

Quincy Basin

Potholes Reservoir

Frenchman Hills

Frenchman Hills

Saddle Mountains

Drumheller Channels

Vantage

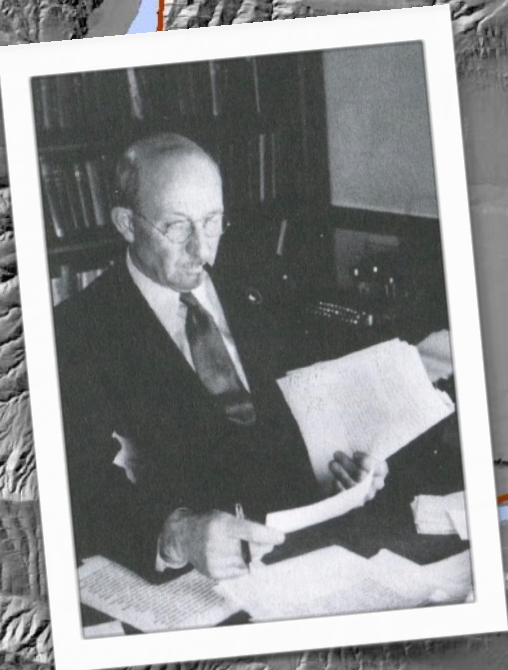
Royal City

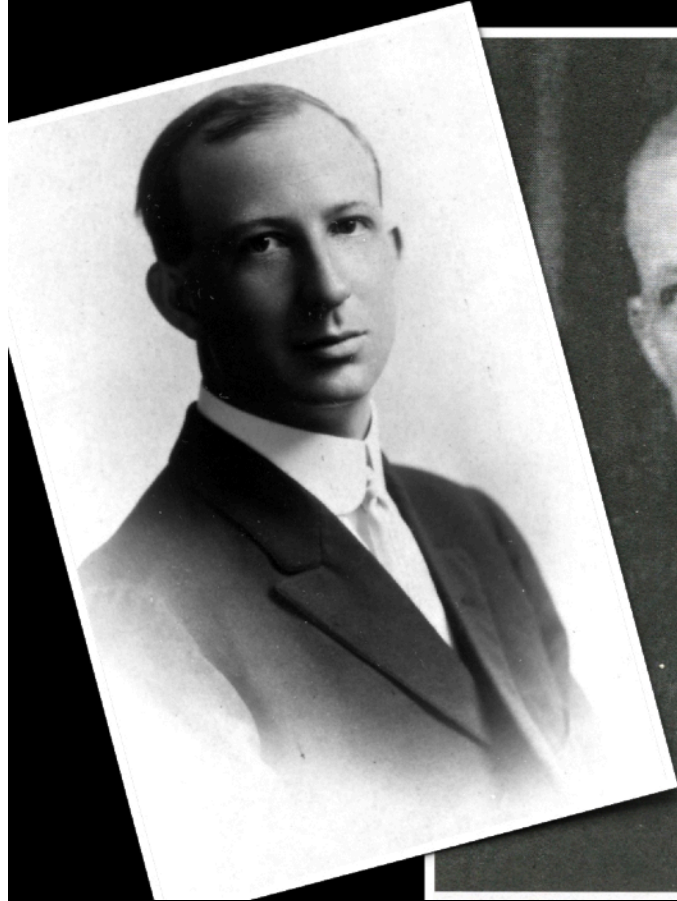
Othello

**Drumheller Channels - J Harlen Bretz
FIELD TRIP**

Sunday, November 3, 2019
Nick Zentner CWU Geology

Color Handouts made possible by members of
Ellensburg Chapter - Ice Age Floods Institute



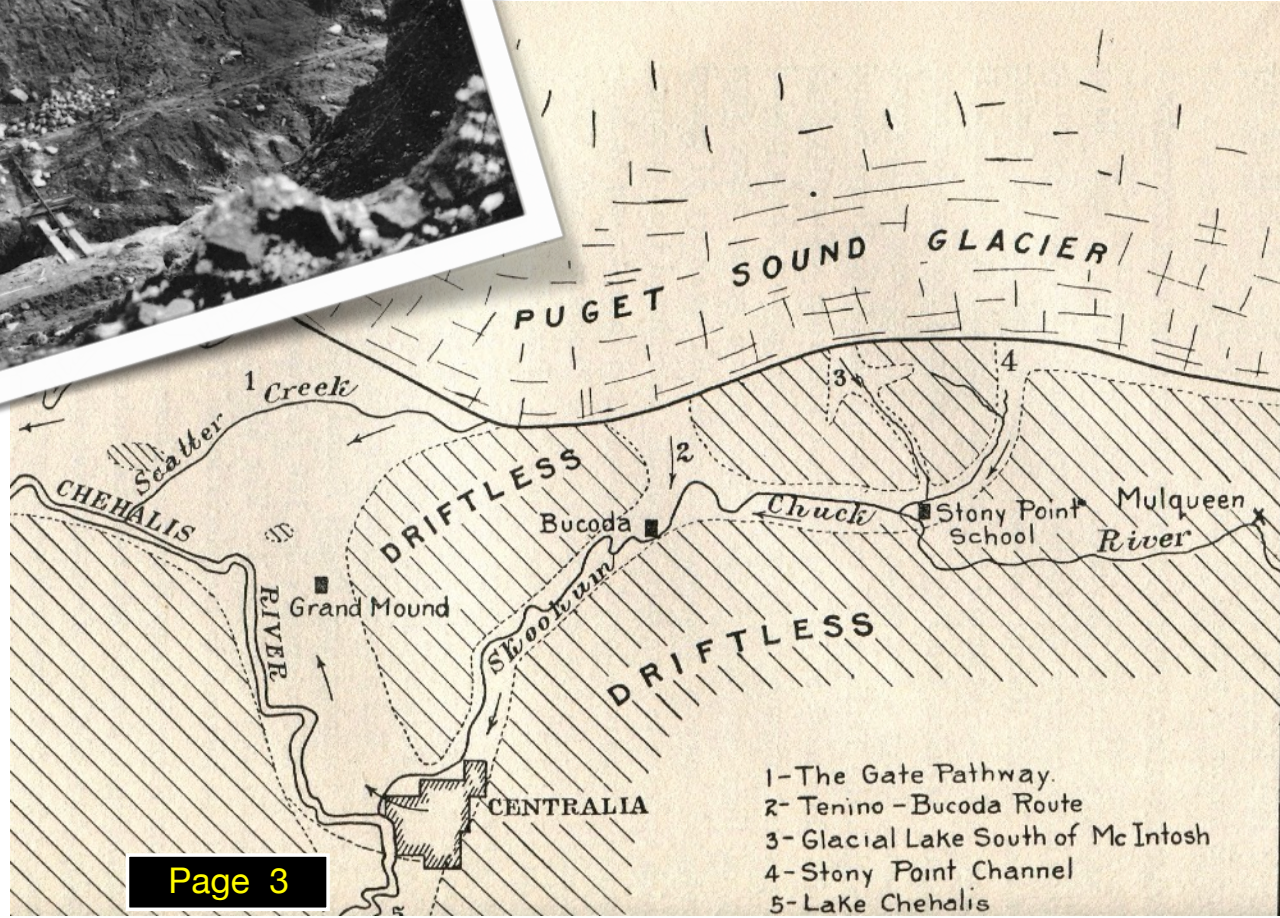


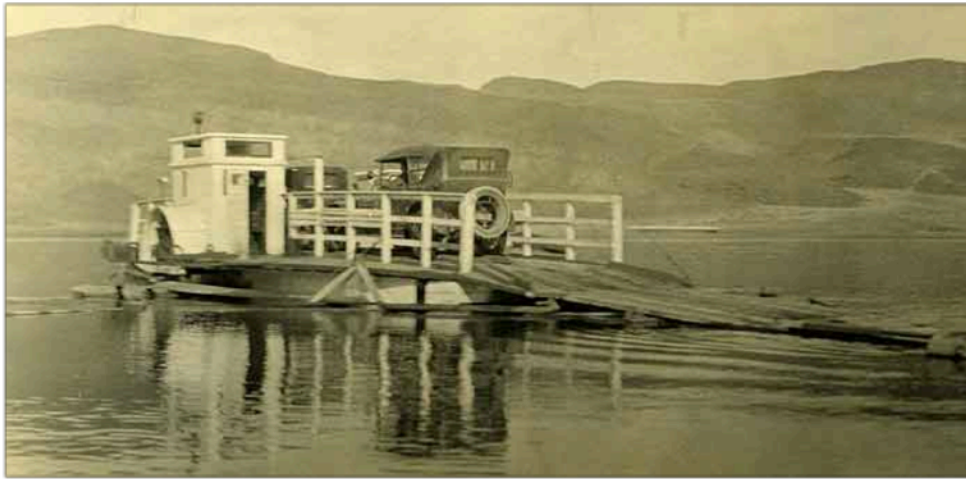
J Harlen Bretz

1901 - 1905	19 - 23	Albion College, MI	biology major
1906 - 1907	24	Flint, MI	high school teacher
1907 - 1911	25 - 29	Seattle, WA	high school teacher
1911 - 1913	29 - 31	U of Chicago	grad student PhD
1913 - 1914	32 - 33	U of Washington	professor
1914 - 1947	33 - 64	U of Chicago	professor
1947 - 1981	64 - 98	retired U of Chicago	professor

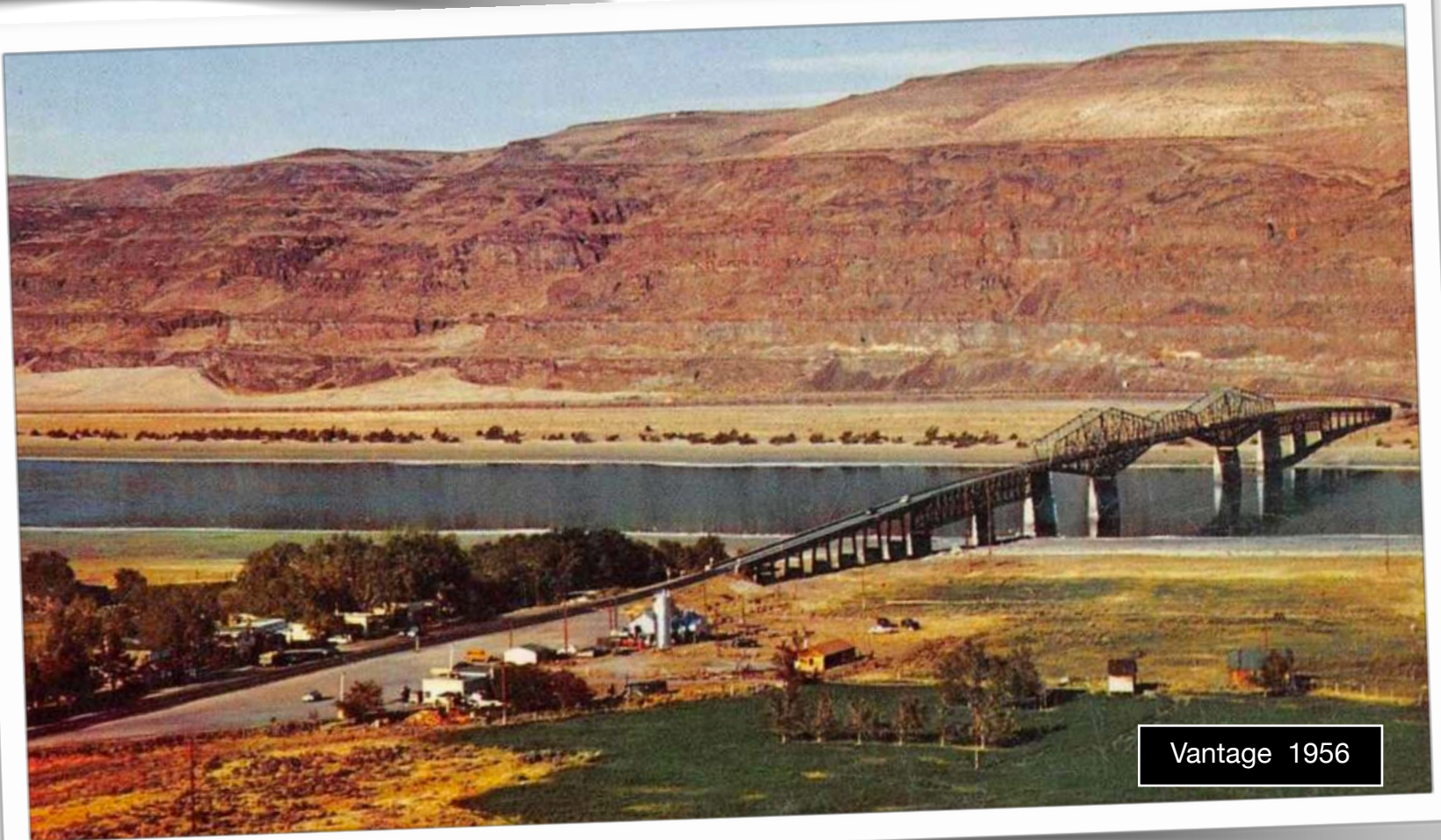


Seattle 1910

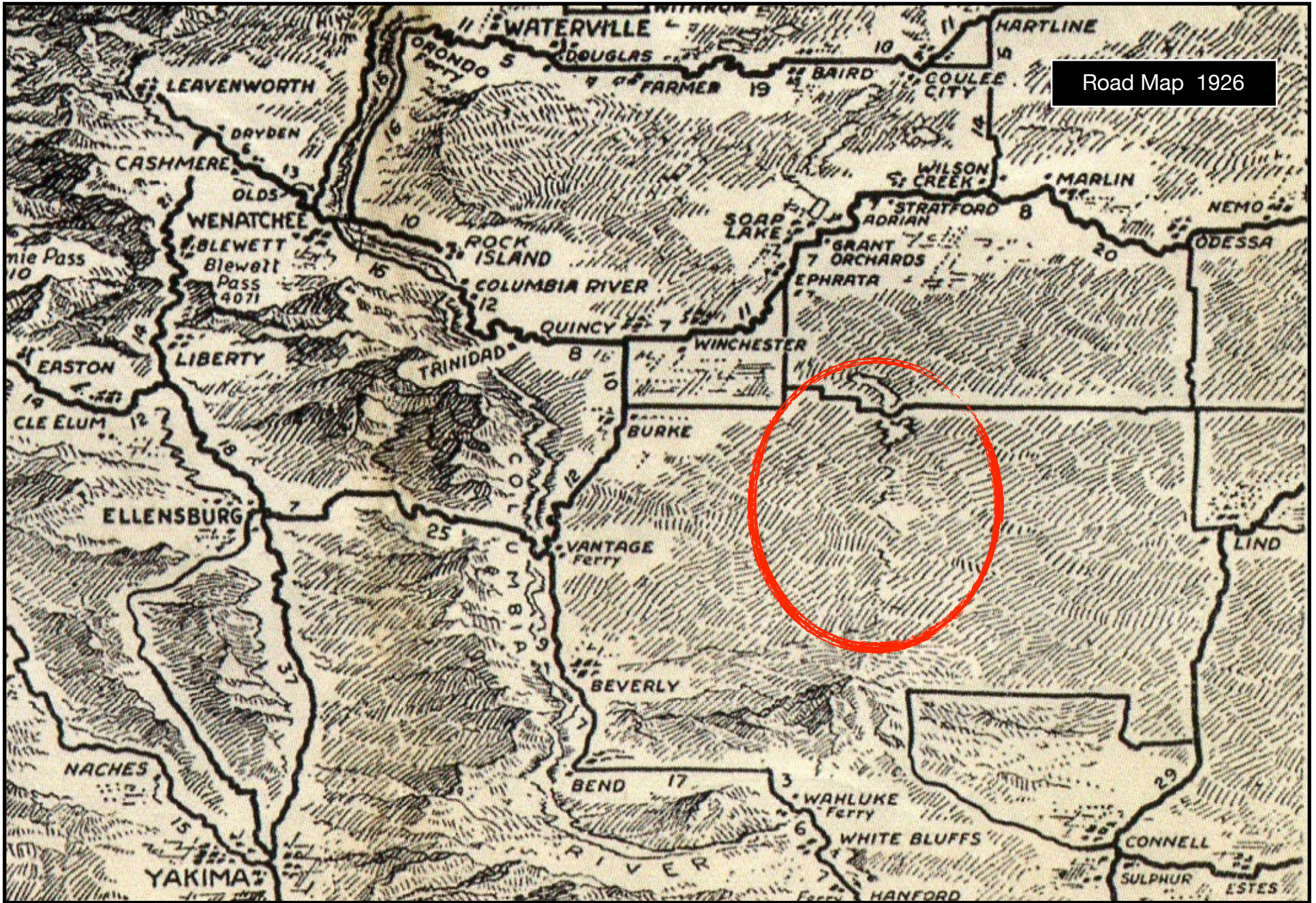




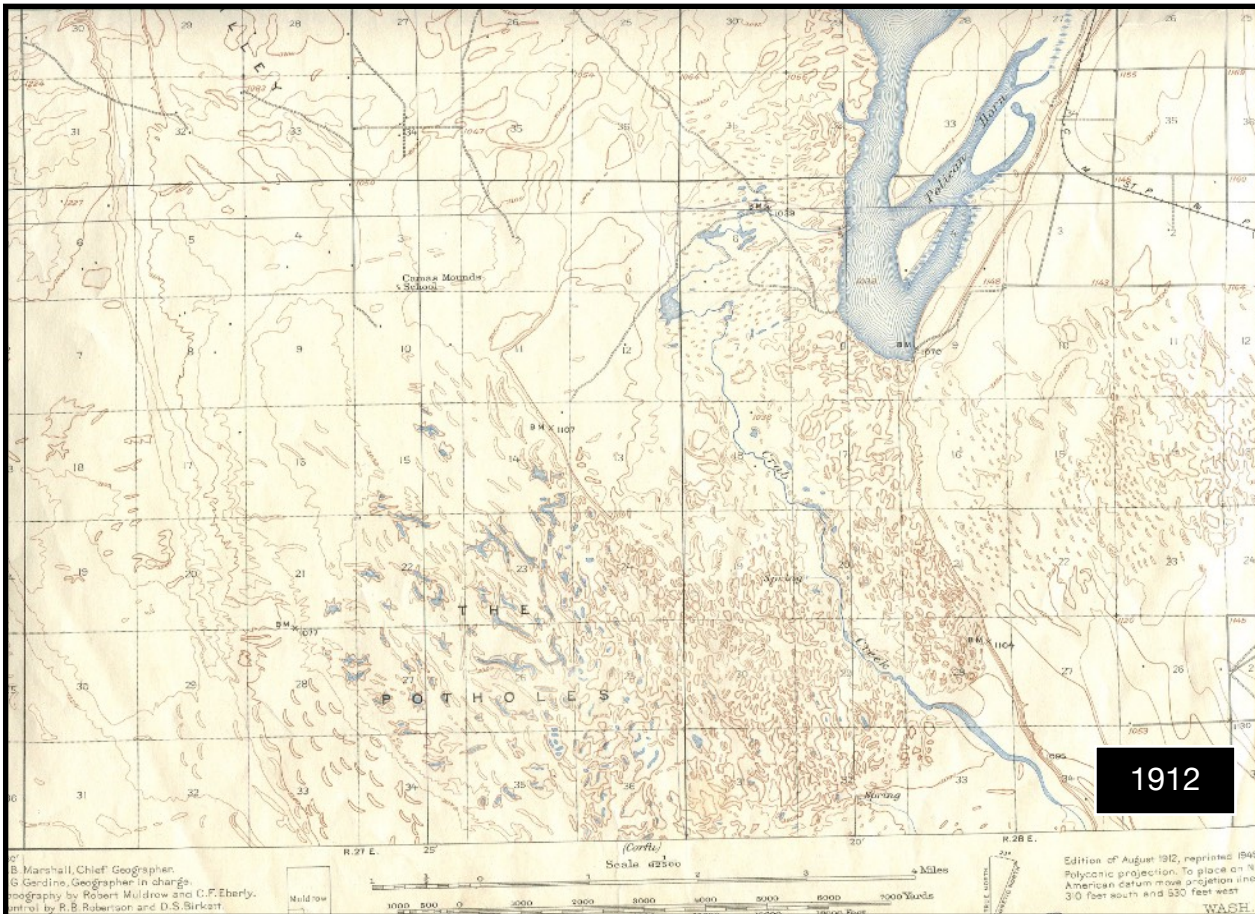
Vantage 1926



Vantage 1956



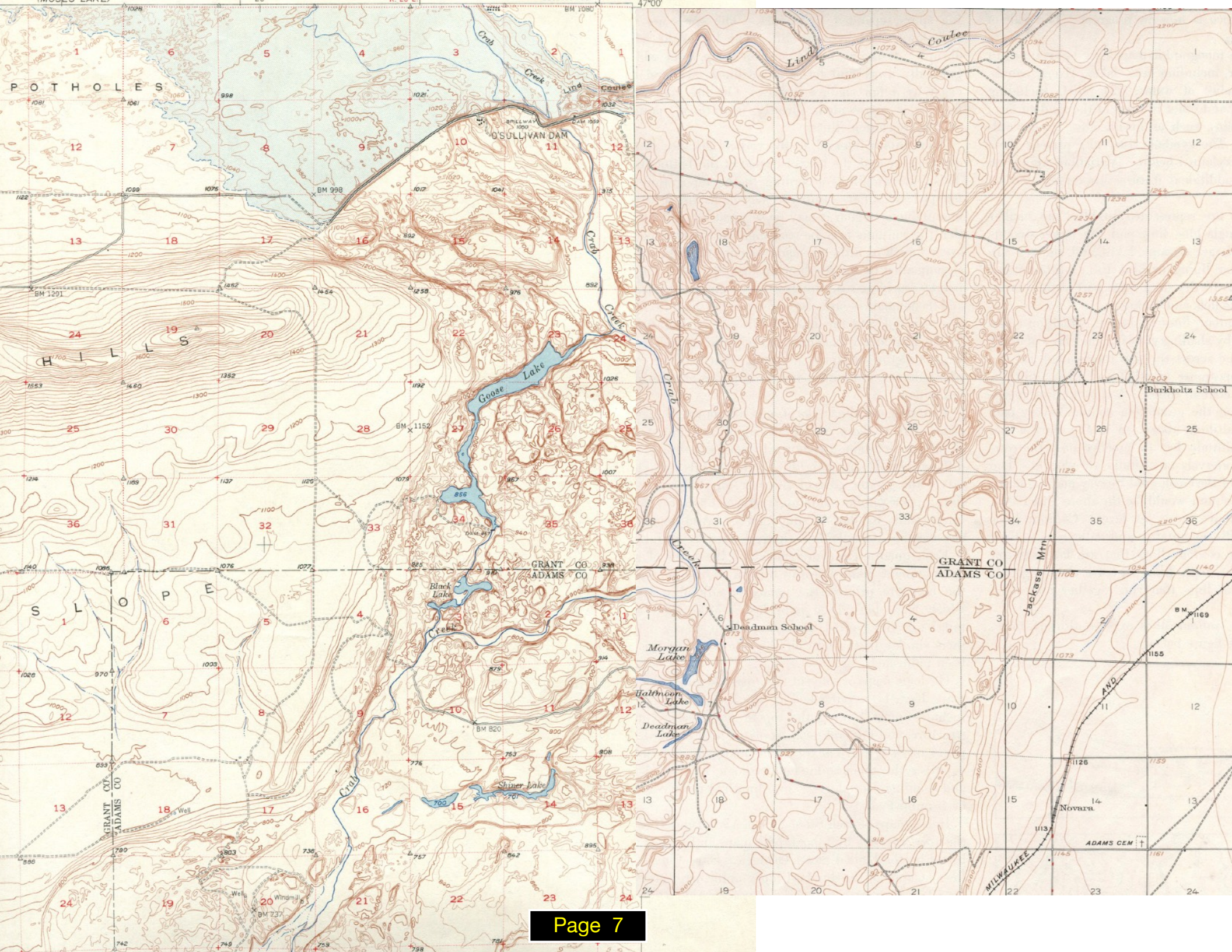
Road Map 1926

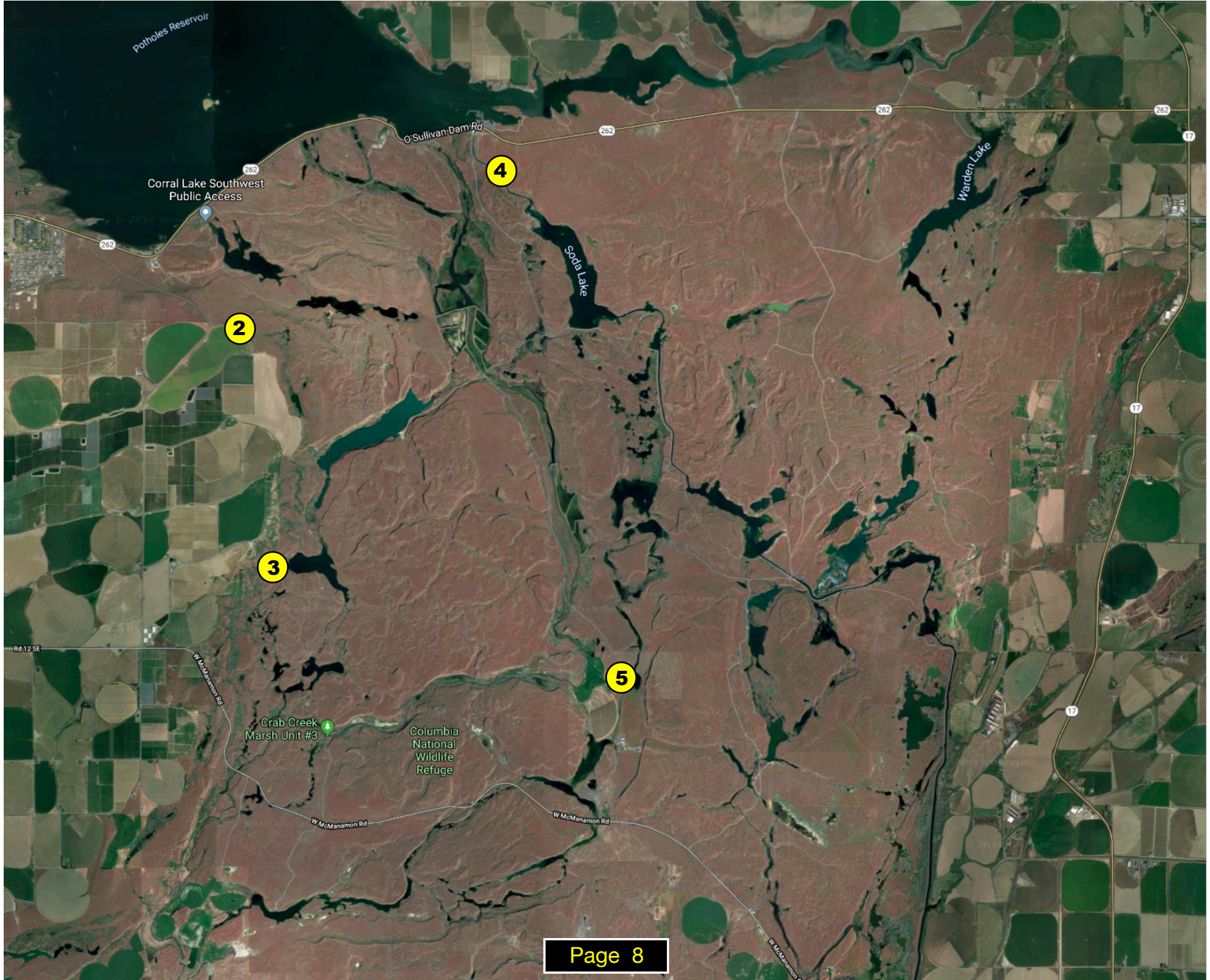


1912



1956





Potholes Reservoir

Corral Lake Southwest Public Access

O'Sullivan Dam Rd

4

Soda Lake

Warden Lake

2

3

5

Crab Creek Marsh Unit #3

Columbia National Wildlife Refuge

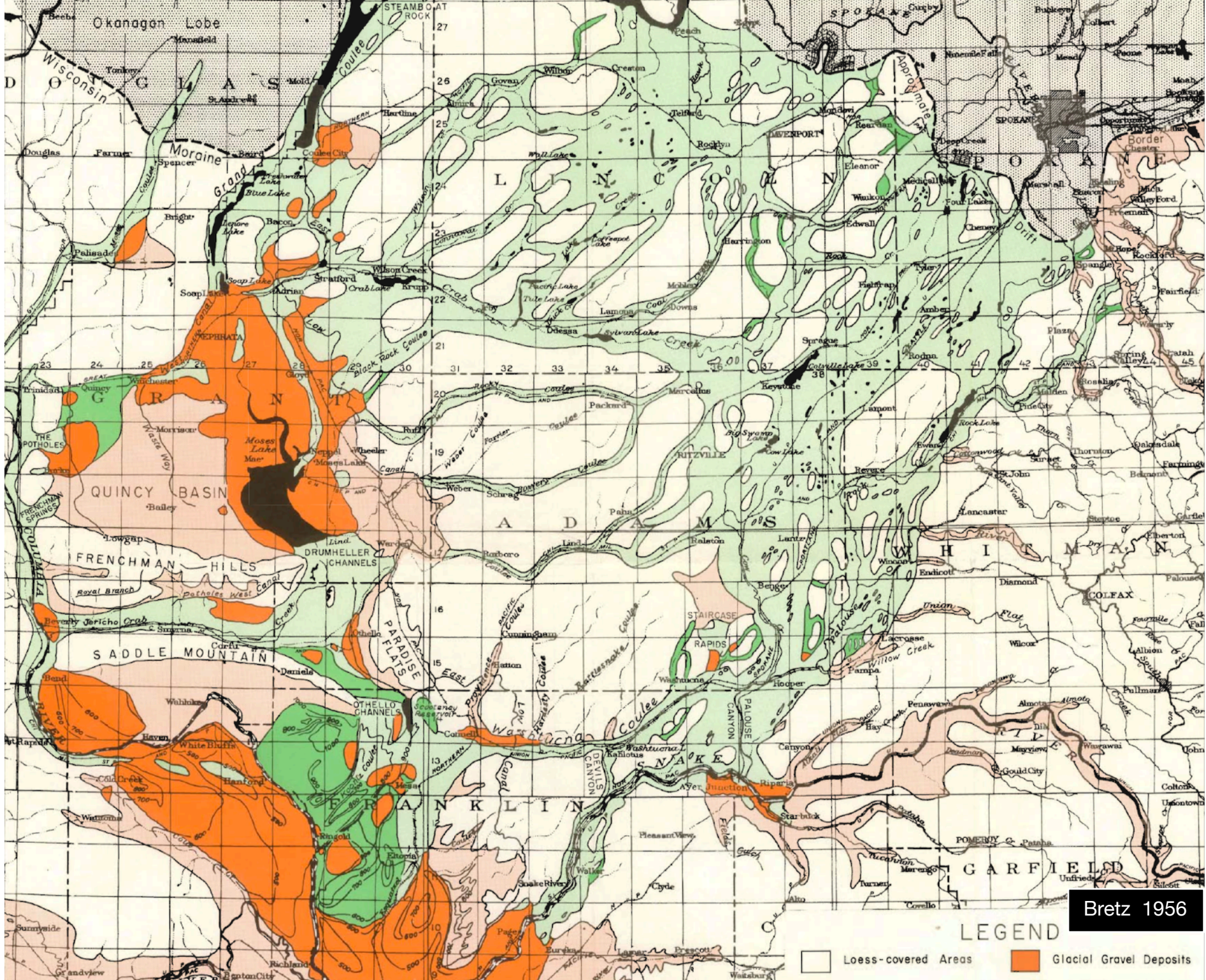
W McManamon Rd

W McManamon Rd

W McManamon Rd

W McManamon Rd

Rd 12 SE

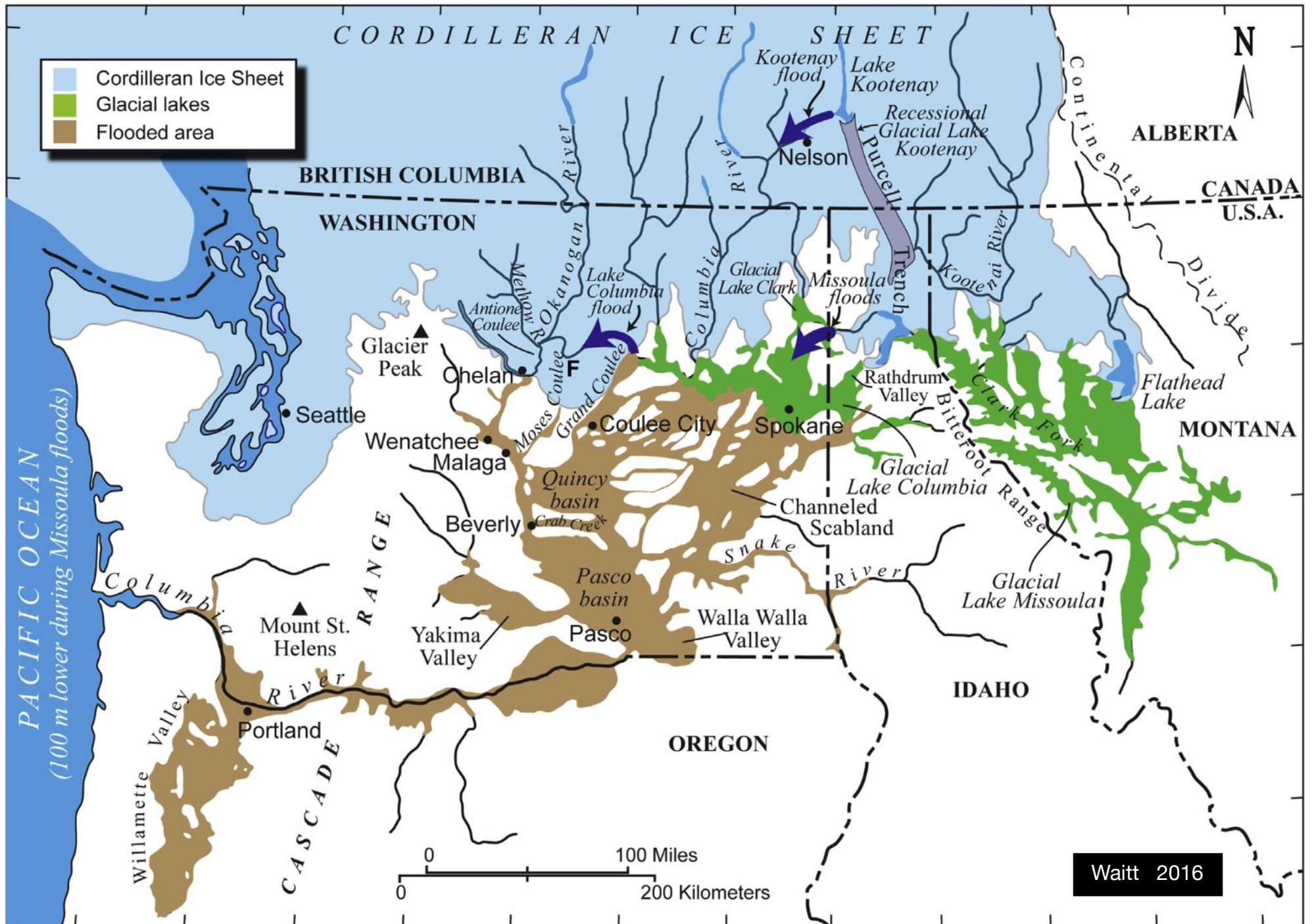


Bretz 1956

LEGEND

- Loess-covered Areas
- Glacial Gravel Deposits
- Glacial Silt and Sand Dep.
- Channeled Scabland in Basalt
- Lakes and Reservoirs
- Glaciated Areas





10:00 am Depart CWU parking lot H6

I-90 East from Ellensburg...Exit I39 (2 miles east of Vantage Bridge), park in 'Scenic View' parking lot.

10:30 am Stop 1 Wild Horses Monument
N 46 57.834 W 119 57.881 | 134 ft elevation

Return to I-90E...Exit I43 Silica Rd, R on U SW Rd, 0.5 mi, L on 5 SW Rd, 3.0 mi, R on Beverly-Burke Rd, 1.0 mi, L on Frenchman Hills Rd, 20.8 mi, L on WA 262E, 6.3 mi, R on H SE Rd, 1.4 mi, L on 9 SE Rd, 0.3 mi, park on right shoulder.

11:45 am Stop 2 O'Sullivan Overlook
N 46 57.278 W 119 18.191 | 1315 ft elevation

Continue on 9 SE Rd (becomes I SE Rd, becomes I0.5 SE Rd), 1.8 mi, L on H SE Rd, 1.0 mi, L on Kulm Rd, 1.6 mi, park in gravel lot by lake.

12:30 pm Stop 3 Lower Goose Lake
N 46 55.474 W 119 17.757 | 884 ft elevation

Return to H SE Rd, R on H SE Rd, 3.9 mi, R on 262 E (O'Sullivan Dam Rd), drive onto dam, 4.3 mi, R on K2 SE Rd (just after dam), 0.8 mi, park at small pullout on right.

2:00 pm Stop 4 Crab Creek Overlook
N 46 58.277 W 119 15.389 | 969 ft elevation

Continue on K2 SE Rd (becomes S Morgan Lake Rd), 5.4 mi (follow signs to Othello), park in lot on left.

3:00 pm Stop 5 McManamon Lake
N 46 54.494 W 119 13.730 | 823 ft elevation

Continue on S Morgan Lake Rd, 1.3 mi, R on McManamon Rd, becomes I2 SE Rd, 12.9 mi, L on WA 262, 3.4 mi, R on WA 26 W, Royal City, Vantage, I-90 W to CWU.

5:30 pm Arrive CWU parking lot H6