

**Streamflow Adjustment List for All Forecasts Published in Idaho Water Supply Outlook Report:** Streamflow forecasts are projections of runoff volumes that would occur without influences from upstream reservoirs or diversions. These values are referred to as natural, unregulated or adjusted flows. To make these adjustments, changes in reservoir storage, diversions, and inter-basin transfers are added or subtracted from the observed (actual) streamflow volumes. The following list documents the adjustments made for each forecast point. **(Revised Dec. 2018).**

**Panhandle Region**

Kootenai R at Leonia, MT (2)

+ Lake Koocanusa storage change

Moyie R at Eastport – no corrections

Boundary Ck nr Porthill – no corrections

Clark Fork R bl Cabinet Gorge (2)

+ Hungry Horse storage change

+ Flathead Lake storage change

+ Noxon Res storage change

Whitehorse Rapid gage used create longer term record

Pend Oreille Lake Inflow (2)

+ Pend Oreille R at Newport, WA

+ Hungry Horse Res storage change

+ Flathead Lake storage change

+ Noxon Res storage change

+ Lake Pend Oreille storage change

+ Priest Lake storage change

Priest R nr Priest R (2)

+ Priest Lake storage change

NF Coeur d' Alene R at Enaville - no corrections

St. Joe R at Calder- no corrections

Spokane R nr Post Falls (2)

+ Lake Coeur d' Alene storage change

Spokane R at Long Lake, WA (2)

+ Lake Coeur d' Alene storage change

+ Long Lake, WA storage change

**Clearwater River Basin**

Selway R nr Lowell - no corrections

Lochsa R nr Lowell - no corrections

Dworshak Res Inflow (2)

+ Clearwater R nr Peck

- Clearwater R at Orofino

+ Dworshak Res storage change

Clearwater R at Orofino - no corrections

Clearwater R at Spalding (2)

+ Dworshak Res storage change

**Salmon River Basin**

Salmon R at Salmon - no corrections

Lemhi R nr Lemhi – no corrections

MF Salmon R at MF Lodge – no corrections

SF Salmon gage used to create longer term record

SF Salmon R nr Krassel Ranger Station – no corrections

Johnson Creek at Yellow pine – no corrections

Salmon R at White Bird - no corrections

**West Central Basins**

Boise R nr Twin Springs - no corrections

SF Boise R at Anderson Ranch Dam (2)

+ Anderson Ranch Res storage change

Mores Ck nr Arrowrock Dam – no corrections

Boise R nr Boise (2)

+ Anderson Ranch Res storage change

+ Arrowrock Res storage change

+ Lucky Peak Res storage change

SF Payette R at Lowman - no corrections

Deadwood Res Inflow (2)

+ Deadwood R bl Deadwood Res nr Lowman

+ Deadwood Res storage change

Lake Fork Payette R nr McCall – no corrections

NF Payette R at Cascade (2)

+ Payette Lake storage change

+ Cascade Res storage change

NF Payette R nr Banks (2)

+ Payette Lake storage change

+ Cascade Res storage change

Payette R nr Horseshoe Bend (2)

+ Deadwood Res storage change

+ Payette Lake storage change

+ Cascade Res storage change

Weiser R nr Weiser - no corrections

**Wood and Lost Basins**

Little Lost R bl Wet Ck nr Howe - no corrections

Big Lost R at Howell Ranch - no corrections

Big Lost R bl Mackay Res nr Mackay (2)

+ Mackay Res storage change

Little Wood R ab High Five Ck – no corrections

Little Wood R nr Carey (2)

+ Little Wood Res storage change

Big Wood R at Hailey - no corrections

Big Wood R ab Magic Res (2)

+ Big Wood R nr Bellevue (1912-1996)

+ Big Wood R at Stanton Crossing nr Bellevue (1997 to present)

+ Willow Ck (1997 to present)

Camas Ck nr Blaine – no corrections

Magic Res Inflow (2)

+ Big Wood R bl Magic Dam

+ Magic Res storage change

**Upper Snake River Basin**

Falls R nr Ashton (2)

+ Grassy Lake storage change

+ Diversions from Falls R ab nr Ashton

Henrys Fork nr Ashton (2)

+ Henrys Lake storage change

+ Island Park Res storage change

Teton R nr Driggs - no corrections

Teton R nr St. Anthony (2)

- Cross Cut Canal into Teton R

+ Sum of Diversions for Teton R ab St. Anthony

+ Teton Dam for water year 1976 only

- Henrys Fork nr Rexburg (2)
  - + Henrys Lake storage change
  - + Island Park Res storage change
  - + Grassy Lake storage change
  - + 3 Diversions from Falls R ab Ashton-Chester
  - + 6 Diversions from Falls R abv Ashton
  - + 7 Diversions from Henrys Fk btw Ashton to St. Anthony
  - + 21 Diversions from Henrys Fk btw St. Anthony to Rexburg

Snake R nr Flagg Ranch, WY – no corrections

- Snake R nr Moran, WY (2)
  - + Jackson Lake storage change

Pacific Ck at Moran, WY - no corrections

Buffalo Fork ab Lava nr Moran, WY - no corrections

- Snake R ab Res nr Alpine, WY (2)
  - + Jackson Lake storage change

Greys R nr Alpine, WY - no corrections

Salt R nr Etna, WY - no corrections

- Palisades Res Inflow (2)
  - + Snake R nr Irwin
  - + Jackson Lake storage change
  - + Palisades Res storage change

- Snake R nr Heise (2)
  - + Jackson Lake storage change
  - + Palisades Res storage change

- Ririe Res Inflow (2)
  - + Willow Ck nr Ririe
  - + Ririe Res storage change

*The forecasted natural volume for Willow Creek nr Ririe does not include Grays Lake water diverted from Willow Creek drainage through the Clarks Cut diversion and into Blackfoot Reservoir.*

- Blackfoot R ab Res nr Henry (2)
  - + Blackfoot Res storage change

*The forecasted Blackfoot Reservoir Inflow includes Grays Lake water diverted from the Willow Creek drainage through the Clarks Cut diversion and into Blackfoot Reservoir.*

Portneuf R at Topaz - no corrections

- American Falls Res Inflow (2)
  - + Snake R at Neeley
  - + Jackson Lake storage change
  - + Palisades Res storage change
  - + American Falls storage change
  - + Teton Dam for water year 1976 only

#### **Southside Snake River Basins**

Goose Ck nr Oakley - no adjustments

Trapper Ck nr Oakley - no adjustments

- Oakley Res Inflow - *flow does not include Birch Creek*
  - + Goose Ck
  - + Trapper Ck

Salmon Falls Ck nr San Jacinto, NV - no corrections

Bruneau R nr Hot Springs - no corrections

Reynolds Ck at Tollgate - no corrections

- Owyhee R nr Gold Ck, NV (2)
  - + Wildhorse Res storage change

Owyhee R nr Rome, OR – no Corrections

Owyhee Res Inflow (2)

- + Owyhee R bl Owyhee Dam, OR
- + Lake Owyhee storage change
- + Diversions to North and South Canals

#### **Bear River Basin**

Bear R nr UT-WY Stateline, UT- no corrections

Bear R abv Res nr Woodruff, UT- no corrections

Big Ck nr Randolph, UT - no corrections

Smiths Fork nr Border, WY - no corrections

Bear R bl Stewart Dam (2)

- + Bear R bl Stewart Dam
- + Rainbow Inlet Canal

Little Bear R at Paradise, UT - no corrections

Logan R nr Logan, UT - no corrections

Blacksmith Fk nr Hyrum, UT - no corrections

#### **Reservoir Capacity Definitions** (Units in 1,000 Acre-Feet, KAF)

Different agencies use various definitions when reporting reservoir capacity and contents. Reservoir storage terms include dead, inactive, active, and surcharge storage. This table lists the volumes for each reservoir, and defines the storage volumes NRCS uses when reporting capacity and current reservoir storage. In most cases, NRCS reports usable storage which includes active and/or inactive storage. (Revised Feb. 2015)

<b>Basin- Lake or Reservoir</b>	<b>Dead Storage</b>	<b>Inactive Storage</b>	<b>Active Storage</b>	<b>Surcharge Storage</b>	<b>NRCS Capacity</b>	<b>NRCS Capacity Includes</b>
<b><u>Panhandle Region</u></b>						
Hungry Horse	39.73	---	3451.00	---	3451.0	Active
Flathead Lake	Unknown	---	1791.00	---	1791.0	Active
Noxon	Unknown	---	335.00	---	335.0	Active
Lake Pend Oreille	406.20	112.40	1042.70	---	1561.3	Dead + Inactive + Active
Lake Coeur d'Alene	Unknown	13.50	225.00	---	238.5	Inactive + Active
Priest Lake	20.00	28.00	71.30	---	119.3	Dead + Inactive + Active
<b><u>Clearwater Basin</u></b>						
Dworshak	Unknown	1452.00	2016.00	---	3468.0	Inactive + Active
<b><u>West Central Basins</u></b>						
Anderson Ranch	24.90	37.00	413.10	---	450.1	Inactive + Active
Arrowrock	Unknown	---	272.20	---	272.2	Active
Lucky Peak	Unknown	28.80	264.40	13.80	293.2	Inactive + Active
Lake Lowell	7.90	5.80	159.40	---	165.2	Inactive + Active
Deadwood	Unknown	---	161.90	---	161.9	Active
Cascade	Unknown	46.70	646.50	---	693.2	Inactive + Active
Mann Creek	1.61	0.24	11.10	---	11.1	Active
<b><u>Wood and Lost Basins</u></b>						
Mackay	0.13	---	44.37	---	44.4	Active
Little Wood	Unknown	---	30.00	---	30.0	Active
Magic	Unknown	---	191.50	---	191.5	Active
<b><u>Upper Snake Basin</u></b>						
Jackson Lake	Unknown	---	847.00	---	847.0	Active
Palisades	44.10	155.50	1200.00	---	1400.0	Dead + Inactive + Active
Henrys Lake	Unknown	---	90.40	---	90.4	Active
Island Park	0.40	---	127.30	7.90	135.2	Active + Surcharge
Grassy Lake	Unknown	---	15.18	---	15.2	Active
Ririe	4.00	6.00	80.54	10.00	80.5	Active
Blackfoot	0.00	---	333.50	3.50	333.50	Active (rev. 2/1/2015)
American Falls	Unknown	---	1672.60	---	1672.6	Active
<b><u>Southside Snake Basins</u></b>						
Oakley	0.00	---	75.60	---	75.6	Active
Salmon Falls	48.00	5.00	182.65	---	182.6	Active
Wild Horse	Unknown	---	71.50	---	71.5	Active
Lake Owyhee	406.83	---	715.00	---	715.0	Active
Brownlee	0.45	444.70	975.30	---	1420.0	Inactive + Active
<b><u>Bear River Basin</u></b>						
Bear Lake	5000.00	119.00	1302.00	---	1302.0	Active:
Capacity does not include 119 KAF that can be used, historic values below this level are rounded to zero						
Montpelier	0.21	---	3.84	---	4.0	Dead + Active