Capturing Adults

Tagged female adult chum salmon

Resistance-board weir

- Experimental tangle nets were used to capture adults in the mainstem Columbia R.
- Resistance-board and picket weirs trapped adults as they entered the streams
- Adult population was estimated by using spawning ground survey information and Area-Under-the-Curve

Population Estimates				
	1997	1998	1999	2000
Hardy Creek	177	729	418	NA
Hamilton Springs	NA	NA	318	NA

Number of adults sampled per year				
	Hardy Creek		Hamilton Springs	
Year	Females	Males	Females	Males
1997	55	102	NA	NA
1998	203	233	NA	NA
1999	48	44	50	154
2000	12	20	26	104

Radio Telemetry

Radio tag

- Adults moved among the three spawning areas
- Movements were most common in years having high adult returns

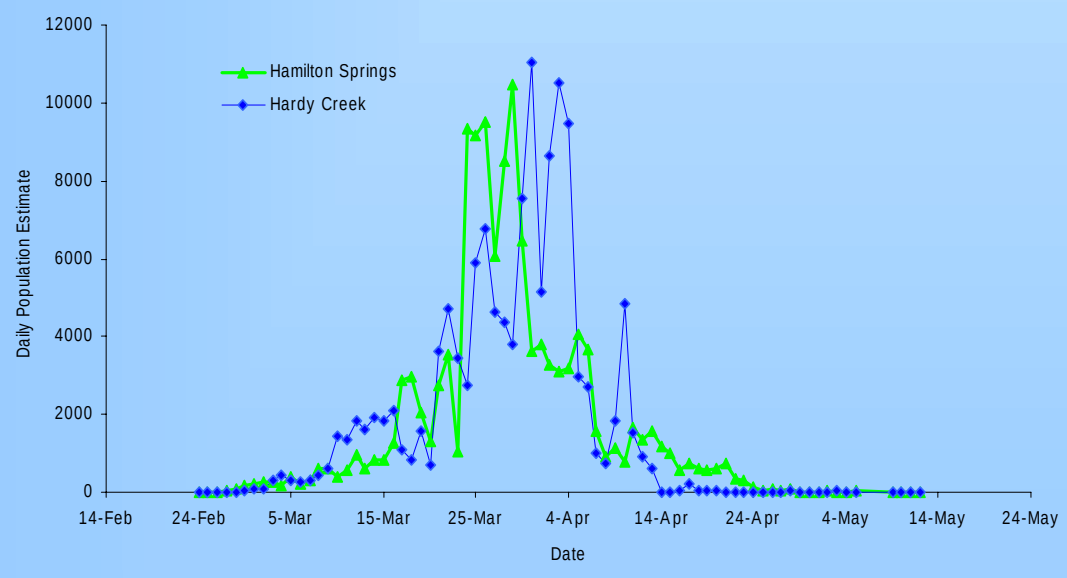
Aerial receiver site

Outmigrants

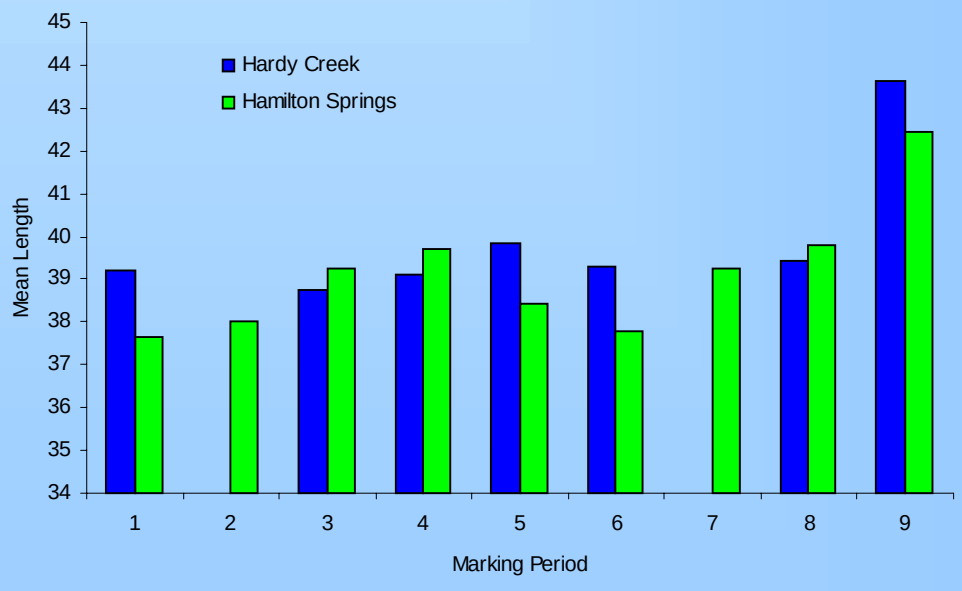
Hardy Creek fyke net

Chum salmon smolt

- Outmigrant chum were collected by floating fyke nets
- Population estimates calculated using mark/recapture methods
- Daily population estimates showed a similar pattern between sites
- Differing mean lengths over smolt marking periods suggest residence time in each stream



Daily population estimates for smolts in Hamilton Springs and Hardy Creek, 2000



Smolt mean length per marking period for Hamilton Springs and Hardy Creek, 2000