

2006-2007 CEMETERY CREEK SMOLT TRAP DATA

A total of 3,986 fish were intercepted in the live trap between March 28th and June 7th, 2007. Coho salmon and Cutthroat trout dominated out-migration, with numbers totaling 600 Cutthroat and 1,740 Coho.

Other fish species caught in the trap included:

- Rainbow/steelhead trout
- Three-spine stickleback
- Lamprey
- Sculpin
- Red-sided shiners
- Crayfish

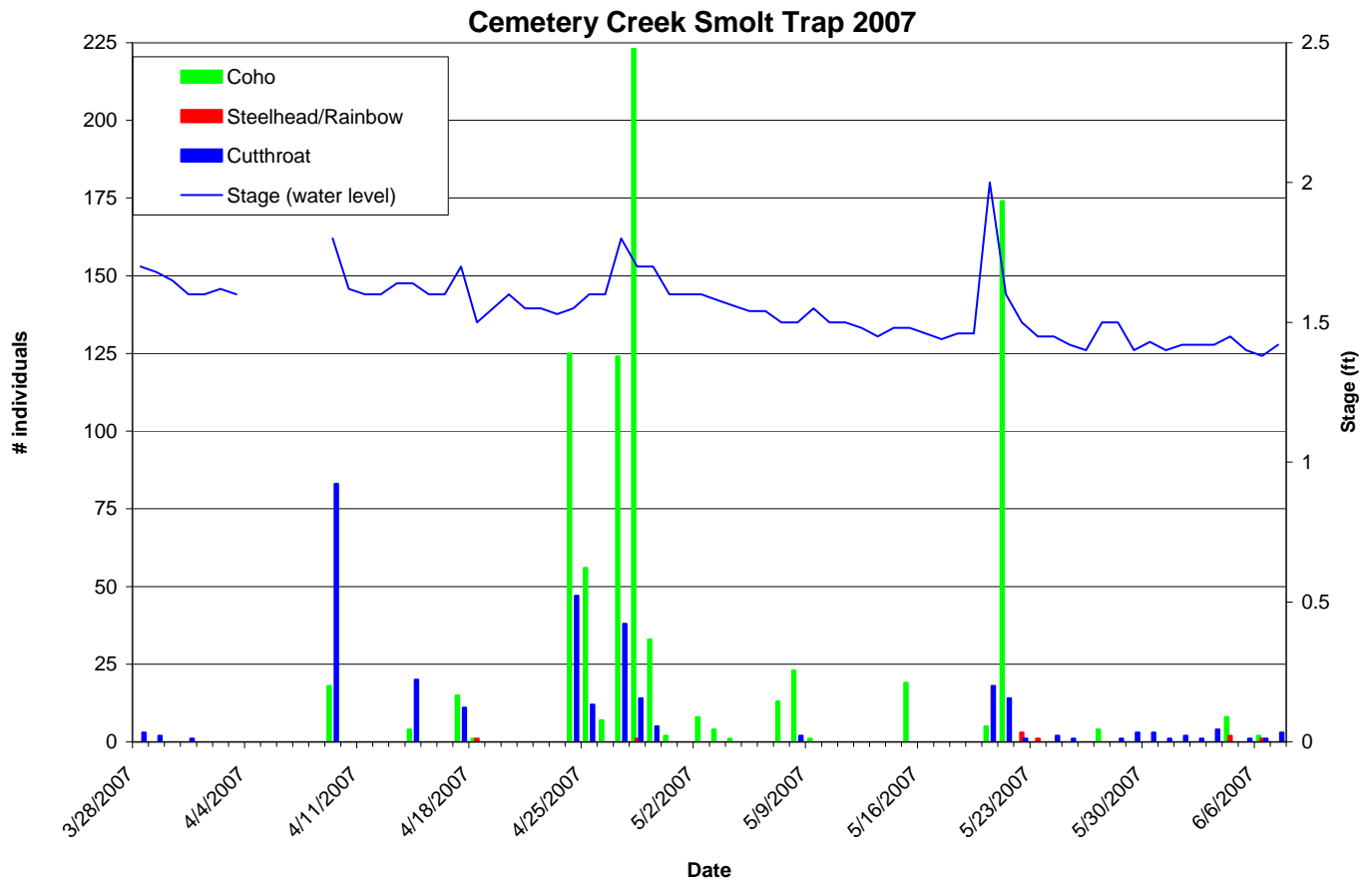
Non-native species included:

- Small-mouth bass
- Goldfish

Table 1 shows the total number of individuals caught during the 2006-2007 Cemetery Creek smolt trap. Note the high number of Coho and Cutthroat species, along with the non-native Small-mouth bass and Goldfish/Carp.

Table 1. Total fish captured during 2006-2007 Cemetery Creek smolt trapping season, by species.

Species	No. of Individuals
Coho	1740
Unknown- mostly Coho	1420
Cutthroat	600
Salmonid spp.	120
Steelhead/ Rainbow	18
Lamprey	18
Three Spine Stickleback	16
Carp/Goldfish	16
Crayfish	14
Sculpin	12
Unknown (fry)	6
Red Sided Shiner	2
Chinook	2
Largemouth Bass	2



Most species showed an increased out-migration when rain events occurred. Out-migration is usually seen as a bell shaped curve from the peak rain, indicating gradual out-migration over time. The smolt out-migration in Cemetery creek appears to follow this trend.

This trend is based on the fact that salmonids have adapted to using high flow events during rain as an energy saving means of downstream movement. Increased impervious surface (from roads and pavement) combined with loss of habitat may essentially “flush” smolt down the system too early.