



Preliminary Reach Gain Calculations, Wood River Valley Groundwater Flow Model

Preliminary data presented to Modeling Technical Advisory Committee

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UprWoodStreams05302013

Reach

- Big Wood, Nr Ketchum to Hulen Rd
- Big Wood, Hulen Rd to Ketchum
- Big Wood, Ketchum to Gimlet
- Big Wood, Gimlet to Hailey
- Big Wood, Hailey to N Broadford
- Big Wood, N Broadford to S Broadford
- Big Wood, S Broadford to Glendale
- Big Wood, Glendale to Sluder
- Big Wood, Sluder to Wood River Ranch
- Big Wood, Wood River Ranch to Stanton Crossing
- Buhler Drain abv Hwy 20
- Patton Creek abv Hwy 20
- Cain Creek abv Hwy 20
- Chaney Creek abv Hwy 20
- Mud Creek abv Hwy 20
- Wilson Creek abv Hwy 20
- Grove Creek abv Hwy 20
- Loving Creek abv Hwy 20
- spring creeks blw Hwy 20
- Silver Creek, Sportsman Access to Nr Picabo

UprWoodCanals06032013

CanalSys

- Comstock
- Rinker
- Mizer Valley Club
- Hiawatha 22
- Cove 33
- Broadford 34 to 42
- District 45
- Bannon 49
- Glendale 50
- Bypass Baseline
- Bypass return
- Graff 62
- Loving Silver
- Kilpatrick Albretheson

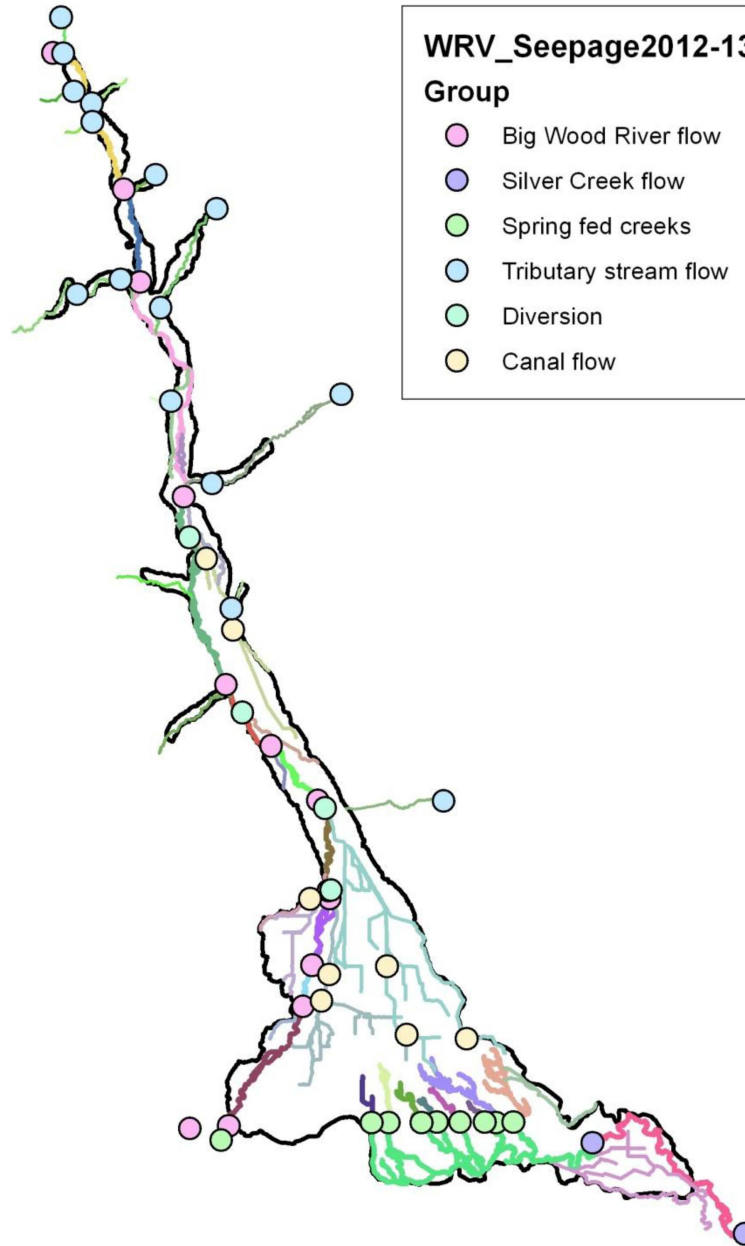
WRV_Seepage2012-13

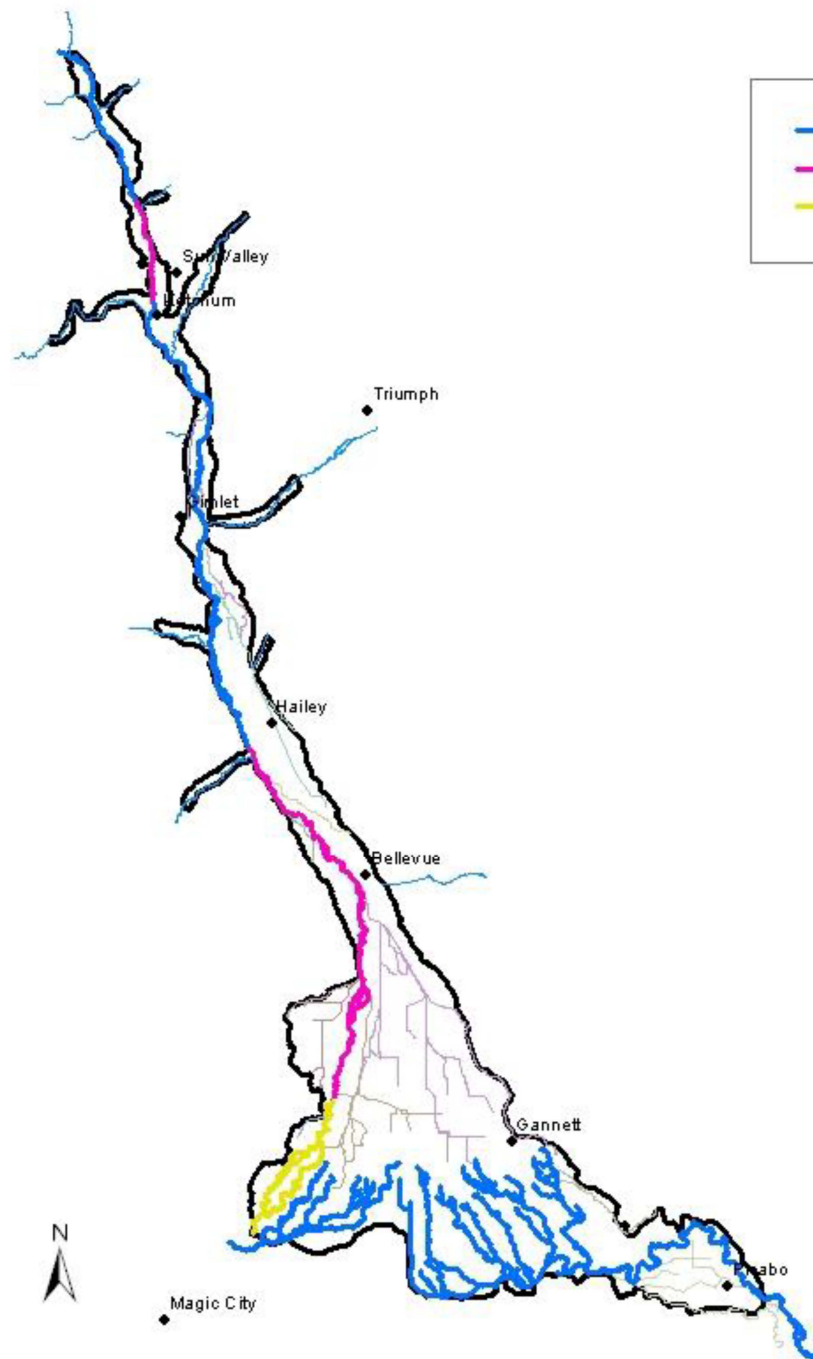
Group

- Big Wood River flow
- Silver Creek flow
- Spring fed creeks
- Tributary stream flow
- Diversion
- Canal flow

UprWoodTribes06032013

- North Fork
- Chocolate Gulch
- Eagle Creek
- Fox Creek
- Lake Creek
- Warm Springs Creek
- Trail Creek
- Clear Creek
- East Fork
- Deer Creek
- Indian Creek
- Croy Creek
- Seamans Creek





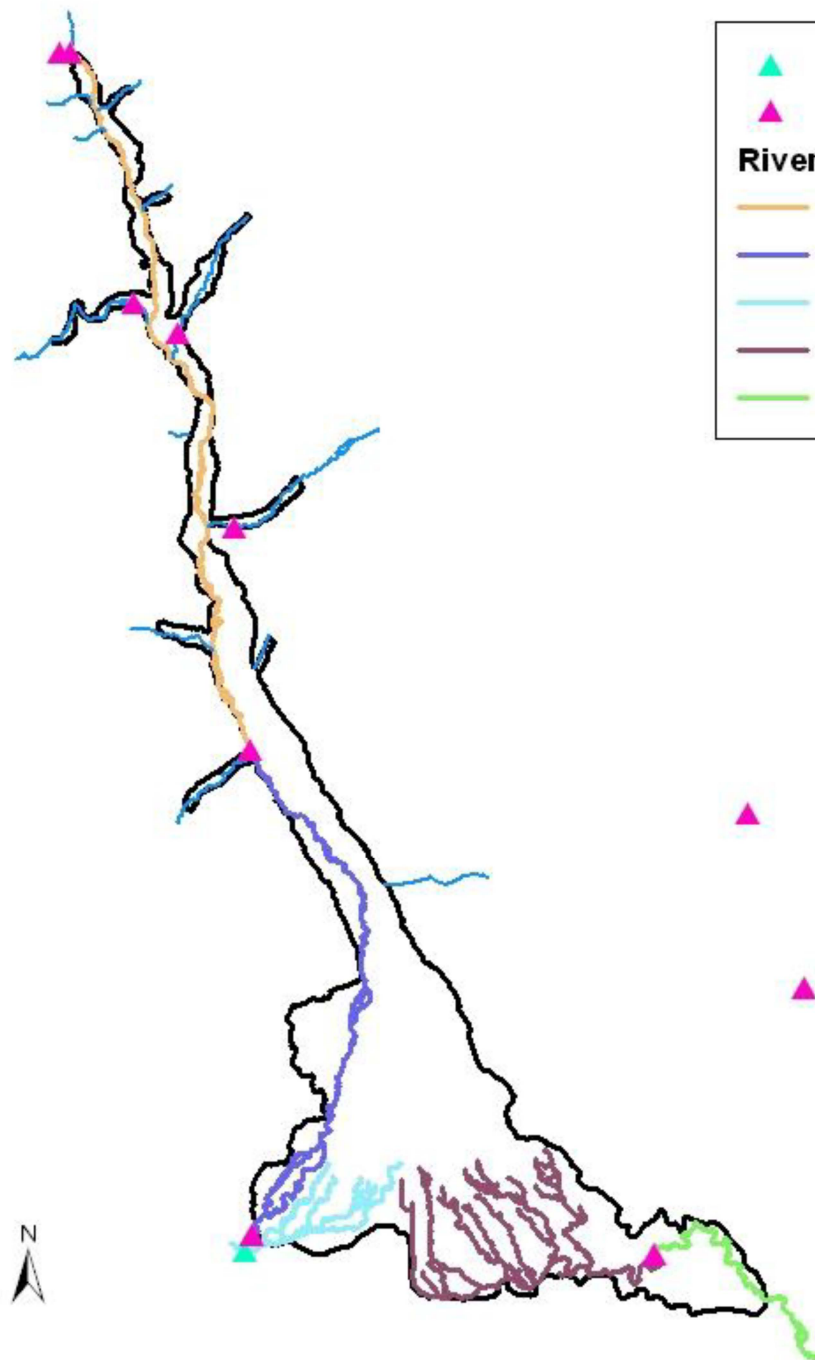
- Gaining reach
- Losing reach
- Seasonally gaining or losing

0 5 10
Miles



Continuous recording gage stations

- Big Wood River near Ketchum (SNRA HQ)
 - 1948-1971 and 4/2011 →
- Big Wood River at Hailey
 - 7/1915 →
- North Fork, Warm Springs Creek, Trail Creek, East Fork
 - Fall 2010 or spring 2011 →
- Big Wood River at Stanton Crossing
 - 9/1996 →
- Willow Creek
 - 6/2000 →
- Silver Creek at Sportsman Access
 - 10/1974 – 9/2006 and 10/2007 →



▲ IPCO gages

▲ USGS gages

River Reaches

— Big Wood, Nr Ketchum to Hailey

— Big Wood, Hailey to Stanton Crossing

— Willow Creek

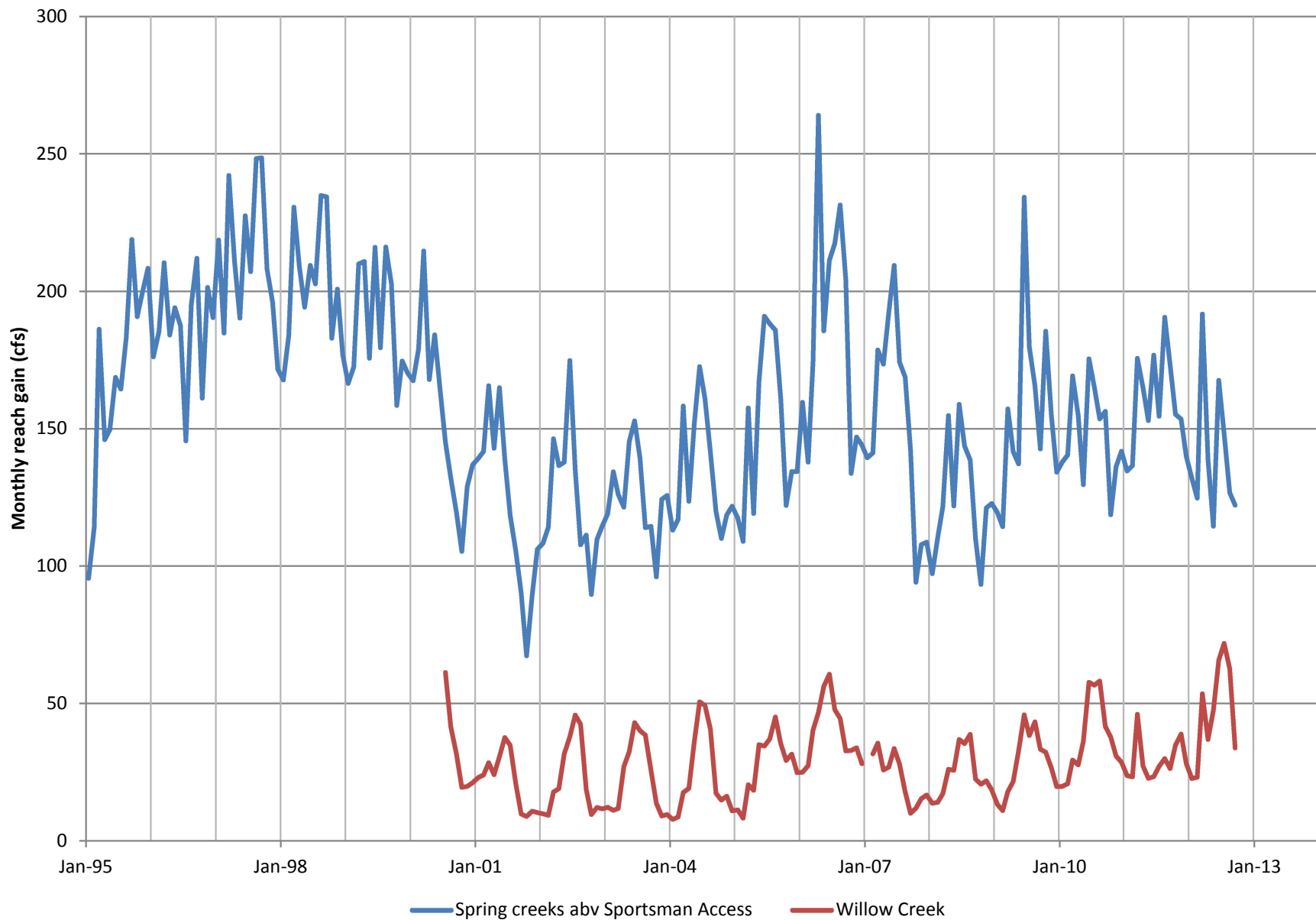
— Spring creeks abv Sportsman

— Silver Creek blw Sportsman

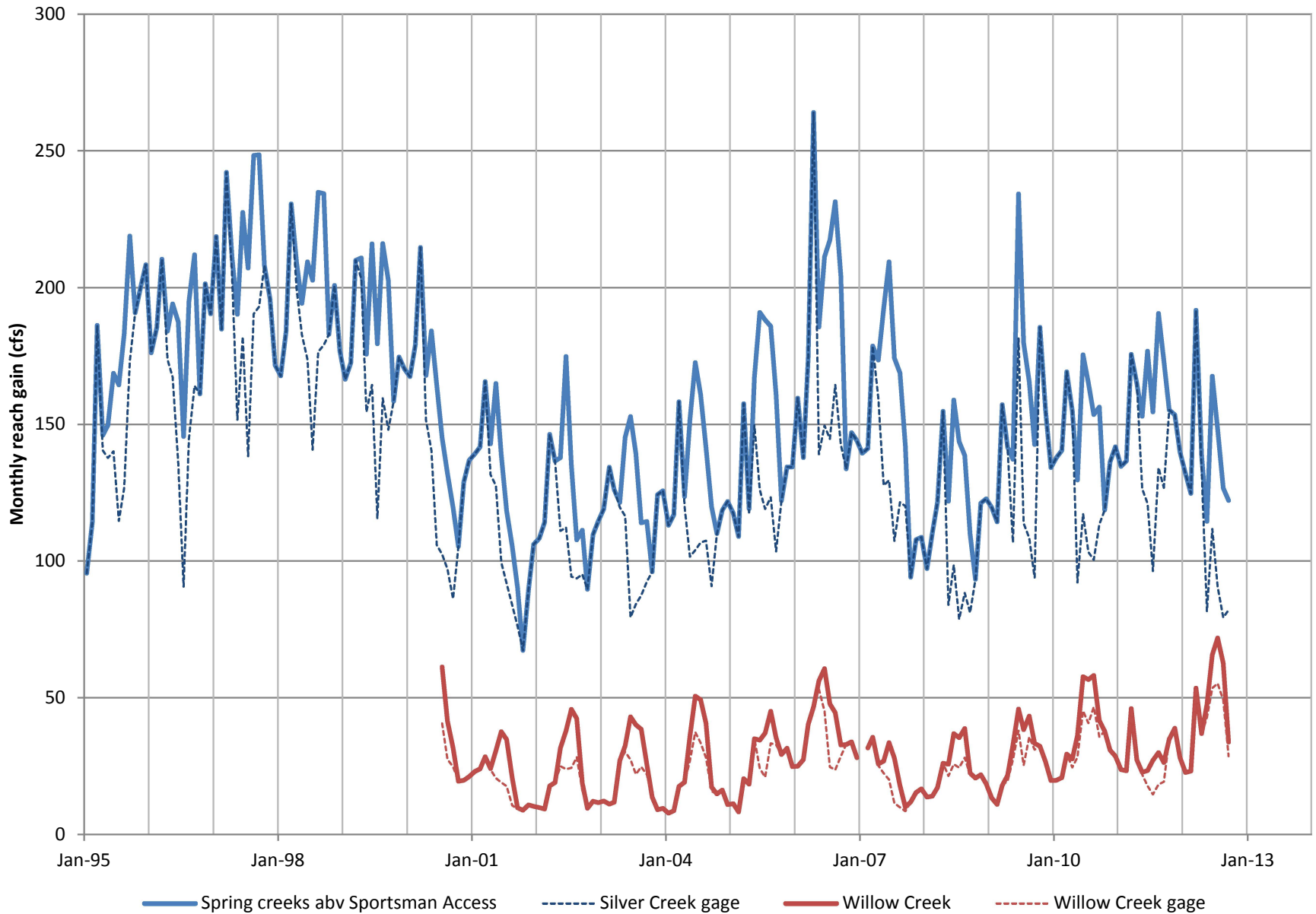
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Miles

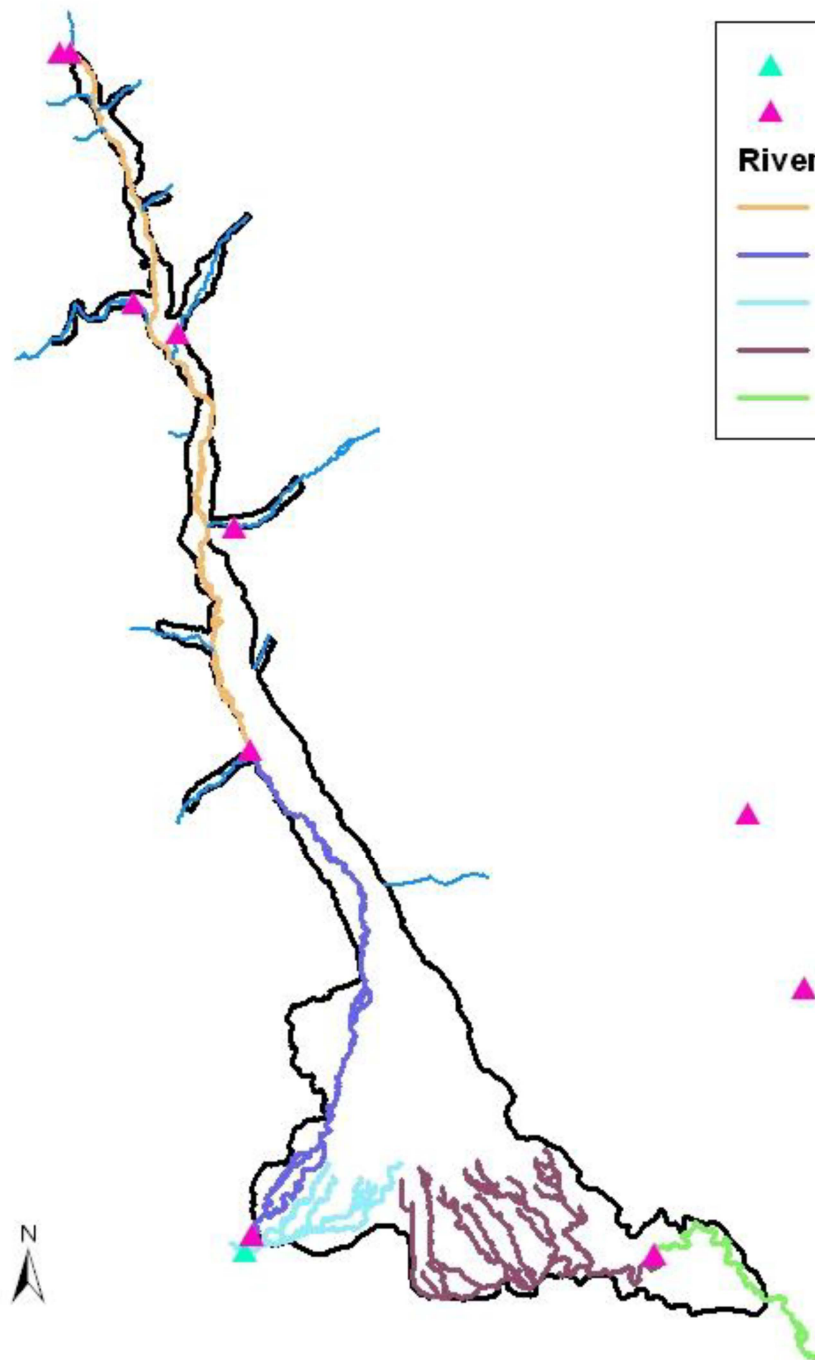


Willow Creek and Spring creeks above Sportsman Access



Willow Creek and Spring creeks above Sportsman Access





▲ IPCO gages

▲ USGS gages

River Reaches

— Big Wood, Nr Ketchum to Hailey

— Big Wood, Hailey to Stanton Crossing

— Willow Creek

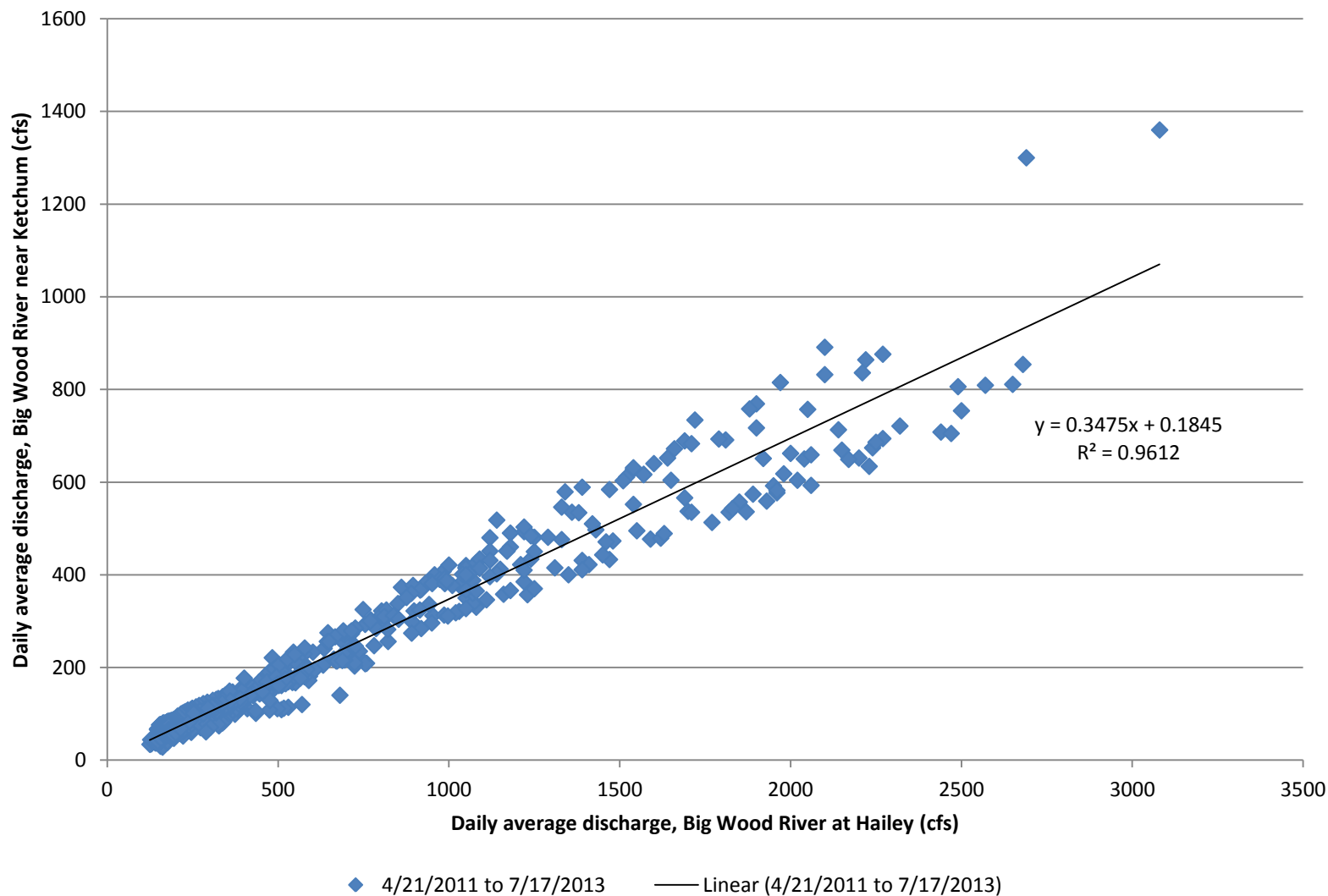
— Spring creeks abv Sportsman

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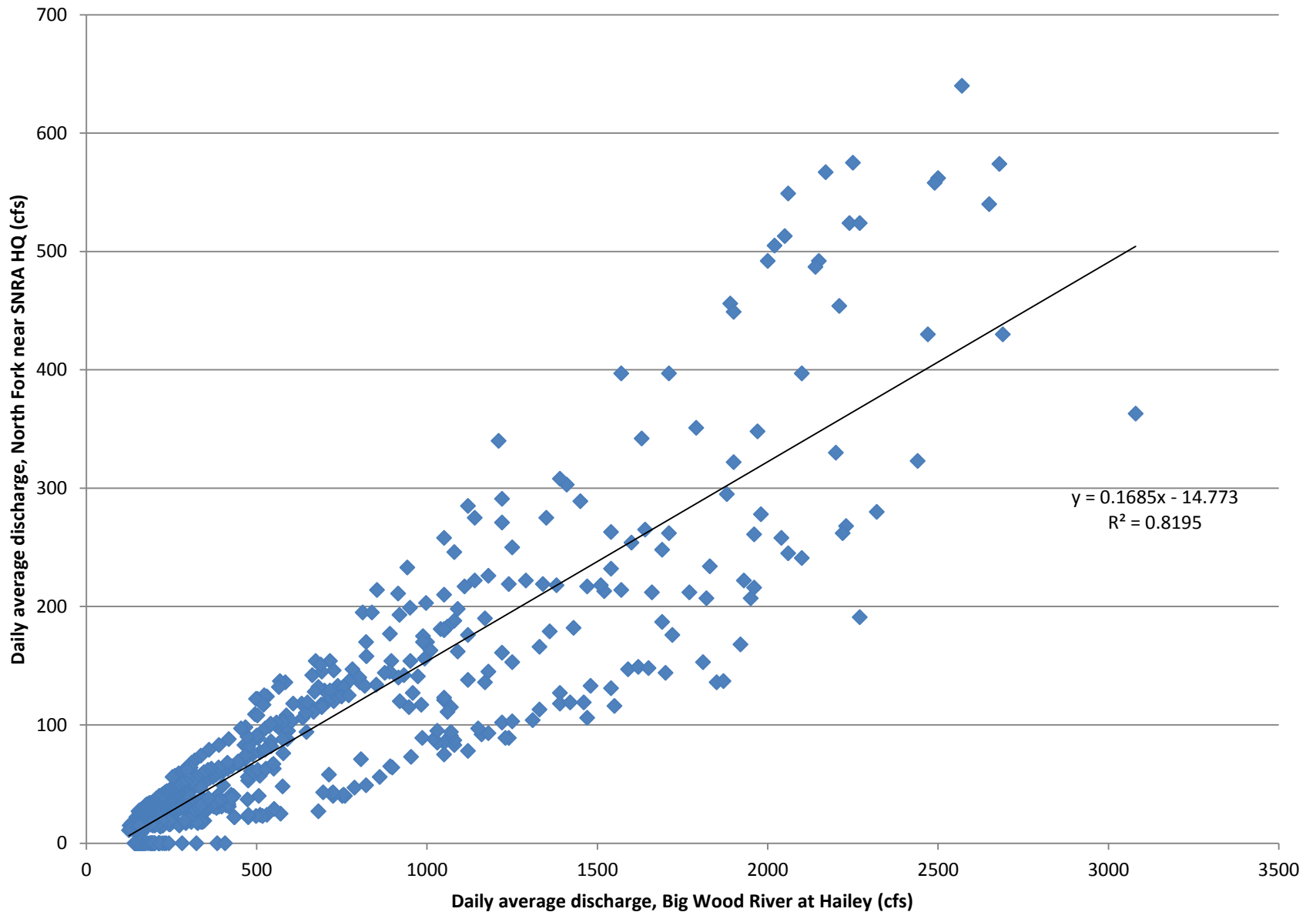
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Miles



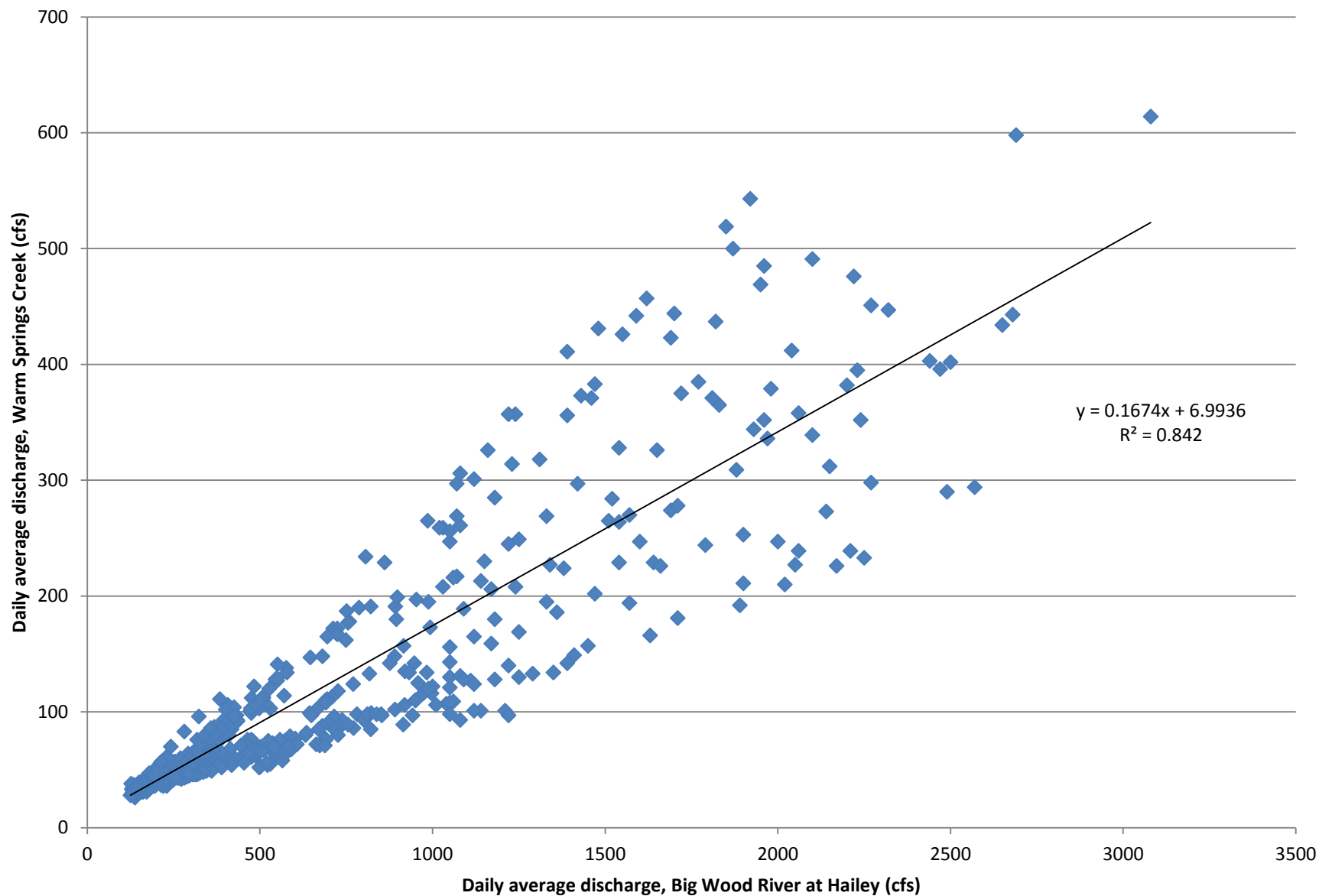
Near Ketchum vs. Hailey gage readings, 4/2011 - 7/2013



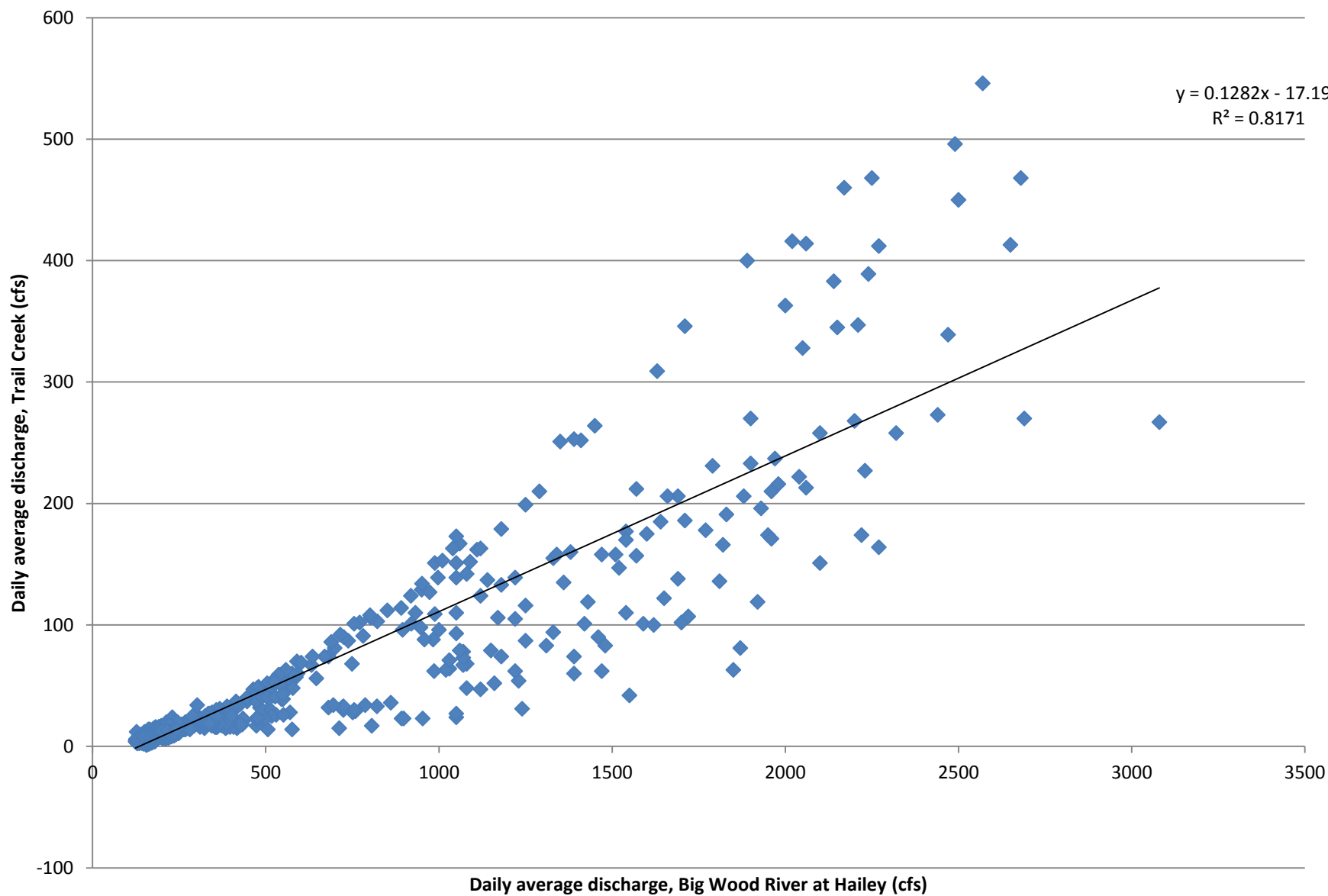
North Fork vs. Hailey gage, 4/2011 - 7/2013



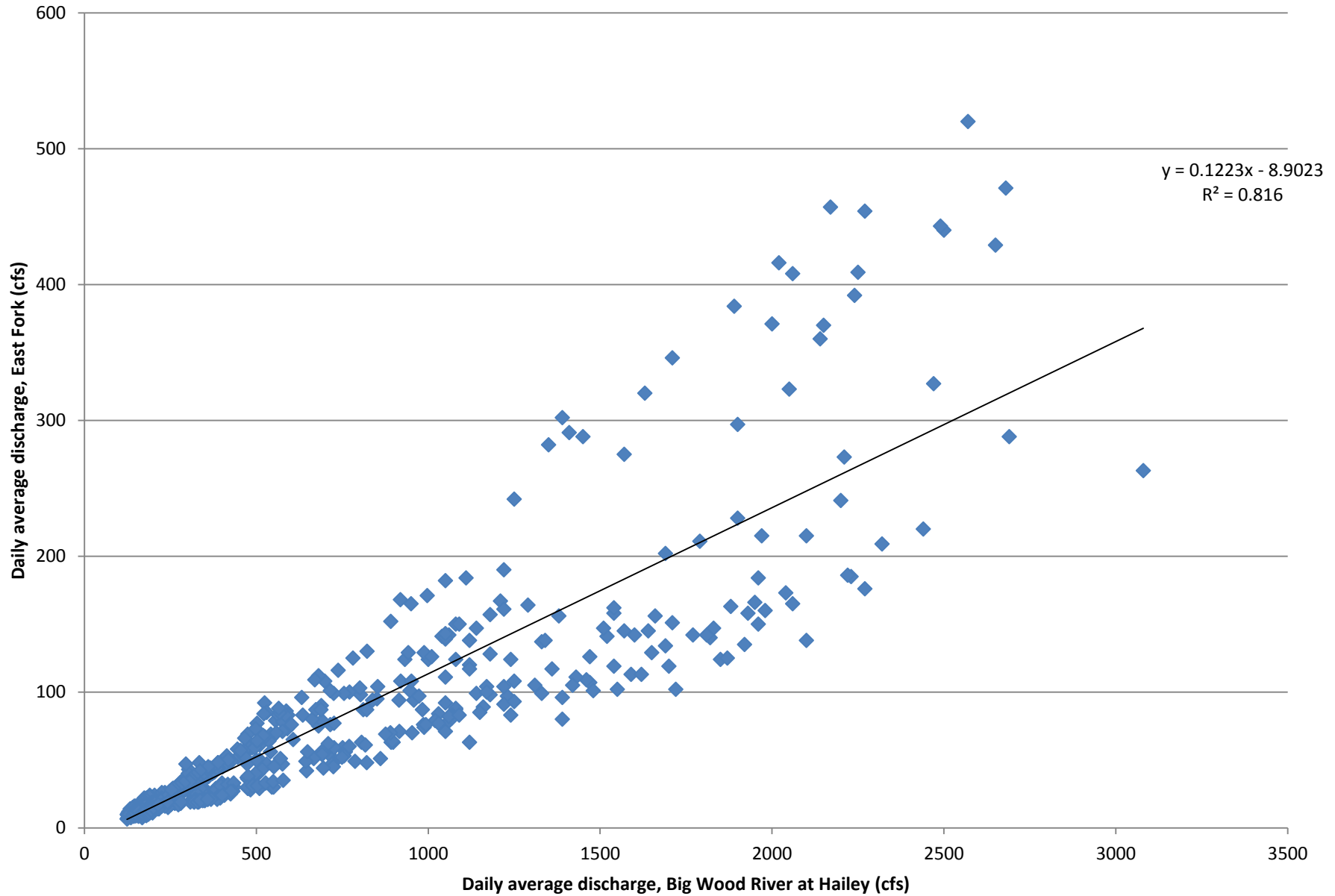
Warm Springs Creek vs. Hailey gage, 1/2011 - 7/2013



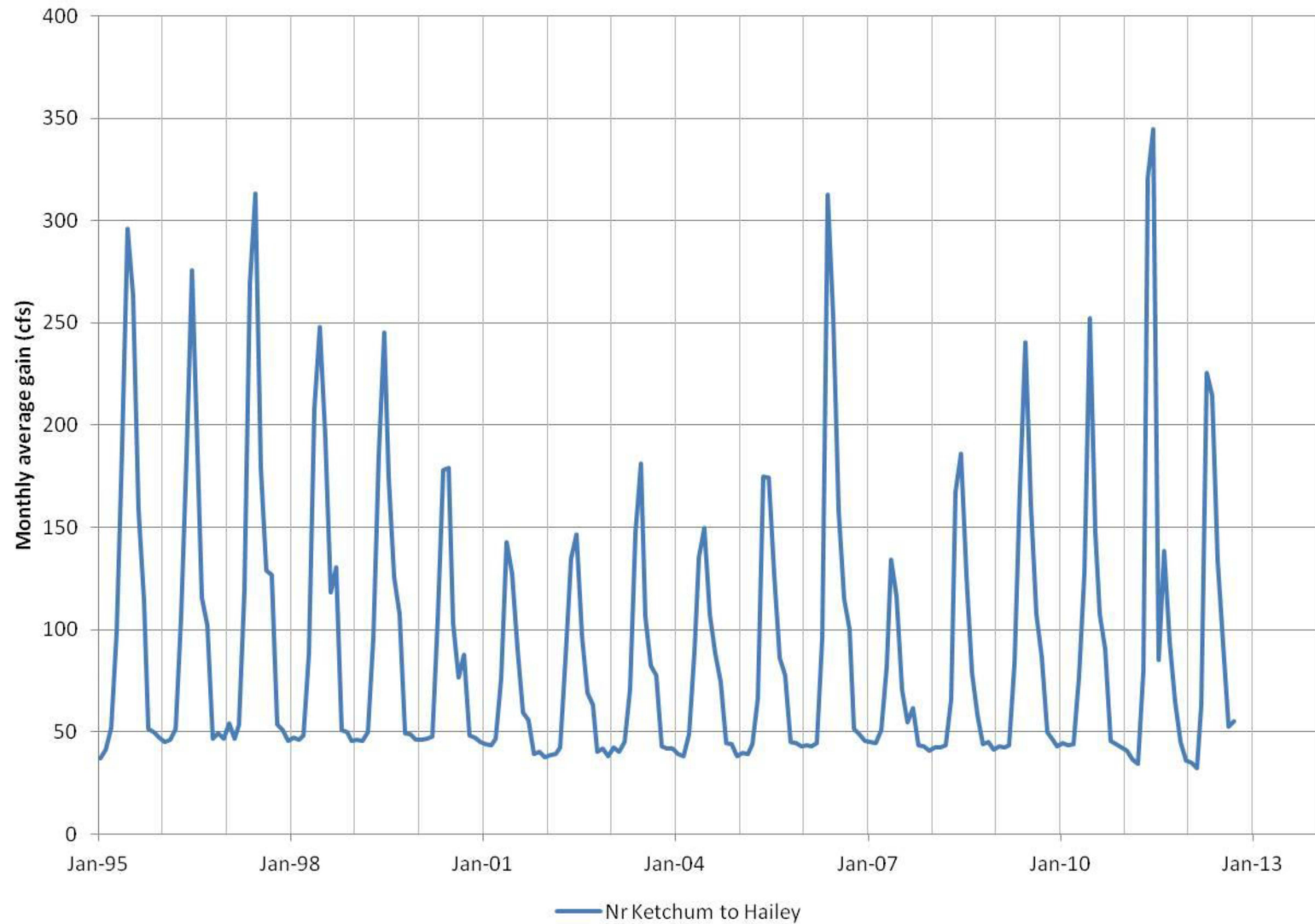
Trail Creek vs. Hailey gage, 11/2010 - 7/2013



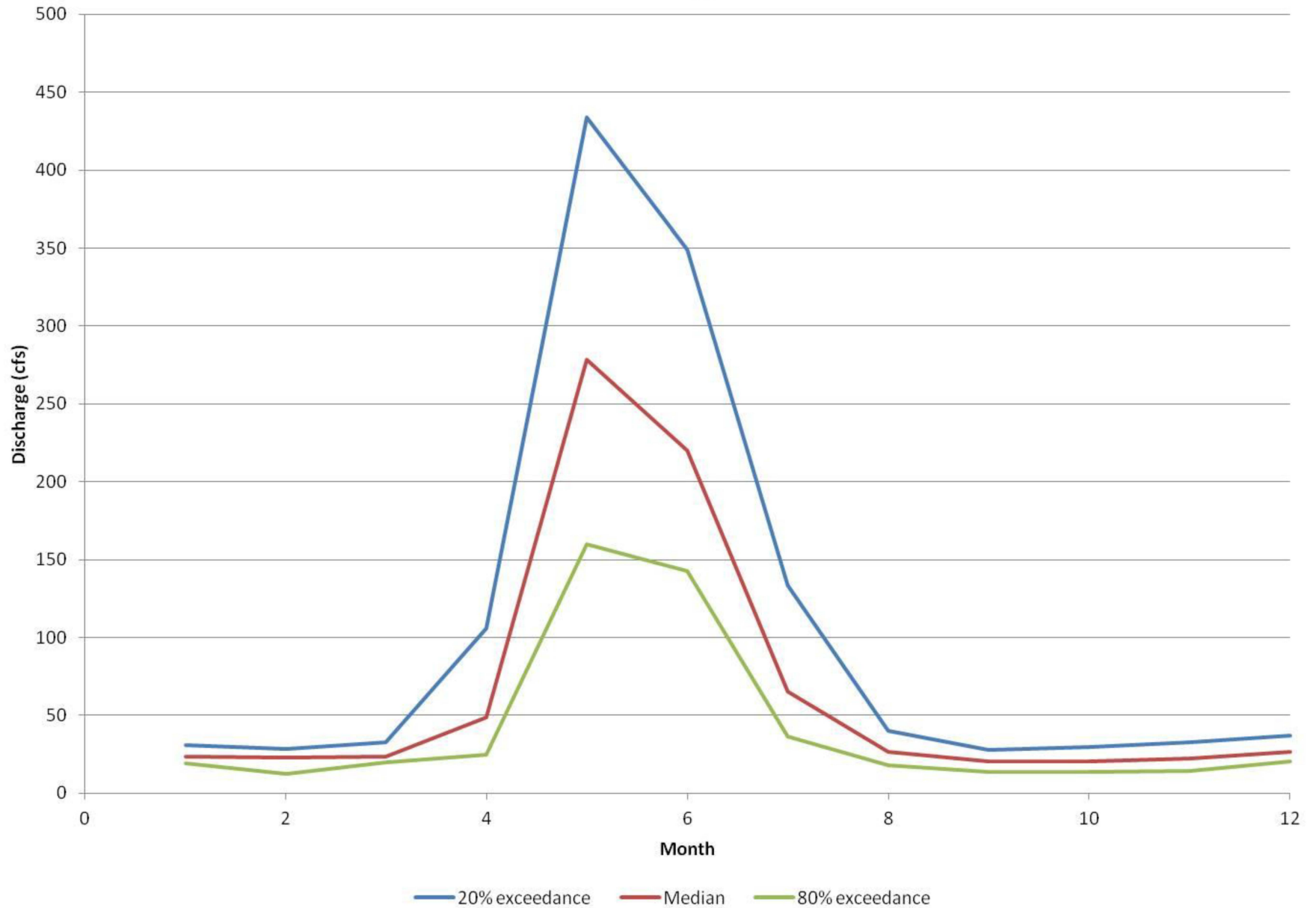
East Fork vs. Hailey gage, 10/2010 - 7/2013



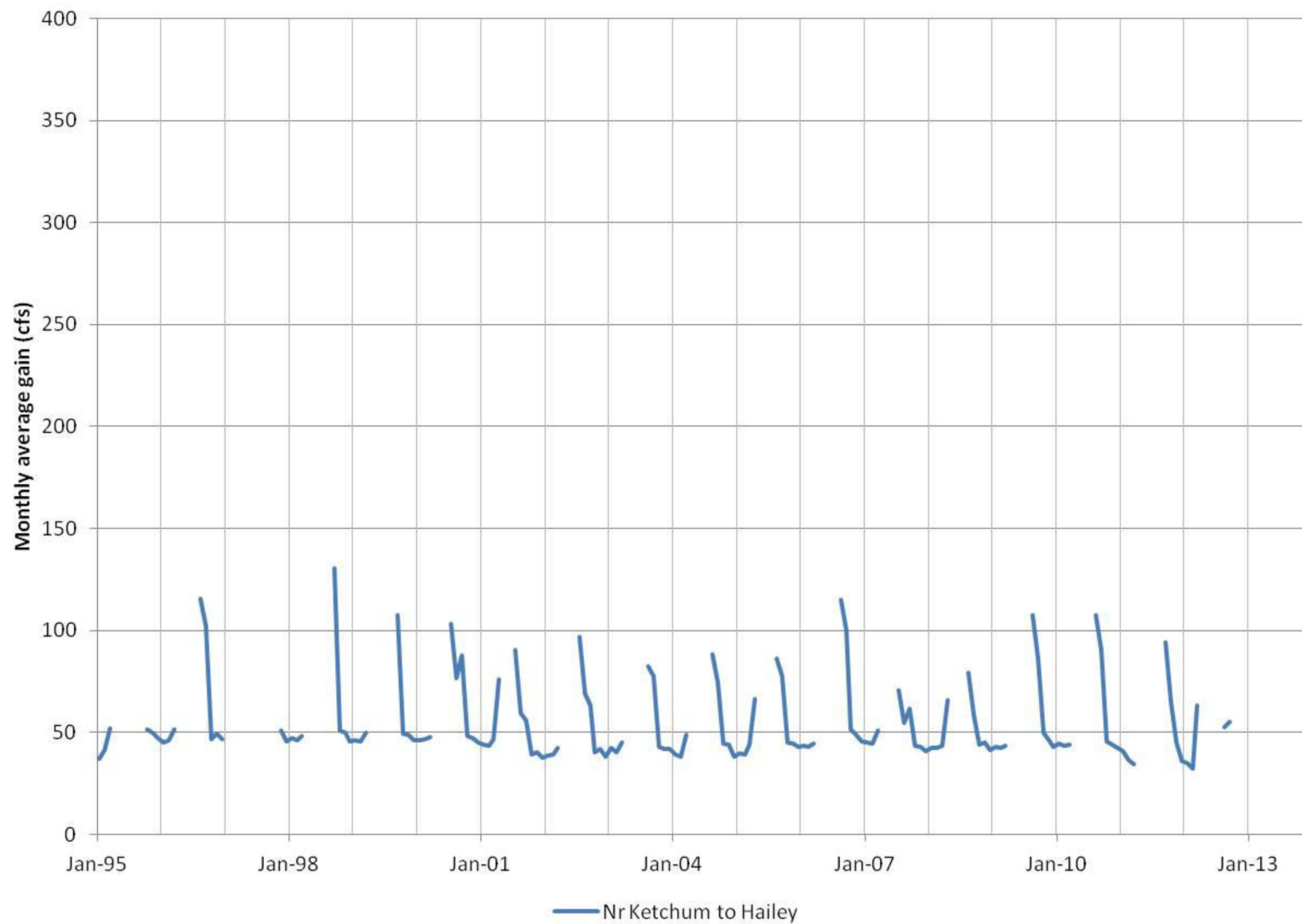
Nr Ketchum to Hailey reach gain (includes runoff from smaller tributaries)



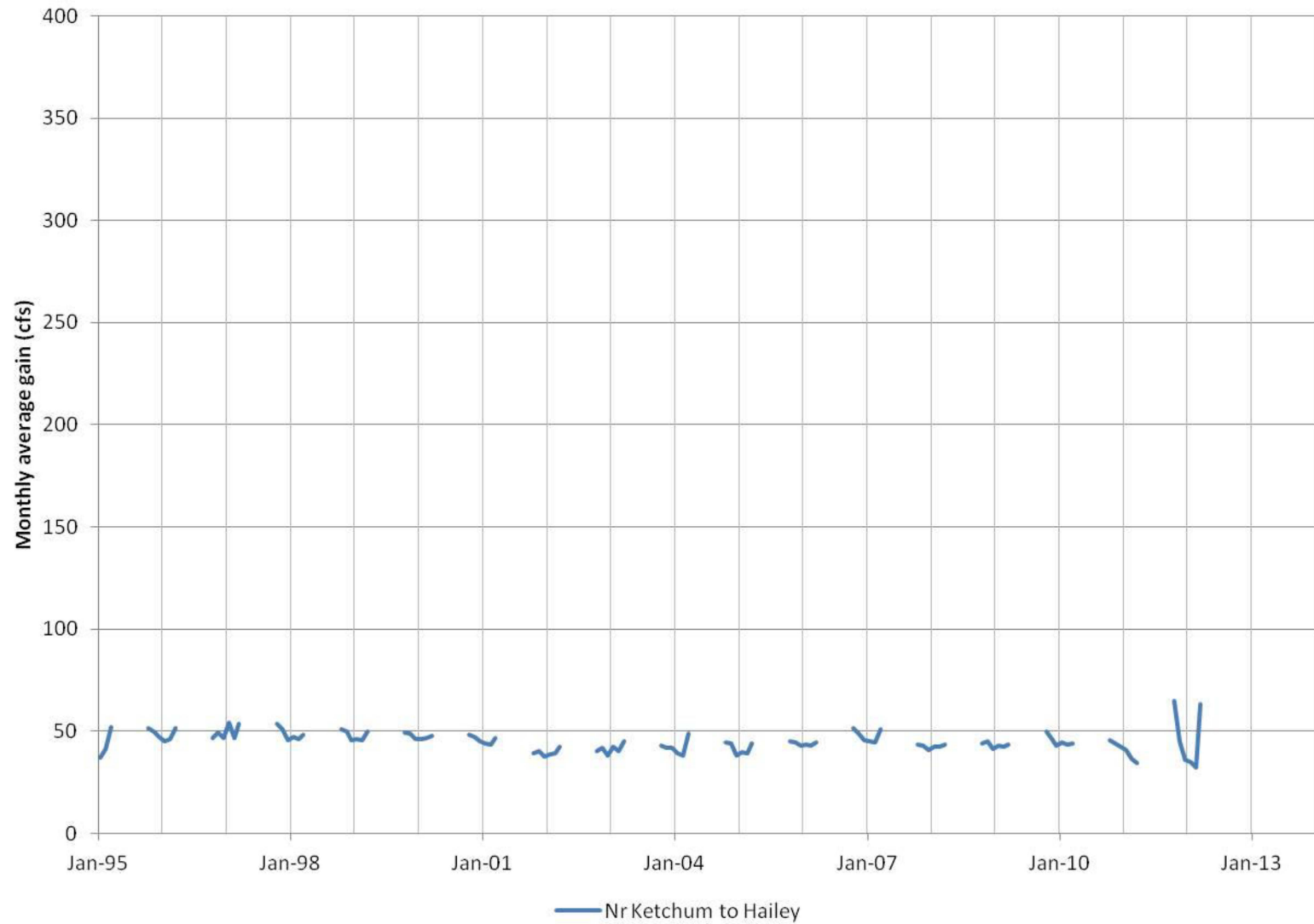
StreamStats estimated discharge from smaller tributaries

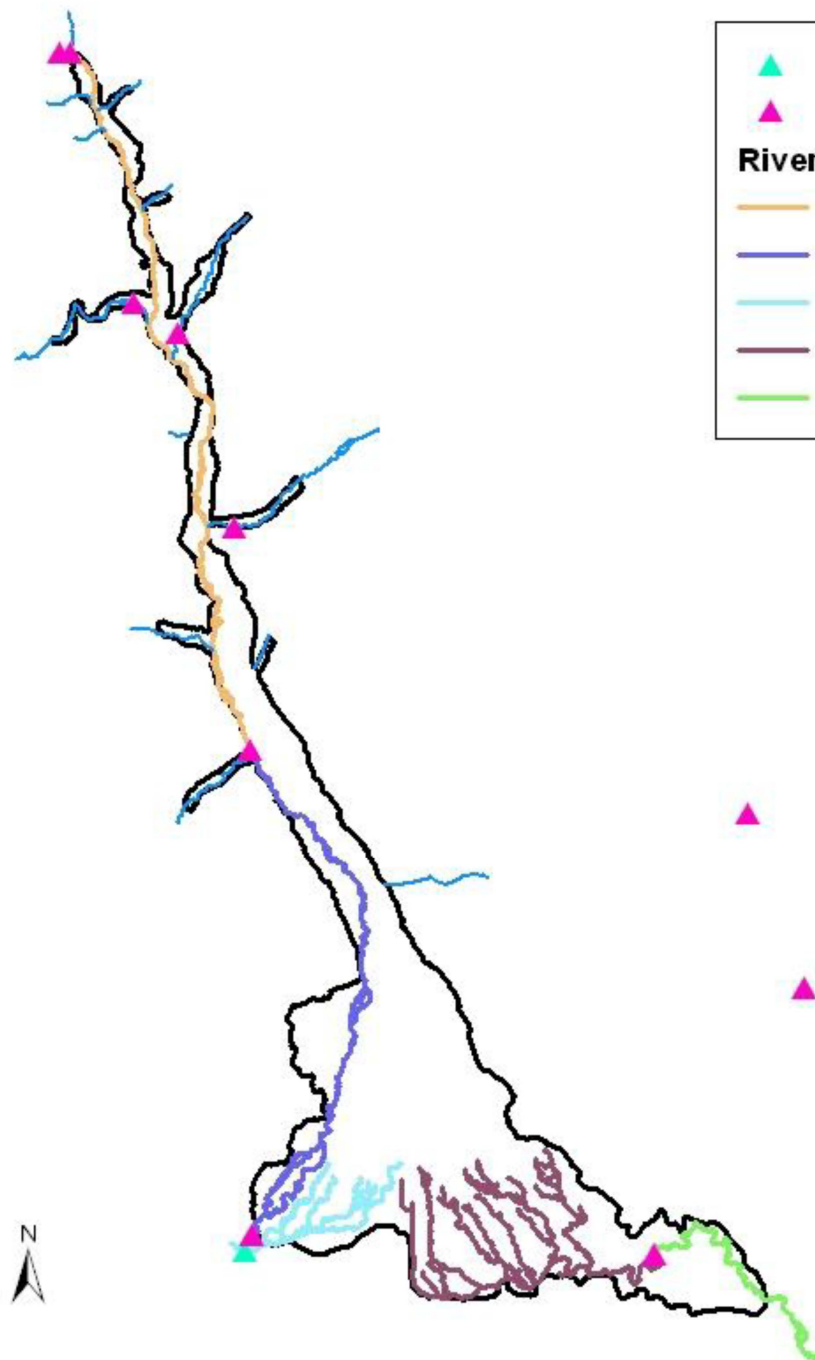


Nr Ketchum to Hailey reach gain (13139510 < 300 cfs)



Nr Ketchum to Hailey reach gain (October - March)





▲ IPCO gages

▲ USGS gages

River Reaches

— Big Wood, Nr Ketchum to Hailey

— Big Wood, Hailey to Stanton Crossing

— Willow Creek

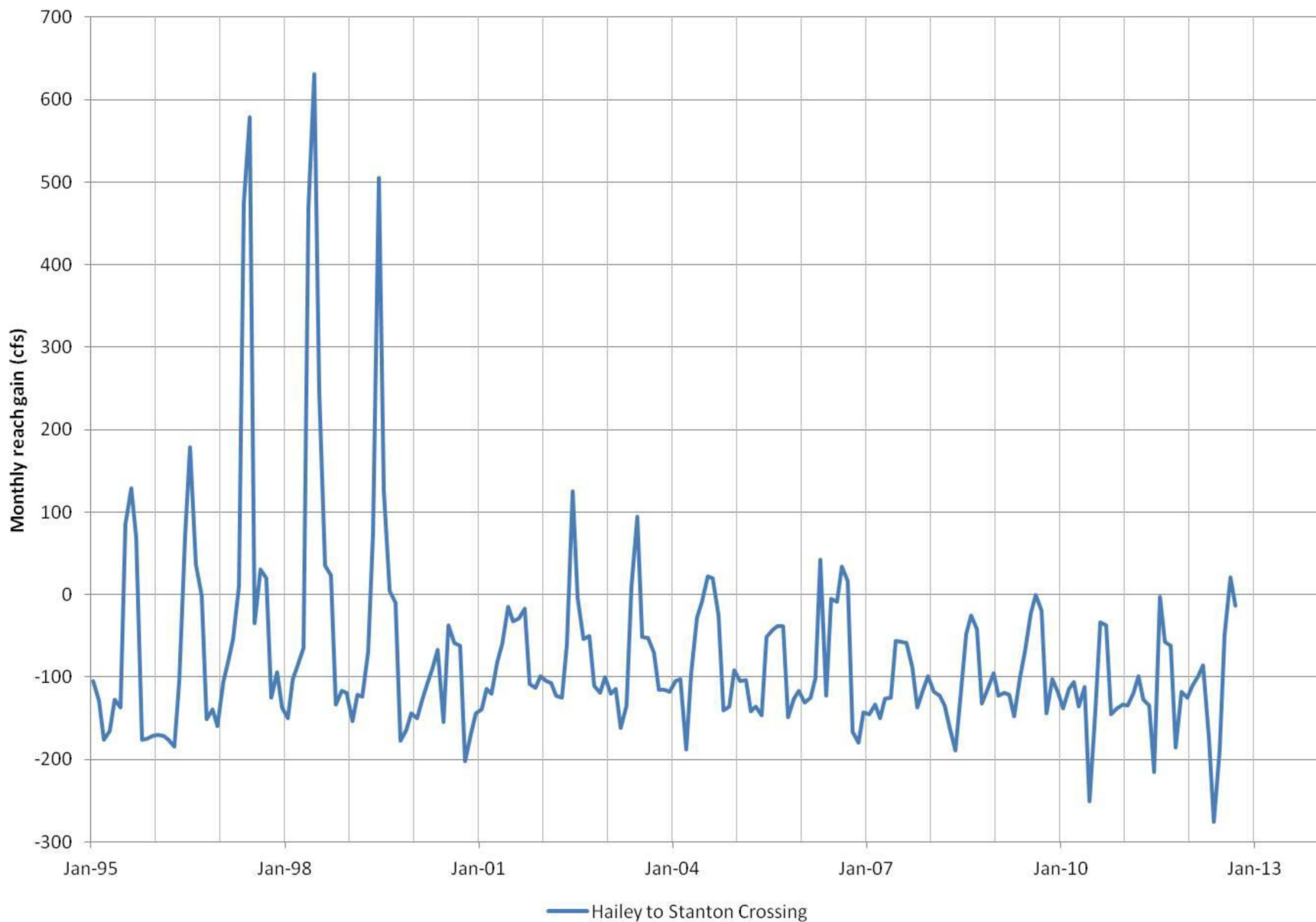
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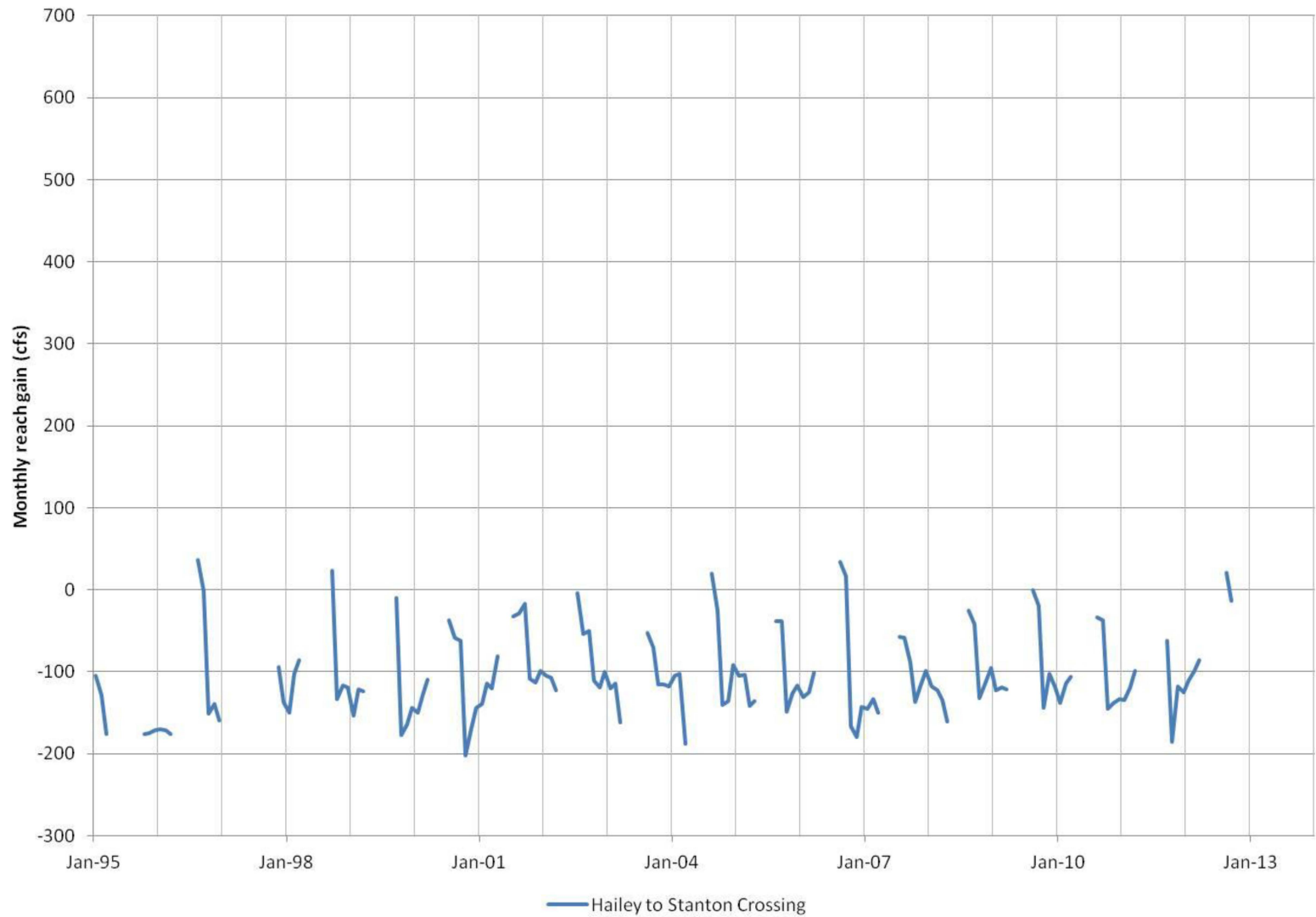
0 5 10
Miles



Hailey to Stanton Crossing (includes smaller tributaries)



Hailey to Stanton Crossing (13139510 < 300 cfs)



Hailey to Stanton Crossing (October to March)

