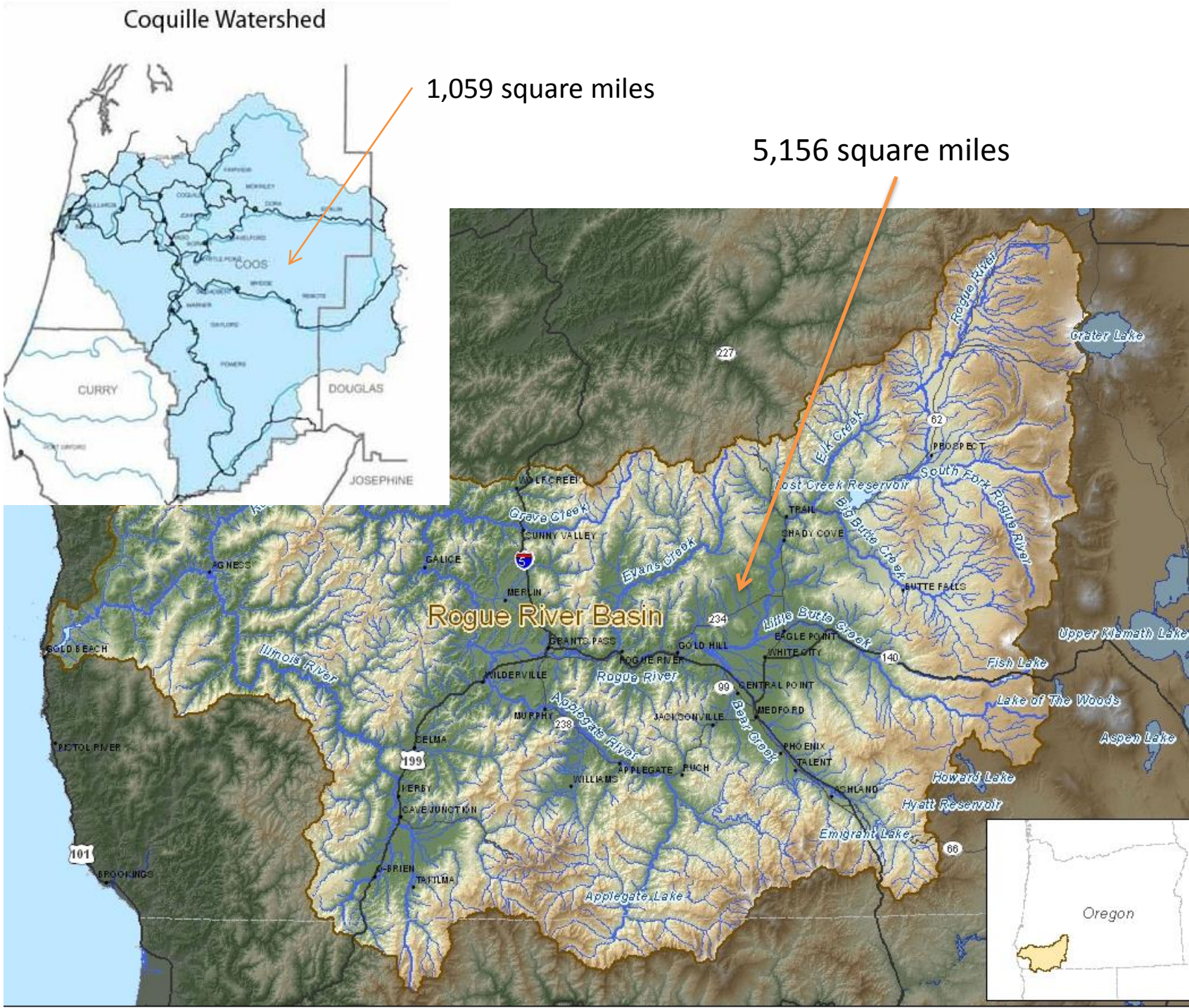

Oregon State
UNIVERSITY
OSU

ECONorthwest study 2009

- Value of Rogue River Salmon
  - $1.4 million annually from commercial fishing
  - $16 million annually from sport fishing
  - $1.5 billion annually associated with non-use values
- Recreation economy on the Rogue River
  - $30 million in total economic output
    - $15.4 million in personal income
    - 445 full- or part-time jobs


Coquille Watershed
1,059 square miles
5,156 square miles
COOS
CURRY
DOUGLAS
JOSEPHINE
Rogue River Basin
Rogue River
Crater Lake
Lost Creek Reservoir
South Fork Rogue River
Elk Creek
Big Butte Creek
Grave Creek
Evans Creek
Little Butte Creek
Illinois River
Applegate River
Bear Creek
Upper Klamath Lake
Fish Lake
Lake of The Woods
Aspen Lake
Howard Lake
Hyatt Reservoir
Emigrant Lake
Applegate Lake
PROSPECT
TRAIL
SHADY COVE
BUTTE FALLS
WOLF CREEK
SUNNY VALLEY
MERLIN
GALICE
AGNESS
GOLD BEACH
GRANTS PASS
GOLD HILL
EAGLE POINT
WHITE CITY
ROGUE RIVER
WILDERVILLE
CENTRAL POINT
MEDFORD
JACKSONVILLE
MURPHY
CELMA
PHOENIX
TALENT
ASHLAND
APPLEGATE
WILLIAMS
PISTOL RIVER
HERBY
CAVE JUNCTION
BROOKINGS
O'BRIEN
TAFFLMA
227
62
234
140
99
238
199
101
66
Oregon

Estuary Comparison

- Coquille River:
  - Head of Tide: 41 miles
  - Extent of saltwater intrusion: 20 miles
- Rogue River
  - Head of Tide 4.5 miles
  - Extent of saltwater intrusion: 1.5-2.5 miles

Oregon State UNIVERSITY OSU

"…in the Rogue River, juvenile spring Chinook salmon follow eight life history pathways including extensive rearing in the lower river or estuary during the summer months…"

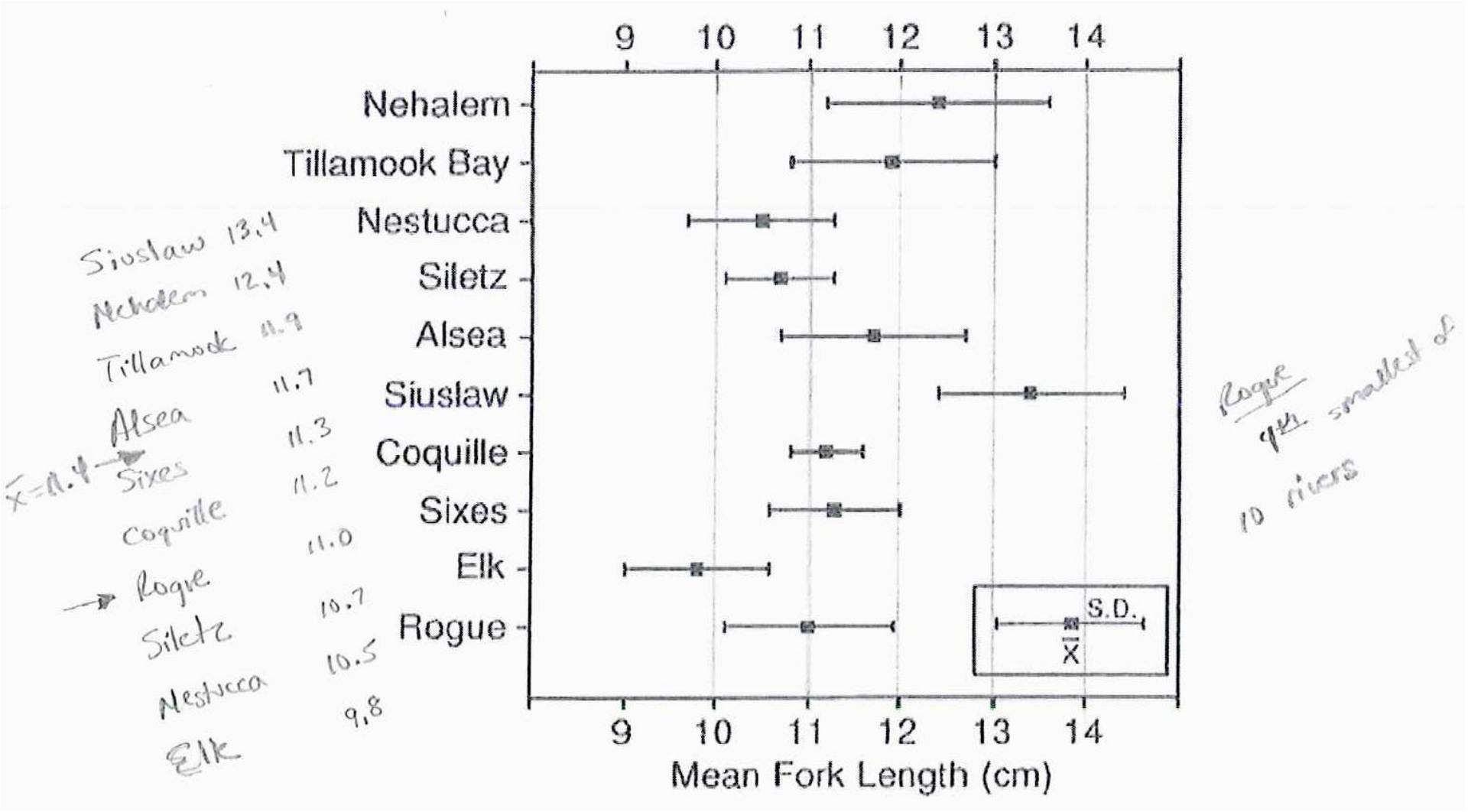
Mark Schluchter and James Lichatowich, 1977

Oregon State UNIVERSITY OSU

"We believe that the evidence supports a hypothesis that optimum survival is achieved by juvenile chinook salmon that enter the ocean in late summer or early fall at a relatively large size." …and "*we conclude that extended estuarine rearing must provide a survival advantage*."

Nicholas and Hankin, 1989

Oregon State UNIVERSITY OSU



From: Chinook Salmon Populations in Oregon Coastal River Basins: Description of Life Histories and Assessment of Recent Trends in Run Strengths by J.W. Nicholas and D.G. Hankin. 1989

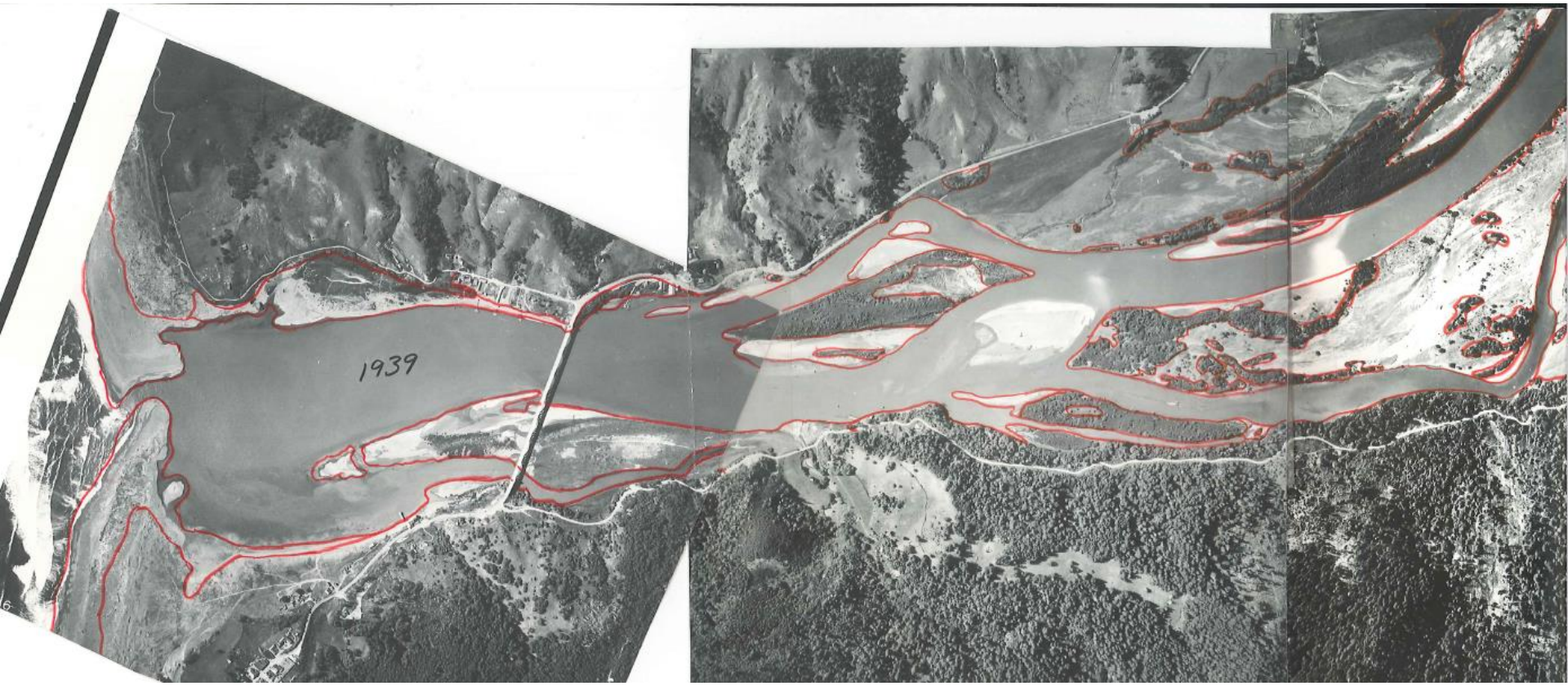
"A comparison of 1945 and 1975 adult fish scales from the Rogue River indicate that juvenile spring and fall Chinook spend much less time rearing in the estuary than they did 20 years ago. These data suggests that physical and hydrologic modifications in the Rogue River estuary discussed previously may have had substantial impacts on Chinook populations in the river."

Timchak, K.L. and C.R. Myers. 2015

A Brief History of the Rogue River

	Completed	Removed
Gold Ray Dam	1904	2010
Gold Hill Diversion Dam	1904	2008
Savage Rapids Dam	1921	2009
Patterson Bridge	1932	
Rogue River Jetties	1960	
Boat basin training jetty	1973	
Lost Creek Dam (13%)	1977	
Applegate Dam (29%)	1980	
Elk Creek Dam	1987	2008
Rogue River Estuary Walk	2008	

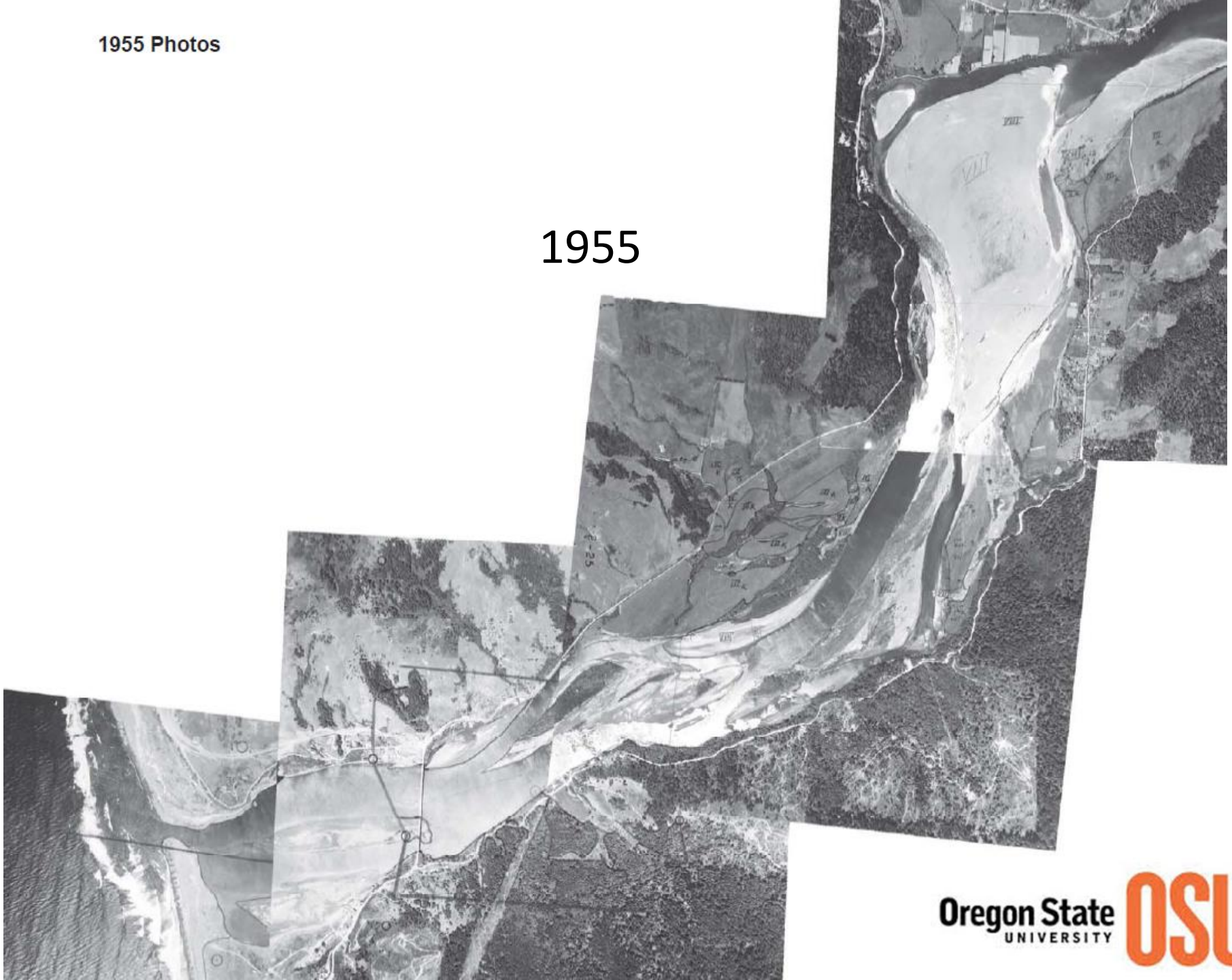
1939



Oregon State UNIVERSITY OSU

1955 Photos

1955

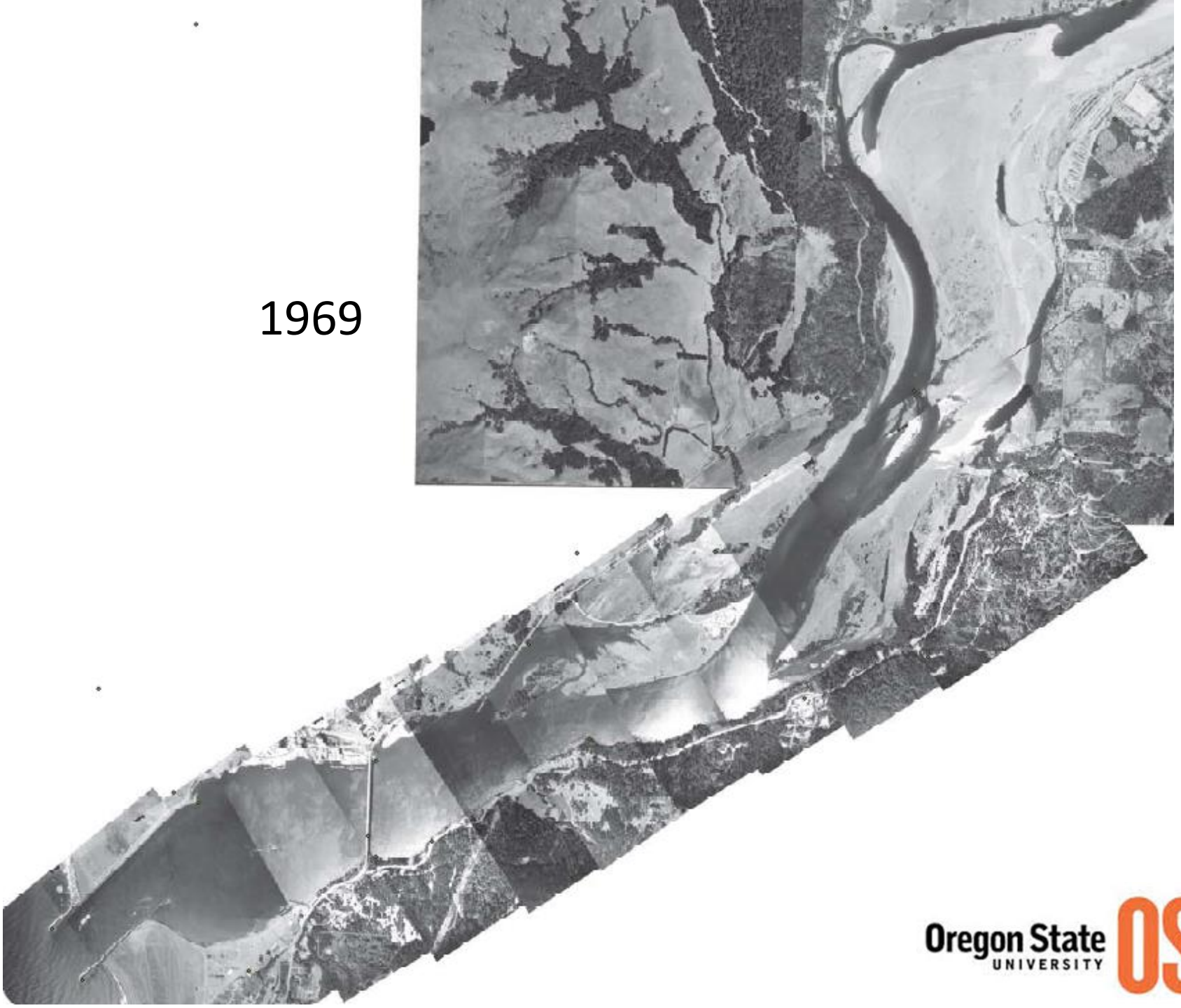


Oregon State UNIVERSITY OSU

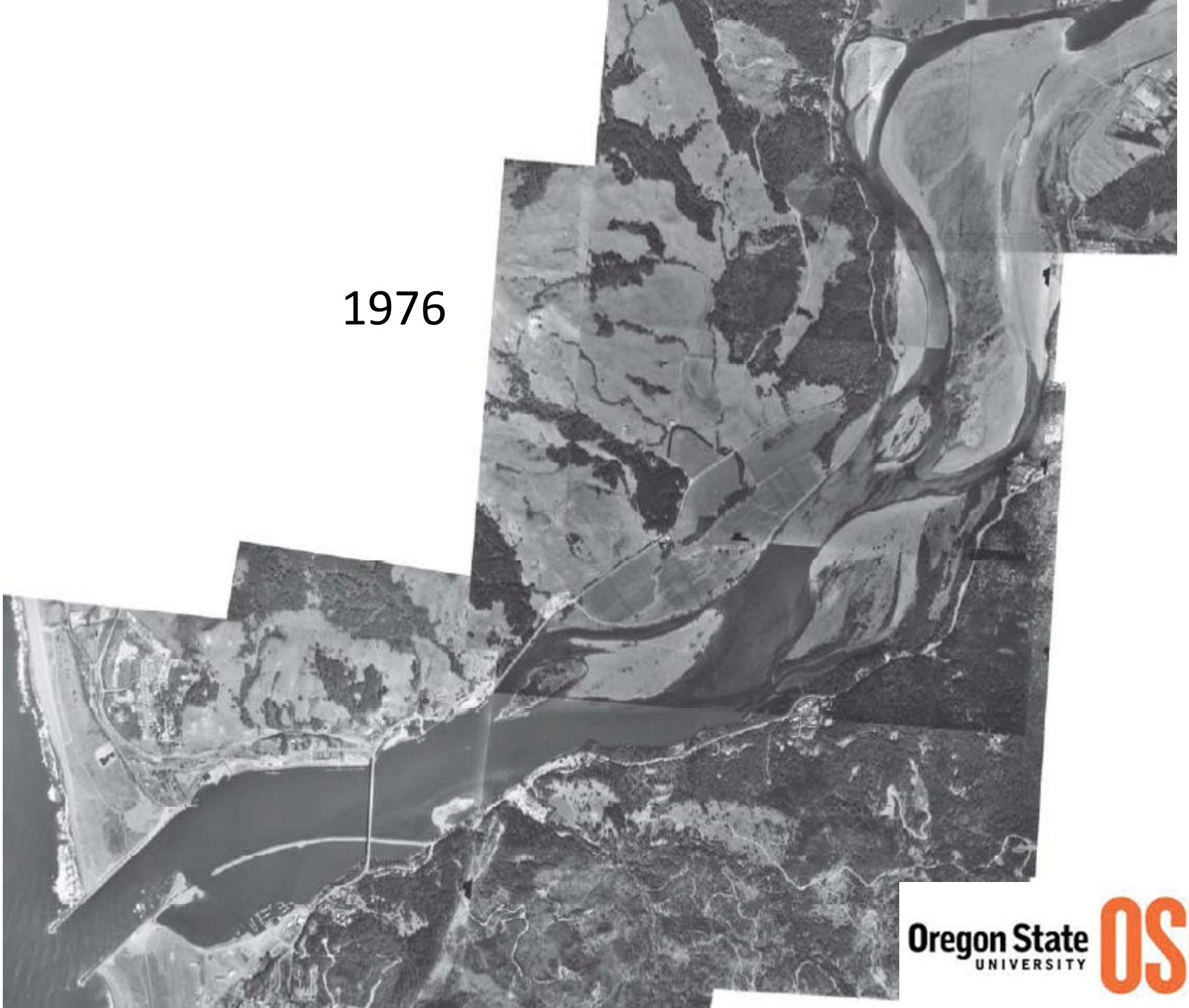
1962

Oregon State UNIVERSITY OSU

1969



Oregon State UNIVERSITY OSU



Oregon State UNIVERSITY OSU

Oregon State UNIVERSITY OSU

Oregon State UNIVERSITY OSU

Oregon State UNIVERSITY OSU

Oregon State UNIVERSITY OSU

Oregon State UNIVERSITY OSU