

Table L 1. Slate, Johnson and Sherman Creeks sediment toxicity survival.

Collection Date	Sample ID	<i>Chironomus dilutus</i>	<i>Hyaella azteca</i>
		Survival (%)	Survival (%)
10/3/2011	Lower Slate	60	95
9/26/2011	East Fork Slate	78.3	93.8
10/6/2011	Upper Slate	61.2	96.2
10/3/2011	Lower Johnson Creek	58.8	96.2
10/4/2011	Lower Sherman	75	96.2
10/4/2011	Middle Sherman	55 ^a	98.8
	Sand control	75	98.8

^a Significantly lower survival than the lab control.

Table L 2. Slate, Johnson and Sherman Creeks sediment toxicity growth.

Sample ID	<i>Chironomus dilutus</i>		<i>Hyaella azteca</i>	
	Ash Free Dry Weight (mg)		Dry Weight (mg)	
	per original organism	per surviving organism	per original organism	per surviving organism
Lower Slate	0.749	1.256	0.072	0.076
Middle Slate	0.718	0.926 ^a	0.058 ^a	0.062 ^a
Upper Slate	0.644 ^a	1.054	0.070	0.073
Lower Johnson Creek	0.836 ^a	1.170	0.074 ^a	0.077
Lower Sherman	0.631	1.120	0.071	0.074
Middle Sherman	0.649 ^a	1.167	0.068 ^a	0.069 ^a
Sand control	0.874	1.186	0.081	0.082

^a Significantly lower growth than the lab control.

Table L 3. Slate Creek drainage Shannon Diversity and Evenness indices.

Slate Creek	Shannon Diversity (H)	Evenness (E)
Lower Slate	0.51	0.46
East Fork	0.64	0.52
West Fork	0.63	0.74
Upper Slate	0.97	0.74

Table L 4. Slate Creek drainage taxa proportions.

Taxon	Lower Slate	East Fork	West Fork	Upper Slate
Ephemeroptera	7.4%	14.8%	64.6%	26.1%
Plecoptera	6.1%	2.7%	14.6%	28.5%
Trichoptera	0.2%	1.1%	1.1%	8.2%
Chironomidae	72.0%	16.7%	10.0%	15.1%
Acari	0.6%	1.3%	0.7%	1.1%
Oligochaeta	5.0%	1.4%	4.6%	1.3%
Ostracoda	5.0%	4.4%	1.4%	15.8%
Amphipoda	0.4%	0.2%	0.0%	0.8%
Bivalvia	0.0%	54.6%	0.0%	0.0%

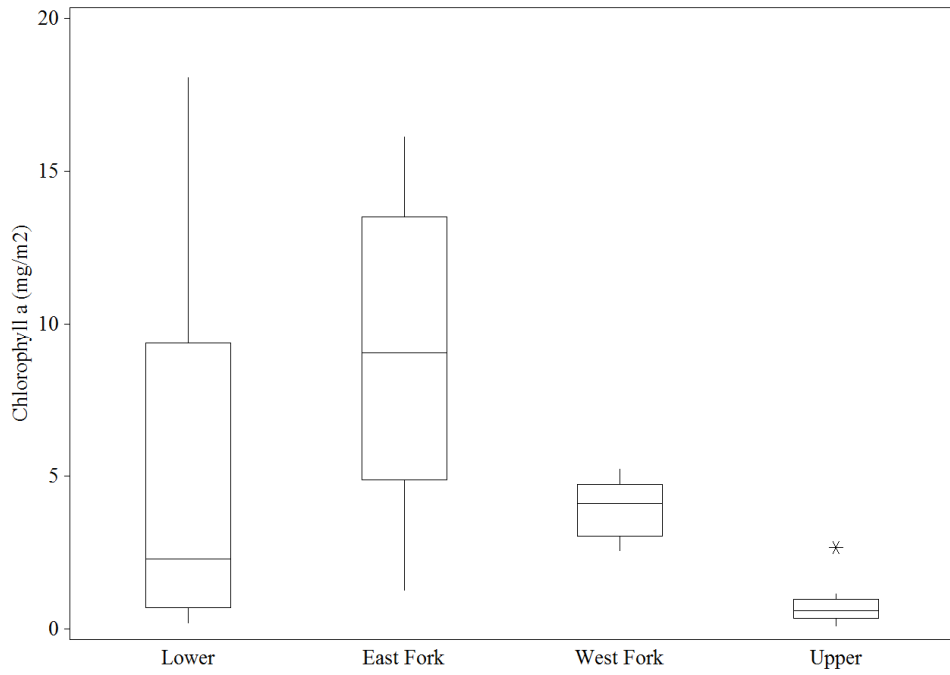


Figure L 1. Slate Creek drainage periphyton biomass.

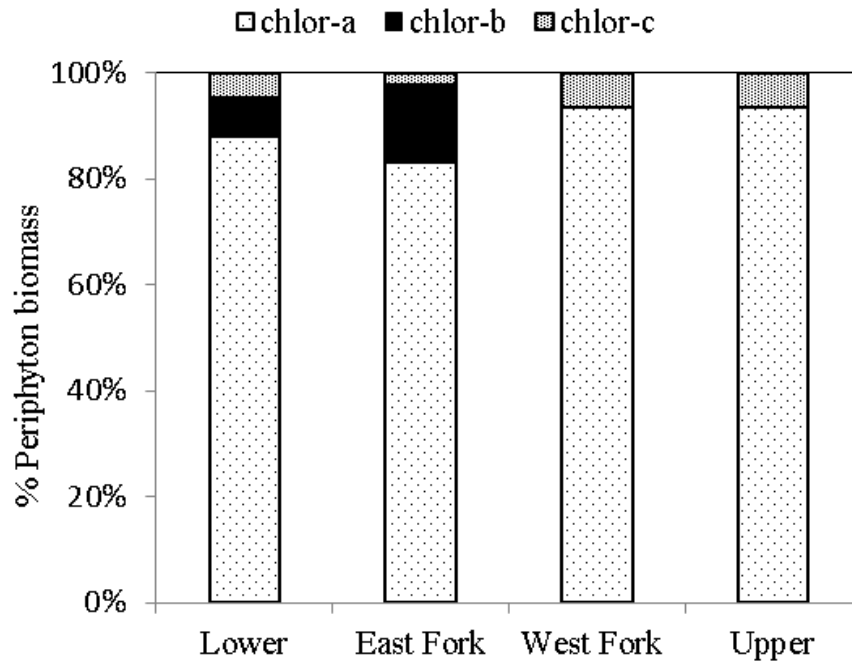


Figure L 2. Slate Creek drainage chlorophyll a, b, and c proportions.

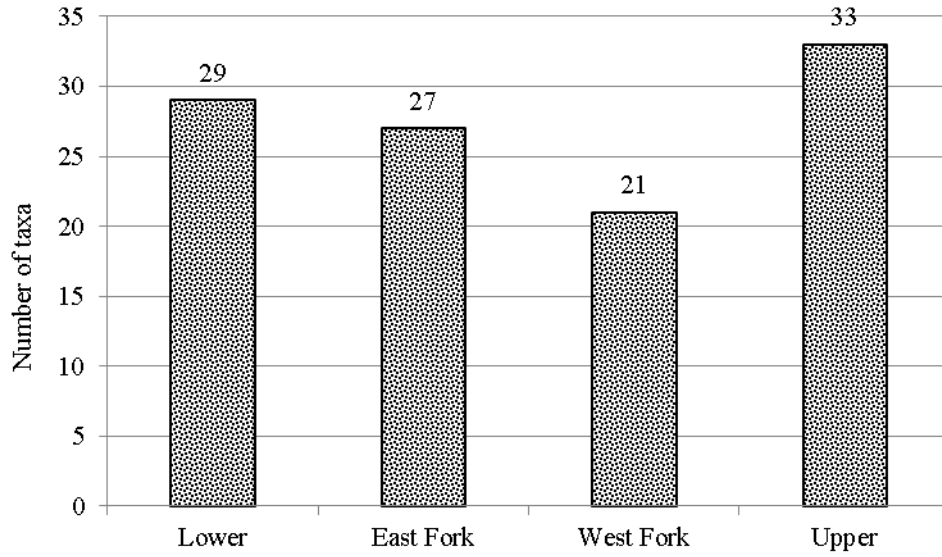


Figure L 3. Slate Creek drainage macroinvertebrate taxa.

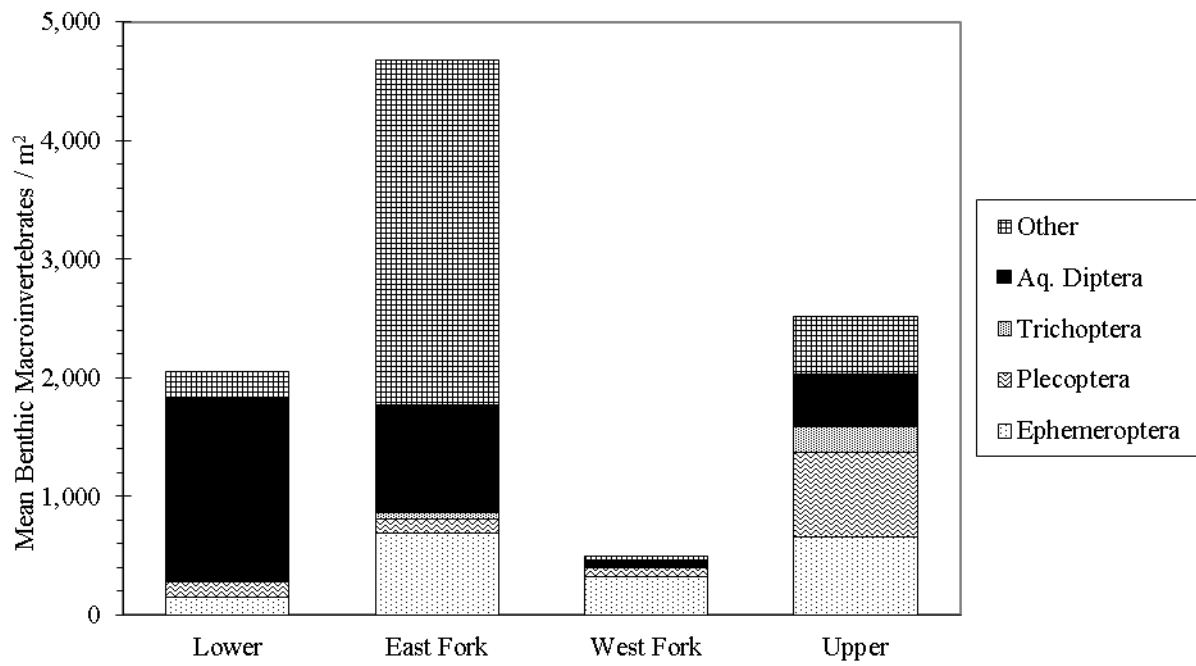


Figure L 4. Slate Creek drainage macroinvertebrate densities.

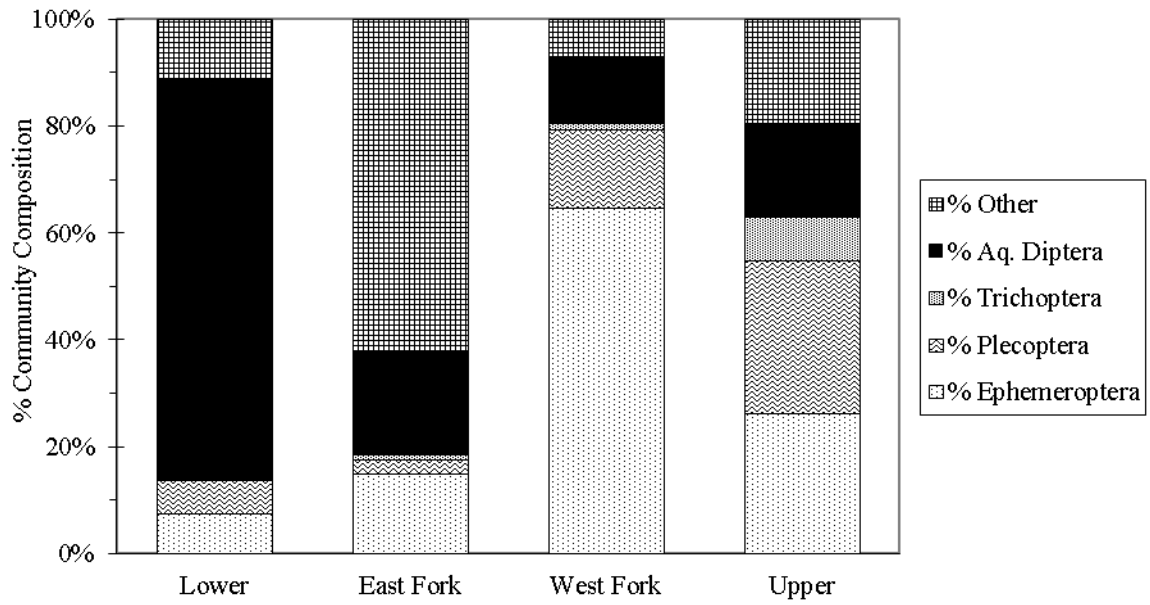


Figure L 5. Slate Creek drainage macroinvertebrate community composition.

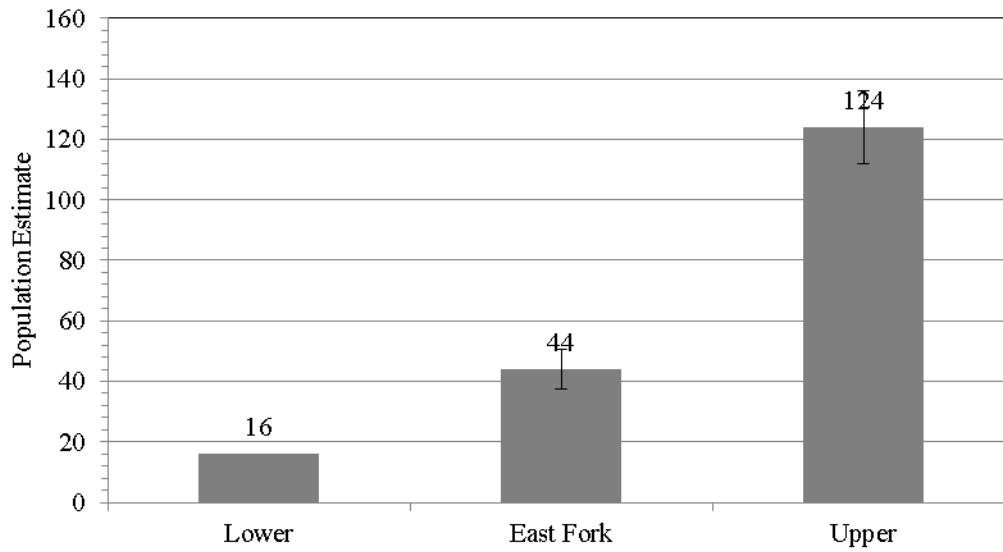


Figure L 6. Slate Creek drainage Dolly Varden char population estimates.

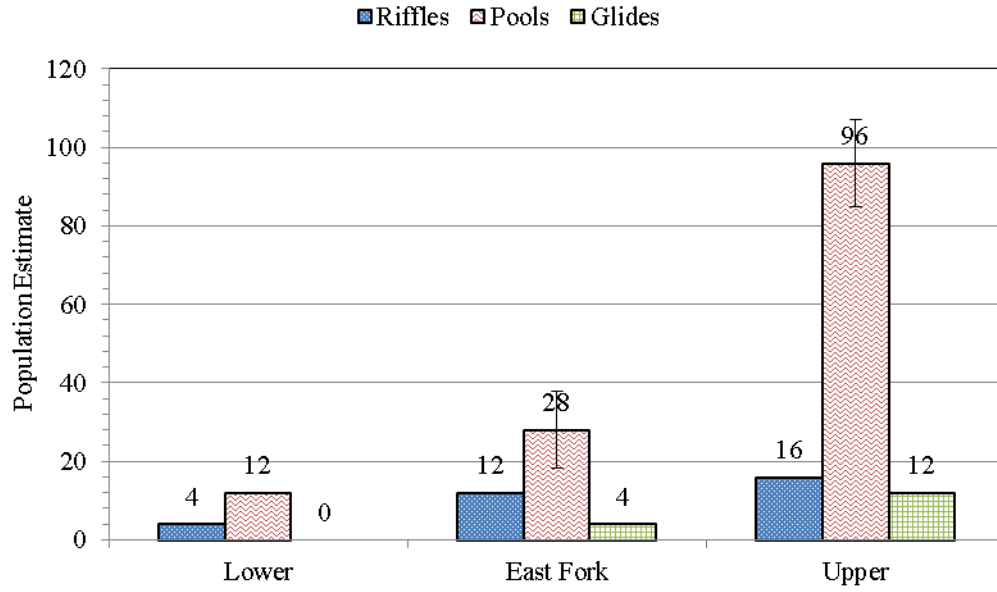


Figure L 7. Slate Creek drainage Dolly Varden char population estimates by habitat type.

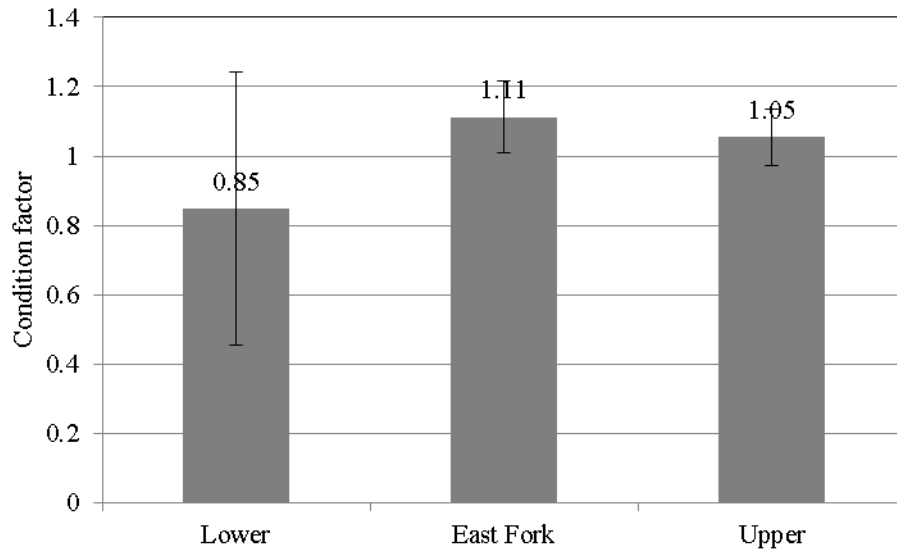


Figure L 8. Slate Creek drainage Dolly Varden char condition.

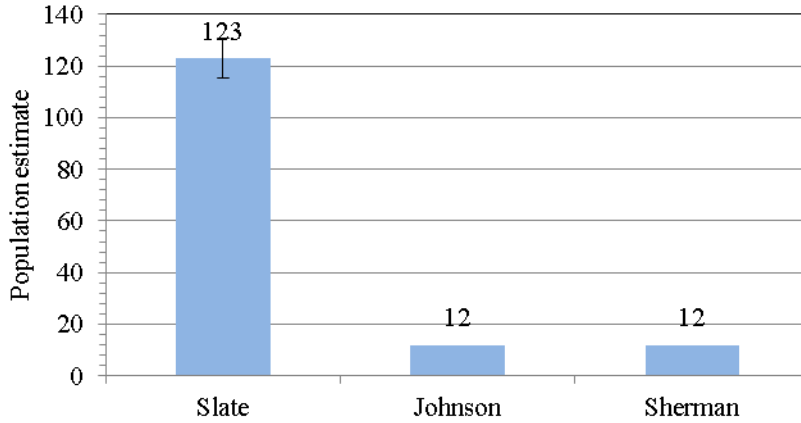


Figure L 9. Slate, Johnson and Sherman Creeks cutthroat trout population estimates.

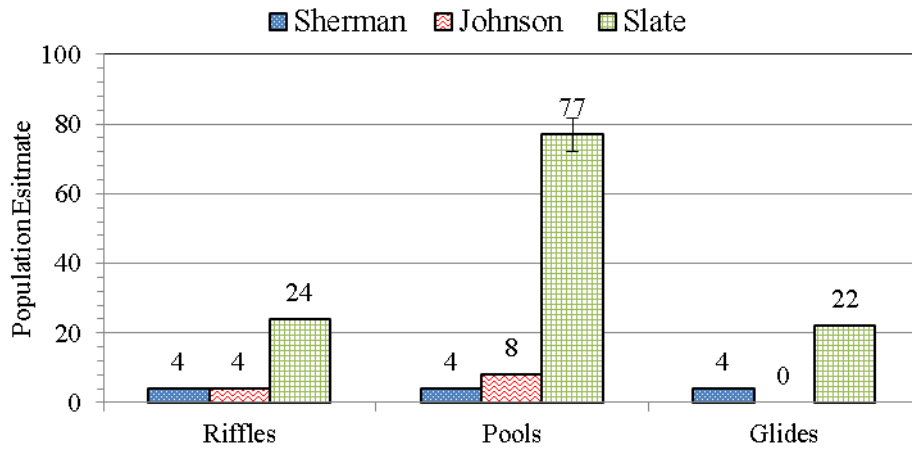


Figure L 10. Slate, Johnson and Sherman Creeks cutthroat trout population estimates by habitat type.

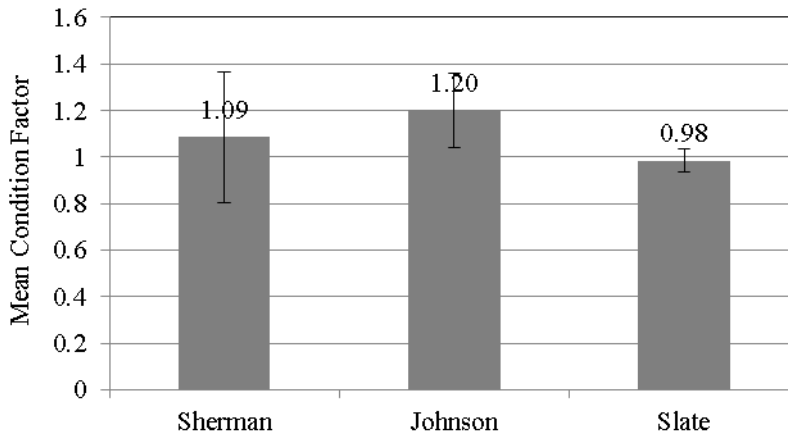


Figure L 11. Slate, Johnson and Sherman Creek cutthroat trout condition.

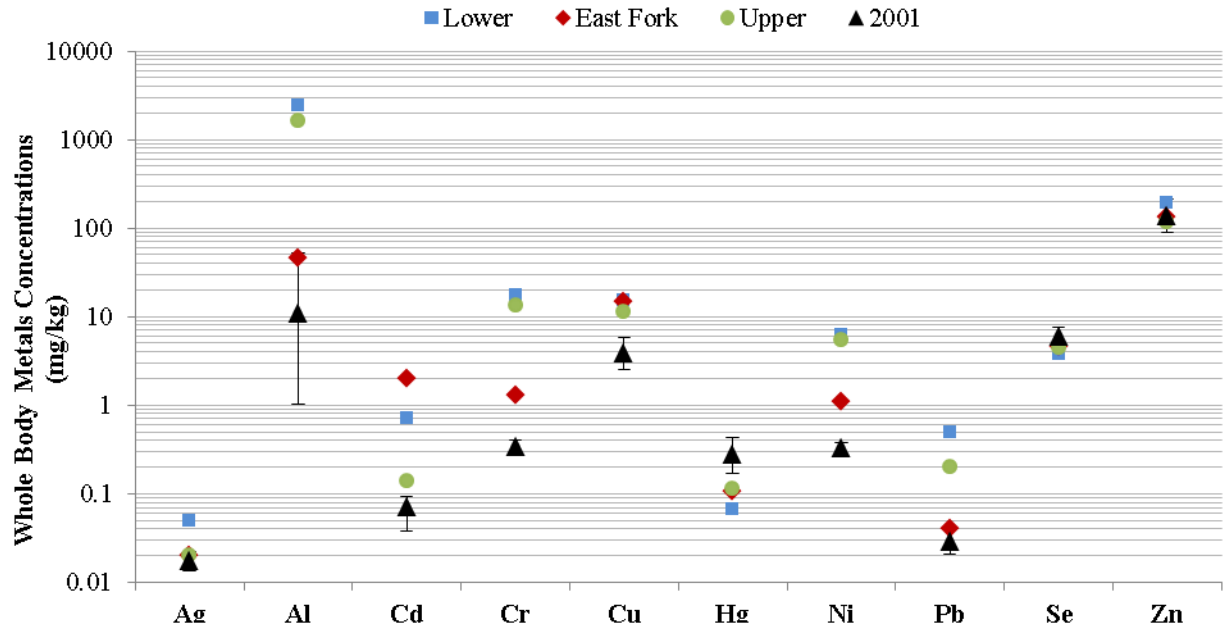


Figure L 12. Slate Creek drainage juvenile Dolly Varden char whole body metals concentrations by analyte, including data from Kline (2001).

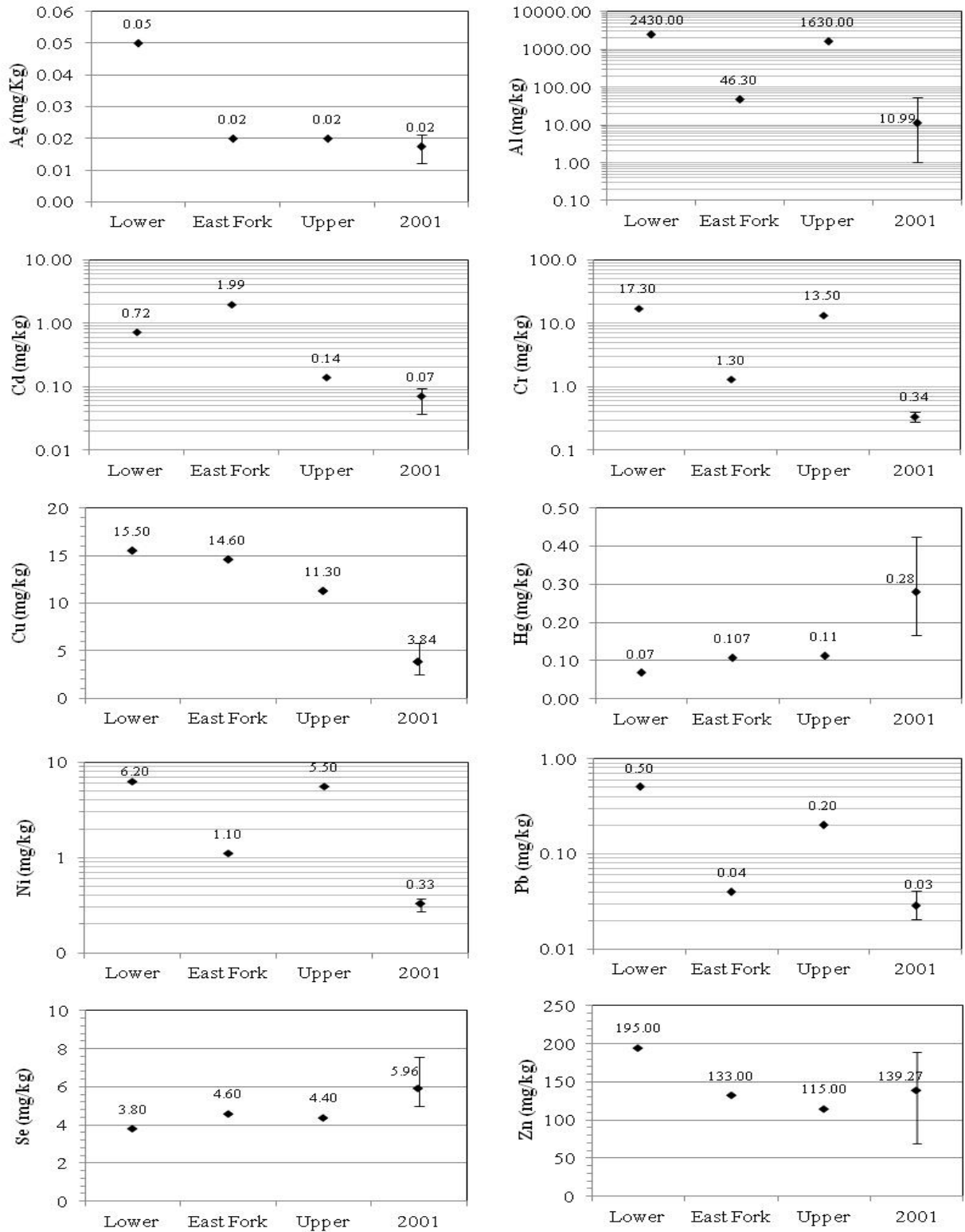


Figure L 13. Slate Creek drainage juvenile Dolly Varden char whole body metals concentrations by analyte, including data from Kline (2001).

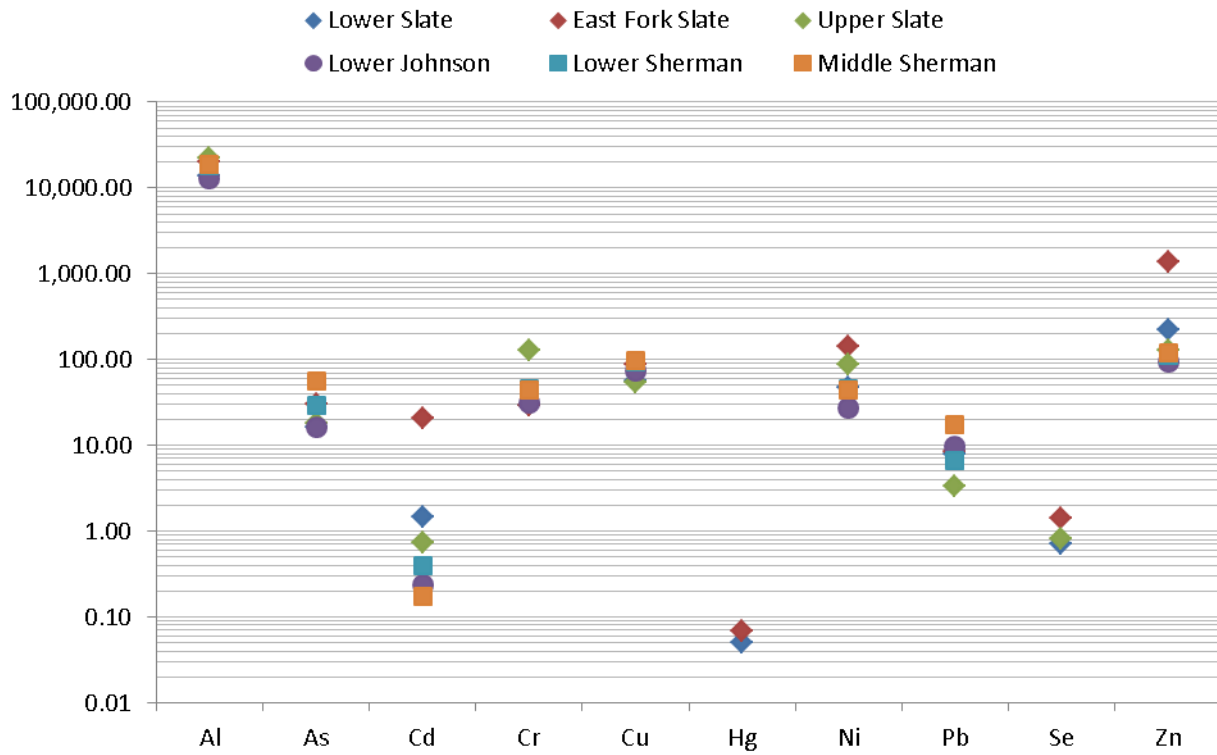


Figure L 14. Slate, Johnson and Sherman Creeks sediment metals concentrations.

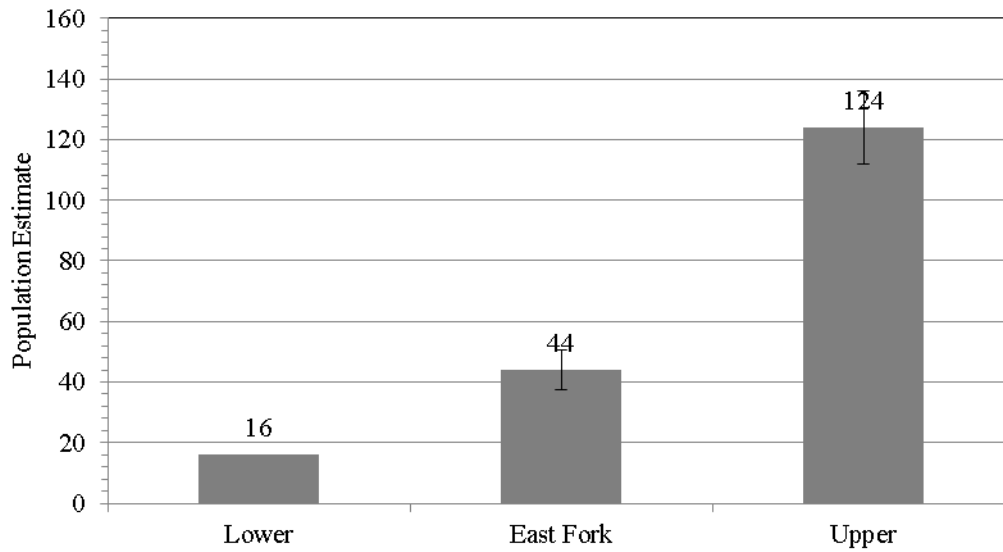


Figure L 15. Slate Creek drainage Dolly Varden char population estimates.

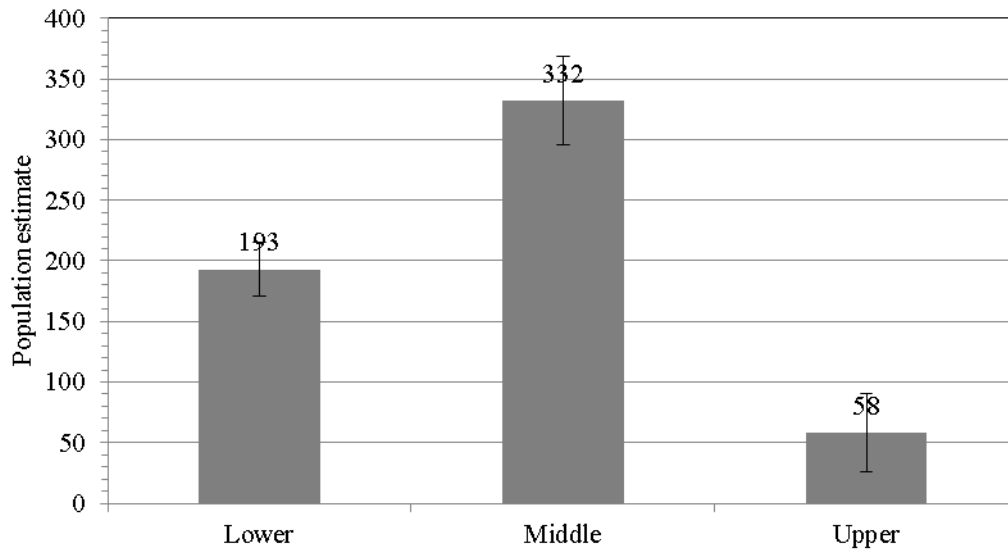


Figure L 16. Johnson Creek drainage Dolly Varden char population estimates.

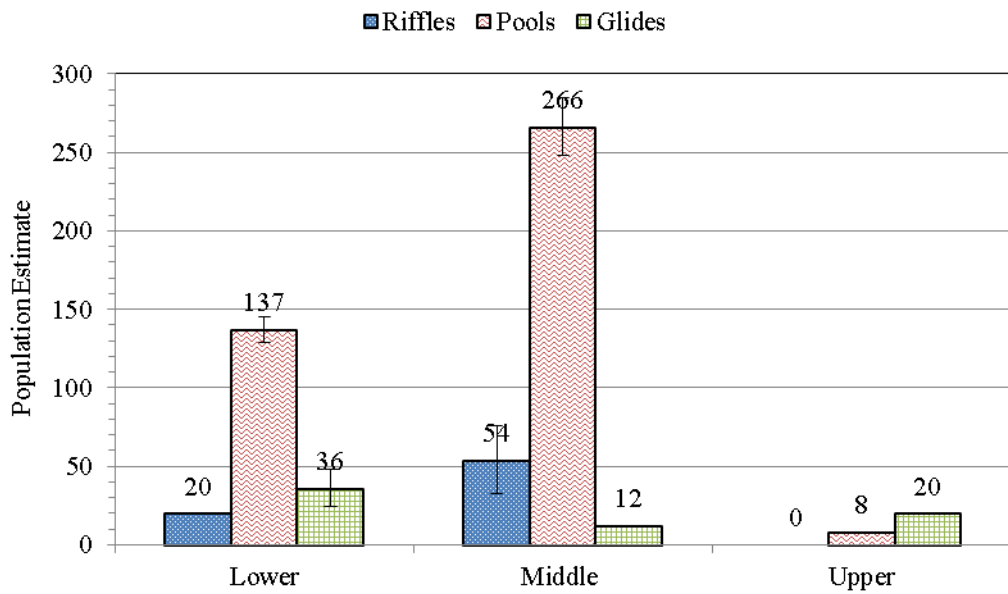


Figure L 17. Johnson Creek drainage Dolly Varden char population estimates by habitat type.

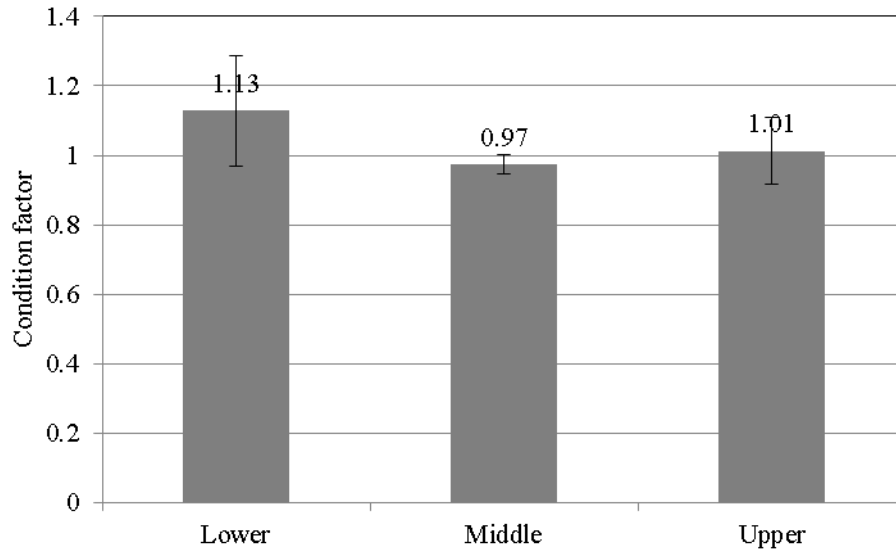


Figure L 18. Johnson Creek drainage Dolly Varden population condition

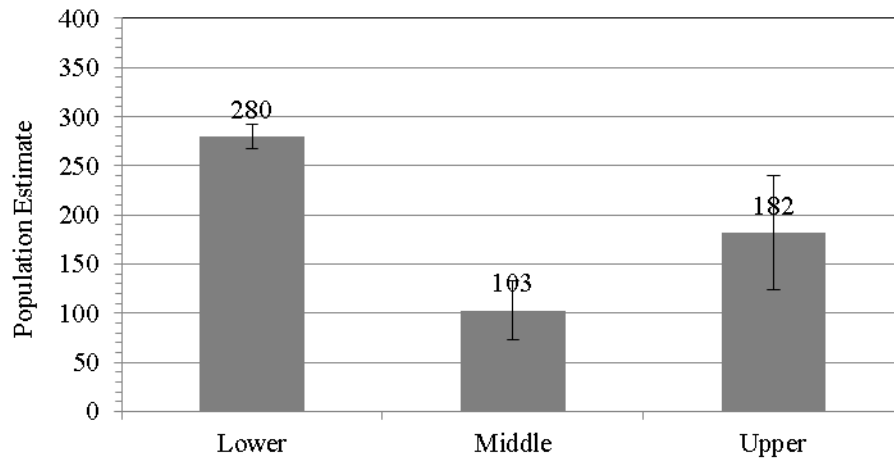


Figure L 19. Sherman Creek drainage Dolly Varden char population estimates.

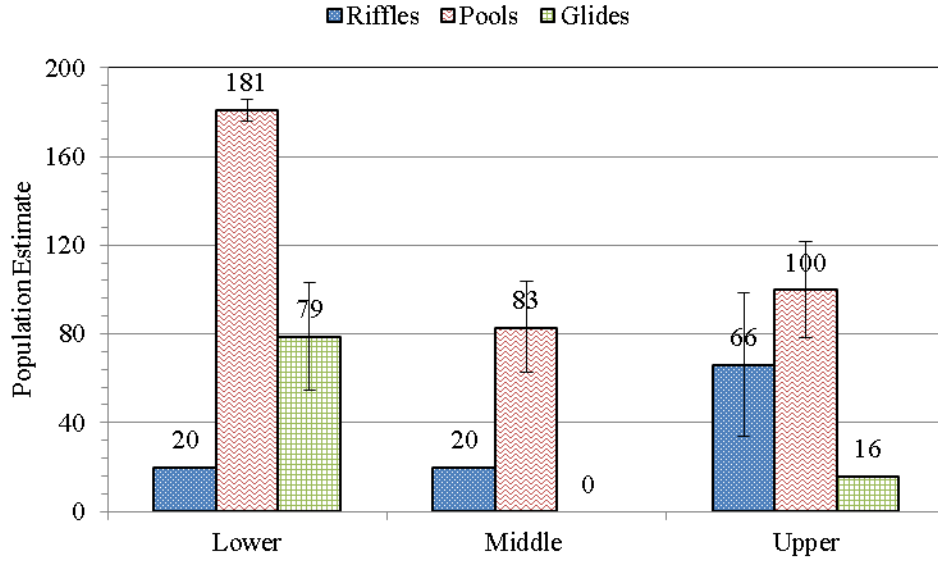


Figure L 20. Sherman Creek drainage Dolly Varden char population estimates by habitat type.

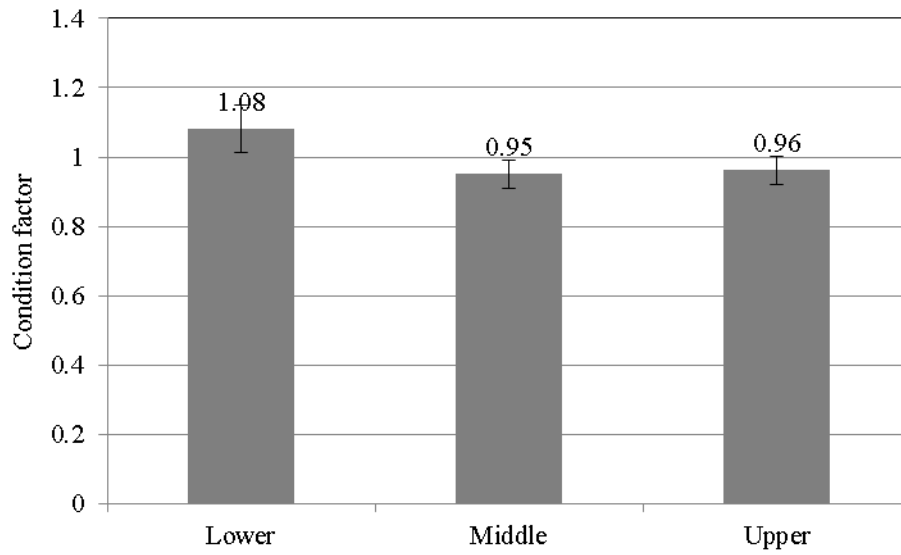


Figure L 21. Sherman Creek drainage Dolly Varden char condition.