.2	1.03	0.329	.97-1.08	2
<i>Camelobaetidium</i>	0.89	0.891	.17-4.78	0.88	0.942	.03-26.21	1.2
<i>Ceraclea</i>	1.72	0.318	.59-4.95	1.61	0.319	.63-4.12	0.8
<i>Cheumatopsyche</i>	1.42	0.584	.41-4.96	4.02	0.405	.15-106.37	0.5
<i>Chimarra</i>	0.55	0.515	.09-3.34	1.03	0.956	.39-2.71	0.1
Chironomidae	0.48	0.03	.25-.93	1.76	0.374	.51-6.08	
<i>Epeorus</i>	0.87	0.839	.23-3.33	0.36	0.342	.04-3.01	
<i>Glossosoma</i>	0.87	0.827	.24-3.12	1.76	0.672	.13-23.66	
<i>Hemerodromia</i>	1.20	0.318	.84-1.7	0.91	0.347	.76-1.1	
<i>Homoleptohyphes</i>	0.67	0.249	.34-1.32	1.26	0.824	.16-9.76	
<i>Hydropsyche</i>	2.11	0.328	.47-9.37	1.07	0.975	.02-53.46	
<i>Hydroptila</i>	0.76	0.748	.14-4.21	0.83	0.798	.19-3.53	
<i>Leucotrichia pictipes</i>	0.46	0.258	.12-1.77	0.10	0.059	.01-1.09	
<i>Ochrotrichia</i>	2.11	0.461	.29-15.38	0.36	0.37	.04-3.34	
<i>Optioservus</i>	0.86	0.818	.24-3.04	1.64	0.169	.81-3.34	
<i>Petrophila</i>	0.48	0.046	.23-.99	1.45	0.716	.2-10.7	
<i>Psychomyia</i>	0.89	0.715	.49-1.64	0.62	0.243	.28-1.38	
<i>Rhyacophila</i>							
<i>Coloradensis Group</i>	0.69	0.318	.33-1.44	1.21	0.347	.82-1.79	
<i>Rhyacophila malkini</i>	0.62	0.091	.36-1.08	0.34	0.039	.12-.95	
<i>Serratella micheneri</i>	0.21	0.124	.03-1.54	0.03	0.002	0-.26	
<i>Simulium</i>	0.60	0.575	.1-3.51	3.12	0.203	.54-17.96	
<i>Zaitzevia</i>	4.44	0.084	.82-24.17	0.14	0.209	.01-3.05	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$

Table 5.1-213. Ratios of Ratios (After/Before) of Cresta vs. UNF for Larger-Sized Macroinvertebrate Densities – 2007.

Species	Ratio of Cresta After/Before / UNF After/Before	p-value	95% Confidence Interval of Ratio	Legend
<i>Acentrella</i>	0.4	0.359	.04-3.3	5
<i>Antocha</i>	1.1	0.964	.08-14.06	4
<i>Baetis tricaudatus</i>	0.6	0.699	.06-6.33	3
<i>Calineuria californica</i>	1.1	0.513	.88-1.29	2
<i>Camelobaetidius</i>	1.0	0.996	.03-30.61	1.2
<i>Ceraclea</i>	0.9	0.347	.83-1.07	0.8
<i>Cheumatopsyche</i>	2.8	0.509	.13-62.14	0.5
<i>Chimarra</i>	1.9	0.313	.55-6.33	0.1
Chironomidae	3.6	0.009	1.38-9.62	
<i>Epeorus</i>	0.4	0.405	.05-3.36	
<i>Glossosoma</i>	2.0	0.619	.13-32.59	
<i>Hemerodromia</i>	0.8	0.321	.45-1.3	
<i>Homoleptohyphes</i>	1.9	0.502	.3-11.81	
<i>Hydropsyche</i>	0.5	0.713	.01-19.1	
<i>Hydroptila</i>	1.1	0.864	.38-3.13	
<i>Leucotrichia pictipes</i>	0.2	0.11	.03-1.41	
<i>Ochrotrichia</i>	0.2	0.045	.03-.96	
<i>Optioservus</i>	1.9	0.254	.63-5.78	
<i>Petrophila</i>	3.1	0.266	.43-21.76	
<i>Psychomyia</i>	0.7	0.174	.41-1.17	
<i>Rhyacophila Coloradensis</i> Group	1.8	0.321	.58-5.37	
<i>Rhyacophila malkini</i>	0.5	0.21	.21-1.41	
<i>Serratella micheneri</i>	0.1	0.045	.02-.96	
<i>Simulium</i>	5.2	0.127	.63-42.5	
<i>Zaitzevia</i>	0.0	0.009	0-.42	

Note: Numbers in **Bold** indicate statistically significant probabilities at $p \leq 0.05$