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Attorneys for South Valley Ground Water District and Galena Ground Water District

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE STATE OF IDAHO

IN THE MATTER OF BASIN 37 ADMINISTRATIVE PROCEEDING	Docket No. AA-WRA-2021-001 **SOUTH VALLEY GROUND WATER DISTRICT AND GALENA GROUND WATER DISTRICT'S SUPPLEMENTAL DISCLOSURE OF EXHIBITS**

COMES NOW, the Petitioners, SOUTH VALLEY GROUND WATER DISTRICT, on behalf of its members, by and through counsel of record, BARKER ROSHOLT & SIMPSON LLP, and GALENA GROUND WATER DISTRICT, on behalf of its members, by and through counsel

of record, LAWSON LASKI CLARK, PLLC (collectively, "Group 2 Parties"), and pursuant to the Director's order of May 25, 2021, hereby supplements its Disclosure of Exhibits, filed yesterday, to add the attached Exhibit 035, which may be used at the hearing on this matter.

DATED this 3rd day of June, 2021.

BARKER ROSHOLT & SIMPSON LLP

__/S/ ALBERT P. BARKER_____
Albert P. Barker
Attorneys for South Valley Ground Water District

LAWSON LASKI CLARK, PLLC

___/S/ HEATHER E. O'LEARY_____
Heather E. O'Leary
Attorneys for Galena Ground Water District

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 3rd day of June, 2021, the above and foregoing was served on the following by the method(s) indicated below:

IDAHO DEPARTMENT OF WATER RESOURCES P.O. Box 83720 Boise, ID 83720-0098 Megan.Jenkins@idwr.idaho.gov	☐ ☐ ☐ ☒	U. S. Mail Hand Delivered Overnight Mail E-mail
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Southern Comfort Homeowner's Association P.O. Box 2739 Ketchum, ID 83340	☒ ☐ ☐	U. S. Mail Hand Delivered Overnight Mail
W. Kent Fletcher Fletcher Law Office P.O. Box 248 Burley, ID 83316 wkf@pmt.org	☐ ☐ ☐ ☒	U. S. Mail Hand Delivered Overnight Mail E-mail

Candice McHugh Chris M. Bromley McHugh Bromley, PLLC 380 S. 4th St., Ste. 103 Boise, ID 83702 cmchugh@mchughbromley.com cbromley@mchughbromley.com	☐ ☐ ☐ ☒	U. S. Mail Hand Delivered Overnight Mail E-mail
Norman M. Semanko Parsons Behle & Latimer 800 West Main Street, Ste. 1300 Boise, ID 83702 nsemanko@parsonsbehle.com	☐ ☐ ☐ ☒	U. S. Mail Hand Delivered Overnight Mail E-mail
Sarah A. Klahn Somach Simmons & Dunn 2033 11th St., Ste. 5 Boulder, CO 80302 sklahn@somachlaw.com	☐ ☐ ☐ ☒	U. S. Mail Hand Delivered Overnight Mail E-mail
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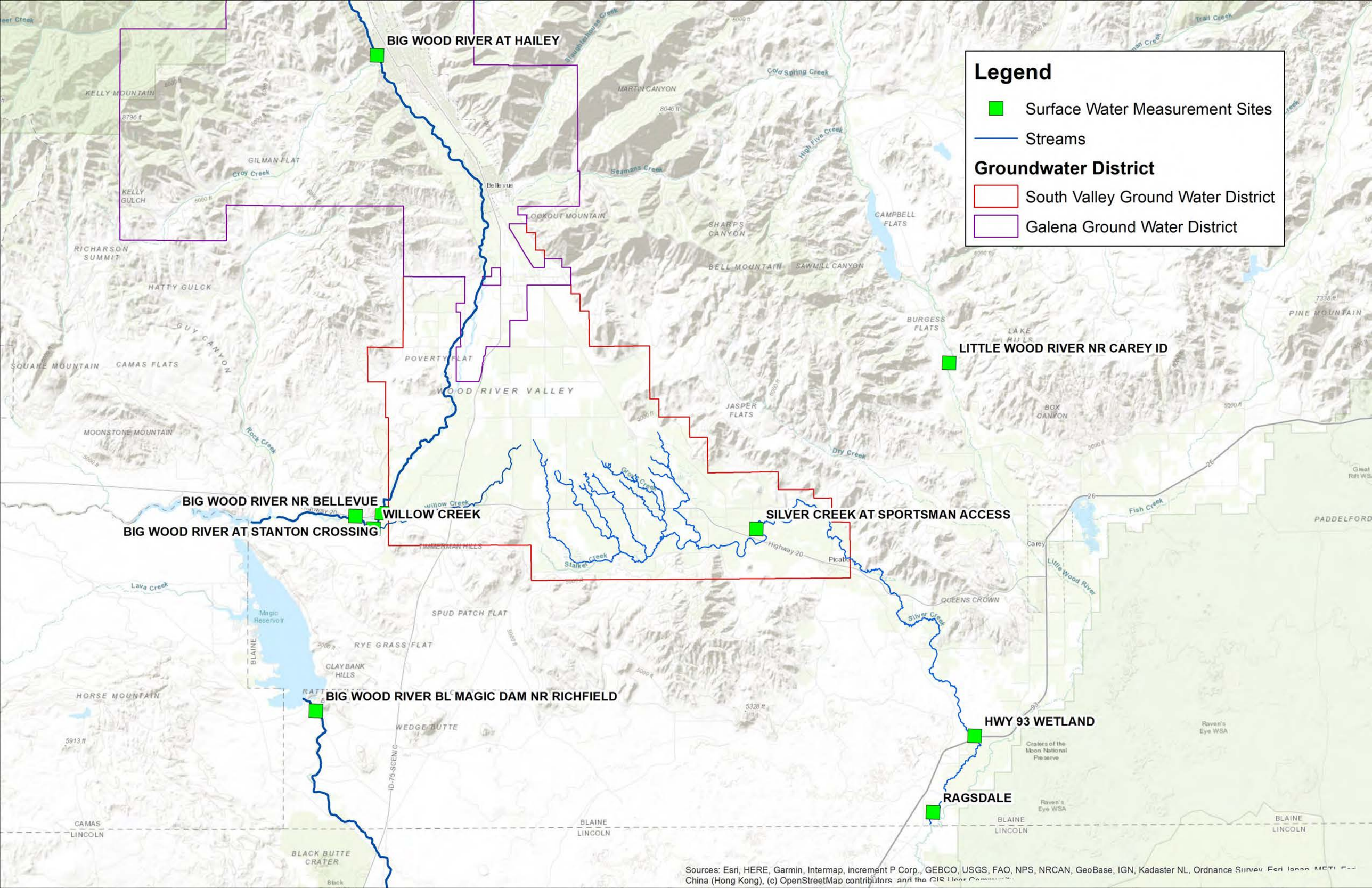
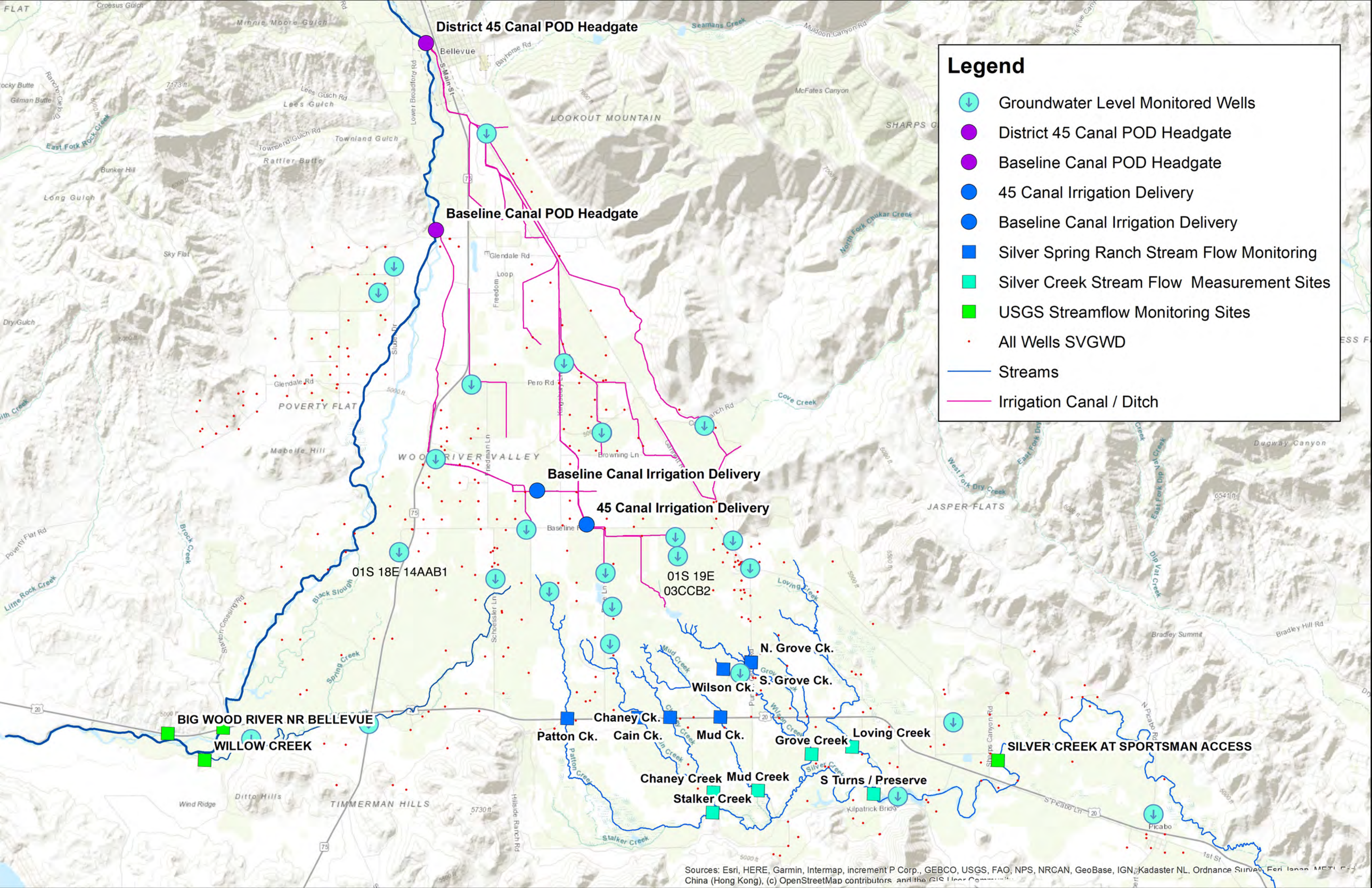
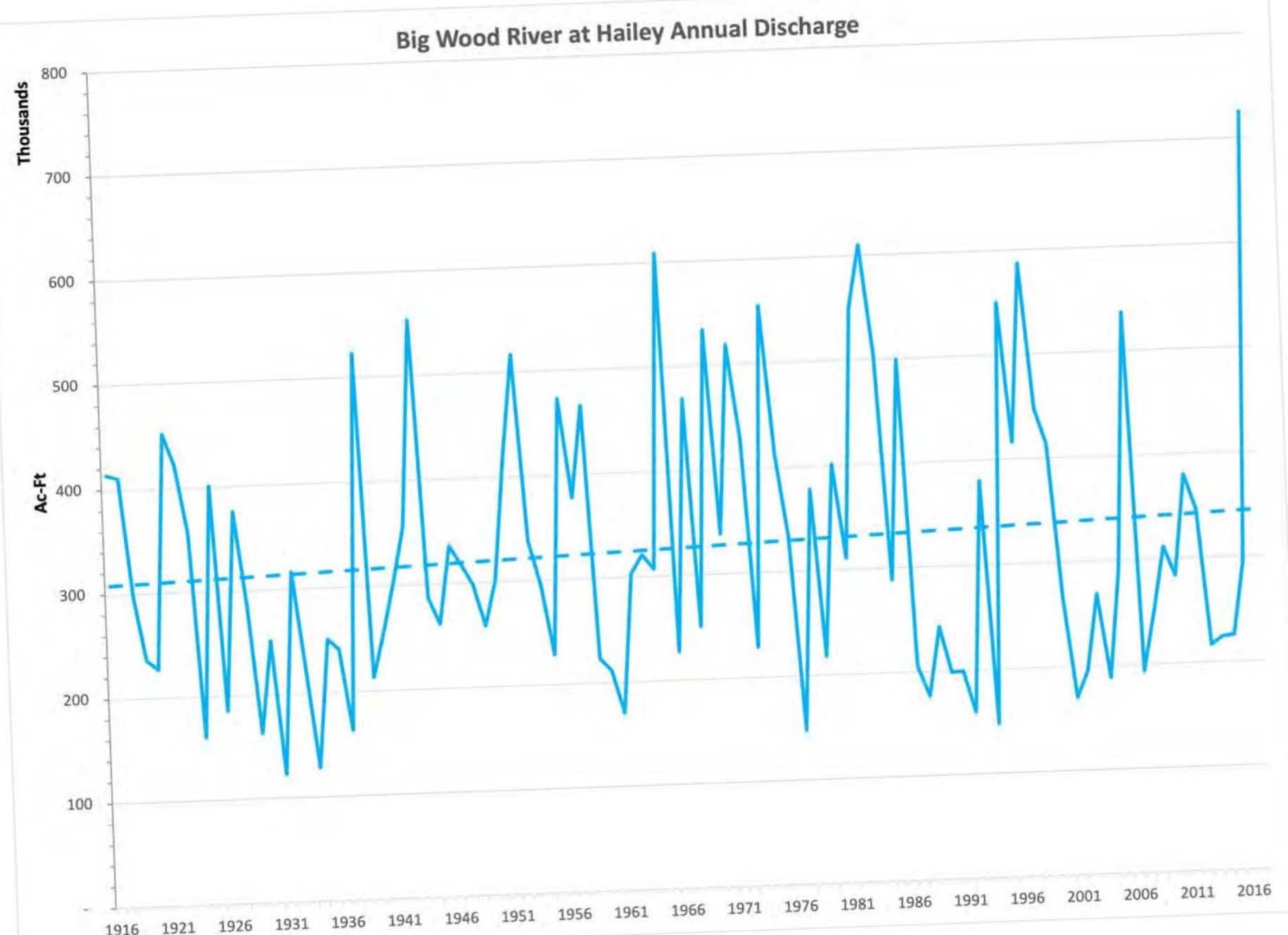
Michael C. Creamer Michael P. Lawrence Charlie S. Baser Givens Pursley LLP 601 W. Bannock St. P.O. Box 2720 Boise, ID 83701-2720 mpl@givenspursley.com mcc@givenspursley.com csb@givenspursley.com	☐ ☐ ☐ ☒	U. S. Mail Hand Delivered Overnight Mail E-mail

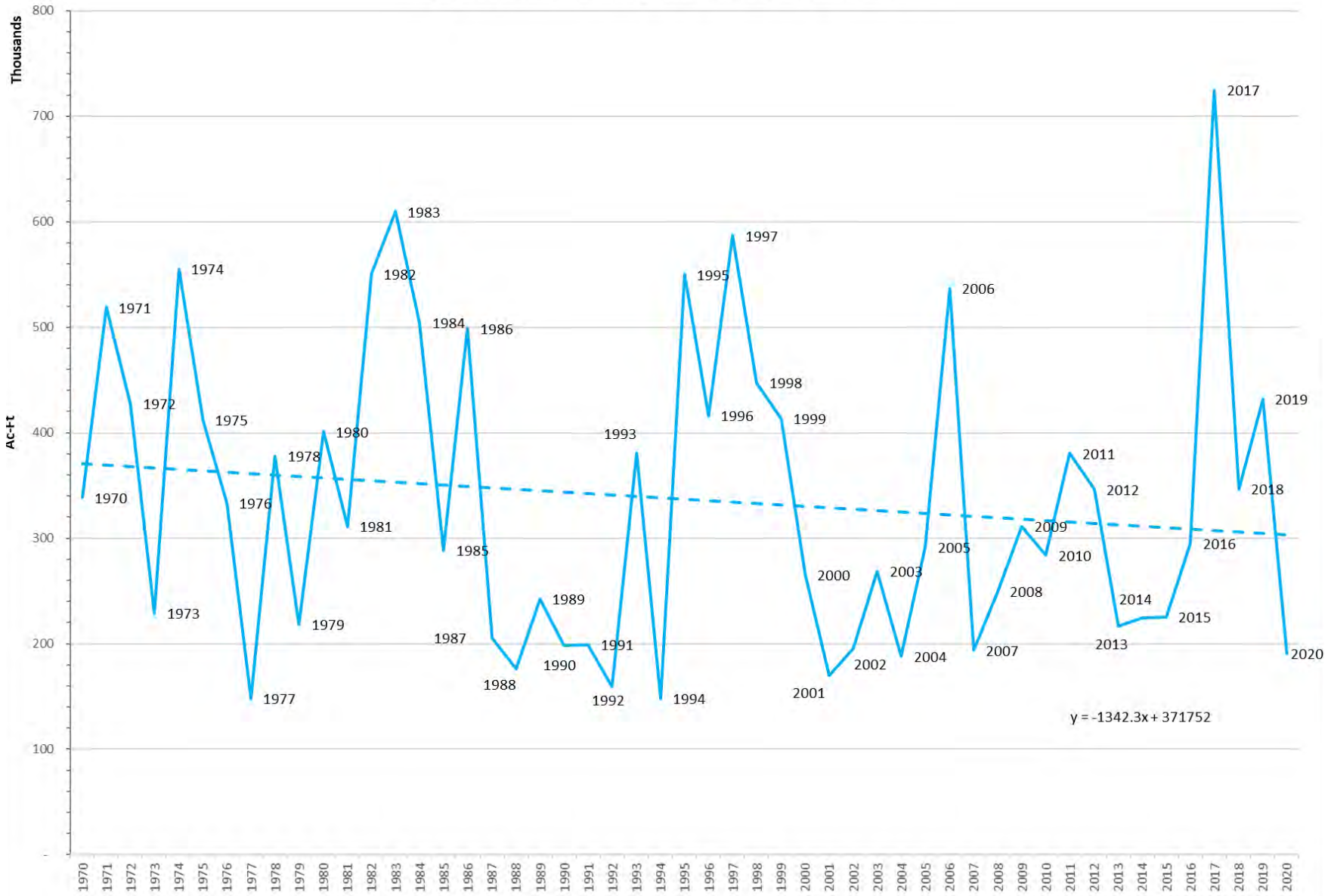
/s/ Albert P. Barker
Albert P. Barker

Exhibit 035

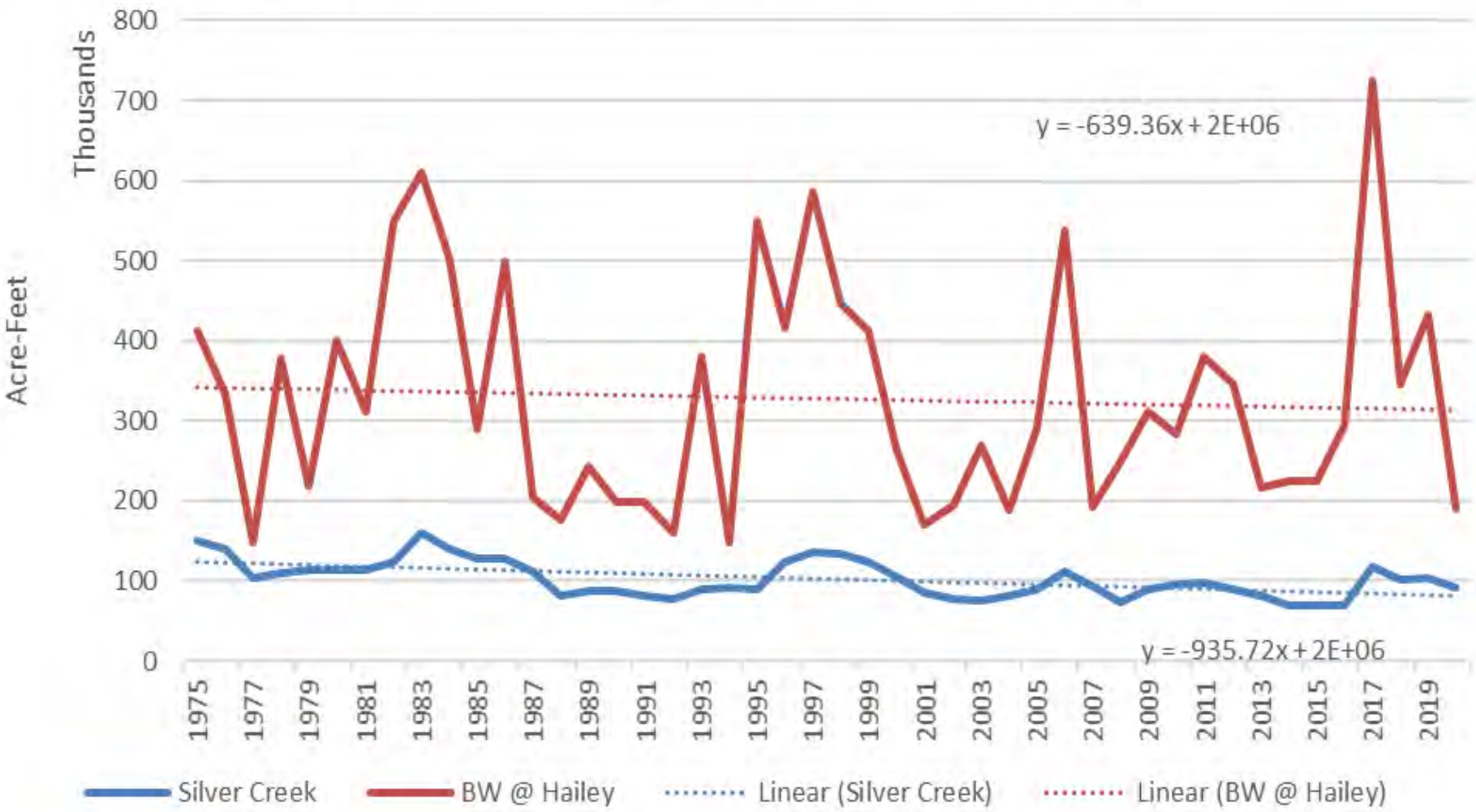

Legend
Surface Water Measurement Sites
Streams
Groundwater District
South Valley Ground Water District
Galena Ground Water District
BIG WOOD RIVER AT HAILEY
LITTLE WOOD RIVER NR CAREY ID
BIG WOOD RIVER NR BELLEVUE
WILLOW CREEK
BIG WOOD RIVER AT STANTON CROSSING
SILVER CREEK AT SPORTSMAN ACCESS
BIG WOOD RIVER BL MAGIC DAM NR RICHFIELD
HWY 93 WETLAND
RAGSDALE
KELLY MOUNTAIN
GILMAN FLAT
KELLY GULCH
RICHARSON SUMMIT
HATTY GULCH
GUY CANYON
SQUARE MOUNTAIN
CAMAS FLATS
MOONSTONE MOUNTAIN
MARTIN CANYON
LOOKOUT MOUNTAIN
SHARPS CANYON
BELL MOUNTAIN
SAWMILL CANYON
CAMPBELL FLATS
BURGESS FLATS
LAKE HILLS
PINE MOUNTAIN
POVERTY FLAT
WOOD RIVER VALLEY
JASPER FLATS
BOX CANYON
TIMBERMAN HILLS
SPUD PATCH FLAT
RYE GRASS FLAT
CLAY BANK HILLS
HORSE MOUNTAIN
WEDGE BUTTE
BLACK BUTTE CRATER
QUEENS CROWN
PADDELFORD
Bellevue
Carey
Picabo
Magic Reservoir
Craters of the Moon National Preserve
Raven's Eye WSA
Great Rift WSA
Highway 20
Highway 26
Highway 93
ID-75-SCENIC
BLAINE
CAMAS
LINCOLN
Slaughterhouse Creek
Cold Spring Creek
High Five Creek
Seamans Creek
Croy Creek
Trail Creek
Rock Creek
Willow Creek
Stalker Creek
Dry Creek
Fish Creek
Little Wood River
Silver Creek
Lava Creek
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community


Legend
Groundwater Level Monitored Wells
District 45 Canal POD Headgate
Baseline Canal POD Headgate
45 Canal Irrigation Delivery
Baseline Canal Irrigation Delivery
Silver Spring Ranch Stream Flow Monitoring
Silver Creek Stream Flow Measurement Sites
USGS Streamflow Monitoring Sites
All Wells SVGWD
Streams
Irrigation Canal / Ditch
District 45 Canal POD Headgate
Baseline Canal POD Headgate
Baseline Canal Irrigation Delivery
45 Canal Irrigation Delivery
01S 18E 14AAB1
01S 19E 03CCB2
N. Grove Ck.
S. Grove Ck.
Wilson Ck.
Chaney Ck.
Cain Ck.
Patton Ck.
Mud Ck.
Grove Creek
Loving Creek
Chaney Creek
Mud Creek
Stalker Creek
S Turns / Preserve
BIG WOOD RIVER NR BELLEVUE
WILLOW CREEK
SILVER CREEK AT SPORTSMAN ACCESS
Bellevue
LOOKOUT MOUNTAIN
POVERTY FLAT
WOOD RIVER VALLEY
JASPER FLATS
TIMMERMAN HILLS
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

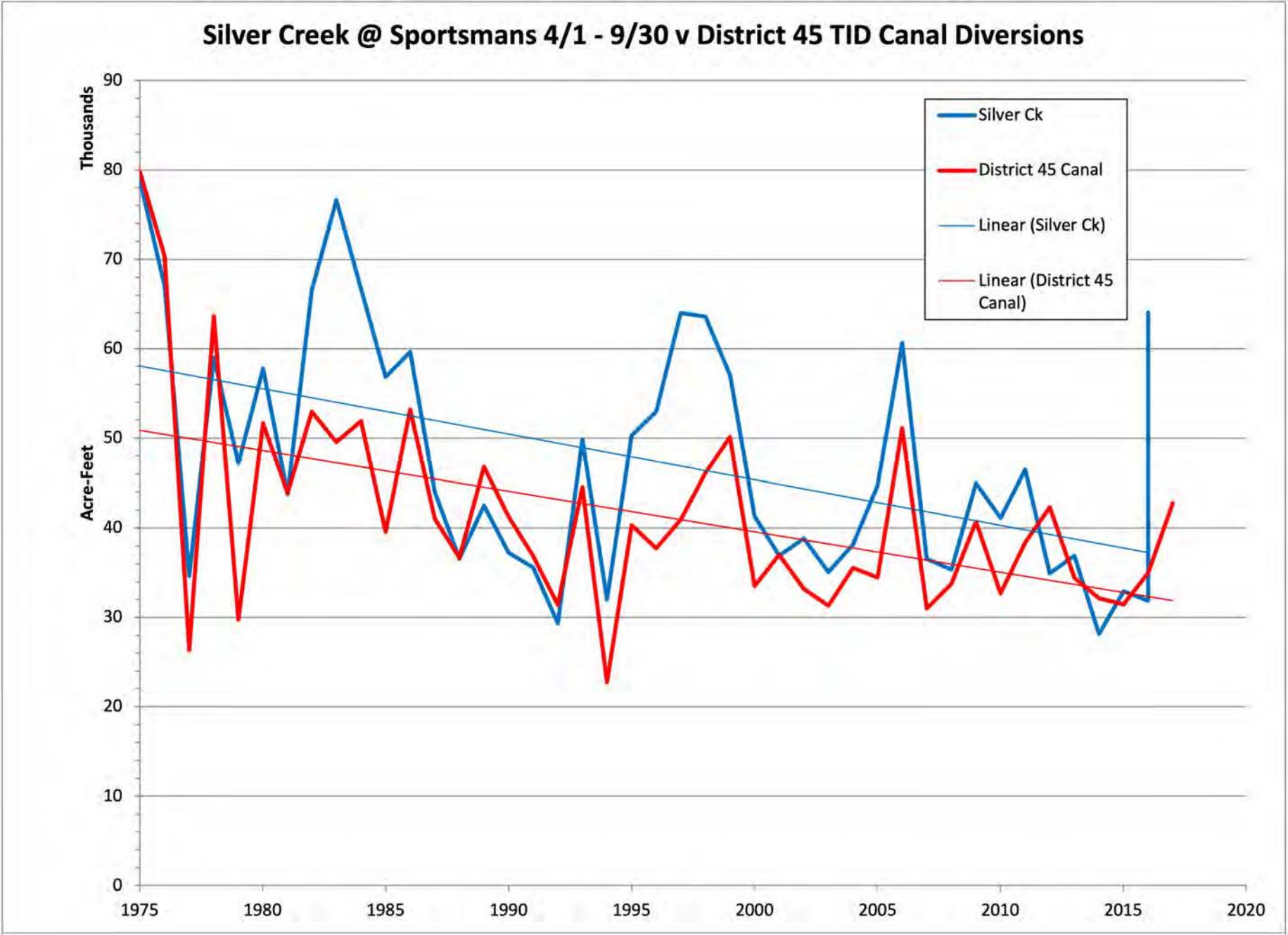

Big Wood River at Hailey Annual Discharge
Thousands
Ac-Ft
800
700
600
500
400
300
200
100
-
1916
1921
1926
1931
1936
1941
1946
1951
1956
1961
1966
1971
1976
1981
1986
1991
1996
2001
2006
2011
2016

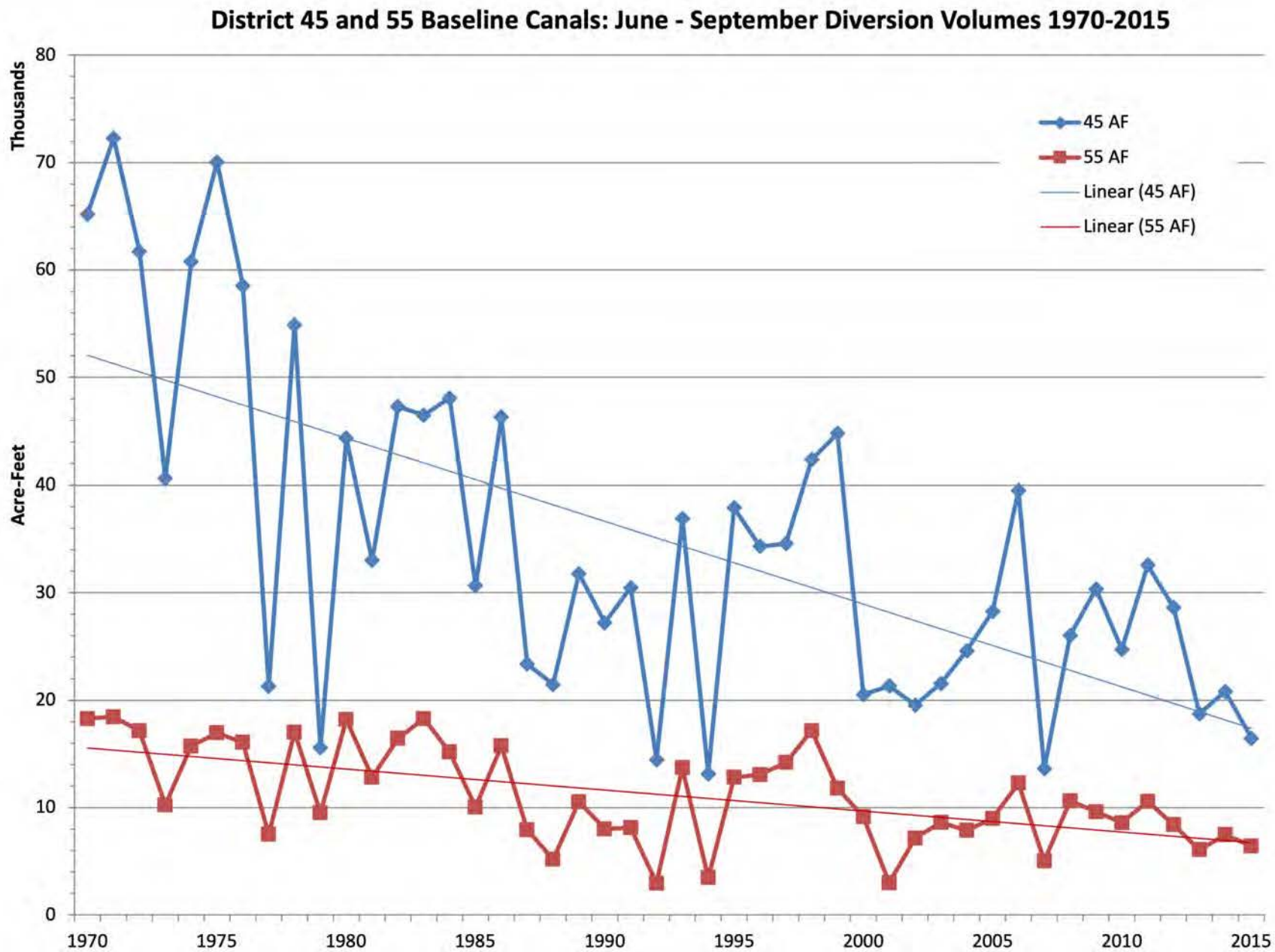


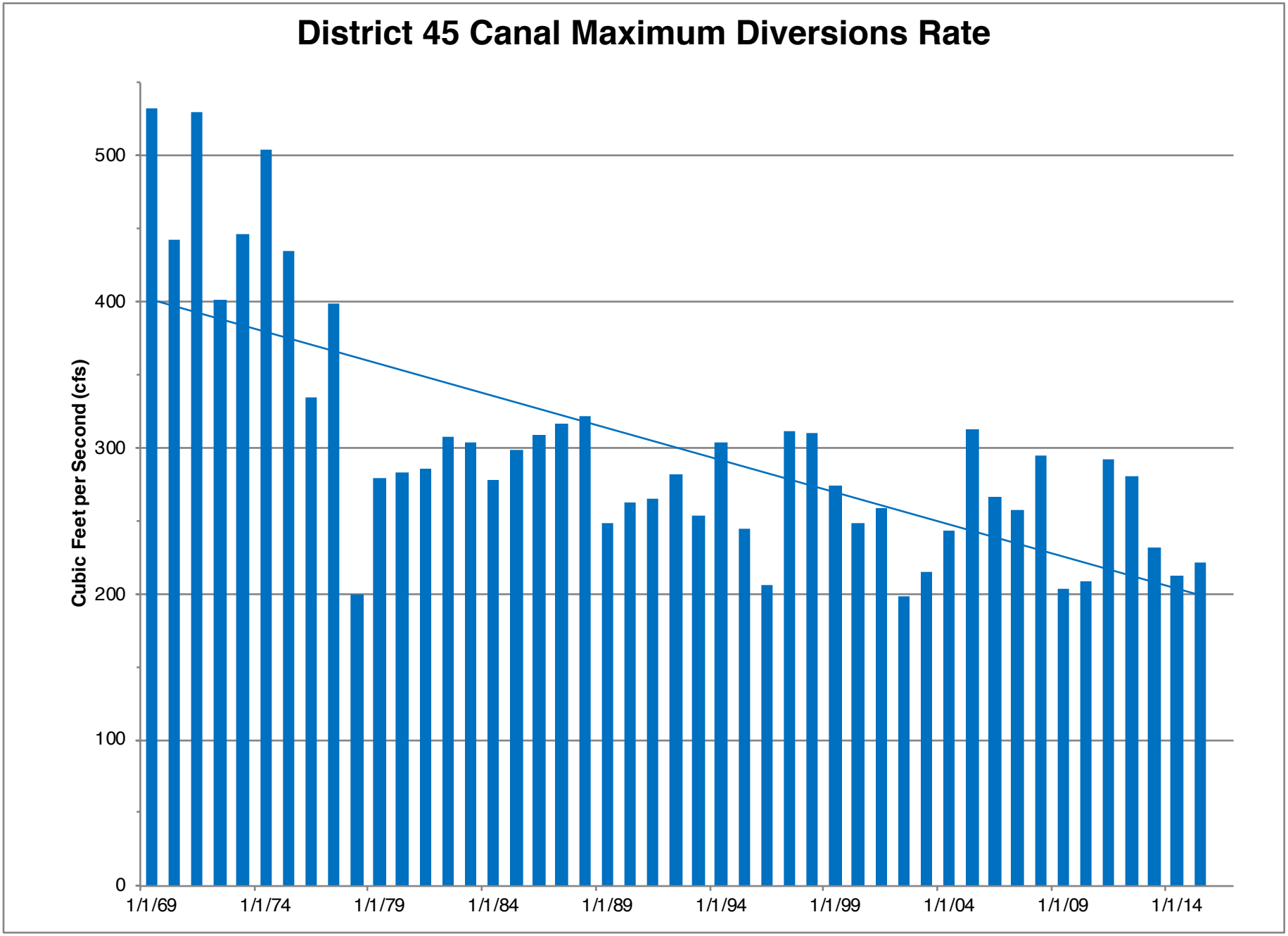
Big Wood River // Annual Volume Hailey Gage 1970-2020

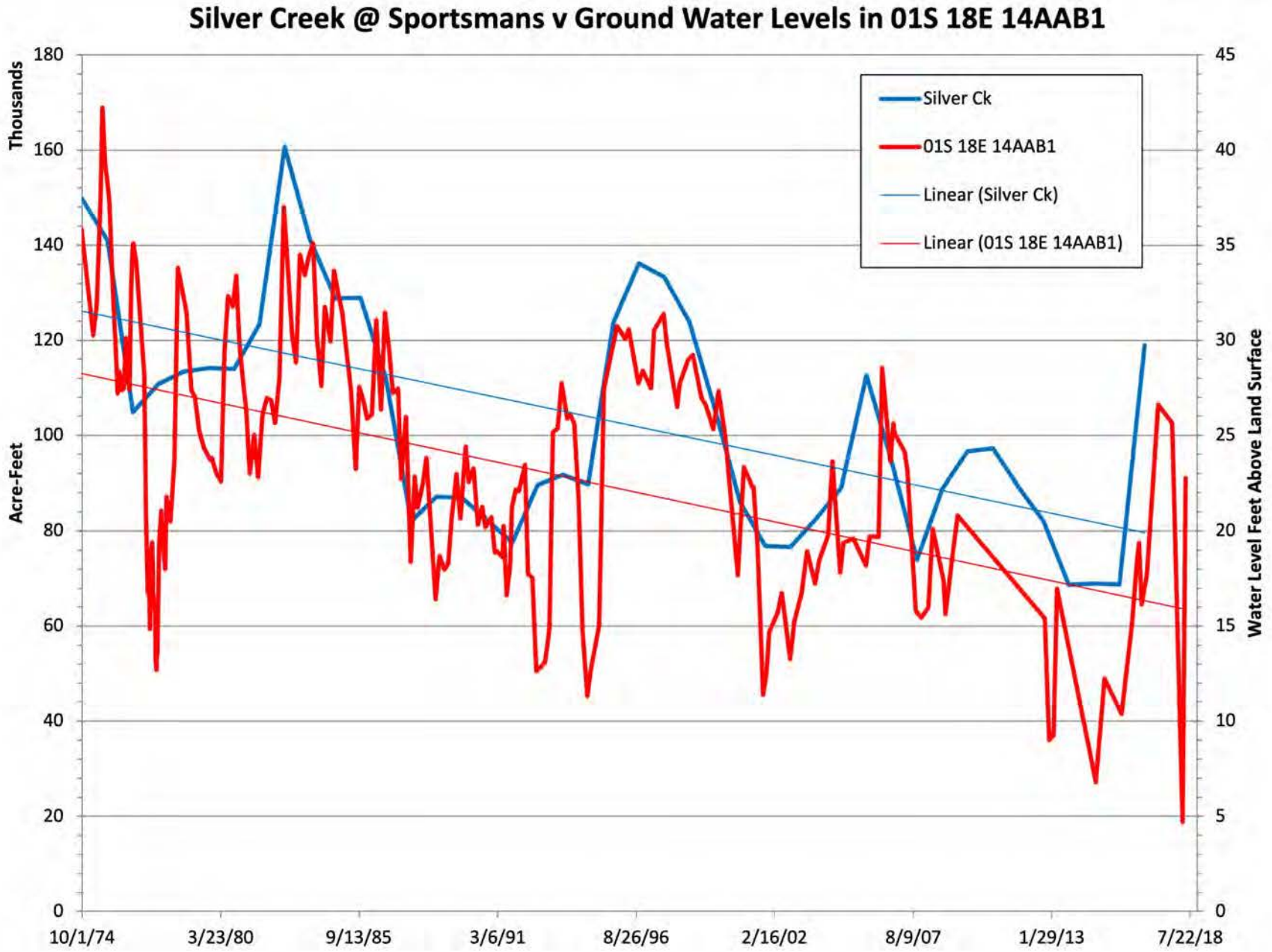


Big Wood River at Hailey // Silver Creek at Sportsman 1975-2020

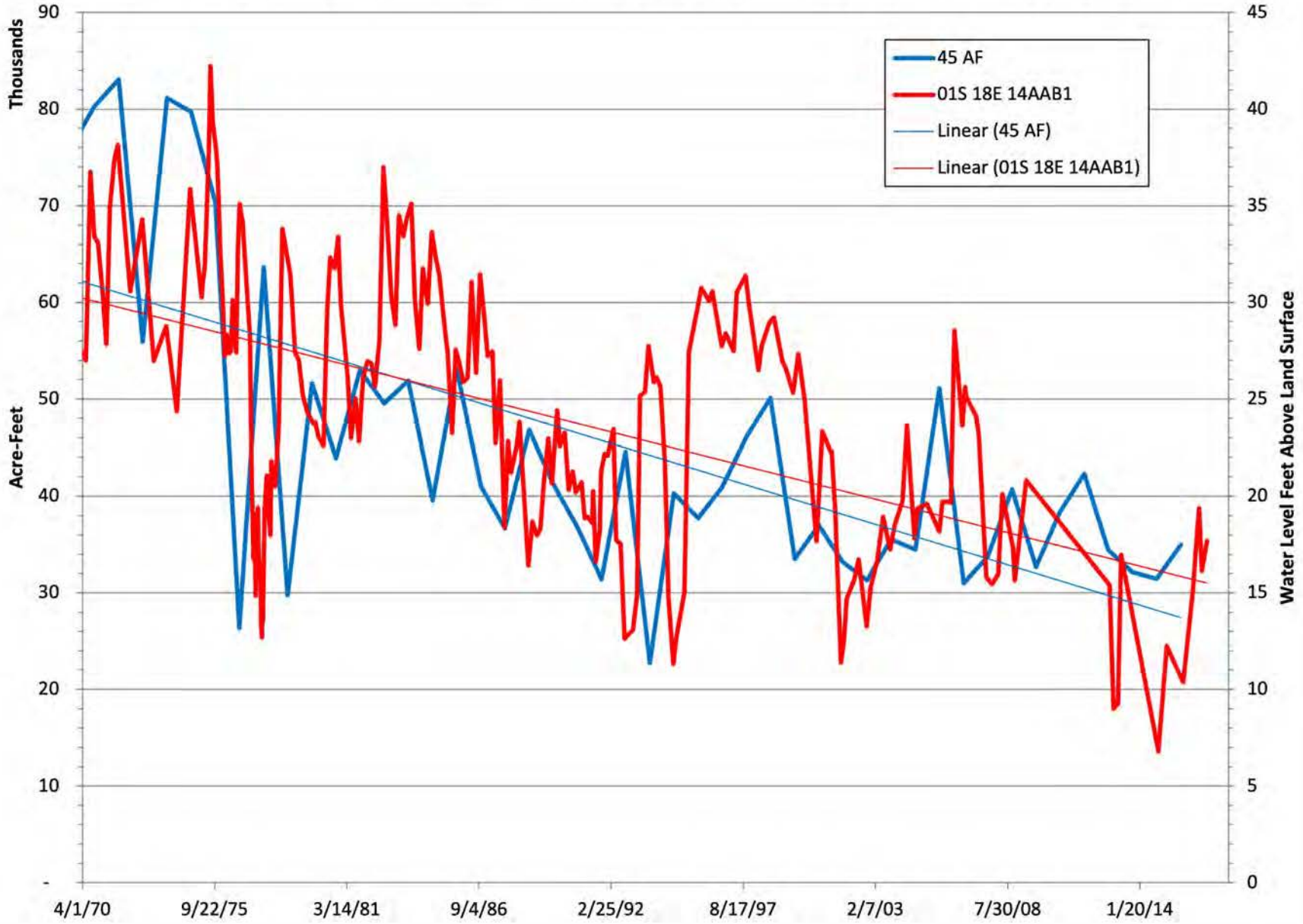

Silver Creek @ Sportsmans 4/1 - 9/30 v District 45 TID Canal Diversions
Thousands
Acre-Feet
90
80
70
60
50
40
30
20
10
0
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Silver Ck
District 45 Canal
Linear (Silver Ck)
Linear (District 45 Canal)

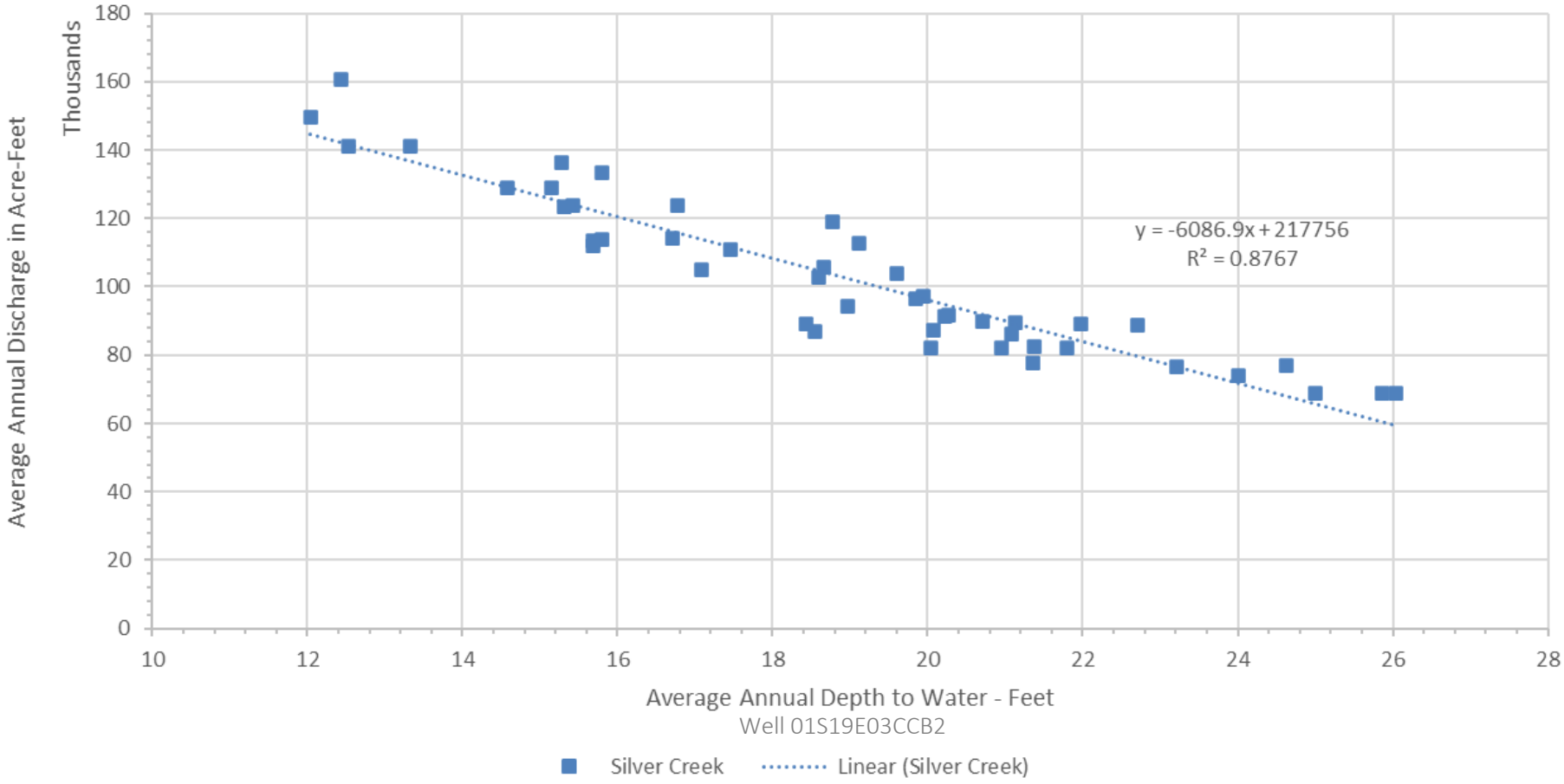

District 45 and 55 Baseline Canals: June - September Diversion Volumes 1970-2015
Thousands
Acre-Feet
80
70
60
50
40
30
20
10
0
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
45 AF
55 AF
Linear (45 AF)
Linear (55 AF)


District 45 Canal Maximum Diversions Rate
Cubic Feet per Second (cfs)
500
400
300
200
100
0
1/1/69
1/1/74
1/1/79
1/1/84
1/1/89
1/1/94
1/1/99
1/1/04
1/1/09
1/1/14

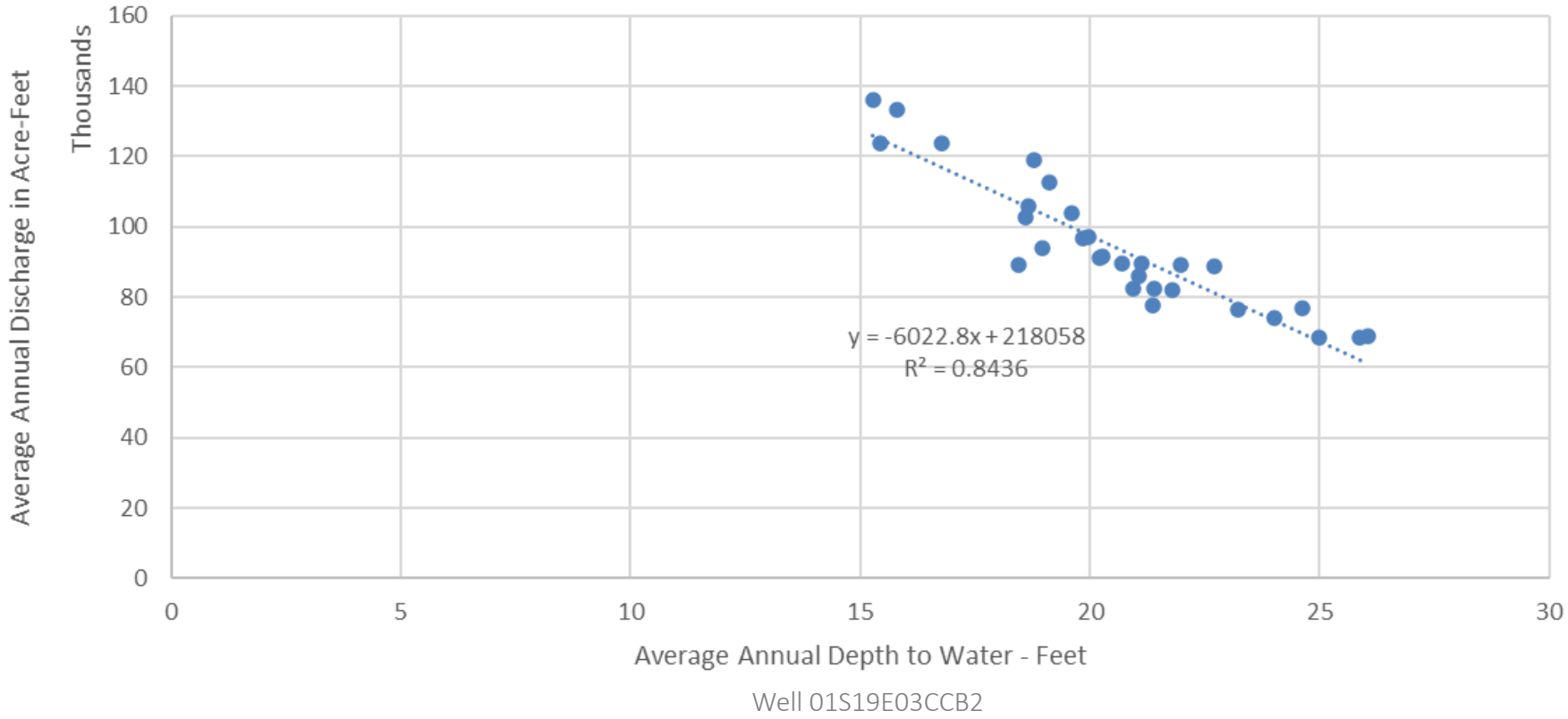

Silver Creek @ Sportsmans v Ground Water Levels in 01S 18E 14AAB1
Thousands
Acre-Feet
Water Level Feet Above Land Surface
Silver Ck
01S 18E 14AAB1
Linear (Silver Ck)
Linear (01S 18E 14AAB1)
180
160
140
120
100
80
60
40
20
0
45
40
35
30
25
20
15
10
5
0
10/1/74
3/23/80
9/13/85
3/6/91
8/26/96
2/16/02
8/9/07
1/29/13
7/22/18

District 45 Canal Diversions v Ground Water Levels in 01S 18E 14AAB1 1970-2015

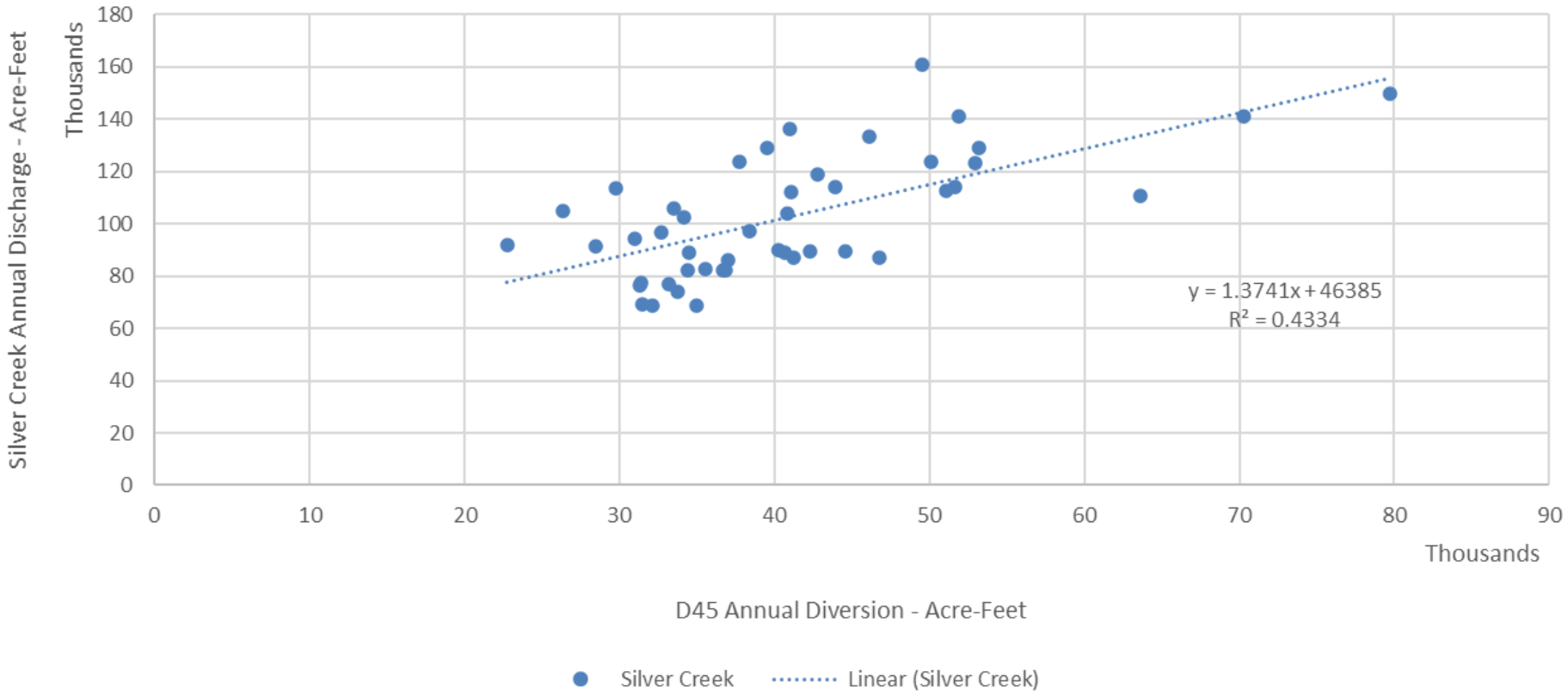




Silver Creek at Sportsman vs Well 01S19E03CCB2 // 1975-2020

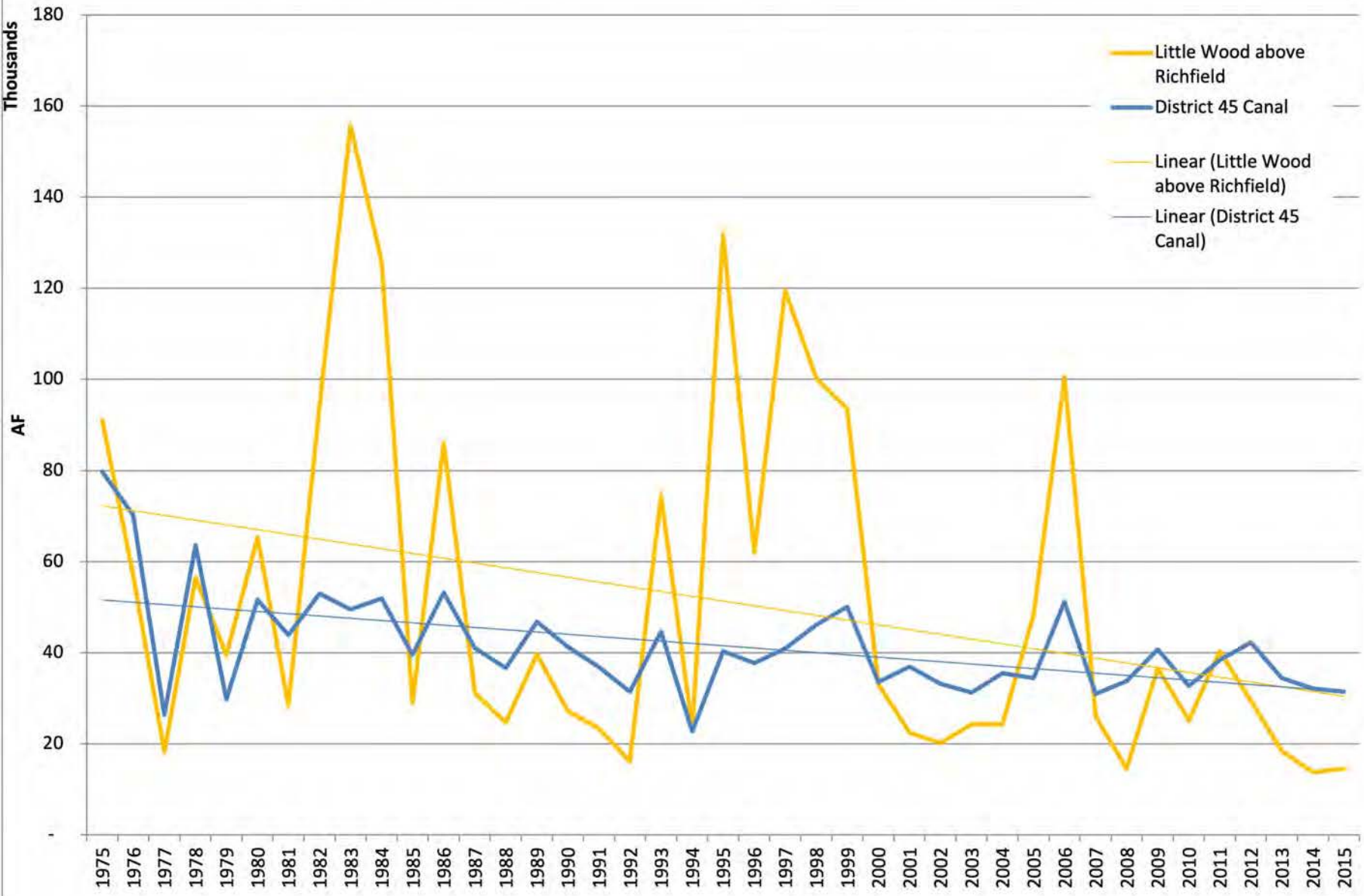


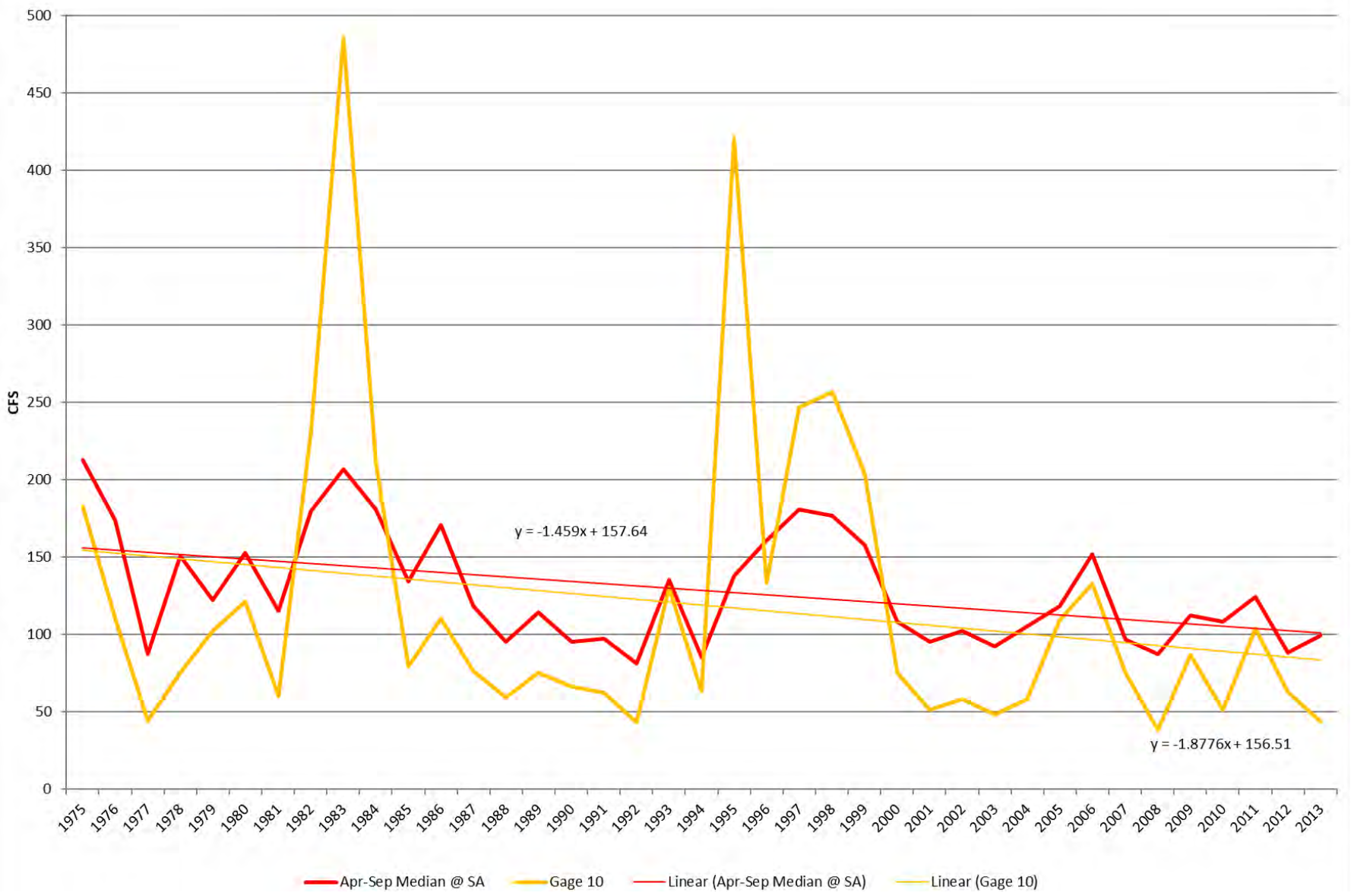
Silver Creek at Sportsman vs Well 01S19E03CCB2 // 1991-2020



Silver Creek at Sportsman vs District 45 Diversions // 1975-2020

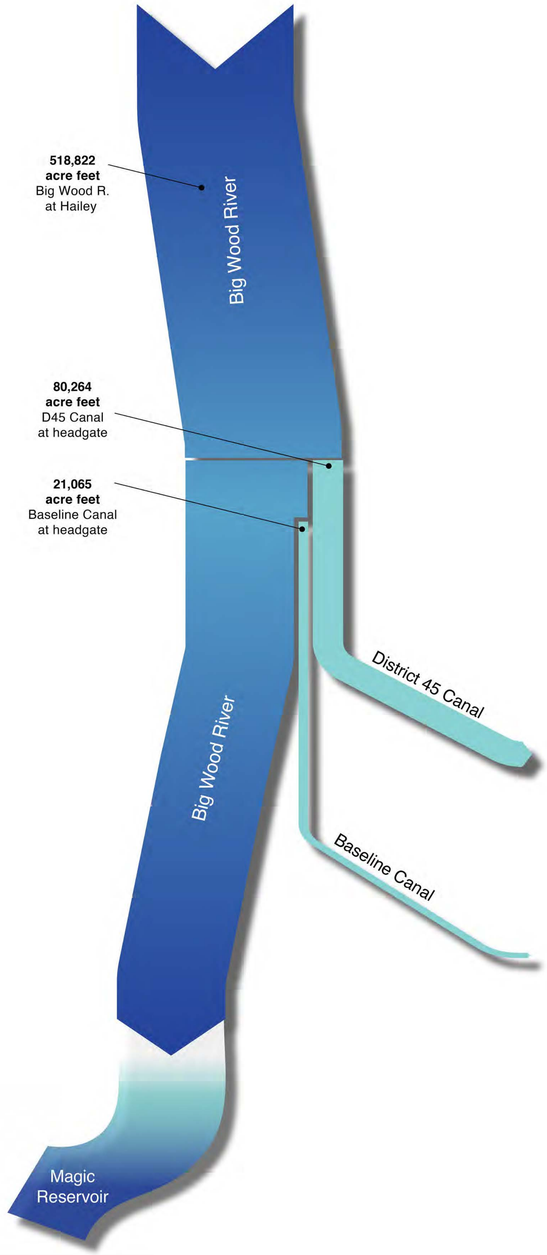
Little Wood at Richfield and District 45 Diversions 1975 - 2015



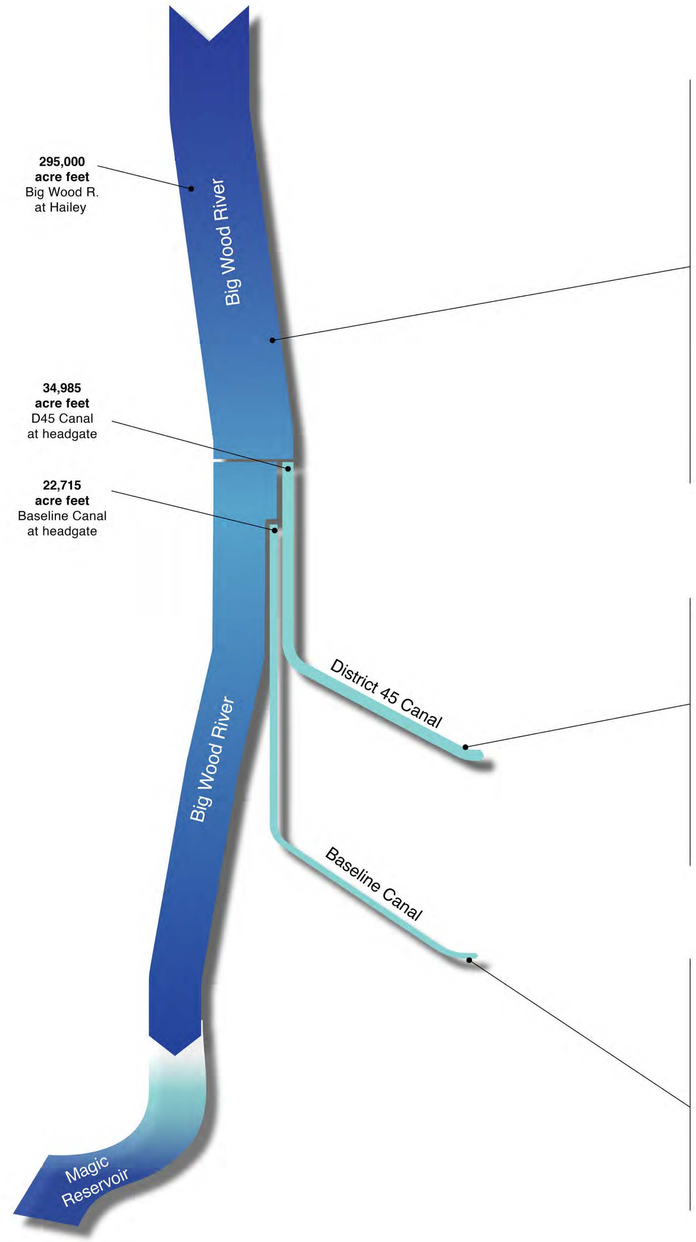


Silver Creek at Sportsman vs Little Wood at Richfield // 1975-2017

1971 WATER VOLUMES



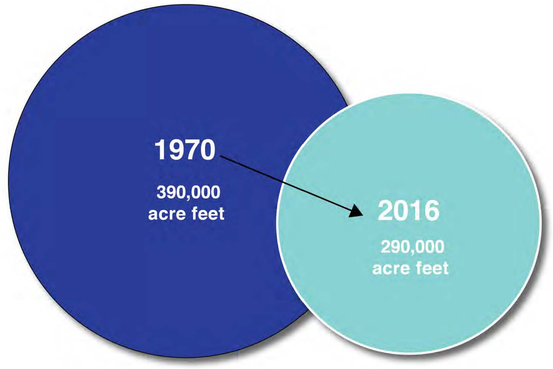
2016 WATER VOLUMES



CHANGE IN TREND 1970-2016

Big Wood River Volume

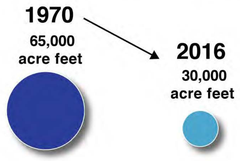
1970 to 2016



26%
less water
100,000 acre feet reduction from 1970 to 2016

District 45 Canal Diversions

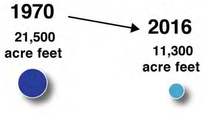
1970 to 2016



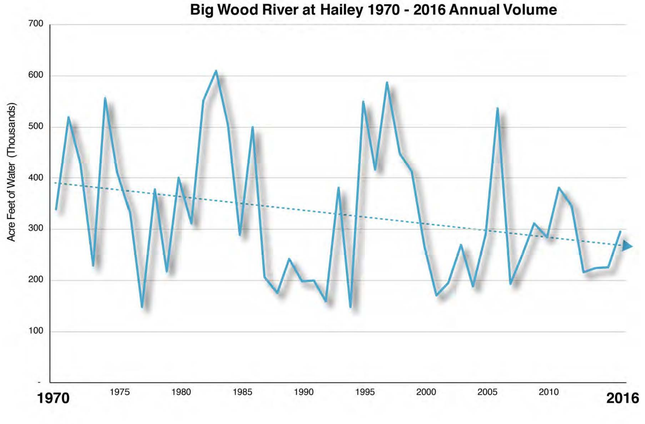
54%
less water
35,000 acre feet reduction from 1970 to 2016

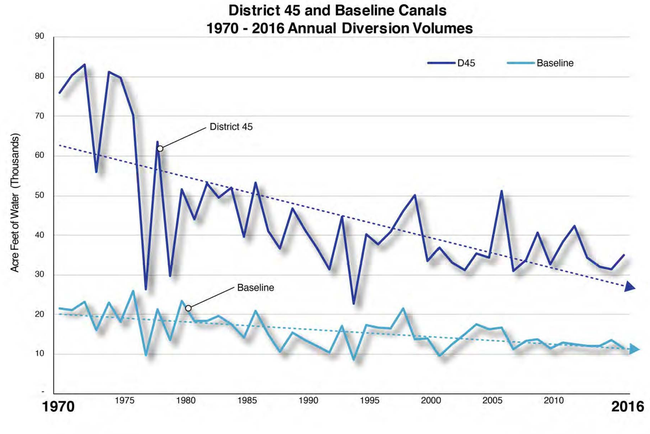
Baseline Canal Diversions

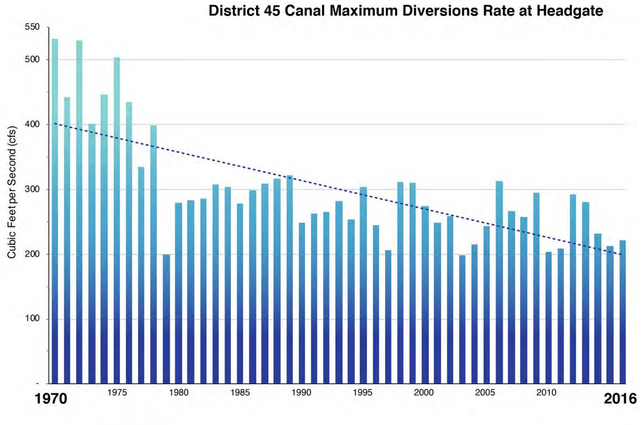
1970 to 2016



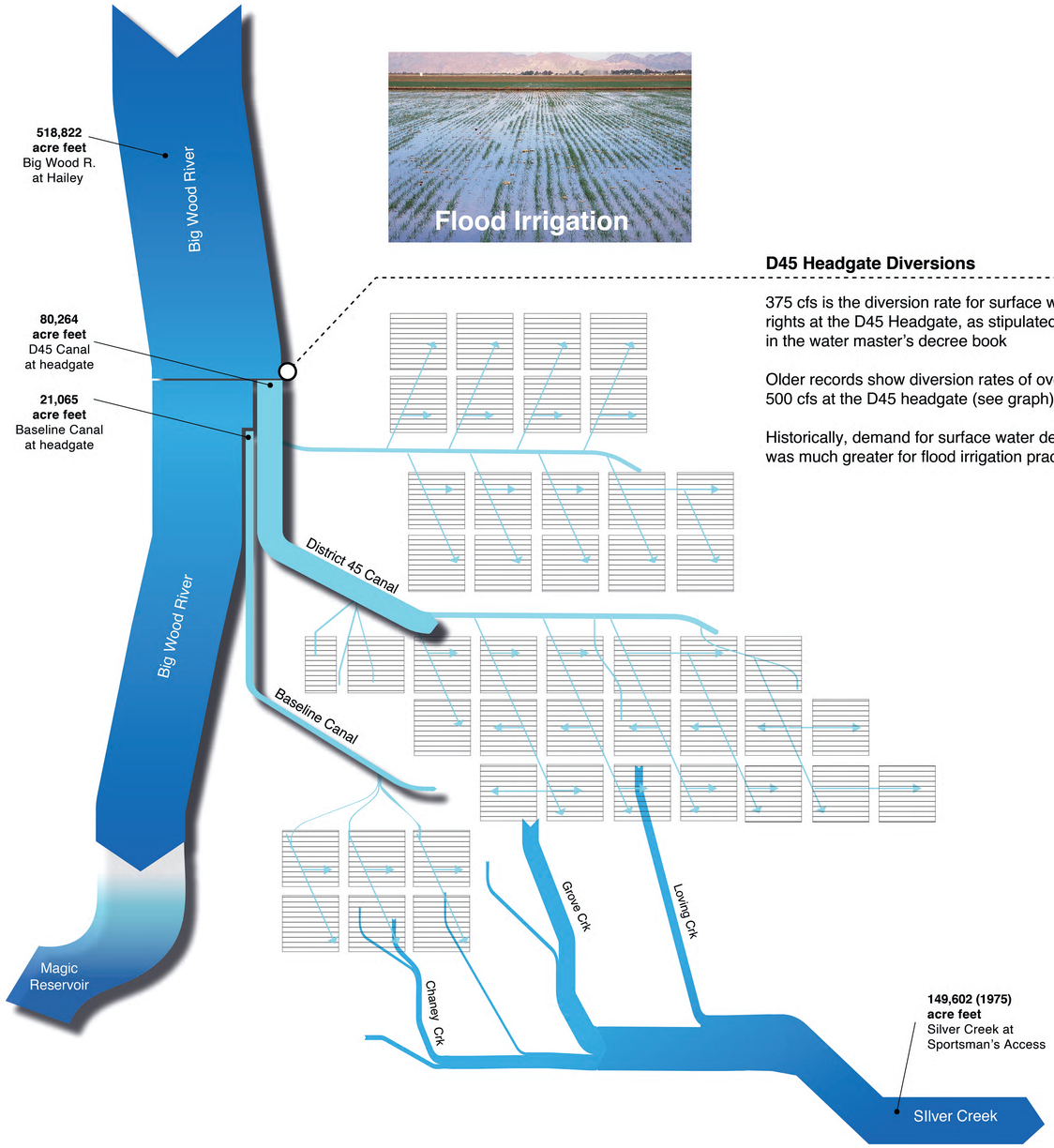
47%
less water
10,200 acre feet reduction from 1970 to 2016







1971 WATER VOLUMES - FLOOD IRRIGATION



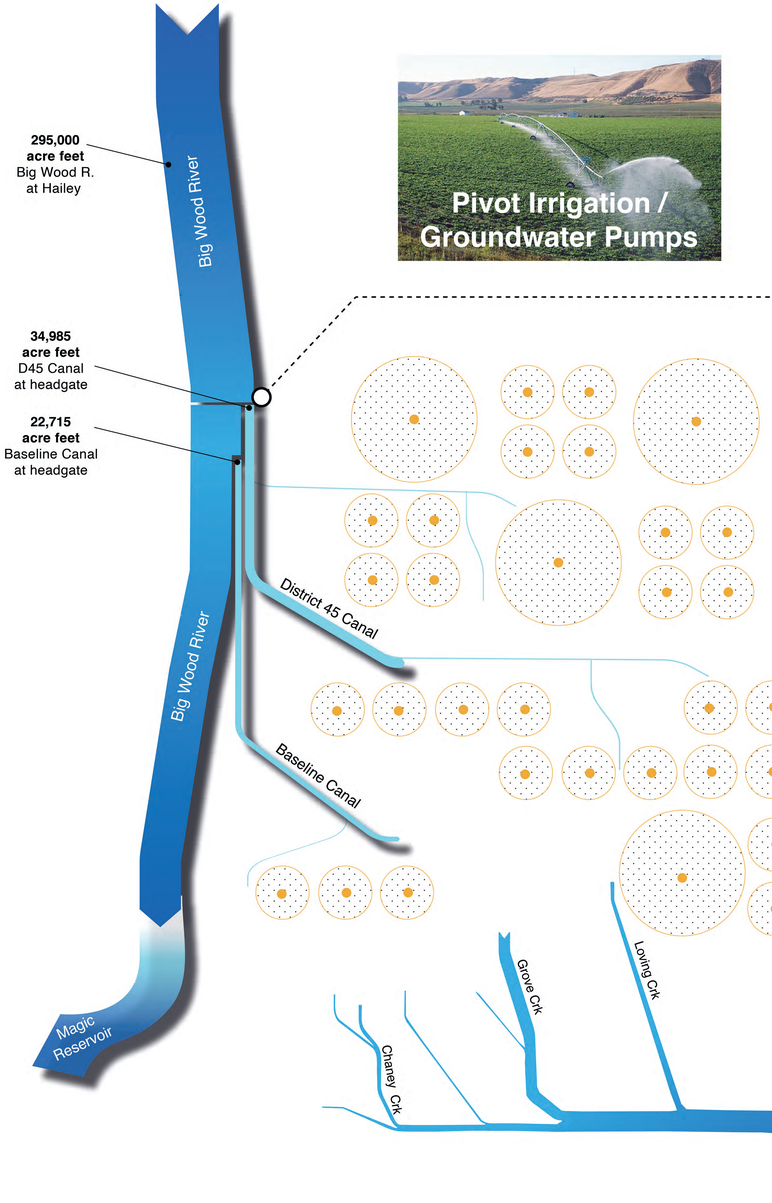
D45 Headgate Diversions

375 cfs is the diversion rate for surface water rights at the D45 Headgate, as stipulated in the water master's decree book

Older records show diversion rates of over 500 cfs at the D45 headgate (see graph)

Historically, demand for surface water delivery was much greater for flood irrigation practice

2016 WATER VOLUMES - PIVOT IRRIGATION



D45 Headgate Diversions

225 cfs is the typical maximum diversion rate for surface water rights at the D45 Headgate

In 2018, the maxumum diversion rate was less than 200 cfs

Today, demand for surface water delivery is much less becuase pivot / sprinkler irrigation practices

Silver Creek Volume

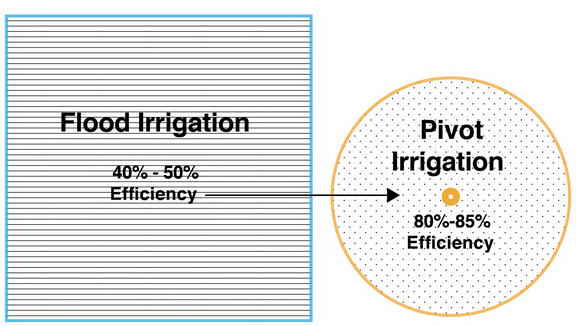
1975 to 2016

54 %

less water

80,800 acre feet reduction from 1975 to 2016

IRRIGATION PRACTICE & WATER DIVERSIONS



Change in Irrigation Practice

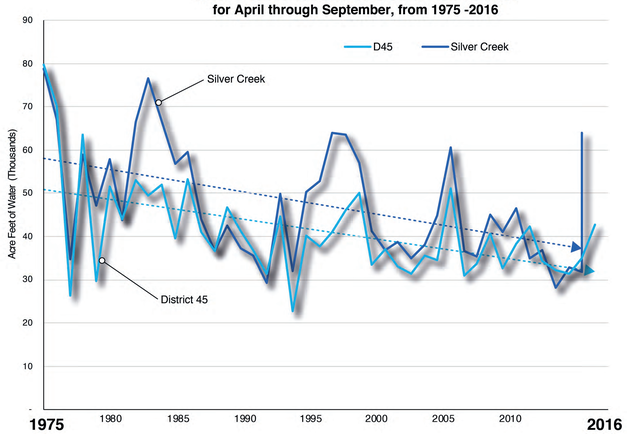
1970 to 2016

45%

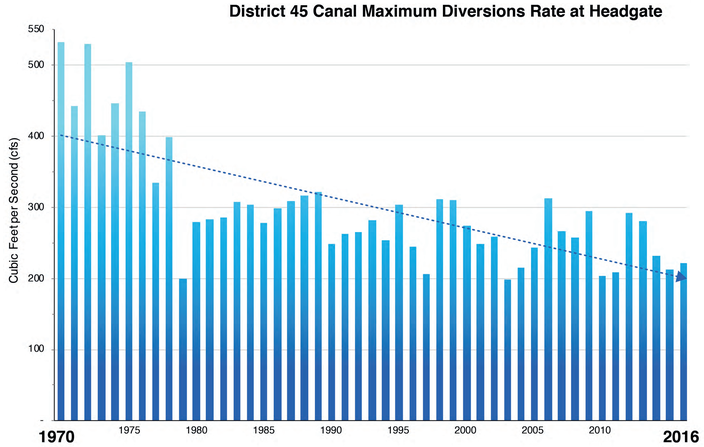
water savings

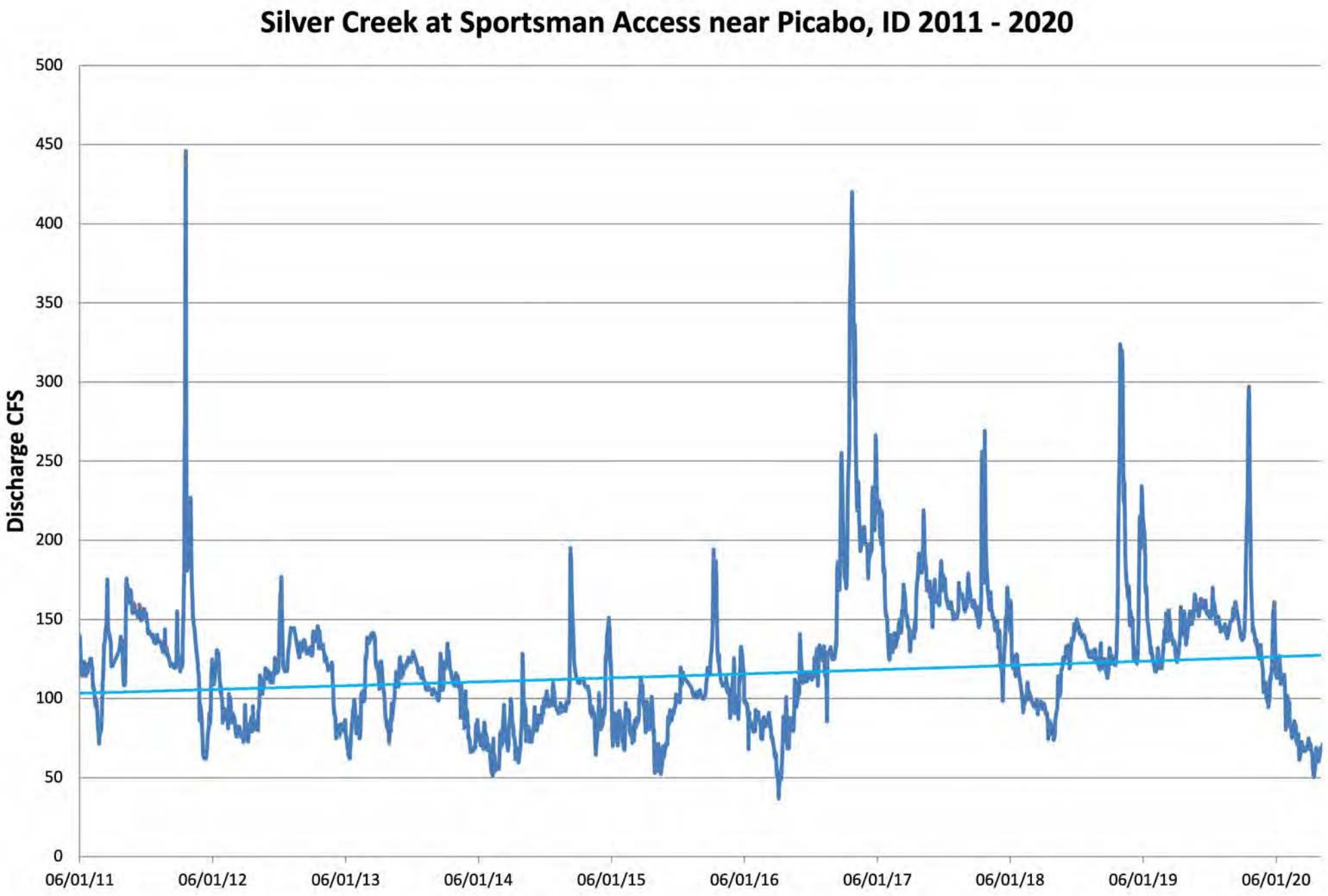
the potentials annual savings associated with switching from flood to pivot irrigation ranges from 1.5 - 3.0 acre-feet/acre.

Silver Creek versus District 45 Canal Flow Volumes for April through September, from 1975 -2016



District 45 Canal Maximum Diversions Rate at Headgate




Silver Creek at Sportsman Access near Picabo, ID 2011 - 2020
Discharge CFS
500
450
400
350
300
250
200
150
100
50
0
06/01/11
06/01/12
06/01/13
06/01/14
06/01/15
06/01/16
06/01/17
06/01/18
06/01/19
06/01/20