



Bridge Scour Programs – Washington, Oregon, Arizona

River and channel surveys were conducted for geometric input to bridge hydraulics using either WSPRO, or a modification of the U.S. Army Corps of Engineers' HEC-2 code or HEC-RAS. WEST Consultants modified HEC-2 specifically for bridge scour applications to provide hydraulic output as conveyance segments in a form that acts as input needed for calculation of contraction and pier scour. Contraction and pier scour are then computed internally in HEC-2 using FHWA HEC-18 Procedures. For cases in which WSPRO was required, a separate spreadsheet computation was made for pier and contraction scour.

Over 1500 bridges were surveyed and evaluated in the three states for these studies.

Project Owners:

*USDA Forest Service – Portland
333 SW First Avenue
Portland, OR 97208
Contact: Kathy Van Hecke
(503) 808-2829*

*Washington DOT
Bridge & Structures Office
P.O. Box 47340
Olympia, WA 98504
Contact: Frank Higgins
(360) 705-7205*

*Oregon DOT
355 Capitol St NE Room 300
Salem, OR 97301
Contact: Ron Reisdorf
(503) 986-3382*

Completion Date: 2000

