

## APPENDIX D

### ADDITIONAL PLOTS

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### STEINHATCHEE RIVER, FLORIDA

SUWANNEE RIVER WATER MANAGEMENT DISTRICT  
9225 CR 49  
LIVE OAK FLORIDA 32060

MAY 2018



APPLIED TECHNOLOGY AND MANAGEMENT, INC.  
2201 NW 40 TERRACE.  
GAINESVILLE, FLORIDA 32605  
386-256-1477



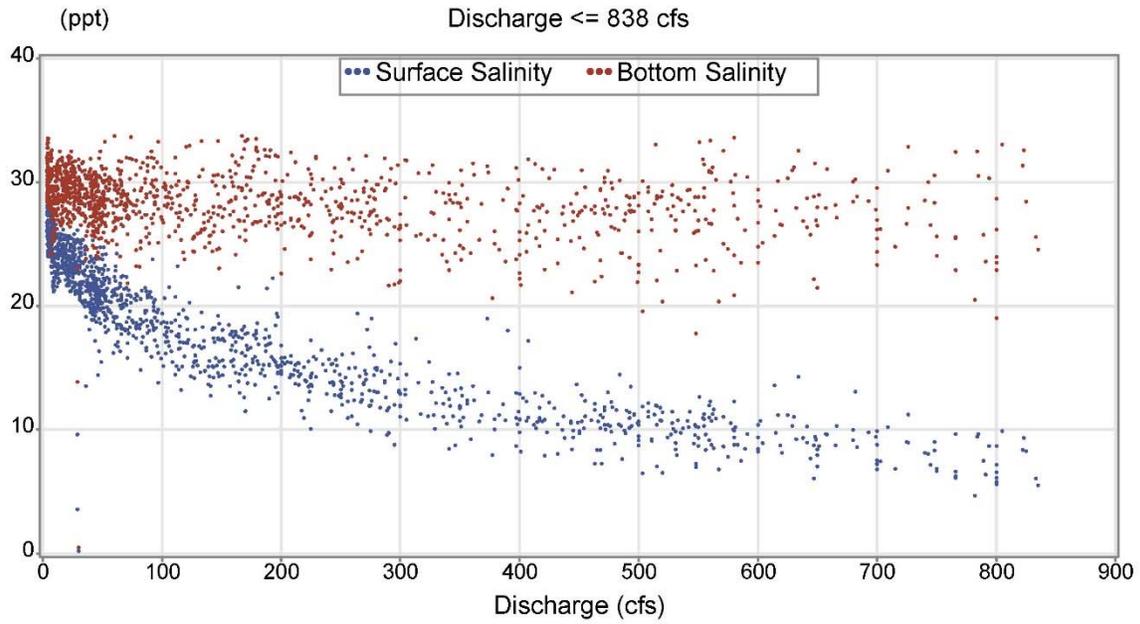
JANICKI ENVIRONMENTAL, INC.  
1155 EDEN ISLE DRIVE NE  
ST. PETERSBURG, FL 33704  
727-895-7722

## Salinity versus Flow Plots

### Steinhatchee River Daily Salinity versus Flow

River Mile 0.5

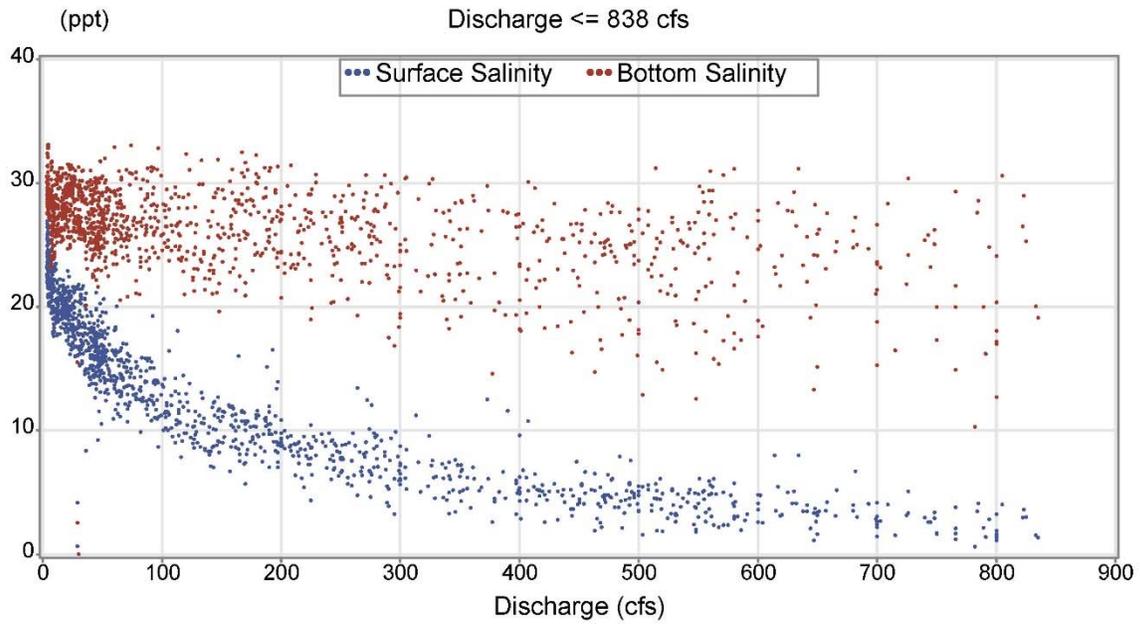
Discharge  $\leq$  838 cfs



### Steinhatchee River Daily Salinity versus Flow

River Mile 1.5

Discharge  $\leq$  838 cfs

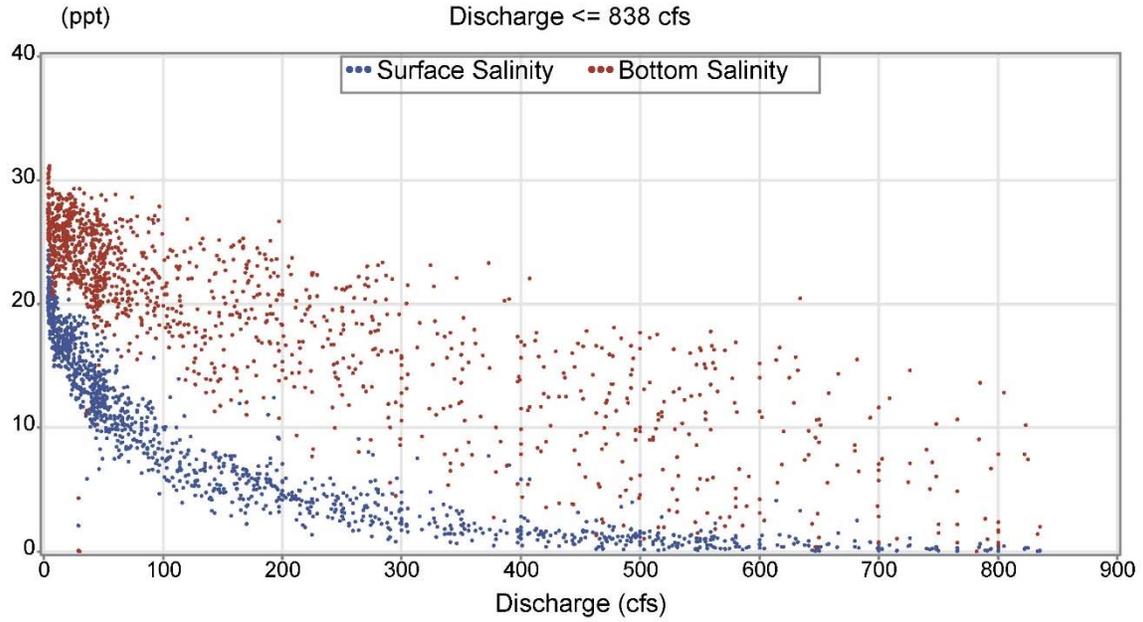


**Daily mean surface and bottom salinities versus flow (<90th percentile flow) for RM 0.5 and RM 1.5.**

### Steinhatchee River Daily Salinity versus Flow

River Mile 2.5

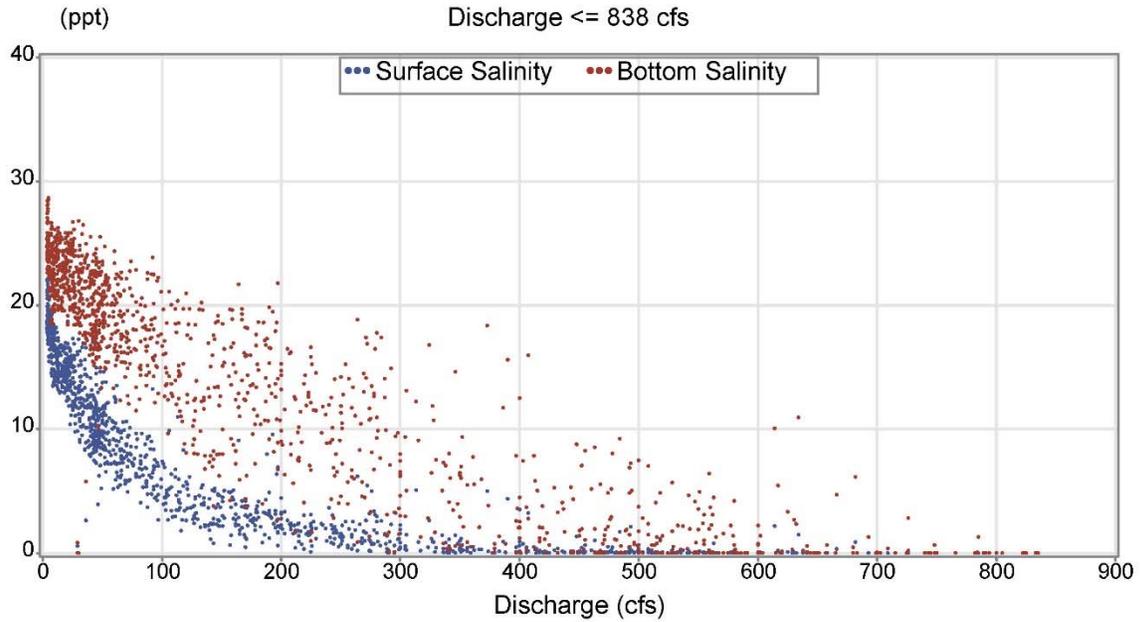
Discharge  $\leq$  838 cfs



### Steinhatchee River Daily Salinity versus Flow

River Mile 3.5

Discharge  $\leq$  838 cfs

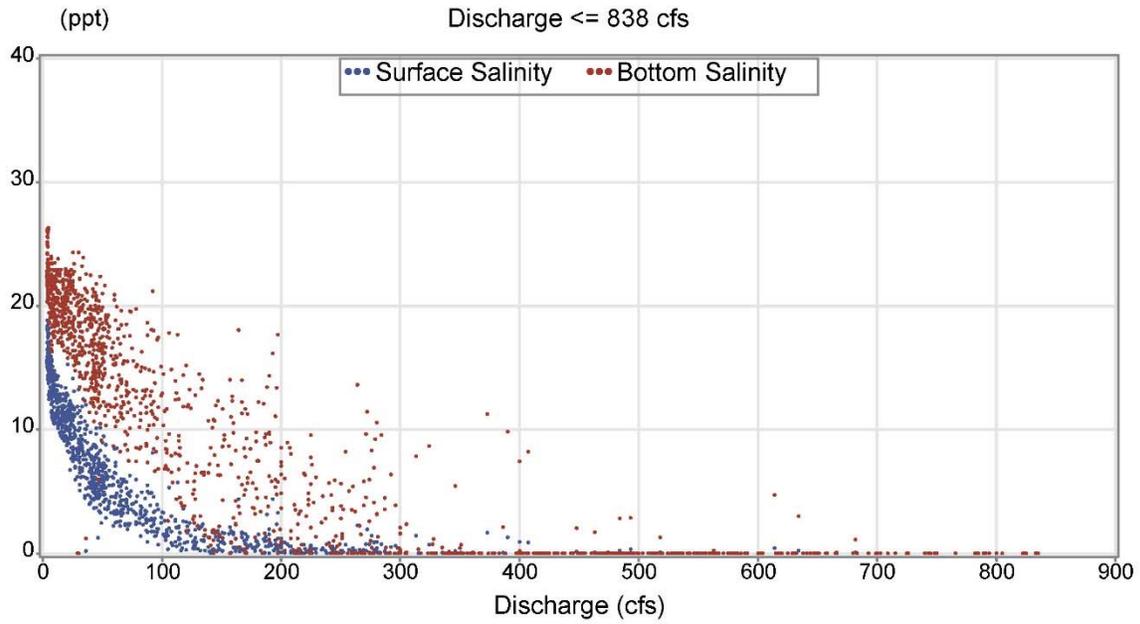


**Daily mean surface and bottom salinities versus flow (<90th percentile flow) for RM 2.5 and RM 3.5.**

### Steinhatchee River Daily Salinity versus Flow

River Mile 4.5

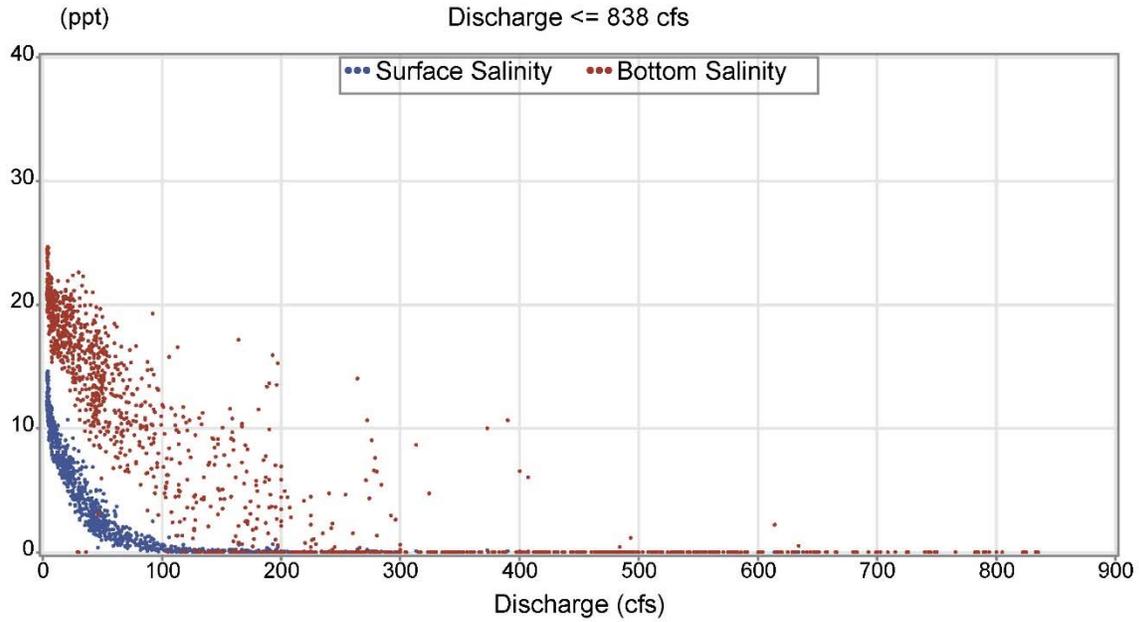
Discharge  $\leq$  838 cfs



### Steinhatchee River Daily Salinity versus Flow

River Mile 5.5

Discharge  $\leq$  838 cfs

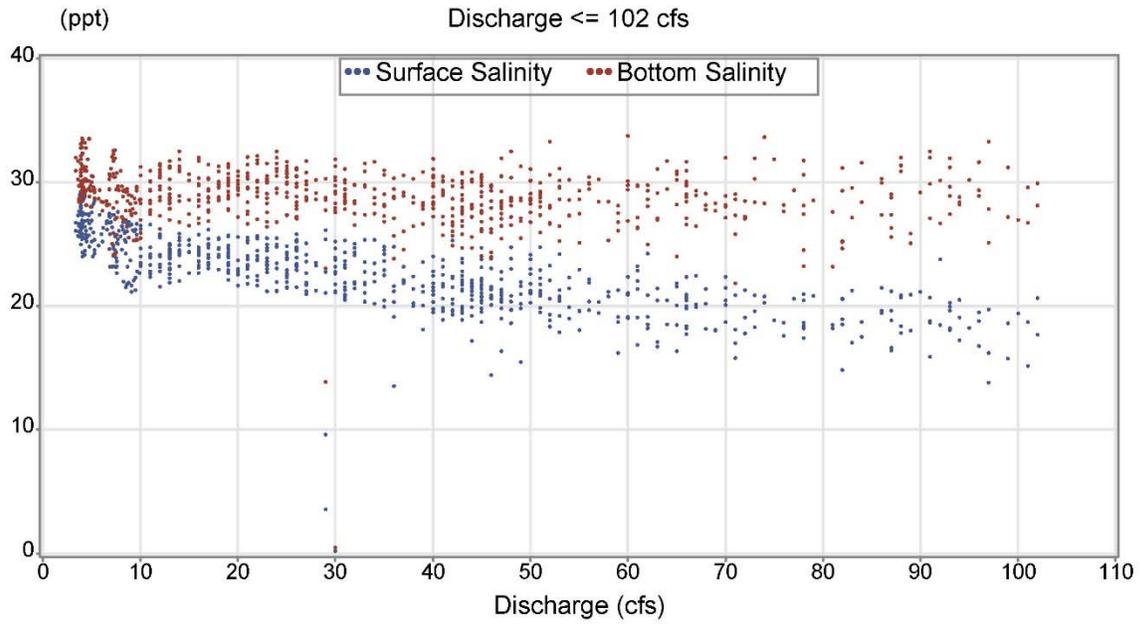


**Daily mean surface and bottom salinities versus flow (<90th percentile flow) for RM 4.5 and RM 5.5.**

### Steinhatchee River Daily Salinity versus Flow

River Mile 0.5

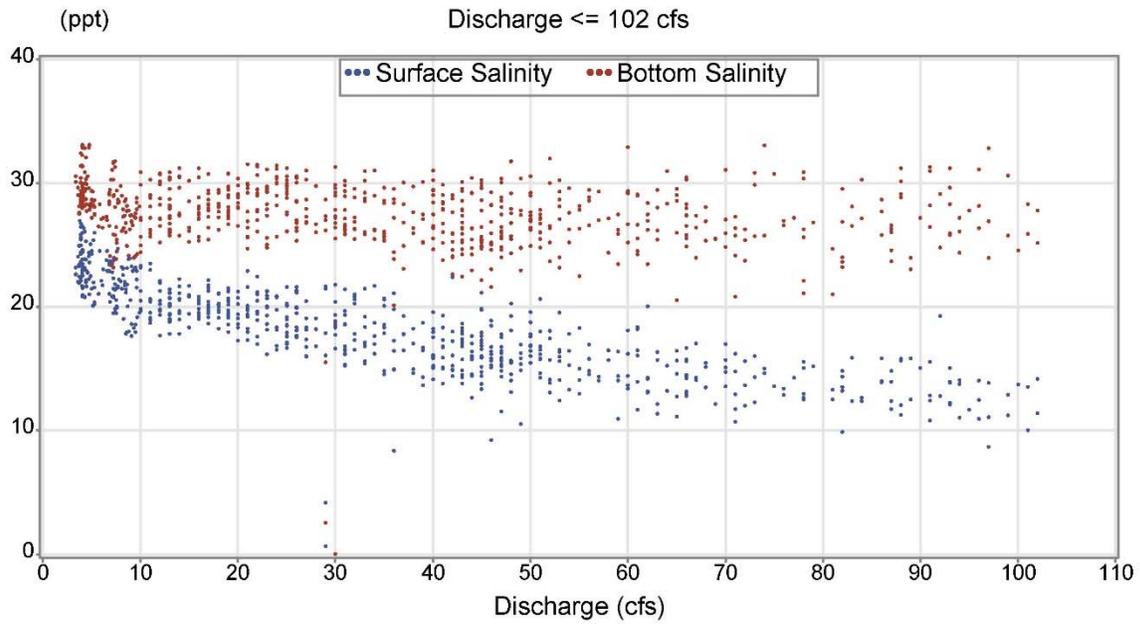
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### Steinhatchee River Daily Salinity versus Flow

River Mile 1.5

Discharge  $\leq$  102 cfs

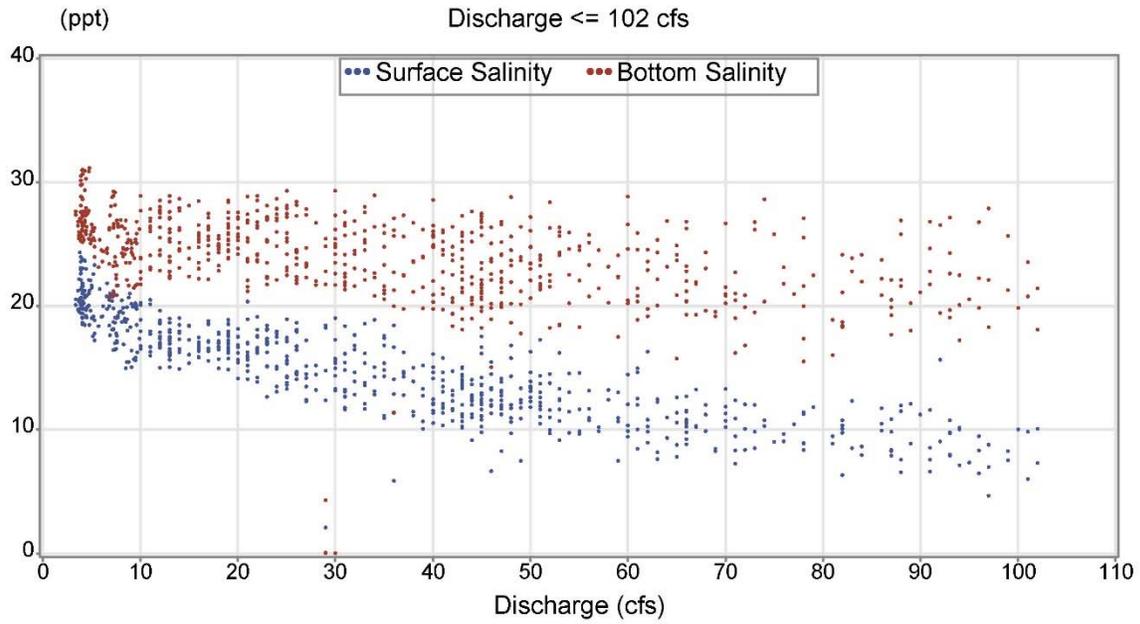


**Daily mean surface and bottom salinities versus flow (<median flow) for RM 0.5 and RM 1.5.**

### Steinhatchee River Daily Salinity versus Flow

River Mile 2.5

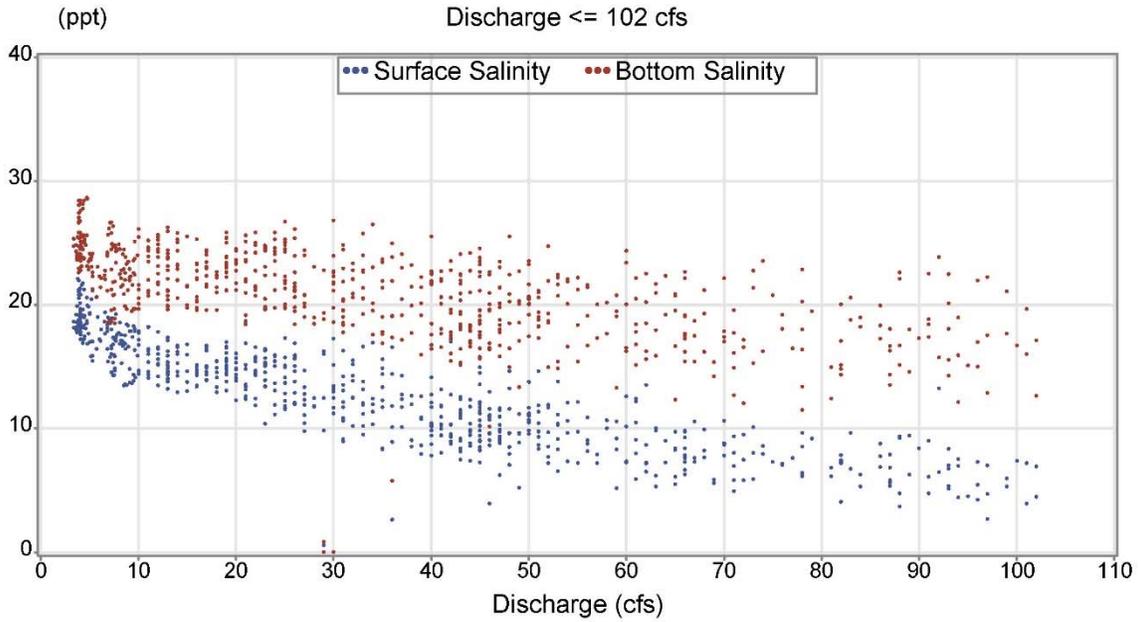
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### Steinhatchee River Daily Salinity versus Flow

River Mile 3.5

Discharge  $\leq$  102 cfs

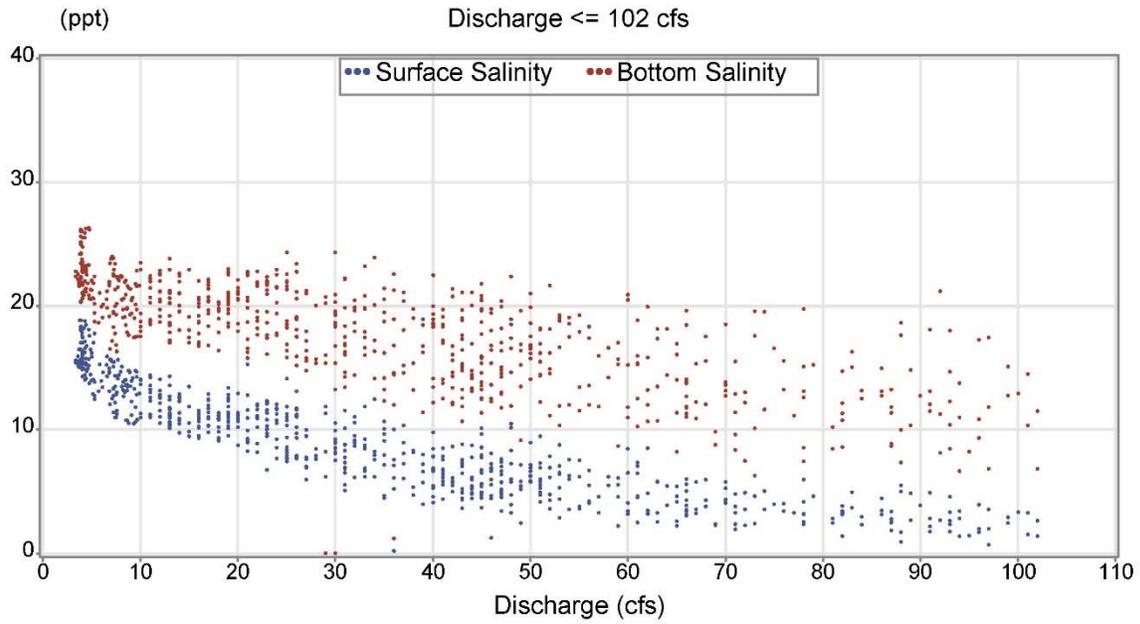


**Daily mean surface and bottom salinities versus flow for (<median flow) for RM 2.5 and RM 3.5**

### Steinhatchee River Daily Salinity versus Flow

River Mile 4.5

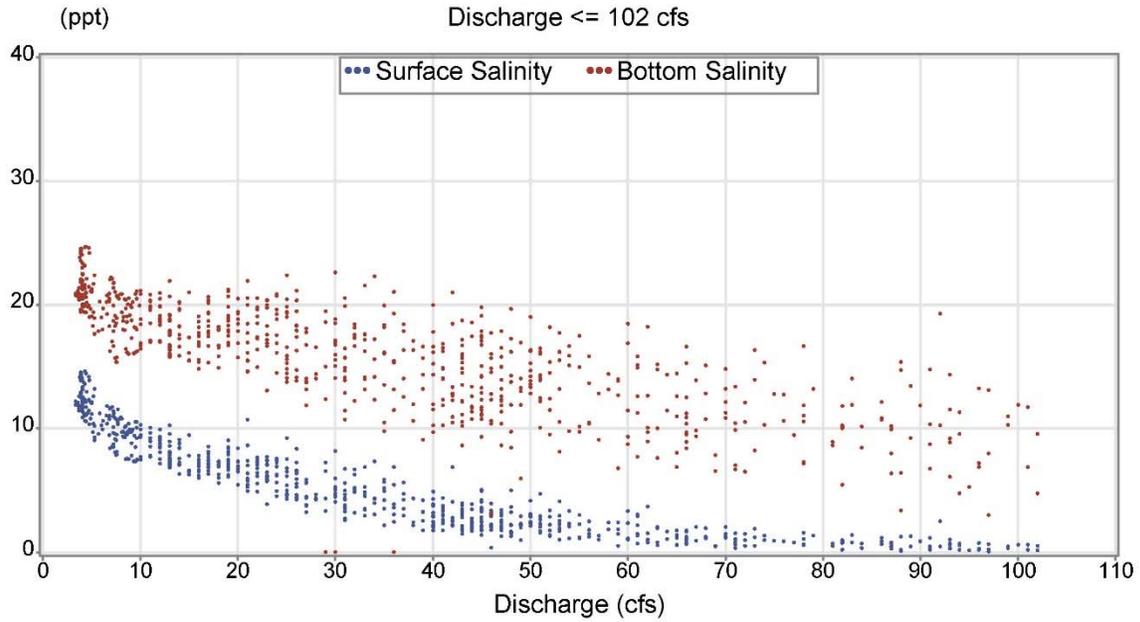
Discharge  $\leq$  102 cfs



### Steinhatchee River Daily Salinity versus Flow

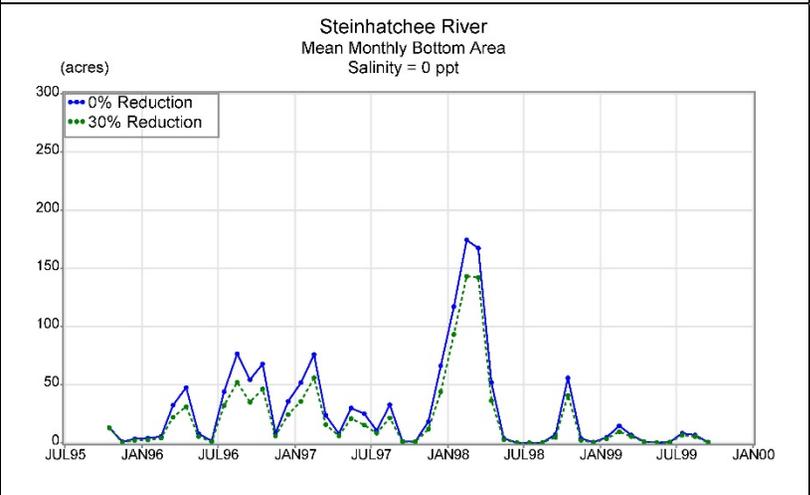
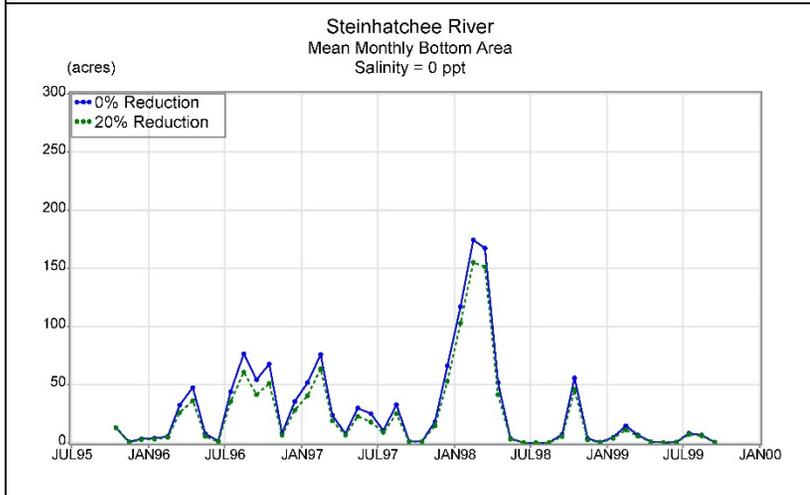
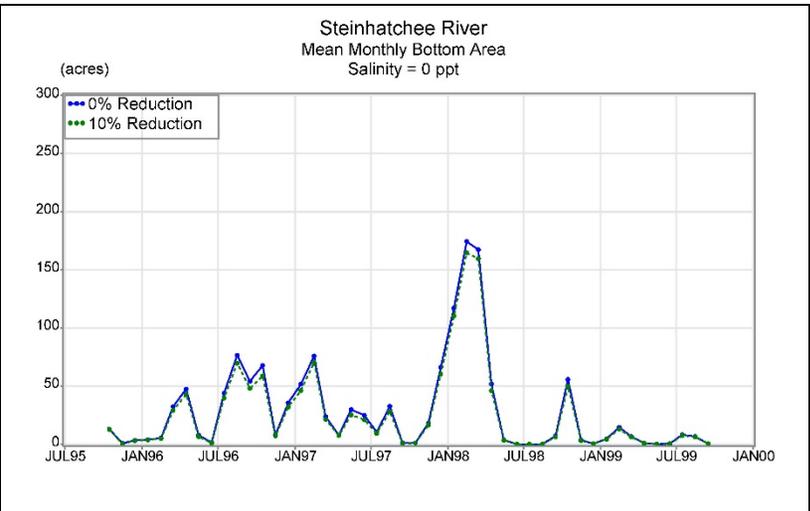
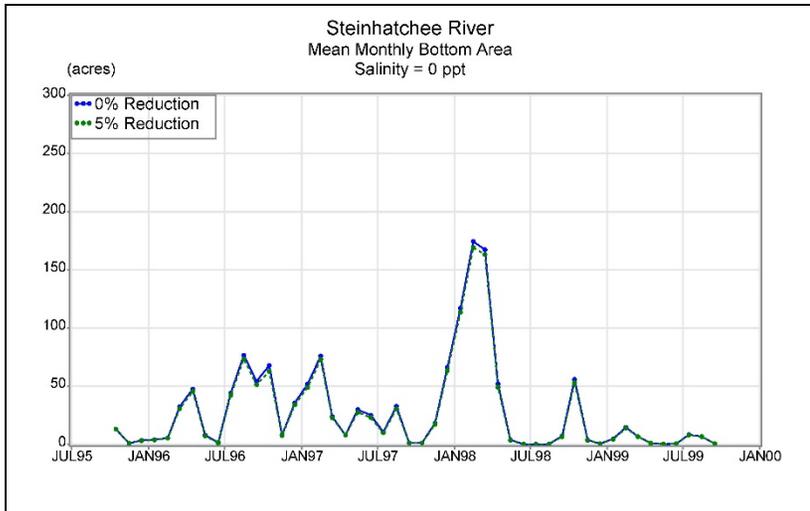
River Mile 5.5

Discharge  $\leq$  102 cfs

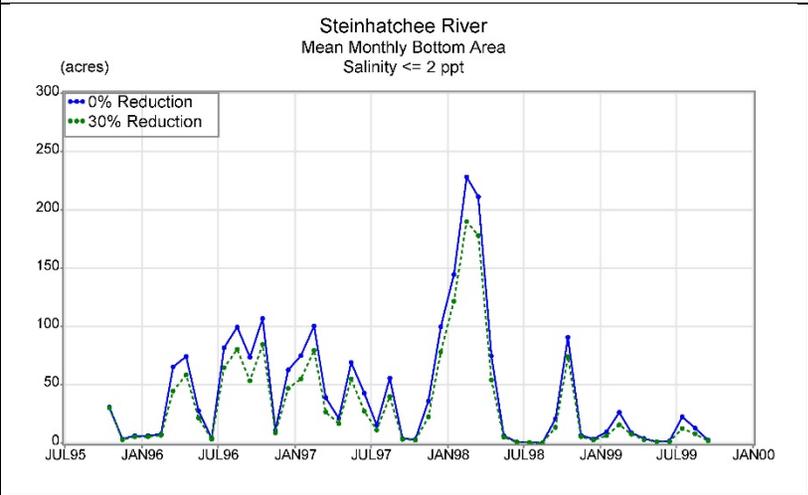
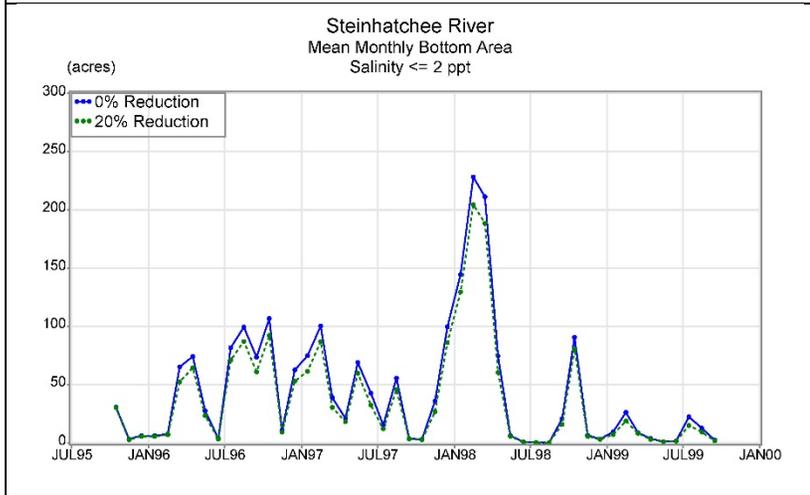
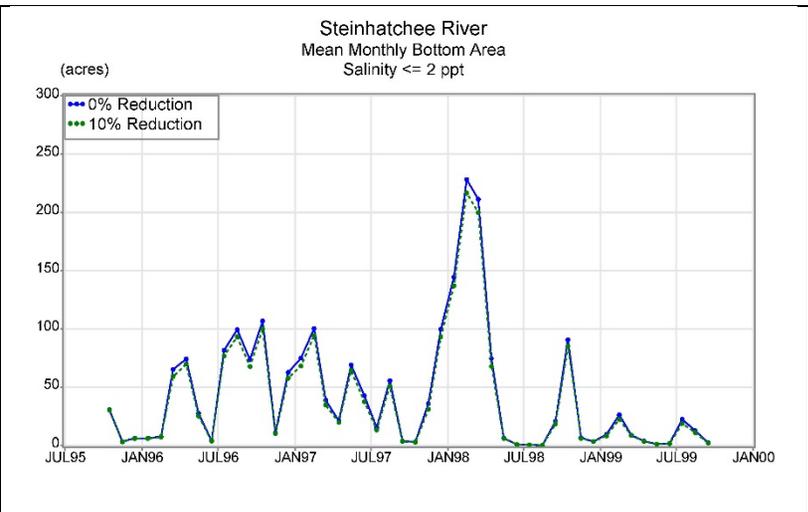
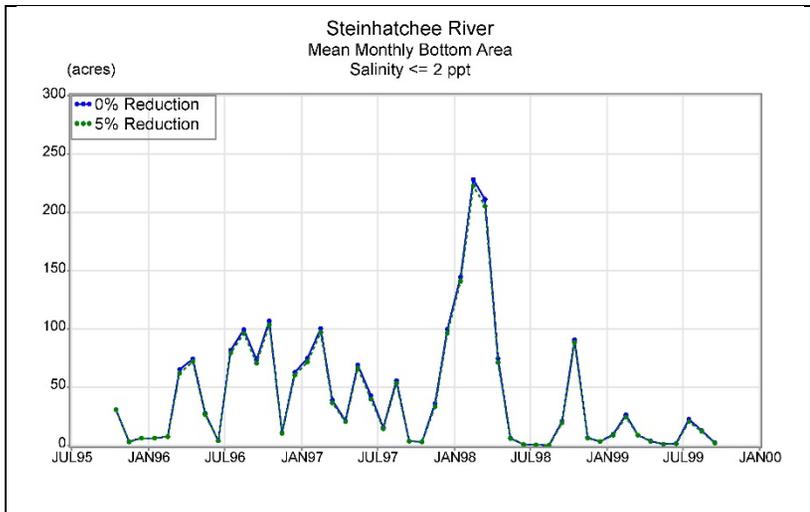


**Daily mean surface and bottom salinities versus flow (<median flow) for RM 4.5 and RM 5.5**

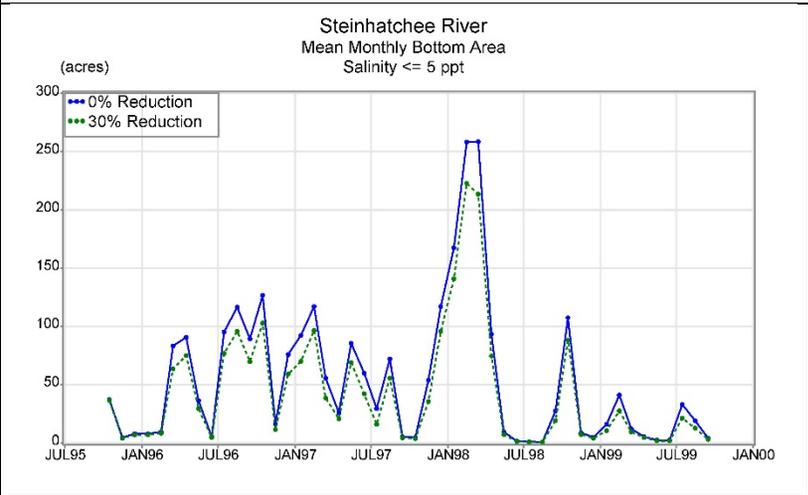
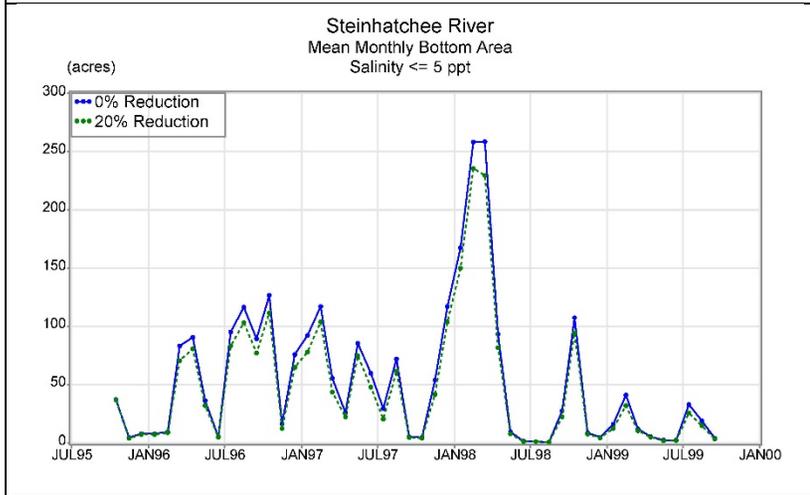
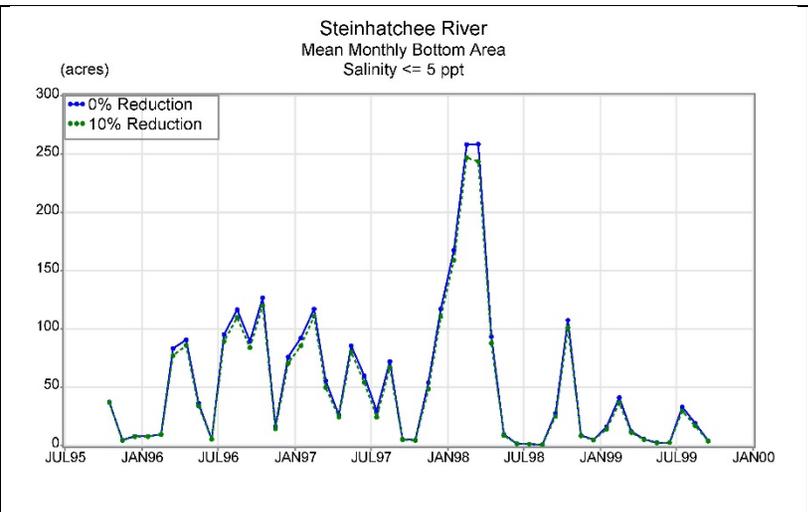
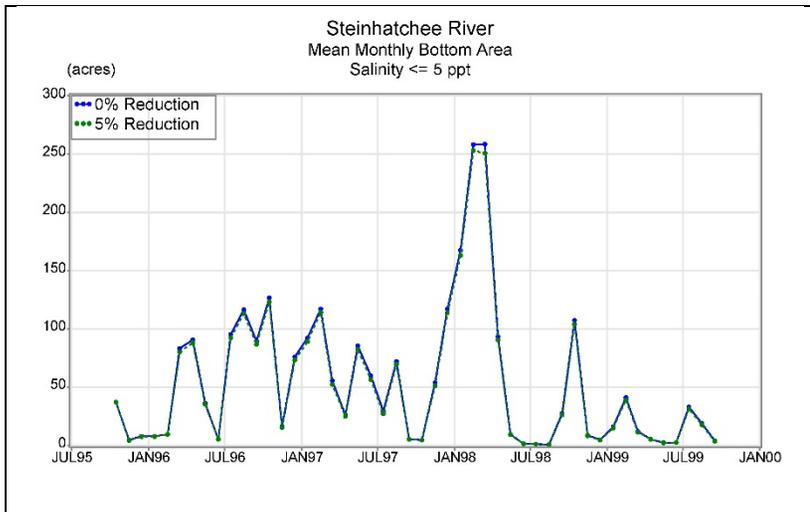
Time Series of  
Monthly Salinities by Habitat



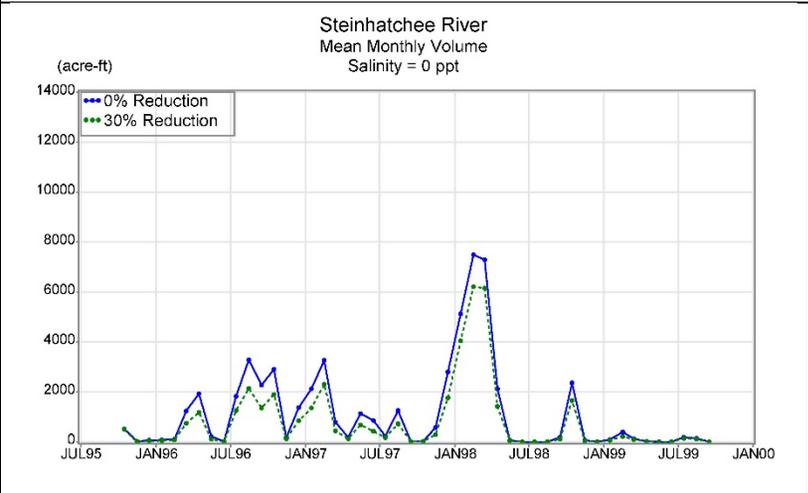
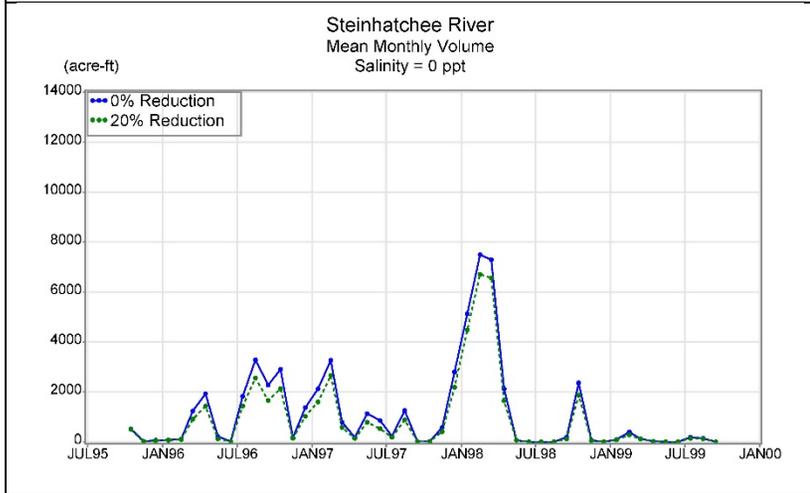
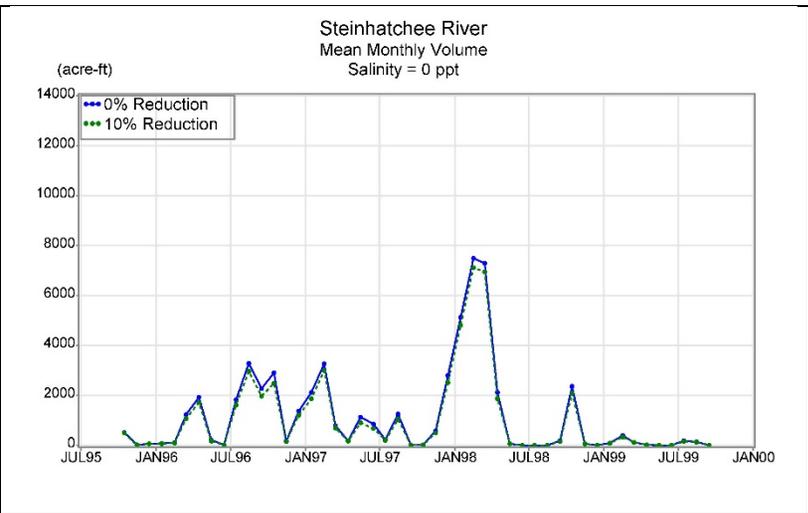
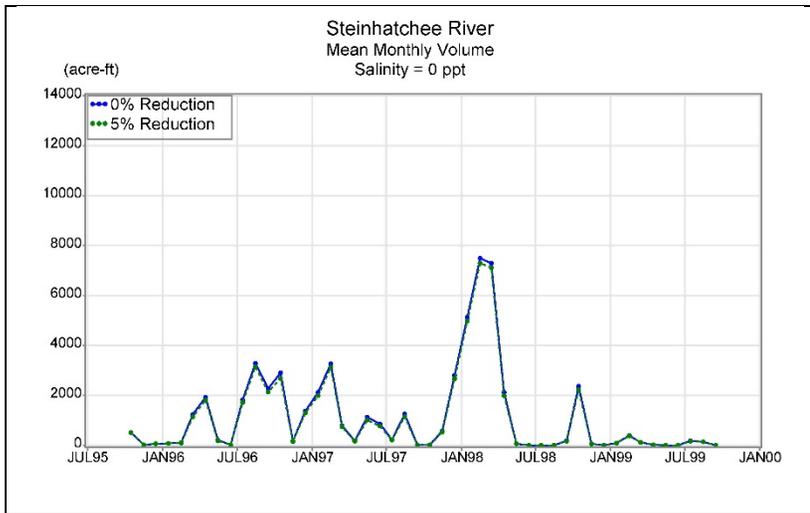
Time series of bottom area compared to 0 percent flow reduction (=0 ppt).



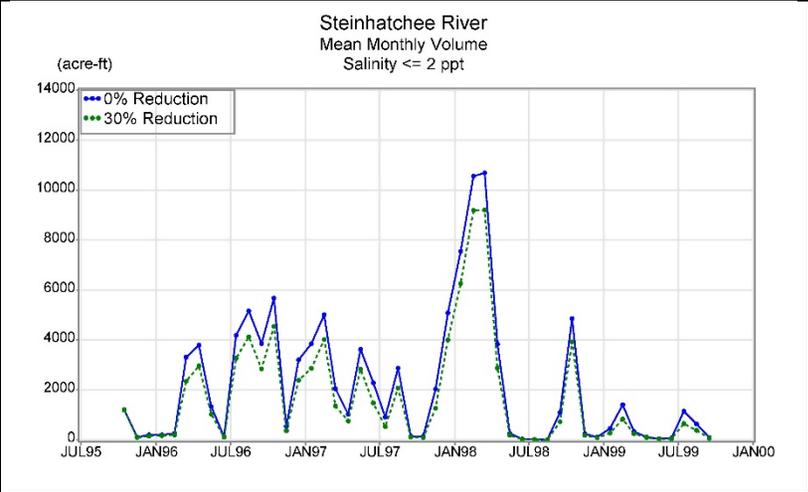
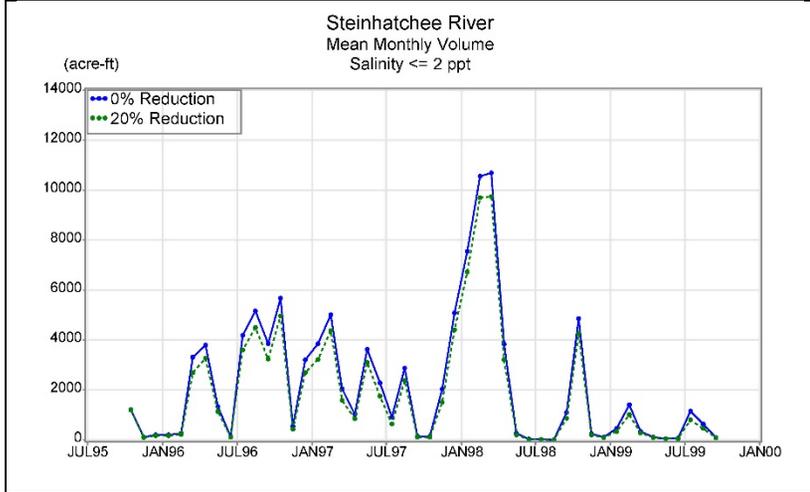
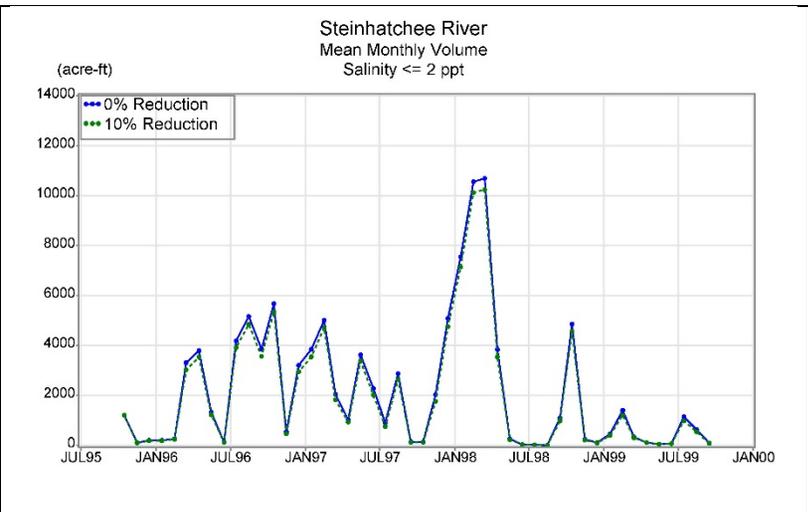
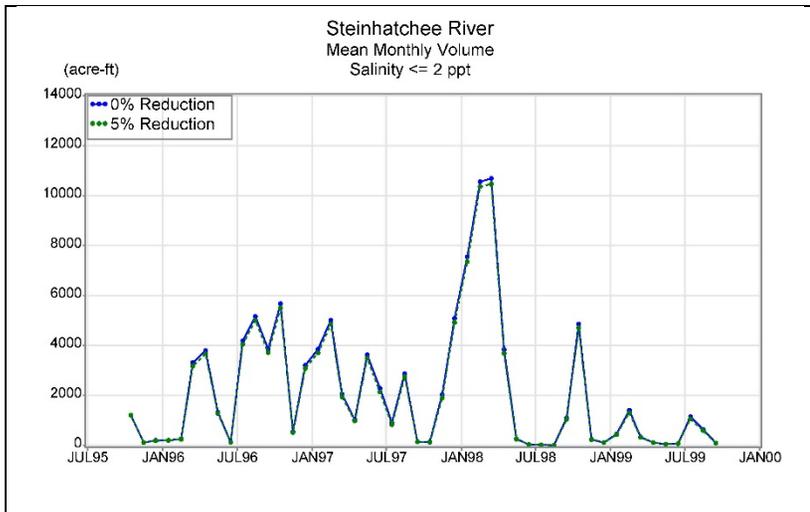
Time series of bottom area compared to 0 percent flow reduction (<=2 ppt).



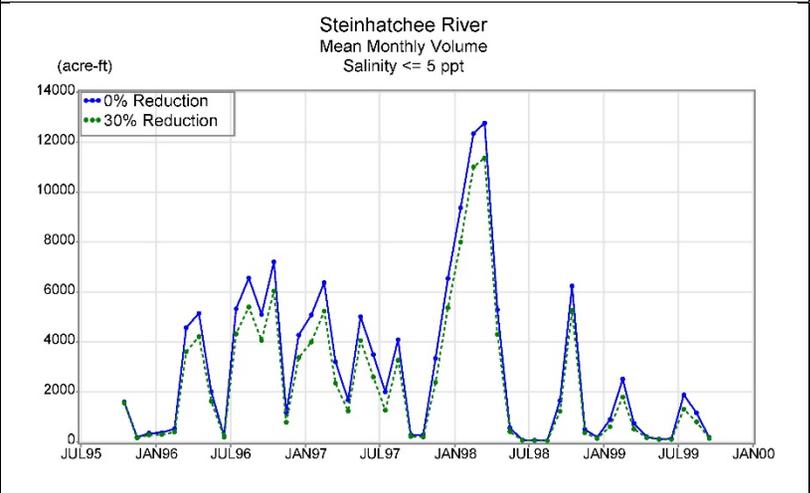
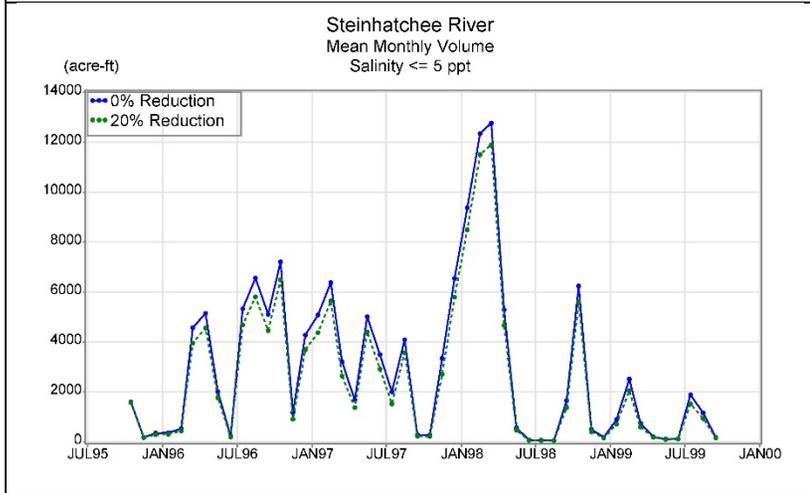
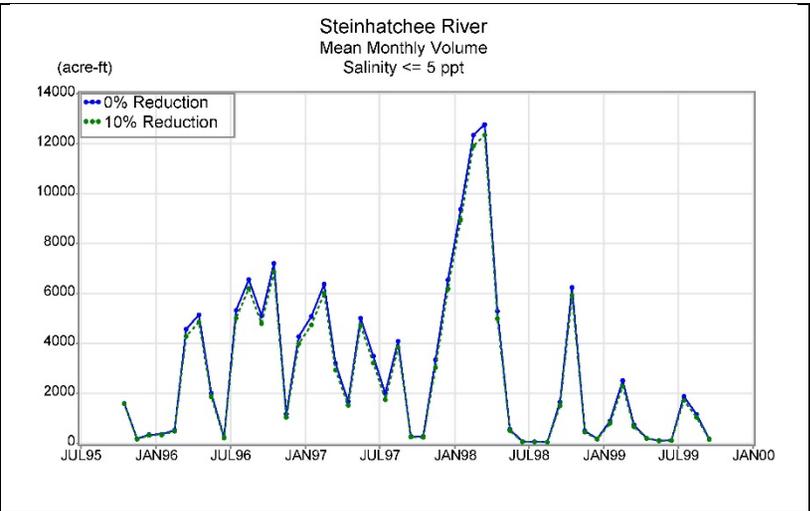
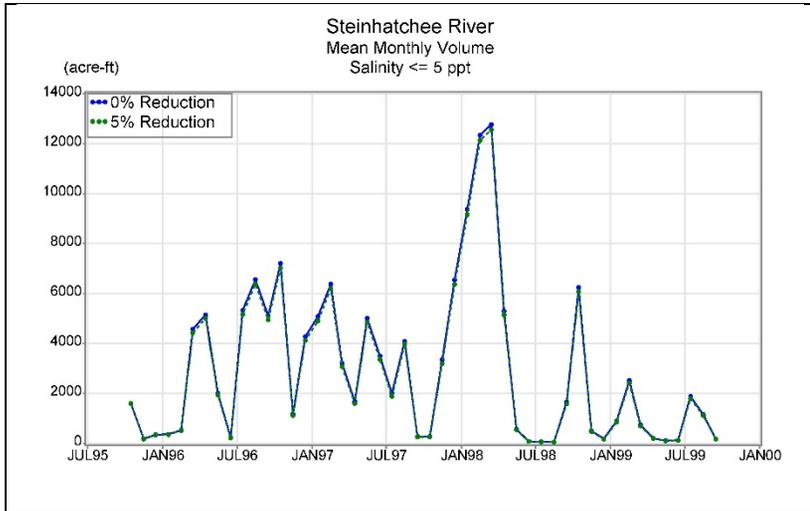
Time series of bottom area compared to 0 percent flow reduction (<=5 ppt).



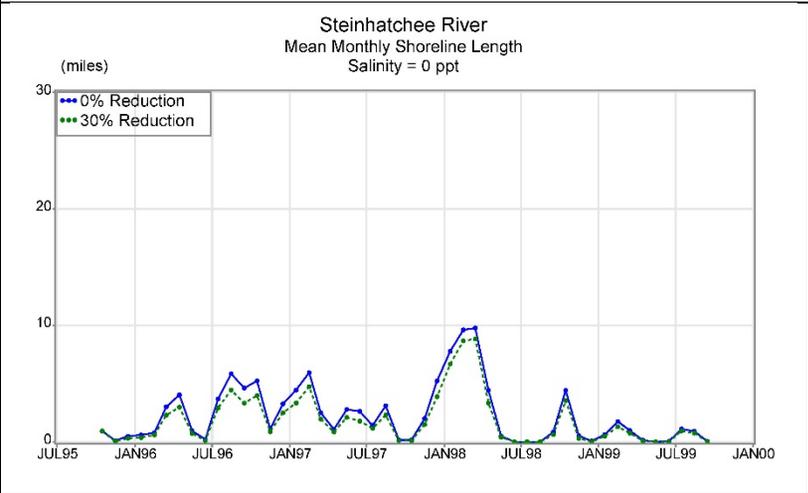
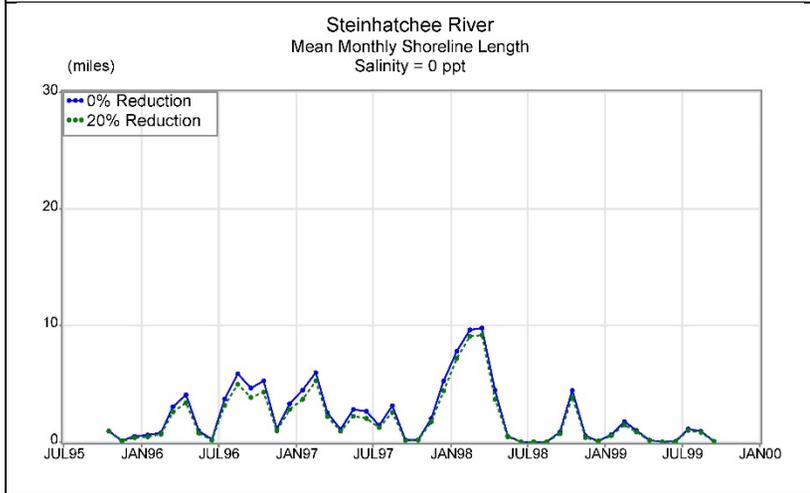
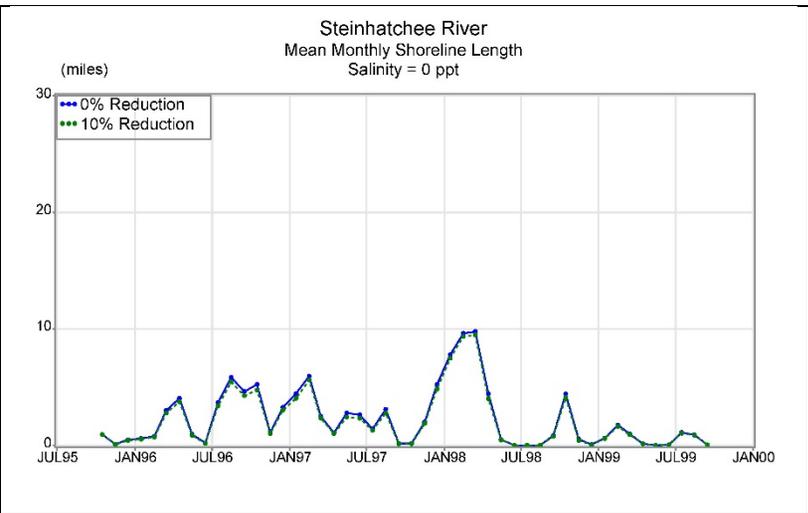
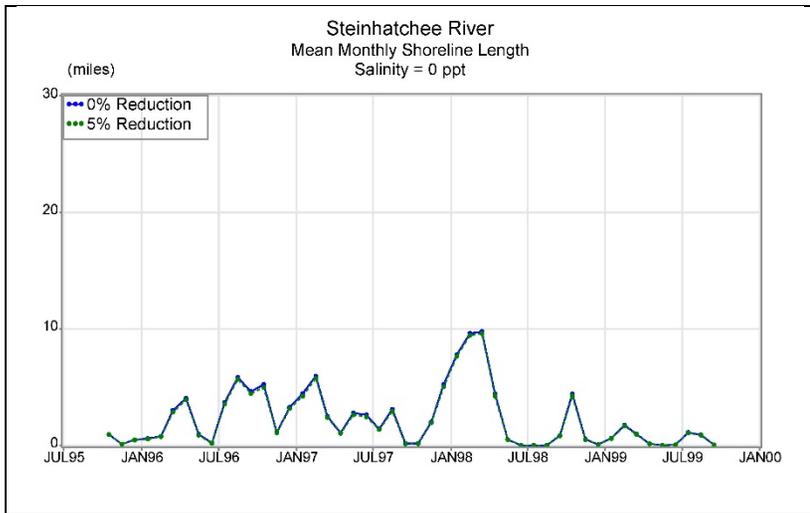
**Time series of habitat volume compared to 0 percent flow reduction (=0 ppt).**



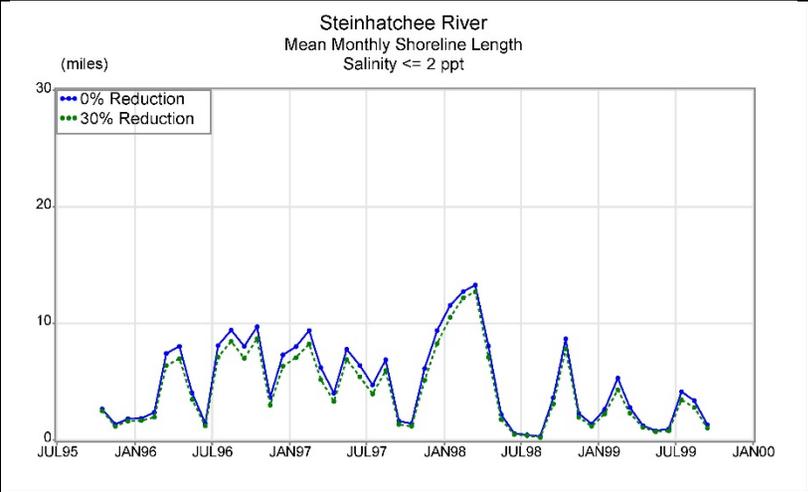
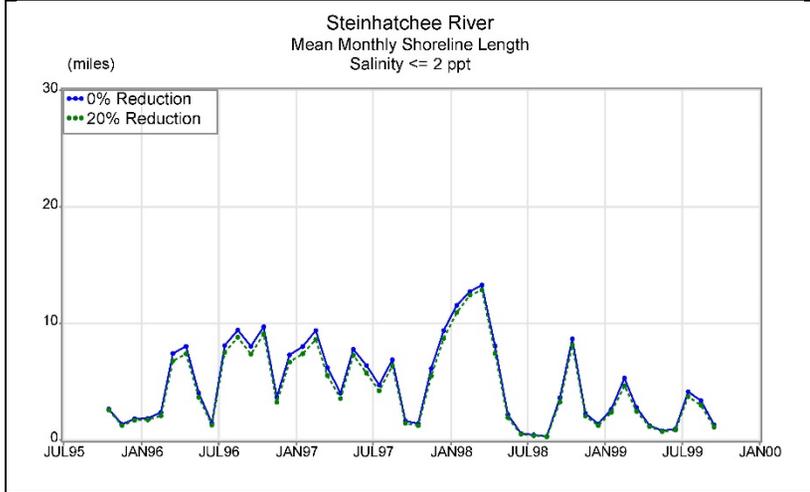
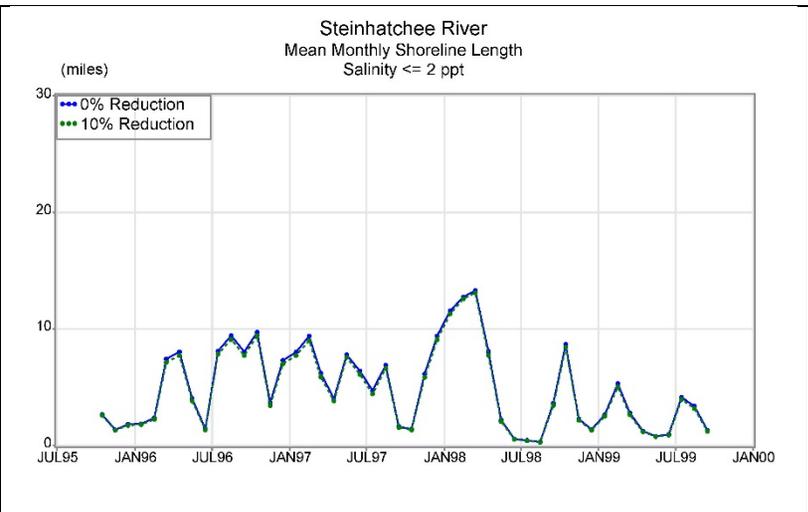
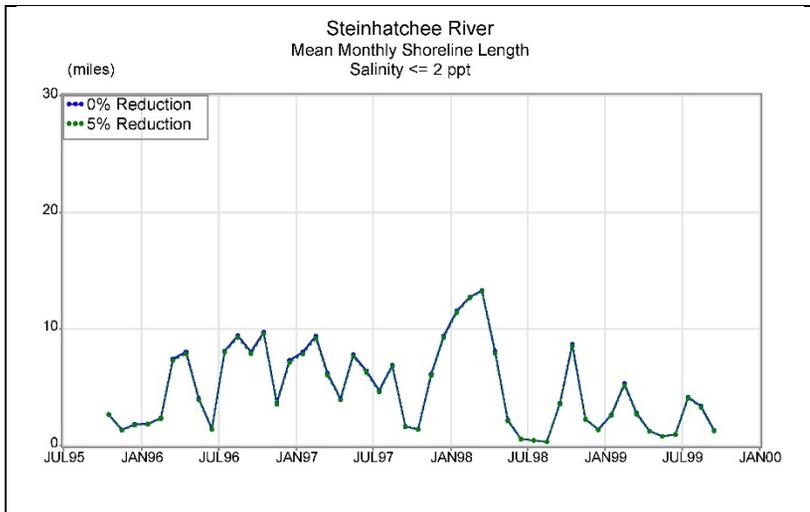
Time series of habitat volume compared to 2 percent flow reduction (<=2 ppt).



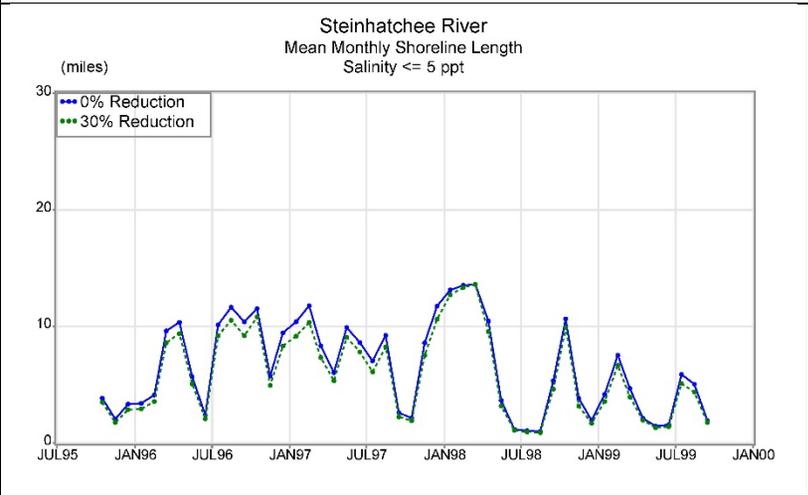
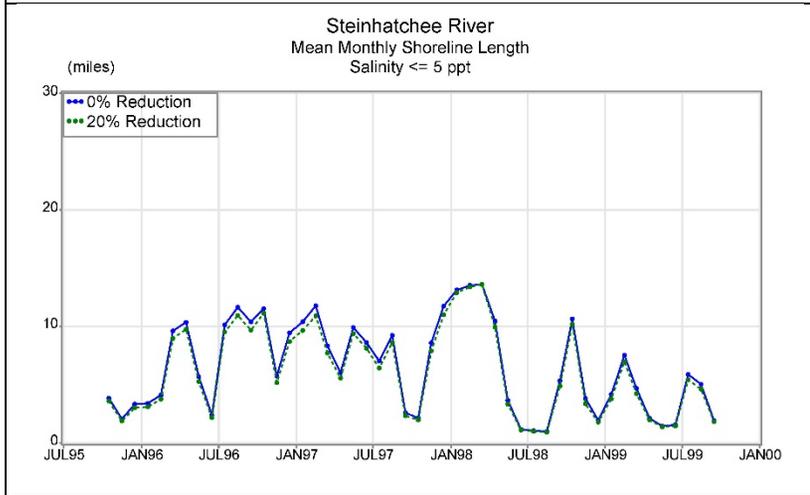
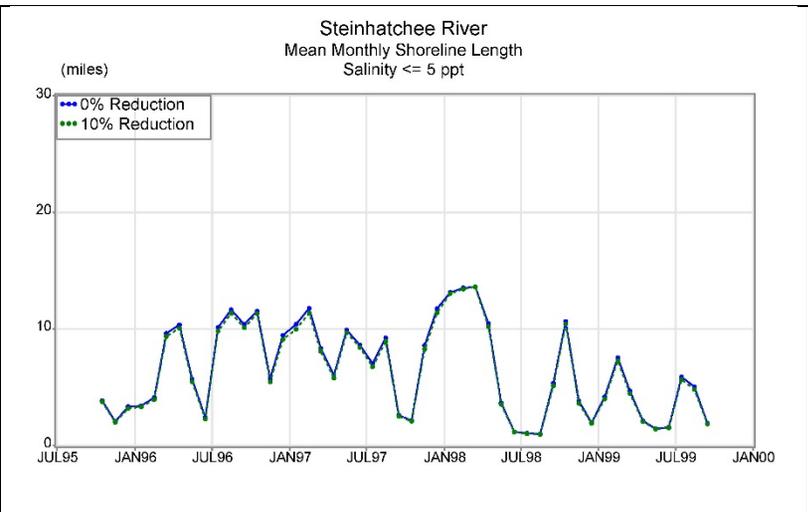
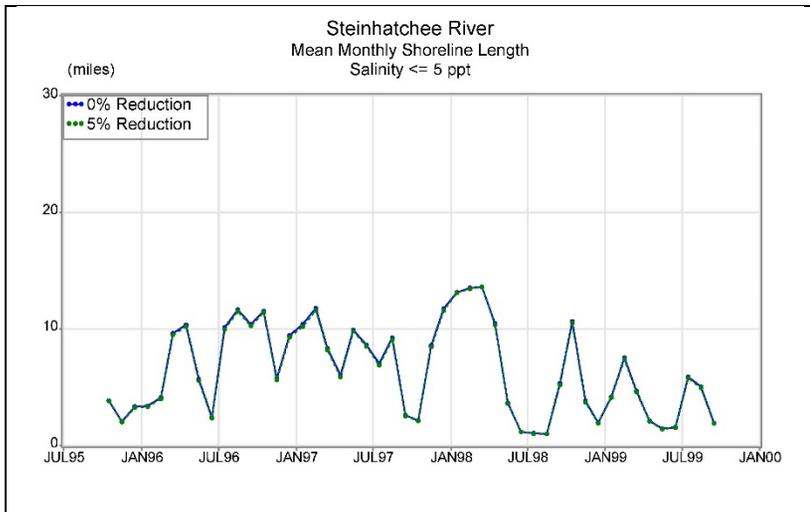
**Time series of habitat volume compared to 5 percent flow reduction (<=5 ppt).**



**Time series of shoreline length compared to 0 percent flow reduction (=0 ppt).**

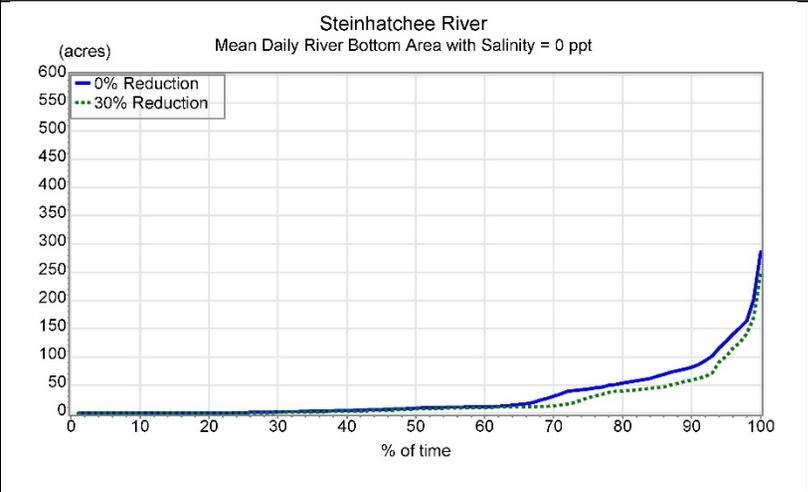
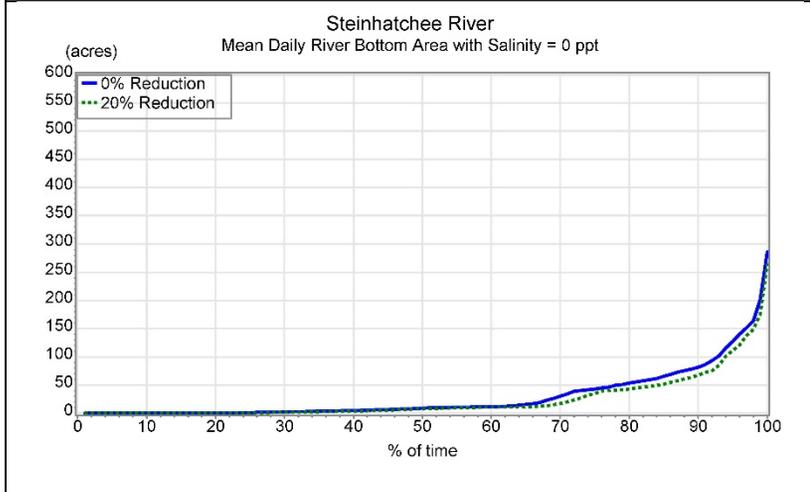
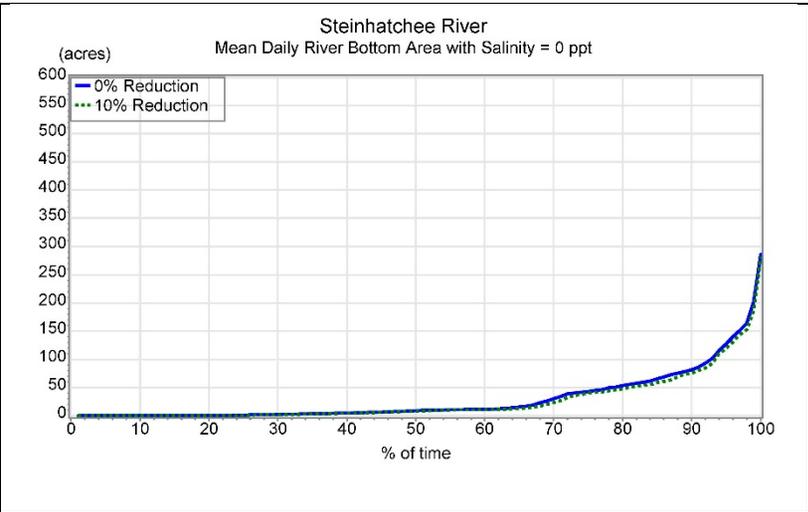
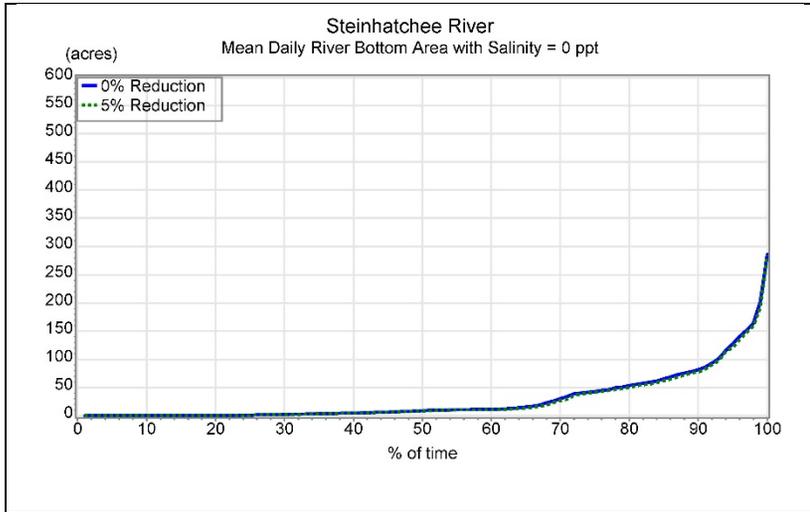


**Time series of shoreline length compared to 0 percent flow reduction (<=2 ppt).**

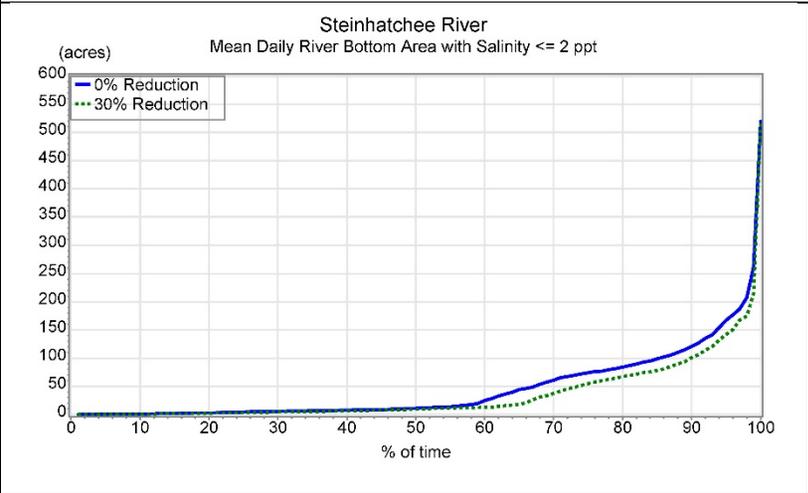
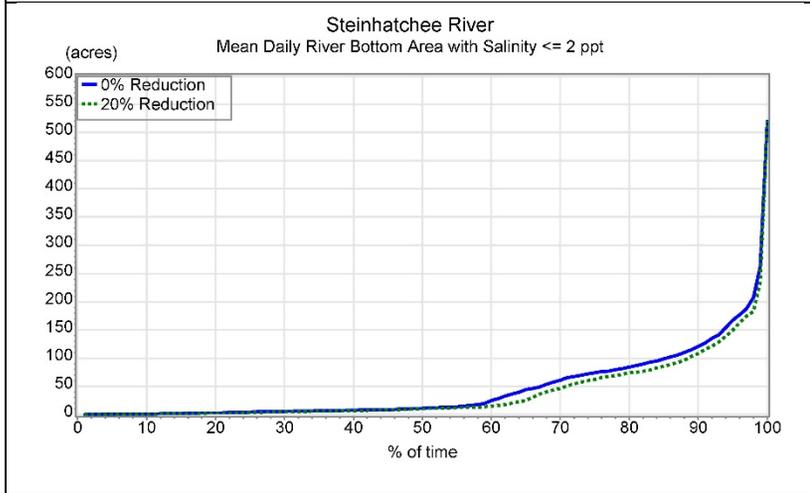
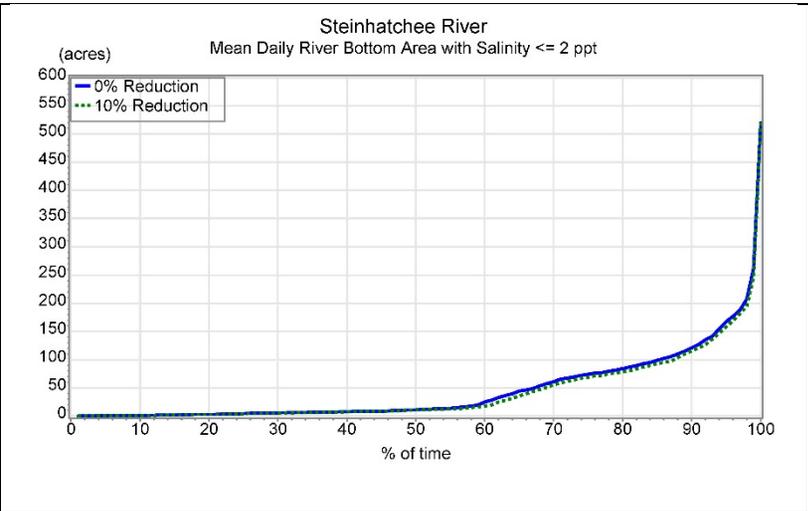
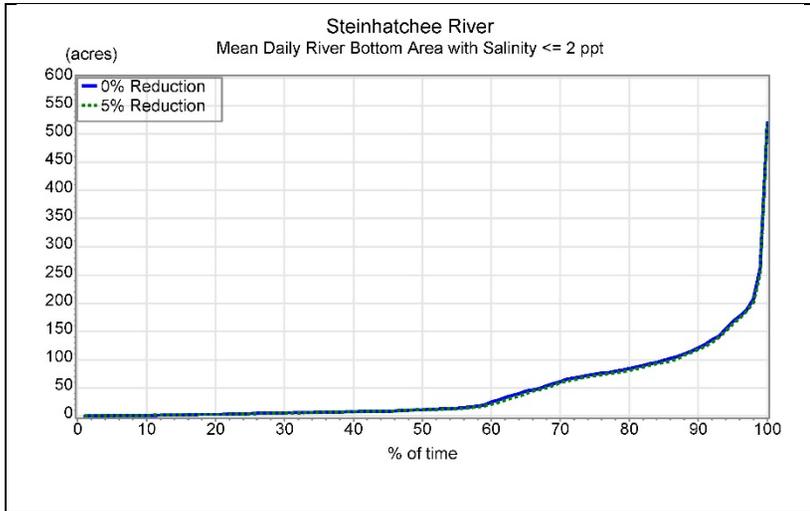


**Time series of shoreline length compared to 0 percent flow reduction (<=5 ppt).**

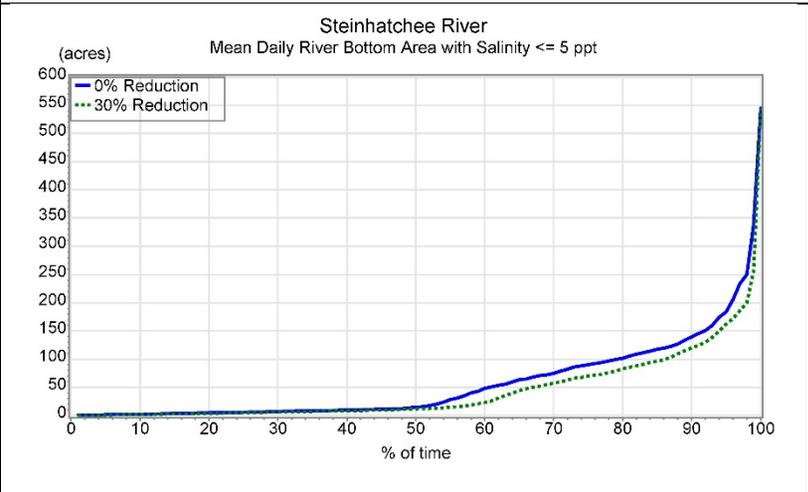
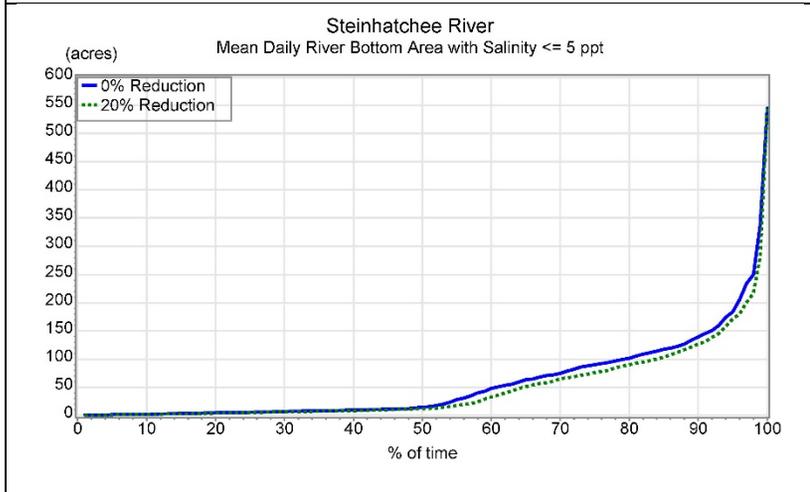
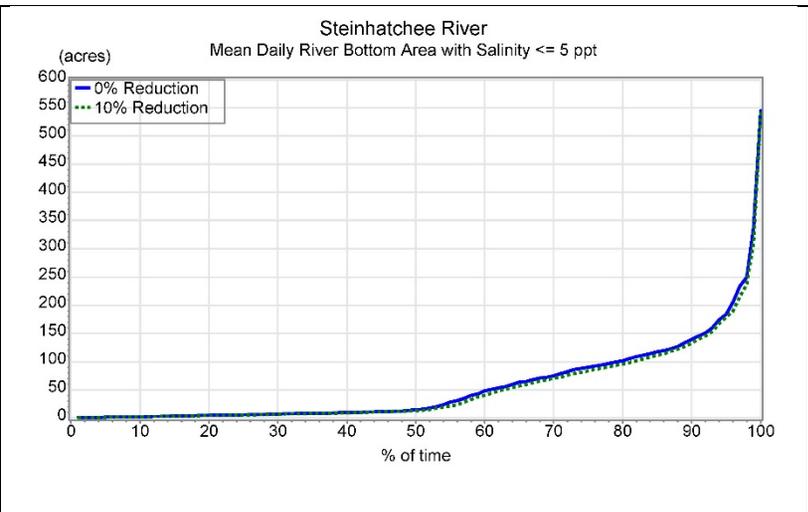
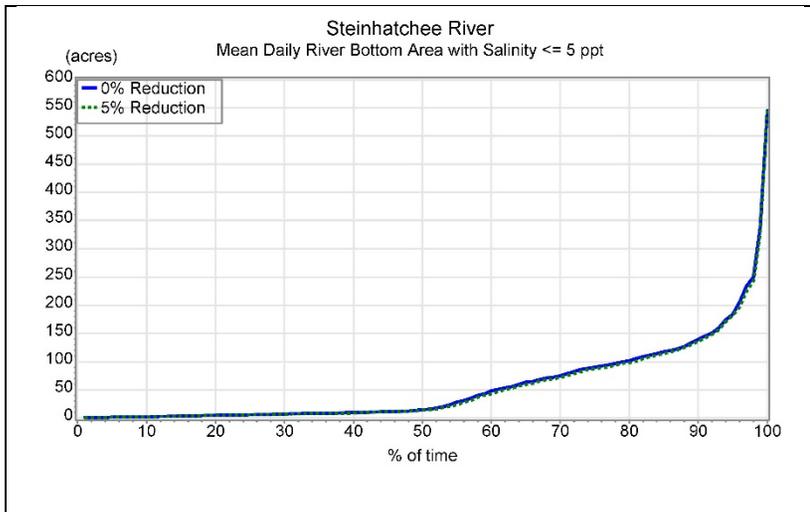
Cumulative Distribution Functions Of  
Salinity Verses Habitat



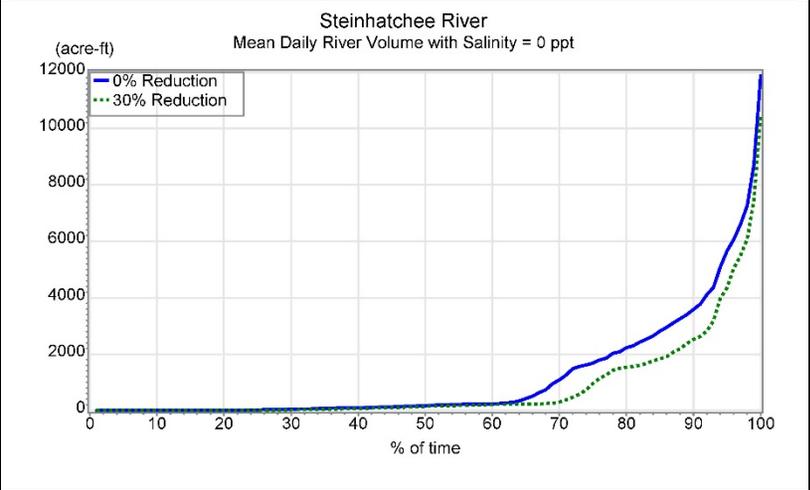
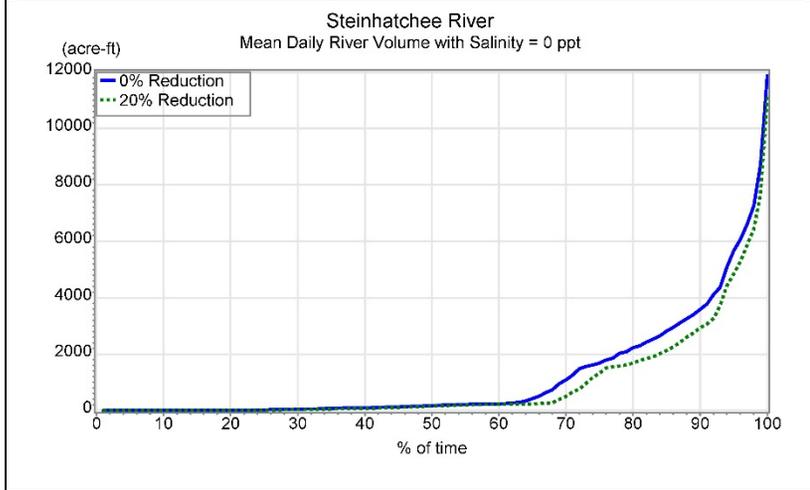
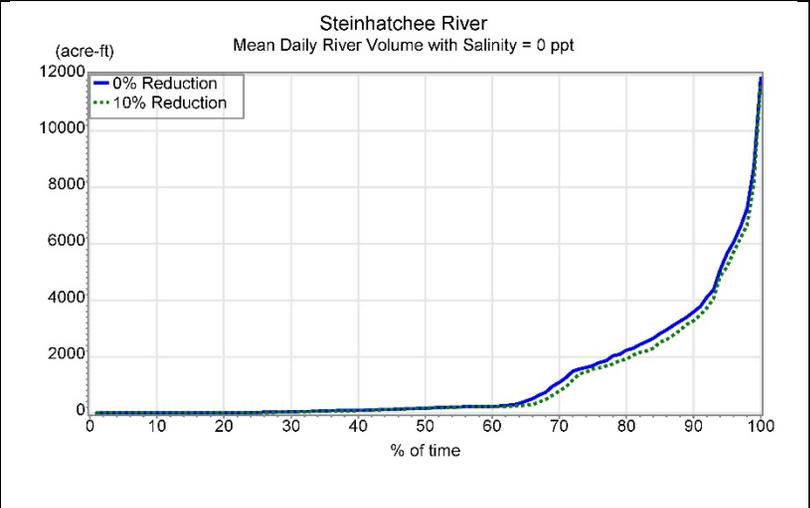
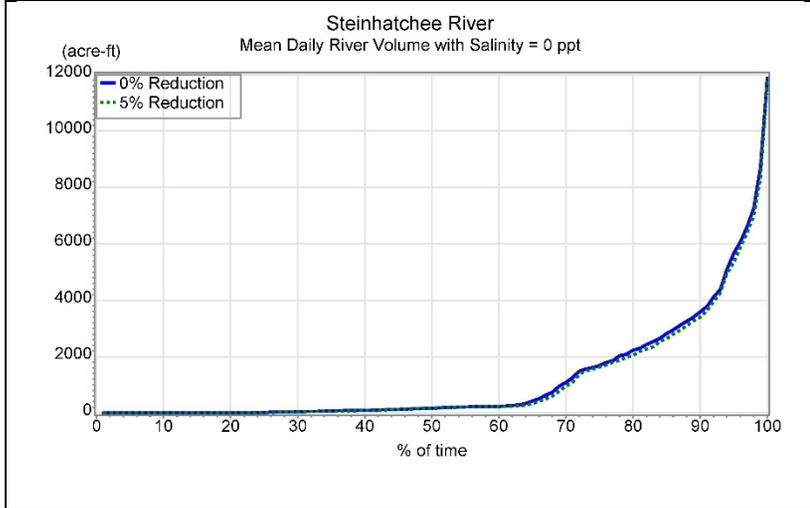
CDF of bottom area compared to 0 percent flow reduction (=0 ppt).



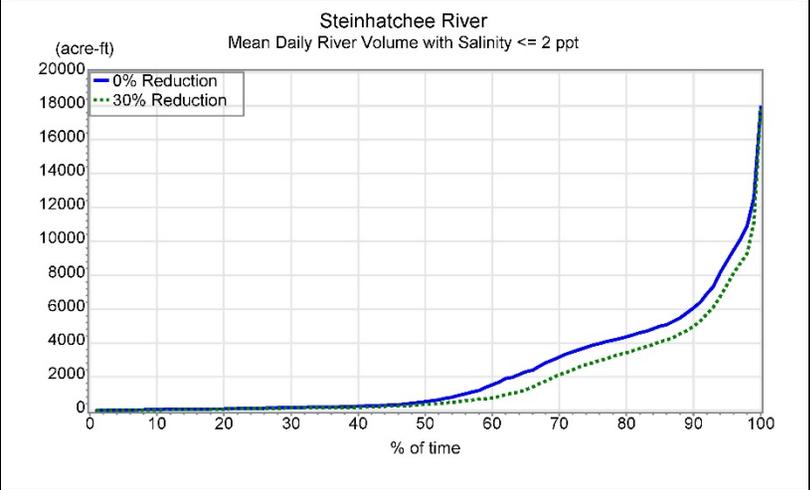
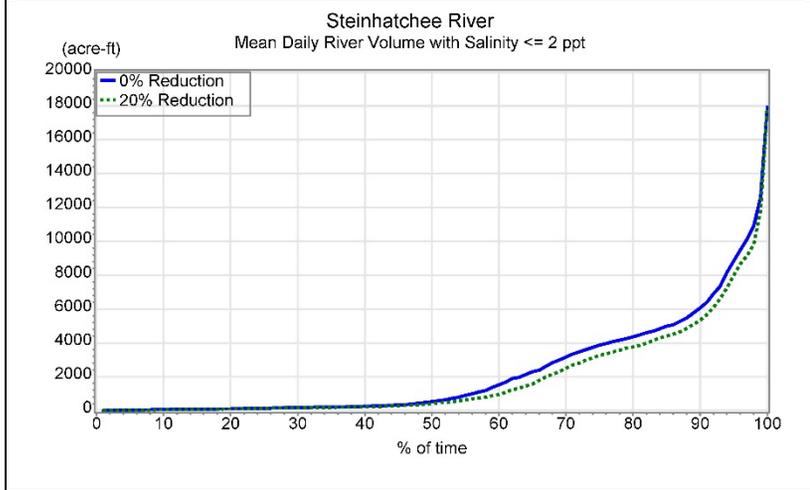
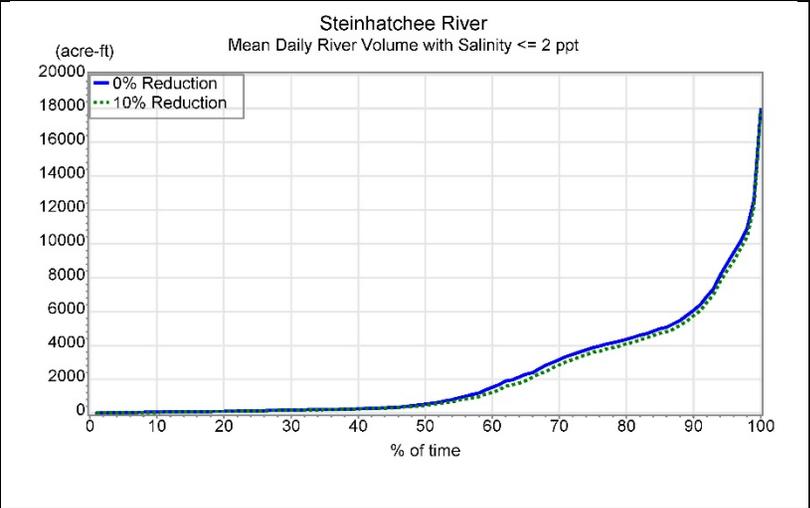
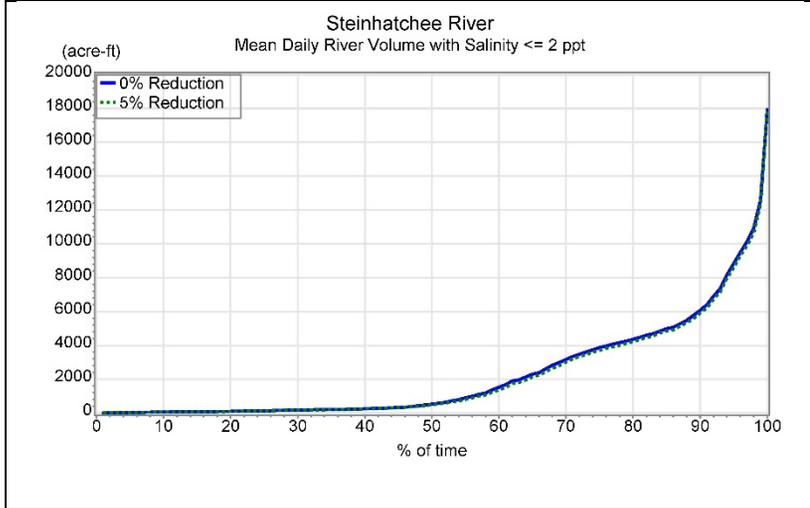
CDF of bottom area compared to 0 percent flow reduction ( $\leq 2$  ppt).



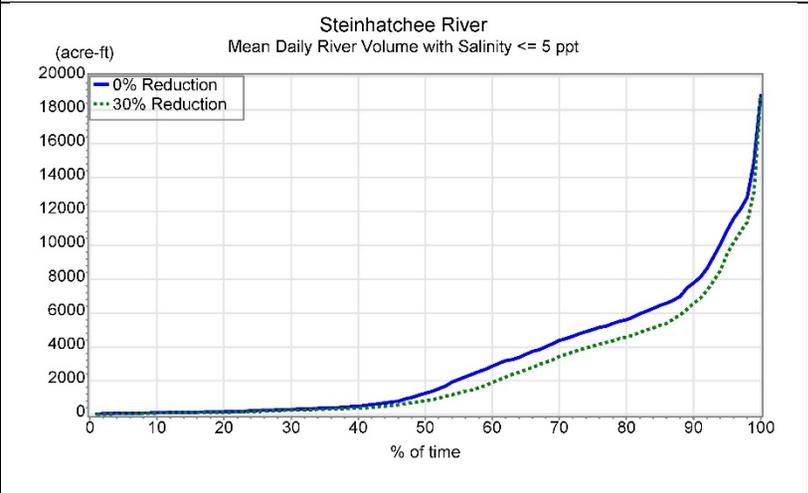
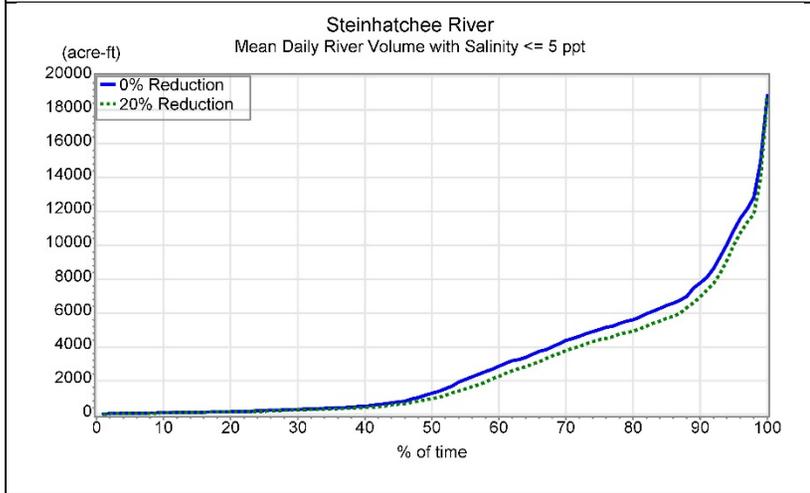
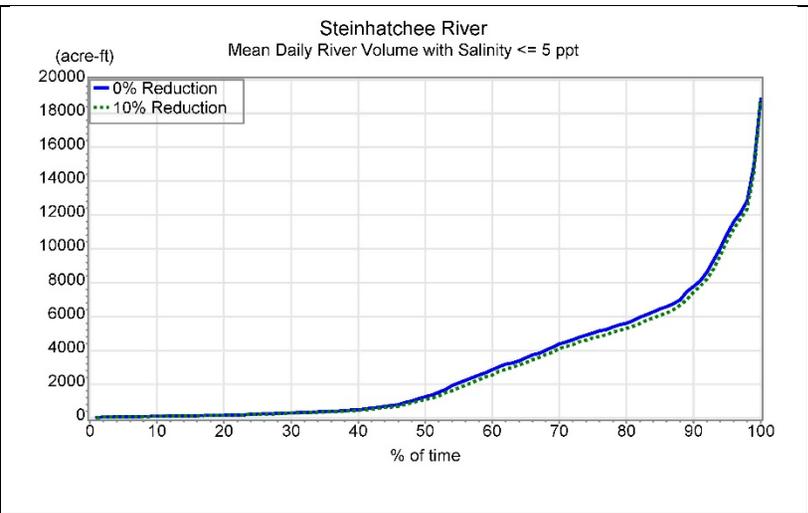
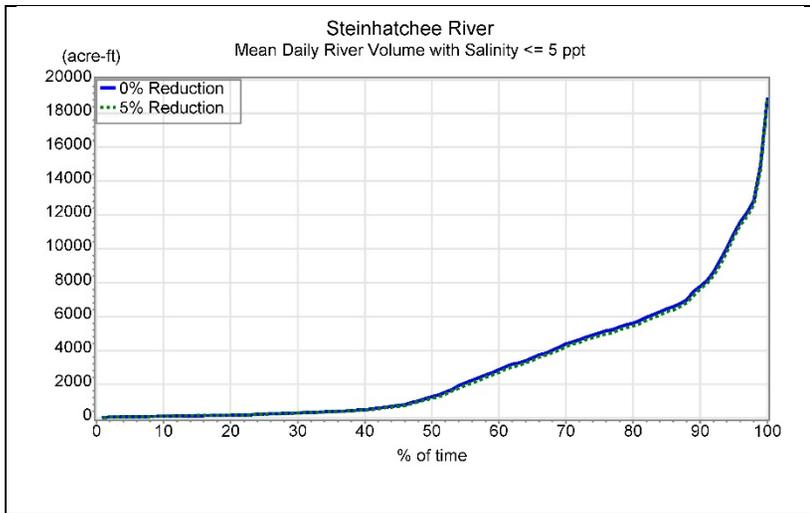
CDF of bottom area compared to 0 percent flow reduction ( $\leq 5$  ppt).



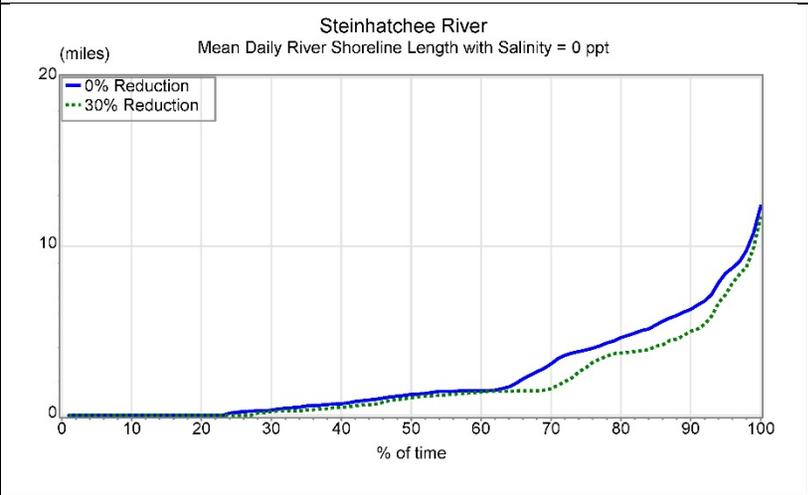
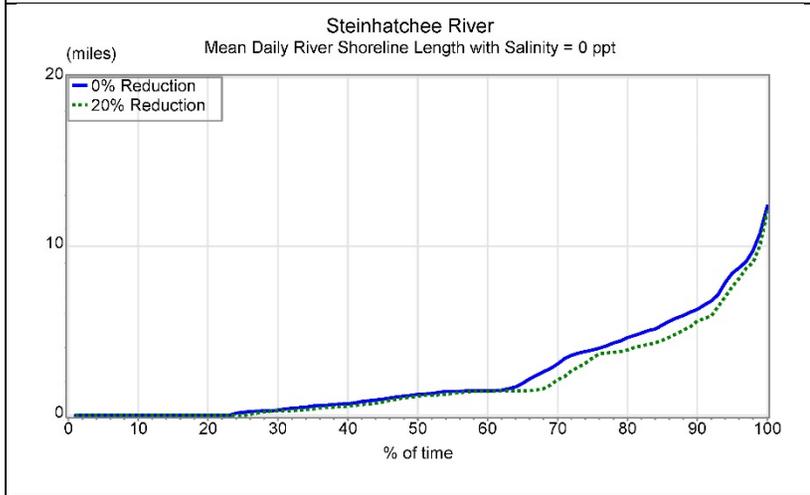
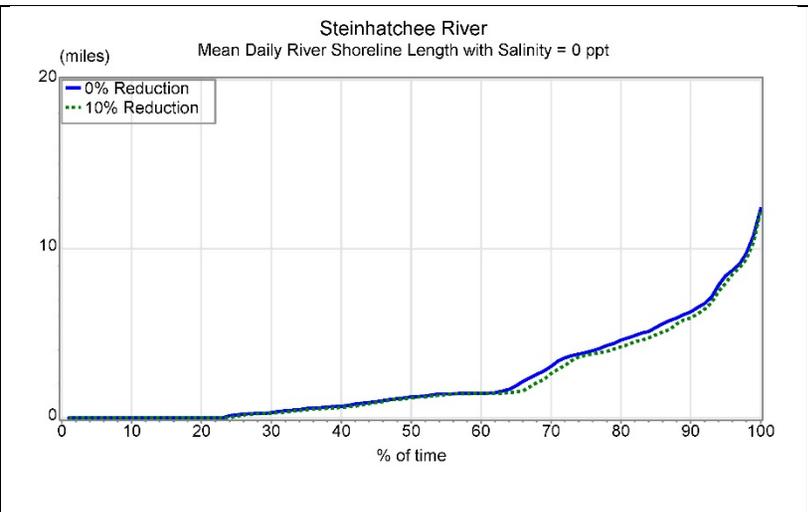
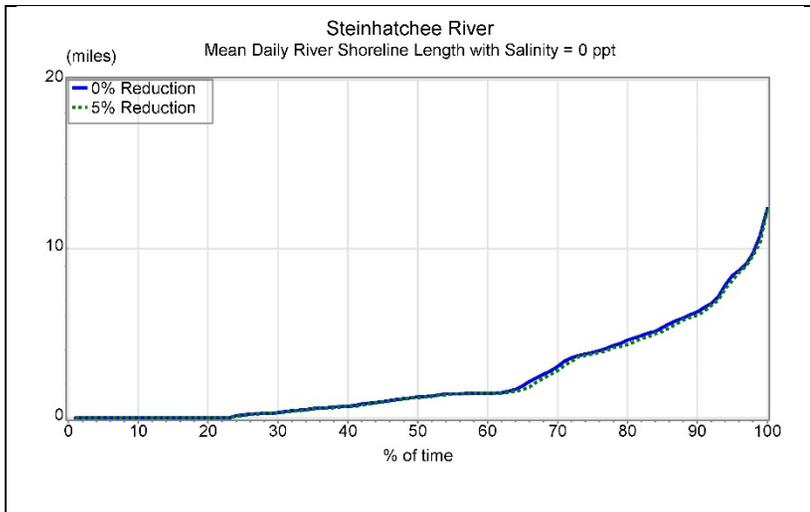
**CDF of habitat volume compared to 0 percent flow reduction (=0 ppt).**



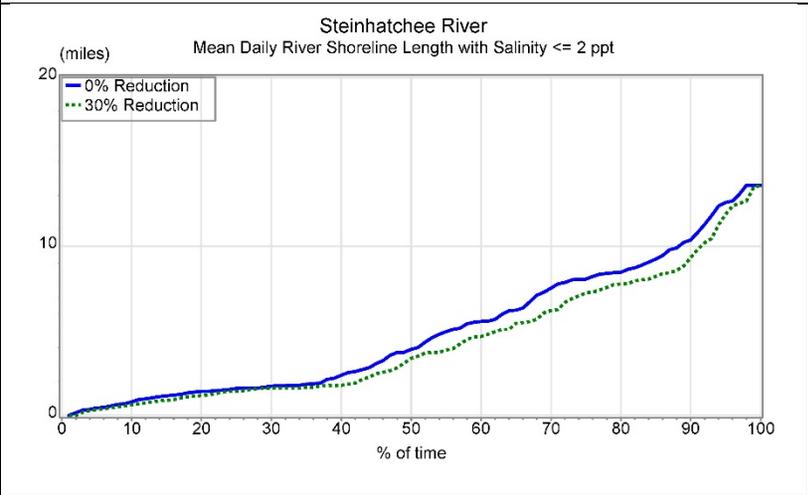
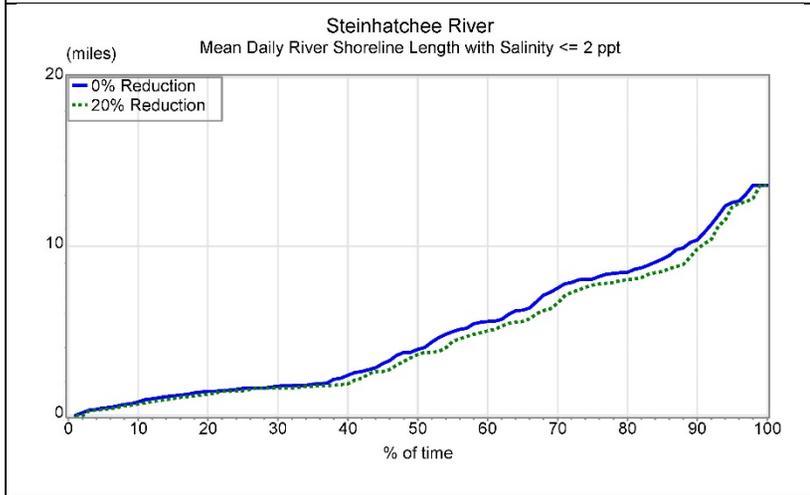
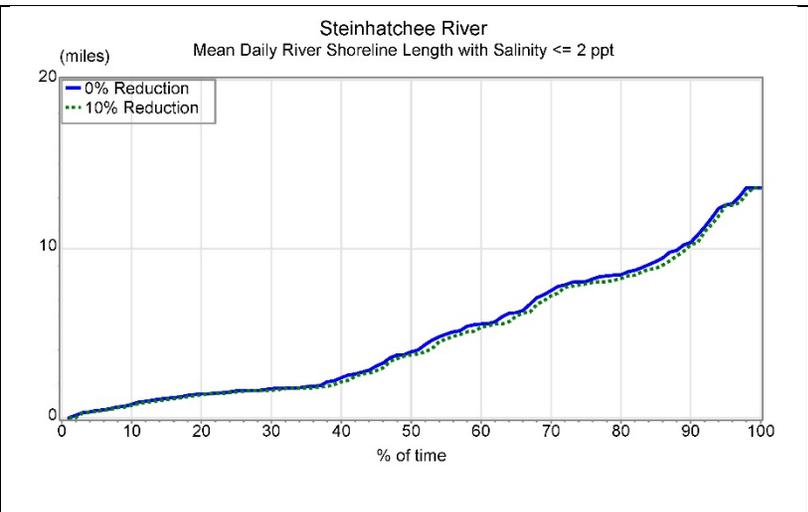
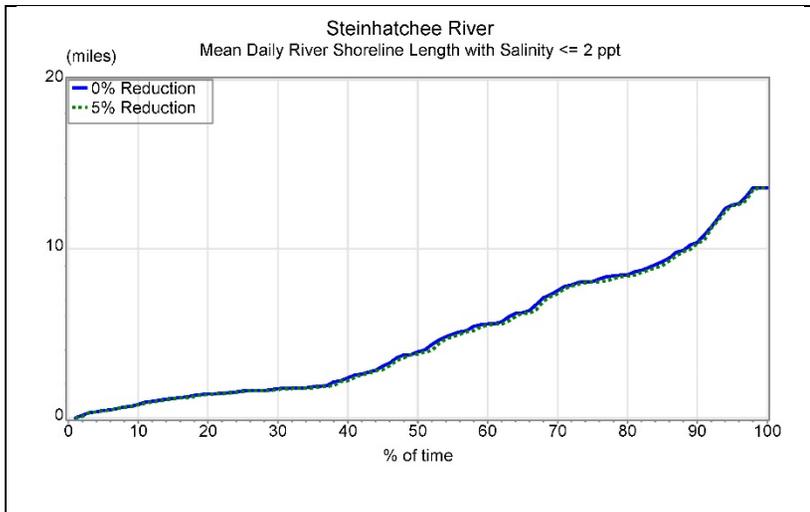
**CDF of habitat volume compared to 0 percent flow reduction ( $\leq 2$  ppt).**



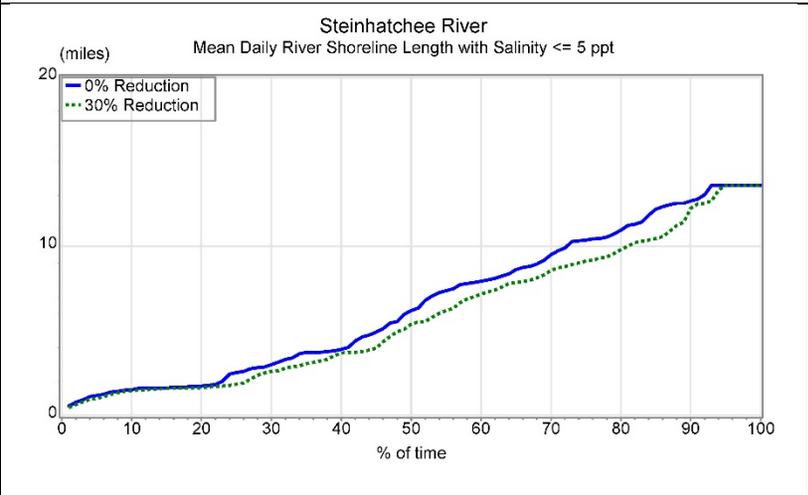
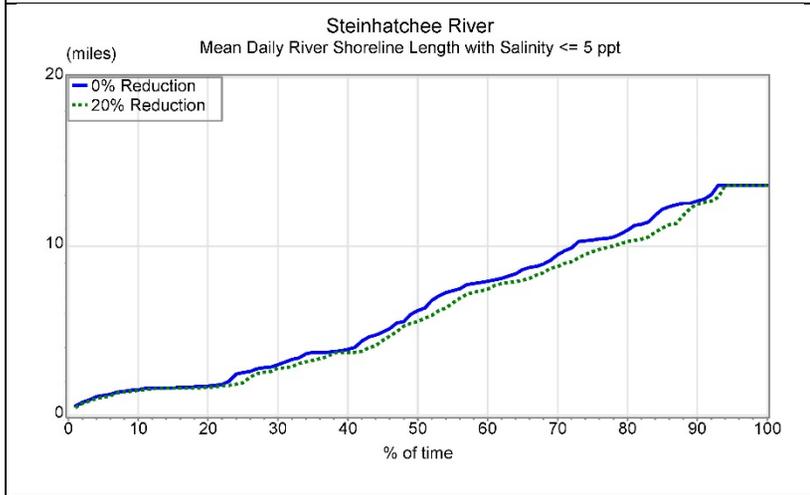
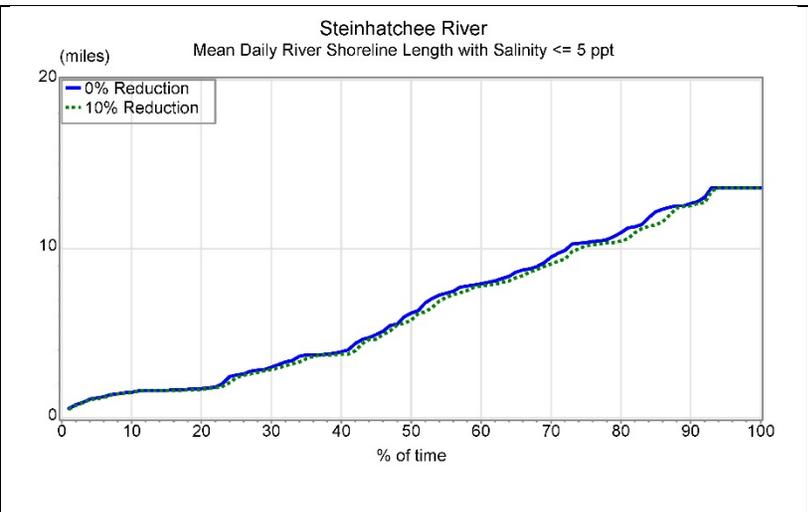
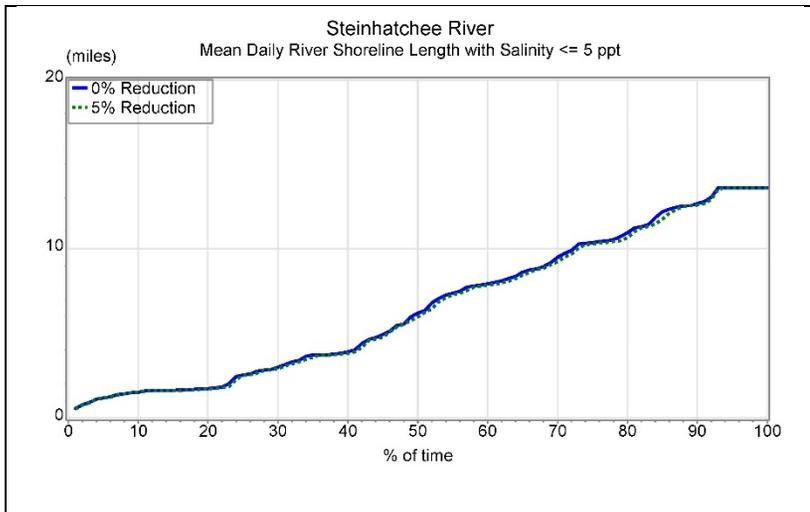
**CDF of habitat volume compared to 0 percent flow reduction ( $\leq$ 5 ppt).**



**CDF of shoreline length compared to 0 percent flow reduction (=0 ppt).**



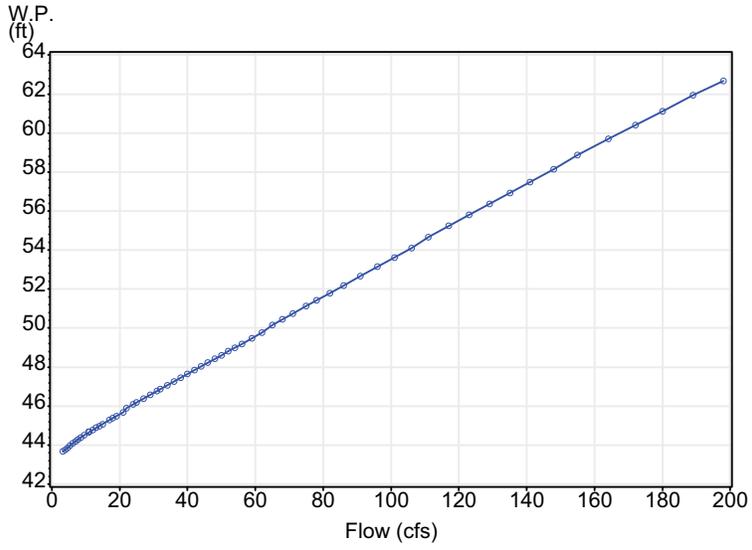
**CDF of shoreline length compared to 0 percent flow reduction ( $\leq 2$  ppt).**



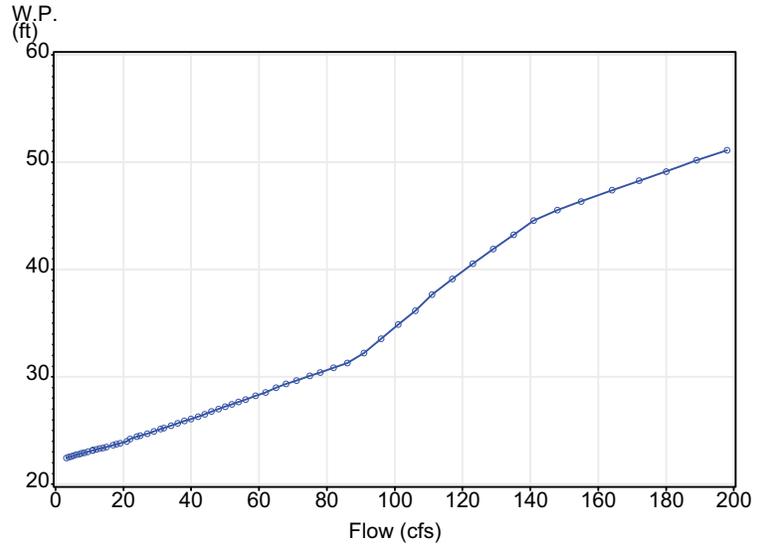
**CDF of shoreline length compared to 0 percent flow reduction ( $\leq 5$  ppt).**

## Wetted Perimeter versus Flow

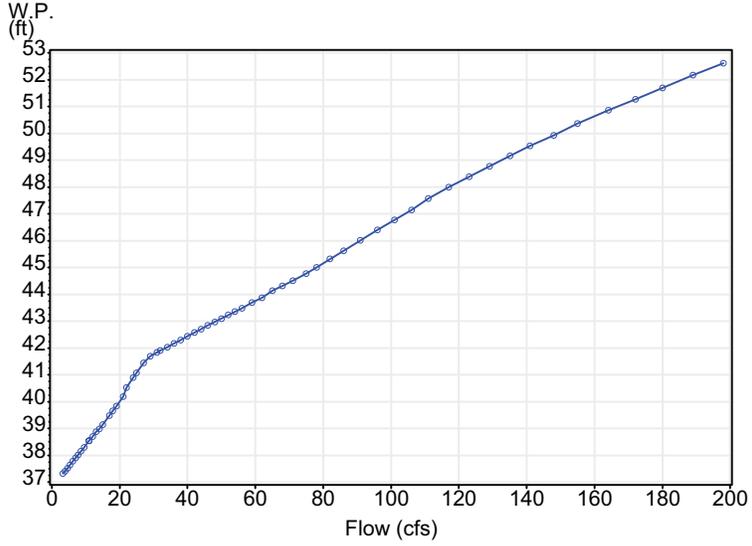
Steinhatchee River - RM 11.6



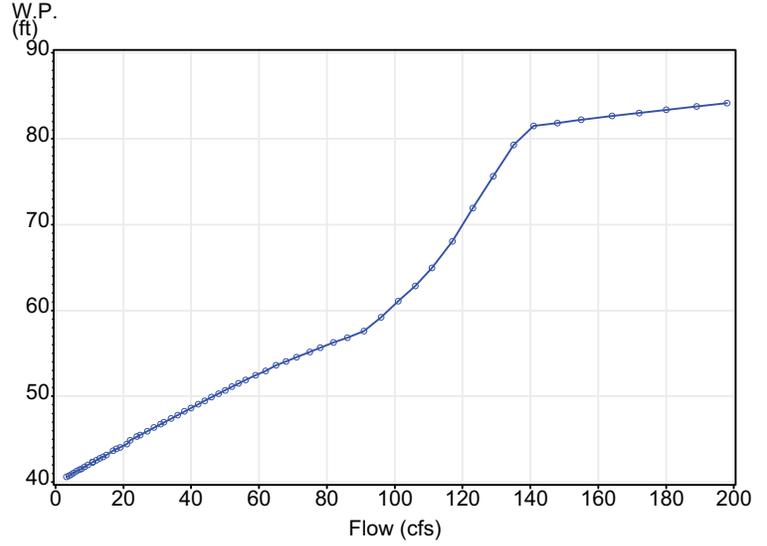
Steinhatchee River - RM 11.9



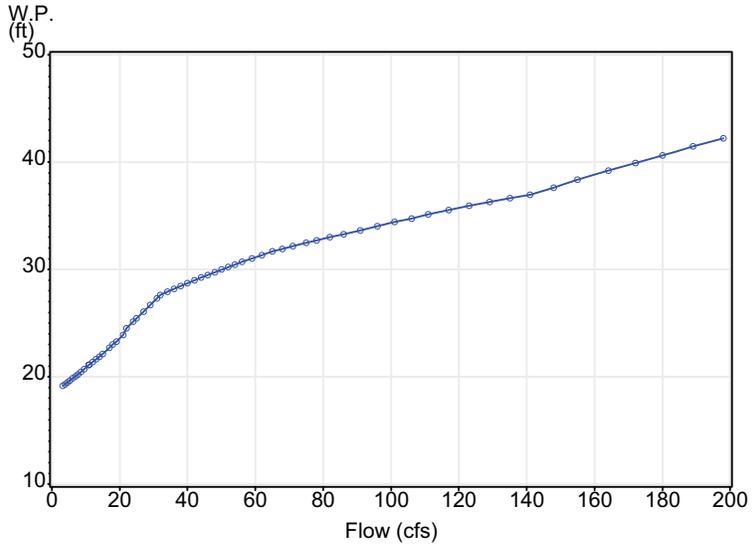
Steinhatchee River - RM 12.15



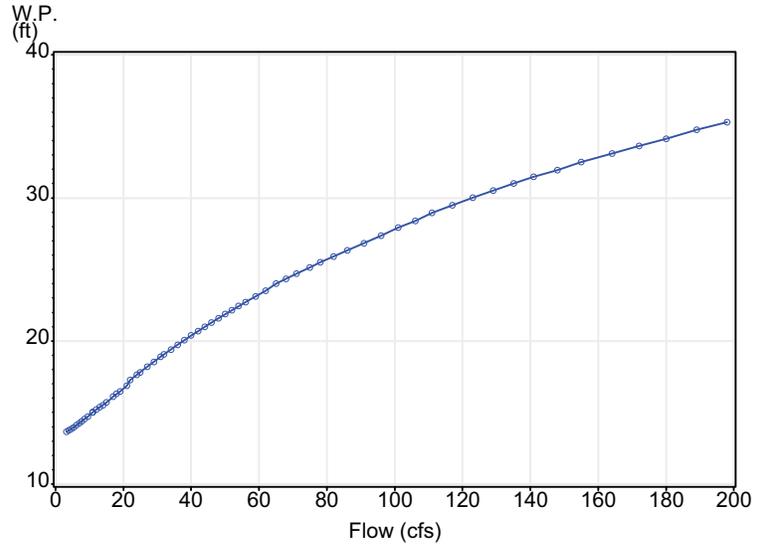
Steinhatchee River - RM 12.4



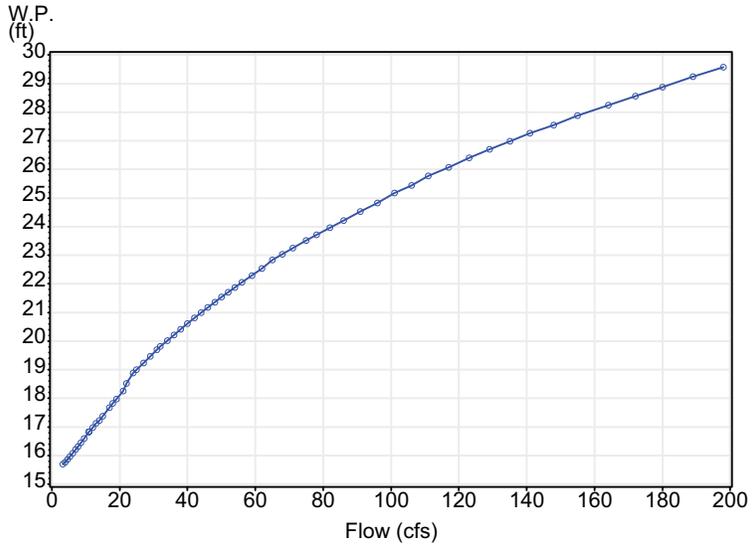
Steinhatchee River - RM 12.85



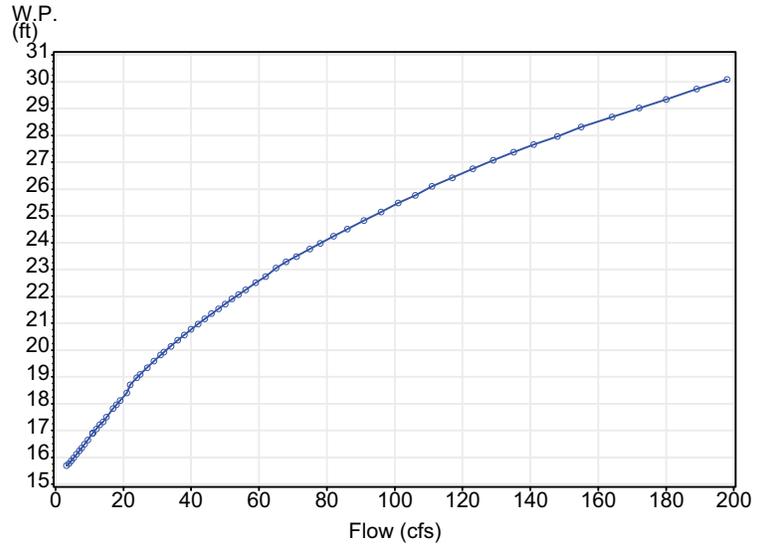
Steinhatchee River - RM 12.89



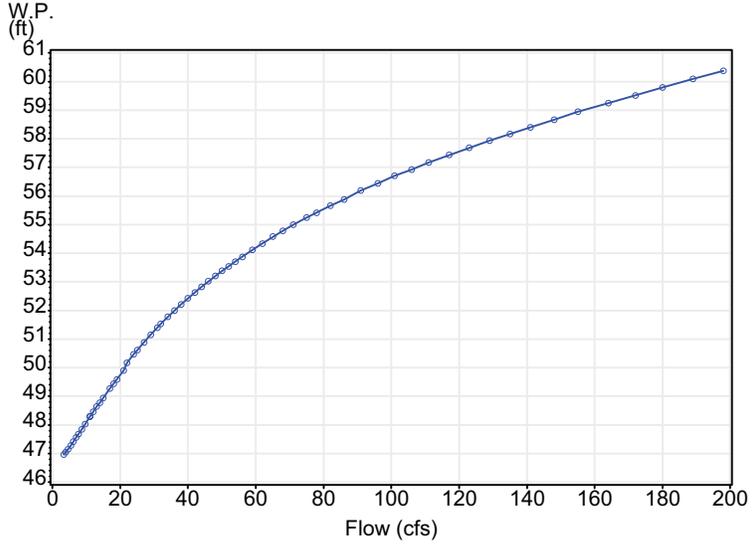
Steinhatchee River - RM 12.92



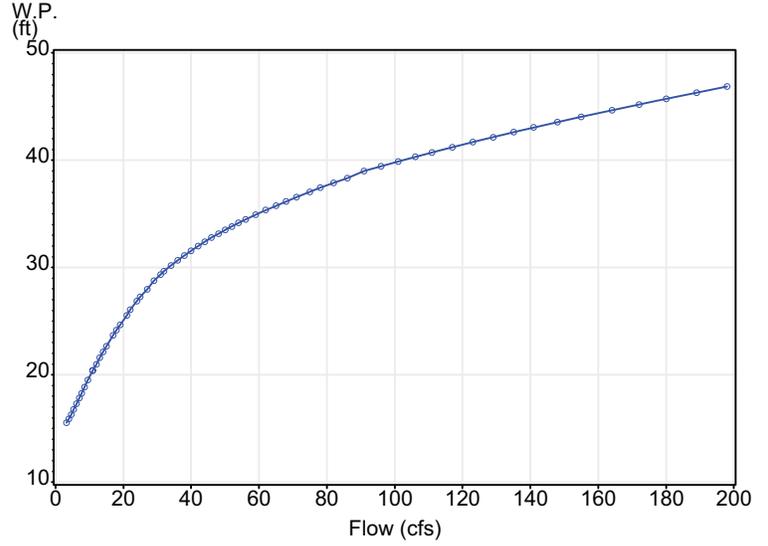
Steinhatchee River - RM 12.95



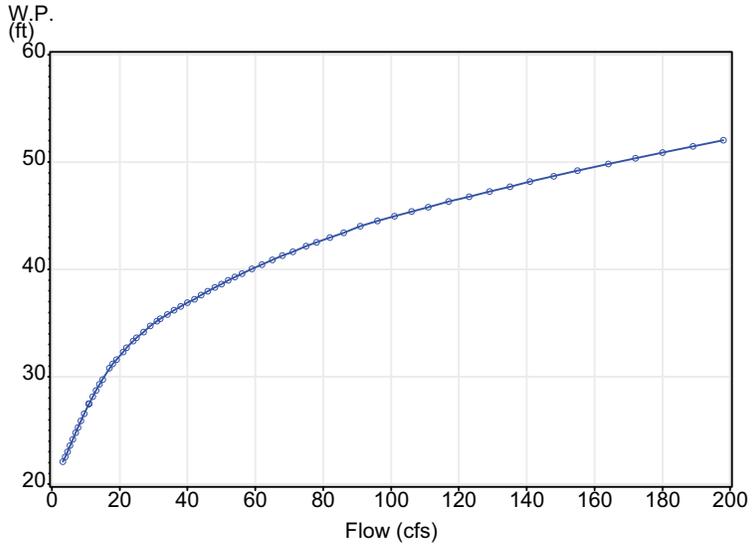
Steinhatchee River - RM 13.05



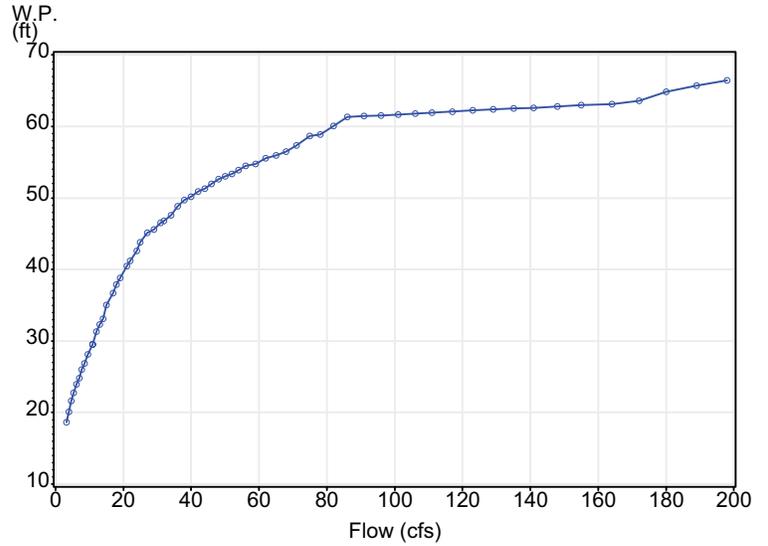
Steinhatchee River - RM 13.4



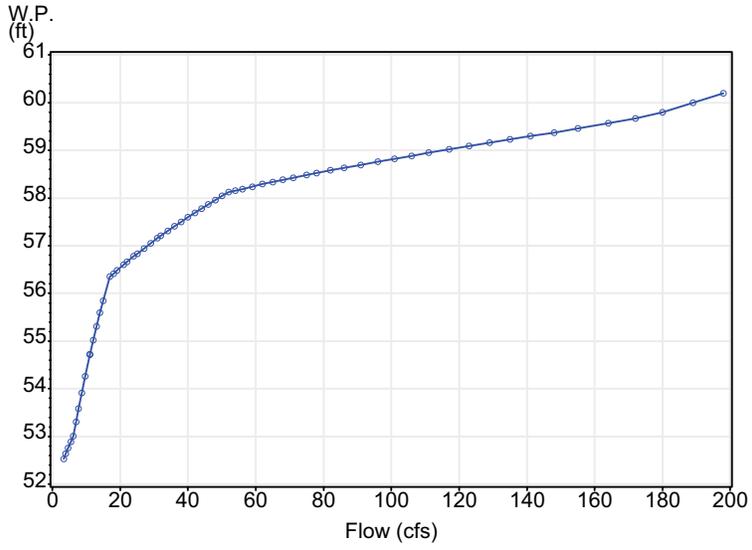
Steinhatchee River - RM 13.7



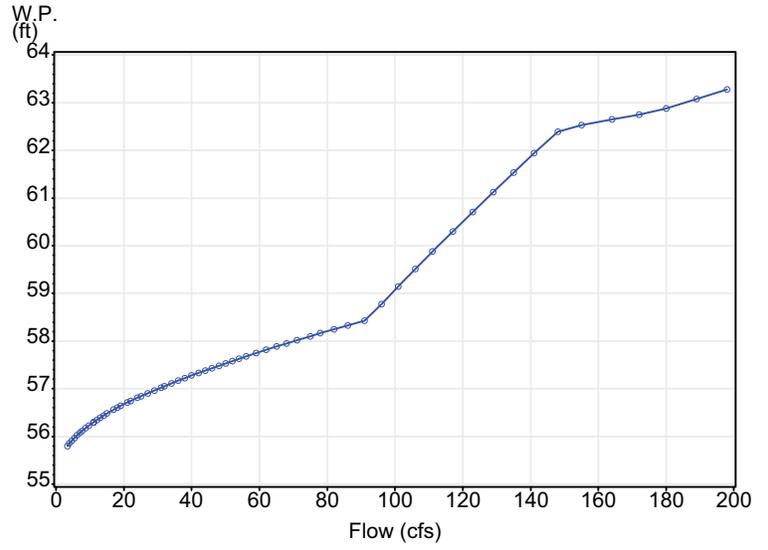
Steinhatchee River - RM 14.17



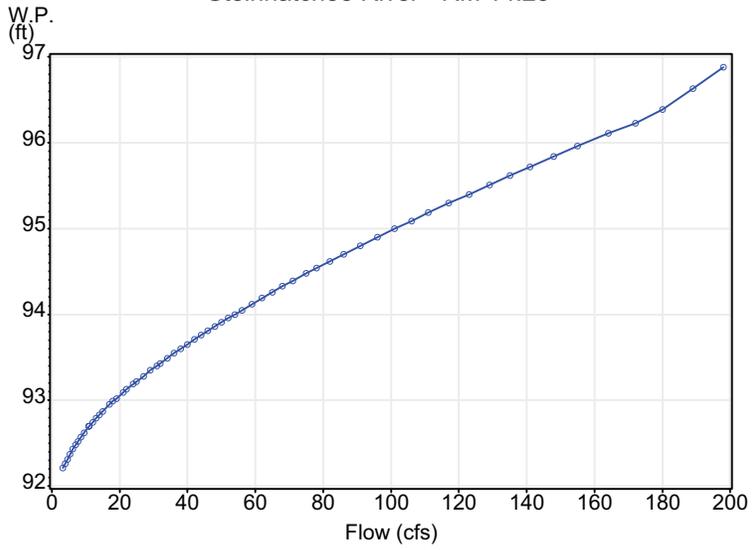
Steinhatchee River - RM 14.19



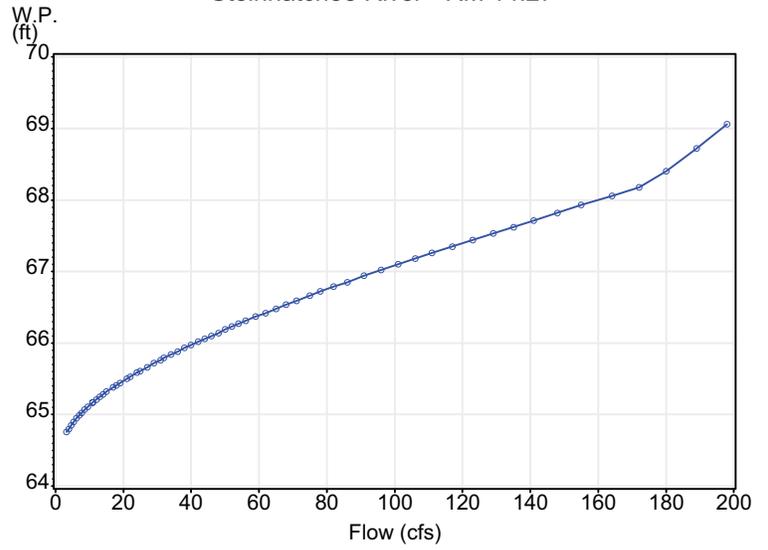
Steinhatchee River - RM 14.2



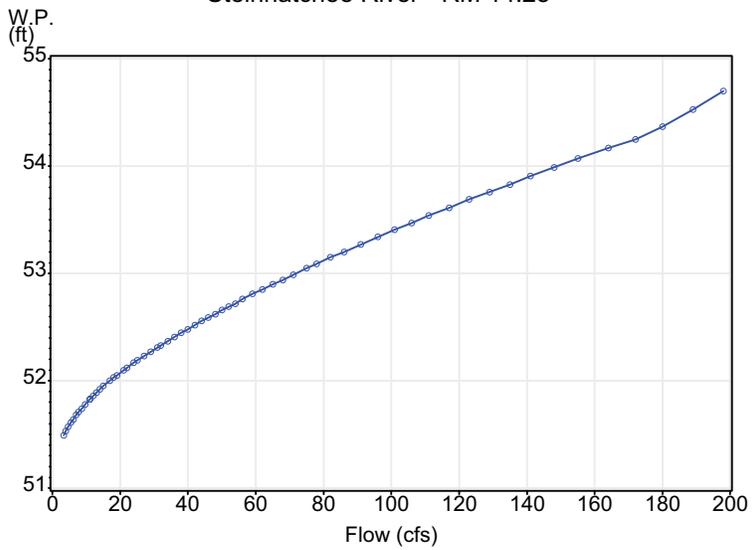
Steinhatchee River - RM 14.25



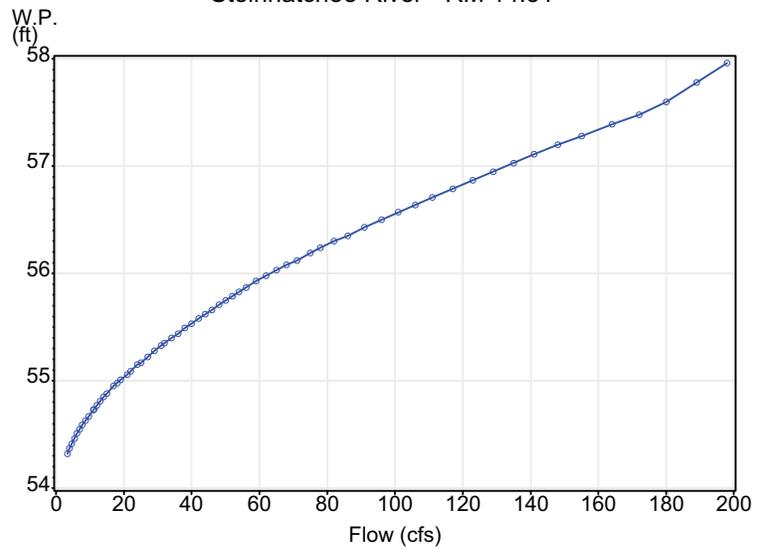
Steinhatchee River - RM 14.27



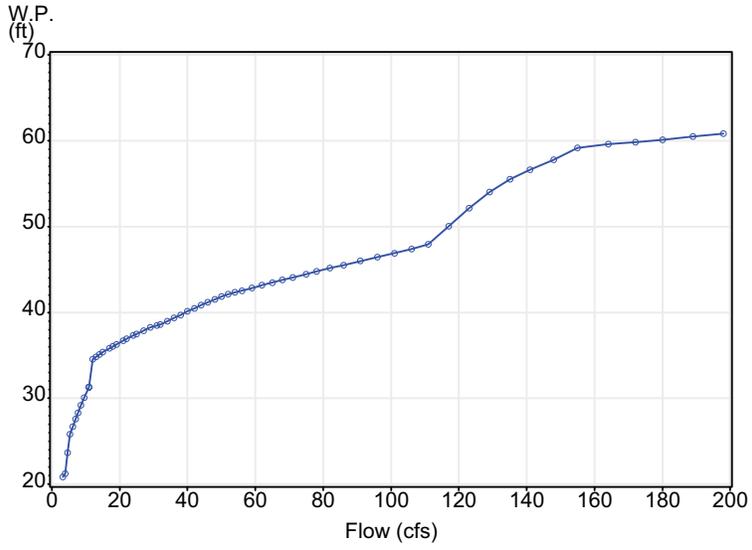
Steinhatchee River - RM 14.28



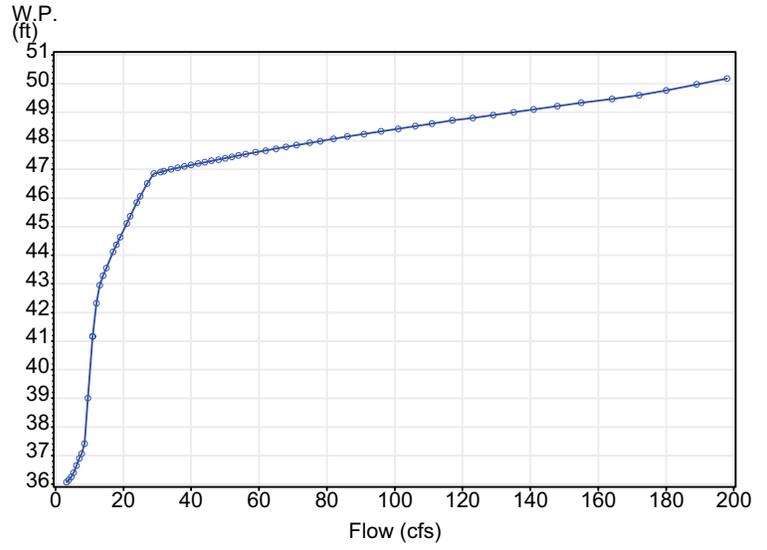
Steinhatchee River - RM 14.31



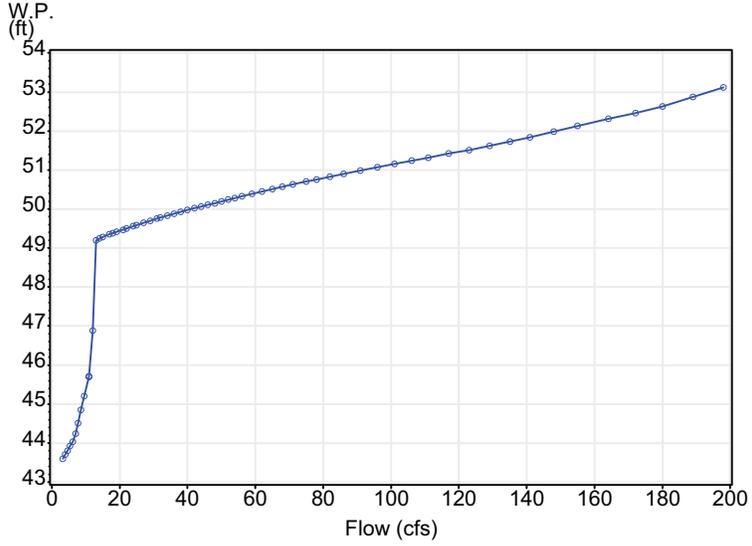
Steinhatchee River - RM 14.49



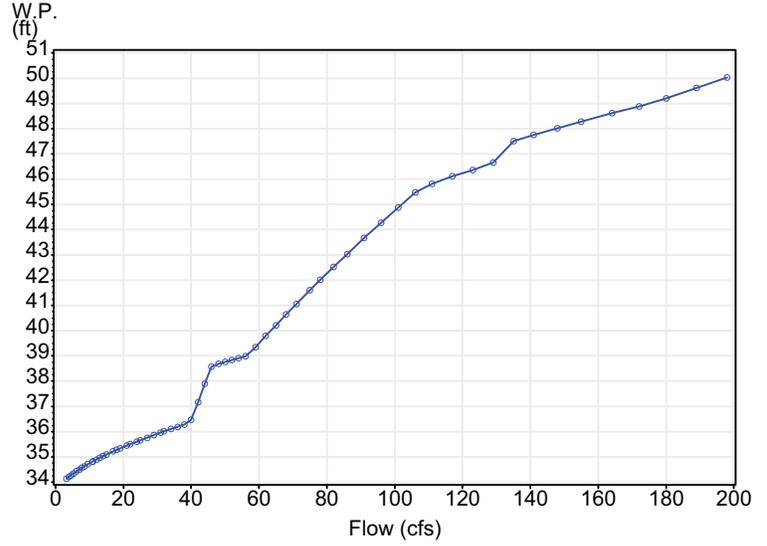
Steinhatchee River - RM 14.5



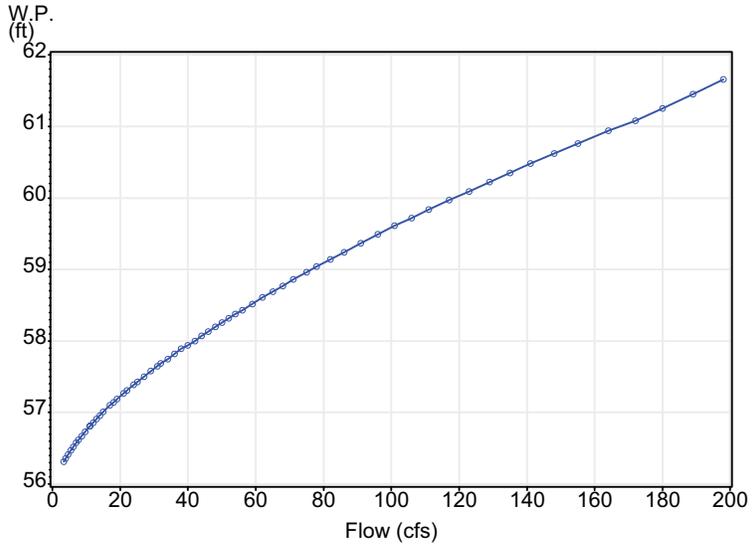
Steinhatchee River - RM 14.51



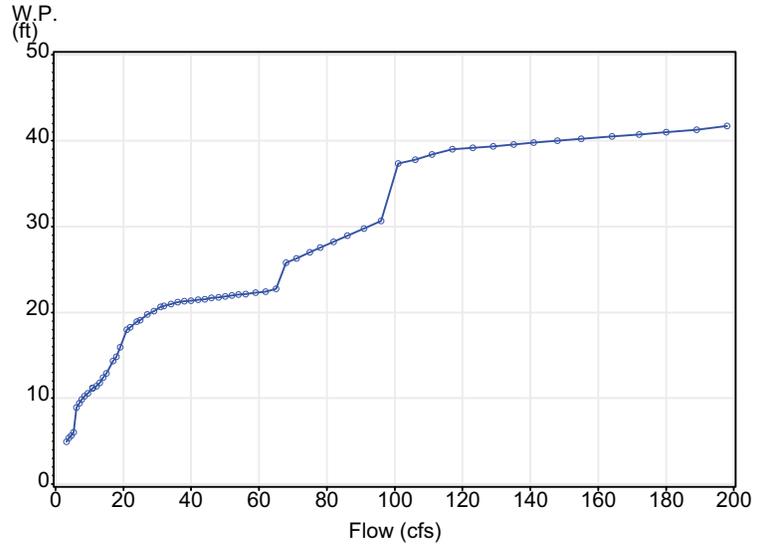
Steinhatchee River - RM 14.55



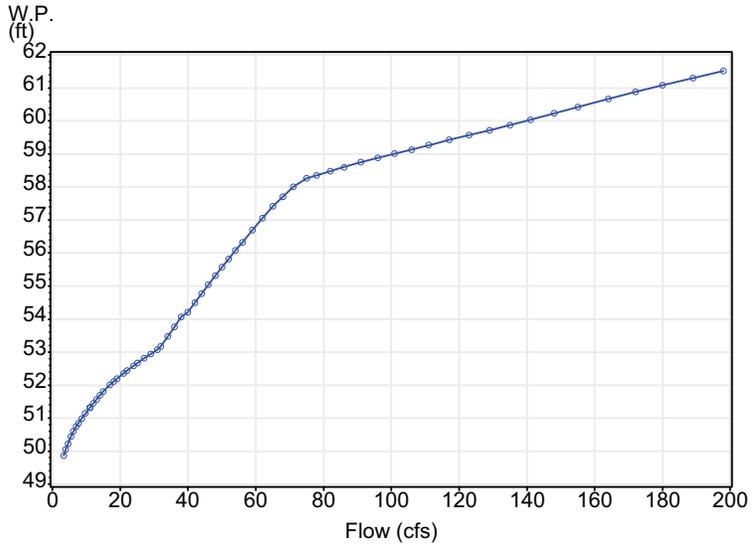
Steinhatchee River - RM 14.65



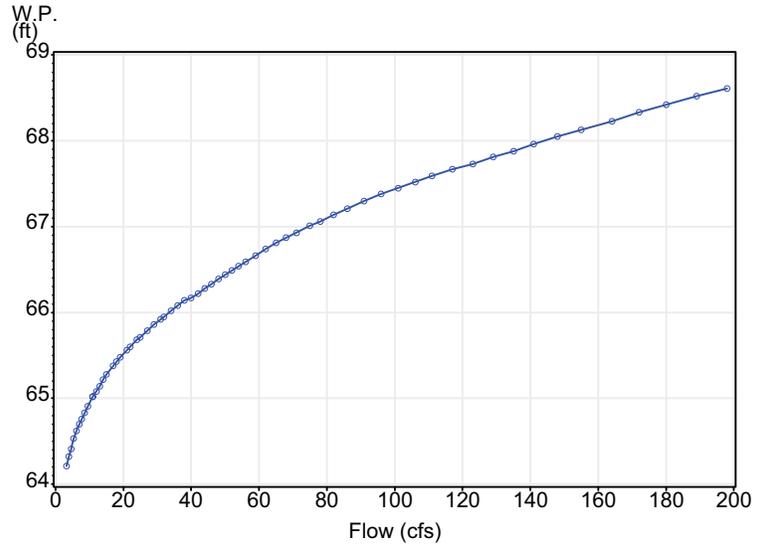
Steinhatchee River - RM 14.71



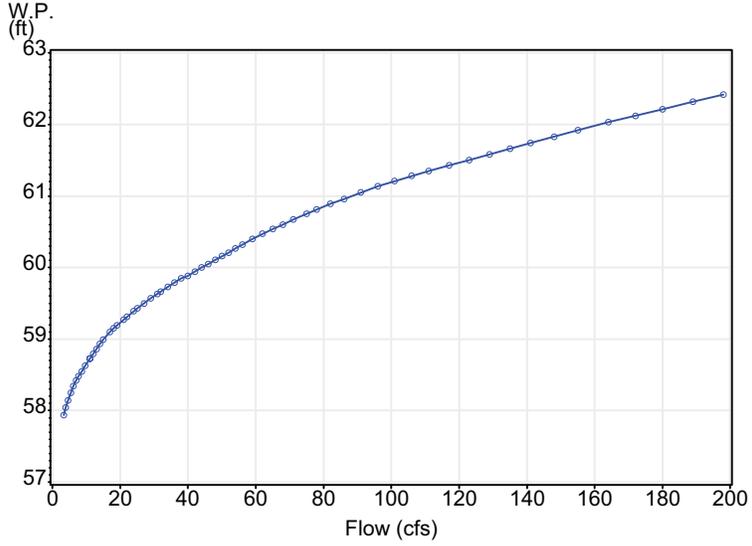
Steinhatchee River - RM 14.72



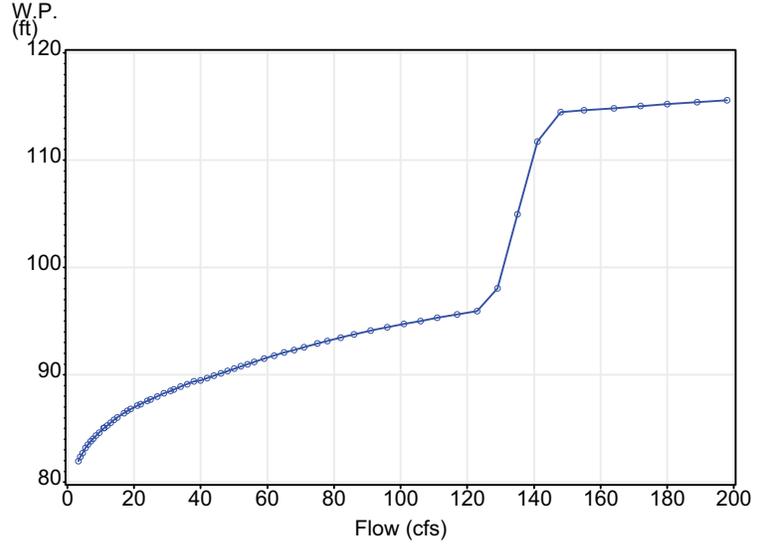
Steinhatchee River - RM 14.75



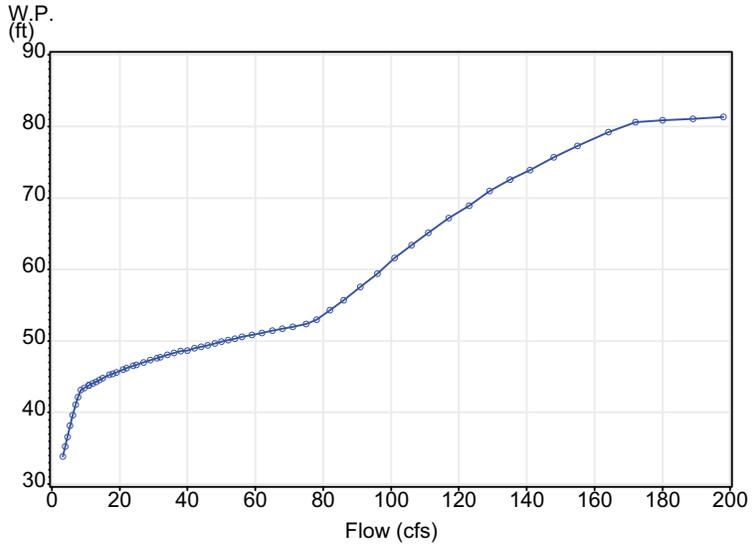
Steinhatchee River - RM 14.76



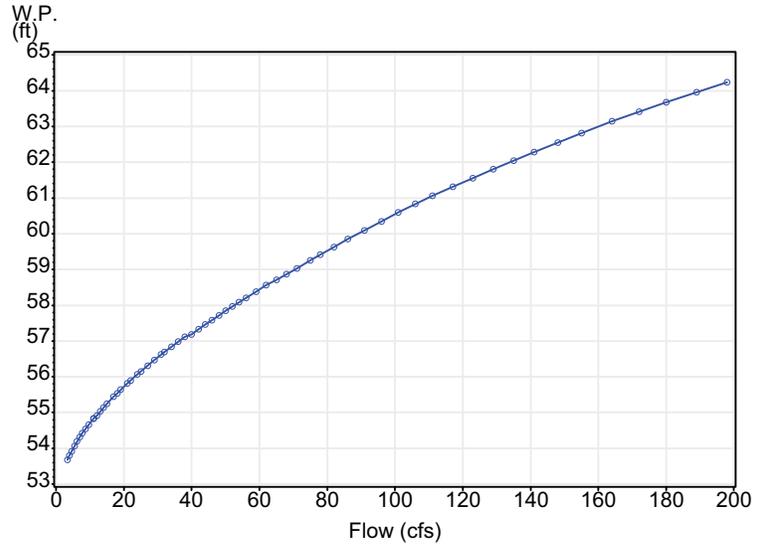
Steinhatchee River - RM 14.95



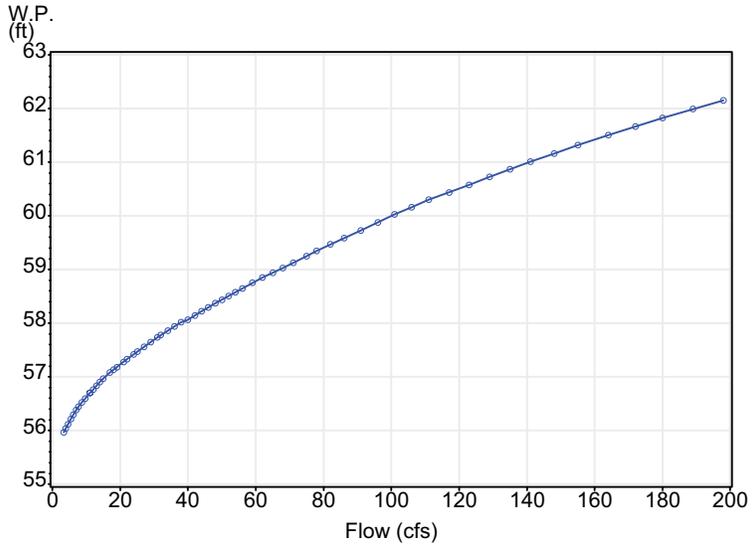
Steinhatchee River - RM 15



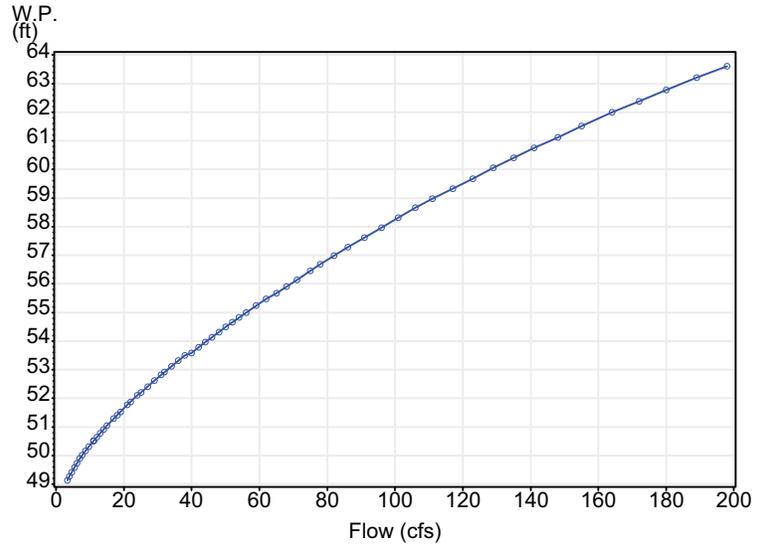
Steinhatchee River - RM 15.45



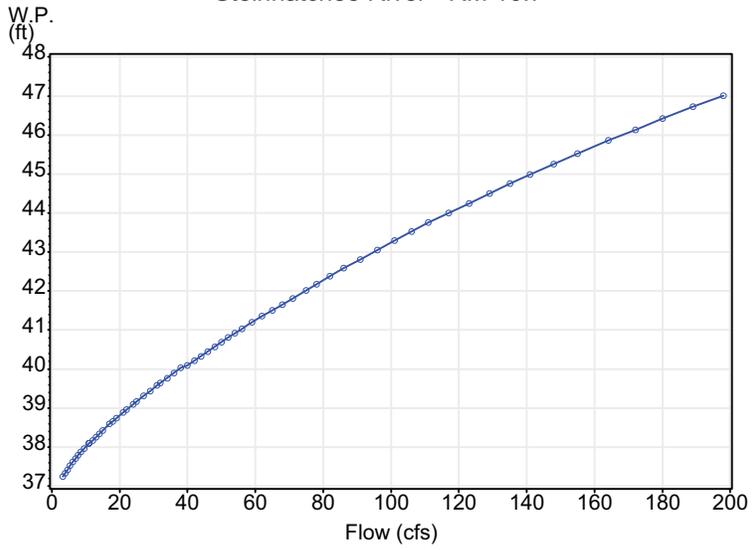
Steinhatchee River - RM 15.75



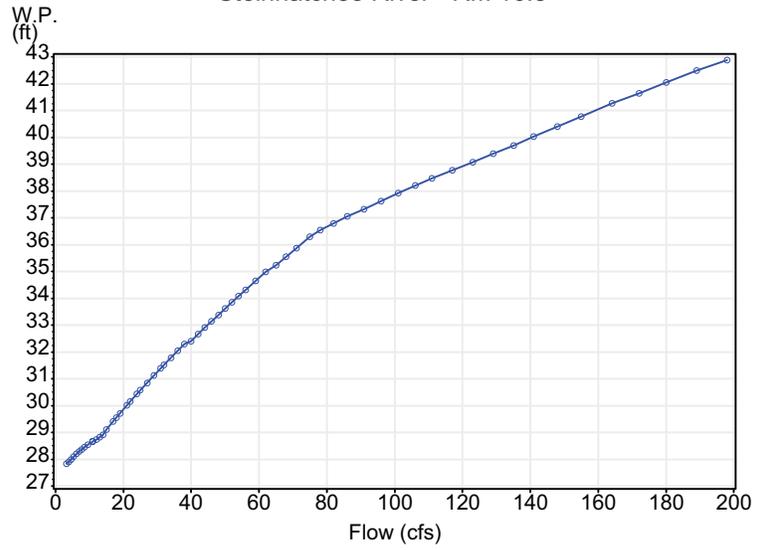
Steinhatchee River - RM 16.3



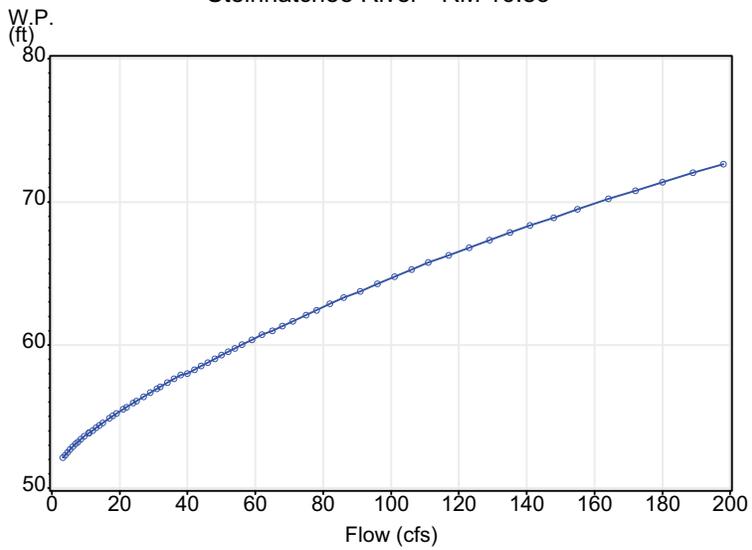
Steinhatchee River - RM 16.7



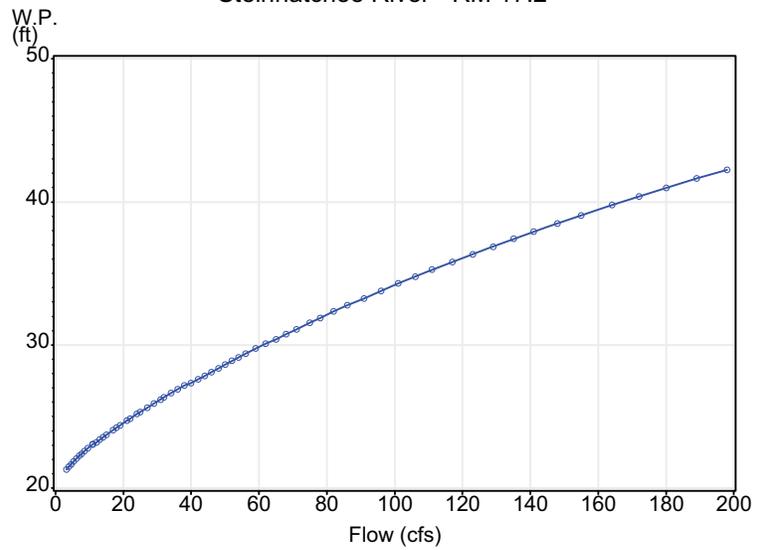
Steinhatchee River - RM 16.8



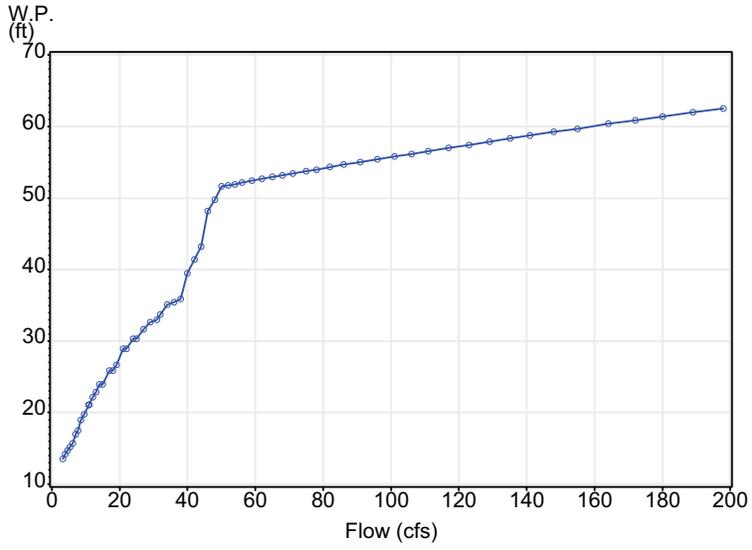
Steinhatchee River - RM 16.85



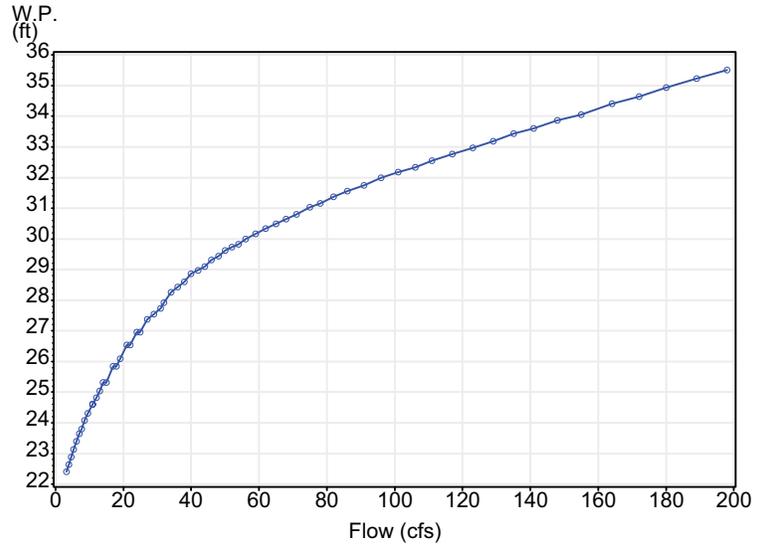
Steinhatchee River - RM 17.2



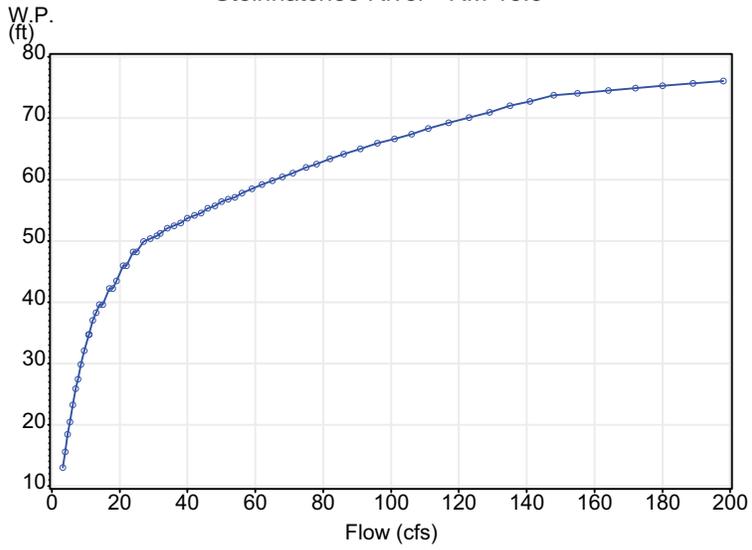
Steinhatchee River - RM 17.55



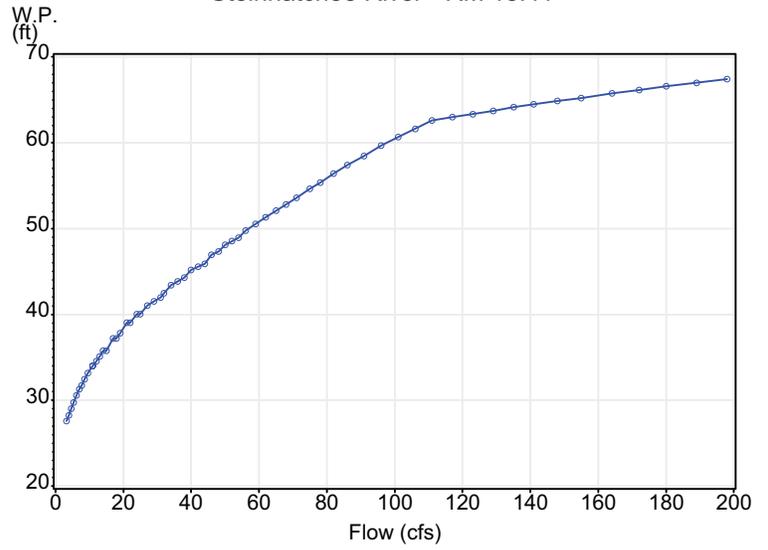
Steinhatchee River - RM 17.85



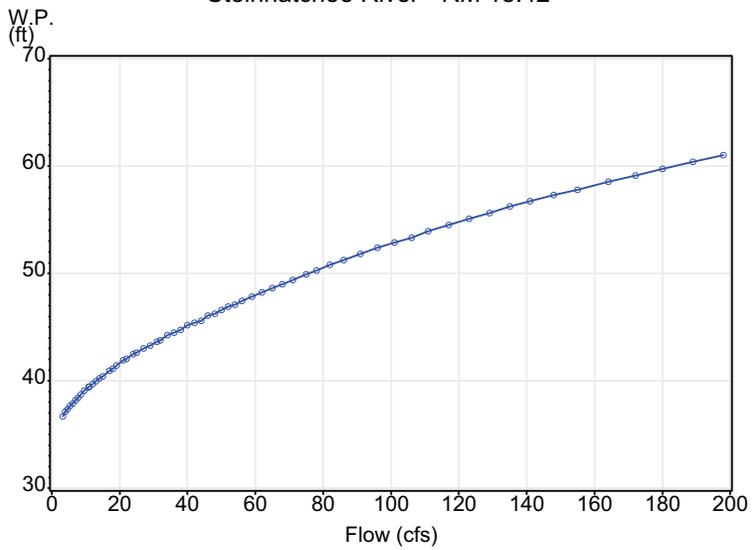
Steinhatchee River - RM 18.3



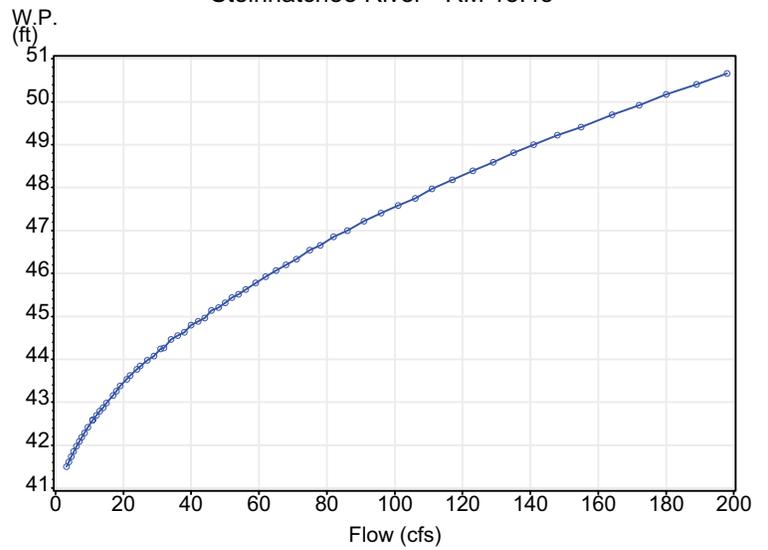
Steinhatchee River - RM 18.41



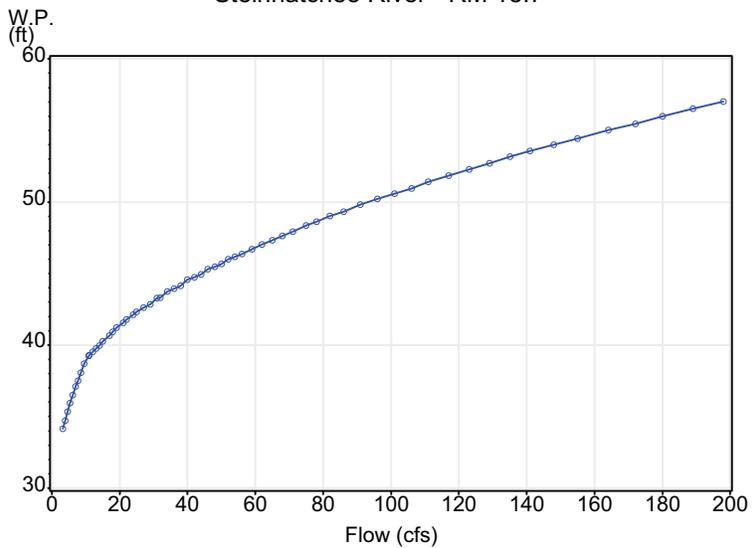
Steinhatchee River - RM 18.42



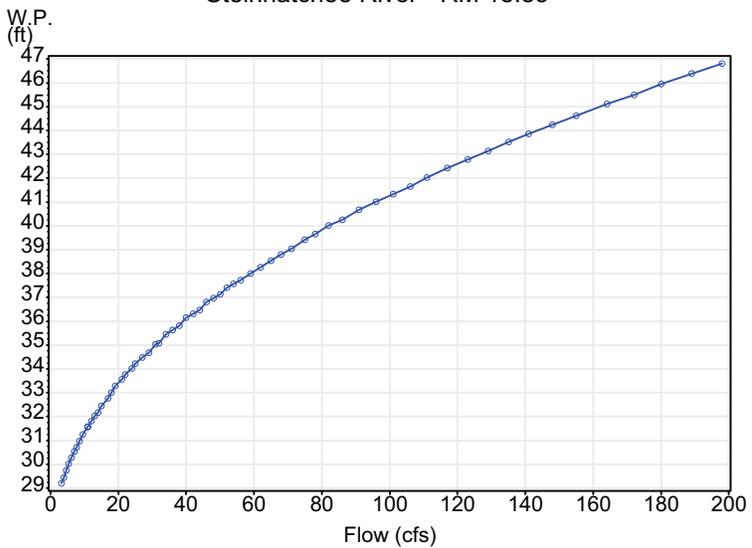
Steinhatchee River - RM 18.45



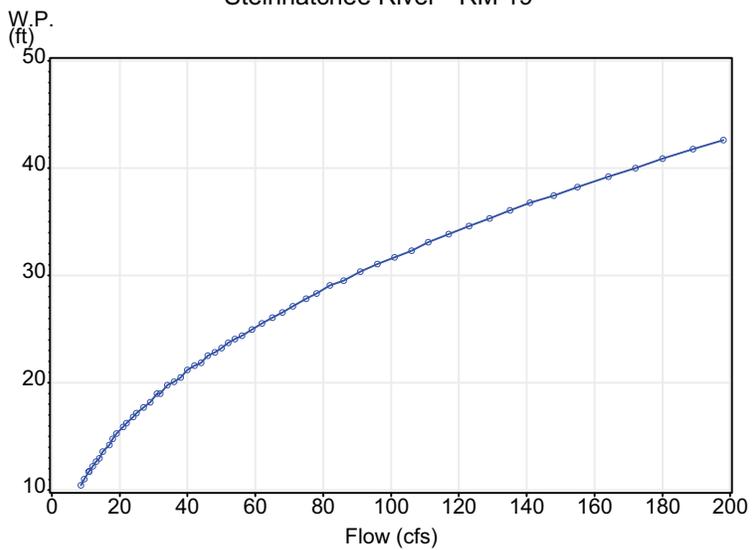
Steinhatchee River - RM 18.7



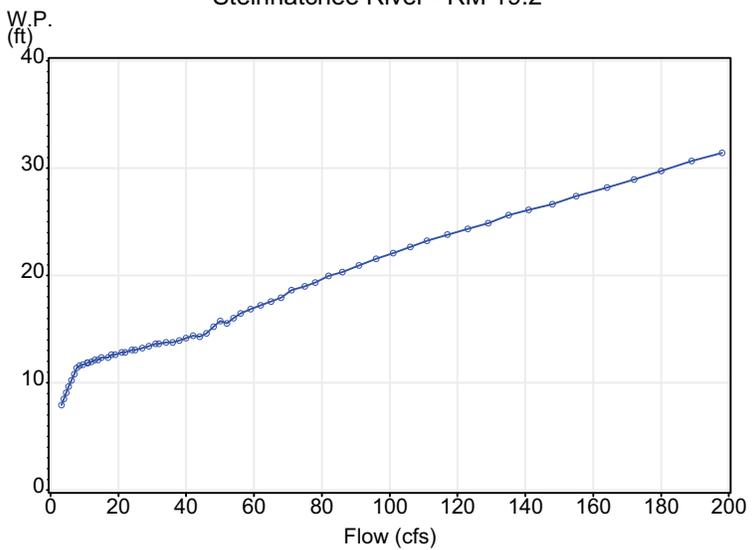
Steinhatchee River - RM 18.85



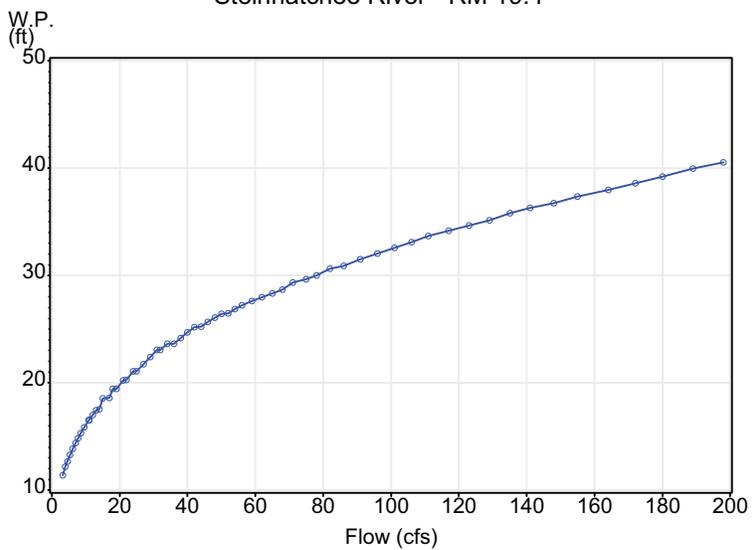
Steinhatchee River - RM 19



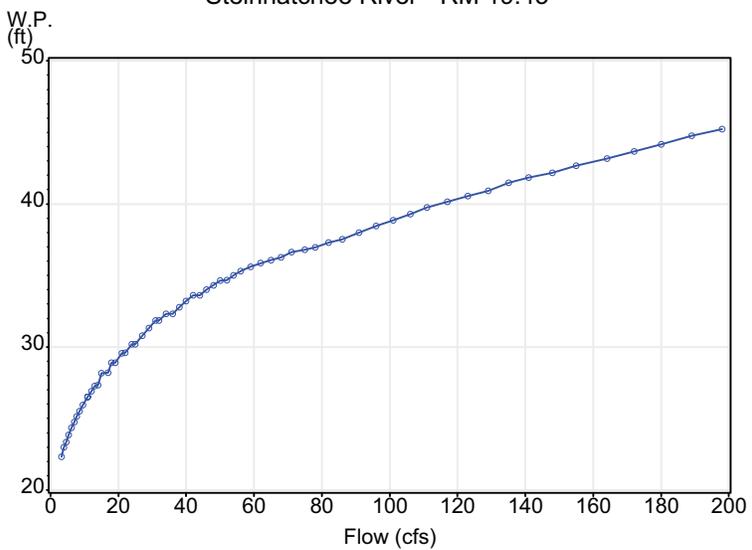
Steinhatchee River - RM 19.2



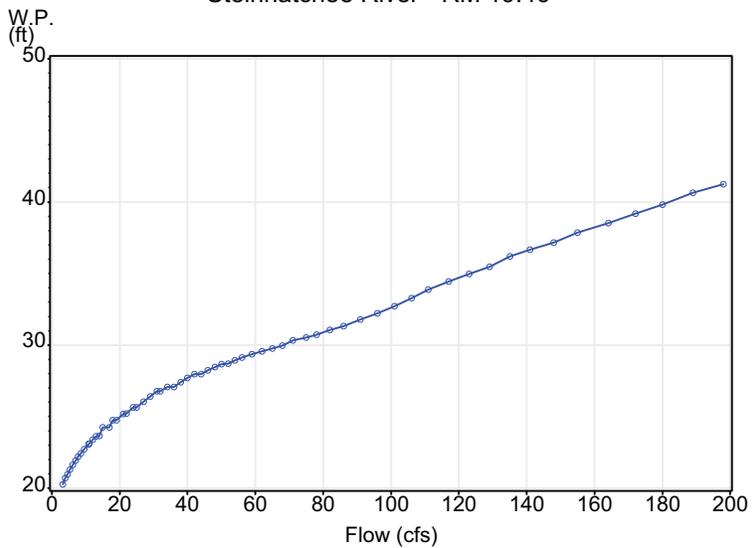
Steinhatchee River - RM 19.4



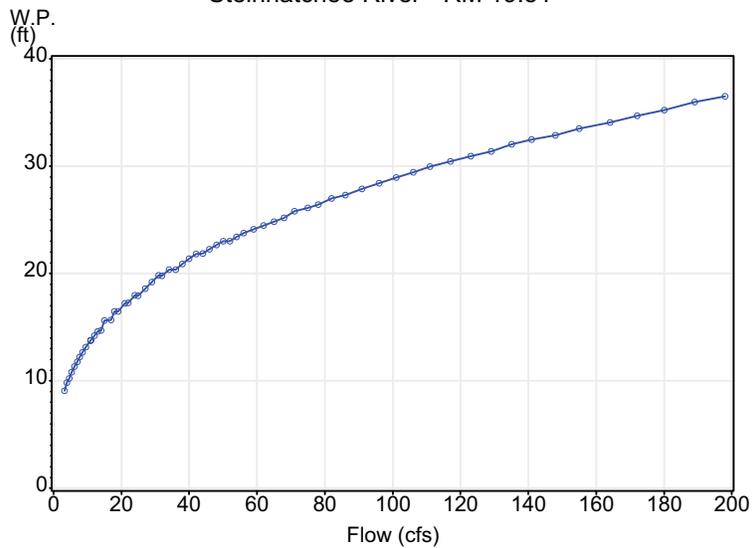
Steinhatchee River - RM 19.45



Steinhatchee River - RM 19.46



Steinhatchee River - RM 19.51



Steinhatchee River - RM 19.6

