



Willamette case study *Columbia River Basin*

Case Study – Willamette River, Oregon

- USACE operates 13 dams that control the volume and timing of water flowing in the river.
- Dams affect flow in approximately 40% of the basin.
- Developing recommendations for Middle Fork, Coast Fork, and Mackenzie Rivers

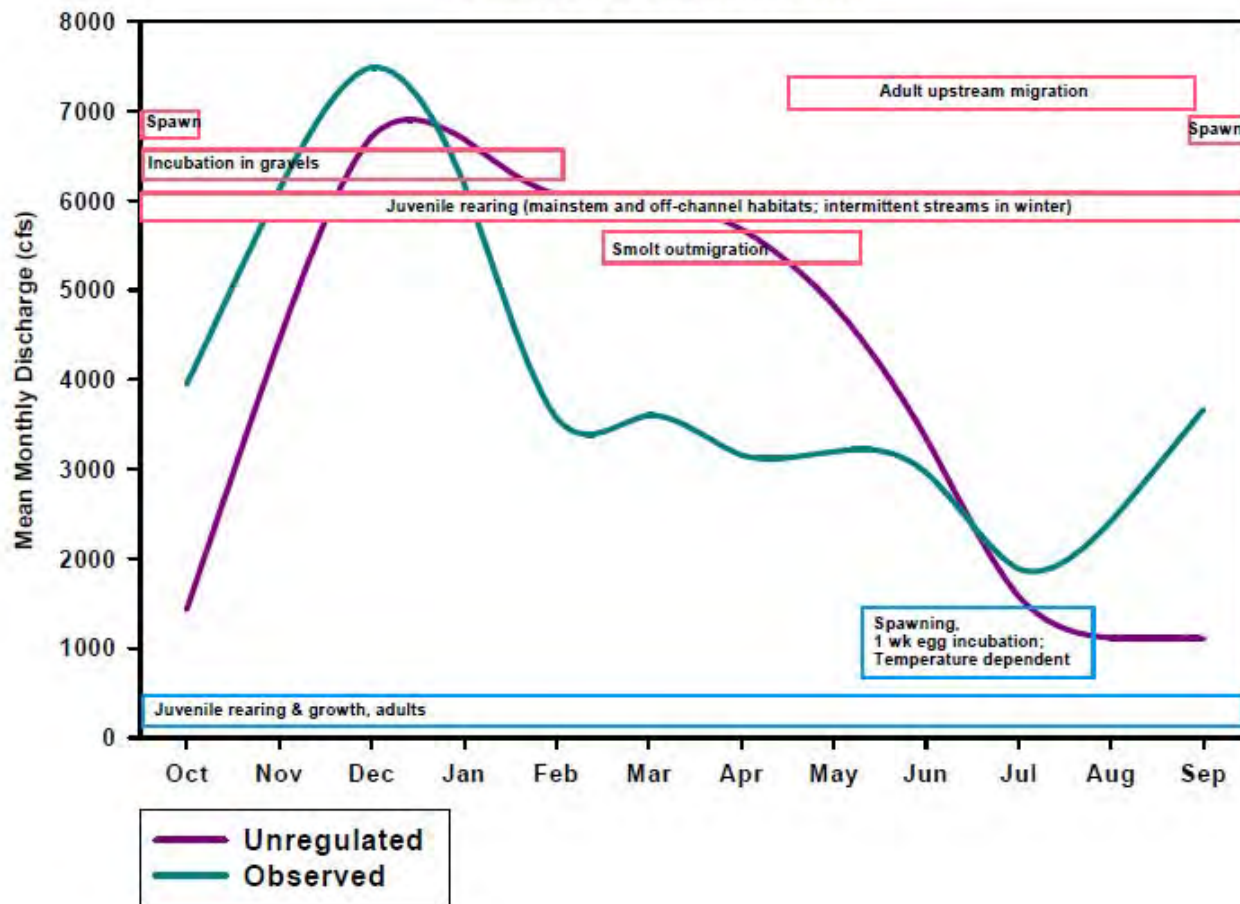


Willamette River – Flow Requirements

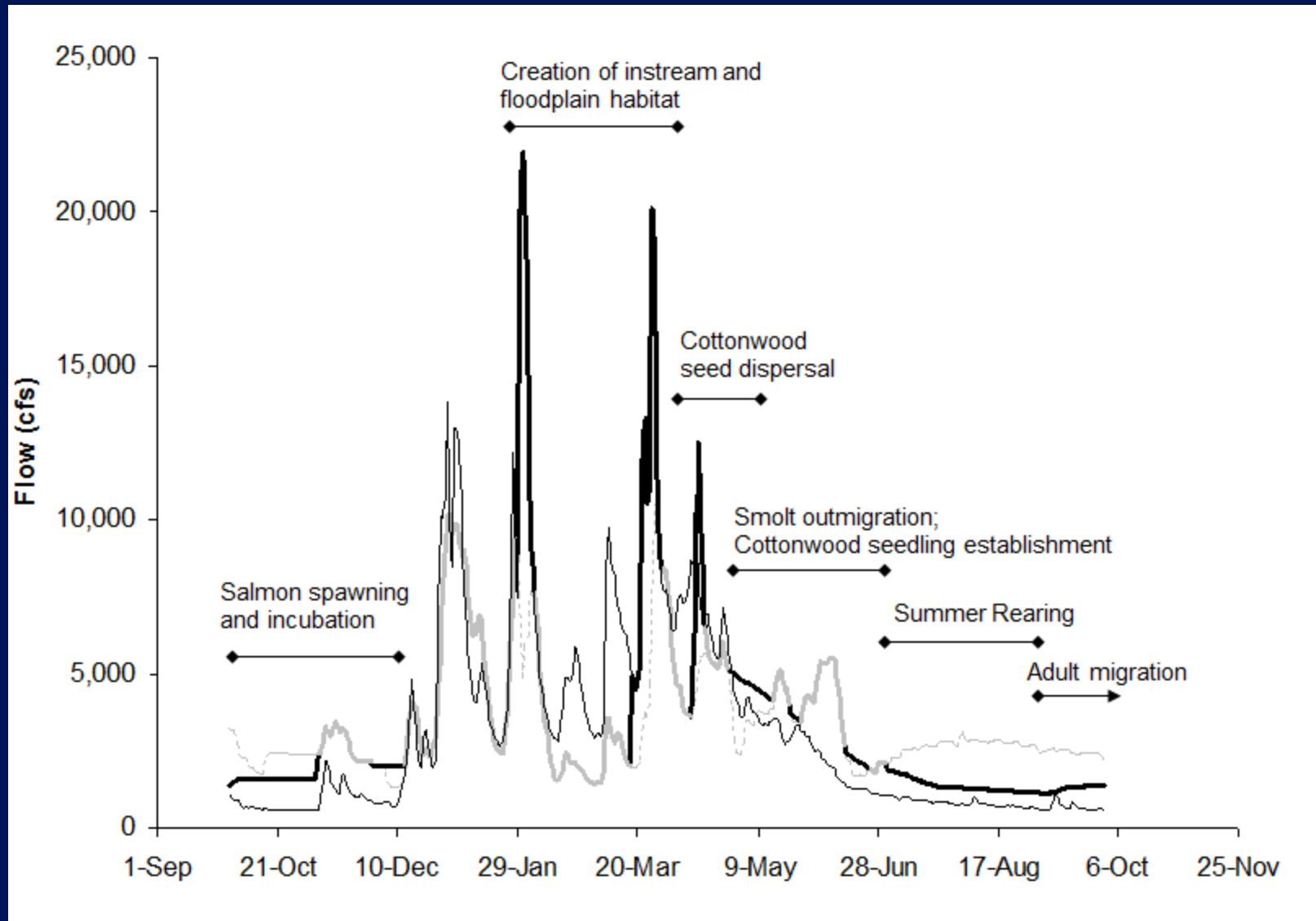
Spring Chinook (*Oncorhynchus tshawytscha*), Middle Fork run

Oregon Chub (*Oregonichthys crameri*)

Middle Fork at Jasper, 1971-1994

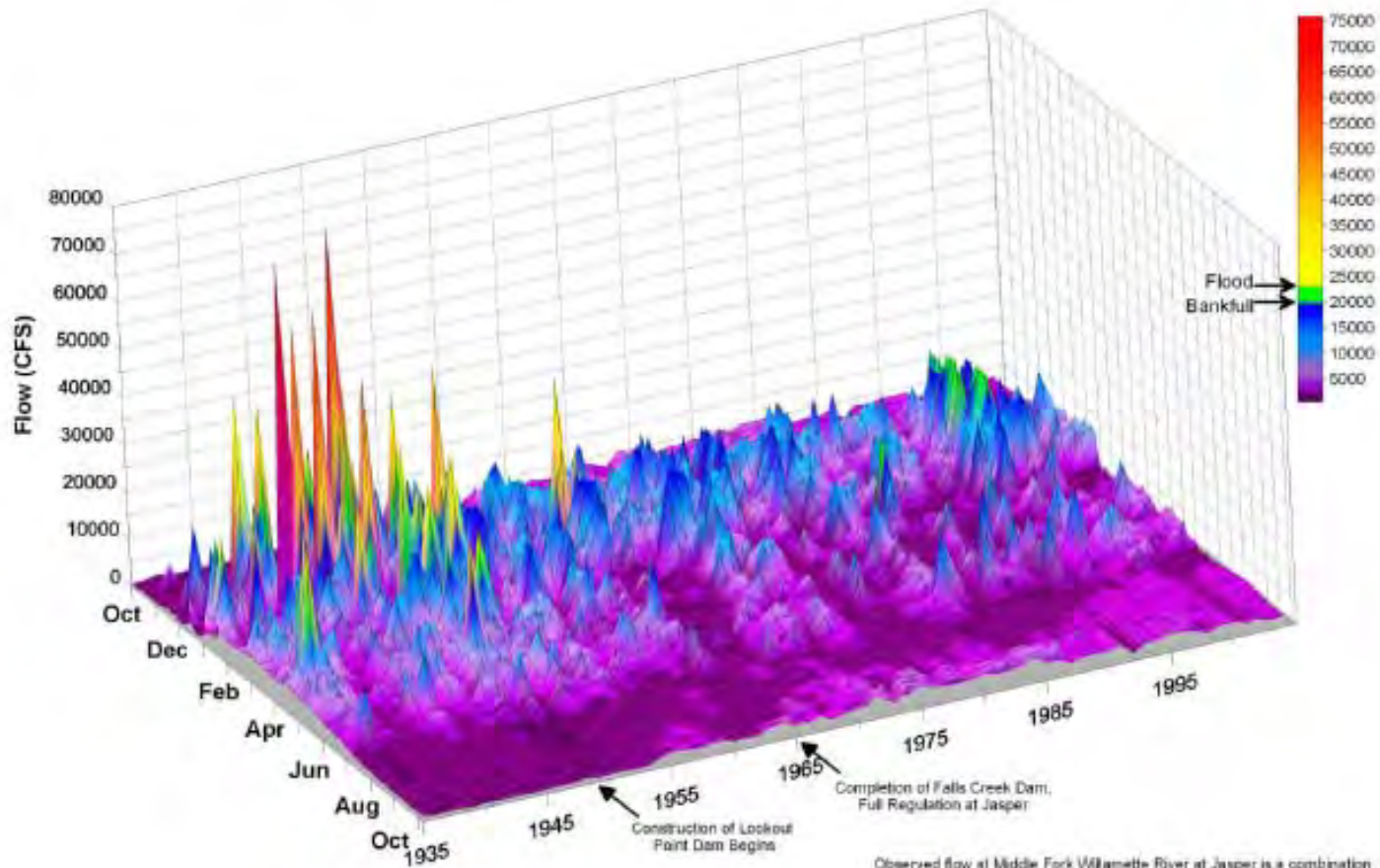


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Observed Flow at Middle Fork Willamette River at Jasper, OR



Observed flow at Middle Fork Willamette River at Jasper is a combination of calculated estimates of discharge (1935-1951) and data collected at USGS station 14152000, Middle Fork Willamette River at Jasper, OR (1952-2004).