

IDAHO WATER RESOURCE BOARD MEETING NO. 6-20

July 30, 2020



**Idaho Water Center
322 E. Front Street
Conference Rooms 602 C & D/ Online
BOISE**



Media



Amended AGENDA

IDAHO WATER RESOURCE BOARD

Board Meeting No. 6-20

Thursday, July 30, 2020

9:00 a.m. (MST)

(This meeting will be conducted using guidance in accordance with Governor Little's Stay Healthy Order issued May 30, 2020 in response to the public health emergency caused by the COVID-19 pandemic.)

Board Members & the Public may participate via Go-To Meeting

Please join the meeting from your computer, tablet or smartphone.

<https://www.gotomeet.me/IWRB>

You can also dial in using your phone.

United States: [+1 \(571\) 317-3122](tel:+15713173122)

Access Code: 673-626-773

Brad Little
Governor

Roger W. Chase
Chairman
Pocatello
District 4

Jeff Raybould
Vice-Chairman
St. Anthony
At Large

Vince Alberdi
Secretary
Kimberly
At Large

Peter Van Der Meulen
Hailey
At Large

Albert Barker
Boise
District 2

John "Bert" Stevenson
Rupert
District 3

Dale Van Stone
Hope
District 1

Jo Ann Cole-Hansen
Lewiston
At Large

1. Roll Call
2. Agenda & Approval of Minutes 4-20 and 5-20*
3. Public Comment
4. Financial Report
5. Mountain Home Air Force Base Sustainable Water Project
6. Raft River Project*
7. Boise River Feasibility Study Update
8. ESPA Management Updates
 - a. Aquifer Storage
 - b. Reach Gains and Spring Flows
 - c. SWC Settlement Agreement Update
 - d. ESPA Water Level Change Animation
9. Flood Mitigation Grant Funding Awards*
10. Lost Valley Reservoir Project*
11. Priest Lake Water Management Update*
12. Lemhi Update*
13. Director's Report
14. Non-Action Items for Discussion
15. Executive Session: Board will meet pursuant to Idaho Code §74-206(1) subsection (f) to communicate with legal counsel regarding legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated. Topic: American Falls. Executive Session is closed to the public.
16. Next Meeting & Adjourn

* Action Item: A vote regarding this item may be made this meeting. Identifying an item as an action item on the agenda does not require a vote to be taken on the item.

Americans with Disabilities: The meeting will be held telephonically. If you require special accommodations to attend, participate in, or understand the meeting, please make advance arrangements by contacting Department staff by email jennifer.strange@idwr.idaho.gov or by phone at (208) 287-4800.

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098
Phone: (208) 287-4800 Fax: (208) 287-6700 Website: idwr.idaho.gov/IWRB/



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MINUTES MEETING NO. 4-20

Idaho Water Center
Conference Rooms 602 C, D
322 East Front Street, 6th Floor
BOISE

May 28, 2020
Board Meeting No. 4-20

At 9:00 a.m. Chairman Chase called the meeting to order. This meeting was conducted via online GoToMeeting/Teleconference from the IDWR conference rooms listed above.

Agenda Item No. 1: Roll Call

Board Members Present via GoToMeeting/Teleconference

| | |
|--------------------------|------------------------------|
| Roger Chase, Chairman | Jeff Raybould, Vice-Chairman |
| Vince Alberdi, Secretary | Pete Van Der Meulen |
| Bert Stevenson | Dale Van Stone |
| Jo Ann Cole-Hansen | Albert Barker |

Staff Members Present

| | |
|-----------------------------|---------------------------------|
| Gary Spackman, Director | Brian Patton, Executive Officer |
| Mat Weaver, Deputy Director | Jennifer Strange, Admin. Asst. |

Via GoToMeeting/Teleconference

| | |
|--|------------------|
| Cynthia Bridge Clark, Water Projects Section Manager | |
| Neeley Miller, Water Resource Sr. Planner | |
| Garrick Baxter, Deputy Attorney General | |
| Sean Vincent | Craig Tesch |
| Wesley Hipke | Amy Cassel |
| Neal Farmer | Rick Collingwood |
| Emily Skoro | Kala Golden |
| Justin Shearer | Steve Stuebner |
| Noah Stewart-Maddox | |

Guests Present via GoToMeeting/Teleconference

| | | |
|---------------|-----------------|----------------|
| Ann Vonde | Darrell Early | Clive Strong |
| Michael Orr | Bryan Horsburgh | Scott Campbell |
| Hattie Zobott | Dylan Lawrence | Tom Bassista |

Peter Anderson
Lynn Tominaga
Rob Sepich

John Roldan
Marie Callaway Kellner
Scott Pugrud

Kresta Davis-Butts
Selena Moore
John Simpson

Agenda Item No. 2: Agenda and Approval of Minutes 3-20

Mr. Patton presented meeting minutes 3-20 for approval.

Mr. Raybould moved to accept the minutes with the addition of Al Barker to the roll call. Mr. Alberdi seconded the motion. Voice vote. All ayes. The minutes were adopted.

Agenda Item No. 3: Public Comment

There were no public comments.

Agenda Item No. 4: Financial Report

Mr. Miller provided the Board's financial status report. Available and committed balances were for the Secondary Aquifer Funds: committed/earmarked but not disbursed--\$13,763,007 and uncommitted balance--\$8,445,450; Revolving Development Account: committed/earmarked but not disbursed--\$20,794,411, loan principal outstanding--\$26,242,888, uncommitted balance--\$7,044,254, and anticipated loanable funds available next year--\$10,544,254; and the Water Management account: committed/earmarked but not disbursed--\$21,085,100 and uncommitted balance--\$467,083. The totals were committed/earmarked but not disbursed--\$55,642,518; loan principal outstanding--\$26,242,888; and uncommitted balance--\$15,956,787. There was no discussion.

Agenda Item No. 5: Senate Concurrent Resolution 137

Mr. Clive Strong presented information on Senate Concurrent Resolution 137, which included a brief history of events in the Lemhi River Basin that led to the resolution. There was discussion about what's next and the Board's role. Technical presentations from the Department will be needed to move forward. Meetings with the water users in the basin and board members were recommended. No actions were taken.

Agenda Item No. 6: Boise River Feasibility Study

Ms. Bridge Clark introduced Mr. Bryan Horsburgh from the Bureau of Reclamation who provided a project update and a request from BOR for additional funding from the IWRB to address project cost increases. Mr. Horsburgh explained the reasons for the cost increase and addressed questions from IWRB members. A draft resolution to approve additional funding for the study was presented by Ms. Bridge Clark. She suggested changes to the draft resolution at lines 62-63. It was asked where the additional funds would come from; Mr. Patton stated that the increase would come from the FY 2020 budget from the Secondary Aquifer Fund.

Mr. Raybould made a motion to accept the resolution as recommended. Mr. Stevenson seconded the motion. Roll call vote: Mr. Alberdi, aye; Mr. Barker, aye; Ms. Cole-Hansen, aye; Mr. Raybould, aye; Mr. Stevenson, aye; Mr. Van Der Meulen, aye; Mr. Van Stone, no response; Chairman Chase, aye. Motion passed. The resolution was adopted.

Agenda Item No. 7: Priest Lake Update

Mr. Miller provided a brief background on the management study recommendations; and an update on Phase 3 of the project, including the funding status. Mr. Collingwood provided a schedule of events for the project for this year. He stated that IDWR hydrologists are developing an operations plan. Mr. Miller stated that bids would be coming in and a resolution will likely be presented at the July board meeting. Mr. Raybould asked about funding options and bids. Mr. Collingwood replied that there seems to be a good amount of interest in the upcoming project. No action was taken by the board on this item.

Agenda Item No. 8: Secondary Aquifer Planning, Management & Implementation Fund Budget

Mr. Miller discussed the Secondary Aquifer Planning, Management & Implementation Fund Budget and said that when a line item has an asterisks near it, then the funds listed will require a board approved resolution for the funding to be utilized. In April, the Finance Committee recommended the Board adopt the attached budget. There was some discussion on the 5% holdback request from the Governor's office.

Ms. Cole-Hansen made a motion to accept the resolution. Mr. Alberdi seconded the motion. Roll call vote: Mr. Alberdi, aye; Mr. Barker, aye; Ms. Cole-Hansen, aye; Mr. Raybould, aye; Mr. Stevenson, aye; Mr. Van Der Meulen, aye; Mr. Van Stone, no response; Chairman Chase, aye. Motion passed. The resolution was adopted.

Agenda Item No. 9: Flood Management Grant Program Update

Mr. Miller gave a brief history on the Flood Management Grant Program budgets. The FY2020 monies will be transferred on July 1, 2020. Chairman Chase asked if all projects were good projects, and Mr. Miller assured that the guidance criteria developed by the Board was being used. The deadline for project submittal would result in a recommendation from an upcoming Finance Committee meeting.

Agenda Item No. 10: Administrative Rules Update

Mr. Weaver provided a brief review of the administrative rules processes. He discussed next steps and a memo from the Division of Financial Management.

Agenda Item No. 11: Update on Legislation

Mr. Baxter provided information on legislation recently passed. There was some discussion about the Bear River adjudication legislation that was passed. There was some discussion about Senate Bill 1283. No action was taken.

Agenda Item No. 12: Director's Report

Director Spackman updated the Board on the University of Idaho financial issue and on the 5% budget holdback directive. He stated that there is currently a hiring freeze for the agency, and those openings will provide some of the funds for the holdback. Any position considered "essential" would need to go before a review committee with DFM. Board members made statements of support for keeping the agency run efficiently by looking at some of the available positions. Director Spackman shared the steps being taken in response to the Covid-19 pandemic. Finally, he discussed some challenges with the stock water statute.

There was further discussion about the upcoming Department budget. No action was taken.

Agenda Item No. 13: Non-Action Items for Discussion

Mr. Stevenson asked about flows past Milner. Mr. Hipke stated the flows were natural, not augmented. Chairman Chase stated he had received an email from John Williams of BPA that provided evidence that water vessels which had passed inspections were found to have invasive mussels, later found by trained dogs.

Agenda Item No. 14: Executive Session

Mr. Alberdi made a motion to move into Executive Session to communicate with legal counsel regarding legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated; and to consider records that are exempt from disclosure. Mr. Raybould seconded. Roll call vote: Mr. Alberdi, aye; Mr. Barker, aye; Ms. Cole-Hansen, aye; Mr. Raybould, aye; Mr. Stevenson, aye; Mr. Van Der Meulen, aye; Mr. Van Stone, no response; Chairman Chase, aye. All ayes. The topics discussed were Lemhi by Michael Orr and Aquifer Recharge by Ann Vonde and Darrell Early.

Mr. Stevenson made a motion to move out of Executive Session, seconded by Mr. Barker and agreed upon by voice vote in favor. No actions were taken by the Board in Executive Session. The session was closed to the public.

Agenda Item No. 15: Next Meeting and Adjourn

The next meeting was confirmed for July 30, 2020 in Boise and via online/teleconference. Mr. Raybould moved to adjourn. Mr. Barker seconded. Voice vote: all were in favor. The meeting adjourned at 1:45 p.m.

Respectfully submitted this 30th day of July, 2020.

Vince Alberdi, *Secretary*

Jennifer Strange, *Administrative Assistant II*

Board Actions:

1. Adopted Meeting Minutes No. 3-20.
2. Approved funding resolution to commit additional funding in the matter of Boise River Basin Feasibility Study.
3. Approve a resolution to pass the Fiscal Year 2021 Budget for the Secondary Aquifer Planning, Management, & Implementation Funds.



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MINUTES SPECIAL BOARD MEETING NO. 5-20

Idaho Water Center
Conference Rooms 602 D
322 East Front Street, 6th Floor
BOISE / GoToMEETING

June 16, 2020

At 1:00 p.m. Chairman Chase called the meeting to order.

Agenda Item No. 1: Roll Call

Board Members Present via Teleconference/GoToMeeting

| | |
|--------------------------|------------------------------|
| Roger Chase, Chairman | Jeff Raybould, Vice-Chairman |
| Vince Alberdi, Secretary | Pete Van Der Meulen |
| Bert Stevenson | Dale Van Stone |
| Albert Barker | Jo Ann Cole-Hansen |

Staff Members Present

Brian Patton, Bureau Chief

Staff Members via Teleconference/GoToMeeting

Cynthia Bridge Clark, Water Projects Section Manager
Neeley Miller, Senior Planner Sean Vincent

Guests Present via Teleconference/GoToMeeting

| | |
|---------------|---------------|
| Michael Orr | Darrell Early |
| Ann Vonde | Braden Jensen |
| Kurt Newbry | Lynn Tominaga |
| John Williams | |

Agenda Item No. 2: Executive Session

Mr. Alberdi made a motion to move into Executive Session to communicate with legal counsel regarding legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated. Mr. Van Der Meulen seconded. Roll call vote: Mr. Alberdi, aye; Mr. Barker, aye; Ms. Cole-Hansen, aye; Mr. Raybould, aye; Mr. Stevenson, aye; Mr. Van Der Meulen, aye; Mr. Van Stone, aye; Chairman Chase, aye. The topic discussed by Darrell Early was Lemhi River.

Mr. Alberdi made a motion to move out of Executive Session, seconded by Mr. Barker and agreed upon by voice vote in favor. No actions were taken by the Board in Executive Session. The session was closed to the public. The Board moved back into public session at 2:24 p.m.

Agenda Item No. 3: Lemhi River

Mr. Raybould made a motion to direct the Attorney General to file a petition for judicial review in the matter of the Lemhi River. Mr. Barker seconded the motion. Roll call vote: Mr. Alberdi, aye; Mr. Barker, aye; Ms. Cole-Hansen, aye; Mr. Raybould, aye; Mr. Stevenson, aye; Mr. Van Der Meulen, aye; Mr. Van Stone, aye; Chairman Chase, aye. All Ayes. The motion carries.

Agenda Item No. 4: Non-Action Items for Discussion

Mr. Patton stated the Governor's office requested a special board meeting for next Monday, June 22, 2020.

Agenda Item No. 5: Next Meeting and Adjourn

Mr. Raybould moved to adjourn. Mr. Alberdi seconded. Voice vote: all were in favor. The meeting adjourned at 2:28 p.m.

Respectfully submitted this 30th day of July, 2020.

Vince Alberdi, *Secretary*

Jennifer Strange, *Administrative Assistant II*

Memorandum



To: Idaho Water Resource Board
From: Neeley Miller, Planning & Projects Bureau
Date: July 21, 2020
Re: Financial Status Report

As of **June 30, 2020** the IWRB's available and committed balances are as follows:

Secondary Aquifer Fund:

| | |
|---------------------------------------|--------------|
| Committed/earmarked but not disbursed | \$10,662,779 |
| Uncommitted Balance | \$8,546,976 |

Revolving Development Account:

| | |
|--|--------------|
| Committed/earmarked but not disbursed | \$18,210,941 |
| Loan principal outstanding | \$26,578,649 |
| Uncommitted Balance | \$7,809,468 |
| Anticipated loanable funds available next 1 year | \$11,309,468 |

Water Management Account

| | |
|---------------------------------------|--------------|
| Committed/earmarked but not disbursed | \$20,893,116 |
| Uncommitted Balance | \$691,180 |

| | |
|--|---------------------|
| Total committed/earmarked but not disbursed | \$49,766,836 |
| Total loan principal outstanding | \$26,578,649 |
| Total uncommitted balance | \$17,047,624 |

- The committed/earmarked balance in the Water Management Account includes the remainder of the FY 2019 \$800K legislative appropriation for the Flood Management Grant Program and \$200K for the Mid-Snake Water Quality Monitoring/Modeling effort. It also includes the \$20M legislative appropriation per HB 285 for the Anderson Reservoir Enlargement and/or MHAFFB Water Supply Project.
- House Bill 646 passed and approved by the 2020 Legislature included a \$1,000,000 transfer from the General Fund transferred to the Water Management Account, with \$800K for the Flood Management Grant Program and \$200K for the Mid-Snake Water Quality Monitoring/Modeling effort. These funds will be reflected in the FY 2021 balance sheets.
- In May 2020 the IWRB authorized a budget which committed all available funds in the Secondary Aquifer Fund for FY 2021.

Idaho Water Resource Board
Budget and Committed Funds
as of June 30, 2020

SECONDARY AQUIFER PLANNING, MANAGEMENT, & IMPLEMENTATION FUND

FYE 2019 Cash Balance..... 20,839,565.33

FY 2020 Revenue

| | | |
|--|--------------|----------------------|
| Interest Earned State Treasury..... | 457,410.65 | |
| Recharge Payments - City of Pocatello..... | 50,462.40 | |
| HB547 - State Recharge & Aquifer Stabilization (SRAS)..... | 5,000,000.00 | |
| HB256, Section 4 - Water Sustainability..... | 5,000,000.00 | |
| Department of Energy Grant (\$2.068M)..... | 368,700.00 | |
| TOTAL FY 2020 REVENUE..... | | 10,876,573.05 |

FY 2020 Expenditures

| | | |
|---|----------------|--|
| SRAS Equipment & Supplies - FY 20..... | (32,003.33) | |
| SRAS Conveyance Costs - FY 19..... | (2,171,885.11) | |
| SRAS Conveyance Costs - FY 20..... | (2,960,307.11) | |
| SRAS Site Monitoring - FY 20..... | (460,652.21) | |
| SRAS Regional Monitoring - FY 19..... | (28,273.98) | |
| SRAS Regional Monitoring - FY 20..... | (105,747.30) | |
| American Falls Reservoir District # 2 (CON01384)..... | (561,595.62) | |
| Big Wood Canal Company (CON01281 - Deitrich Drop Power Plant Improvements Project)..... | (1,155,627.55) | |
| Big Wood Canal Company (CON01293 - MP28 Hydro Plant Winterization Project)..... | (35,000.00) | |
| Denning Well Drilling (CON01382 - Ucon Monitoring well - Ward well)..... | (22,122.50) | |
| Egin Bench Canals Inc (CON01225)..... | (159,490.66) | |
| Elsing Drilling & Pump Co Inc (CON01368 - Wilson Canyon Recharge Basin Improvements Projects - monitoring wells)..... | (59,961.00) | |
| Floyd Lilly Company (CON01378 - Wilson Canyon Recharge Basin Improvements Projects - monitoring wells)..... | (7,782.55) | |
| North Side Canal Company (CON01331 - Wilson Canyon Recharge Basin Improvements Project)..... | (193,547.26) | |
| Quadrant Consulting Inc (CON01337 - MP29 Managed Recharge Site Design Documents & Technical Specs)..... | (29,216.00) | |
| The Ferguson Group (FY 2019 Budget)..... | (11,671.72) | |
| The Ferguson Group (FY 2020 Budget)..... | (88,199.28) | |
| Steve Stuebner (FY 2019 Budget) - Media Services..... | (1,368.75) | |
| Steve Stuebner (FY 2020 Budget) - Media Services..... | (15,666.19) | |
| Clive Strong (CON01371)..... | (11,077.41) | |
| Elizabeth Cresto (CON01390)..... | (948.75) | |
| Elmore County (CON01251 - Canyon Creek Recharge Site)..... | (140,000.00) | |
| Travel Costs for IWRB and staff..... | (72.72) | |
| WS Hydrology Monitoring - FY 19..... | (13,249.53) | |
| WS Hydrology Monitoring - FY 20..... | (151,930.66) | |
| USGS - 6605 (Treasure Valley Modeling) FY18..... | (222,503.80) | |
| University of Idaho (CON01159)..... | (425,208.00) | |
| University of Idaho (CON01210, TV Model)..... | | |
| University of Idaho (CON01341, GIS)..... | (44,178.05) | |
| University of Idaho (CON01427, Raft River)..... | (53,750.00) | |
| Lost Valley Reservoir Company (CON01282 - Northern Idaho Ground Squirrel Study)..... | (5,237.00) | |
| Brown & Caldwell (CON01320 - Treasure Valley Managed Recharge Feasibility Study)..... | (63,631.91) | |
| Record Steel & Construction Inc (CON01347 - MHAFB)..... | (33,424.00) | |
| City of Idaho Falls (CON01223)..... | (5,000.00) | |
| Department of Interior - Boise River Feasibility Study (FY2019)..... | (1,000,000.00) | |
| Department of Energy Grant expenditures (ESPA costs) 29871..... | (53,076.64) | |
| Department of Energy Grant expenditures (Big Lost costs) 29872..... | (377,464.08) | |
| Down Right Drilling & Pump Inc (CON01369, SE Boise GWMA) 29873..... | (53,130.00) | |
| Idaho Power - (CON01109)..... | (129,080.00) | |

| | |
|--|--------------|
| Idaho Power - Cloudseeding Model (CON01254)..... | (223,303.15) |
| Idaho Power - Cloudseeding O&M (CON01393)..... | (900,000.00) |
| Idaho Power - Cloudseeding HPC (CON01444)..... | (500,000.00) |

TOTAL FY 2020 EXPENDITURES..... **(12,506,383.82)**

FY 2020 Cash Balance..... **19,209,754.56**

COMMITTED FUNDS THRU FY 2018

| | Budget | Amended | Obligated | Expenditures | Carry forward | Committed |
|--|---------------------|-------------------|---------------------|-----------------------|---------------|-------------------|
| Cooperative Weather Modification Program (Cloud Seeding - CON01109)..... | 492,000.00 | | 492,000.00 | (483,997.64) | | 8,002.36 |
| Department of Energy SEP grant (\$251,000)..... | 200,000.00 | | 251,000.00 | (251,000.00) | | 0.00 |
| Mountain Home Air Force Base (PCA 29800)..... | 1,000,000.00 | 900,000.00 | 1,900,000.00 | (1,197,691.65) | | 702,308.35 |
| Remaining Initial Funds..... | 1,692,000.00 | 900,000.00 | 2,643,000.00 | (1,932,689.29) | 0.00 | 710,310.71 |

ESPA Managed Recharge Infrastructure

| | | | | | | |
|---|---------------------|---------------------|---------------------|-----------------------|-----------------------|-------------------|
| Milner-Gooding Dietrich Drop hydro plant bypass (CON01281)..... | 50,000.00 | 1,450,000.00 | 1,500,000.00 | (1,363,756.86) | | 136,243.14 |
| NSCC Wilson Lake Infrastructure Project (CON01199)..... | 4,000,000.00 | 800,000.00 | 4,800,000.00 | (3,511,723.35) | (1,288,276.65) | 0.00 |
| Northside Canal Recharge Site (CON01240, CON01261)..... | 328,636.45 | | 328,636.45 | (91,771.27) | (236,865.18) | 0.00 |
| Richfield Site Development (CON01226, CON01234)..... | 150,000 | | 150,000.00 | (128,067.93) | (21,932.07) | 0.00 |
| AFRD2 MP 28 Hydro Plant (CON01247)..... | 81,800.00 | | 81,800.00 | (11,800.00) | (70,000.00) | 0.00 |
| NSID Recharge Site Development..... | 250,000.00 | | 250,000.00 | | (250,000.00) | 0.00 |
| Egin Lakes Recharge Project, Phase II (CON01225)..... | 500,000.00 | 80,000.00 | 580,000.00 | (234,766.41) | | 345,233.59 |
| Total ESPA Managed Recharge Infrastructure..... | 5,360,436.45 | 2,330,000.00 | 7,690,436.45 | (5,341,885.82) | (1,867,073.90) | 481,476.73 |

STATEWIDE STUDIES & PROJECTS

TREASURE VALLEY

| | | | | | | |
|---|-------------------|-------------|-------------------|---------------------|-------------|--------------------|
| Treasure Valley Modeling (USGS 6605) Year 2 of 5..... | 500,000.00 | | 500,000.00 | (598,439.19) | | (98,439.19) |
| TREASURE VALLEY TOTAL..... | 500,000.00 | 0.00 | 500,000.00 | (598,439.19) | 0.00 | (98,439.19) |

WOOD RIVER VALLEY

| | | | | | | |
|--|-------------------|------------------|-------------------|---------------------|-------------|-------------|
| Wood River Valley Aquifer GW Model (USGS 6601)..... | 200,000.00 | | 200,000.00 | (200,000.00) | | 0.00 |
| Elmore County - Canyon Creek Recharge Site (CON01251)..... | 50,000.00 | 90,000.00 | 140,000.00 | (140,000.00) | | 0.00 |
| WOOD RIVER VALLEY TOTAL..... | 250,000.00 | 90,000.00 | 340,000.00 | (340,000.00) | 0.00 | 0.00 |

WEISER BASIN

| | | | | | | |
|--|------------------|-------------|------------------|--------------------|-------------|-----------------|
| Lost Valley Reservoir - Northern Idaho Ground Squirrel Study (CON01282)..... | 30,000.00 | | 30,000.00 | (24,759.00) | | 5,241.00 |
| WEISER BASIN TOTAL..... | 30,000.00 | 0.00 | 30,000.00 | (24,759.00) | 0.00 | 5,241.00 |

NORTHERN IDAHO AQUIFERS

| | | | | | | |
|---|-------------------|-------------|-------------------|-------------|---------------------|-------------|
| Lewiston Study Phase II..... | 109,351.82 | | 109,351.82 | | (109,351.82) | 0.00 |
| NORTHERN IDAHO AQUIFERS TOTAL..... | 109,351.82 | 0.00 | 109,351.82 | 0.00 | (109,351.82) | 0.00 |

OTHER STATEWIDE STUDIES & PROJECTS

| | | | | | | |
|--|-------------------|-------------------|---------------------|---------------------|---------------------|-------------------|
| Ground water conservation grants in priority aquifers (CON01205 & CON01223)..... | 200,000.00 | | 200,000.00 | (67,484.03) | (112,515.97) | 20,000.00 |
| Cloud Seeding Operations & Maintenance (1/3 of total)..... | 600,000.00 | 18,000.00 | 618,000.00 | (580,000.00) | | 38,000.00 |
| NRCS Snow Survey contribution USDA (CON01177)..... | 100,000.00 | 100,000.00 | 200,000.00 | (150,000.00) | | 50,000.00 |
| Total Statewide Studies & Projects..... | 900,000.00 | 118,000.00 | 1,018,000.00 | (797,484.03) | (112,515.97) | 108,000.00 |

TOTAL COMMITTED FUNDS THRU FY 2018..... **8,841,788.27** **3,438,000.00** **12,330,788.27** **(9,035,257.33)** **(2,088,941.69)** **1,206,589.25**

Adjustments

| FY 2019 BUDGET | Budget (as approved - May 2018) | Amendments | Budget (as amended) | Obligated | Expenditures | Carry forward | Committed |
|---|------------------------------------|------------|------------------------|--------------|----------------|---------------|-----------|
| ESPA Managed Recharge Operations | | | | | | | |
| Equipment & Supplies..... | 89,000.00 | | 89,000.00 | 89,000.00 | (24,569.14) | (64,430.86) | 0.00 |
| Conveyance Cost..... | 3,500,000.00 | | 3,500,000.00 | 3,500,000.00 | (2,580,123.11) | (919,876.89) | 0.00 |
| Recharge Monitoring..... | 554,550.00 | | 554,550.00 | 554,550.00 | (263,712.43) | (290,837.57) | 0.00 |

| | | | | | | | |
|--|----------------------|---------------------|----------------------|----------------------|------------------------|-----------------------|-------------------|
| Aquifer monitoring network enhancements in priority aquifers..... | 309,351.82 | | 309,351.82 | 309,351.82 | (267,205.66) | | 42,146.16 |
| Cooperative Cloud Seeding Program | | | | | | | |
| Operations & Maintenance (1/3 of total)..... | 800,000.00 | | 800,000.00 | 800,000.00 | (800,000.00) | | 0.00 |
| Cloud Seeding Modeling Project, CON01254 (Year 2 of 4, Total \$1,470,000)..... | 470,000.00 | | 470,000.00 | 470,000.00 | (412,052.50) | | 57,947.50 |
| Operations Costs for add'l generators & Upper Snake aircraft..... | 425,000.00 | | 425,000.00 | 425,000.00 | | (425,000.00) | 0.00 |
| Administrative expenses (public information, staff training, etc)..... | 80,000.00 | | 80,000.00 | 80,000.00 | (42,486.76) | (37,513.24) | 0.00 |
| Professional Assistance for securing Federal Funding..... | 100,000.00 | | 100,000.00 | 100,000.00 | (83,887.82) | (16,112.18) | 0.00 |
| STATE-WIDE TOTAL | 2,184,351.82 | 0.00 | 2,184,351.82 | 2,184,351.82 | (1,605,632.74) | (478,625.42) | 100,093.66 |
| Unspecified Projects in Other Areas or Carry-over | 505,210.00 | (150,000.00) | 355,210.00 | | | | |
| TOTAL FY 2019 BUDGETED FUNDS | 17,909,111.82 | 0.00 | 17,909,111.82 | 17,553,901.82 | (11,202,047.44) | (6,097,285.73) | 254,568.65 |

| FY 2020 BUDGET | Budget (as approved - May 2019) | Amendments | Budget (as amended) | Obligated | Expenditures | Carry forward | Committed |
|---|--|-------------------|--------------------------------|-------------------|---------------------|----------------------|-------------------|
| ESPA Managed Recharge Operations | | | | | | | - |
| Equipment & Supplies..... | 192,880.00 | | 192,880.00 | 192,880.00 | (32,003.33) | | 160,876.67 |
| Conveyance Cost..... | 3,500,000.00 | | 3,500,000.00 | | | | 0.00 |
| Recharge Monitoring..... | 540,950.00 | | 540,950.00 | 540,950.00 | (460,652.21) | | 80,297.79 |
| Regional Monitoring..... | 200,000.00 | | 200,000.00 | 200,000.00 | (105,747.30) | | 94,252.70 |
| Total ESPA Managed Recharge Operations | 4,433,830.00 | 0.00 | 4,433,830.00 | 933,830.00 | (598,402.84) | 0.00 | 335,427.16 |
| ESPA Managed Recharge Infrastructure | | | | | | | |
| North Side CC - Eden Projects..... | 2,000,000.00 | | 2,000,000.00 | | | | 0.00 |
| Large Upper Valley Investigations..... | 500,000.00 | | 500,000.00 | | | | 0.00 |
| Small Upper Valley Sites..... | 1,000,000.00 | | 1,000,000.00 | | | | 0.00 |
| A&B Irrigation - Injection Wells..... | 550,000.00 | | 550,000.00 | | | | 0.00 |
| Reserved for Additional Recharge Projects..... | 500,000.00 | | 500,000.00 | | | | 0.00 |
| Total ESPA Managed Recharge Infrastructure | 4,550,000.00 | 0.00 | 4,550,000.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Managed Recharge Investigations | | | | | | | |
| Big/Little Wood Sites..... | 200,000.00 | | 200,000.00 | | | | 0.00 |
| Reserved for additional investigations and engineering..... | 300,000.00 | | 300,000.00 | | | | 0.00 |
| Total Managed Recharge Investigations | 500,000.00 | 0.00 | 500,000.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ESPA Hydrologic Monitoring | | | | | | | |
| Hydrologic Monitoring (DOE - Year 2 of 3 = \$928K)..... | 310,000.00 | | 310,000.00 | 310,000.00 | | | 310,000.00 |
| ESPA Hydrologic Monitoring | 310,000.00 | 0.00 | 310,000.00 | 310,000.00 | 0.00 | 0.00 | 310,000.00 |
| TREASURE VALLEY | | | | | | | |
| Treasure Valley Modeling Year 4 of 5 (USGS 6605)..... | 500,000.00 | | 500,000.00 | 500,000.00 | | | 500,000.00 |
| Treasure Valley DCMi Water Conservation Study..... | 200,000.00 | | 200,000.00 | | | | 0.00 |
| TREASURE VALLEY TOTAL | 700,000.00 | 0.00 | 700,000.00 | 500,000.00 | 0.00 | 0.00 | 500,000.00 |
| CAMAS PRAIRIE | | | | | | | |
| Ground & Surface Water Monitoring..... | 15,000.00 | | 15,000.00 | | | | 0.00 |
| CAMAS PRAIRIE TOTAL | 15,000.00 | 0.00 | 15,000.00 | 0.00 | 0.00 | 0.00 | 0.00 |

BIG LOST

| | | | | | | | |
|--|-------------------|-------------|-------------------|-------------------|---------------------|-------------|-------------------|
| Hydrologic Monitoring (DOE - Year 2 of 3 = \$1.14M)..... | 380,000.00 | | 380,000.00 | 380,000.00 | (133,613.33) | | 246,386.67 |
| BIG LOST TOTAL..... | 380,000.00 | 0.00 | 380,000.00 | 380,000.00 | (133,613.33) | 0.00 | 246,386.67 |

PALOUSE BASIN

| | | | | | | | |
|------------------------------------|-------------------|-------------|-------------------|-------------|-------------|-------------|-------------|
| Water Sustainability Projects..... | 100,000.00 | | 100,000.00 | | | | 0.00 |
| PALOUSE BASIN TOTAL..... | 100,000.00 | 0.00 | 100,000.00 | 0.00 | 0.00 | 0.00 | 0.00 |

BEAR RIVER BASIN

| | | | | | | | |
|------------------------------------|-------------------|-------------|-------------------|-------------------|-----------------|-------------|------------------|
| Water Sustainability Projects..... | 100,000.00 | | 100,000.00 | 100,000.00 | (948.75) | | 99,051.25 |
| BEAR RIVER BASIN TOTAL..... | 100,000.00 | 0.00 | 100,000.00 | 100,000.00 | (948.75) | 0.00 | 99,051.25 |

COOPERATIVE CLOUD SEEDING PROGRAM

| | | | | | | | |
|--|---------------------|-------------|---------------------|---------------------|---------------------|-------------|---------------------|
| Cloud Seeding Modeling Project, CON01254 (Year 3 of 4, Total \$1,470,000)..... | 231,000.00 | | 231,000.00 | 231,000.00 | (223,303.15) | | 7,696.85 |
| Operations & Maintenance - CON01393 (1/3 of total annual cost for O&M)..... | 1,232,000.00 | | 1,232,000.00 | 900,000.00 | | | 900,000.00 |
| Capital Expenditures - CON01444 (HPC - Year 1 of 2, Total = \$700K)..... | 500,000.00 | | 500,000.00 | 500,000.00 | | | 500,000.00 |
| Program Development Activities - CON01444..... | 200,000.00 | | 200,000.00 | 25,000.00 | | | 25,000.00 |
| COOPERATIVE CLOUD SEEDING PROGRAM TOTAL..... | 2,163,000.00 | 0.00 | 2,163,000.00 | 1,656,000.00 | (223,303.15) | 0.00 | 1,432,696.85 |

RAFT RIVER BASIN

| | | | | | | | |
|---|-------------|-------------------|-------------------|-------------------|--------------------|-------------|-------------------|
| Raft River Basin Hydrologic Project (CON01424)..... | | 204,000.00 | 204,000.00 | 204,000.00 | (53,750.00) | | 150,250.00 |
| RAFT RIVER BASIN TOTAL..... | 0.00 | 204,000.00 | 204,000.00 | 204,000.00 | (53,750.00) | 0.00 | 150,250.00 |

STATE-WIDE

| | | | | | | | |
|--|-------------------|-------------|-------------------|-------------------|---------------------|-------------|------------------|
| Administrative expenses (public information, staff training, etc)..... | 80,000.00 | | 80,000.00 | 80,000.00 | (26,816.32) | | 53,183.68 |
| Hydrological monitoring hardware and software..... | 15,000.00 | | 15,000.00 | 15,000.00 | | | 15,000.00 |
| Professional Assistance for securing Federal Funding..... | 100,000.00 | | 100,000.00 | 100,000.00 | (88,199.28) | | 11,800.72 |
| Aquifer monitoring network enhancements in priority aquifers | | | | | | | |
| Northern Idaho..... | 125,000.00 | | 125,000.00 | 125,000.00 | | | 125,000.00 |
| Southern Idaho (non-ESPA)..... | 125,000.00 | | 125,000.00 | 125,000.00 | | | 125,000.00 |
| STATE-WIDE TOTAL..... | 445,000.00 | 0.00 | 445,000.00 | 195,000.00 | (115,015.60) | 0.00 | 79,984.40 |

Unspecified Projects in Other Areas or Carry-over..... 1,555,170.00 (204,000.00) 1,351,170.00

| | | | | | | | |
|--|----------------------|---------------------|----------------------|---------------------|-----------------------|-------------|---------------------|
| TOTAL FY 2020 BUDGETED FUNDS..... | 15,252,000.00 | (204,000.00) | 15,048,000.00 | 2,418,830.00 | (1,071,283.67) | 0.00 | 1,570,849.48 |
|--|----------------------|---------------------|----------------------|---------------------|-----------------------|-------------|---------------------|

Sources and Applications of Funds
as of June 30, 2020
REVOLVING DEVELOPMENT ACCOUNT

| | |
|---|-----------------------|
| Original Appropriation (1969)..... | \$500,000.00 |
| Legislative Appropriation FY90-91..... | \$250,000.00 |
| Legislative Appropriation FY91-92..... | \$280,700.00 |
| Legislative Appropriation FY93-94..... | \$500,000.00 |
| Legislative Appropriation 2001, SB1239..... | \$200,000.00 |
| Legislative Appropriation 2004, HB843, Sec 12..... | \$500,000.00 |
| Loan Interest..... | \$12,263,173.24 |
| Interest Earned State Treasury (Transferred)..... | \$2,300,701.34 |
| Water Supply Bank Receipts..... | \$7,742,949.64 |
| Transferred to/from Water Management Account..... | \$317,253.80 |
| Filing Fee Balance..... | \$47,640.20 |
| Bond Fees | \$1,469,601.45 |
| Series 2000 (Caldwell/New York) Pooled Bond Issuers fees..... | \$43,657.93 |
| 2012 Ground Water District Bond Issuer fees..... | \$366,000.00 |
| Bond Issuer fees..... | \$21,107.59 |
| Pierce Well Easement..... | \$2,000.00 |
| Transfer from Aqualife Hatchery Sub-Account..... | \$1,117,800.85 |
| Transfer from Pristine Springs Sub-Account..... | \$554,882.10 |
| Legislative Audits..... | (\$49,404.45) |
| IWRB Bond Program..... | (\$15,000.00) |
| IWRB Studies and Projects..... | (\$249,067.18) |
| Arbitrage Calculation Fees..... | (\$12,000.00) |
| Protest Fees..... | (\$995.00) |
| Attorney fees for Jughandle LID (Skinner Fawcett)..... | (\$3,600.00) |
| Attorney fees for A&B Irrigation (Skinner Fawcett)..... | (\$4,637.50) |
| Lemhi Basin Protest Costs - (Attorney General's Office)..... | (\$24,238.50) |
| Weiser Galloway Study - US Army Corps of Engineers..... | (\$1,555,450.71) |
| Boise River Storage Feasibility Study..... | (\$333,000.00) |
| Geotech Environmental (Transducers)..... | (\$6,402.61) |
| Priest Lake Improvement Study (16-Mar-16)..... | (\$370,393.26) |
| Treasureton Irrigation Ditch Co..... | (\$5,000.00) |
| Mountain Home AFB Water Sustainability Project (29514) | |
| Legislative Appropriation 2014, HB 479 Sec 1 and 2..... | \$4,000,000.00 |
| JR Simplot - WR Purchase..... | (\$2,500,000.00) |
| LeMoyne Appraisal LLC..... | (\$10,500.00) |
| IWRB WSB Lease Application..... | (\$750.00) |
| Integrated Delivery Solutions - Mark Alpert..... | (\$34,459.18) |
| Brown & Caldwell - Owner's Advisor..... | (\$1,218,298.11) |
| SPF Engineering - WR Transfer..... | (\$118,715.75) |
| Skinner-Fawcett - Bond Counsel..... | (\$31,602.41) |
| Pillsbury, Winthrop, & Shaw - DBO Counsel..... | (\$79,839.30) |
| Project Costs (mailings, travel, teleconference calls)..... | (\$1,769.91) |
| Publishing Costs..... | (\$1,648.16) |
| Water District 02 Assessments..... | (\$2,417.18) |
| Balance for Mountain Home AFB Water Sustainability Project..... | \$0.00 |
| Galloway Dam & Reservoir Project (29517) | |
| Legislative Appropriation 2014, HB 479 Sec 1 and 2..... | \$2,000,000.00 |
| Galloway Dam & Reservoir Project Costs (HB 479)..... | (\$124,649.52) |
| Balance Galloway Dam & Reservoir Project..... | \$1,875,350.48 |
| Boise River (Arrowrock Enlargement) Feasibility Study (29518) | |
| Legislative Appropriation 2014, HB 479 Sec 1 and 2..... | \$1,500,000.00 |
| Boise River (Arrowrock Enlargement) Feasibility Study Costs (HB479)..... | (\$1,500,000.00) |
| Balance Boise River (Arrowrock Enlargement) Feasibility Study (HB479)..... | \$0.00 |
| Island Park Enlargement (29520) | |
| Legislative Appropriation 2014, HB 479 Sec 1 and 2..... | \$2,500,000.00 |
| Island Park Enlargement Costs (HB 479)..... | (\$174,170.00) |
| Balance Island Park Enlargement (HB 479)..... | \$2,325,830.00 |
| Water Supply Bank Computer Infrastructure (29519) | |
| Legislative Appropriation 2014, HB 479 Sec 1 and 2..... | \$500,000.00 |
| Water Supply Bank Computer Infrastructure Costs (HB 479)..... | (\$497,350.75) |
| Balance Water Supply Bank Computer Infrastructure (HB 479)..... | \$2,649.25 |
| Cash Balance of Legislative Appropriation 2014, HB 479 Sec 1 and 2..... | \$4,203,829.73 |
| Minidoka Dam Enlargement/Teton Dam Replacement Studies (29510) | |
| Legislative Appropriation 2008, SB1511 Sec 2, Minidoka/Teton Studies..... | \$1,800,000.00 |
| Legislative Appropriation 2008, SB1511 Sec 2, Minidoka Studies Expenditures..... | (\$1,229,460.18) |
| Balance for Minidoka Dam Enlargement/Teton Dam Replacement Studies..... | \$570,539.82 |
| Priest Lake Water Management Project (29521) | |
| Legislative Appropriation (2018, HB 677 Sec 5)..... | \$2,400,000.00 |
| Legislative Approval (2018, HB 677 Sec 6)..... | \$2,419,580.50 |
| Bonner County Contribution..... | \$160,000.00 |
| Interest Earned State Treasury..... | \$149,280.14 |
| Misc Expenditures..... | (\$420.52) |
| Contract Expenditures - Mott MacDonald (CON01290)..... | (\$1,092,420.99) |
| Balance for Priest Lake Water Management Project..... | \$4,036,019.13 |
| Bell Rapids Water Rights Sub-Account | |

| | | |
|---|---------------------|--------------------------|
| Legislative Appropriation 2005, HB392..... | \$21,300,000.00 | |
| Bureau of Reclamation Payments Received..... | \$29,446,335.46 | |
| Remaining balance in ESPA Sub-Account..... | \$341,759.55 | |
| Interest Earned State Treasury..... | \$698,613.04 | |
| Total Bell Rapids Water Rights Sub-Account Revenue..... | | \$51,786,708.05 |
| Bell Rapids Purchase..... | (\$22,041,697.55) | |
| Transfer to General Fund - P&I..... | (\$22,072,052.06) | |
| Payment to US Bank for Alternative Financing Note | (\$7,118,125.86) | |
| Payment for Water District 02 Assessments..... | (\$91,397.61) | |
| Payment for Ongoing Bell Rapids Finance Costs (trustee fees, water bank | (\$6,740.10) | |
| Total Bell Rapids Water Rights Sub-Account Expenditures..... | | (\$51,330,013.18) |
| Cash Balance Bell Rapids Water Rights Sub-Account..... | | \$456,694.87 |
| Committed Funds | | |
| Ongoing Bell Rapids Finance Costs (trustee fees, WD02)..... | \$456,694.87 | |
| TOTAL COMMITTED FUNDS..... | \$456,694.87 | |
| Uncommitted Bell Rapids Water Rights Sub-Account Balance..... | | \$0.00 |
| Pristine Springs Project Sub-Account | | |
| Rental Payments to be Transferred to Secondary Aquifer Fund..... | \$961,675.10 | |
| Loan Interest..... | \$2,582,741.32 | |
| Loan Principal from Magic Valley & North Snake GWD..... | \$5,880,897.66 | |
| Total Pristine Springs Project Revenue to be Transferred..... | | \$9,425,314.08 |
| Total Pristine Springs Project Revenue Transferred to 0129-01..... | (\$5,129,300.00) | |
| Total Pristine Springs Project Revenue Transferred to 0129..... | (\$3,580,000.00) | |
| Total Pristine Springs Project Sub-Account Transfers..... | | (\$8,709,300.00) |
| Cash Balance Pristine Springs Sub-Account..... | | \$716,014.08 |
| Pristine Springs Committed Funds | | |
| Loan Payments to be transferred to 0129..... | \$716,014.08 | |
| TOTAL COMMITTED FUNDS..... | \$716,014.08 | |
| Loans Outstanding for Purchase of PS Water Rights | | |
| Loan to North Snake & Magic Valley GWD..... | \$10,000,000.00 | |
| Payments from North Snake & Magic Valley GWD..... | (\$5,880,897.66) | |
| Total Loans Outstanding..... | \$4,119,102.34 | |
| Uncommitted Pristine Springs Sub-Account..... | | (\$0.00) |
| Rathdrum Prairie CAMP & Treasure Valley CAMP Sub-Account | | |
| Pristine Springs Hydropower and Rental Revenues..... | \$271,672.34 | |
| Interest Earned State Treasury..... | \$573.11 | |
| Rathdrum Prairie CAMP & Treasure Valley CAMP Sub-Account Revenue..... | | \$272,245.45 |
| Spokane River Forum..... | (\$23,000.00) | |
| Treasure Valley Water Quality Summit..... | (\$500.00) | |
| Kootenai-Shoshone Soil & Water Cons. Dist. - Agrimet Station..... | (\$20,000.00) | |
| Rathdrum Prairie-Spokane Valley Aquifer Pumping Study (CON00989)..... | (\$70,000.00) | |
| Idaho Washington Aquifer Collaborative..... | (\$10,000.00) | |
| Rathdrum Prairie CAMP & Treasure Valley CAMP Sub-Account Expenditures..... | | (\$123,500.00) |
| Cash Balance Rathdrum Prairie CAMP & Treasure Valley CAMP Sub-Account..... | | \$148,745.45 |
| Committed Funds | | |
| Spokane River Forum..... | \$0.00 | |
| TOTAL COMMITTED FUNDS..... | \$0.00 | |
| Uncommitted Rathdrum Prairie CAMP & TV CAMP Sub-Account..... | | \$148,745.45 |
| Upper Salmon/CBWTP Sub-Account | | |
| Water Transaction Projects Payment Advances from CBWTP/accord | \$6,665,043.76 | |
| PCSRF Funds for Admin of Non-Diversion Easements on Lemhi River..... | \$207,837.16 | |
| Interest Earned State Treasury..... | \$347,199.41 | |
| Upper Salmon/CBWTP Sub-Account Revenue..... | | \$7,220,080.33 |
| Transfer to Water Supply Bank..... | (\$109,678.19) | |
| Change of Ownership..... | (\$600.00) | |
| Appraisals/Closing Costs..... | (\$13,905.98) | |
| Payments for Water Acquisition | (\$2,948,173.36) | |
| Upper Salmon/CBWTP Sub-Account Expenditures..... | | (\$3,072,357.53) |
| Cash Balance CBWTP Sub-Account..... | | \$4,147,722.80 |
| Committed Funds | | |
| Administration of Non-Diversion Easements on Lemhi River..... | \$137,840.61 | |
| Bayhorse Creek (Peterson Ranch)..... | \$27,317.73 | |
| Badger Creek (OWBP) WSB..... | \$2,389.10 | |
| Beaver Creek (DOT LLP)..... | \$109,430.78 | |
| Big Timber Tyler (Leadore Land Partners)..... | \$388,293.79 | |
| Bohannon Creek DJ (Barbara Stokes)..... | \$844,973.14 | |
| Bohannon Creek BS (Betty Stokes)..... | \$415,520.54 | |
| Canyon Creek/Big Timber Creek (Beyeler)..... | \$366,865.77 | |
| Carmen Creek (Bill Slavin)..... | \$200,711.39 | |
| Carmen Creek (Bruce Slavin)..... | \$125,947.97 | |
| Fourth of July Creek (Defiance Investments)..... | \$14,486.34 | |
| Iron Creek (Koncz)..... | \$169,266.51 | |
| Kenney Creek Source Switch (Gail Andrews)..... | \$21,185.36 | |
| Lemhi - Big Springs (Merrill Beyeler)..... | \$52,340.29 | |
| Lemhi River & Little Springs Creek Kauer (McFarland Livestock Co)..... | \$17,631.52 | |
| Little Springs Creek (Snyder)..... | \$235,821.48 | |
| Lower Eighteenmile Creek (Ellsworth Angus Ranch)..... | \$1,777.78 | |
| Lower Lemhi Thomas (Robert Thomas)..... | \$900.00 | |
| P-9 Bowles (River Valley Ranch)..... | \$227,185.67 | |
| P-9 Charlton (Sydney Dowton)..... | \$15,090.97 | |
| P-9 Dowton (Western Sky LLC)..... | \$180,837.82 | |
| P-9 Elzinga (Elzinga)..... | \$223,681.59 | |
| Patterson-Big Springs PBSC9 (Silver Bit Angus/S Whitworth)..... | \$158,152.47 | |

| | | |
|--|----------------------|--------------------------|
| Pole Creek (Salmon Falls Land)..... | \$612,837.42 | |
| Pratt Creek (Mulkey)..... | \$79,287.64 | |
| Spring Creek (Richard Beard)..... | \$2,070.98 | |
| Spring Creek (Ella Beard)..... | \$3,030.79 | |
| Whitefish (Leadore Land Partners)..... | \$132,035.53 | |
| Total Committed Funds..... | \$4,766,910.98 | |
| Uncommitted CBWTP Sub-Account Balance..... | | (\$619,188.18) |
| Water Supply Bank Sub-Account | | |
| Interest Earned State Treasury..... | \$32,571.00 | |
| Payments received from renters..... | \$4,575,237.48 | |
| Payments made to owners..... | (\$4,048,617.98) | |
| Cash Balance Water Supply Bank Sub-Account..... | | \$559,190.50 |
| Committed Funds: | | |
| Owners Share..... | \$526,619.50 | |
| Total Committed Funds..... | \$526,619.50 | |
| Uncommitted Water Supply Bank Sub-Account Balance..... | | \$32,571.00 |
| Eastern Snake Plain Sub-Account | | |
| Legislative Appropriation 2005, HB392..... | \$7,200,000.00 | |
| Legislative Appropriation 2005, HB392, CREP Program..... | \$3,000,000.00 | |
| Interest Earned State Treasury..... | \$2,071,507.30 | |
| Loan Interest..... | \$277,068.85 | |
| Reimbursement from Commerce & Labor W-Canal..... | \$74,709.77 | |
| Reimbursement from MVGWD & NSGWD-Pristine Springs..... | \$1,000,000.00 | |
| Reimbursement from Water District 1 for Recharge..... | \$159,764.73 | |
| Reimbursement from BOR for Palisades Reservoir..... | \$2,381.12 | |
| Black Canyon Exchange Project Revenues..... | \$23,800.00 | |
| Eastern Snake Plain Sub-Account Revenue..... | | \$13,809,231.77 |
| Installment payments to Bell Rapids Irr Co..... | (\$3,375,180.00) | |
| Interest Credit due to Bureau of Reclamation (Part of Fourth Installment) .. | (\$19,860.45) | |
| Pristine Springs Project Costs..... | (\$6,863.91) | |
| Palisades (FMC) Storage Costs..... | (\$3,522,608.25) | |
| W-Canal Project Costs..... | (\$326,834.11) | |
| Black Canyon Exchange Project Costs..... | (\$261,352.00) | |
| 2008-2010 Recharge Conveyance Costs..... | (\$854,064.62) | |
| Additional recharge projects preliminary development..... | (\$7,919.75) | |
| Transfer to Bell Rapids Sub Account..... | (\$341,759.55) | |
| Transfer to Pristine Springs Sub Account..... | (\$1,000,000.00) | |
| Transfer to Priest Lake Sub-Account (2018 HB 677, Sec 6)..... | (\$2,419,580.50) | |
| Eastern Snake Plain Sub-Account Expenditures..... | | (\$12,136,023.14) |
| Cash Balance Eastern Snake Plain Sub-Account..... | | \$1,673,208.63 |
| Loans and Other Commitments | | |
| Commitment - Additional recharge projects preliminary development..... | \$337,594.00 | |
| Commitment - Palasades Storage O&M..... | \$3,221.64 | |
| Commitment - Black Canyon Exchange Project (fund with ongoing revenue) | \$442,252.95 | |
| Total Loans and Other Commitments..... | \$783,068.59 | |
| Eastern Snake Plain Sub-Account Balance after Commitments..... | | \$890,140.04 |
| CREP Loans Outstanding: | | |
| American Falls-Aberdeen GWD (CREP)..... | \$36,140.40 | |
| Bonneville Jefferson GWD (CREP)..... | \$25,669.18 | |
| Magic Valley GWD (CREP)..... | \$34,596.98 | |
| North Snake GWD (CREP)..... | \$0.00 | |
| TOTAL ESP CREP LOANS OUTSTANDING..... | \$96,406.56 | |
| Uncommitted Eastern Snake Plain Sub-Account Balance..... | | \$793,733.48 |
| Dworshak Hydropower Project | | |
| Power Sales & Other..... | \$11,718,498.73 | |
| Interest Earned State Treasury..... | \$885,867.27 | |
| Total Dworshak Project Revenue..... | | \$12,604,366.00 |
| Transferred to 1st Security Trustee Account..... | \$148,542.63 | |
| Construction not paid through bond issuance..... | \$226,106.83 | |
| First Security Fees..... | \$314,443.35 | |
| Operations & Maintenance..... | \$3,051,675.36 | |
| Powerplant Repairs..... | \$180,409.72 | |
| Bond payoff..... | \$391,863.11 | |
| Capital Improvements..... | \$318,366.79 | |
| FERC Payments..... | \$126,945.85 | |
| Total Dworshak Project Expenditures..... | | (\$4,758,353.64) |
| Cash Balance Dworshak Hydropower Project..... | | \$7,846,012.36 |
| Dworshak Project Committed Funds | | |
| Emergency Repair/Future Replacement Fund..... | \$2,151,244.53 | |
| FERC Fee Payment Fund..... | \$0.00 | |
| Total Dworshak Project Committed Funds..... | \$2,151,244.53 | |
| Uncommitted Dworshak Hydropower Project Sub-Account Balance..... | | 5,694,767.83 |
| TOTAL..... | | \$31,543,046.76 |
| Loans Outstanding: | Amount Loaned | Principal Balance |
| A&B Irrigation District (Pipeline & Pumping Plant, Dec)..... | \$3,500,000.00 | \$2,828,441.07 |
| A&B Irrigation District (Pipeline & Pumping Plant, Sept)..... | \$3,500,000.00 | \$2,969,761.84 |
| Bee Line Water Association (Sep 23, 2014; System Improvements)..... | \$600,000.00 | \$584,615.41 |
| Canyon County Drainage District No. 2 (28-Nov-12; Drain tile pipeline repla | \$35,000.00 | \$12,396.42 |
| Chaparral Water Association (21-Jan-11; Well deepening & improvement)... | \$68,000.00 | \$6,856.77 |
| Clearview Water Company..... | \$50,000.00 | \$26,899.32 |
| Consolidated Irrigation Company (July 20, 2012; pipeline project)..... | \$500,000.00 | \$429,479.93 |

| | | | |
|--|----------------|----------------|------------------------|
| Dalton Water Association..... | \$1,036,900.00 | \$801,147.45 | |
| Evans Water Corporation & HOA..... | \$20,000.00 | \$15,260.86 | |
| Foothill Ranch Homeowners Association (7-oct-11; well rehab)..... | \$150,000.00 | \$84,366.58 | |
| Goose Lake Reservoir Corp..... | \$320,000.00 | \$275,815.80 | |
| Idaho Ground Water Appropriators (IGWA)..... | \$3,208,115.35 | \$1,112,243.47 | |
| Jefferson Irrigation Company (9-May-2008 Well Replacement)..... | \$81,000.00 | \$0.00 | |
| Last Chance Canal Company (14-July-2015, diversion dam rebuild)..... | \$2,500,000.00 | \$1,883,428.89 | |
| Lindsay Lateral Association (Engineering Design Project & Pipeline Study)... | \$19,700.00 | \$5,838.02 | |
| Marsh Center Irrigation Company (13-May-05; Hawkins Dam)..... | \$236,141.00 | \$9,679.08 | |
| Marysville Irrigation Company (9-May-08, Pipeline Project Phase 2)..... | \$1,100,000.00 | \$186,924.57 | |
| Milner Irrigation District (pipeline replacement)..... | \$2,000,000.00 | \$1,788,788.88 | |
| North Fremont Canal Company (Pipeline Project Phase 3)..... | \$4,300,000.00 | \$3,203,120.63 | |
| North Side Canal Company (Phase 1 - canal rehab project)..... | \$1,846,092.61 | \$1,619,931.76 | |
| North Side Canal Company (Phase 2 & 3 - canal rehab project)..... | \$2,711,115.08 | \$2,534,910.90 | |
| Outlet Water Association (22-Jan-16; new well & improvements)..... | \$100,000.00 | \$77,750.03 | |
| Pinehurst Water District (23-Jan-15)..... | \$100,000.00 | \$37,755.72 | |
| Point Springs Grazing Association (July 20, 2012; stock water pipeline)..... | \$48,280.00 | \$22,373.06 | |
| Producers Irrigation Company..... | \$102,127.50 | \$29,118.74 | |
| St. Johns Irrigating Company (14-July-2015; pipeline project)..... | \$1,417,905.22 | \$1,241,715.87 | |
| Sunset Heights Water District (17-May-13; Exchange water project)..... | \$48,000.00 | \$9,962.26 | |
| Twin Lakes Canal Company (Winder Lateral Pipeline Project)..... | \$500,000.00 | \$132,221.75 | |
| Valley County Local Improvement District No. 1/Jughandle HOA (well project) | \$907,552.00 | \$432,335.40 | |
| TOTAL LOANS OUTSTANDING..... | | | \$22,363,140.48 |
| Loans and Other Funding Obligations: | | | |
| Senate Bill 1511 - Teton Replacement and Minidoka Enlargement Studies..... | | \$570,539.82 | |
| Weiser-Galloway Study (28-May-10)..... | | \$444,549.29 | |
| Milner Irrigation District (pipeline replacement)..... | | \$211,211.12 | |
| North Fremont Canal Company..... | | \$500,000.00 | |
| TOTAL LOANS AND OTHER FUNDING OBLIGATIONS..... | | | \$1,726,300.23 |
| Uncommitted Funds..... | | | \$7,453,606.05 |
| TOTAL..... | | | \$31,543,046.76 |

(1) Actual amount needed may vary depending on final determination of water actually purchased and interest income received.

Idaho Water Resource Board
Sources and Applications of Funds
as of June 30, 2020
WATER MANAGEMENT ACCOUNT

| | | |
|---|------------------|---------------------|
| Original Appropriation (1978)..... | \$1,000,000.00 | |
| Transfer funds to General Account 1101(HB 130, 1983)..... | (\$500,000.00) | |
| Legislative Appropriation (6/29/1984)..... | \$115,800.00 | |
| Legislative Appropriation (SB1239, 2001)..... | \$200,000.00 | |
| Interest Earned..... | \$123,230.27 | |
| Filing Fee Balance..... | \$2,633.31 | |
| Water Supply Bank Receipts..... | \$841,803.07 | |
| Bond Fees..... | \$277,254.94 | |
| Funds from DEQ and IDOC for Glenns Ferry Water Study..... | \$10,000.00 | |
| Legislative Appropriation (HB988, 1994)..... | \$75,000.00 | |
| Reverted to General Account 6/30/95, (HB988, 1994)..... | (\$35,014.25) | |
| Legislative Appropriation (SB1260, 1995, Aquifer Recharge, Caribou Dam)..... | \$1,000,000.00 | |
| Legislative Appropriation (SB1239, 2001, Sugarloaf Aquifer Recharge Project)..... | \$60,000.00 | |
| Reverted to General Fund 1/22/19, (SB1239, 2001, Sugarloaf Aquifer Recharge Project)..... | (\$4,046.31) | |
| Legislative Appropriation (HB 843 Sec 6, 2004, ESPA Settlement Water Rentals)..... | \$520,000.00 | |
| Legislative Appropriation (SB1496, 2006, ESP Aquifer Management Plan)..... | \$300,000.00 | |
| Legislative Appropriation (HB 320, 2007, ESP Aquifer Management Plan)..... | \$849,936.99 | |
| Lemhi River Water Right Appraisals..... | (\$31,000.00) | |
| Legislative Audits..... | (\$10,645.45) | |
| IWRB Appraisal Study (Charles Thompson)..... | (\$5,000.00) | |
| Western States Water Council Annual Dues..... | (\$7,500.00) | |
| Transfer to/from Revolving Development Account..... | (\$317,253.80) | |
| Recharge Projects..... | (\$11,426.88) | |
| Grants Disbursed..... | (\$1,632,755.21) | |
| Obligated 1994 (HB988)..... | (\$39,985.75) | |
| SB1260, Aquifer Recharge..... | (\$947,000.00) | |
| SB1260, Soda (Caribou) Dam Study..... | (\$53,000.00) | |
| Sugarloaf Aquifer Recharge Project (SB1239, 2001)..... | (\$55,953.69) | |
| ESPA Settlement Water Rentals (HB 843, 2004)..... | (\$504,000.00) | |
| ESP Aquifer Management Plan (SB1496, 2006)..... | (\$300,000.00) | |
| ESP Aquifer Management Plan (HB320, 2007)..... | (\$801,077.75) | |
| CASH BALANCE..... | | \$119,999.49 |

Large Projects Program Sub-Account

| | | |
|---|-----------------|------------------------|
| Legislative Appropriation (HB 285, Sec 1, 2019)..... | \$20,000,000.00 | |
| Interest Earned State Treasury..... | \$459,599.18 | |
| Total Revenue for Large Projects Program Sub-Account..... | | \$20,459,599.18 |
| | \$0.00 | |
| | \$0.00 | |
| Total Expenditures for Flood Management Program Sub-Account..... | | \$0.00 |
| Cash Balance for Large Projects Program Sub-Account..... | | \$20,459,599.18 |

Water Quality Collection Program Sub-Account

| | | |
|---|---------------|----------------------|
| Legislative Appropriation (HB 285, Sec 3, 2019)..... | \$200,000.00 | |
| Interest Earned State Treasury..... | \$4,277.56 | |
| Total Revenue for Water Quality Collection Program Sub-Account..... | | \$204,277.56 |
| DOI-USGS Agreement - Mid-Snake River..... | (\$89,000.00) | |
| | \$0.00 | |
| Total Expenditures for Water Quality Collection Program Sub-Account..... | | (\$89,000.00) |
| Cash Balance for Water Quality Collection Program Sub-Account..... | | \$115,277.56 |

Flood Management Program Sub-Account

| | | |
|--|----------------|------------------------|
| Legislative Appropriation (HB 712, Sec 1, 2018, Flood Management Program)..... | \$1,000,000.00 | |
| Legislative Appropriation (HB 285, Sec 3, 2019, Flood Management Program)..... | \$800,000.00 | |
| Interest Earned State Treasury..... | \$24,512.04 | |
| Total Revenue for Flood Management Program Sub-Account..... | | \$1,824,512.04 |
| Grants Disbursed for Leg Approp (HB 712, Sec 1, 2018, Flood Mgmt Pg)..... | (\$830,514.91) | |
| Grants Disbursed for Leg Approp (HB 285, Sec 3, 2019, Flood Mgmt Pg)..... | (\$104,577.13) | |
| Total Expenditures for Flood Management Program Sub-Account..... | | (\$935,092.04) |
| Cash Balance for Flood Management Program Sub-Account..... | | \$889,420.00 |
| TOTAL..... | | \$21,584,296.23 |

Grants and Other Funding Obligations

| | Grant Amount | Expenditures | Remaining Balance |
|--|-------------------|---------------------|-------------------|
| Flood Management Program grants - Year 1 (HB712, Sec 1, 2018) | | | |
| <i>Flood Control District 9 (CON01303).....</i> | <i>90,000.00</i> | <i>(84,851.70)</i> | <i>5,148.30</i> |
| <i>Blaine County (CON01304).....</i> | <i>121,331.00</i> | <i>(121,331.00)</i> | <i>0.00</i> |
| <i>Cassia County (CON01305).....</i> | <i>42,336.38</i> | <i>(19,618.16)</i> | <i>22,718.22</i> |
| <i>Flood Control District 10 (CON01306 - New Dry Creek River Bank).....</i> | <i>78,400.00</i> | <i>(62,156.50)</i> | <i>16,243.50</i> |
| <i>Flood Control District 10 (CON01307 - Duck Alley Pit Capture).....</i> | <i>153,550.00</i> | <i>(105,470.43)</i> | <i>48,079.57</i> |
| <i>Flood Control District 10 (CON01308 - Porter & Mulchay Gravel Removal).....</i> | <i>38,808.00</i> | <i>(35,250.77)</i> | <i>3,557.23</i> |
| <i>Clearwater Soil & Water Conservation Dist (CON01309).....</i> | <i>155,220.00</i> | <i>(155,219.00)</i> | <i>1.00</i> |
| <i>Flood Control District 10 (CON01310 - Leighton & Wells Gravel Removal).....</i> | <i>22,000.00</i> | <i>(22,000.00)</i> | <i>0.00</i> |
| <i>Flood Control District 11 (CON01311).....</i> | <i>57,675.00</i> | <i>(55,100.00)</i> | <i>2,575.00</i> |

| | | | |
|--|-----------------------|------------------------|-------------------------------|
| <i>Twin Lakes/Flood Control Dist 17 (CON01312)</i> | <i>7,750.00</i> | <i>(7,750.00)</i> | <i>0.00</i> |
| <i>Twin Falls Canal Company (CON01327)</i> | <i>85,340.00</i> | <i>(85,340.00)</i> | <i>0.00</i> |
| Nez Perce Soil & Water Conservation Dist (CON01328)..... | 115,460.00 | (44,297.35) | 71,162.65 |
| <i>Riverside Village HOA (CON01329)</i> | <i>6,025.00</i> | <i>(6,025.00)</i> | <i>0.00</i> |
| <i>City of Pocatello (CON01330)</i> | <i>26,105.00</i> | <i>(26,105.00)</i> | <i>0.00</i> |
| Uncommitted from HB712 Year 1..... | (95,747.82) | | (95,747.82) |
| Total Committed Balance for Year 1 | 904,252.56 | (830,514.91) | 73,737.65 |
| Flood Management Program grants - Year 2 (HB285, Sec 3, 2019) | | | |
| <i>City of Boise (CON01396)</i> | <i>6,371.00</i> | <i>(6,371.00)</i> | <i>0.00</i> |
| Blaine County (CON01397)..... | 100,000.00 | | 100,000.00 |
| <i>Board of Controls Irrigation (CON01398)</i> | <i>59,050.00</i> | <i>(57,827.50)</i> | <i>1,222.50</i> |
| Clearwater Soil & Water Conservation District (CON01399)..... | 190,492.37 | | 190,492.37 |
| Clearwater Soil & Water Conservation District (CON01400)..... | 72,727.39 | | 72,727.39 |
| City of Hailey (CON01401)..... | 50,000.00 | (19,841.33) | 30,158.67 |
| Flood Control District No. 10 (CON01402)..... | 160,000.00 | | 160,000.00 |
| <i>Idaho Soil and Water Conservation District (CON01403) CANCELLED</i> | <i>159,436.00</i> | | <i>159,436.00</i> |
| <i>Idaho Soil and Water Conservation District (CON01404)</i> | <i>21,619.50</i> | <i>(20,537.30)</i> | <i>1,082.20</i> |
| Blaine County (CON01405)..... | 50,000.00 | | 50,000.00 |
| Uncommitted from HB285 Year 2..... | (161,740.70) | | (161,740.70) |
| Total Committed Balance for Year 2 | 707,955.56 | (104,577.13) | 603,378.43 |
| Committed for Flood Management Grants | \$1,612,208.12 | (\$935,092.04) | \$677,116.08 |
| Other Funding Obligations | | | |
| ESPA Settlement Water Rentals (HB 843, 2004)..... | | \$16,000.00 | |
| Legislative Appropriation (HB 285, Sec 1, 2019)..... | | \$20,000,000.00 | |
| Legislative Appropriation (HB 285, Sec 3, 2019)..... | | \$200,000.00 | |
| Committed for Other Funding Obligations | | \$20,216,000.00 | |
| Uncommitted Funds..... | | | \$691,180.15 |
| TOTAL COMMITTED FUNDS BALANCE | | | <u>\$20,893,116.08</u> |

Bold and italicized indicates that project is completed and entity has received final payment

Memorandum

To: Idaho Water Resource Board
From: Brian Patton
Date: July 22, 2020
Re: Mountain Home Air Force base Sustainable Water Project



REQUIRED ACTION: *None at this time*

Sam Eaton with the Governor's office will provide an update on the current status of discussions with the Air Force regarding the Mountain Home Air Force base Sustainable Water Project.

Memorandum

To: Idaho Water Resource Board

From: Craig Tesch

Date: July 17, 2020

Re: Raft River Basin Hydrologic Project Update and Funding



REQUIRED ACTION: Action required at the July 30, 2020 IWRB meeting.

Attached is a resolution for the IWRB to consider at the July 30 meeting. The resolution is for entering into an agreement with the Department of Energy (DOE) to accept \$832,000 in funding for two Raft River project tasks to be completed over the next three years: drilling monitoring wells and collecting water quality samples.

I. Background

The Raft River basin in southeastern Idaho is a tributary basin to the eastern Snake Plain. Water level declines in the aquifer led to the establishment of the Raft River Critical Ground Water Area in 1963. The Idaho Department of Water Resources (IDWR) received \$203,500 from the IWRB in September 2019 for the first year of a four-year comprehensive study of surface and groundwater resources in the Raft River basin. Subsequently, IDWR submitted a \$1.5 million funding proposal in December 2019 to DOE through the Supplemental Environmental Project (SEP) process for the remaining three years. IDWR was awarded \$832,000 by DOE in July 2020 to complete two of the six tasks included in the proposal. These two tasks include the drilling and instrumentation of 12 monitoring wells, and conducting a water quality sampling campaign in the basin. IDWR oversees the project with the help of the Idaho Geologic Survey (IGS) and a field contractor.

IDWR and IGS are self-performing and exploring options to fund the major remaining project tasks: surface water data collection and creation of a water budget. To address the surface water component, IDWR began funding two stream gages in June through the USGS, and IDWR will self-perform spot measurements and seepage runs via the IDWR field contractor. The water budget/hydrogeologic framework component remains unfunded, as do the final two years of the IDWR field contractor.

II. Project Summary – Year 1

The objectives of the first year are to compile and assess existing data, develop a data repository, identify data gaps for future project phases, and expand the IDWR monitoring network with existing wells in the basin. In November 2019, the IWRB entered into agreements with the IGS for \$107,500 and the Idaho Water Resources Research Institute for \$96,000 to meet these objectives. A brief report summarizing Year 1 work will be provided in December 2020. Currently, the following Year 1 tasks have been completed:

- Attended WD 143 meeting in Malta on January 28, 2020, to discuss the project with water users
- Compiled and processed GIS layers (precipitation, evapotranspiration, streams, crop cover, and pumping records)

- Data entered 220 well logs into the software Rockworks to create a future geologic model
- Reviewed existing IDWR groundwater network and identified data gaps for drilling new wells
- Prepared surface water diversion datasets from water master reports
- Conducted field surveys and recommended sites for new stream gages and spot measurements
- Reached out to Ormat Technologies Inc. representatives regarding a potential field trip to the geothermal facility

III. Project Summary – All Years

The following table provides a summary of all project tasks and funding.

Green cell = Funding secured or identified. Red cell = Currently unfunded.

| Agency | Summary | IWRB Funds | IDWR Funds | DOE Funds | Total Cost |
|--------|--|------------------|-----------------|------------------|--------------------|
| | Year 1 (12/1/19-12/1/20) | | | | |
| IGS | Data gathering and analysis | \$107,500 | | | |
| IDWR | Contractor: field work and data processing | \$96,000 | | | |
| USGS | Stream gages (2 gages) | | \$25,307 | | |
| | Subtotal | \$203,500 | \$25,307 | | \$228,807 |
| | Year 2 (12/1/20-12/1/21) | | | | |
| USGS | Stream gages – O&M (2 gages) | | \$18,000 | | |
| IDWR | Drilling wells (4 wells, instrumentation, water quality, geophysics) | | | \$275,000 | |
| IDWR | Contractor: field work and data processing | \$96,000 | | | |
| IGS | Water budget and hydrogeologic framework | \$125,000 | | | |
| | Subtotal | \$221,000 | \$18,000 | \$275,000 | \$514,000 |
| | Years 3-4 (12/1/21-12/31/23) | | | | |
| USGS | Stream gages – O&M (2 gages) | | \$36,000 | | |
| IDWR | Drilling wells (8 wells, instrumentation, water quality, geophysics) | | | \$557,000 | |
| IDWR | Contractor: field work and data processing | \$192,000 | | | |
| IGS | Water budget and hydrogeologic framework | \$250,000 | | | |
| | Subtotal | \$442,000 | \$36,000 | \$557,000 | \$1,035,000 |
| | Total | \$866,500 | \$79,307 | \$832,000 | \$1,777,807 |

BEFORE THE IDAHO WATER RESOURCE BOARD

| | | |
|---|---|--------------|
| IN THE MATTER OF THE U.S. DEPARTMENT OF |) | |
| ENERGY IDAHO OPERATIONS OFFICE FUNDING TO |) | |
| SUPPORT THE RAFT RIVER BASIN HYDROLOGIC |) | A RESOLUTION |
| PROJECT |) | |

1 WHEREAS, Governor Otter directed the Idaho Water Resource Board (IWRB) to develop a water
2 sustainability policy and support water sustainability and aquifer stabilization projects across Idaho to
3 address declining groundwater levels, existing or potential conjunctive administration water use conflicts,
4 alternative water supplies and long-term water management needs; and
5

6 WHEREAS, the Eastern Snake Plain Aquifer (ESPA) has been losing approximately 216,000 acre-
7 feet annually from aquifer storage since the 1950's resulting in declining ground water levels in the aquifer
8 and declining spring flows from the aquifer; and
9

10 WHEREAS, the State Water Plan, approved by the 2012 Legislature, recognized that measurement,
11 data collection, quantification and monitoring of Idaho's water supply and use are essential for sound water
12 resource planning, management and administration; and
13

14 WHEREAS, the Sustainability Policy Section of the State Water Plan identifies the need to obtain
15 more accurate water supply, water measurement and forecasting information, and a need to disseminate
16 water supply forecast to water users in cooperation with other federal and state agencies; and
17

18 WHEREAS, the State Water Plan includes a goal to accomplish managed recharge in the ESPA
19 averaging 250,000 acre-feet annually; and
20

21 WHEREAS, the 2016 Idaho Legislature passed and approved Senate Concurrent Resolution 136
22 directing the IWRB to develop the capacity to achieve 250,000 acre-feet of annual average managed
23 recharge to the ESPA by December 31, 2024; and
24

25 WHEREAS, the Raft River Basin contributes tributary underflow to the ESPA, was designated a
26 Critical Ground Water Area in 1963, and is experiencing large groundwater level declines. It contains
27 117,000 acres of agriculture dependent on a sustainable water supply and supports the only operating
28 commercial geothermal power plant in Idaho; and
29

30 WHEREAS, the Idaho Department of Water Resources (IDWR) and the Idaho Geologic Survey
31 developed a four-year proposal for a hydrologic characterization of the Raft River Basin (Raft River Basin
32 Hydrologic Project, "project") and the IWRB funded Year 1 of the project in September 2019 for \$203,500;
33 and
34

35 WHEREAS, the Idaho Department of Environmental Quality (IDEQ) may allow a facility that has
36 been found in violation of an environmental regulation to implement supplemental environmental projects
37 (SEP) in lieu of or to reduce a cash penalty; and
38

39 WHEREAS, the U.S. Department of Energy Idaho Operations Office (DOE) is undertaking SEPs
40 in connection with the settlement of an enforcement action taken by the IDEQ for alleged violations of the
41 requirements of the Hazardous Waste Management Act; and
42

43 WHEREAS, the IWRB previously entered into contracts with DOE in 2017 and 2018 to implement
44 SEPs to drill ESPA monitoring wells and characterize the Big Lost basin; and
45

46 WHEREAS, the IWRB in collaboration with IDWR proposed to DOE a three-year SEP to fund a
47 variety of tasks in the project that include the addition of up to 12 new aquifer monitoring wells in the Raft
48 River basin and the completion of a water quality sampling campaign for a total cost of \$832,000; and
49

50 WHEREAS, IDEQ approved implementation and funding for this DOE SEP in June 2020 in the
51 amount of \$832,000; and
52

53 NOW THEREFORE BE IT RESOLVED that the IWRB authorizes the execution of a contract with
54 DOE for the funding of this SEP; and
55

56 NOW THEREFORE BE IT RESOLVED that the IWRB authorizes its chairman or designee, Brian
57 Patton, to execute the necessary agreements or contracts with DOE to implement the SEP.

DATED this 30th day of July, 2020.

ROGER W. CHASE, Chairman
Idaho Water Resource Board

ATTEST _____
VINCE ALBERDI, Secretary



United States Department of the Interior

BUREAU OF RECLAMATION

Snake River Area Office

230 Collins Road

Boise, ID 83702-4520

July 15, 2020



IN REPLY REFER TO:

SRA-1308

2.2.4.21

VIA ELECTRONIC MAIL ONLY

Mr. Roger Chase
Chairman
Idaho Water Resource Board
322 East Front Street
Boise, ID 83702

Ms. Melanie Paquin
Area Manager
Snake River Area Office
230 Collins Road
Boise, ID 83702

Subject: Boise River Basin Feasibility Study Status Update, Boise Project, Idaho

Dear Mr. Chase and Ms. Paquin:

This status update is being sent in preparation for the Idaho Water Resource Board (IWRB) meeting on July 30, 2020.

The IWRB and the Bureau of Reclamation have partnered to complete a feasibility study of new surface water storage options on the Boise River (Study). The Study initially included an evaluation of small raises of the three large dams on the Boise River system: Anderson Ranch Dam, Arrowrock and Lucky Peak Dams, and is now focused on Anderson Ranch Dam.

Current Status

Recent project activities include:

- June 2020 – Reclamation submitted FY 2021 WIIN Act Request.
- June 22–July 17, 2020 – Department of the Interior Environmental Impact Statement Review Team reviewed the Draft Environmental Impact Statement.
- July 6–10, 2020 – Reclamation and project partners completed a review of the Administrative Draft Feasibility Report.

Ongoing project activities include:

- Reclamation and IWRB initiating a project sub team to plan water right and water contracting processes.

Upcoming project activities include:

- July 24, 2020 – Reclamation to submit Biological Assessment to U.S. Fish and Wildlife Service.
- July 24, 2020 – Reclamation to file Draft Environmental Impact Statement (DEIS) with U.S. Environmental Protection Agency.
- July 31, 2020 – Reclamation to release DEIS with Draft Feasibility Report.
- August 2020 – Reclamation to transmit Draft Feasibility Report to U.S. Office of Management and Budget.

Key Milestones

| | |
|---------------------|--|
| Nov. 2017–Jan. 2019 | Reclamation completed initial screening of the three potential dam raise alternatives and developed the Project Management Plan. |
| July 27, 2018 | IWRB passed a resolution supporting the narrowed focus of the Study to a raise at Anderson Ranch Dam. |
| August 28, 2018 | Reclamation and IWRB hosted a Legislative Infrastructure Tour to discuss large water infrastructure projects in Idaho with representatives from Idaho's Congressional delegation. |
| November 8, 2018 | Reclamation and IWRB hosted an informational public open house on the Study in Boise, Idaho. |
| December 3–7, 2018 | Reclamation conducted a Value Planning Study with a final Accountability Report received in February 2019. |
| December 25, 2018 | Reclamation awarded an Indefinite Delivery/Indefinite Quality contract for architect and engineering services to Sundance-EA Joint Venture (Consultant) to complete the Study and environmental compliance activities. |
| April 30, 2019 | Consultant submitted land, structure, infrastructure, and real estate impact assessment (Rim Analysis) Anderson Ranch Reservoir. |
| June 7, 2019 | IWRB filed a water right permit application for the potential additional storage (Water Right No. 63-34753). |
| June 19, 2019 | Reclamation's Technical Service Center completed feasibility-level design and cost estimates completed for Anderson Ranch Dam raise. |
| August 9, 2019 | Reclamation published the Notice of Intent for an EIS in the Federal Register. |
| August 27–29, 2019 | Reclamation conducted Public Scoping Open Houses in Pine, Boise, and Mountain Home, Idaho. |
| February 3–7, 2020 | Reclamation completed the Design, Estimate, and Construction review of the feasibility-level designs. |
| April 6–10, 2020 | Reclamation completed the Peer Review of the Water Operations Technical Memorandum. |

Key Critical Path Milestones

| | |
|---------------|--|
| July 31, 2020 | DEIS and Draft Feasibility Report release |
| October 2020 | Submit Final Feasibility Report |
| December 2020 | Department of the Interior review and approval of the recommended plan |
| February 2021 | Final EIS release |
| May 2021 | Record of Decision |

Thank you for this opportunity to provide an update on the Boise River Basin Feasibility Study Project. If you have any questions, please contact me at 208-383-2236 or via email at callianneharris@usbr.gov.

Sincerely,

Callianne Harris
Project Manager

Memorandum

To: Idaho Water Resource Board

From: Mike McVay

Date: July 22, 2020

Re: Aquifer Storage



Staff will present an ESPA Aquifer Storage presentation.



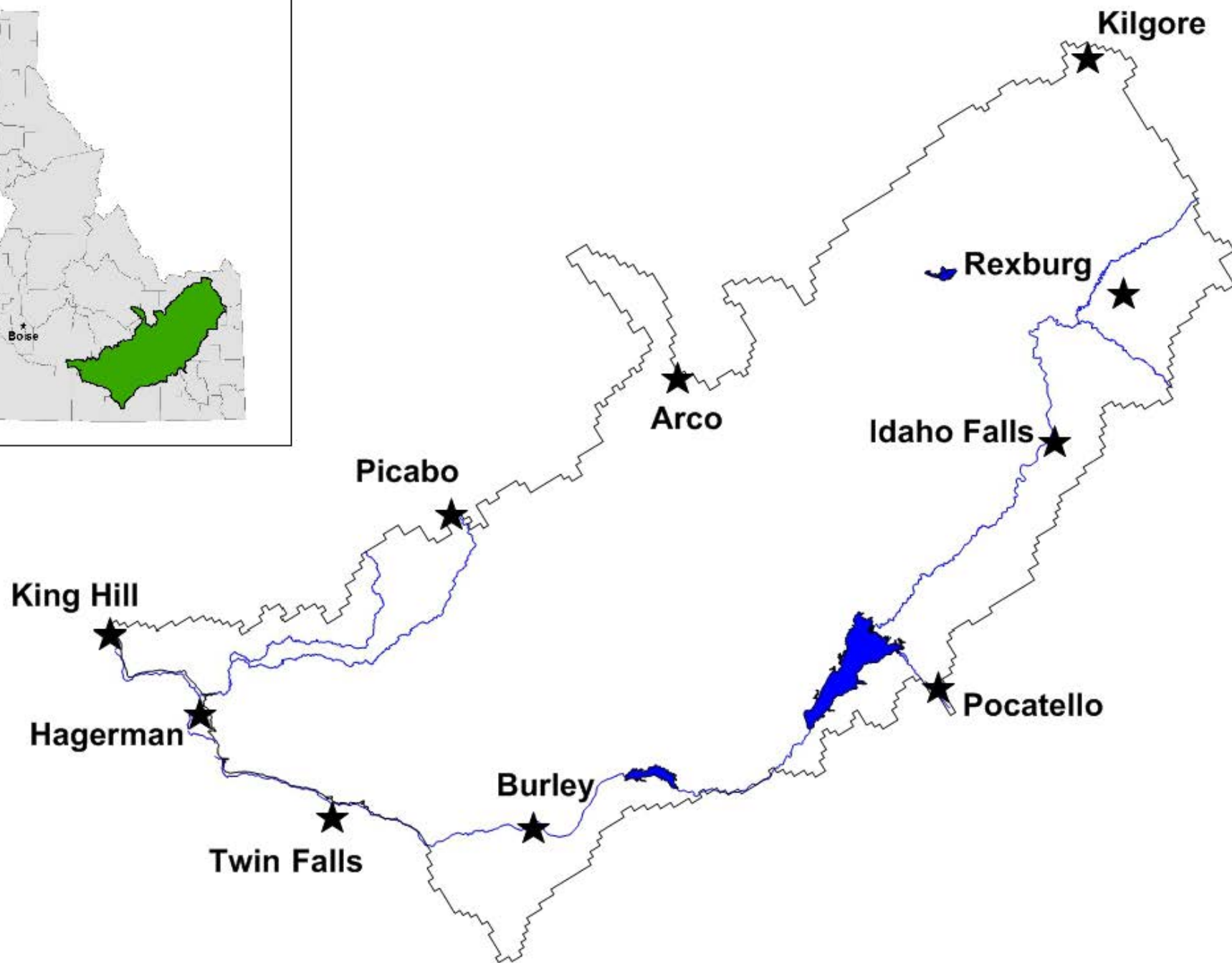
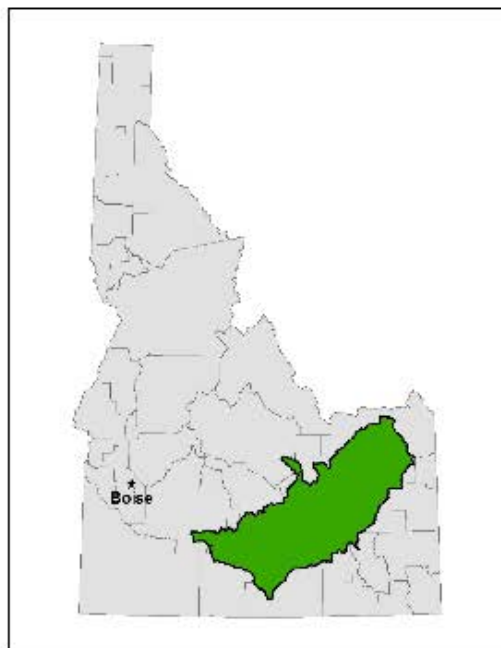
IDAHO
Water Resource Board



ESPA Storage Changes

Presented by Mike McVay, P.E., P.G.

July 30, 2020



Aquifer Water Balance

$$\text{Inflow} - \text{Outflow} = \Delta\text{Storage}$$

ESPA Inflows = Incidental recharge from SW irrigation, Canal Seepage, Perched River Seepage, Tributary Underflow, Precipitation.

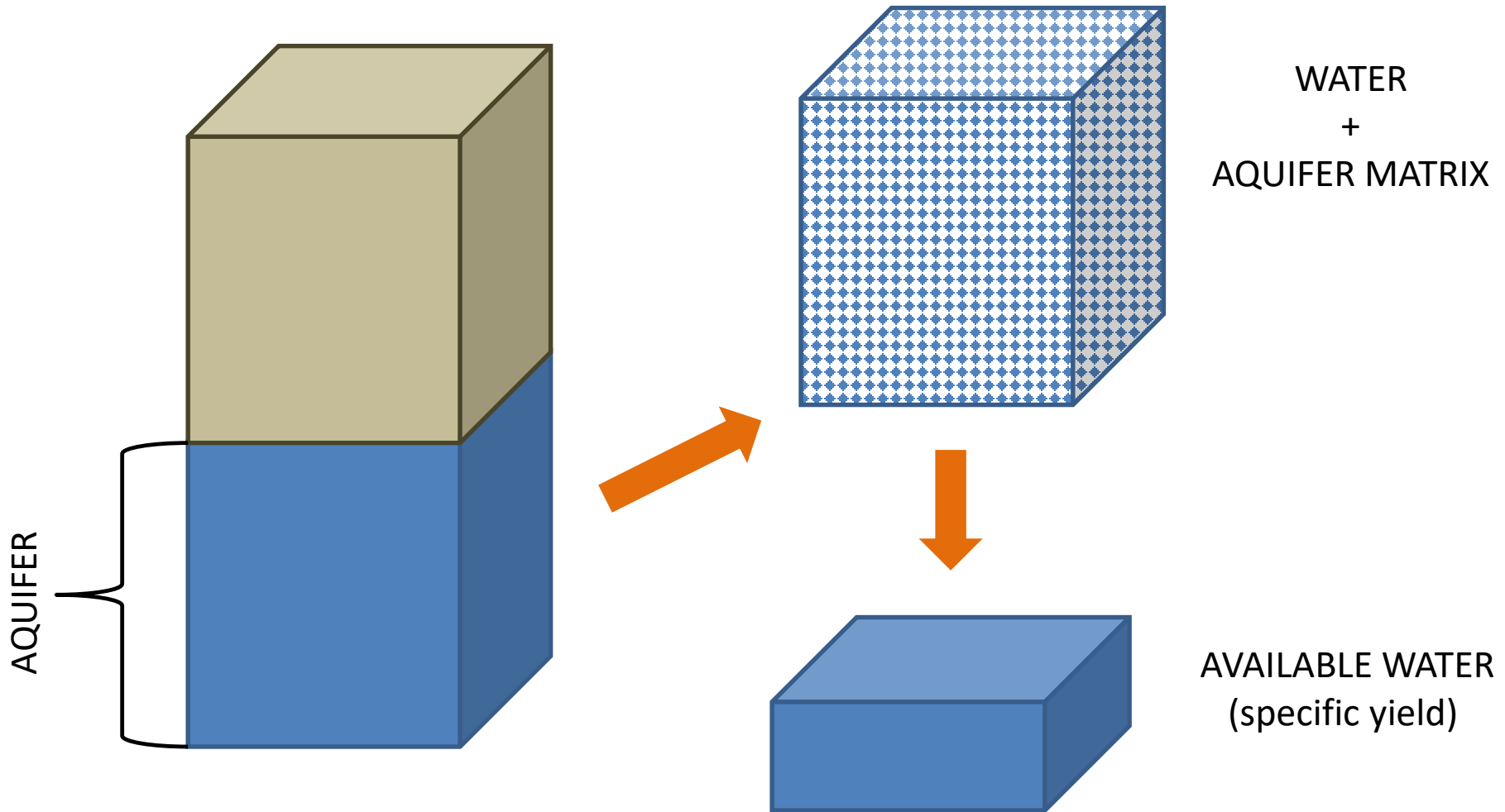
ESPA Outflows = Evapotranspiration, Spring Discharge, Well Pumping

- Requires large investment of time, money and effort.
- A more efficient method of calculating change-in-storage allows us to evaluate both aquifer conditions and aquifer management activities.
- Direct calculation of change-in-storage using water-level measurements.

Using Water-Level Data to Estimate Changes in Aquifer Storage

- Water-level data have been differenced to produce water-level changes at discrete points (at the wells).
- Changes at the wells have been interpolated across the ESPAM2.1 model area to create water-level change maps.
 - The resulting volume represents water and aquifer matrix.
- Specific Yield (S_y) is the ratio of the volume of water that drains from a saturated rock due to gravity to the total volume of the rock.

Specific Yield = Available Water



Using Water-Level Data to Estimate Changes in Aquifer Storage

- Water-level data are differenced to produce water-level changes at discrete points (at the wells).
- Changes at the wells are interpolated across the ESPAM2.1 model area to create water-level change maps.
 - The resulting volume represents water and aquifer matrix.
- ✓ The volumes calculated above are multiplied by the average, calibrated S_y from EPAM2.1 to calculate the change in volume of water.

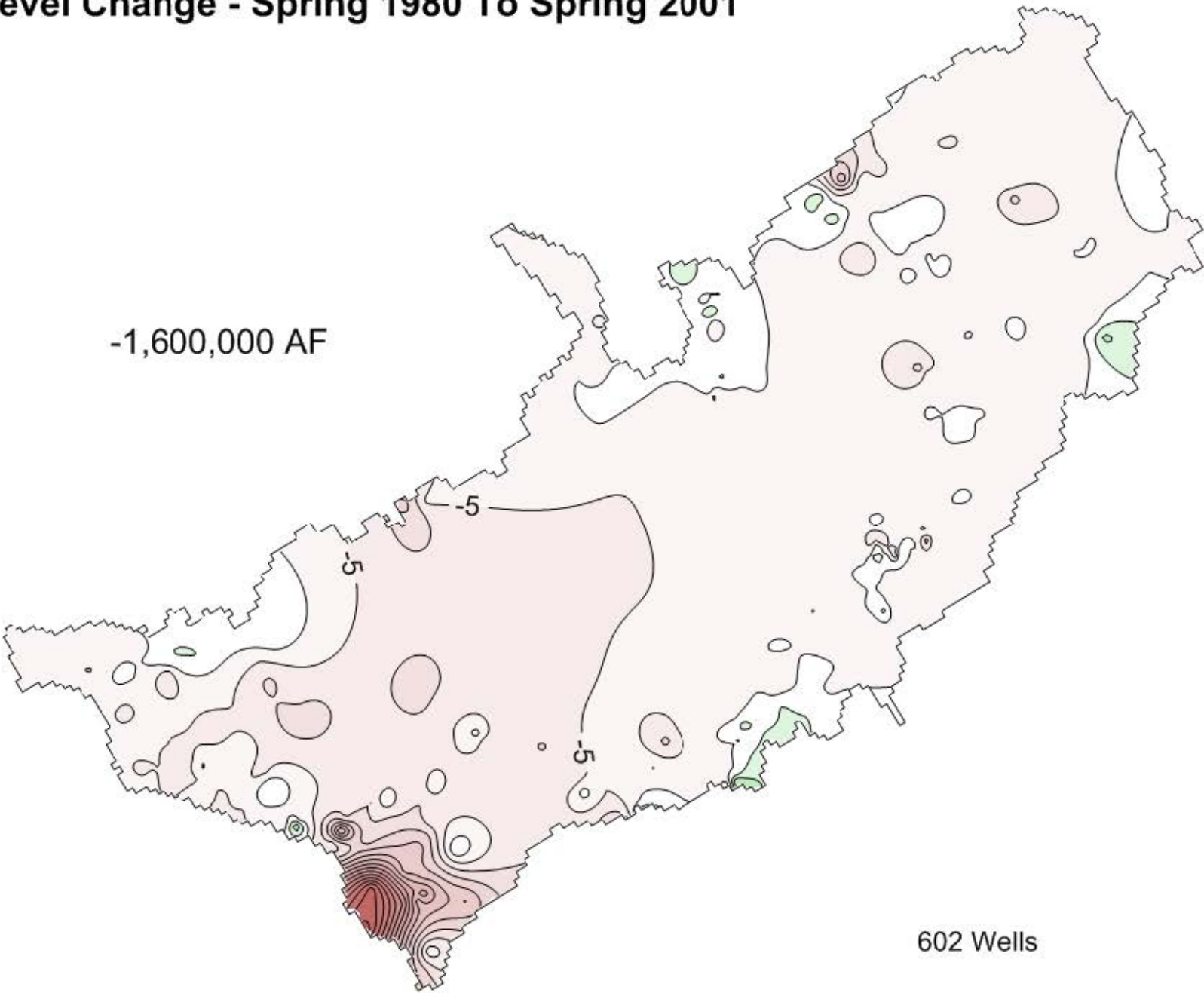
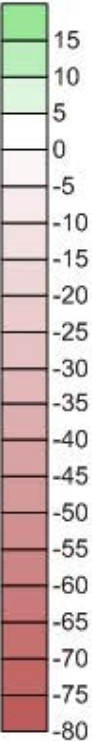
Mass Measurements and Aquifer Storage Changes

- Storage change calculations are based on data collected during mass measurement events.
- Mass measurement events are designed to collect as much data as possible during a brief window of time.
 - Provides a snapshot of the aquifer.
- Previous mass measurement events took place in 1980, 2001, 2002, 2008, 2013, 2018, and are now conducted every 5 years.

Mass Measurement Change Maps

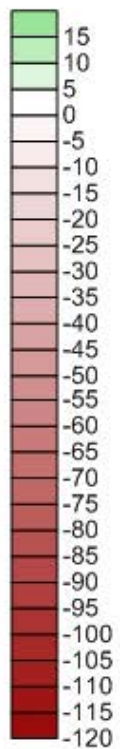
Water Level Change - Spring 1980 To Spring 2001

Water Level
Change (ft)

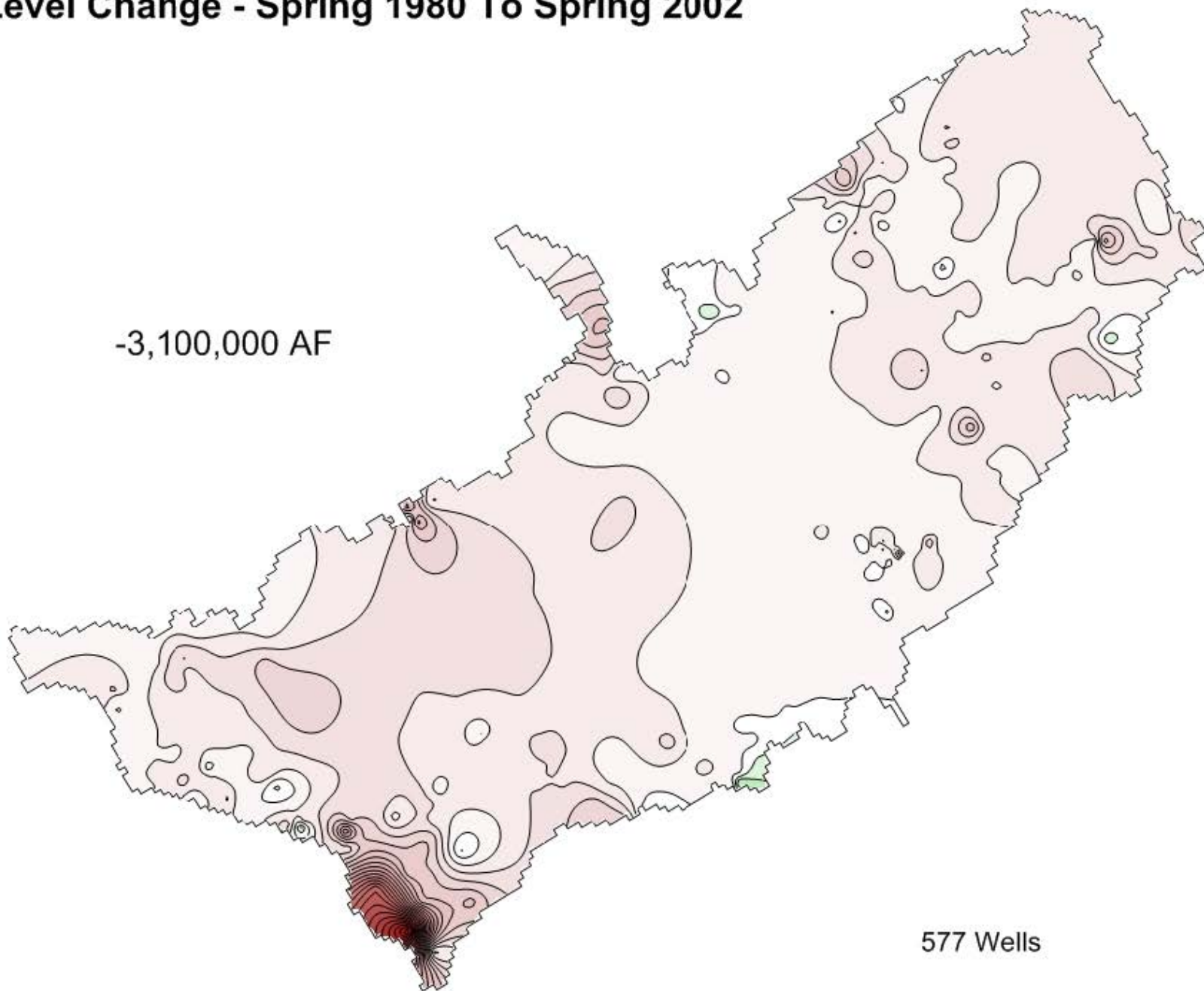


Water Level Change - Spring 1980 To Spring 2002

Water Level
Change (ft)



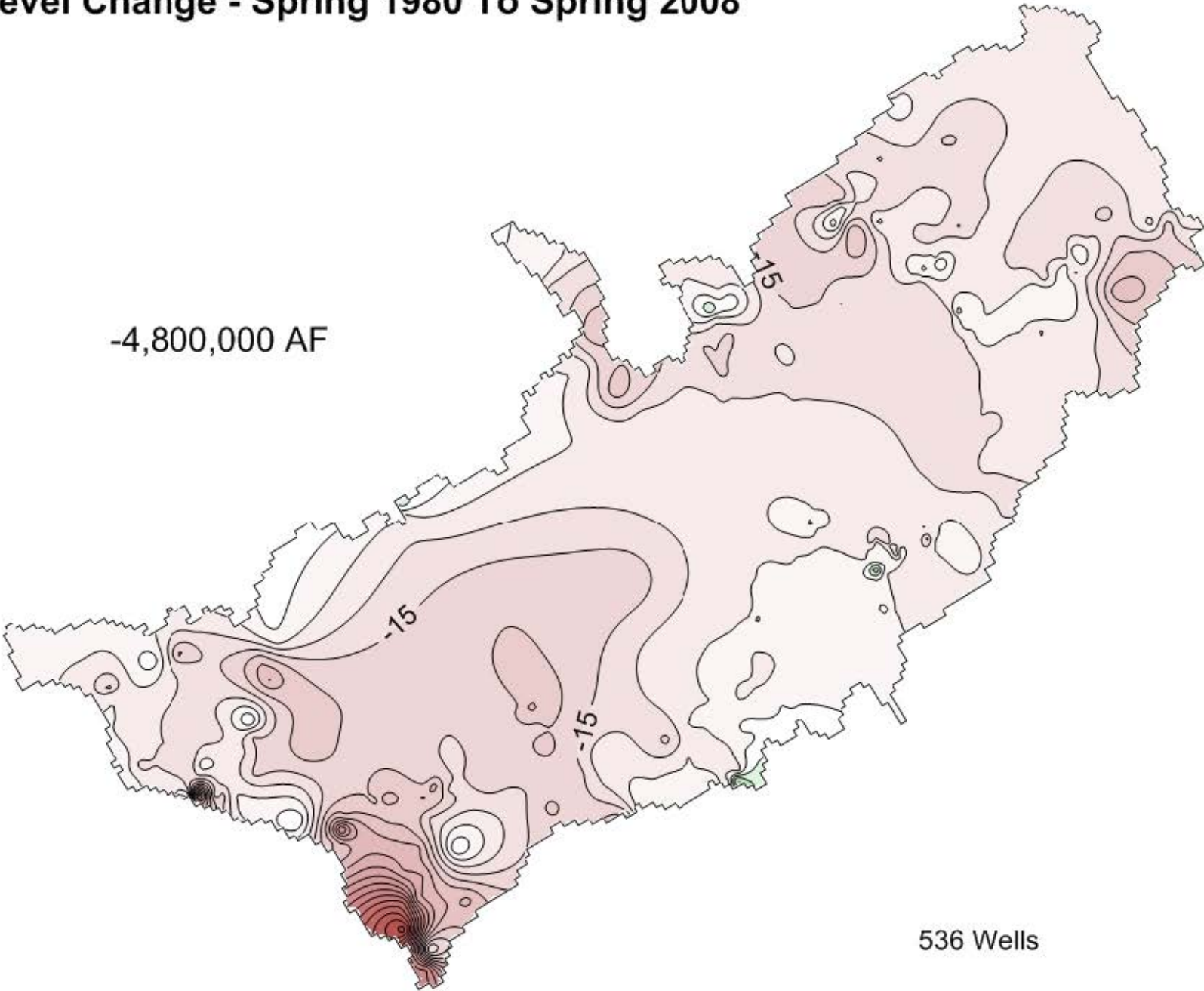
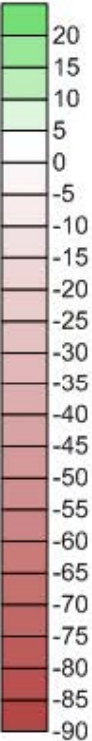
-3,100,000 AF



577 Wells

Water Level Change - Spring 1980 To Spring 2008

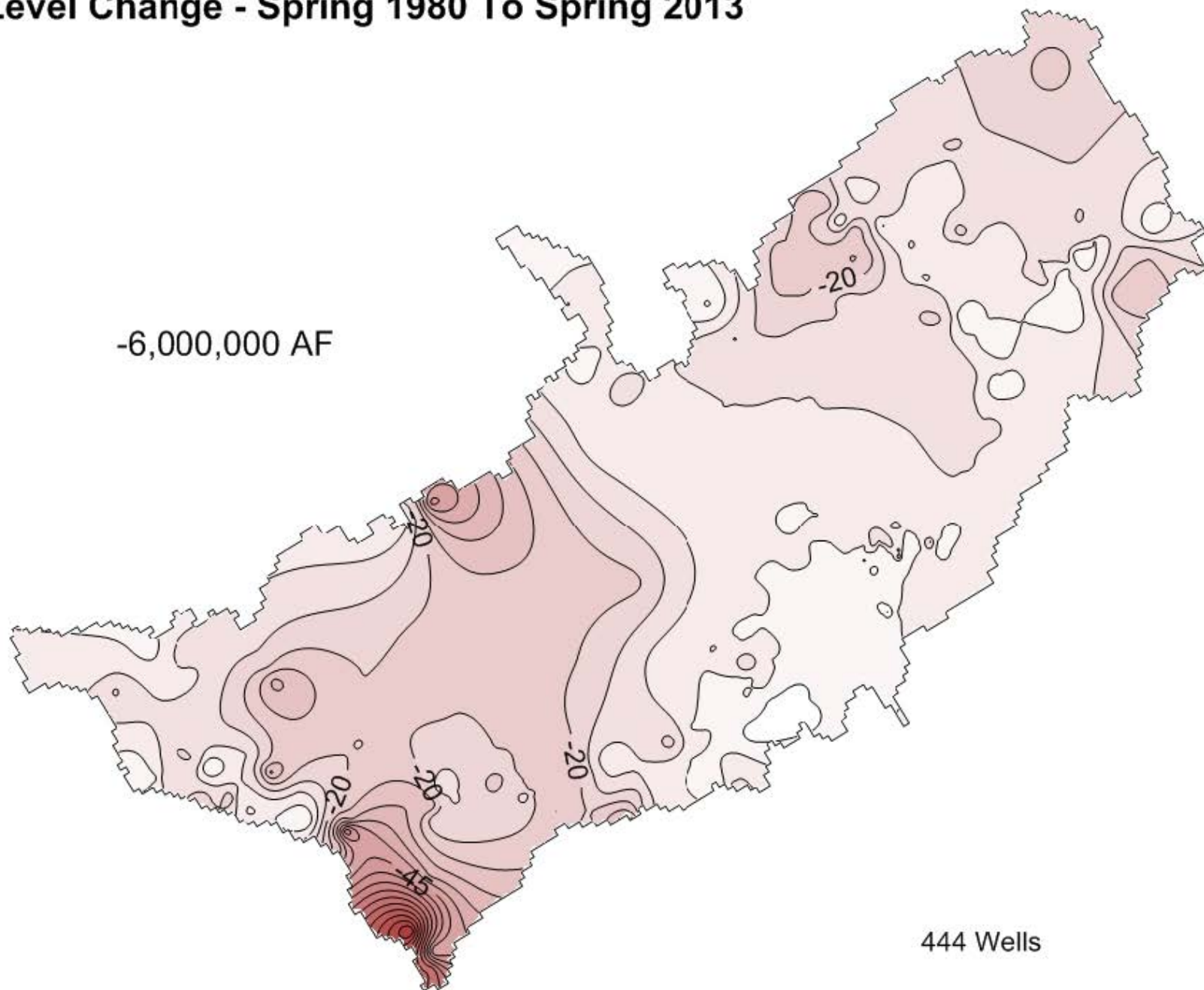
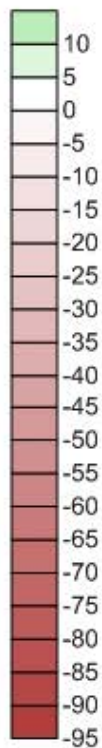
Water Level
Change (ft)



536 Wells

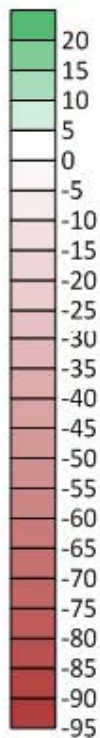
Water Level Change - Spring 1980 To Spring 2013

Water Level
Change (ft)

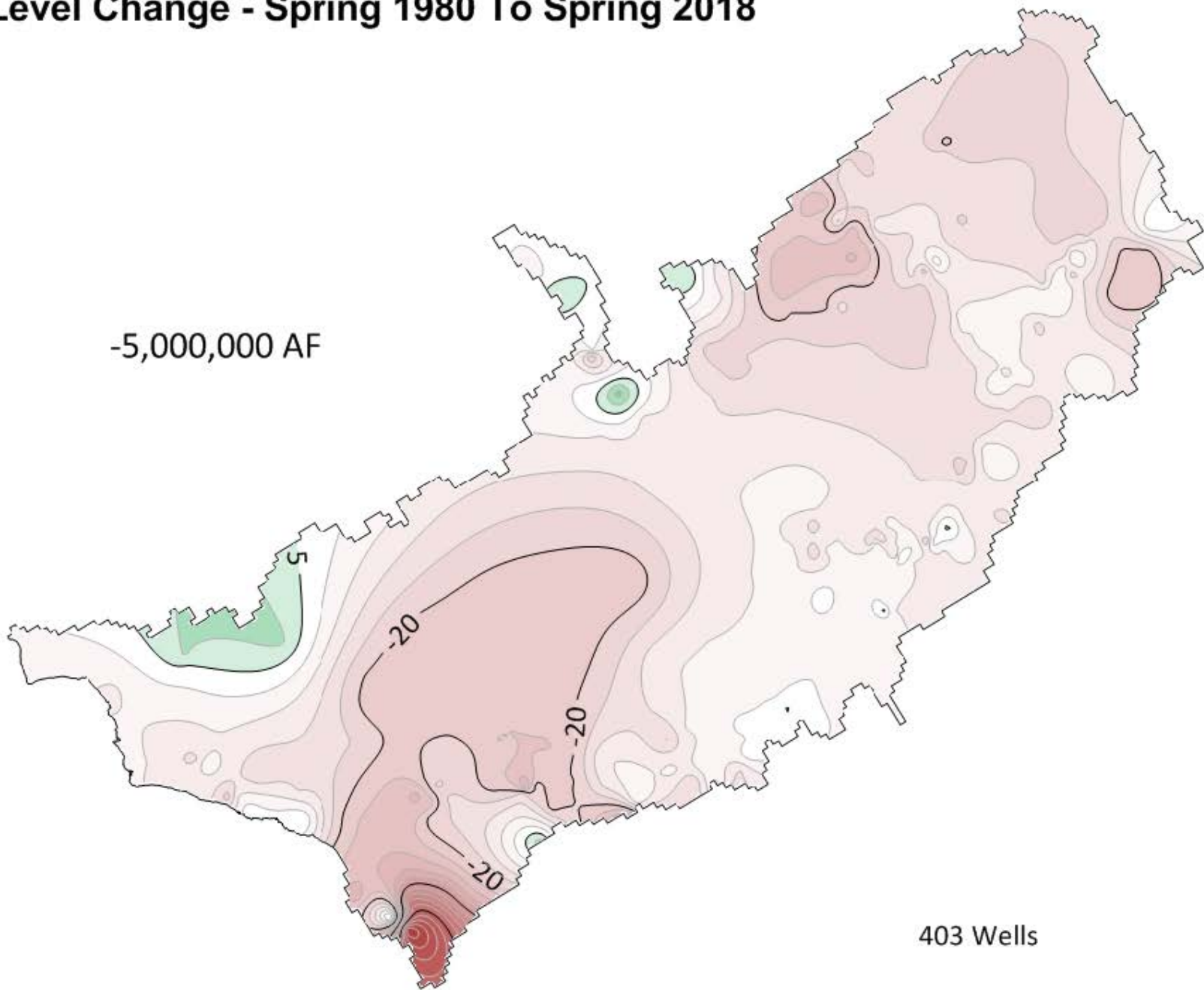


Water Level Change - Spring 1980 To Spring 2018

Water Level
Change (ft)

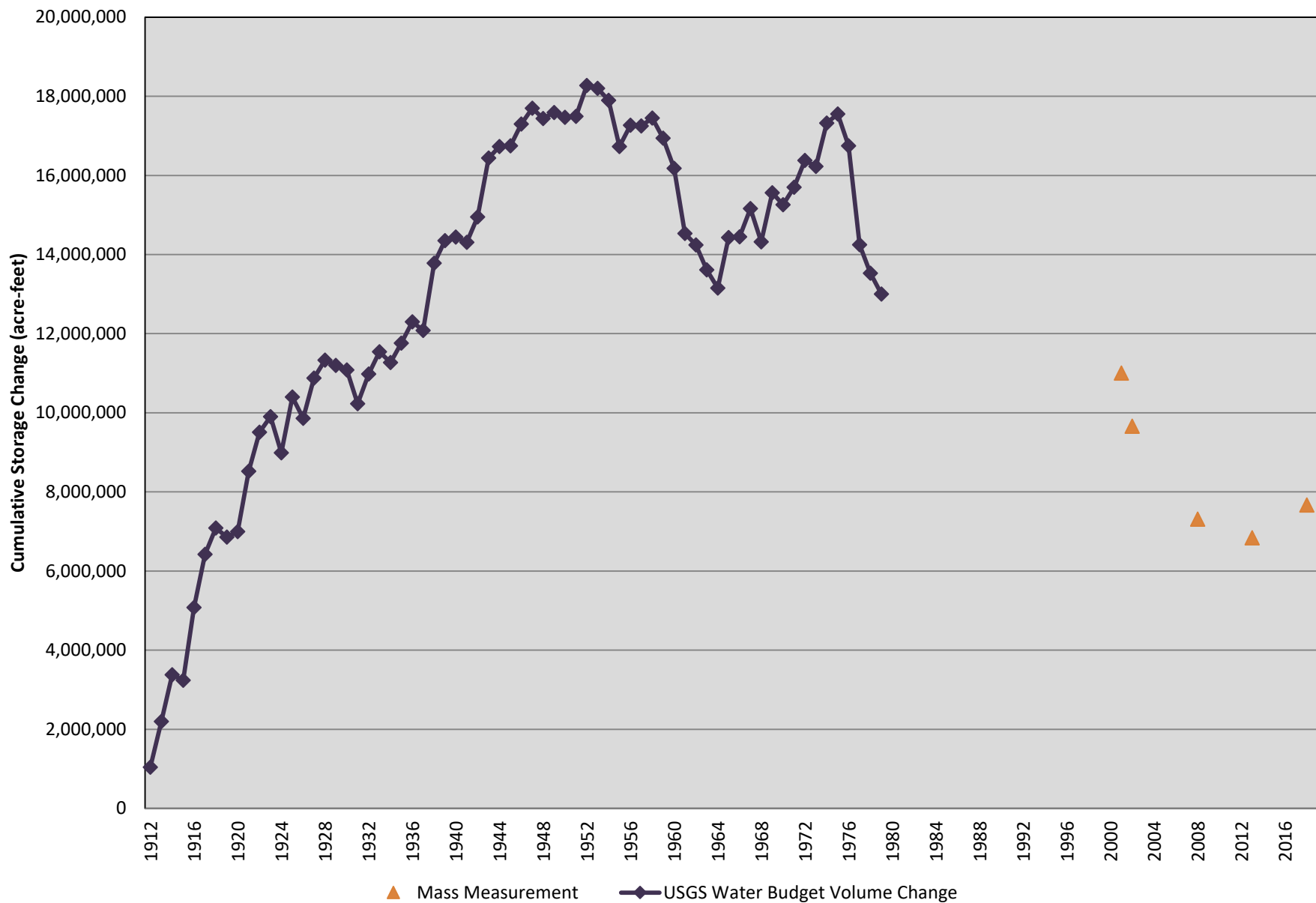


-5,000,000 AF



403 Wells

Changes in Volume of Water Stored in the ESPA



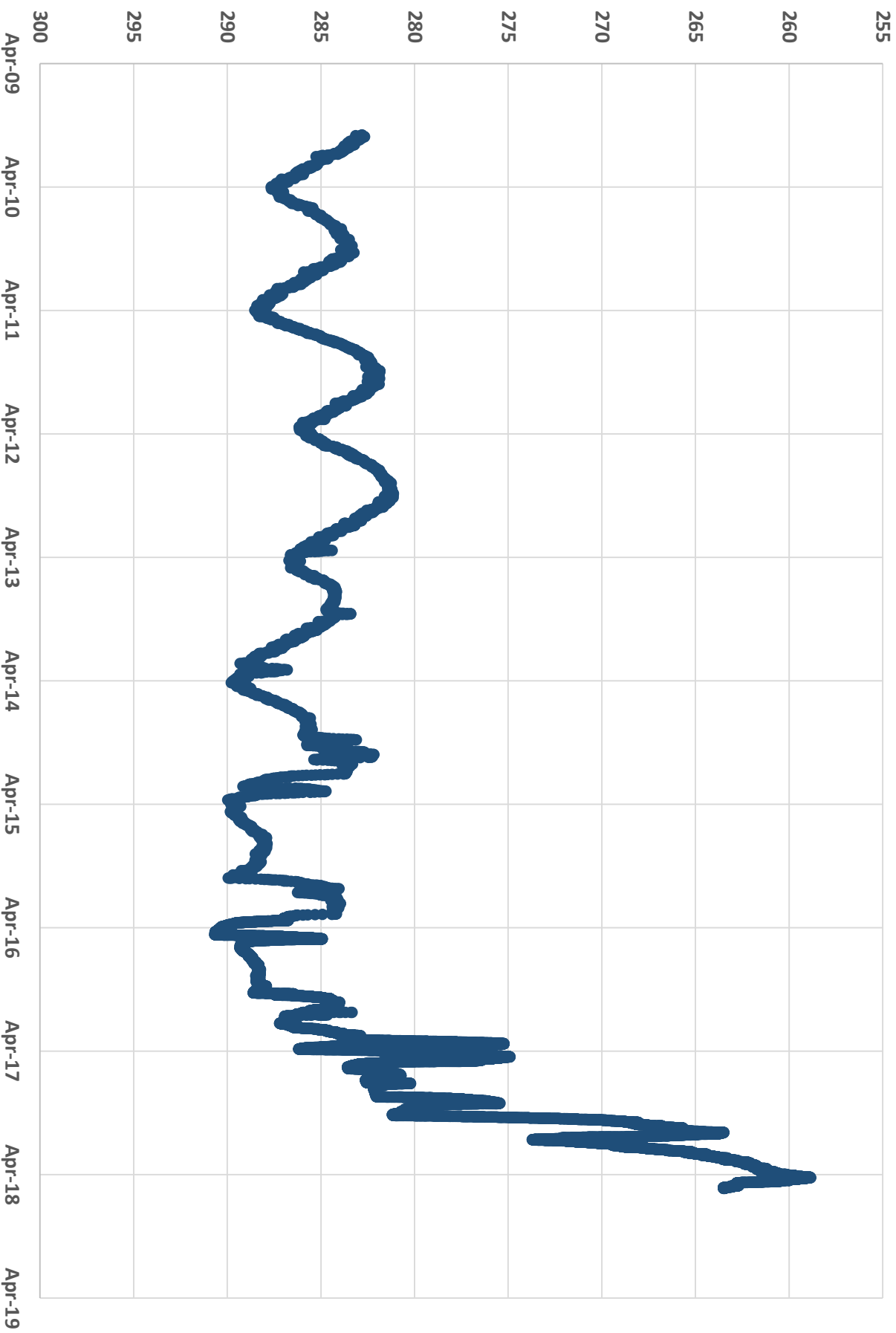
Storage Change between Mass Measurements

- Changes based on mass-measurement events give a general indication of the volume of water stored in the aquifer;
 - However, it is difficult to make management decisions with only this information.
- Hundreds of wells are measured in the spring each year.
 - Historically, these measurements were taken as time and conditions allowed.
- Since the spring of 2016, IDWR has been conducting coordinated measurement of the ESPA well network every spring to facilitate storage-change calculations.

Rationale for using Spring-Season Water Levels

- Conducting measurement events in the spring:
 - Maximizes the time between irrigation seasons.
 - Integrates the impacts due to irrigation-season activities into a resulting condition (annual aquifer storage change).
 - Pre-irrigation measurements reduce the impact of local water use on water levels (unperturbed water table).

08S 19E 02DCCD1 (MP 31)

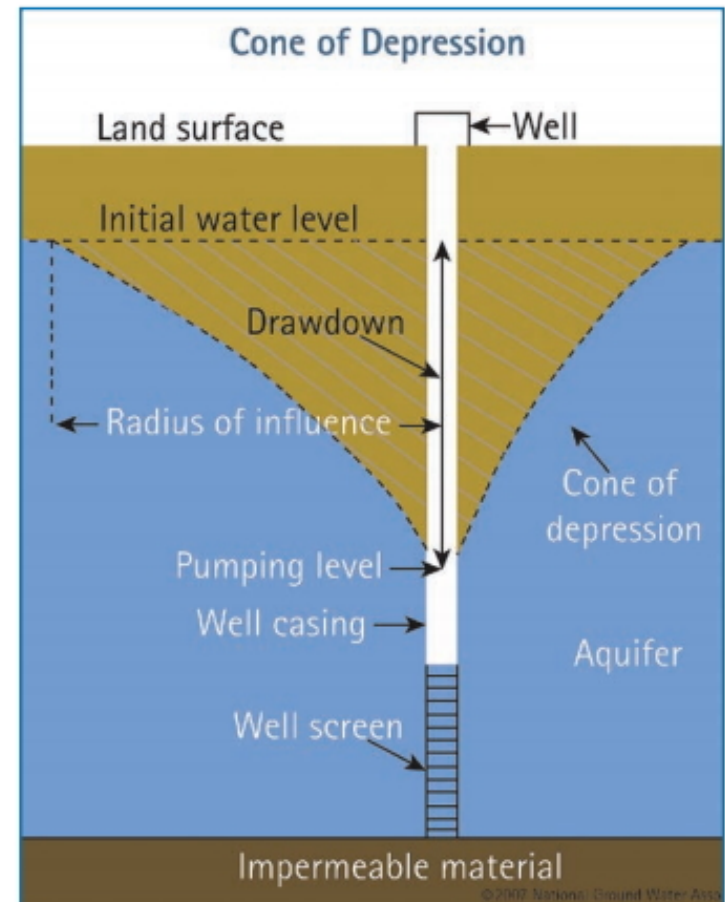


Managed Recharge Necessitates a New Methodology

- A major reason to monitor in the spring is to avoid water levels that are the result of local water use.
- Managed recharge impacts water levels, and these impacts need to be addressed in the storage-change calculations.
- Managed recharge needs to be captured, but not oversold.

Water-Level Impacts due to Local Water Use

- Example: Short-term pumping in a well can produce water-level changes that do not represent the regional conditions. We don't want these water levels.
- What if a water level is impacted by increased areal recharge from a wet winter?
- Managed recharge also impacts water levels...



Water Levels Impacted by Managed Recharge

- Water levels that are impacted by managed recharge **must be included**. Recharge is not an artifact of local use; it is a real, regional water-budget component.
 - We need to avoid over-estimating storage changes by excluding water levels that respond too strongly to recharge.
 - Any approach used to determine which data to include/exclude requires a subjective decision.
 - There is no direct answer as to whether water-level responses to recharge appropriately represent water-budget change.

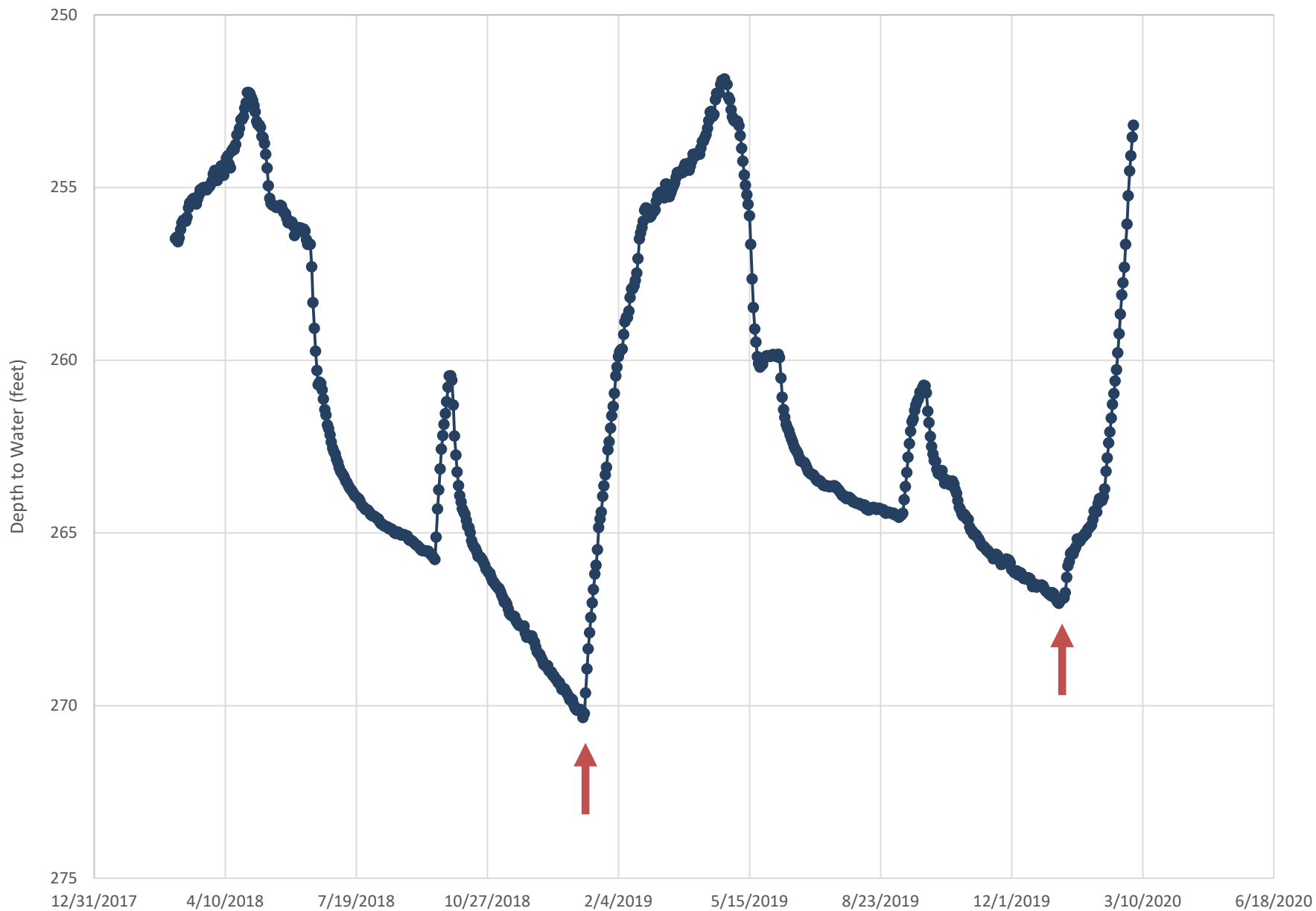
Choosing Wells in Proximity to Managed Recharge

- ESPAM2.1 is a regional model.
 - The model area is broken into one-mile grid cells.
 - The model simulation period is divided into one-month stress periods.
- Because we are calculating regional impacts, I have used the ESPAM2.1 discretization to include/exclude wells.
 - Exclude wells that are less than one mile from a recharge location.
 - For wells > one mile from recharge, exclude water levels that occur less than 30 days after an obvious recharge event –
 - Not all recharge locations are known, and not all water-level data are sufficient for these choices.

A Different Set of Wells

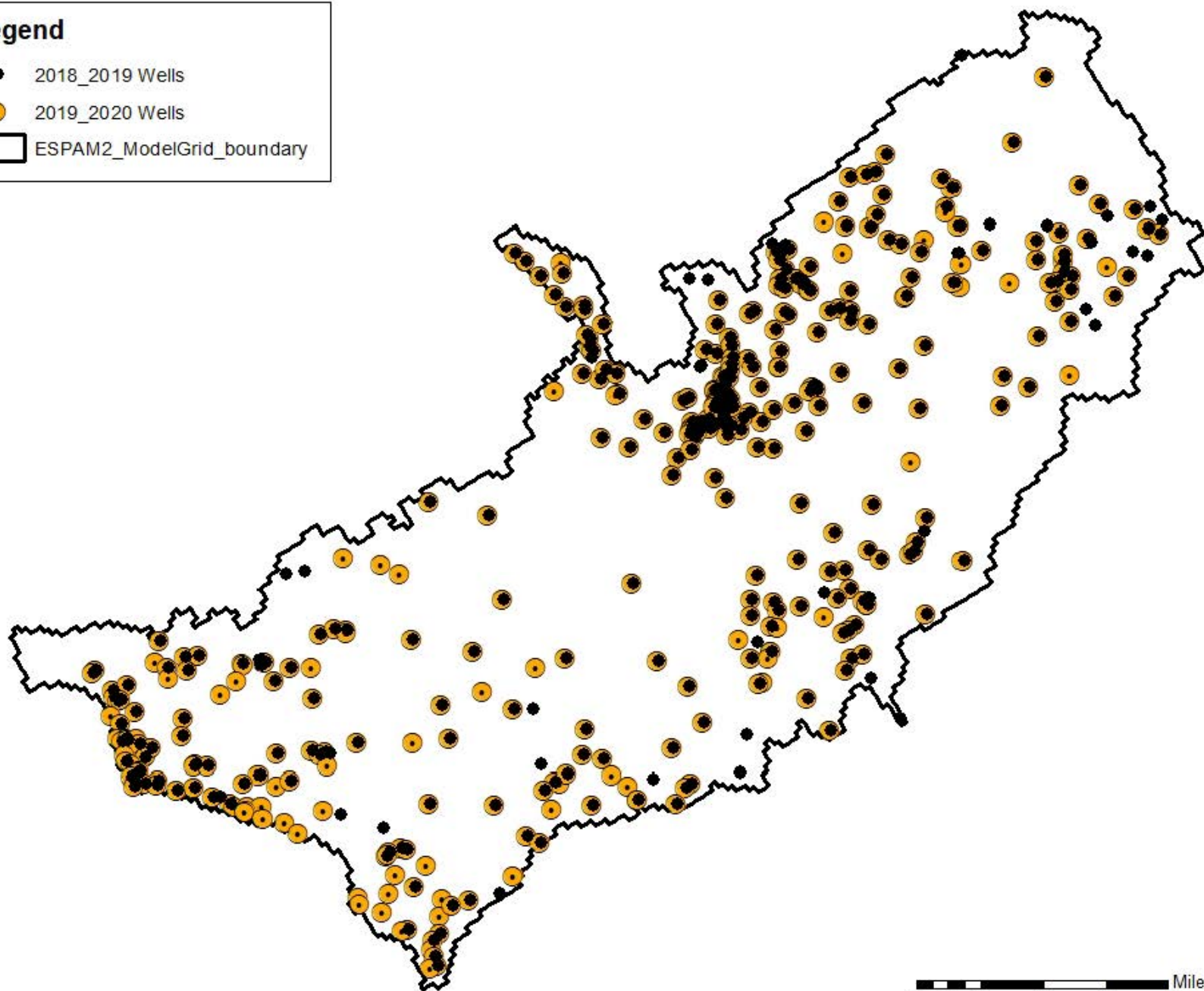
- All wells have been re-evaluated for use in storage-change calculations.
- Some wells have been removed due to proximity to recharge or other issues.
- Additional wells have been included:
 - Recently drilled or recently measured.
 - Missing measurements in some wells have been estimated via correlation with nearby wells.
 - This process has been implemented in areas where the lack of data results in unreasonable interpolated water levels.
- Transducer data allow me to pick the minimum water level.

08S 19E 02CBC1



Legend

- 2018_2019 Wells
- 2019_2020 Wells
- ESPAM2_ModelGrid_boundary



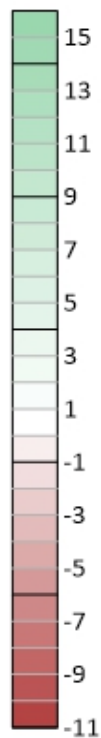
0 5 10 20 30 40 Miles



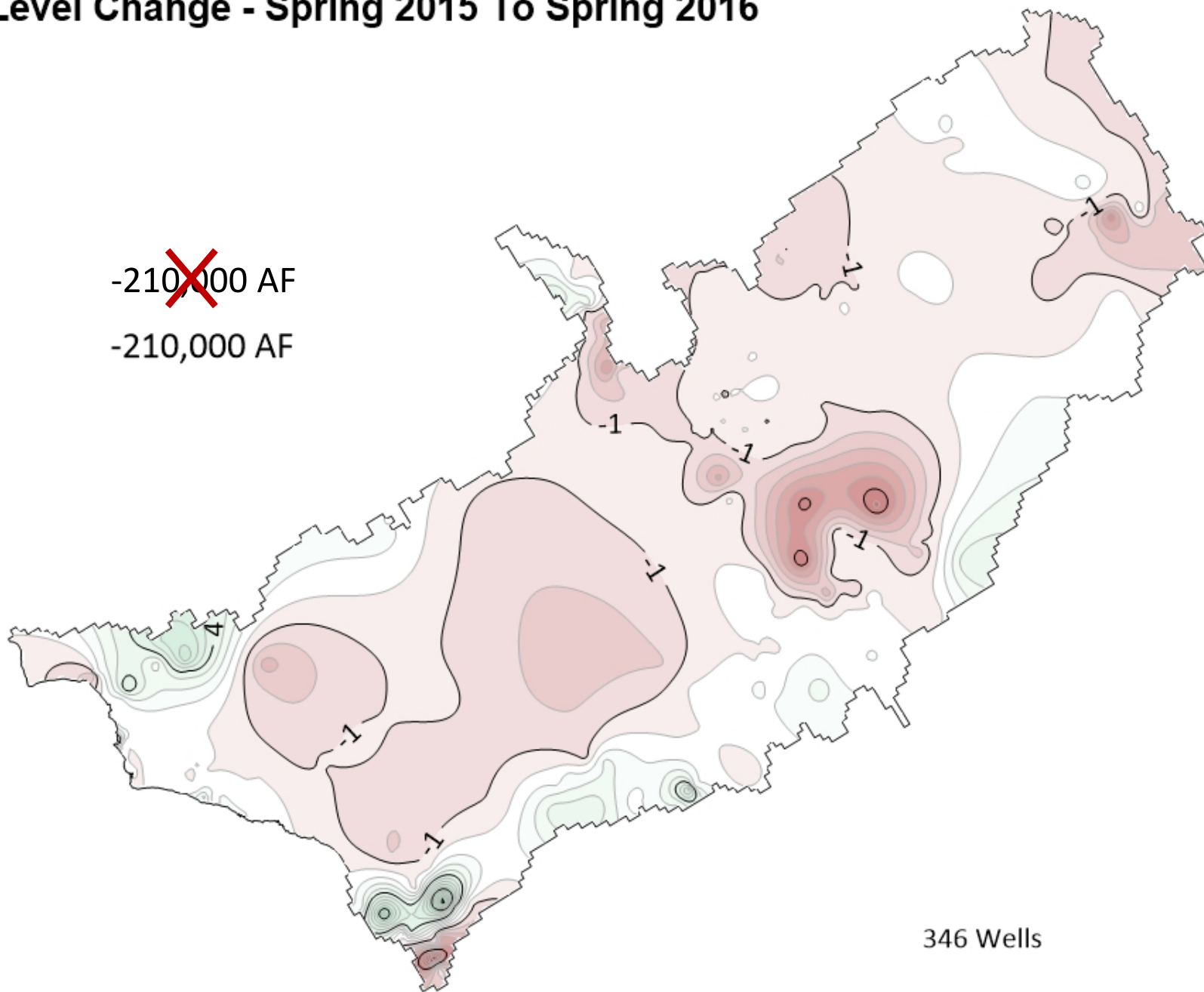
Annual Measurement Change Maps – New Methodology 2015 through 2020

Water Level Change - Spring 2015 To Spring 2016

Water Level
Change (ft)



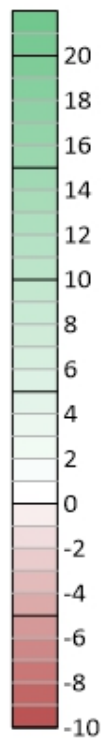
~~-210,000 AF~~
-210,000 AF



346 Wells

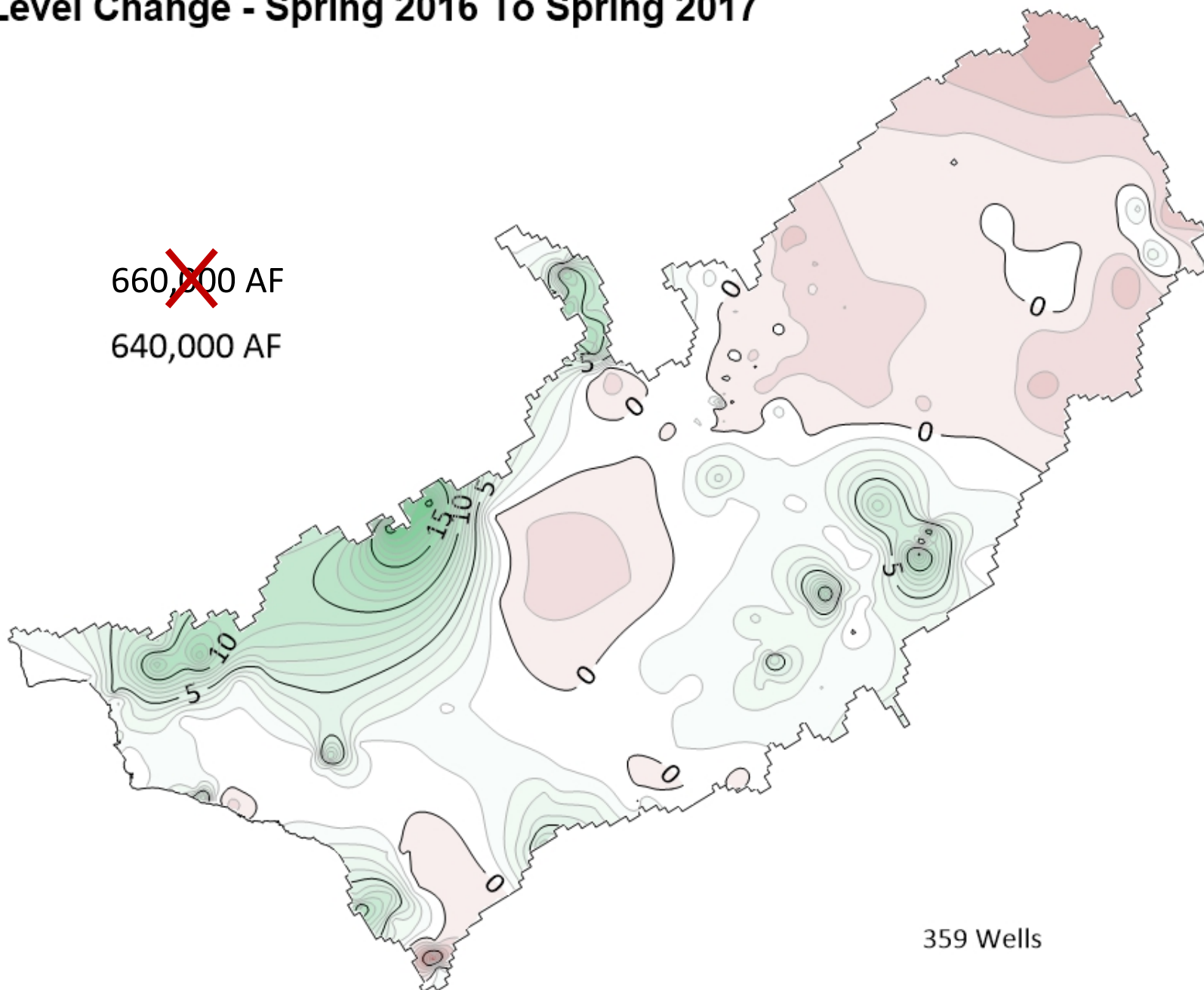
Water Level Change - Spring 2016 To Spring 2017

Water Level
Change (ft)



~~660,000 AF~~

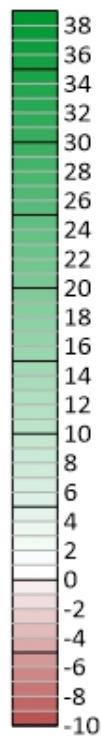
640,000 AF



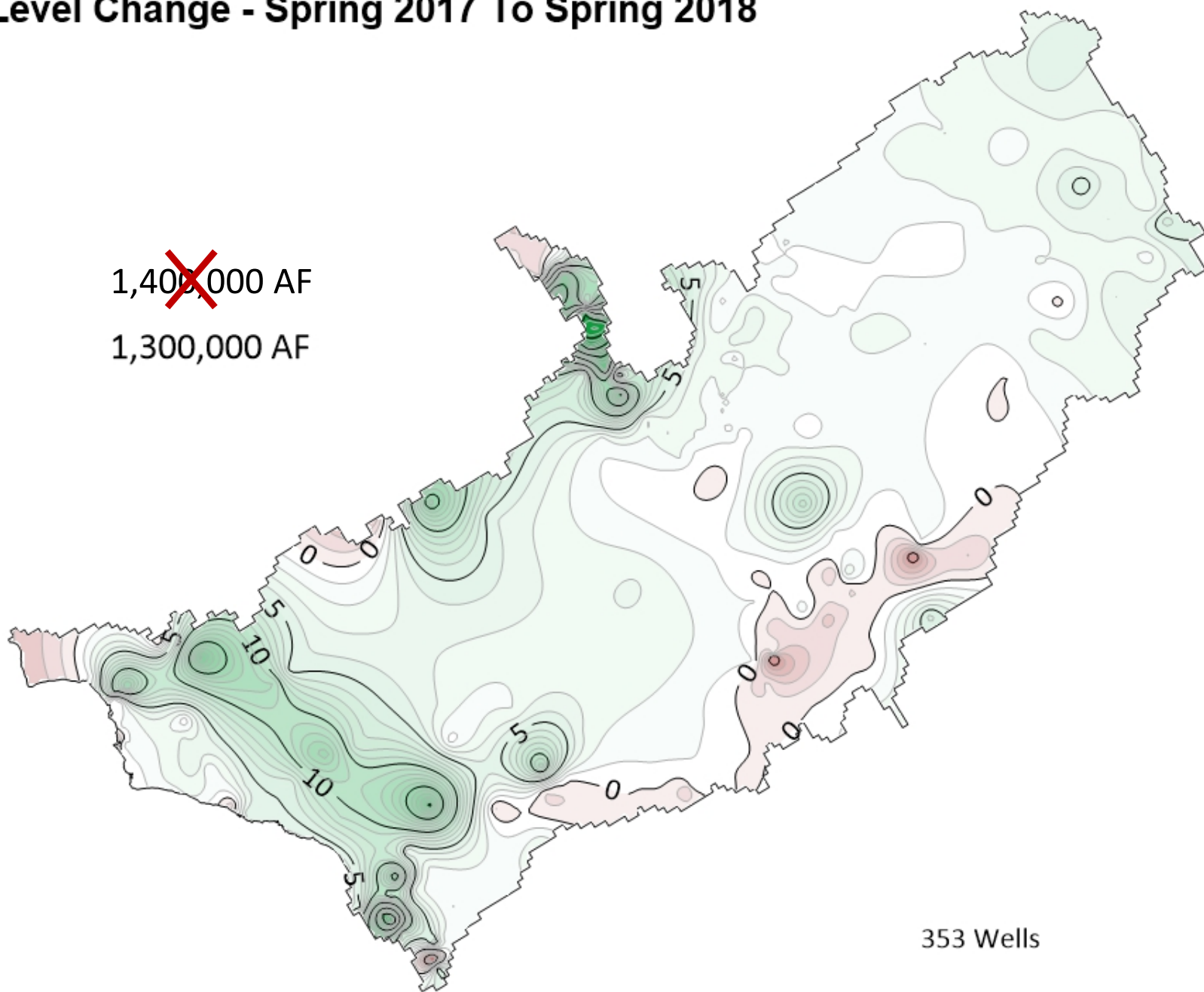
359 Wells

Water Level Change - Spring 2017 To Spring 2018

Water Level
Change (ft)



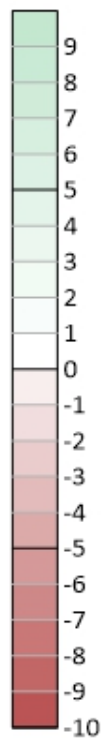
~~1,400,000 AF~~
1,300,000 AF



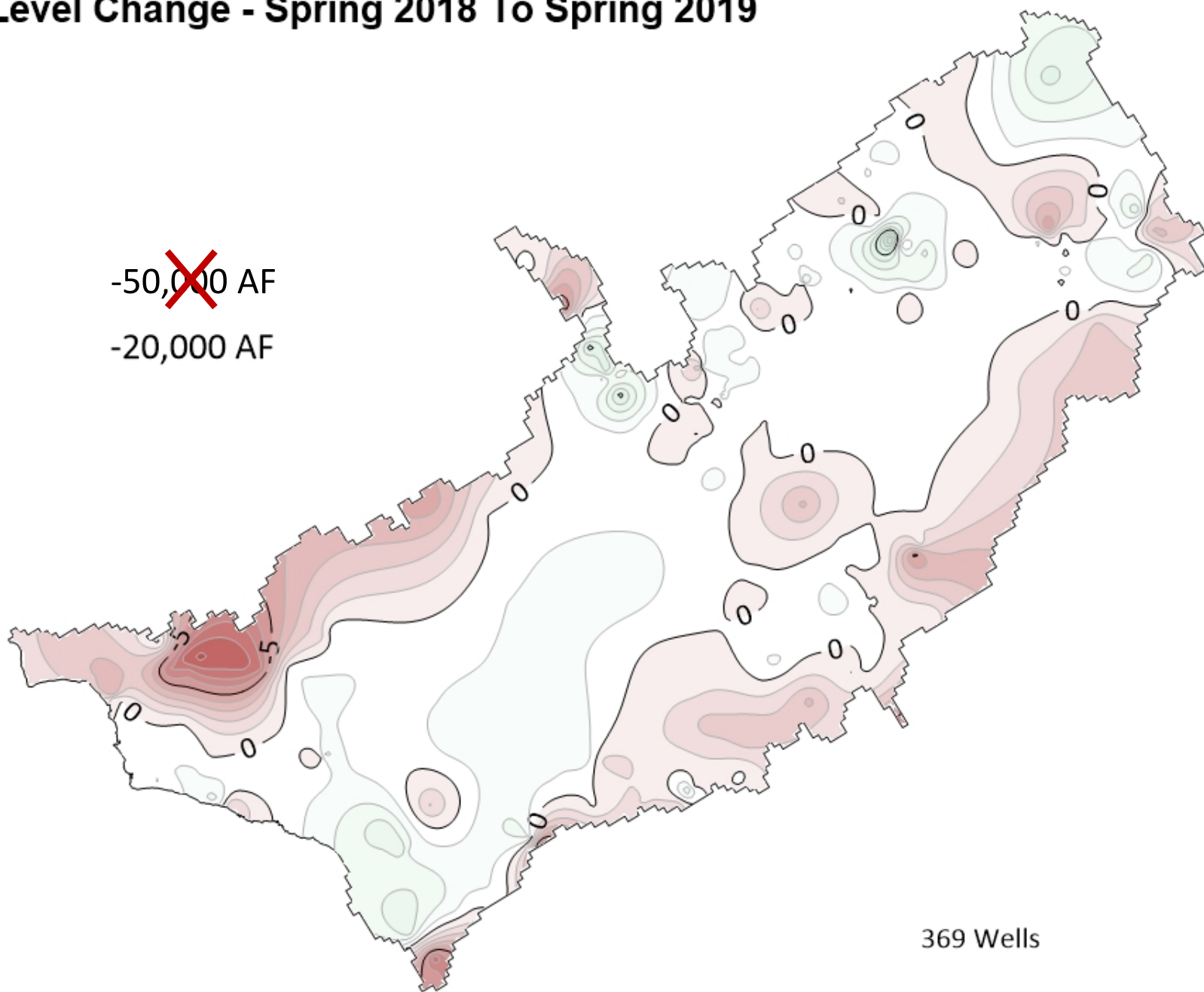
353 Wells

Water Level Change - Spring 2018 To Spring 2019

Water Level
Change (ft)



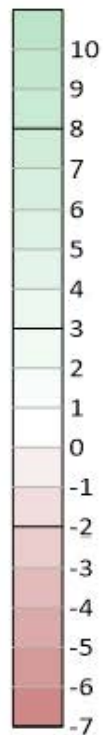
~~-50,000 AF~~
-20,000 AF



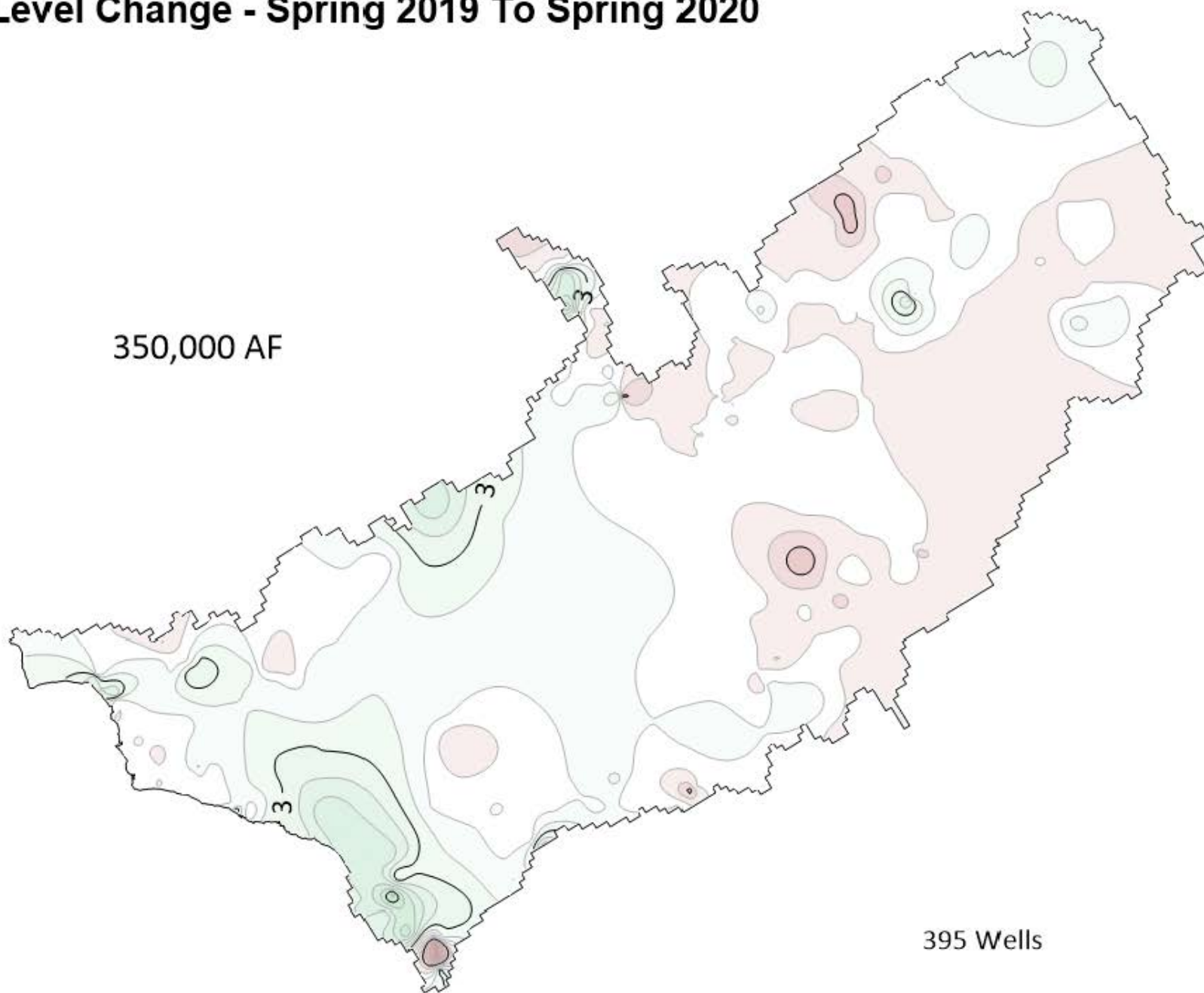
369 Wells

Water Level Change - Spring 2019 To Spring 2020

Water Level
Change (ft)



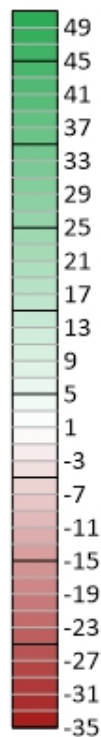
350,000 AF



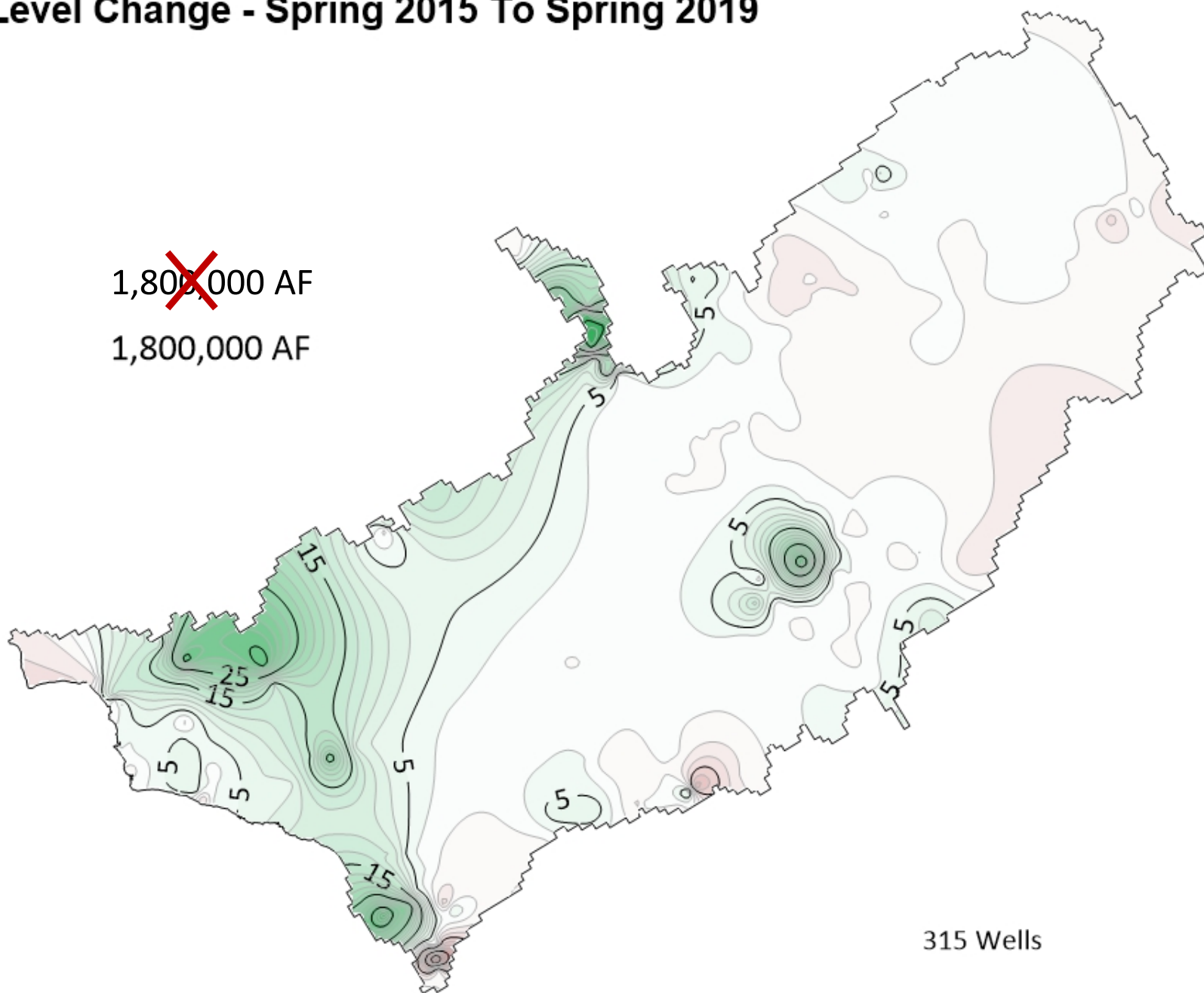
395 Wells

Water Level Change - Spring 2015 To Spring 2019

Water Level
Change (ft)



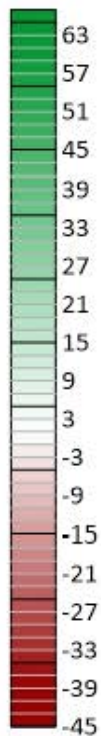
~~1,800,000 AF~~
1,800,000 AF



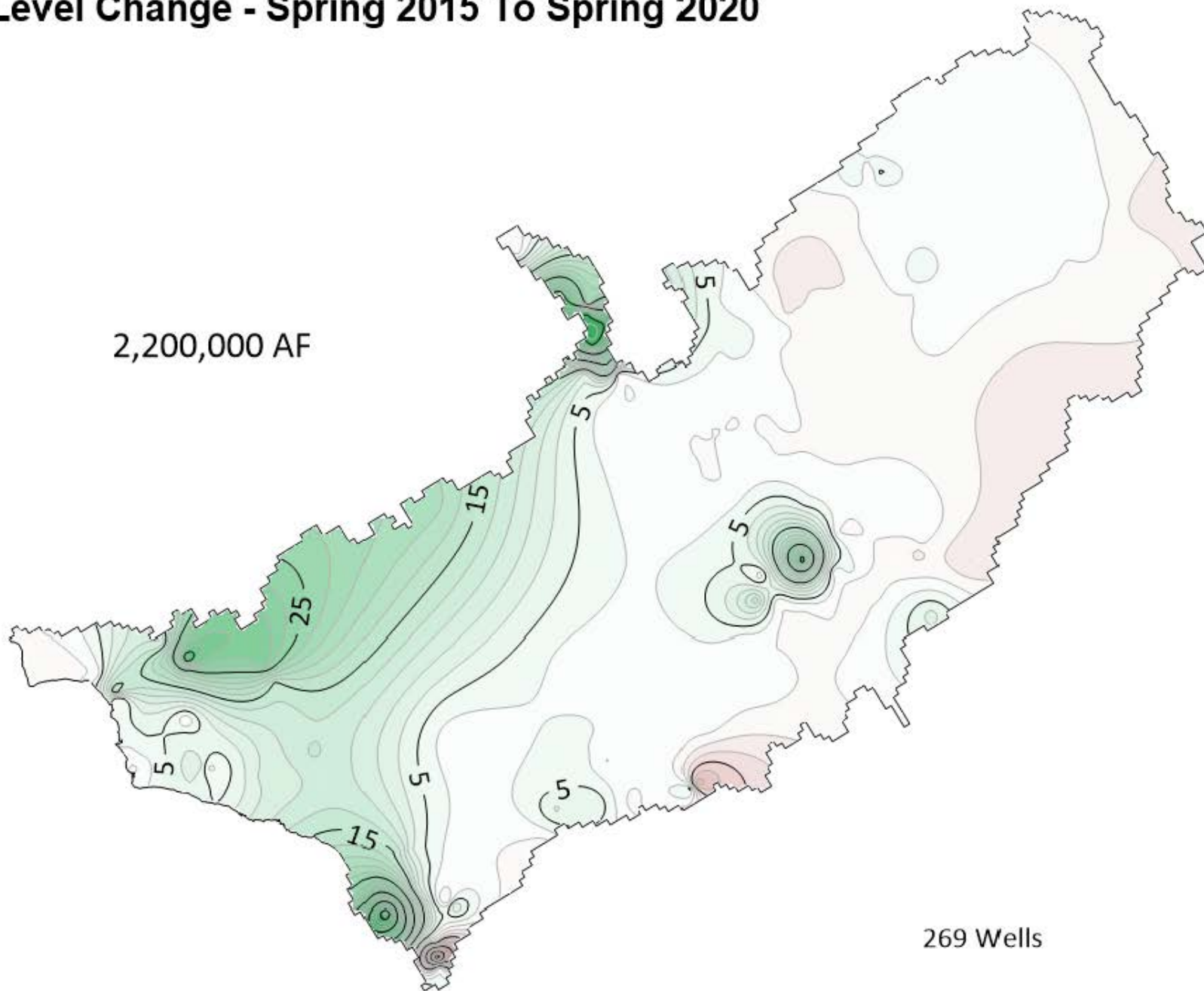
315 Wells

Water Level Change - Spring 2015 To Spring 2020

Water Level
Change (ft)

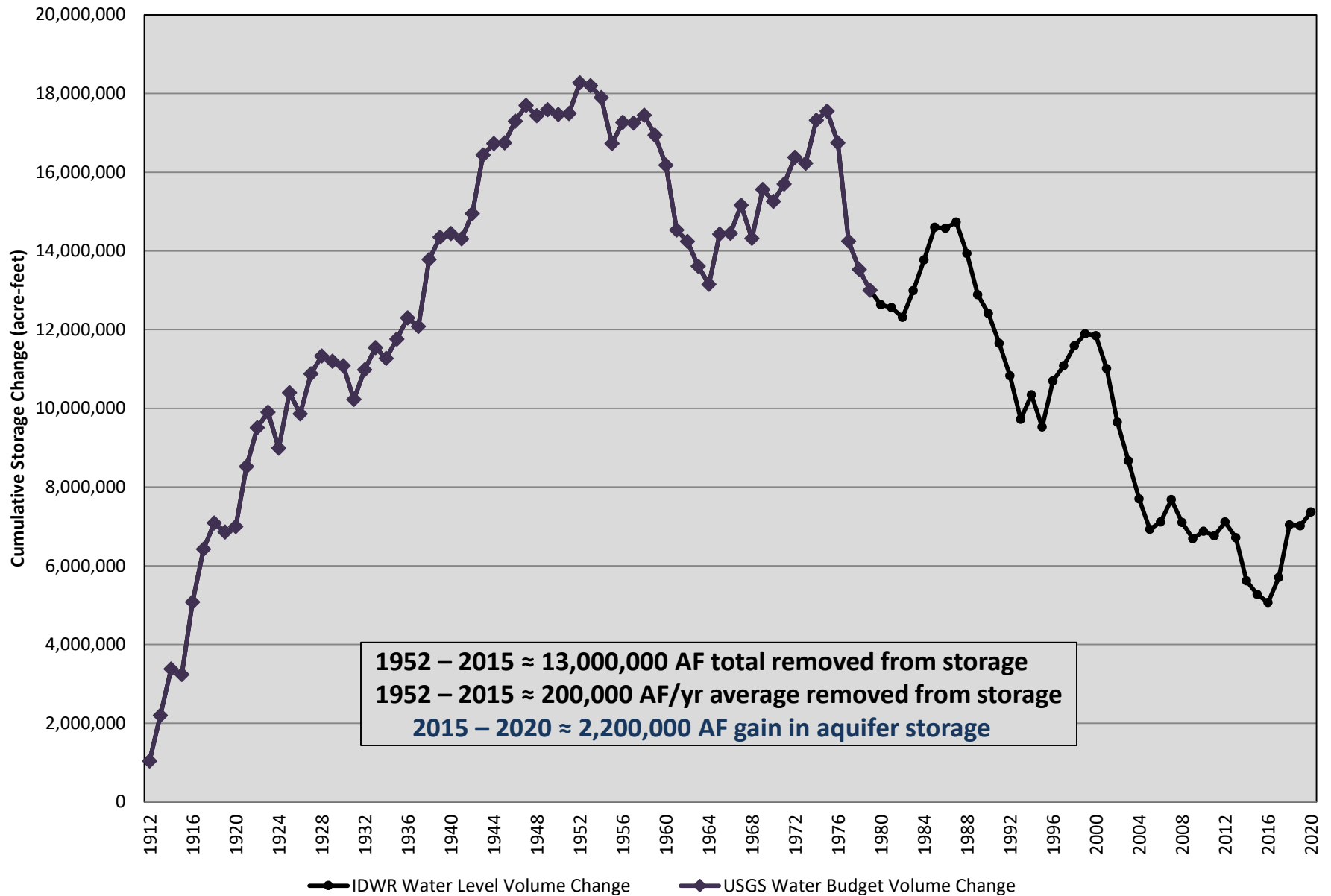


2,200,000 AF

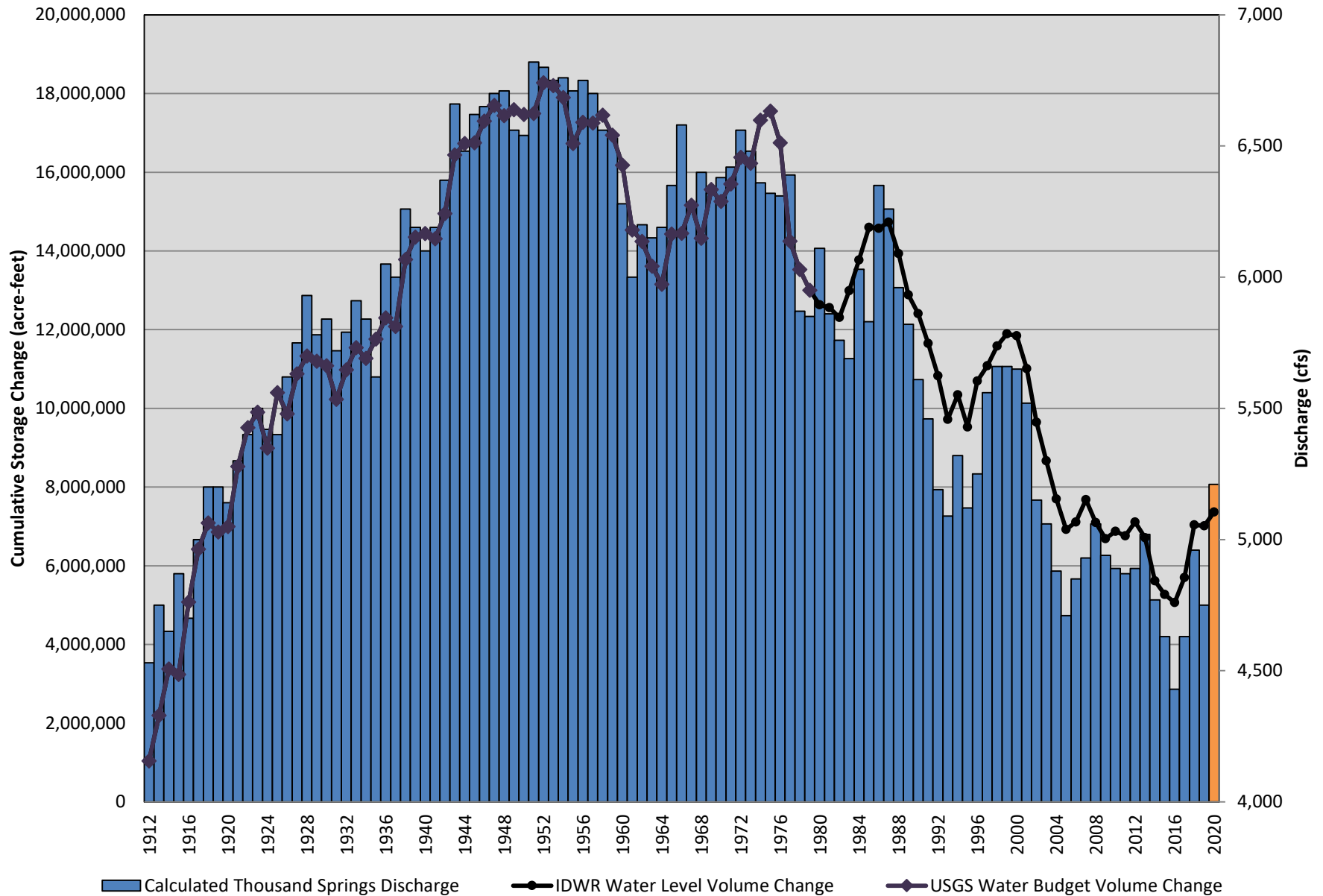


269 Wells

Changes in Volume of Water Stored in the ESPA

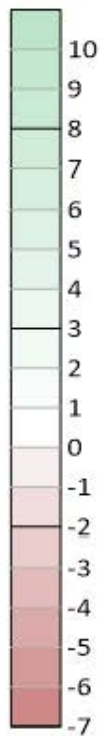


ESPA Volume of Water and Thousand Springs Discharge

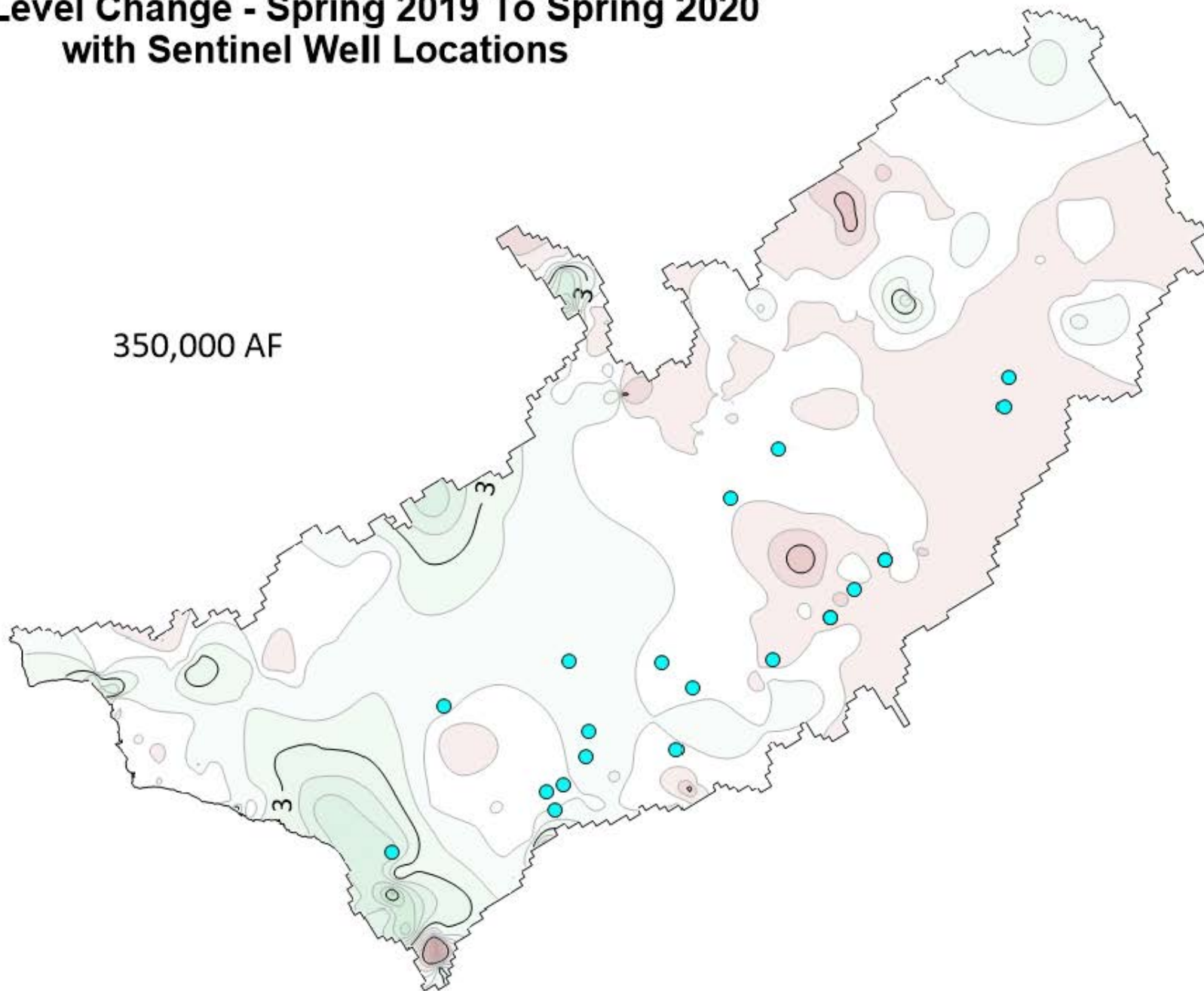


Water Level Change - Spring 2019 To Spring 2020 with Sentinel Well Locations

Water Level
Change (ft)

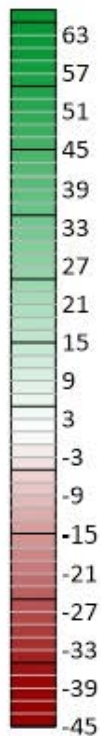


350,000 AF

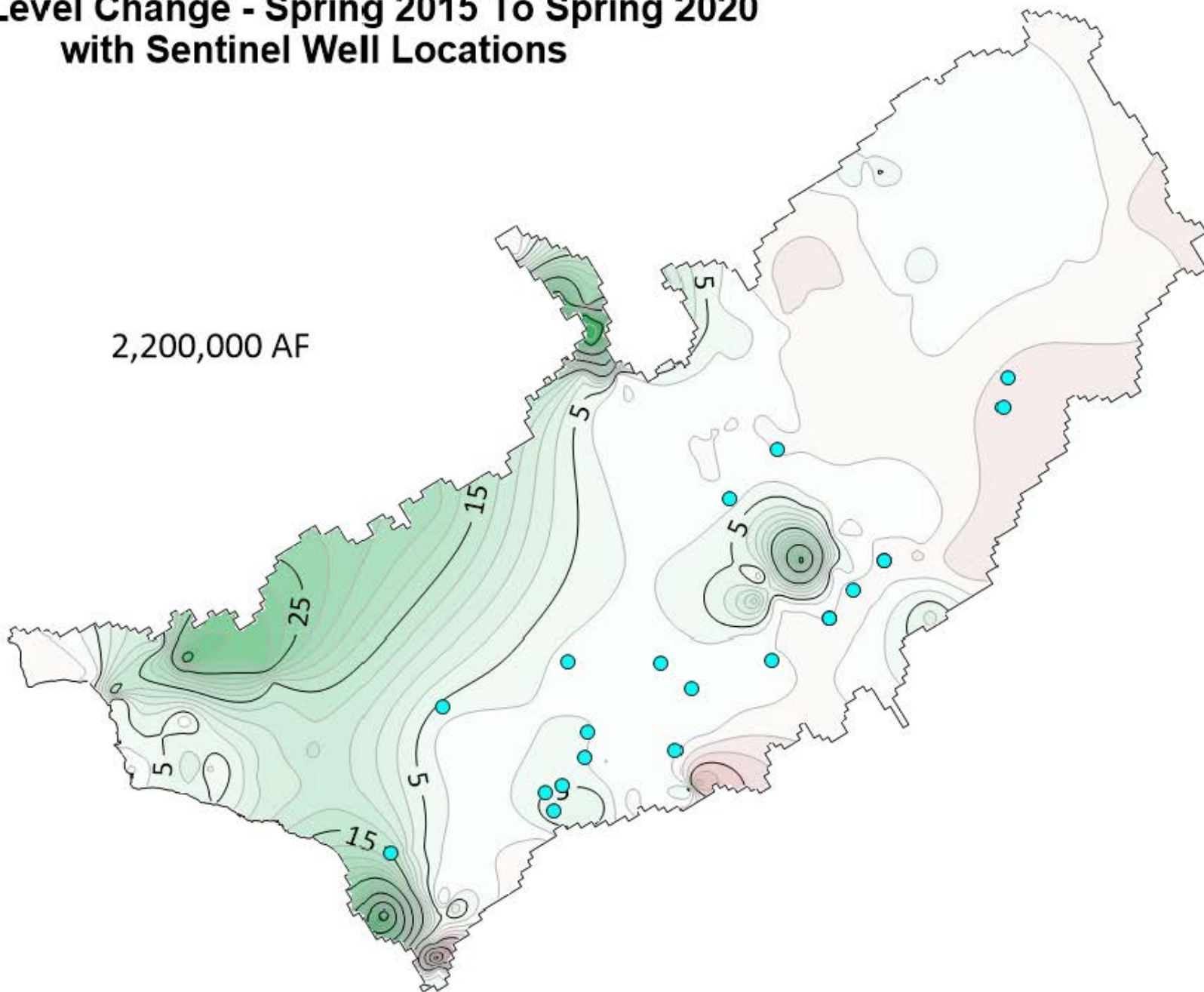


Water Level Change - Spring 2015 To Spring 2020 with Sentinel Well Locations

Water Level
Change (ft)



2,200,000 AF



Methodology Synopsis

- The storage-change methodology has changed to address managed recharge.
 - Some wells have been removed to prevent over-estimation of storage changes.
 - Some wells have been added due new installation or monitoring
 - Some missing water levels have been estimated via correlation in order to modify interpolation errors.
- The new methodology generally moderates the volume-change estimates.

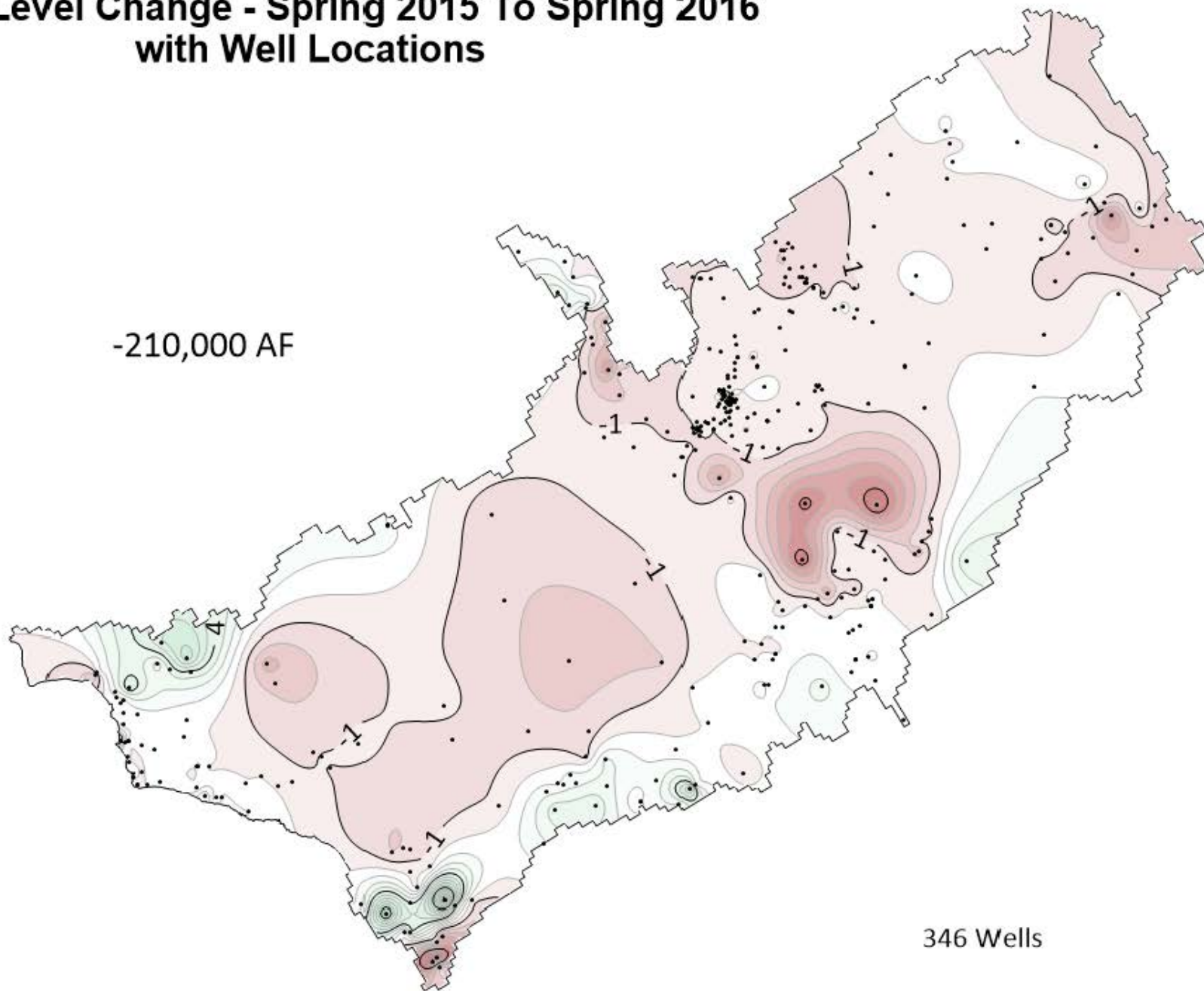
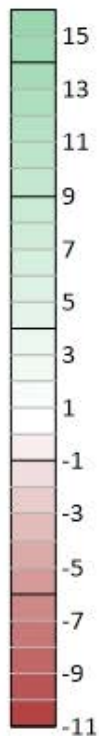
Storage Change Synopsis

- The aquifer gained 350,000 acre-feet from 2019 to 2020.
- The overall water levels in the ESPA have risen significantly from 2015 to 2020.
 - The aquifer has gained 2,200,000 acre-feet of storage.
- The increase in ESPA storage from 2015 to 2020 represents a good start to a long-term solution.
 - Undulations due to weather are to be expected.
 - The ESPA leaks, and aquifer-storage gains are fleeting.

Discussion

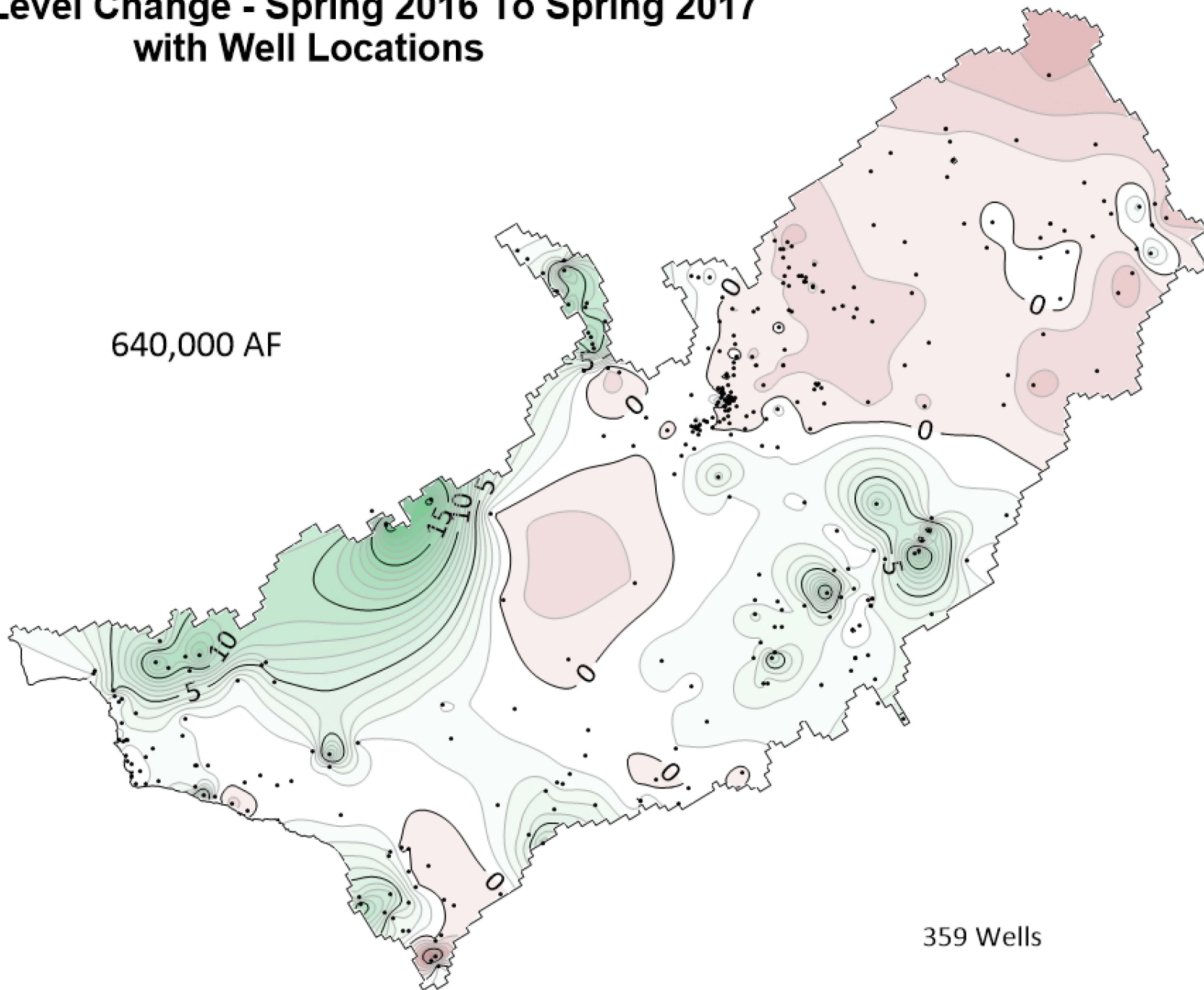
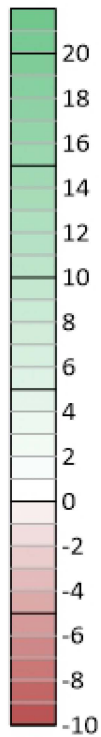
Water Level Change - Spring 2015 To Spring 2016 with Well Locations

Water Level
Change (ft)



Water Level Change - Spring 2016 To Spring 2017 with Well Locations

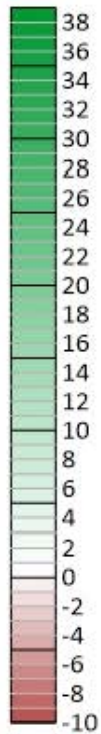
Water Level
Change (ft)



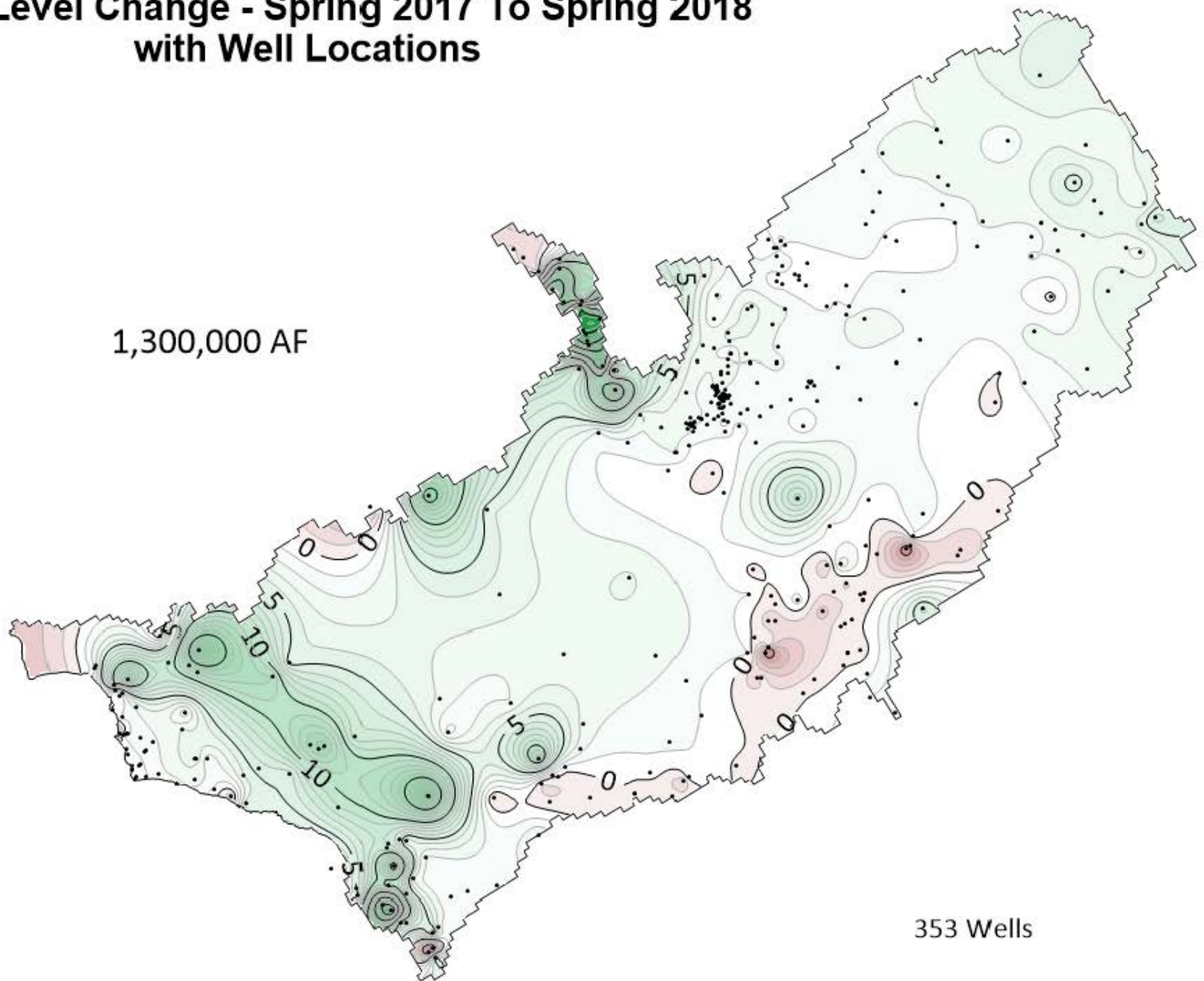
359 Wells

Water Level Change - Spring 2017 To Spring 2018 with Well Locations

Water Level
Change (ft)

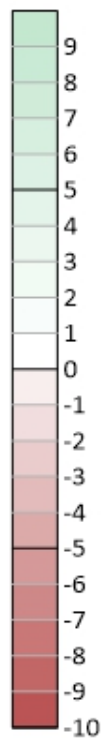


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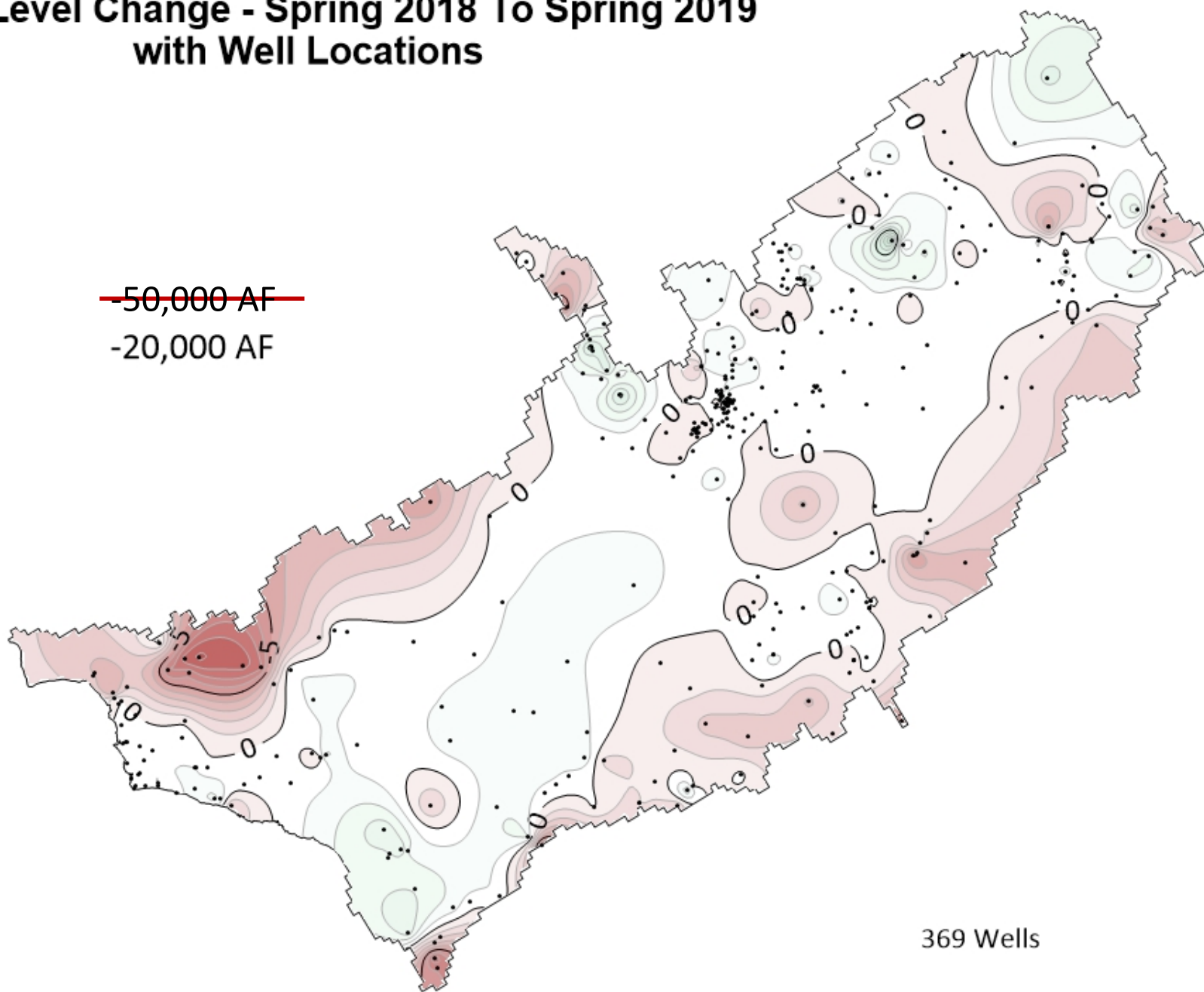


Water Level Change - Spring 2018 To Spring 2019 with Well Locations

Water Level
Change (ft)



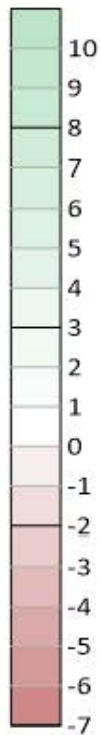
~~-50,000 AF~~
-20,000 AF



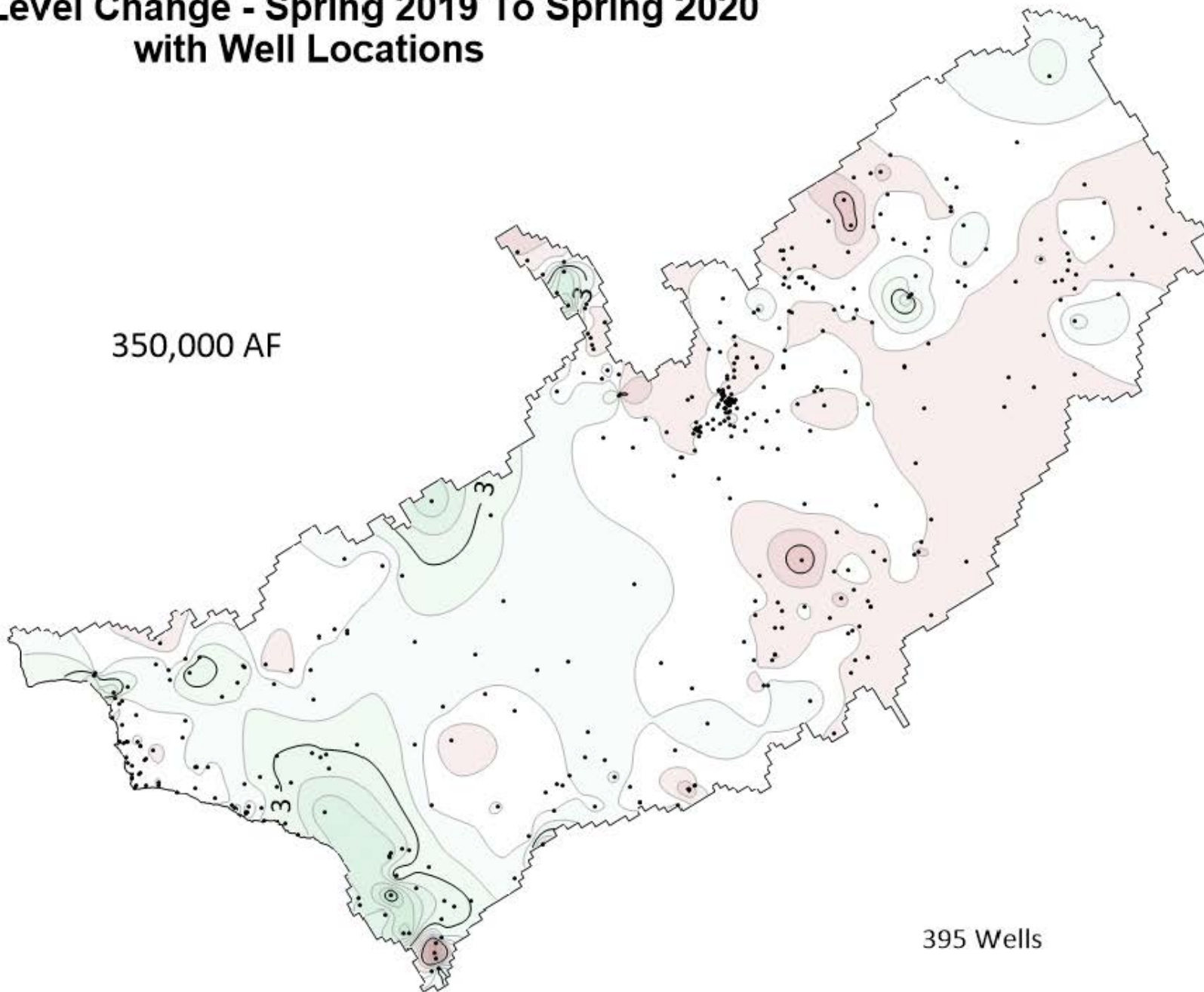
369 Wells

Water Level Change - Spring 2019 To Spring 2020 with Well Locations

Water Level
Change (ft)



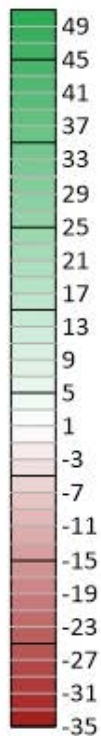
350,000 AF



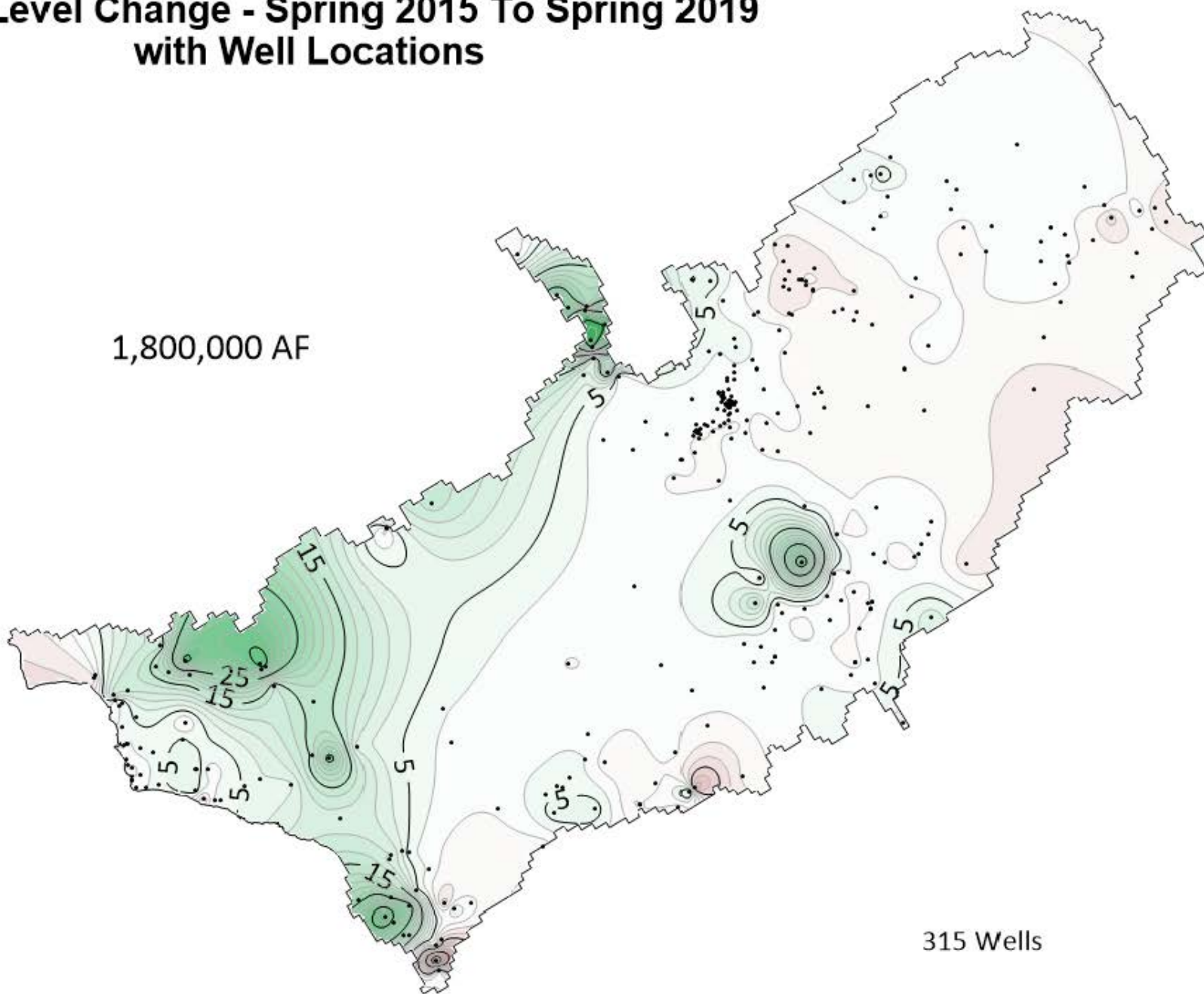
395 Wells

Water Level Change - Spring 2015 To Spring 2019 with Well Locations

Water Level
Change (ft)



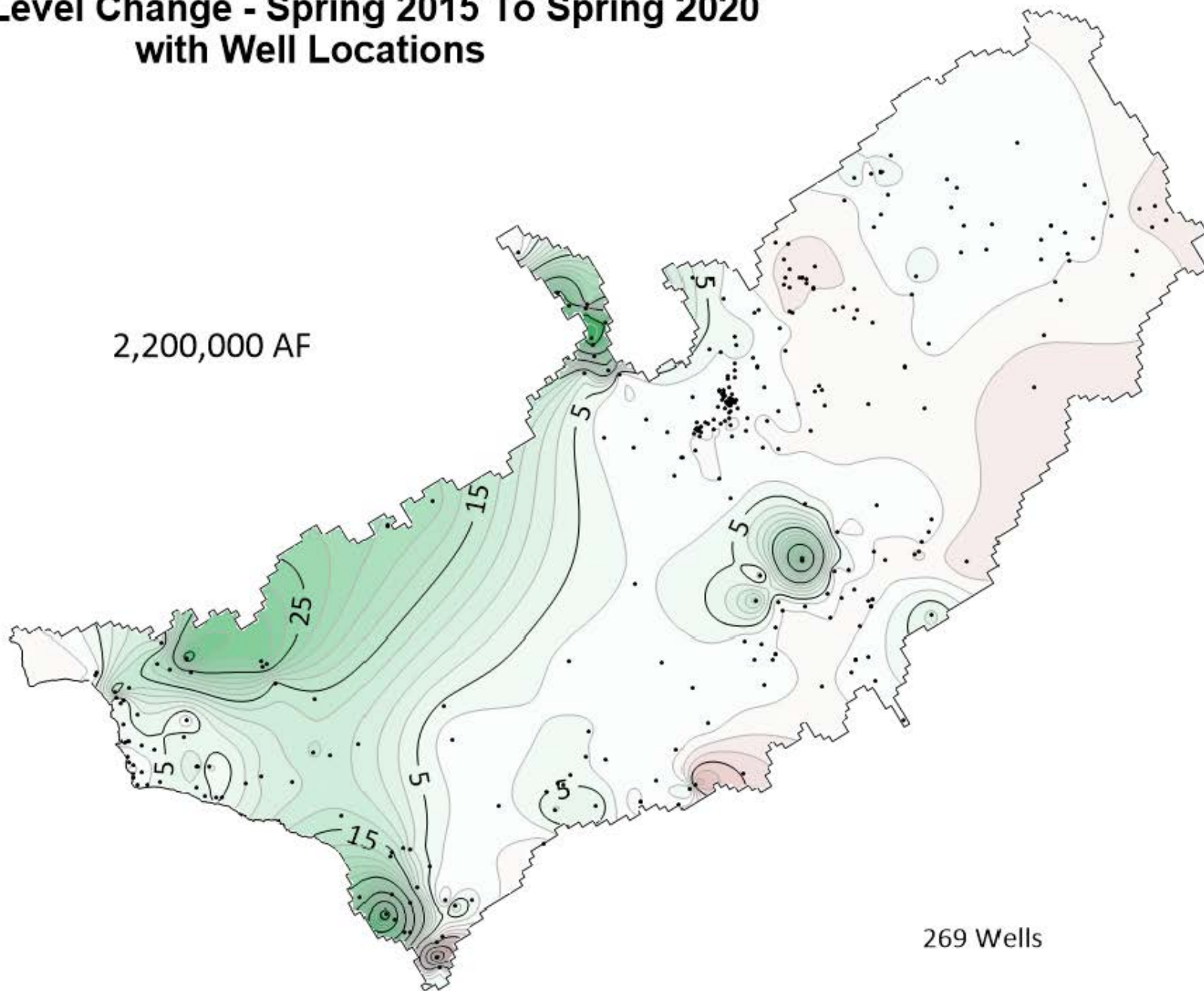
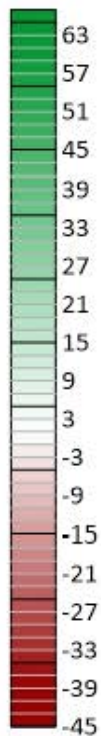
1,800,000 AF



315 Wells

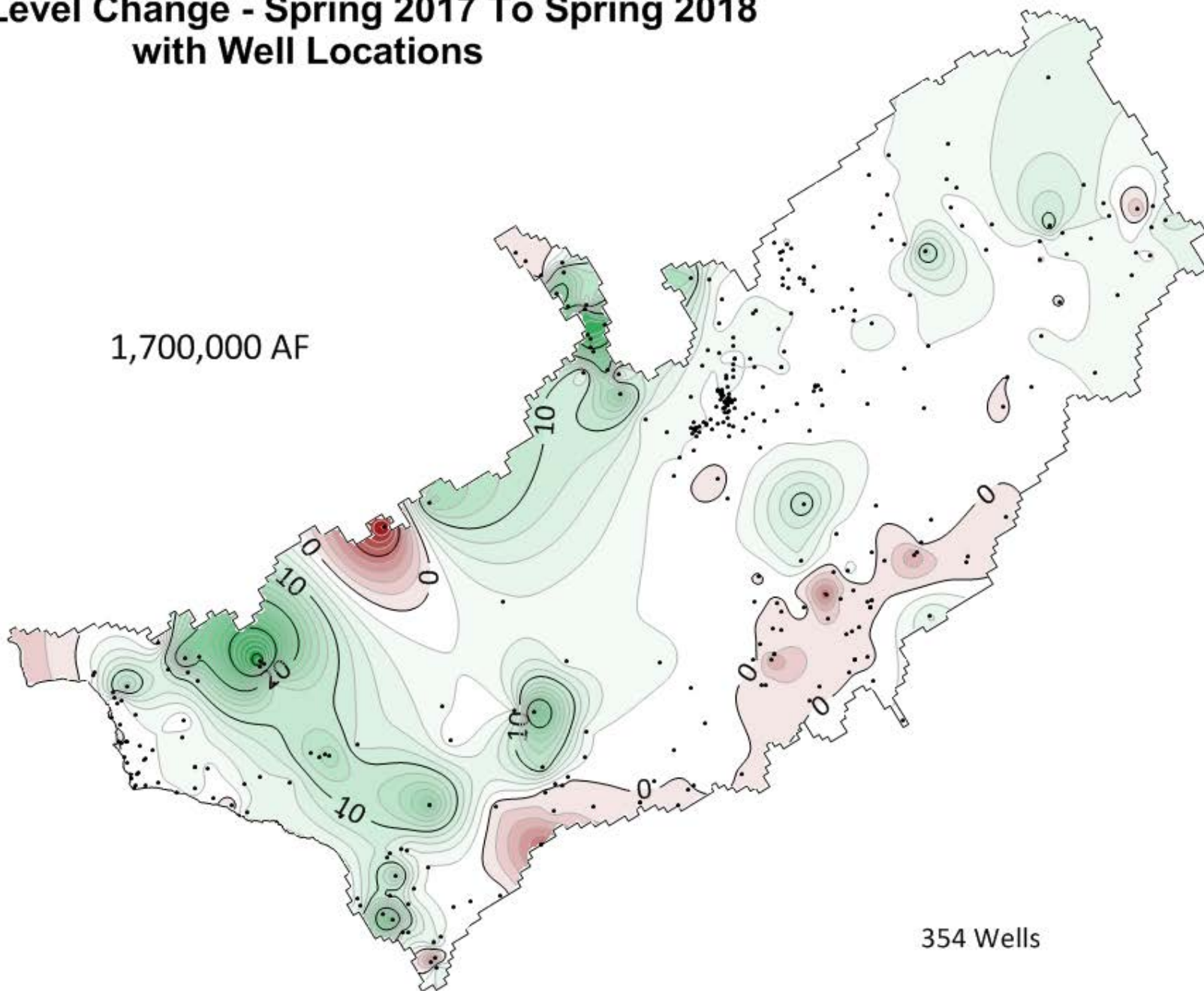
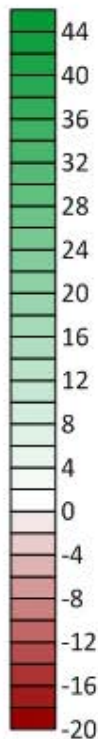
Water Level Change - Spring 2015 To Spring 2020 with Well Locations

Water Level
Change (ft)



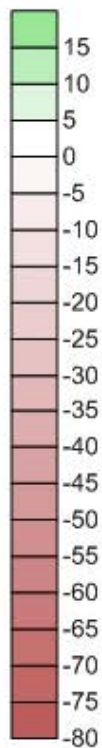
Water Level Change - Spring 2017 To Spring 2018 with Well Locations

Water Level
Change (ft)



Water Level Change - Spring 1980 To Spring 2001 with Well Locations

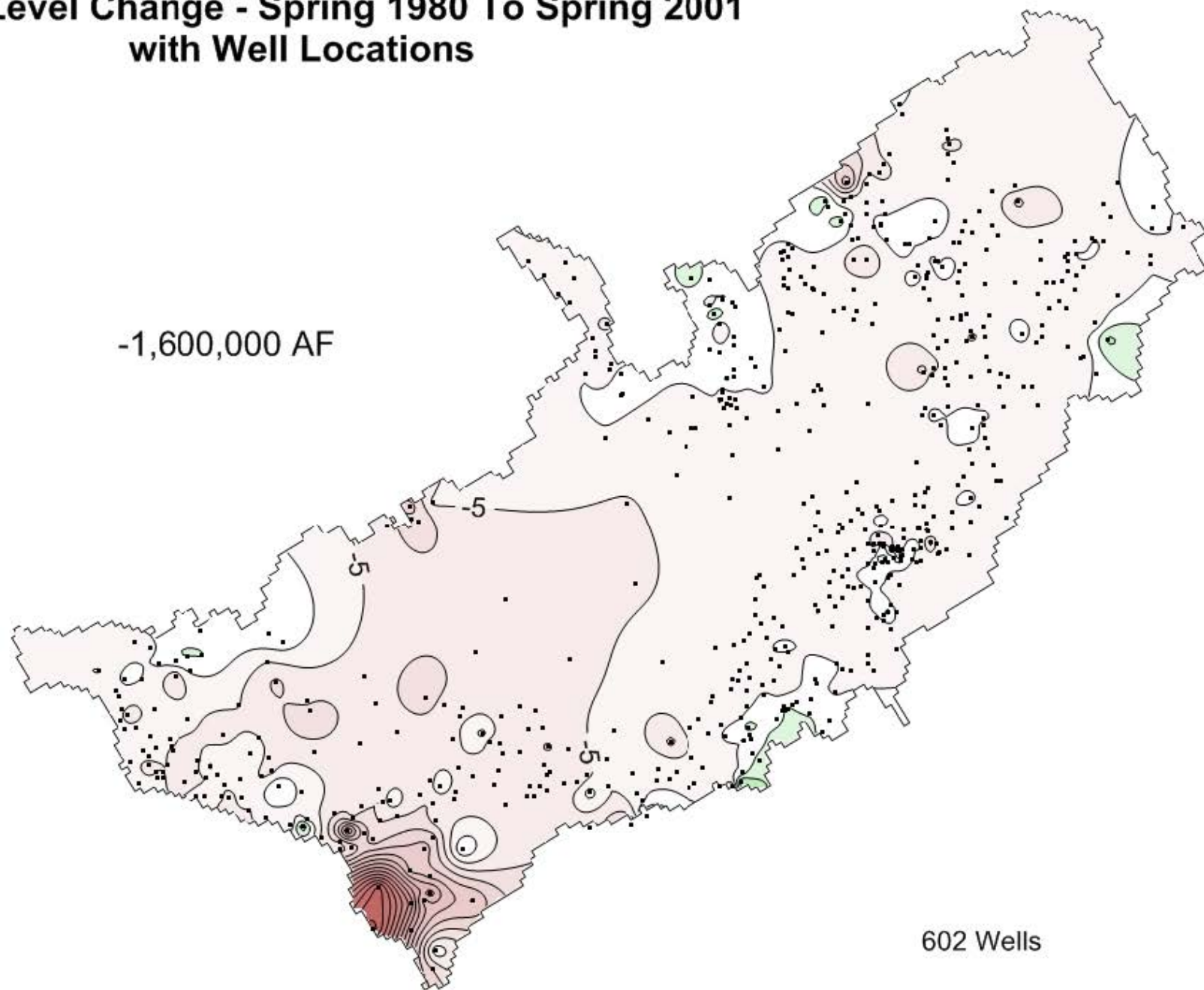
Water Level
Change (ft)



-1,600,000 AF

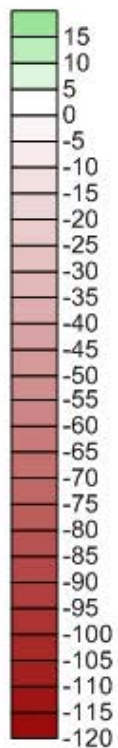
-5

602 Wells

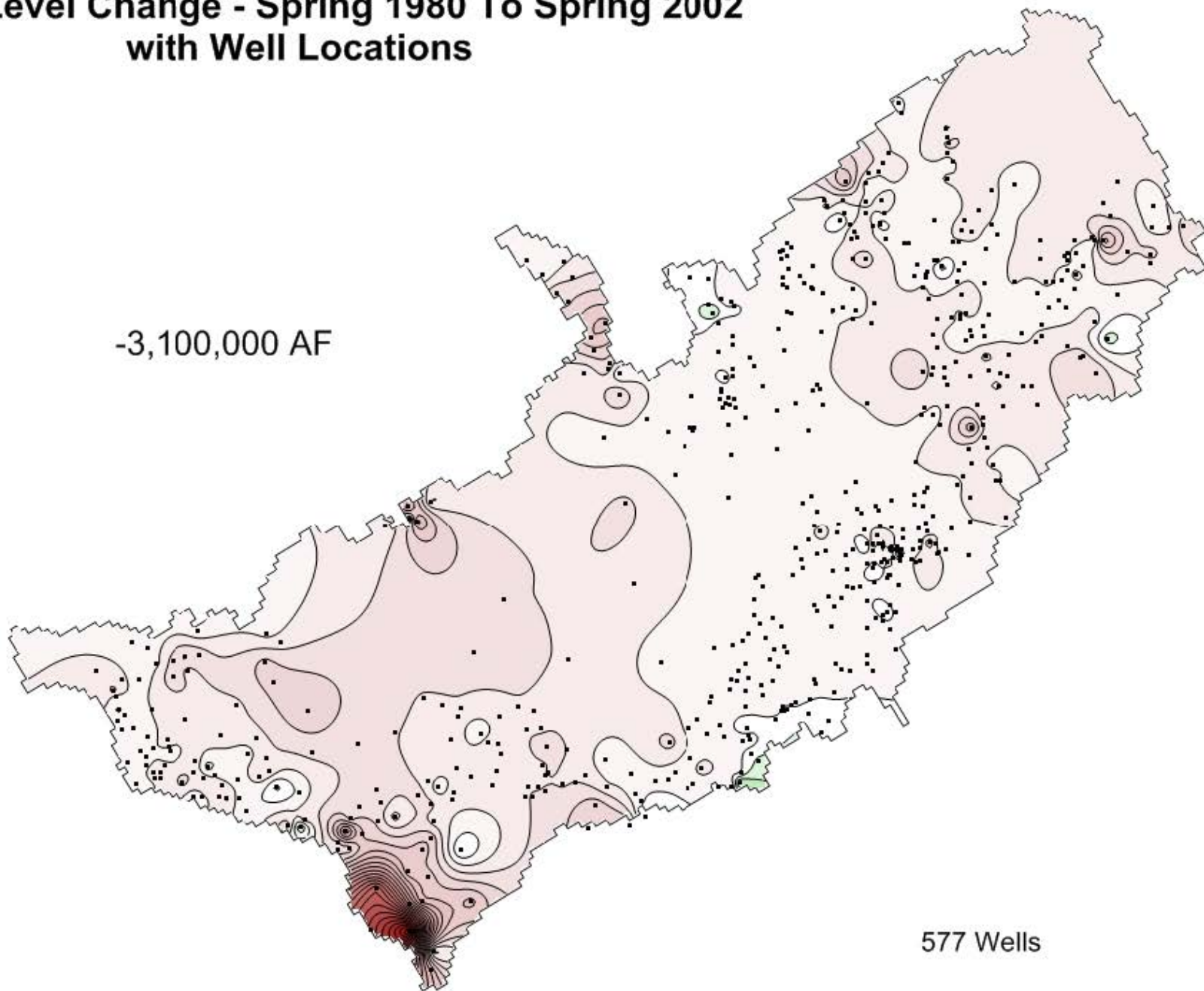


Water Level Change - Spring 1980 To Spring 2002 with Well Locations

Water Level
Change (ft)



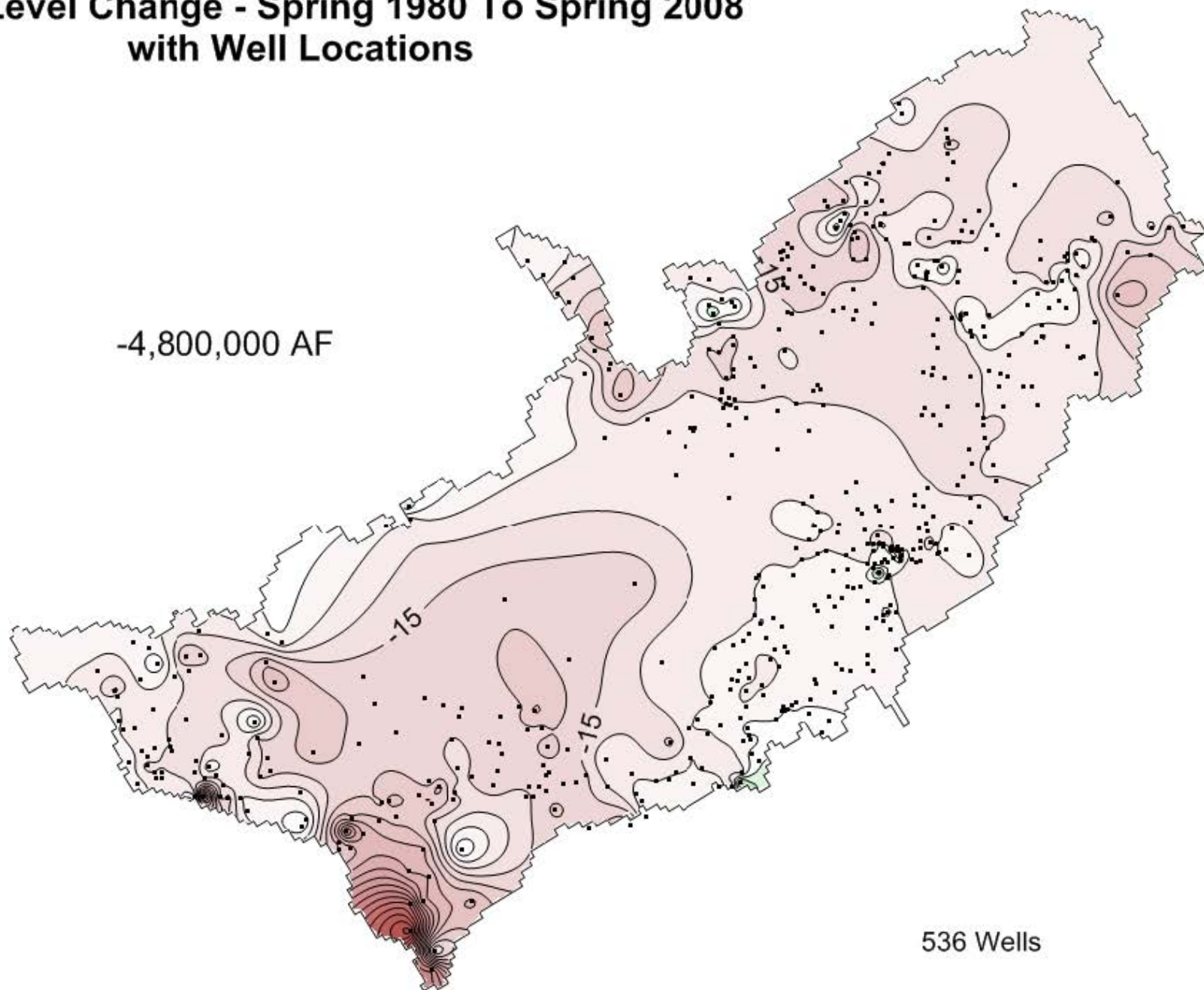
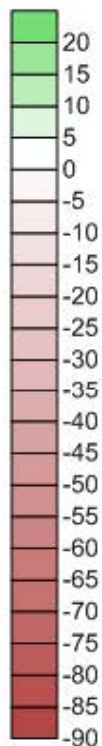
-3,100,000 AF



577 Wells

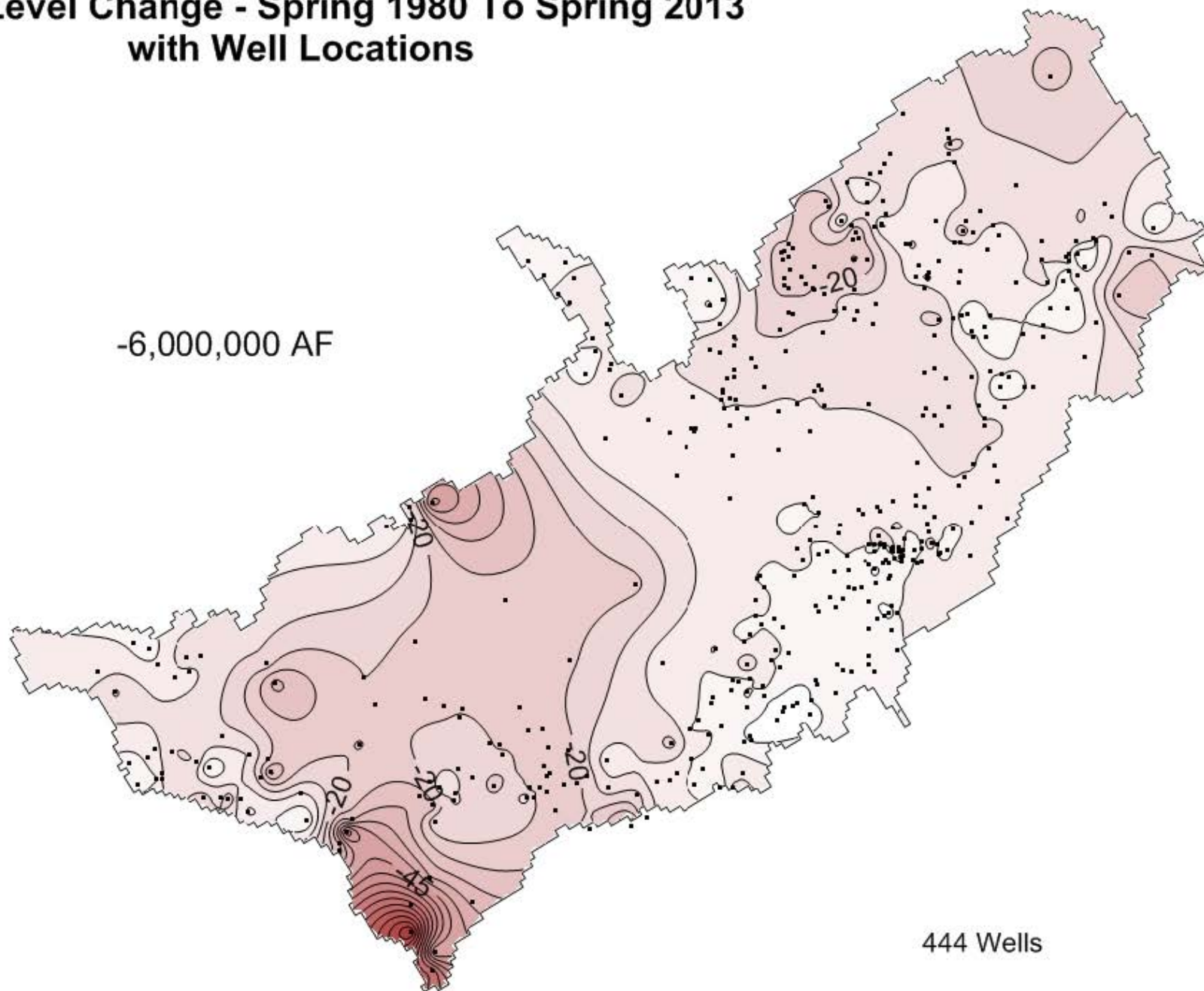
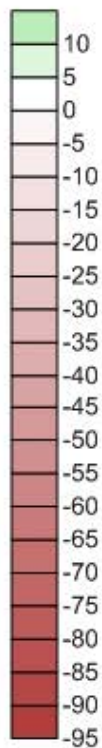
Water Level Change - Spring 1980 To Spring 2008 with Well Locations

Water Level
Change (ft)



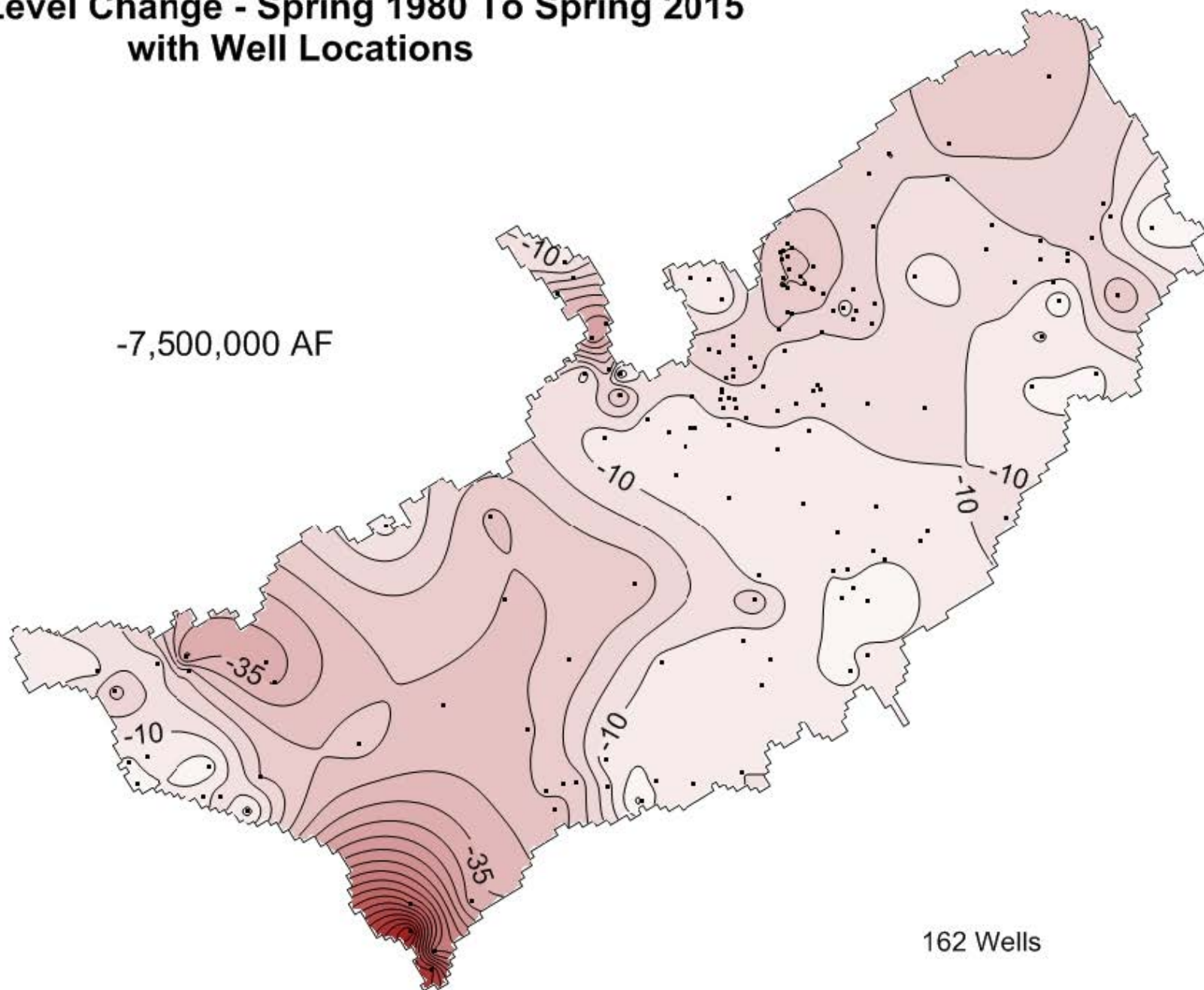
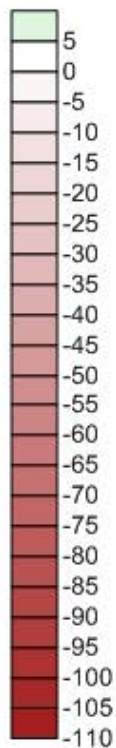
Water Level Change - Spring 1980 To Spring 2013 with Well Locations

Water Level
Change (ft)



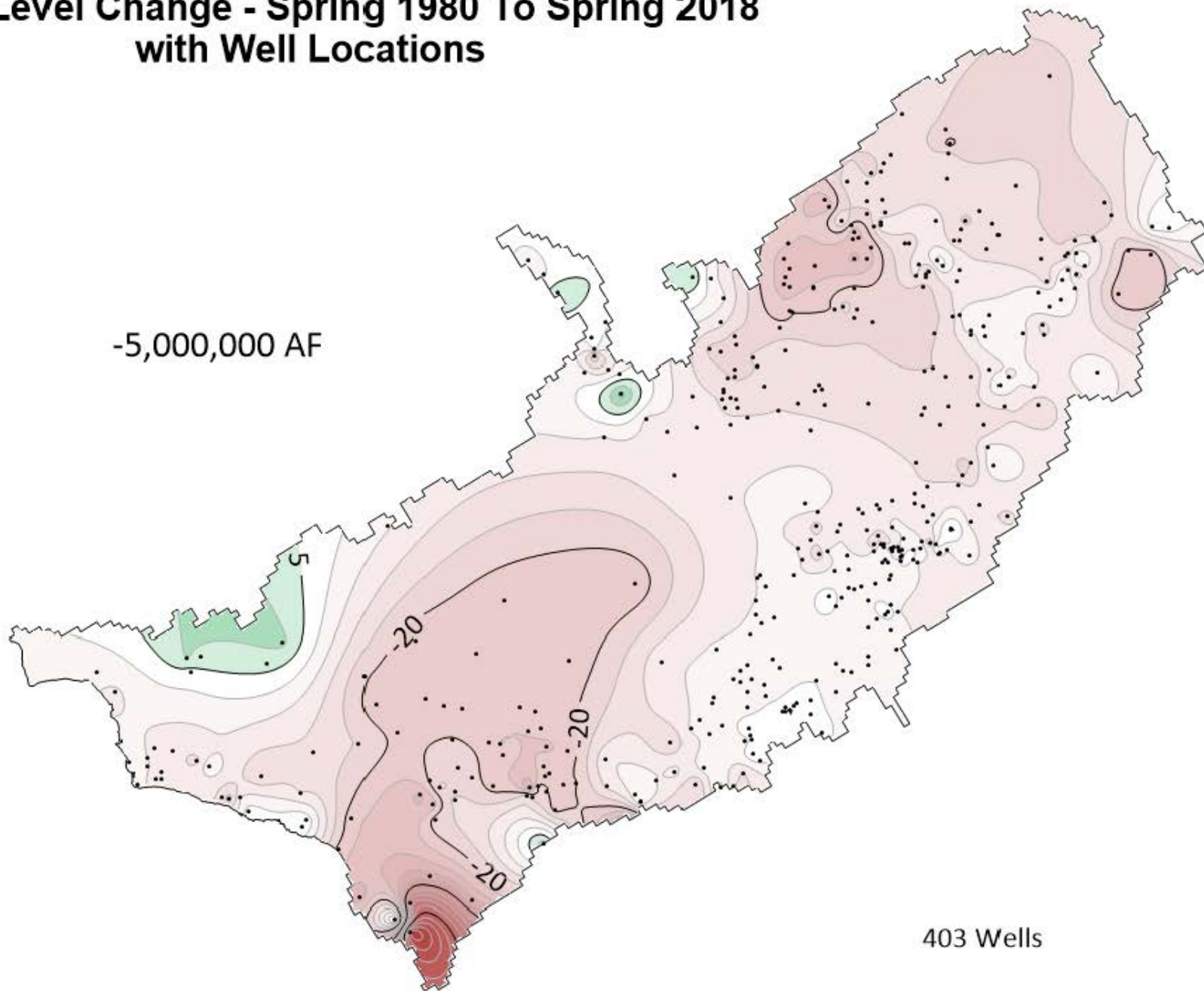
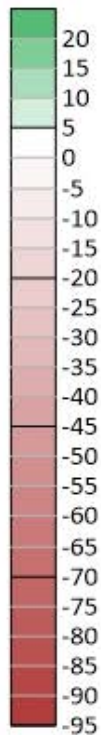
Water Level Change - Spring 1980 To Spring 2015 with Well Locations

Water Level
Change (ft)



Water Level Change - Spring 1980 To Spring 2018 with Well Locations

Water Level
Change (ft)



403 Wells

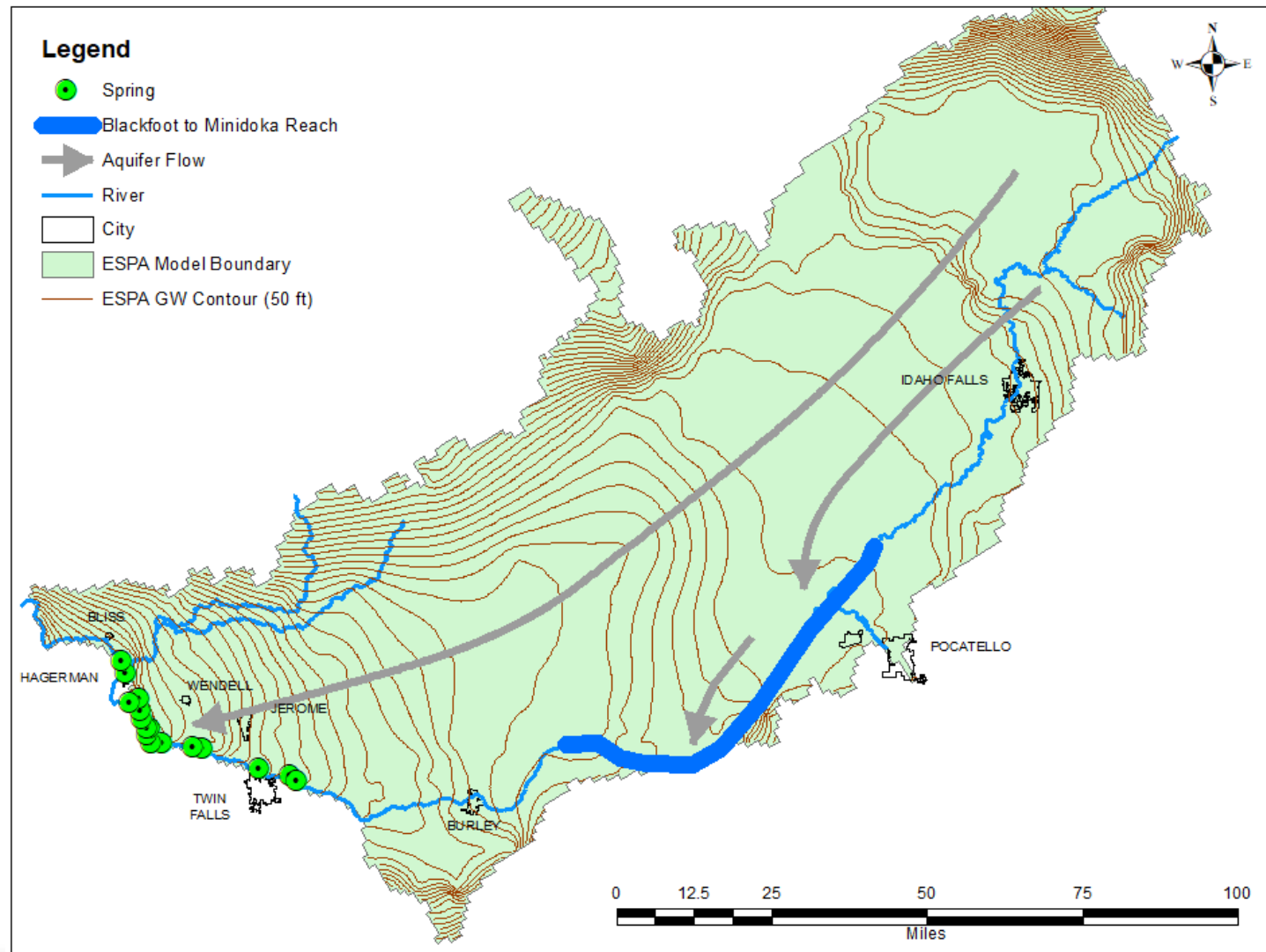
ESPA Discharge

Presented by: Matt Anders

Date: 7/30/2020



Discharge from ESPA

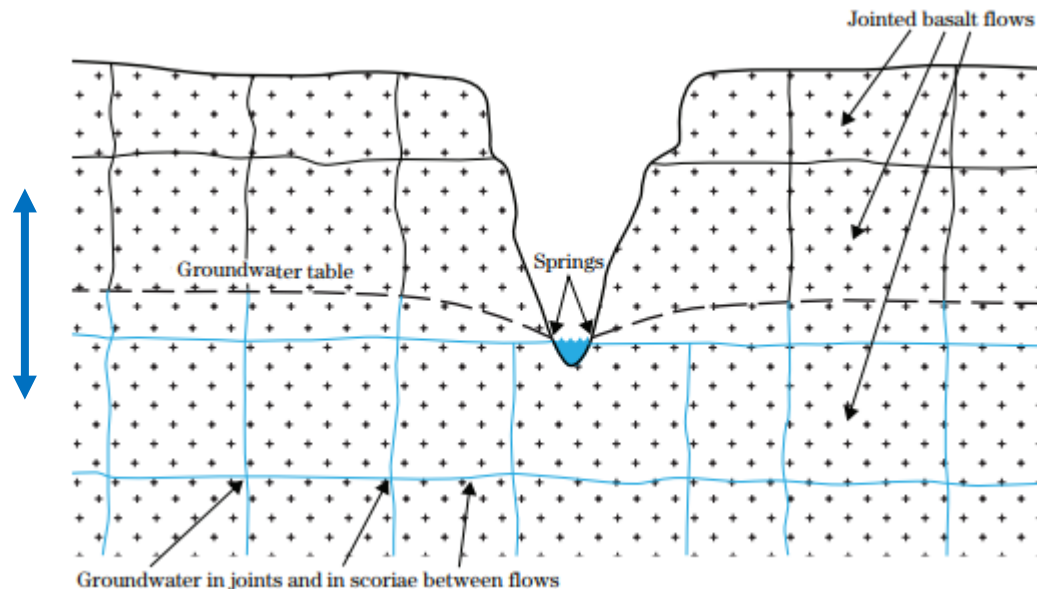


Spring Discharge on ESPA

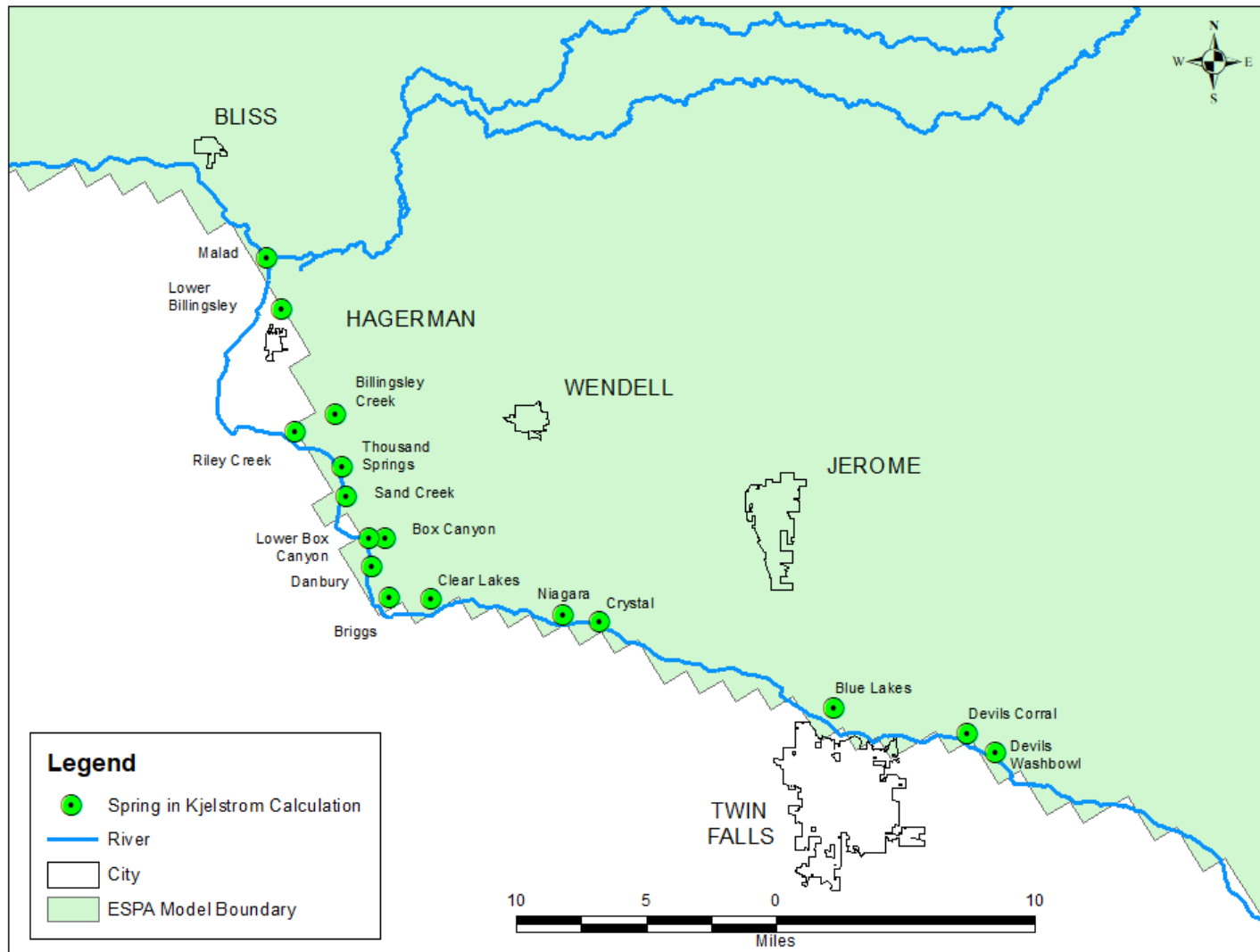


Spring Discharge on ESPA

- Springs occur when the groundwater table intersects the land surface or canyon wall.
- Discharge from springs is controlled by the water level in the ESPA. Higher water levels in the aquifer increase discharge at springs, and vice versa.



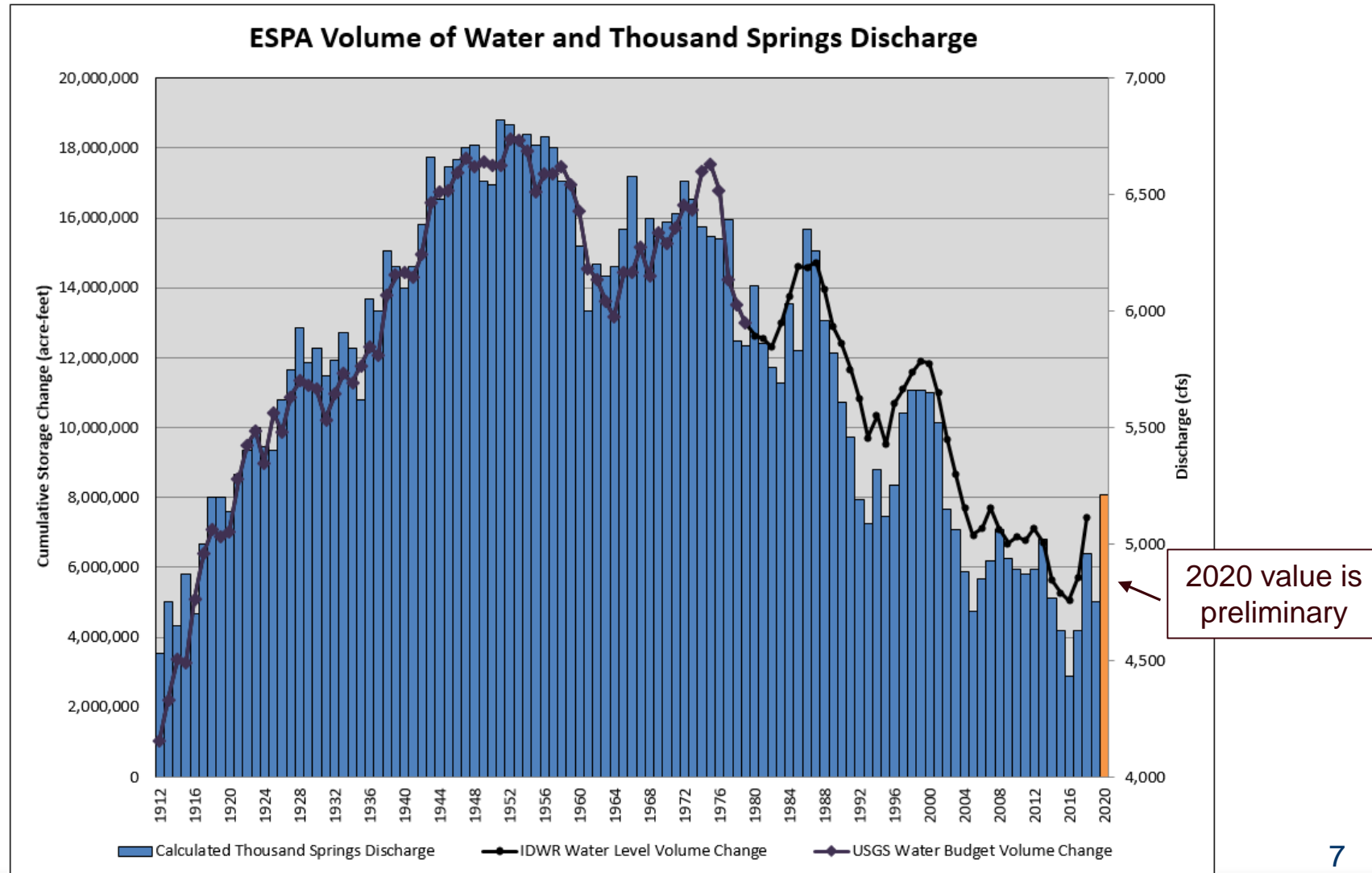
Thousand Springs Reach



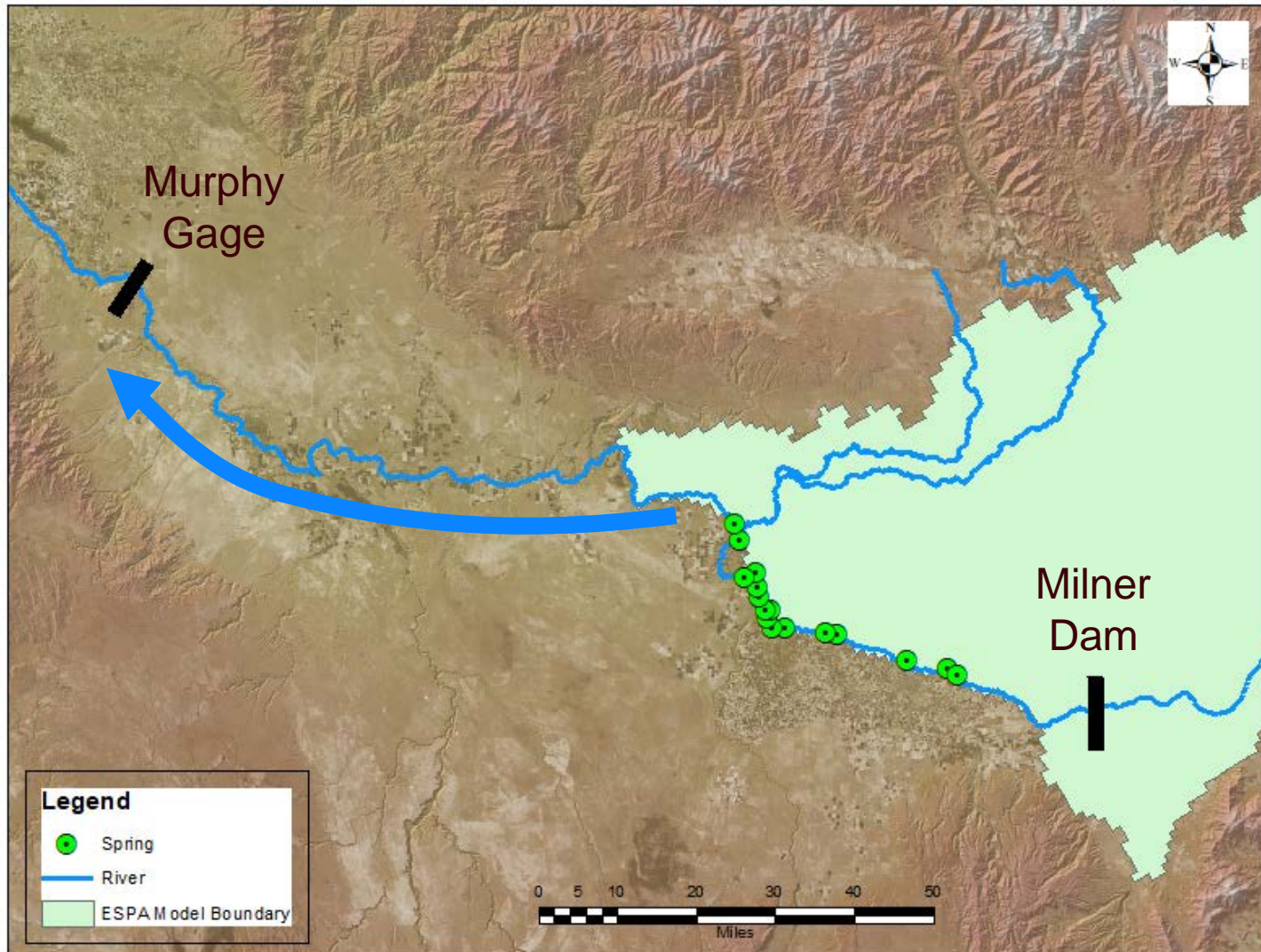
Thousand Springs Reach Discharge Estimation

- Calculation method developed by Luther Kjelstrom (USGS) in 1995.
- Springs in the Milner to King Hill reach of Snake River
- 17 discharge values for springs, springs complexes, and spring fed creeks
- Discharge values used in calculation are from discrete measurements in March-April or derived using regression equations.

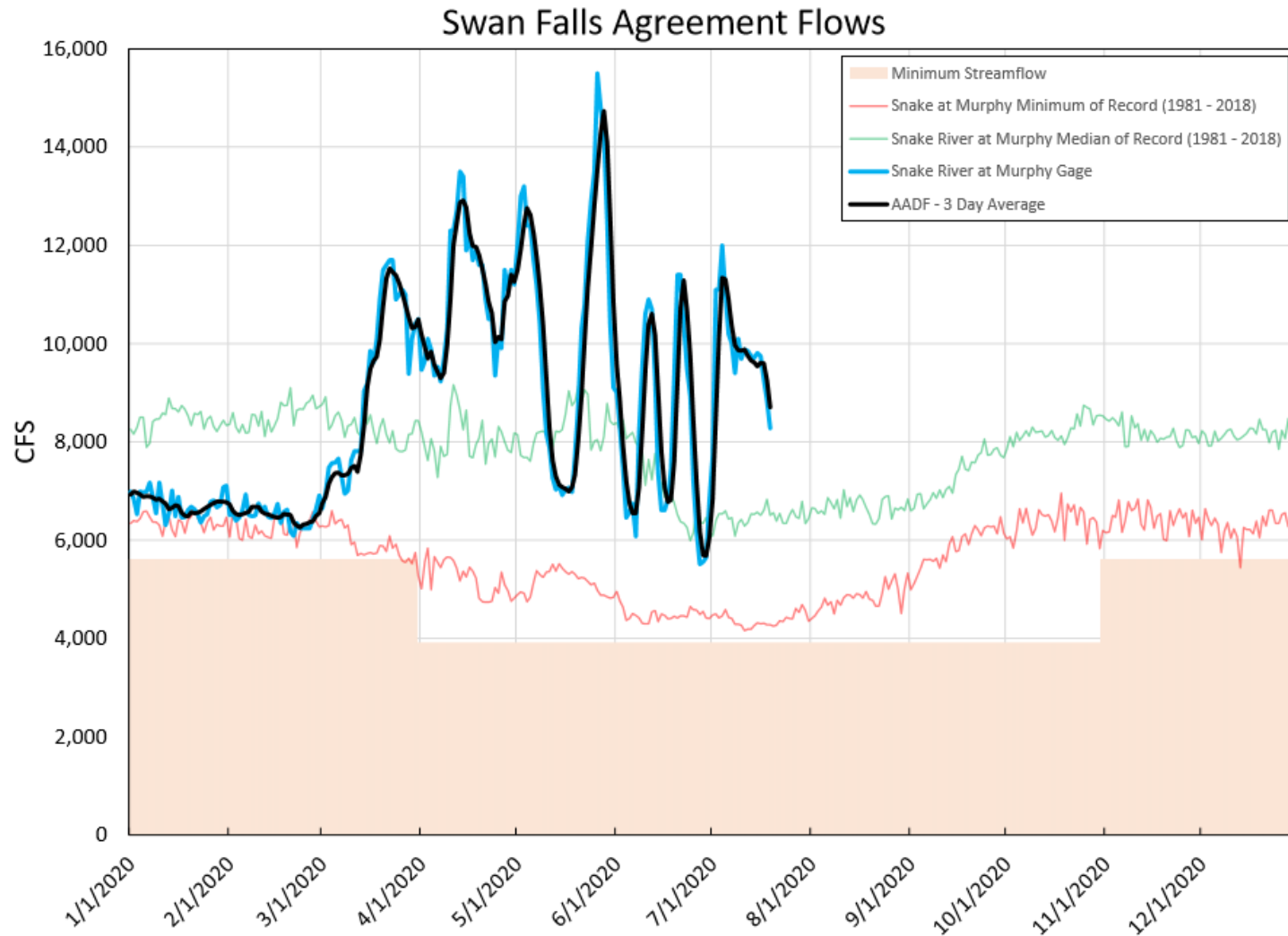
Spring Discharge – 1912 to 2019



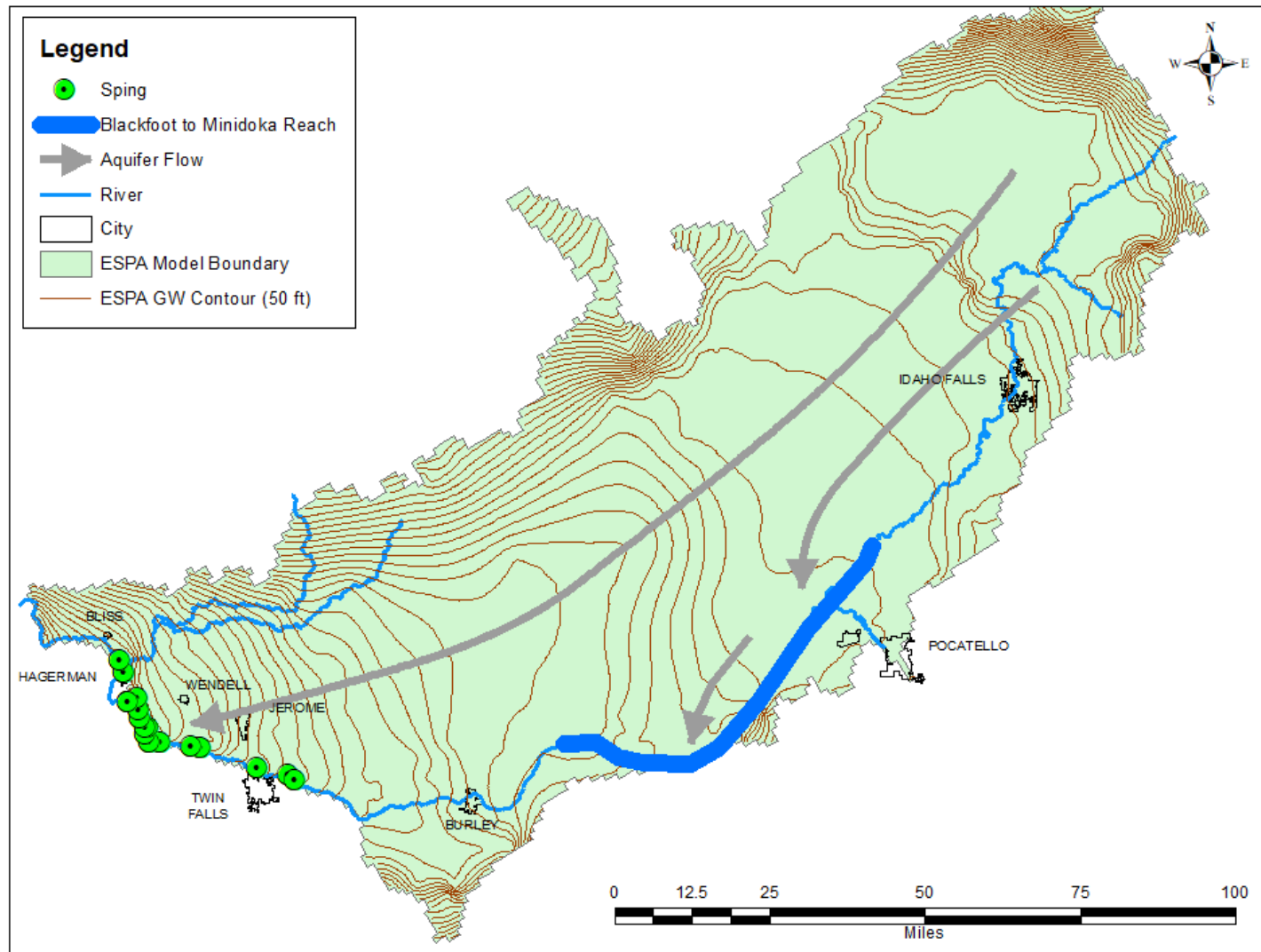
Spring Discharge – Murphy Gage



Murphy Gage – Adjusted Average Daily Flow (AADF)



Near Blackfoot-Minidoka Reach Gains



Reach Gains

- The gain or loss of water between the beginning and end of a river reach.
- $\text{Reach Gain} = \text{Outflow} - \text{Inflow} + \text{Diversions} + \text{Reservoir Change in Content} + \text{Reservoir Evaporation} - \text{Return Flow}$

Outflow is the river discharge at the end of the river reach.

Inflow is the river discharge at the beginning of the river reach.

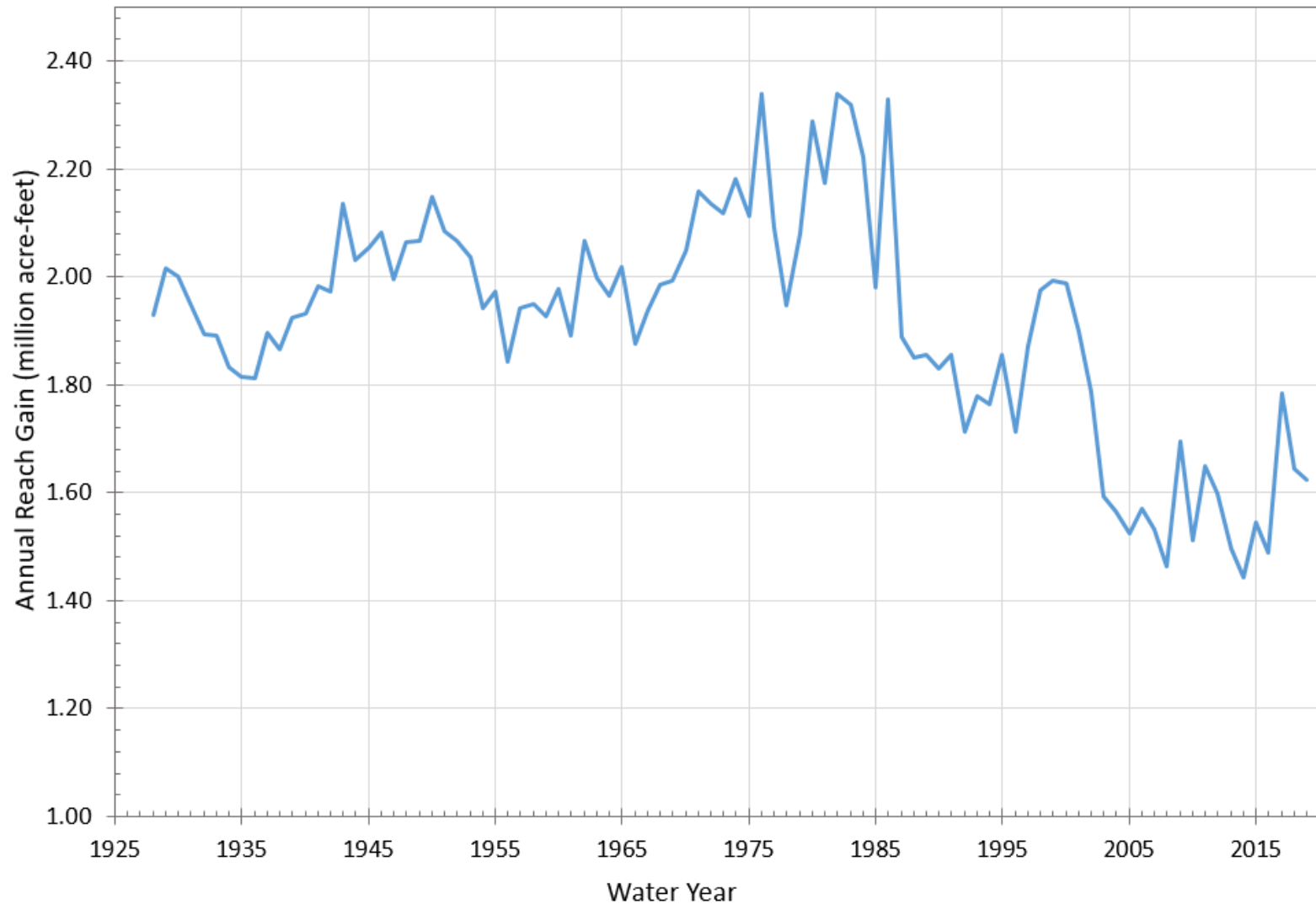
Diversions is the sum of canal and pump diversions from the river reach.

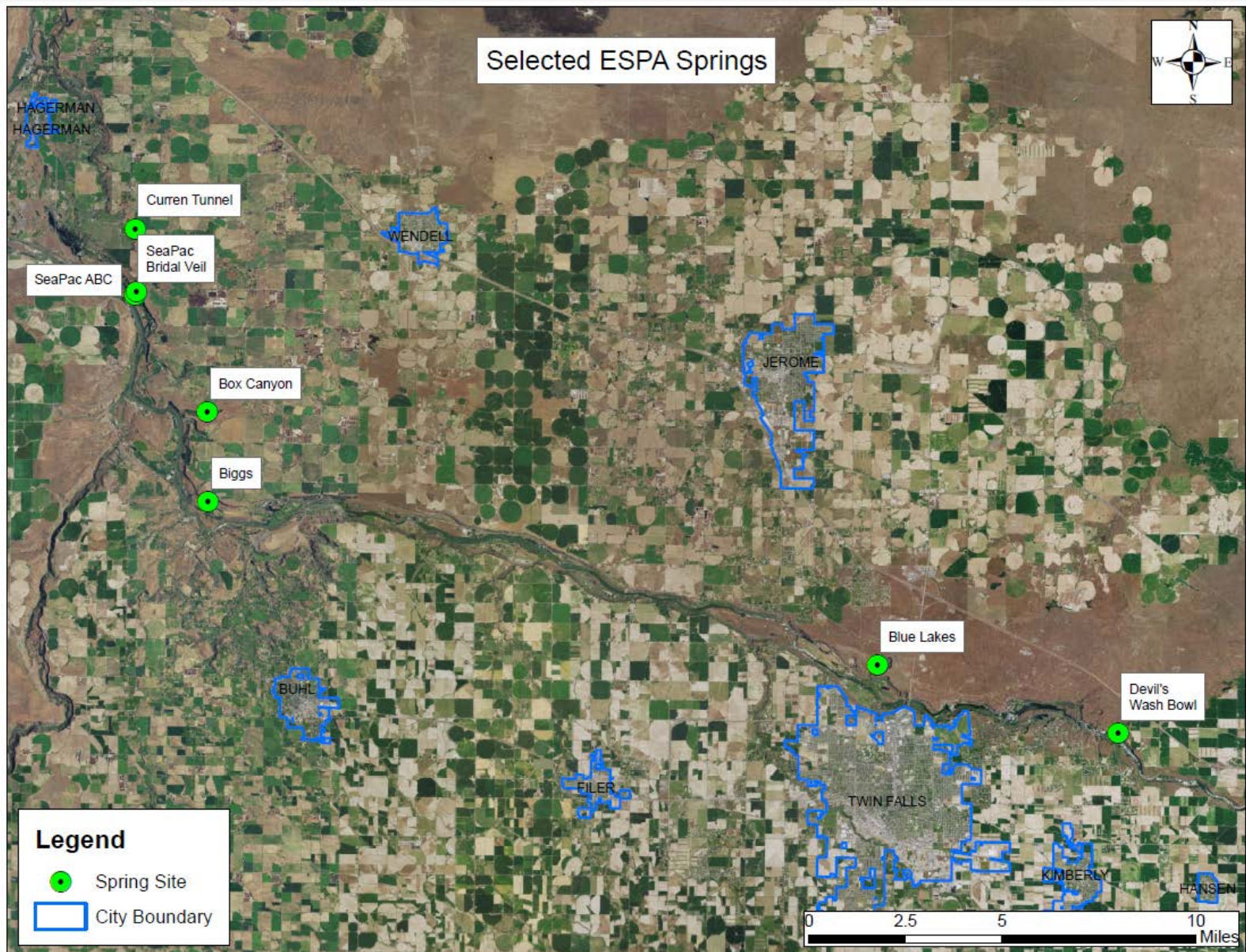
Reservoir Change in Content is the daily increase or decrease in physical content of any reservoirs within the river reach.

Reservoir Evaporation is the calculated evaporative losses from the reservoir.

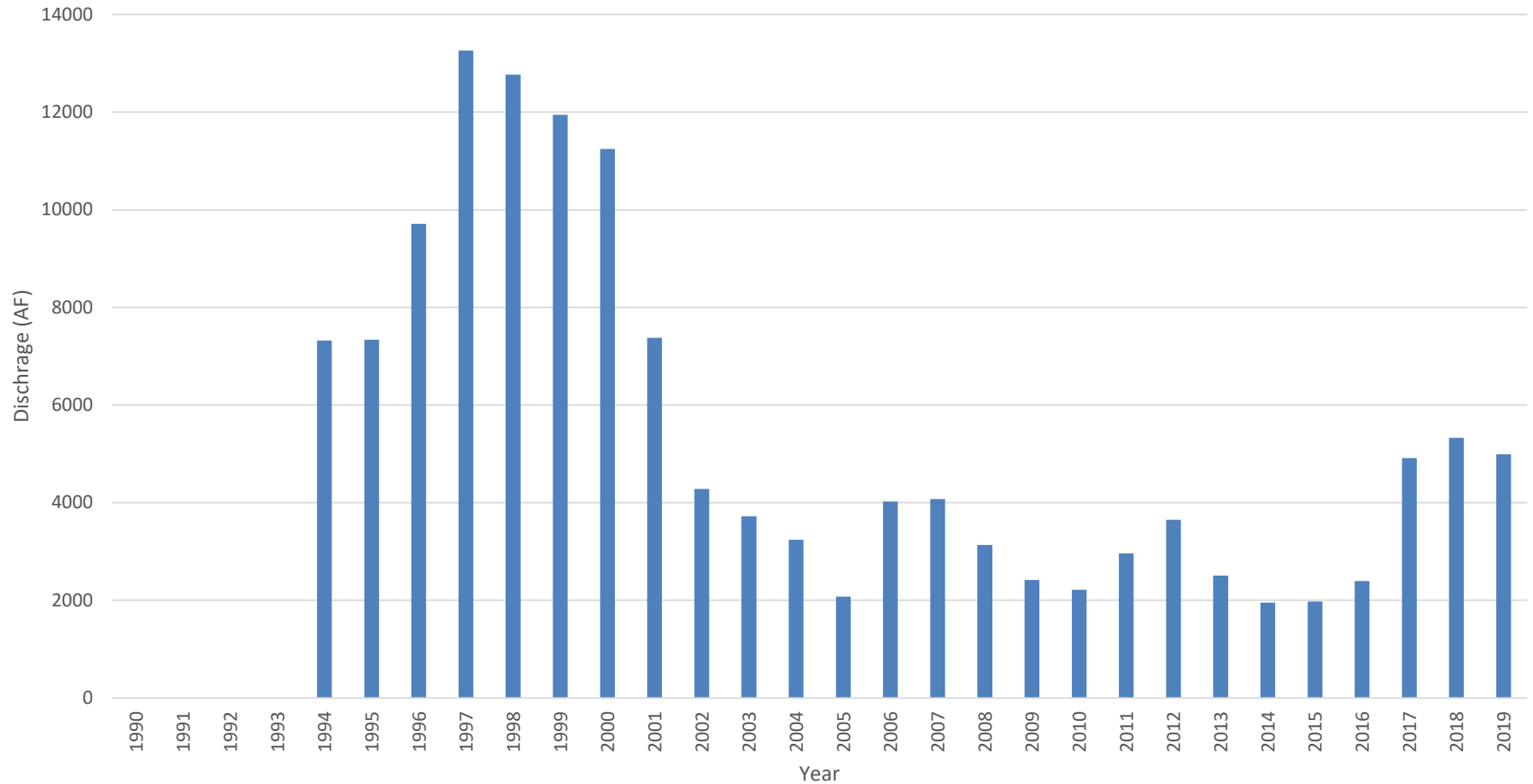
Return Flow is the unused irrigation diversion returning to the river.

Near Blackfoot to Minidoka Reach Gains – 1928 to 2019

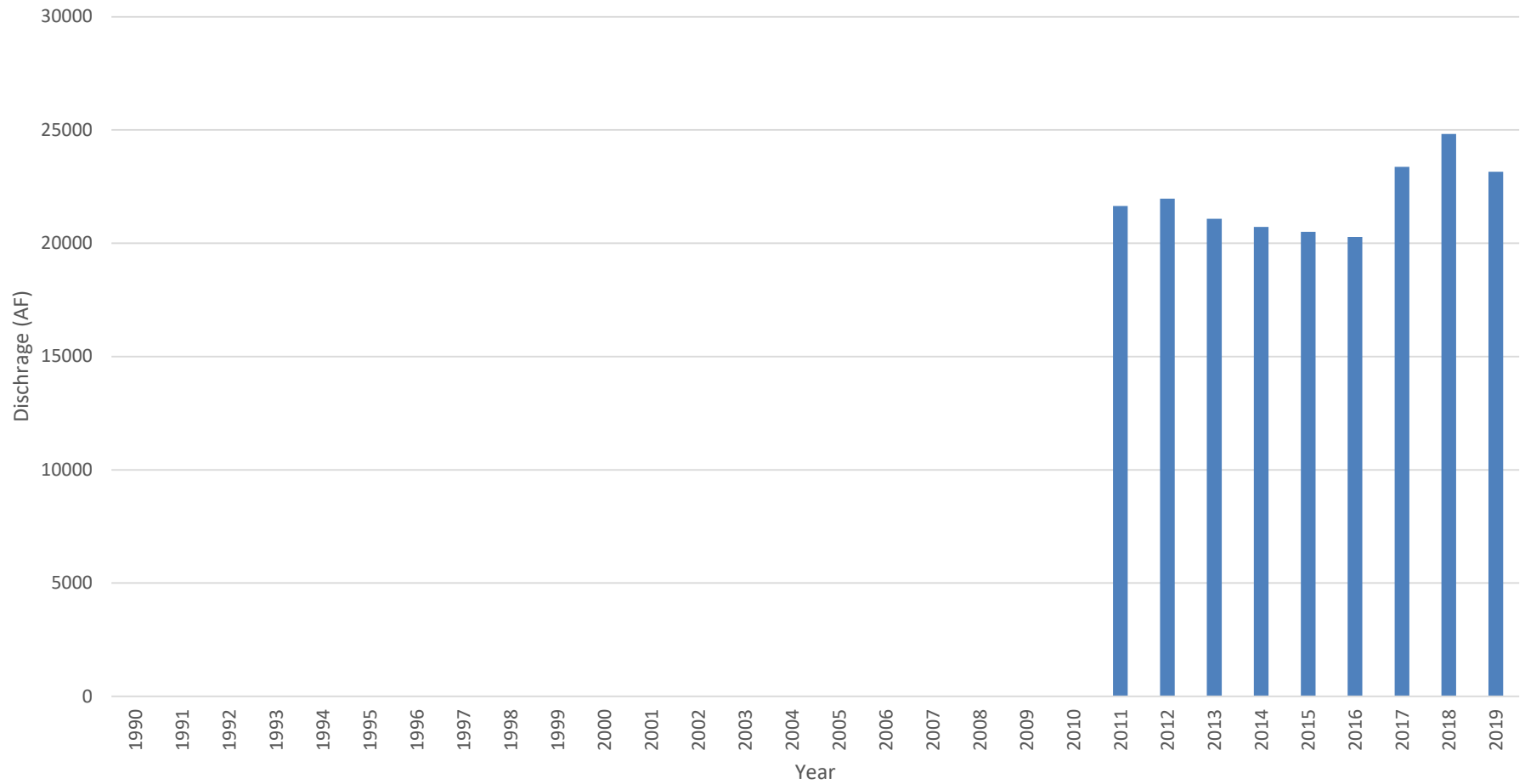




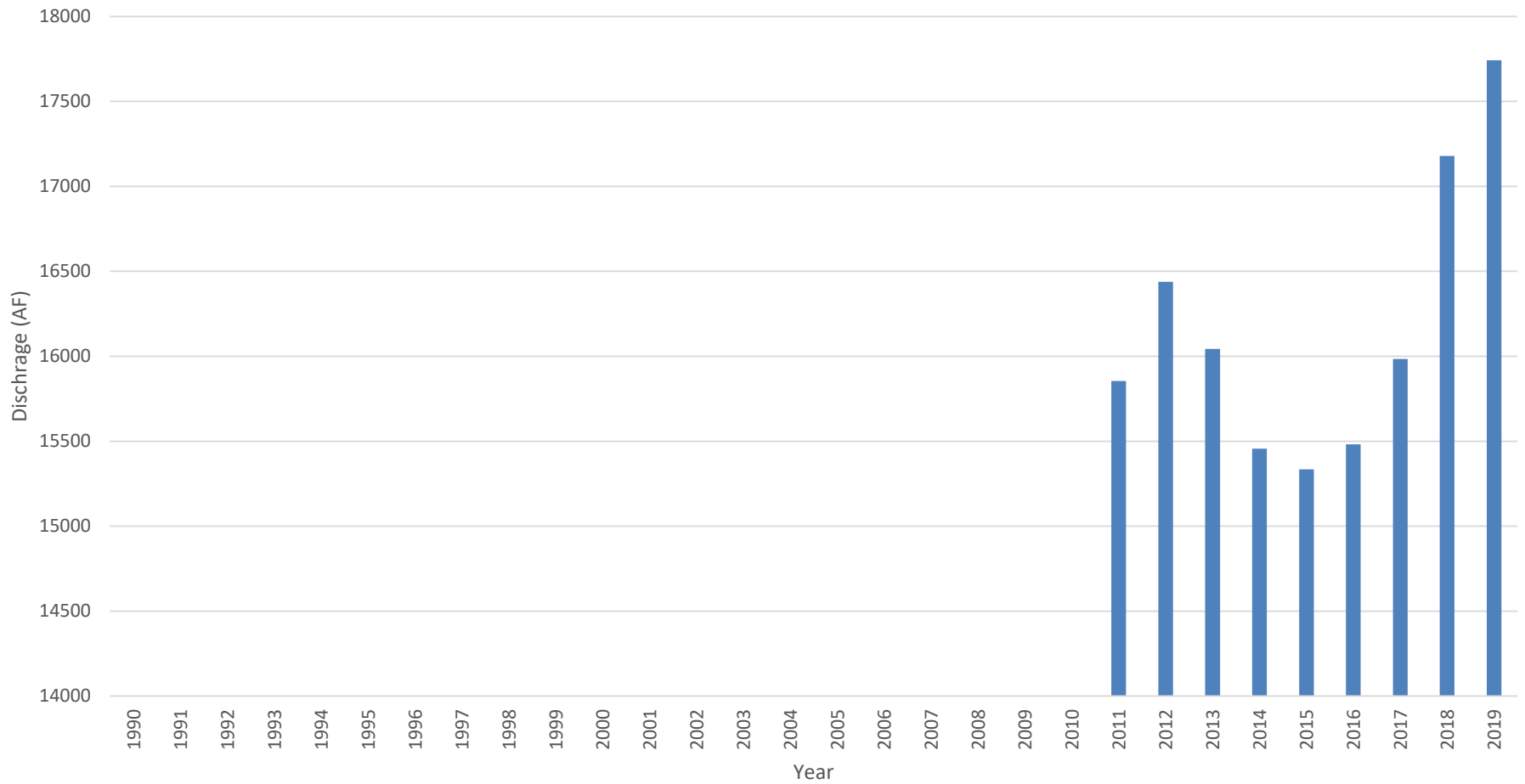
Current Tunnel - Total Discharge



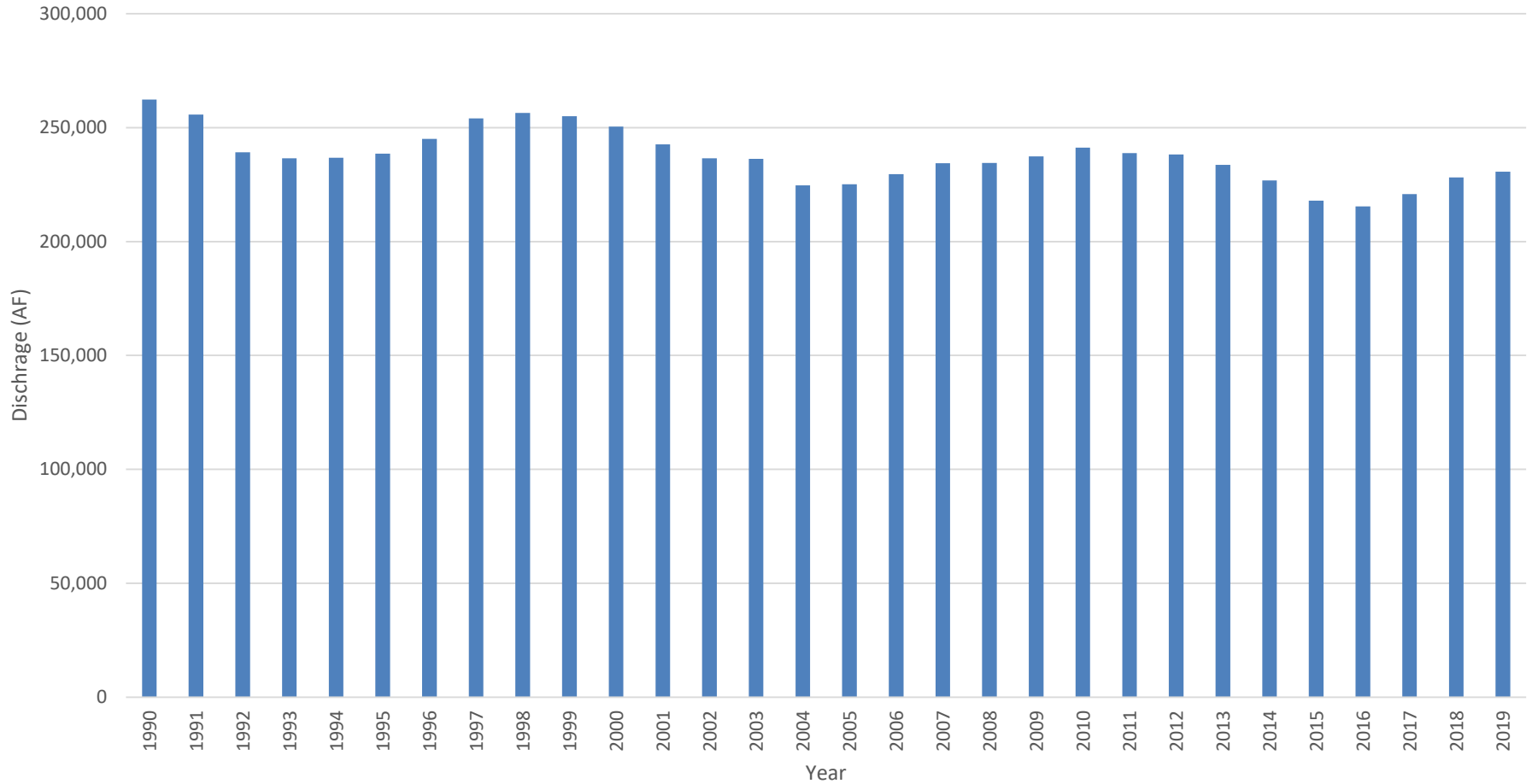
SeaPac Bridal Veil - Total Discharge



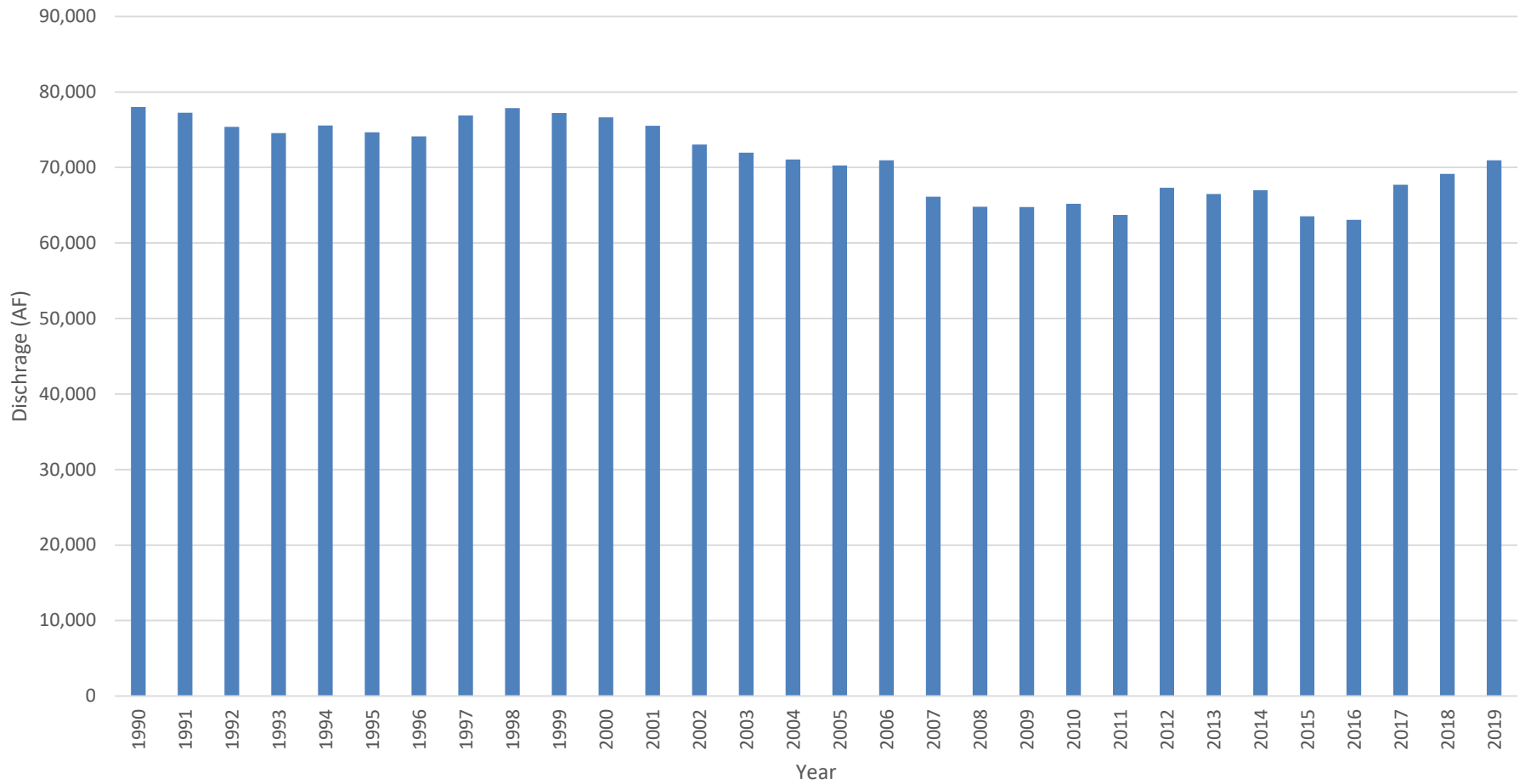
SeaPac ABC - Total Discharge



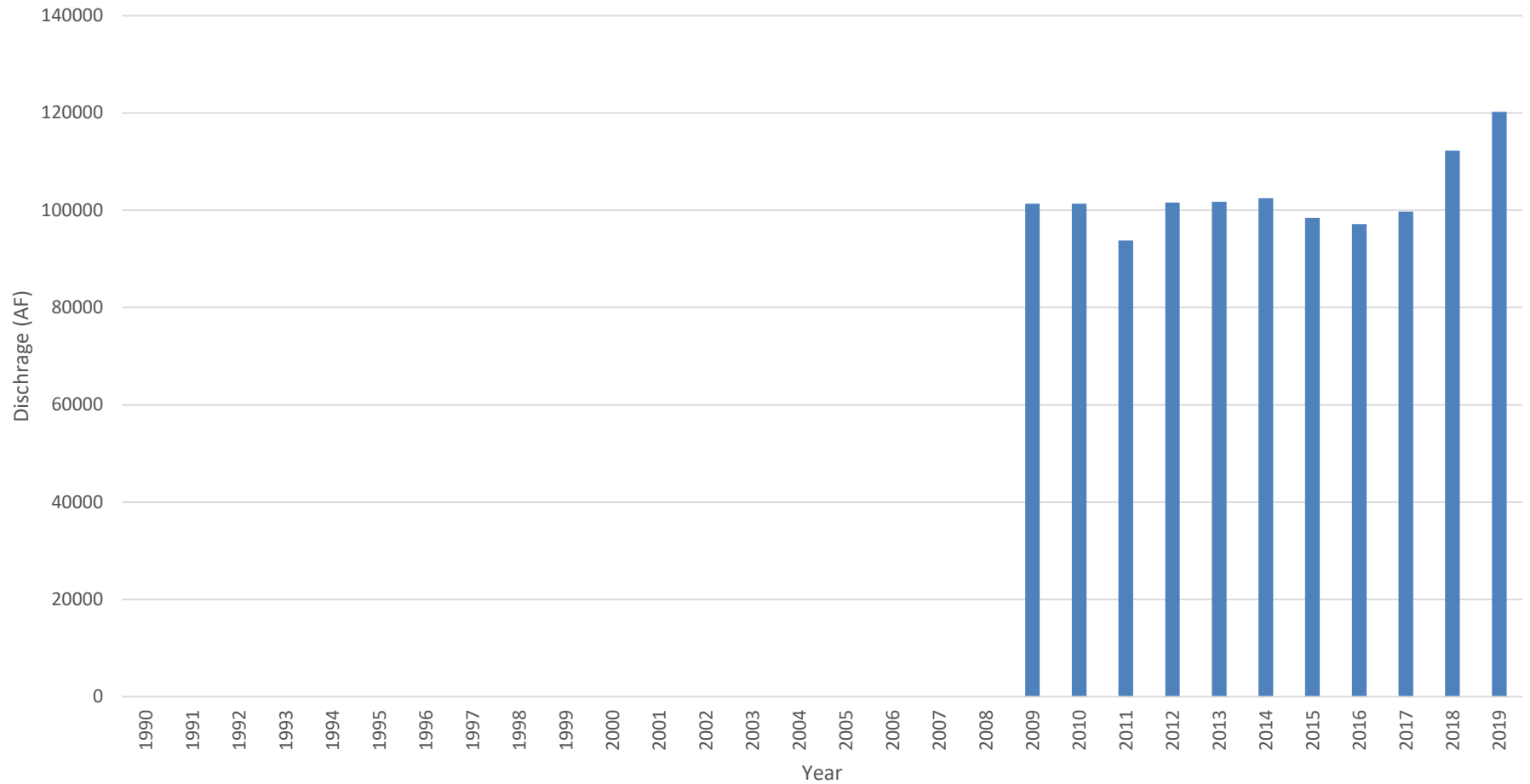
Box Canyon - Total Discharge



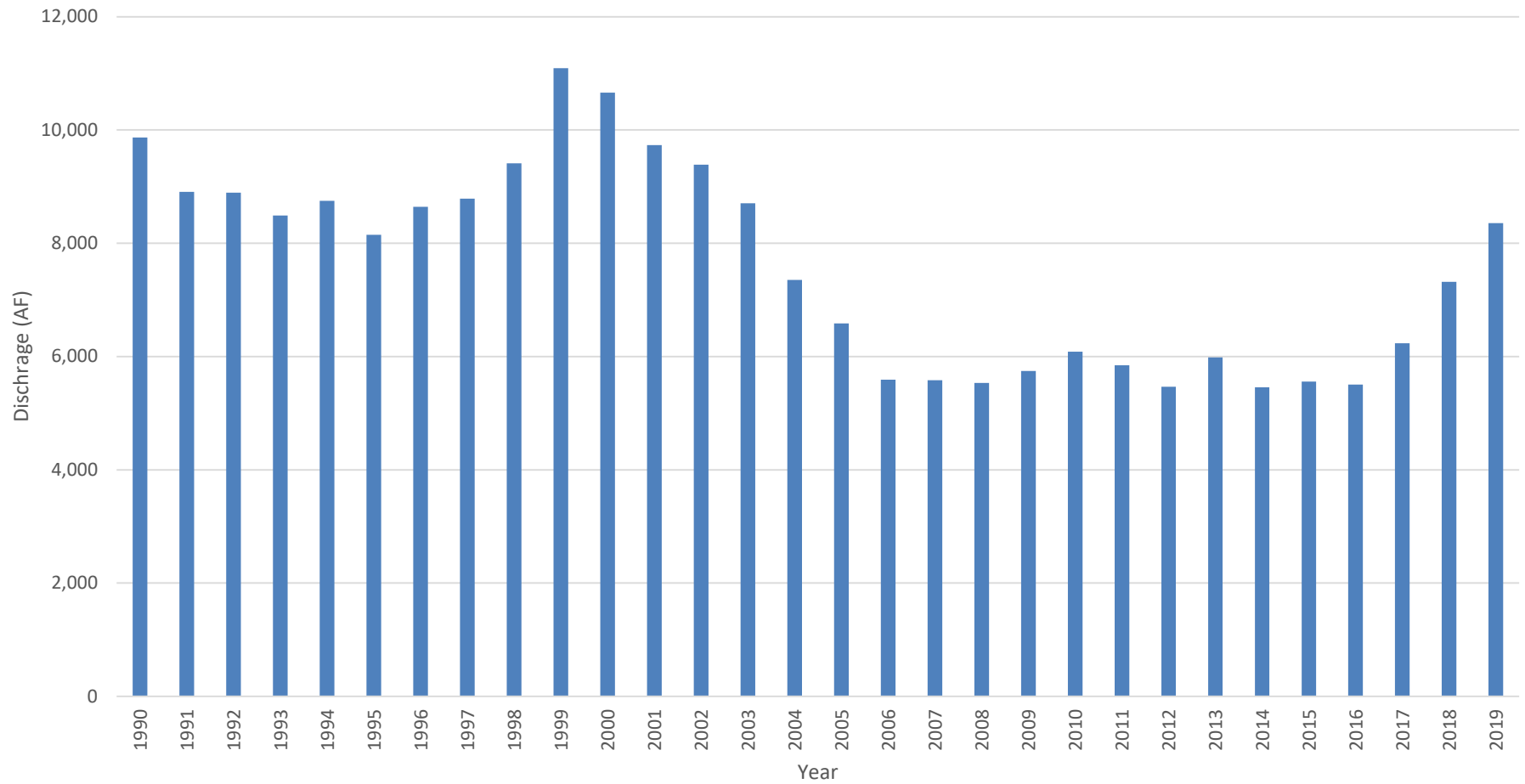
Briggs Spring - Total Discharge



Blue Lakes - Total Discharge

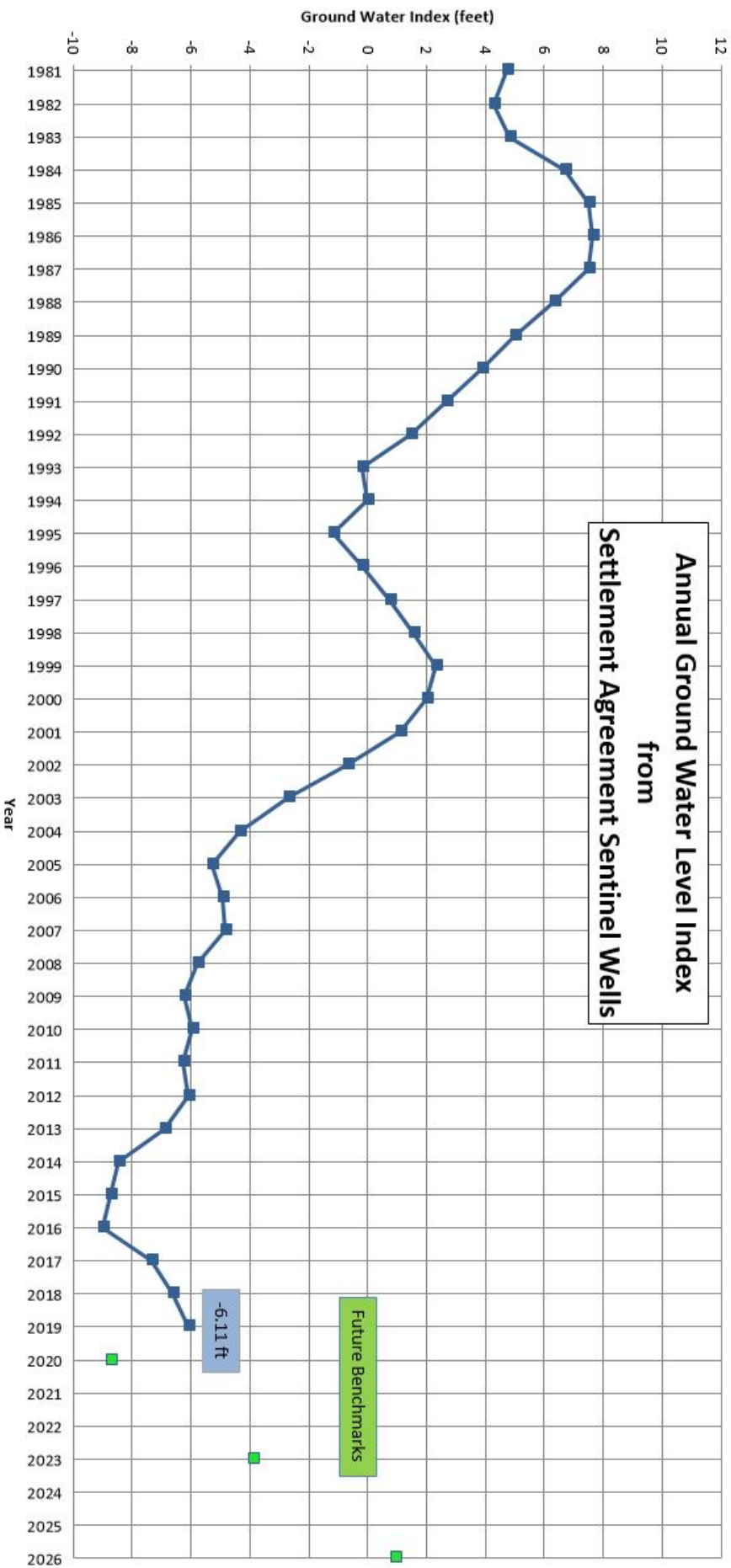


Devils Washbowl - Total Discharge



Questions?

Matt Anders
(208) 287-4932
matthew.anders@idwr.idaho.gov





ESPA Settlement Agreements: 2019 Activities

Presented by: Brian Ragan

Date: July 30, 2020



OUTLINE

1. City Settlement Agreement: 2019 Annual Progress Report
 - 2019: mitigate minimum of 1,000 acre-feet
 - 2019-2023: work towards average annual mitigation of 7,650 acre-feet
 - 2024 and beyond: maintain 5-year rolling average of at least 7,650 acre-feet
2. ID Ground Water Appropriators 2019 Annual Progress Report
 - 240,000 acre-feet reduction in GW diversion
3. Sentinel Well 2019 GW Level Index
 - Benchmark year

Table 1: 2019 Signatory City Recharge Activity Details

| City | Source of Recharge Water | Recharge Location | Recharge Date | Is location authorized? Does location meet Agreement criteria? | 2019 Recharge Amount (acre-feet) |
|-------------|---|--|---------------|---|---|
| All | City of Pocatello's Palisades Reservoir Storage | Idaho Water Resource Board: St. Anthony Union Canal | 10/7 - 11/9 | Yes. Approved method as per City Agreement II.A.2.a | 6,307.8 |
| Blackfoot | City of Blackfoot shares in Palisades Water Users', Inc. | Jensen's Grove | 4/1 - ? | Yes. Location appears in table 12 of McVay Report | 345.0 |
| Idaho Falls | Source 1. City of Idaho Falls shares in Palisades Water Users', Inc. (1074.6 acre-feet) Source 2. Temporary Permit # 25-17 (441.9 acre-feet) | Sand Creek Site | 4/18 - 10/25 | Yes. ESPAM2.1 modeled 5-year retention of 17.8% (row 77, columns 160 and 161) | 1,516.6 |

Total Recharge Volume (acre-feet) 8,169.4

Table 3: 2019 Reduction Comparison

| 1 | 2 | 3 | 4 |
|-------------------------------|-------------------------------|-------------------------------|---|
| Ground Water District | IGWA Reported Reductions (AF) | IDWR Database Reductions (AF) | IDWR % Difference Compared to IGWA (negative = IDWR < IGWA) |
| Aberdeen - American Falls GWD | 35,243 | 39,288 | 11.5 |
| Bingham GWD | 44,244 | 43,547 | -1.6 |
| Bonneville - Jefferson GWD | 19,030 | 23,230 | 22.1 |
| Carey Valley GWD | 4,787 | 1,876 | -60.8 |
| Jefferson - Clark GWD | 52,922 | 50,441 | -4.7 |
| Henry's Fork GWD | 50,361 | 16,996 | -66.3 |
| Magic Valley GWD | 61,001 | 61,390 | 0.6 |
| North Snake GWD | 30,225 | 32,021 | 5.9 |
| Total: | 297,813 | 268,789 | -9.7 |

Table 4: 2019 Recharge Contract Confirmation

| IGWA Reported Data | | | | | IDWR Contract Confirmation | |
|--------------------|-----------------|-------------------------------------|-----------------------------|-----------------------------|----------------------------|----------------------|
| District | Volume (AF) | Location Recharged | Source Type | Type | Contract Confirmed | Contract Amount (AF) |
| AB-AF GWD | 26,572 | Aberdeen Springfield Hilton Spill | District Natural Flow | Natural Flow Permit 1-10629 | Confirmed | 26,572 |
| AB-AF GWD | 2,500 | Recharge Development Corporation | various | | No | -- |
| AB-AF GWD | 13,974 | Snake River Storage | Natural Flow and Storage | | No | -- |
| Sub-Total: | 43,046 | | | | Sub-Total: | 26,572 |
| Bingham GWD | 602 | Various | Storage Lease | | No | -- |
| Bingham GWD | 3,117 | Various | Storage Lease | | No | -- |
| Bingham GWD | 2,100 | Various | Storage Lease | | No | -- |
| Bingham GWD | 927 | Various | Storage Lease | | No | -- |
| Bingham GWD | 241 | Corbett Slough Canal | Storage Lease | Temp Water Permit TP-01-93 | Confirmed | 8,400 |
| Bingham GWD | 640 | Various | Storage Lease | | No | -- |
| Bingham GWD | 113 | Watson Canal | Storage Lease | Temp Water Permit TP-01-91 | Confirmed | 4,200 |
| Bingham GWD | 173 | Wearyrick Ditch | Storage Lease | Temp Water Permit TP-01-94 | Confirmed | 3,440 |
| Bingham GWD | 185 | Riverside Canal | Storage Lease | Temp Water Permit TP-01-90 | Confirmed | 6,600 |
| Bingham GWD | 12,500 | Various | Lease and Natural Flow | | No | -- |
| Bingham GWD | 1,474 | Various | Lease and Natural Flow | | No | -- |
| Sub-Total: | 22,072 | | | | Sub-Total: | 22,640 |
| Bonn - Jeff GWD | 5,000 | Snake River Valley ID | Storage Rental | Storage Lease | Confirmed | 5,000 |
| Bonn - Jeff GWD | 5,000 | Snake River Valley ID | Natural Flow | | No | -- |
| Bonn - Jeff GWD | 1,676.9 | Snake River Storage | Natural Flow/Storage Rental | | Confirmed | 1,677 |
| Bonn - Jeff GWD | 1,000 | Harrison Canal | Storage Rental | | Confirmed | 1,000 |
| Bonn - Jeff GWD | 10 | New Sweden ID | Storage Rental | | Confirmed | 11 |
| Bonn - Jeff GWD | 458 | Snake River Valley ID | Storage Rental | | Confirmed | 458 |
| Bonn - Jeff GWD | 458 | Snake River Valley ID | Natural Flow | | Confirmed | 458 |
| Bonn - Jeff GWD | 500 | Snake River Valley ID | Storage | | Confirmed | 500 |
| Sub-Total: | 14,102.9 | | | | Sub-Total: | 9,104 |
| MV GWD | 6,500 | AFRD #2 MP31 | IGWA Storage Rental | Storage Lease | Confirmed | 6,500 |
| Sub-Total: | 6,500 | | | | Sub-Total: | 6,500 |
| JC GWD | 4,544.0 | Fremont Madison Irrigation District | | | No | -- |
| JC GWD | 1,451.0 | Monteview | | | No | -- |
| JC GWD | 838 | Dewey Canal | | | No | -- |
| Sub-Total: | 6,833 | | | | Sub-Total: | 0 |
| HF GWD /Mad. GWD | 3,000 | Various FMID Sites | Water Supply Bank Rental | Water Supply Bank Rental | Confirmed | 3,000 |
| Sub-Total: | 3,000 | | | | Sub-Total: | 3,000 |
| NS GWD | 4,890.2 | Sandy Ponds | Waste Water | Waste Water | Confirmed | 4,127 |
| Sub-Total: | 4,890 | | | | Sub-Total: | 4,127 |
| Grand Total | 100,443 | | | | Grand Total | 71,943 |

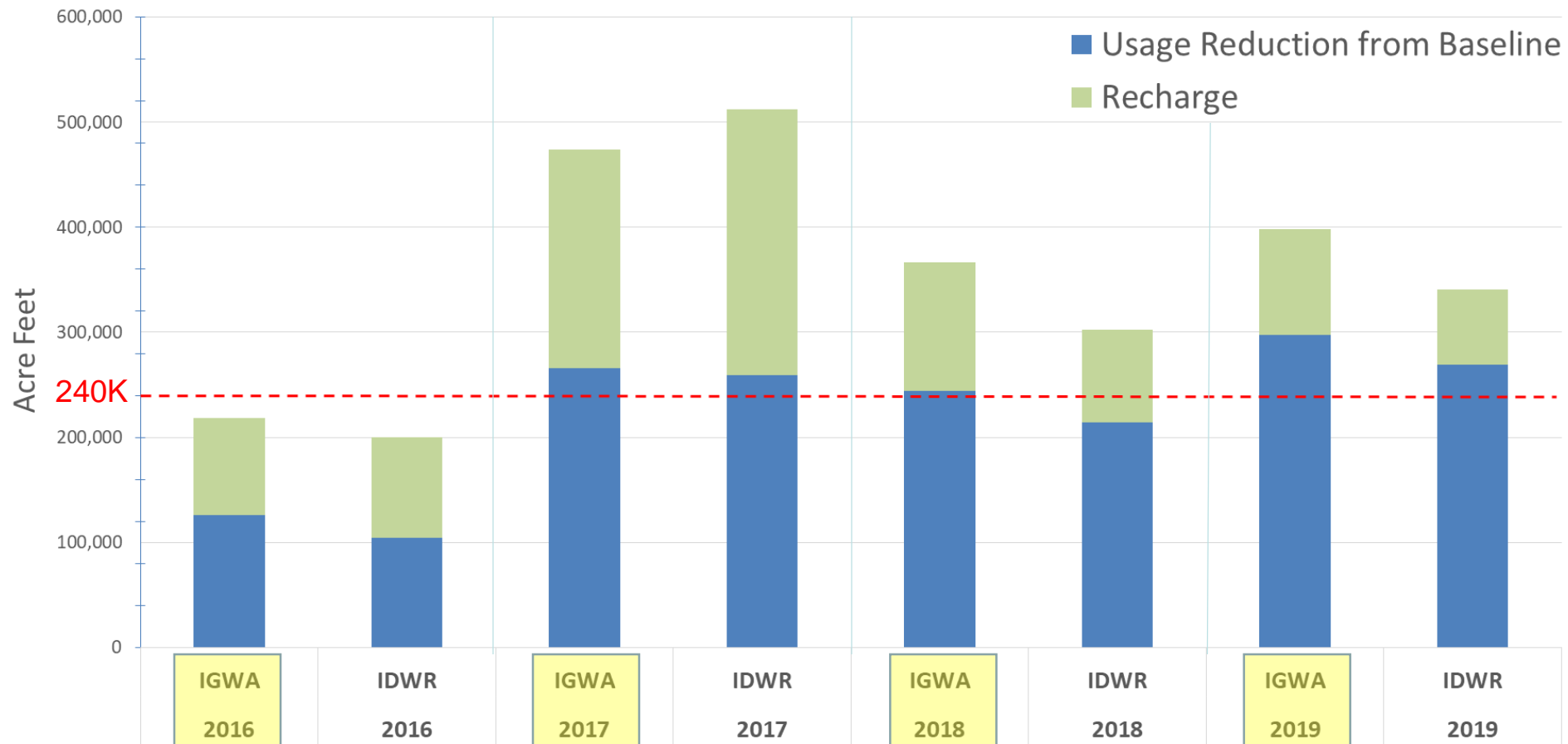
IGWA

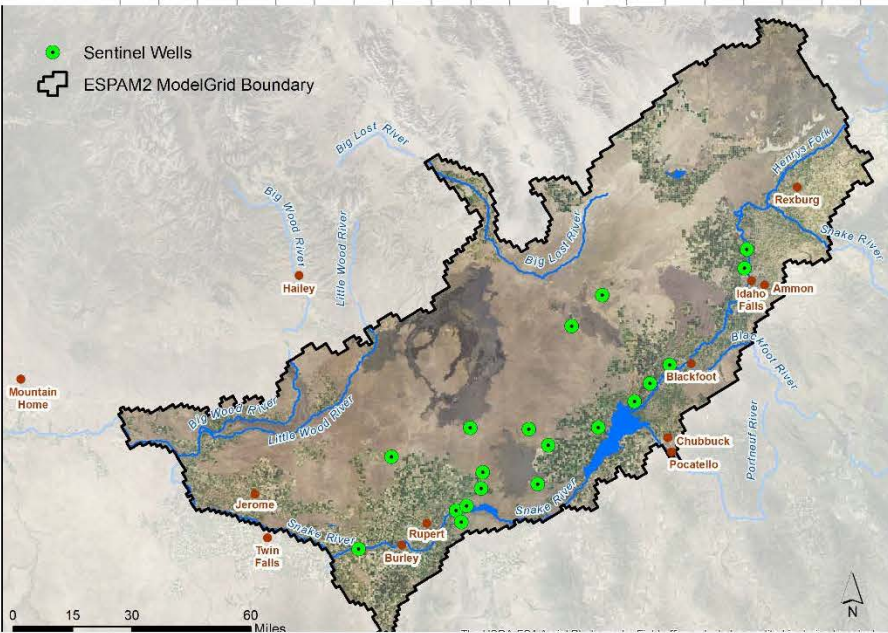
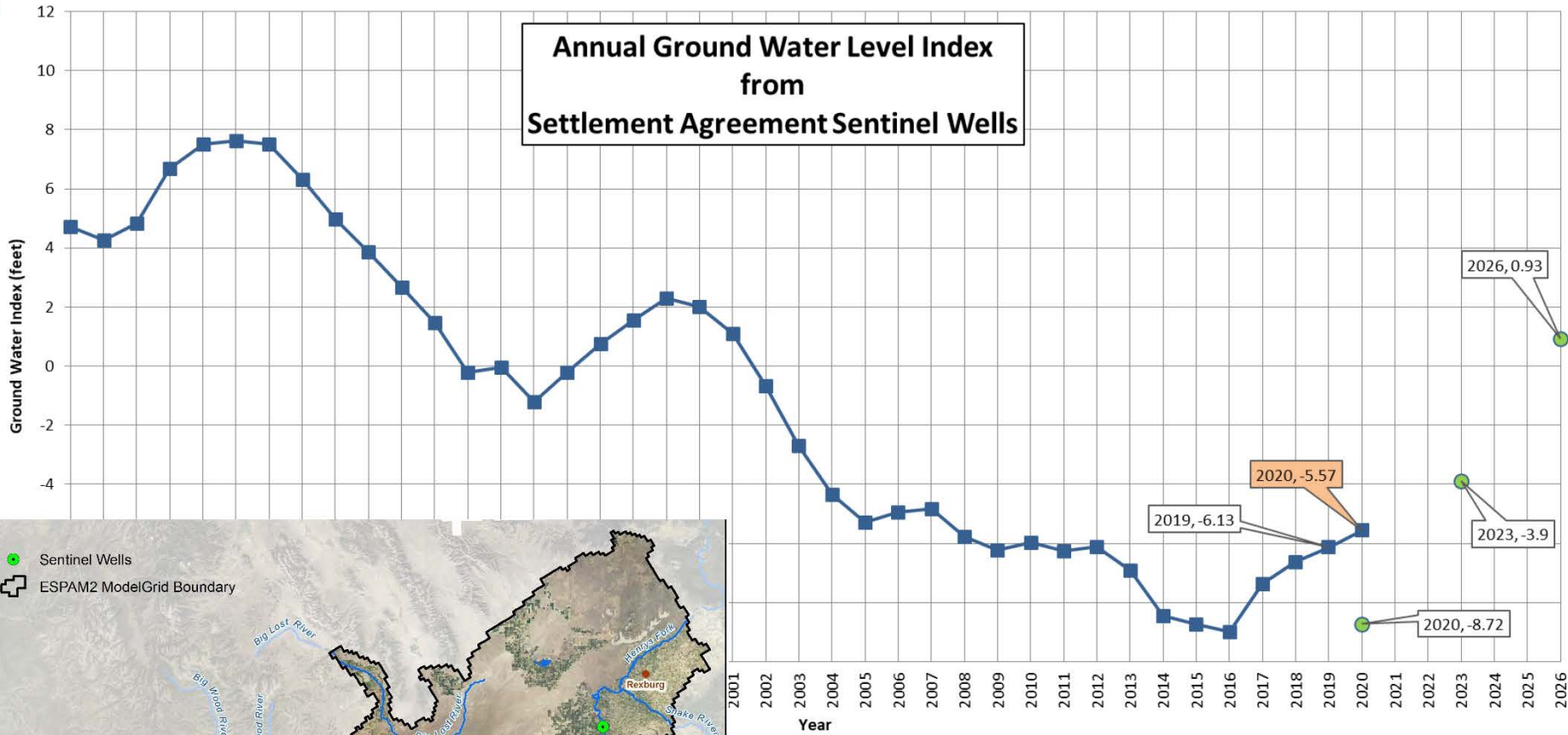
100,443 af

IDWR

71,943 af

Annual Comparison of Reduction and Recharge Data Reported by IGWA and IDWR





Memorandum

To: Idaho Water Resource Board
From: Noah Stewart-Maddox
Date: July 22, 2020
Re: ESPA Water Level Change Animation



Staff will present an ESPA water level change animation for the period from March 2016 to March 2020. The animation provides a way of showing how the aquifer changes within a specific year and the cumulative change over the past four years. The ESPA transducer water level network and the ESPA synoptic water level measurements, conducted twice a year, provide the base data used to construct the animation.

Memorandum

To: Idaho Water Resource Board
From: Neeley Miller & Rick Collingwood, Planning & Projects Bureau
Date: July 22, 2020
Re: Flood Management Grant Applications and Ranking



Action: Consider resolution to award funds for 2020 Flood Grant Projects

FY 2020 Flood Management Grant Program

House Bill 646 passed and approved by the 2020 Legislature included a \$1,000,000 transfer from the General Fund transferred to the Water Management Fund, with \$800K for the Flood Management Grant Program and \$200K for the Mid-Snake Water Quality Monitoring and Modeling effort.

On April 3, 2020 the IWRB adopted by resolution proposed criteria establishing an application deadline of Friday June 19, 2020. Staff received a total of fourteen (14) applications. The applications and sponsor's grant documents were evaluated, scored, and ranked according to criteria adopted by Board. See the attached summaries and ranking sheet.

On July 8, 2020 the Finance Committee staff reviewed the applications, evaluation scores, and rankings, but did not make a recommendation to the Board.

Attachment(s):

2020 Flood Management Grant Project Summaries
Funding Resolution w/attached Application Ranking Sheet

2020 FLOOD MANAGEMENT GRANT PROJECTS SUMMARIES & RANKINGS

1. LEWIS SOIL CONSERVATION DISTRICT – Alpine Flood Mitigation Project

Lewis Soil Conservation District is requesting a \$18,425.30 IWRB flood management grant for the \$46,709.30 Alpine Road Flood Mitigation project. The remaining matching funding of \$28,284.00, which is a combination of cash matching funds and in-kind services, will be provided by the Lewis Soil Conservation District, Prairie Highway District, and the Idaho Transportation Department. The goal of the project is to reduce flooding at the intersection of Alpine Road, Powerline Road, and State Highway 64, by replacing the existing undersized culverts with larger culverts designed to convey the 50-year storm event, and sediment deposition to Sixmile Creek. The project is located Lewis County near Nez Perce, Idaho. Flooding events that exceed the 10-year to 25-year flows overtop the intersection, requiring the Prairie Highway District and the Idaho Transportation Department to repair and regrade the intersection after each flooding event. The proposed culvert replacements will reduce ongoing road repairs and site grading.

2. CLEARWATER SOIL & WATER CONSERVATION DISTRICT – Louse Creek Flood Mitigation Project

The Clearwater Soil & Water Conservation District is requesting a \$24,687.00 IWRB flood management grant for the \$56,453.00 Louse Creek Flood Mitigation project. The remaining matching funding of \$31,766.00, which is a combination of cash matching funds and in-kind services, will be provided by Clearwater County and the District. The project is located in Clearwater County near Cavendish, Idaho. The goal of the project is to mitigate overtopping of Newman Road, causing damage to the road and sediment deposition to Louse Creek, and impacting crop yields by flooding of agricultural land by replacing the undersized culvert with a larger culvert that will convey the 50-year to 100-year flood flows. Along with the larger culvert, Newman Road will be raised to accommodate the large culvert and further reduce the risk of flood flows overtopping the road.

3. CITY OF BELLEVUE – Lower Howard Preserve Flood Mitigation Project

City of Bellevue is requesting a \$57,880.00 IWRB flood management grant for the \$120,980.00 Lower Howard Preserve Flood Mitigation project. The remaining matching funding of \$63,100.00, which is a combination of cash matching funds and in-kind services, will be provided by the City of Bellevue, Flood Control District No.9, and the Wood River Land Trust. The goal of the project is to reduce flooding impacts to downstream residences and decrease erosion and loss of landowner's property. To achieve these goals, improvements to the main channel of the Big Wood River to reduce flow velocities by constructing grade control features and reconnecting the river to the floodplain and side channel, which will also improve fish and wildlife habitat.

4. TWIN FALLS CANAL CO. & CITY OF TWIN FALLS – Alvin Allen Flood Mitigation Project

Twin Falls Canal Company and the City of Twin Falls is requesting a \$51,000.00 IWRB flood

management grant for the \$101,924.00 Alvin Allen/O Coulee Flood Mitigation project. The remaining matching funding of \$50,924.00, which is a combination of cash matching and in-kind services, will be provided by the Twin Falls Canal Company and the City of Twin Falls. The goals of the project are to mitigate flash flood events, and remove sediment and phosphorous in a 7-acre pond/wetland facility. It is estimated that the facility will prevent approximately 1,000 tons of sediment and associated nutrients from discharging to Rock Creek and the Mid-Snake River.

5. FLOOD CONTROL DISTRICT NO.10 – Boise River North Channel Flood Mitigation Project

Flood Control District No.10 is requesting a \$47,500.00 IWRB flood management grant for the \$95,000.00 North Channel at Eagle Road Flood Mitigation project on the Boise River. The remaining cash matching funding of \$47,500.00 will be provided by Flood Control District No.10, City of Eagle, and the Mace Ditch Company. The goal of the project is to reduce progressive bank erosion and back failure, and reduce gravel bars that obstruct flood conveyance. To achieve these goals, rock barbs and rip rap are proposed to protect the south bank by reducing flow velocities on the south bank and diverting the higher velocity flows to the center of the main channel of the Boise River to reduce the deposition of gravel and formation of gravel bars.

6. FLOOD CONTROL DISTRICT NO.10 – Canyon Reach 1 Gravel Removal and Levee Repair Project

Flood Control District No.10 is requesting a \$175,000.00 IWRB flood management grant for the \$350,000.00 Canyon Reach 1 Gravel Removal and Levee Repair Project on the Boise River in Canyon County. The remaining cash matching funding of \$175,000.00 will be provided by Flood Control District No.10, Idaho Wildlife and Water Quality Group, and local property owners. The goal of the project is to remove several gravel bars, comprising approximately 63,000 cubic yards of rock and sediment, and using the gravel, vegetation, rip rap, and bank barbs to repair up to 1,200 lineal feet of an eroded flood levee. The project will reduce flood risk to properties near the gravel bars and flood levee, restore flow capacities of this reach of the Boise River, and reduce downstream impacts of gravel bars on the river channel and infrastructure.

7. CITY OF OROFINO – TimberLogic Flood Mitigation Project

The City of Orofino is requesting a \$200,000.00 IWRB flood management grant for the \$1,221,640.00 TimberLogic Flood Mitigation project on Orofino Creek near Orofino Idaho. The remaining matching funding of \$1,021,640.00, which is a combination of cash matching funds and in-kind services, will be provided by TimberLogic and a grant provided by the USDA. The goal of the project is to reduce flooding risks to the former Konkolville Mill site, now owned and proposed to be developed by TimberLogic, and downstream commercial and residential properties. Flood risk reductions will be achieved by constructing a floodable bench to widen the floodplain to provide additional flood storage capacity in Orofino Creek.

8. IDAHO SOIL & WATER CONSERVATION DISTRICT – Lower Cottonwood Creek Project

The Idaho Soil & Water Conservation District is requesting a \$27,935.20 IWRB flood management grant for the \$55,890.20 Lower Cottonwood Flood Mitigation project. The remaining

matching funding of \$27,955.00, which is a combination of cash matching funds and in-kind services, will be provided by the Idaho Soil & Water Conservation District and local landowners. The goal of the project is to reduce the risk of flooding in an existing cobble flat area to protect a private access road by reducing flood flow velocities, allowing deposition of sediments in the flat, and reducing sediment loading and improving water quality in Lower Cottonwood Creek. Surface roughness will be established in the cobble flat to reduce flood velocities, along with bioengineering techniques, such as willow live siltation.

9. IDAHO SOIL & WATER CONSERVATION DISTRICT – Sill Creek Project

The Idaho Soil & Water Conservation District is requesting a \$10,960.28 IWRB flood management grant for the \$22,069.28 Sill Creek Flood Mitigation project. The remaining matching funding of \$11,109.00, which is a combination of cash matching funds and in-kind services, will be provided by the Idaho Soil & Water Conservation District and local land owners. The goal of the project is to replace the undersized culvert, which causes overtopping of Wagon Road during annual flooding, with a larger culvert that will convey the 100-year flow event, repair damage to Wagon Road, and removal of approximately 450 cubic yards of gravel, sediment, and debris upstream of culvert to prevent sediment and debris discharge to Sill Creek

10. IDAHO SOIL & WATER CONSERVATION DISTRICT – Clear Creek Project

The Idaho Soil & Water Conservation District is requesting a \$18,570.60 IWRB flood management grant for the \$37,157.60 Clear Creek Flood Mitigation project. The remaining matching funding of \$18,587.00, which is a combination of cash matching funds and in-kind services, will be provided by the Idaho Soil & Water Conservation District and local landowners. The goal of the project is to repair flood damage to the river bank and private property, reduce the risk of future flooding, and improving water quality and fish habitat. The proposed improvements include the installation of 215 feet of toe rock for bank stabilization, bank reconstruction with willow and dogwood plantings to increase bank roughness, a willow trench pack to slow and dissipate overland flows, and gravel removal on the left descending bank, which will be utilized for toe rock bench fill.

11. RAFT RIVER FLOOD CONTROL DISTRICT NO.15 – Raft River Flood Mitigation Project

Raft River Flood Control District No.15 is requesting an \$80,525.00 IWRB flood management grant for the \$161,050.00 Raft River Flood Management project. The remaining matching funding of \$80,525.00, which is a combination of cash matching funds and in-kind services, will be provided by Raft River Flood Control District No.15, Raft River Ground Water District, and East Valley Cattle LLC. The goal of the project is to construct a diversion outlet structure to divert flood flows to an existing detention and recharge basin. The objective of the project is to control and detain flood flows and decrease the sediment load in Raft River, which impacts the Minidoka Wildlife Refuge and the wetlands at the confluence with the Snake River, and provide protection to nearby communities and infrastructure along Raft River.

12. PIONEER IRRIGATION DISTRICT – Mason Creek Flood Mitigation Project

Pioneer Irrigation District is requesting a \$148,500.00 IWRB flood management grant for the \$297,000.00 Mason Creek Flood Prevention project. The remaining matching funding of \$148,500.00, which is a combination of cash matching funds and in-kind services, will be provided by the District. The goal of the project is to replace the existing undersized culvert below the Highline Canal to reduce flooding of property, homes, and roads, and to prevent failure of the Highline Canal due to flood waters overtopping the canal. Currently, the existing culvert is only capable of conveying the 10-year flood event. The proposed new culvert will convey the 100-year flood event without overtopping the High Line Canal, and will reduce the probability of flooding Linden Road and Midland Road during the 10-year and 50-year flood events.

13. FLOOD CONTROL DISTRICT NO.10 – Website App Development Project

Flood Control District No.10 is requesting a \$25,000.00 IWRB flood management grant for the \$75,000.00 Web-Based App Development project. The remaining matching funding of \$50,000.00 will be provided by Flood Control District No.10, Lower Boise Watershed Council, and other stakeholders. The goal of the project is to provide public access to hydraulic information and data developed from the Boise River Management Tool (BRMT). The hydraulic map generated with the app will be used for Boise River management activities, including flood management, land use planning, assessment and management of in-stream structures, water quality, aquatic habitat, recreational uses, ground water/surface water interactions, and native vegetation management.

14. NORTHSIDE CANAL COMPANY – Main Canal Reservoir Flood Mitigation Project

The Northside Canal Company is requesting a \$200,000 IWRB flood management grant for the \$782,900.00 Emergency Flood Mitigation project. The remaining matching funding of \$582,900, which is a combination of cash matching funds and in-kind services, will be provided by the Northside Canal Company. The goal of the project is to reduce the risk of irrigation canals overtopping and/or breaching, causing localized flooding due to rapid flow changes in the company's main canal by constructing a flood management reservoir. The rapid flow changes are a result of regional power outages and/or high intensity rain events. These events cause the pumping systems to go off-line due to power outages or sudden decreased demand for irrigation water. The construction of an off-channel flood management reservoir near the middle of the company's delivery area, will reduce flood risk, and assist operations staff to better manage rapid changes in flow demand in the middle and lower end of the company's delivery system. However, the proposed project does not meet the IWRB Flood Management Grant Program criteria, in particular flood repairs, prevention, and reduction in Idaho's streams and rivers. Although flooding of the canals occur, a canal is not a stream or river, and the proposed project is to assist the company operations of the delivery system, not flooding impacts within a stream or river channel.

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF FLOOD
MANAGEMENT GRANTS

RESOLUTION TO AWARD FUNDS

1 WHEREAS, House Bill 646 passed and approved by the Idaho Legislature transferred
2 \$800,000 from the General Fund to the Water Management Fund for a Flood Management Grant
3 Program administered by the Idaho Water Resources Board (IWRB) to be used for the purpose
4 of flood-damaged stream channel repair, stream channel improvement, flood risk reduction, or
5 flood prevention projects; and

6
7 WHEREAS, House Bill 646 allows for the award of grants larger than \$50,000 for the Flood
8 Management Program, at the discretion of the IWRB; and

9
10 WHEREAS, House Bill 646 directs the IWRB to require the availability of fifty percent (50%)
11 matching funds for all projects to be considered under the grant program; and

12
13 WHEREAS, House Bill 646 directs the IWRB to prioritize projects on a competitive
14 statewide basis; and

15
16 WHEREAS, on April 3, 2020 the IWRB adopted criteria for the award of Flood Management
17 Grants, and

18
19 WHEREAS, several of the 2019 Flood Management Grant Projects were completed under
20 budget totaling \$280,000. These remaining 2019 funds when combined with the 2020 legislative
21 appropriation total \$1,080,000 that may be awarded for 2020 Flood Management Projects; and

22
23 WHEREAS, fourteen (14) Flood Management Grant applications were received by the
24 deadline of Friday June 19, 2020 and the applications were evaluated, scored and ranked
25 according to the criteria adopted by IWRB; and

26
27 WHEREAS, the Finance Committee met on July 8, 2019 and discussed the projects, but did
28 not provide a specific recommendation to the IWRB and

29
30 NOW, THEREFORE BE IT RESOLVED that the IWRB approves the award of Flood
31 Management Grants as specified in the Application Ranking Sheet attached to this resolution.

DATED this 30th day of July, 2020.

ROGER W. CHASE, Chairman
Idaho Water Resource Board

ATTEST

VINCE ALBERDI, Secretary

2020 Flood Management Grant Application Ranking Sheet - Criteria Evaluation Points & Final Rankings

| Entity | Funds Requested | Total Project Costs | Final Evaluation Score (135 Pts) | Final Rankings | Awarded Funding |
|---|-----------------------|-----------------------|----------------------------------|----------------|-----------------|
| Lewis Soil Conservation District - Alpine Road | \$18,425.30 | \$46,709.30 | 114 | 1 | \$0.00 |
| Clearwater Soil & Water Conservation District - Louse Creek | \$24,687.00 | \$58,028.00 | 111 | 2 | \$0.00 |
| City of Bellevue - Lower Howard Preserve | \$57,880.00 | \$120,980.00 | 102 | 3 | \$0.00 |
| Twin Falls Canal Co. & City of Twin Falls | \$51,000.00 | \$101,924.00 | 97 | 4 | \$0.00 |
| Flood Control District No.10 - Boise River North Channel | \$47,500.00 | \$95,000.00 | 97 | 5 | \$0.00 |
| Flood Control District No.10 - Boise River Canyon Reach 1 | \$175,000.00 | \$350,000.00 | 97 | 6 | \$0.00 |
| City of Orofino - Orofino Creek | \$200,000.00 | \$1,221,640.00 | 93 | 7 | \$0.00 |
| Idaho Soil & Water Cons. Dist. - Lower Cottonwood Creek | \$27,935.20 | \$55,890.20 | 93 | 8 | \$0.00 |
| Idaho Soil & Water Cons. Dist. - Sill Creek | \$10,960.28 | \$22,069.28 | 93 | 9 | \$0.00 |
| Idaho Soil & Water Cons. Dist. - Clear Creek | \$18,570.60 | \$37,157.60 | 89 | 10 | \$0.00 |
| Raft River Flood Control Dist. No.15 | \$80,525.00 | \$161,050.00 | 83 | 11 | \$0.00 |
| Pioneer Irrigation District - Mason Creek | \$148,500.00 | \$297,000.00 | 80 | 12 | \$0.00 |
| Flood Control District No.10 - BRMT Website App Development | \$25,000.00 | \$75,000.00 | 44 | 13 | \$0.00 |
| North Side Canal Company - Main Canal Flood Control Pond | \$200,000.00 | \$782,900.00 | 39 | 14 | \$0.00 |
| Total funds requested | \$1,085,983.38 | \$3,425,348.38 | | | \$0 |

Total: \$0

Memorandum



To: Idaho Water Resource Board

From: Cynthia Bridge Clark and Emily Skoro

Date: July 22, 2020

Re: Lost Valley Reservoir Expansion Project – Water Right Application Subordination

COMMITTEE ACTION: Consideration of a resolution to subordinate the IWRB's water right application for the Galloway Dam to Lost Valley Reservoir Company's reservoir enlargement water right application.

Background

Lost Valley Dam and Reservoir (Lost Valley) is an existing 10,000 acre-foot (AF) reservoir located in the headwaters of the Weiser River Basin near Council. It is owned by the Lost Valley Reservoir Company (LVRC), whose shareholders include both individuals and canal companies throughout the Weiser Basin, mostly in the Council, Cambridge, and Midvale areas. Water from Lost Valley is used to irrigate approximately 10,000 acres of land and is mostly supplemental to natural flow water rights owned by the shareholders.

It has long been recognized that Lost Valley has potential to be expanded from 10,000 AF to as much as approximately 30,000 AF. A possible enlargement has been studied at various times by the U.S. Bureau of Reclamation, IWRB, and the LVRC. As part of its plan to expand the reservoir, LVRC submitted a water right application to the Department of Water Resources in 1993.

There are at least two major factors that make raising Lost Valley Dam challenging: 1) the reservoir enlargement would inundate U.S. Forest Service (USFS) land; and 2) the reservoir enlargement would inundate portions of the ESA-listed Northern Idaho Ground Squirrel (NIDGS) habitat around the Reservoir.

Based on general communication with the USFS, pursuit of the project will require environmental review under NEPA, preparation of an Environmental Impact Statement (EIS), and federal consultation under ESA Section 7 (ESA-listed aquatic and terrestrial species or critical habitat) and National Historic Preservation Act Section 106 (NHPA – consultation with ACHP, SHPO, Tribal Historic Preservation Offices, and Indian Tribes). To initiate the EIS process, the USFS will require submittal of a detailed proposal of the scope and plan for the proposed project as well as collection of data and required surveys for certain plant and animal species, and an agreement to pay cost recovery fees for work performed by the USFS to complete the EIS.

The USFS will then publish a Notice of Intent to inform the public of the preparation of the EIS. The EIS process will require public scoping and appropriate public involvement processes, generation and evaluation of alternatives, and completion of consultation under ESA Section 7 and NHPA Section 106. The USFS will ultimately release a draft and final EIS, and draft and final Record of Decision (ROD), all with appropriate public review and comment processes. The ROD will explain the agency's decision, the alternatives considered, and the mitigation and monitoring efforts to be included in the project if necessary. The USFS requires the project proposer pay for the cost of the NEPA (EIS), inventories and special studies, and time spent by USFS for consultation with other agencies and the public. Costs associated with additional contractor support are also the responsibility of the project proposer.

Given the complexity of mitigation for the ESA-listed NIDGS and the commitment required to complete an EIS, the IWRB provided funding to help LVRC determine whether a dam raise would result in impacts to the

NIDGS that would be prohibitive to project development. The IWRB approved expenditure of up to \$30,000 for LVRC to contract a study of potential impacts to the NIDGS and mitigation options (total study cost was estimated to be \$35,000). Dr. Eric Yensen and M. Sc. Teresa Tarifa from Sagebrush Ecosystems LLC and Dr. Denny Mengel and Sam Box with Rio Applied Science and Engineering LLC completed the analyses: *Northern Idaho Ground Squirrel Survey – Lost Valley Reservoir 2018 (Oct 2018)*, *Northern Idaho Ground Squirrel Proposed Conservation Measures – Lost Valley Reservoir 2018 (Dec 2018)*, and *Technical Memorandum, Conservation Measures Cost Estimates for NIDGS at Lost Valley Reservoir (Oct 2019)*. Results showed that an increased pool elevation would impact the NIDGS and the study identified potential “conservation measures that could be used to avoid and minimize take, measures to aid in the recovery of NIDGS populations to offset “incidental” take, and other actions that could be part of a conservation plan.” Based on the study findings, LVRC is considering steps to move forward with the NEPA process and to incorporate this information into the EIS.

Water Right Application Subordination

The proposed Galloway Dam site is located on the Weiser River downstream of the Lost Valley Reservoir. The IWRB filed a water right application for the Galloway Dam project in 1982 (application no. 67-7590). LVRC filed a water right application for the reservoir enlargement in 1993 (application no. 67-7938). Since the priority date of the IWRB’s application is senior to LVRC’s application, LVRC representatives have stated that the enlargement project and ongoing project development efforts do not make financial sense unless the IWRB is willing to subordinate a portion of its water right application to the LVRC application.

The IWRB’s Water Storage Projects Committee discussed the topic at a committee meeting on July 8, 2020. It recommended bringing the topic before the full IWRB for additional discussion at the regular IWRB meeting on July 30th. Comments provided by IWRB members during and after the Committee meeting have been incorporated into the attached revised draft resolution. The resolution contemplates subordination of a portion of the IWRB’s water right application contingent upon progress in the development of the project as defined by specified conditions (see attached draft resolution). Staff will present the resolution for comment and consideration by the IWRB at the July 30th IWRB meeting.

Attachment(s)

1. Draft resolution to subordinate a portion of the IWRB’s water right application.

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE LOST VALLEY
RESERVOIR EXPANSION

RESOLUTION TO subordinate a portion of the
IWRB's Water Right Application No. 67-7590
to Lost Valley Reservoir Company's Water
Right Application No. 67-7938

1 WHEREAS, the Idaho State Water Plan recognizes that surface water development will play a role
2 in meeting Idaho's future water needs, it supports assessment and development of new high potential
3 storage facilities; and
4

5 WHEREAS, an enlargement of the Lost Valley Reservoir, located in the Weiser River Basin north of
6 Council, Idaho is identified in the 2012 Idaho State Water Plan as a reservoir site with apparent high
7 potential for development; and
8

9 WHEREAS, the Lost Valley Reservoir Company Board (LVRC) is investigating a potential raise of
10 the Lost Valley Dam (Lost Valley Project, Project) to increase reservoir capacity from approximately 10,000
11 acre-feet to as much as 30,000 acre-feet to provide additional water supply for irrigation, recreation, fish
12 and wildlife, and other purposes based on interest; and
13

14 WHEREAS, the LVRC filed a water right application for 20,000 acre-feet of additional storage water
15 in 1993 (No. 67-7938) and later completed initial design and cost estimates for construction of the Lost
16 Valley Project. In 2013, the LVRC began investigating environmental compliance requirements and
17 updating hydrologic analyses; and
18

19 WHEREAS, in 1982, IWRB filed a water right application No. 67-7590 for the proposed Galloway
20 Dam on the Weiser River. The application contemplates a total storage capacity of up to 1,500,000 acre-
21 feet; and
22

23 WHEREAS, the priority date of IWRB's water right application would reduce the fill potential of
24 the new Lost Valley Reservoir space and limit the economic viability of the Lost Valley Project; and
25

26 WHEREAS, subordinating a portion of water right application No. 67-7590 would allow the new
27 Lost Valley Reservoir space to be filled prior to the reservoir formed by the Galloway Dam;
28

29 NOW, THEREFORE BE IT RESOLVED that the IWRB will permanently subordinate up to 20,000 acre-
30 feet of its water right application to LVRC's water right application so long as LVRC can demonstrate the
31 following conditions are met:
32

- 33 1) Within three (3) years of the date this resolution, LVRC must advance coordination with the
34 United States Forest Service (USFS) such that the USFS has published the Notice of Intent to
35 prepare the EIS for the Project; and
36

37 2) LVRC must obtain a water right permit, approved by the Director of the Idaho Department
38 of Water Resources, for additional storage in the Lost Valley Reservoir in accordance with
39 criteria set forth in Idaho Code § 42-203A; and
40

41 3) Construction of the proposed Lost Valley Dam Project must be complete within ten (10) years
42 of the date of this resolution; and
43

44 NOW, THEREFORE BE IT FURTHER RESOLVED that the IWRB may consider an extension of
45 conditions 1 and 3 if LVRC can demonstrate due diligence in the development of the Lost Valley Project.
46

47 NOW, THEREFORE BE IT FURTHER RESOLVED that this resolution is not an endorsement of the
48 Lost Valley Reservoir Project and the IWRB reserves the right to review the Project pursuant to its
49 authorities under Title 42, Idaho Code.

DATED this 30th day of July 2020.

ROGER W. CHASE, Chairman
Idaho Water Resource Board

ATTEST _____
VINCE ALBERDI, Secretary

Memorandum



To: Idaho Water Resource Board (IWRB)
From: Neeley Miller, Planning & Projects Bureau
Date: July 22, 2020
Re: Priest Lake Water Management Project Update

ACTION: Consider resolution to accept bids, authorize funding, and execute agreements. Outlet dam bids will be opened 7/24; Thorofare bids will be opened 7/28. Staff is developing a resolution and will be prepared to discuss it with the Board at the meeting on 7/30.

Background

As a result of limited water supply and drought conditions in northern Idaho in 2015 and 2016 (and 2019) it has been difficult to maintain required lake pool levels and downstream flow in the Priest River during the recreational season.

Phase 1: The Priest Lake Water Management Study was completed in February 2018. The study included the following recommendations:

- Temporarily raising the surface level of Priest Lake up to 6 inches during the recreational season for dry years and integrating real-time streamflow data to allow more operational flexibility
- Outlet dam structural and operational improvements
- Replacing the current existing porous breakwater with an impervious breakwater structure and dredging a portion of the Thorofare channel

Phase 2: The Priest Lake Water Management Project – Preliminary Engineering & Design concluded in the fall 2019.

Update on Phase 3

Final Engineering & Design which includes finalizing regulatory permitting and bidding assistance began in November 2019 and is nearing completion.

Schedule

- July 2020 –Outlet dam bids will be opened 7/24; Thorofare bids will be opened 7/28; Board will consider funding resolution to initiate construction for the Thorofare and Outlet Dam projects (Phase 4). The Board will be asked to consider a resolution to accept bids, authorize funding, and execute agreements at their meeting on 7/30. Staff will provide the

Board with the resolution and information about the bids and IWRB available funding on 7/30.

- Aug 2020 – Contract negotiations, and issuance of Notice to Proceed
- Oct 2020 - Mar 2021 – Anticipated construction period for both projects

Priest Lake Water Right(s)

- Ann Vonde from the Attorney General's office will provide the Board with an update on the Priest Lake water right process.

Memorandum

To: Idaho Water Resource Board
From: Brian Patton
Date: July 22, 2020
Re: Lemhi Basin – SCR137



Senate Concurrent Resolution 137 requests that the IWRB work with water users in the Lemhi River Basin to resolve water use conflicts in the basin. Clive Strong will provide an update on these efforts.