

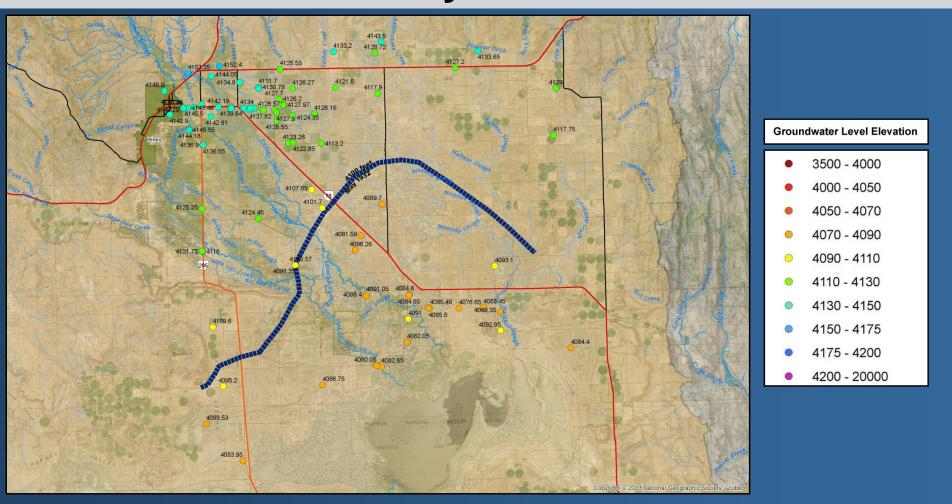
Oregon Water Resources Department 17 July 2018



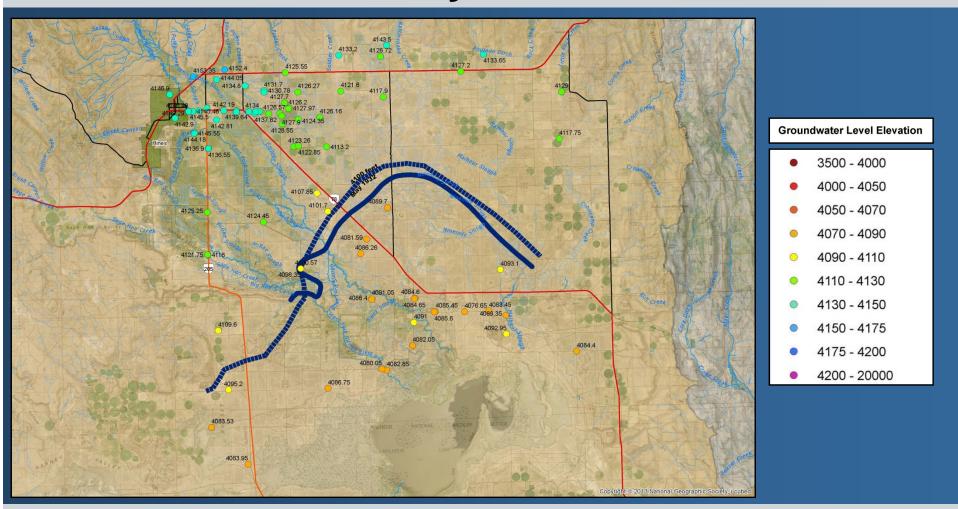
Presentation Outline

- May 1932
- May 1969
- February-March 2018
- First Impressions
- Apparent Change from 1969 to 2018
- Northern Uplands
- Steens Mountain

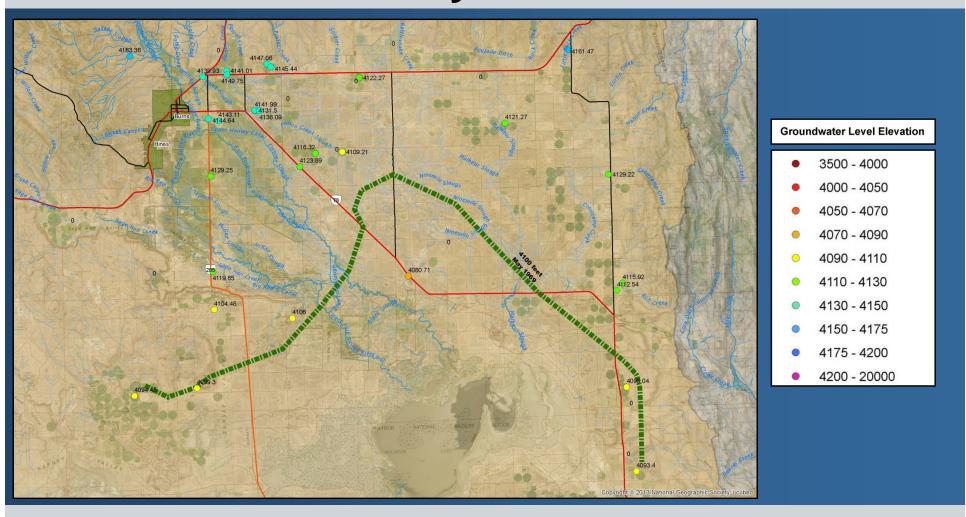
May 1932



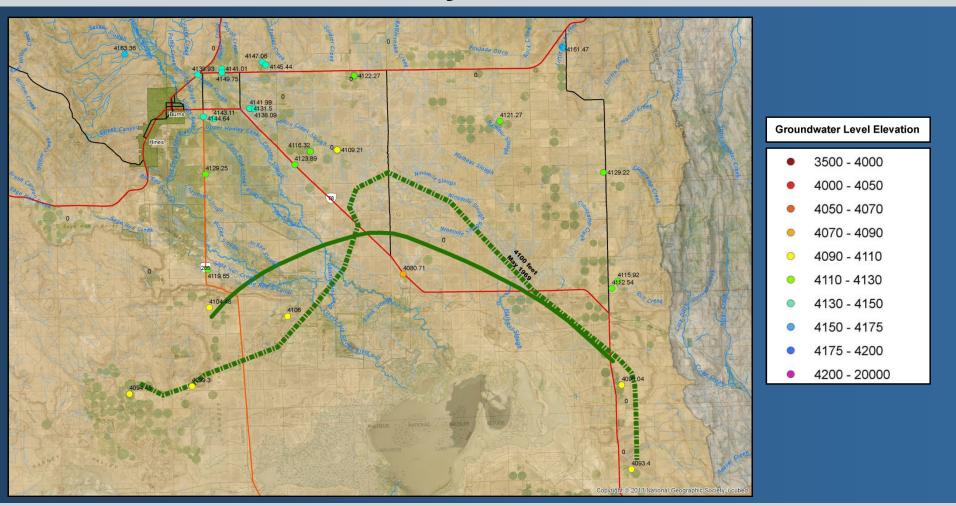
May 1932



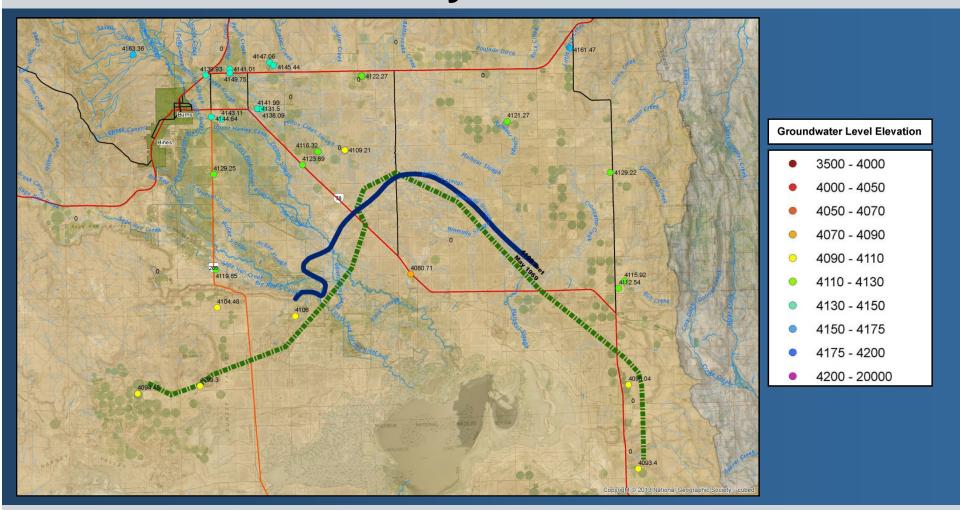
May 1969



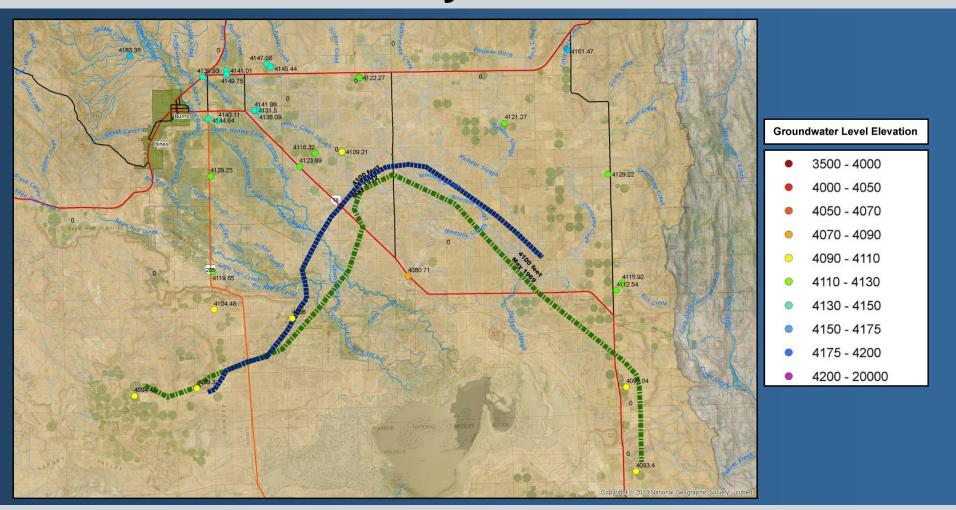
May 1969



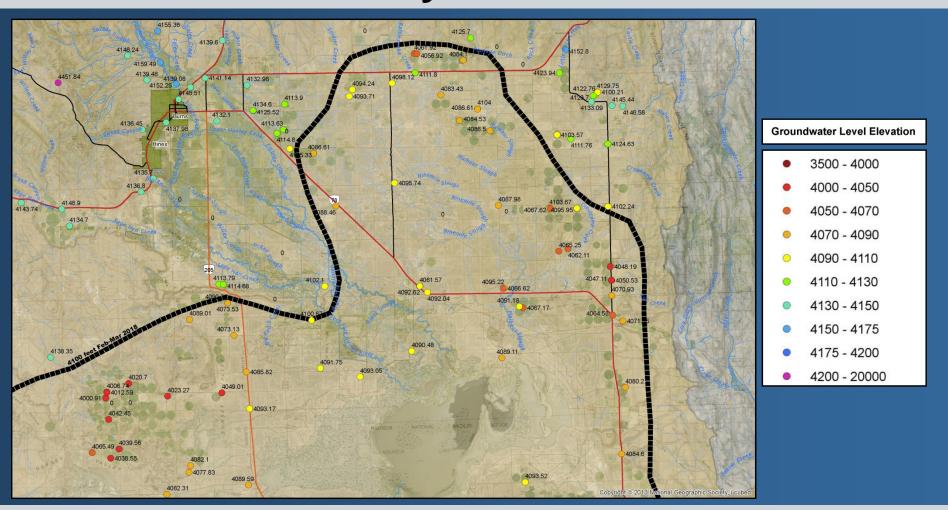
May 1969



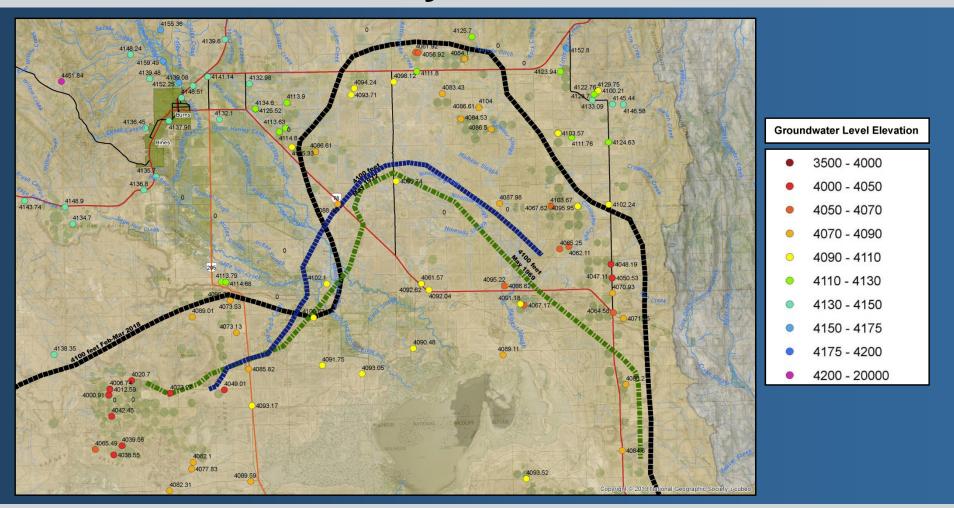
May 1969



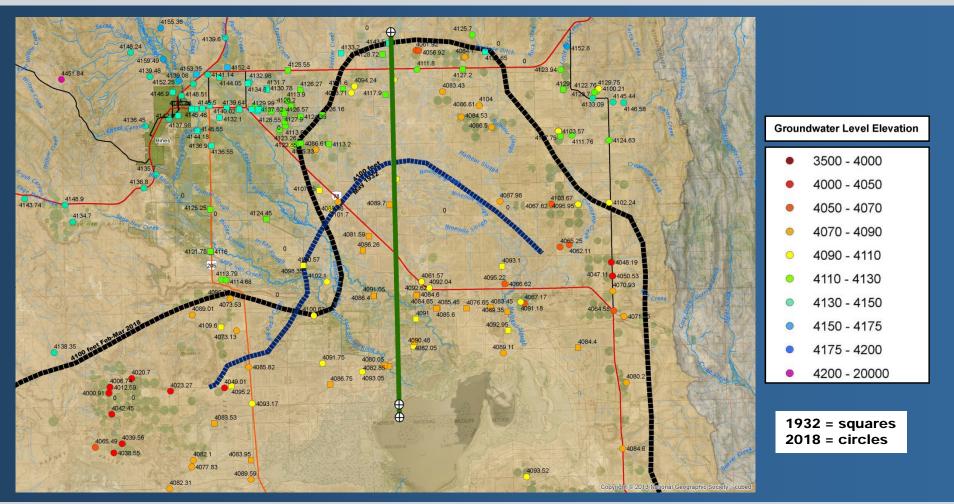
February-March 2018



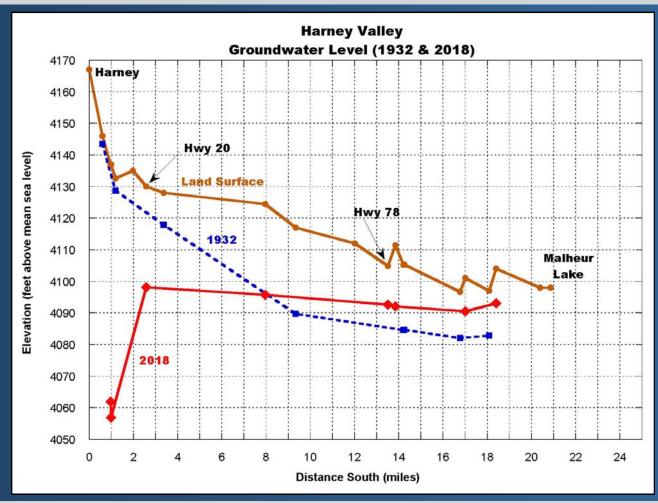
February-March 2018



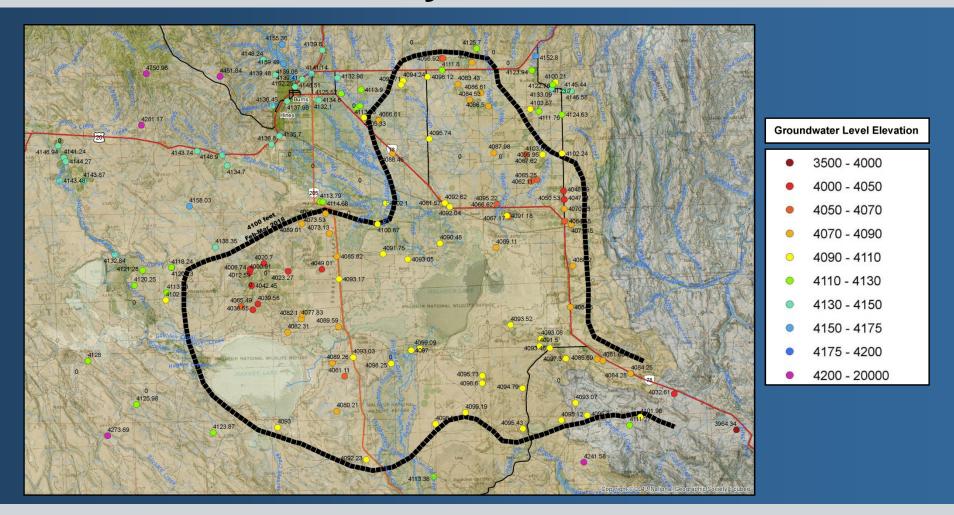
May 1932 & February-March 2018



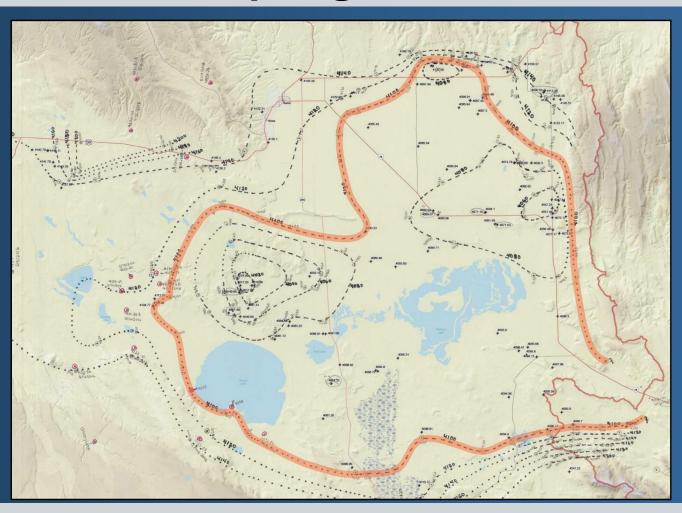
May 1932 & February-March 2018



February-March 2018



Spring 2016



Spring 2016



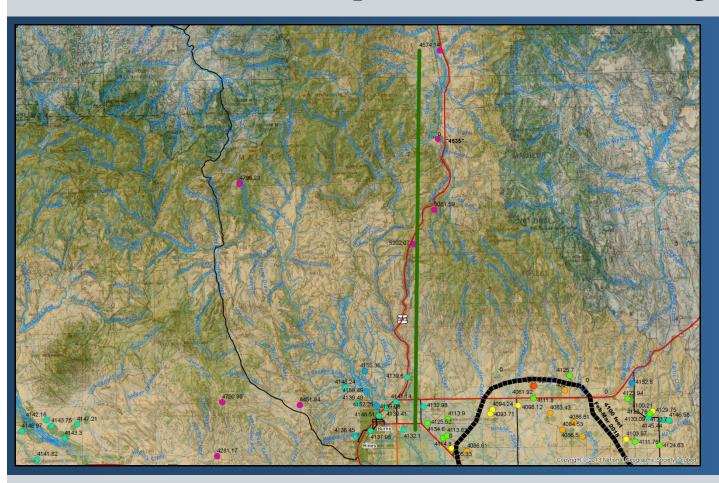
First Impressions

- Harney Valley GW Change Occurs 1969-2018
- GW Recharge: Silvies River Influence
- GW Discharge: Warm Springs Valley
- GW Discharge: Donner und Blitzen Valley
- GW Gradient from Harney Valley to Southeast
- GW Mound (15 to 25 feet): Palomino Plateau

Apparent Change from 1969 to 2018

- Harney Valley: 4100-foot contour retreat N & E
- Hwy 20 (E of Burns): Decline > 20 feet
- Crane: Decline > 30 feet
- Princeton: ~ 10 feet
- Weaver Springs: 25 to > 80 feet
- Riley: ~ 5 feet

North Uplands – Hwy 395



Silvies Valley

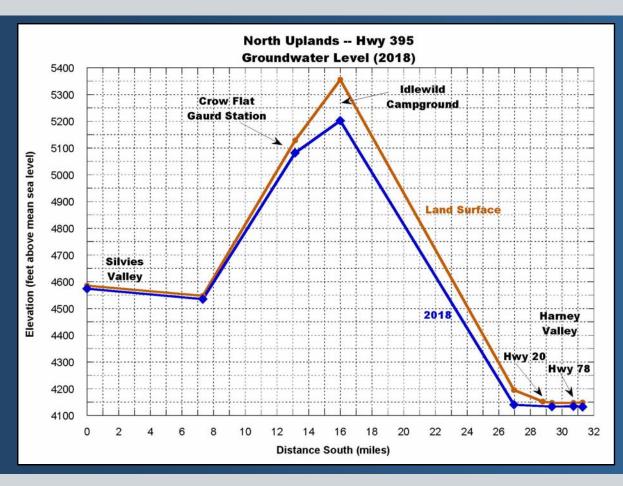
Crow Flat Guard Station

Idlewild Campground

Hwy 20

Hwy 78

North Uplands – Hwy 395



Silvies Valley

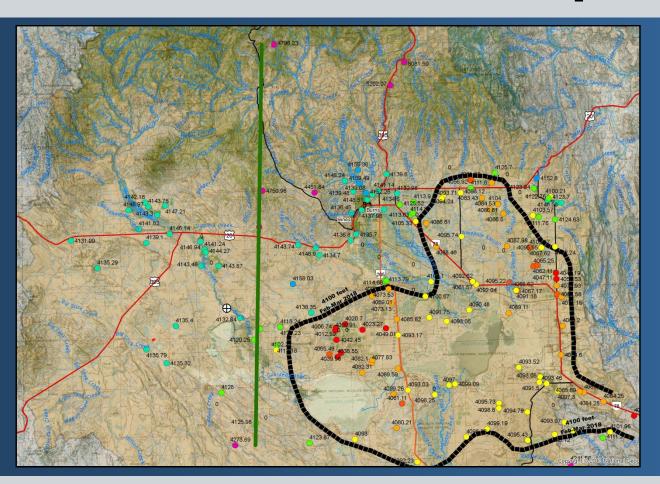
Crow Flat Guard Station

Idlewild Campground

Hwy 20

Hwy 78

North to South Uplands



Yellowjacket Campground

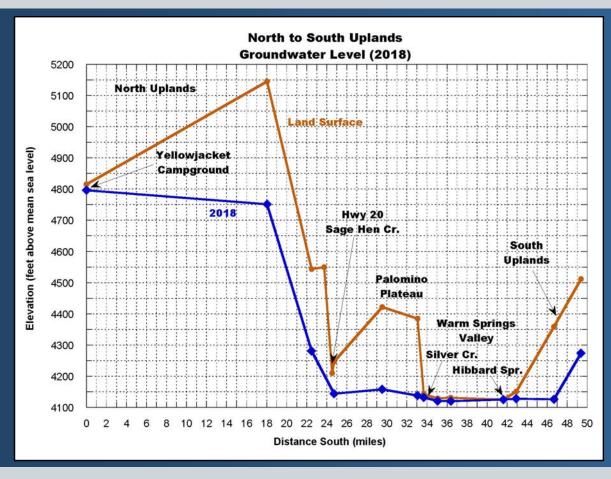
Sage Hen - Double O Road

Palomino Plateau

Warm Springs Valley

South Uplands

North to South Uplands



Yellowjacket Campground

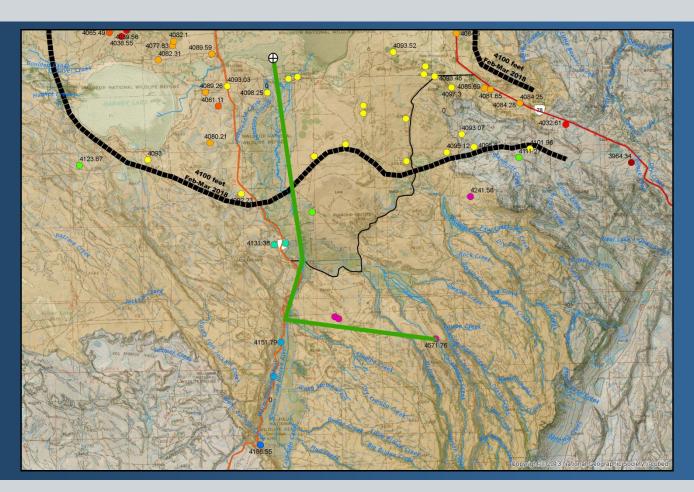
Sage Hen - Double O Road

Palomino Plateau

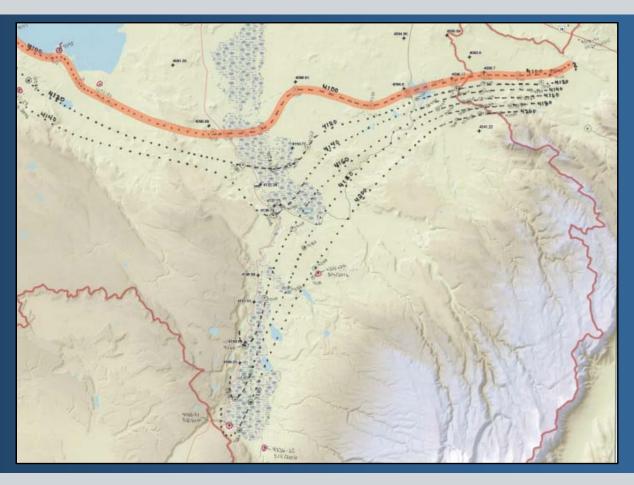
Warm Springs Valley

South Uplands

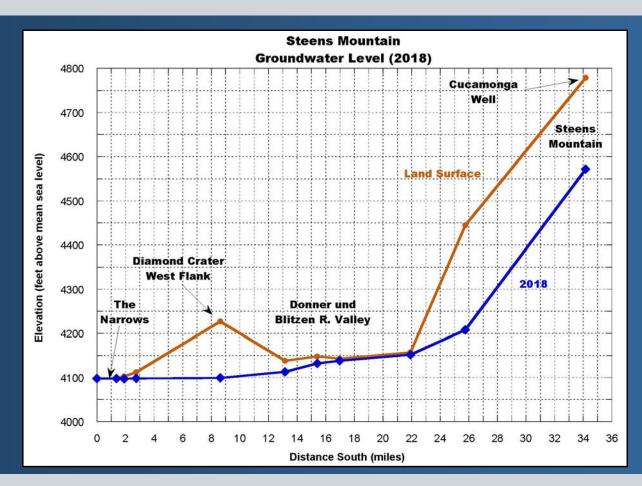
Steens Mountain



Steens Mountain



Steens Mountain



Questions & Thank You



Photo by Chad Sobotka