Typical Snow Courses
are located in small forest openings, meadows, or along roads or trails
where snow falls naturally and accumulates during the winter

107 snow courses in Idaho

Typical snow course has 5 measurement points spaced 10 to 50 feet apart

Located in low, mid or high elevation areas

Measured monthly January – May
Some are also measured in mid-month

Snow depth and snow water equivalent are recorded at each sample point and then averaged for one value
Mountain Snowpack as of March 1, 2009

Legend

percent

- > 180
- 150 - 180
- 130 - 149
- 110 - 129
- 90 - 109
- 70 - 89
- 50 - 69
- 25 - 49
- < 25

Prepared by
USDA, Natural Resources Conservation Service
National Water and Climate Center
Portland, Oregon
http://www.wcc.nrcs.usda.gov
Idaho SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Mar 11, 2009

- unavailable *
- <50%
- 50 - 60%
- 60 - 70%
- 70 - 80%
- 80 - 90%
- 90 - 100%
- 100 - 110%
- 110 - 120%
- 120 - 130%
- 130 - 140%
- >= 140%

* Data unavailable at time of posting or measurement is not representative at this time of year

Provisional Data Subject to Revision

The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).
NRCS

March 1, 2009
50% Exceedance
Summer Streamflow Forecast
Idaho

Map based on provisional data
<table>
<thead>
<tr>
<th>Region or Basin</th>
<th>Water Year to Date Precipitation (Oct 1 - March 11) as % of Average</th>
<th>February Precipitation as % of Average</th>
<th>March 1-11 Precipitation as % of Monthly Total</th>
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<td>Percent of Average February 28, 2009</td>
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### 2009 Idaho Surface Water Supply Index (SWSI) For February 2009

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<tr>
<th>BASIN or REGION</th>
<th>February SWSI Value</th>
<th>February SWSI Value Based on 70% Exceedance Forecast</th>
<th>Agricultural Surface Water Supply Shortage May Occur When SWSI is Less Than</th>
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<td>PAYETTE</td>
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<td>-1.7</td>
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**SWSI Scale, Percent Chance of Exceedance, and Interpretation**

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<td></td>
<td>99%</td>
<td>87%</td>
<td>75%</td>
<td>63%</td>
<td>50%</td>
<td>37%</td>
<td>25%</td>
<td>13%</td>
<td>1%</td>
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<table>
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<tr>
<th>Much</th>
<th>Below</th>
<th>Near Normal</th>
<th>Above</th>
<th>Much</th>
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<tr>
<td>Below</td>
<td>Normal</td>
<td>Water Supply</td>
<td>Normal</td>
<td>Above</td>
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Panhandle Region 2009 Snowpack Graph (13 Sites)

As of Tuesday, March 10, 2009:
- SWE Percent of Average: 80
- SWE Percent of Seasonal Peak: 72
- Percent Needed to Reach Seasonal SWE Peak: 297
Similar snow to 2007
Dworshak Inflow was 68%
March 1, 2009 Forecast for 80%

As of Tuesday, March 10, 2009:
SWE Percent of Average: 86
SWE Percent of Seasonal Peak: 78
Percent Needed to Reach Seasonal SWE Peak: 220
Deadwood Summit SNOTEL El. 6860
Snow Water Equivalent

- Average SWE
- 2007 SWE
- 2008 SWE
- 2009 SWE

2007 Runoff 47%
2009 Forecast 71%
March 1 Boise Basin Surface Water Supply Index (SWSI)
Boise River near Boise & Anderson, Arrowrock, Lucky Peak

Adequate Irrigation Water Supply Above 1,500 KAF

2007 Runoff 47%
2009 Forecast 71%
As of Tuesday, March 10, 2009:
SWE Percent of Average: 80
SWE Percent of Seasonal Peak: 74
Percent Needed to Reach Seasonal SWE Peak: 313

As of Tuesday, September 30, 2008:
SWE Percent of Average: Can't calculate pct of average
SWE Percent of Seasonal Peak: 0
Percent Needed to Reach Seasonal SWE Peak: At Past Average Peak
Two Ocean Plateau SNOTEL El. 9240

Snow Water Equivalent

- Average SWE
- 2007 SWE
- 2008 SWE
- 2009 SWE

Inches of Water Content

Oct-1 to Jul-13
March 1 Surface Water Supply Index (SWSI)
Snake River near Heise & Jackson and Palisades Reservoirs

- Adequate Irrigation Water Supply Above 4,400 KAF
- 2007 Runoff 54%
- 2008 Runoff 102%
- 2009 Forecast 90%
- Minimum Forecast 74%

Streamflow Apr-Sep
Reservoir 28-Feb

Years


10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1000 Acre-Feet

2009-90% 2009-70% 2009-50% 2009-30% 2009-10%
2009 Snake River near Heise: Apr - Jul Volume
NRCS Monthly / mid-Monthly Forecasts are Squares

Updated March 6, 2009

2008 Runoff 102% of Normal, 3650 KAF

2009 -- 67% of average runoff needed for marginally adequate surface irrigation supply -- based on Feb 28 reservoir storage of 1650 KAF

SNOTEL Sites used: Base Camp, Blind Bull, Cottonwood Ck, Lewis Lake, Snake River Sta, Slug Creek, Thumb Divide and Willow Ck
Oakley Basin 2009 Snowpack Graph (3 Sites)

As of Tuesday, March 10, 2009:
- SWE Percent of Average: 79%
- SWE Percent of Seasonal Peak: 72%
- Percent Needed to Reach Seasonal SWE Peak: 305%
March 1 Bear River Surface Water Supply Index (SWSI)
Bear River at Stewart Dam & Bear Lake

Adequate Surface Irrigation Water Supply Above 500 KAF
Idaho Weather, Climate and Water Supply Outlook

IDWR Briefing, Mar 12th 2009
Jay Breidenbach, NOAA National Weather Service

2009 Water Year Precipitation Review through February
Forecast for next 10 days
Three Month Climate Outlook
Water Supply Numbers and Drought Summary
Idaho Spring Flood Outlook
Seasonal Precipitation
October 2008 - February 2009

Created Date: Fri, Mar 06 2009
Produced by the Northwest River Forecast Center

Legend:
- < 50 %
- 50 - 70 %
- 70 - 90 %
- 90 - 110 %
- 110 - 130 %
- > 130 %
- No Data

Areas shown include Seattle, Spokane, Portland, Medford.
River Response to Warm Temperatures and Rain
Sunday Mar 15th
Tuesday Mar 17th
Thursday Mar 19th
7 Day Cumulative Precipitation Forecast
Temperature and Precipitation Outlook from 8 to 14 days
Drought Situation

U.S. Drought Monitor

March 10, 2009
Valid 8 a.m. EDT

Intensity:
- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:
- Delineates dominant impacts
- A = Agricultural (crops, pastures, grasslands)
- H = Hydrological (water)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://drought.unl.edu/dm

Released Thursday, March 12, 2009
Authors: Michael Brewer/Liz Love-Brotak, NOAA/NESDIS/NCDC
Drought Outlook

U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period
Valid March 5, 2009 - May 2009
Released March 5, 2009

KEY:
- Red: Drought to persist or intensify
- Orange: Drought ongoing, some improvement
- Green: Drought likely to improve, impacts ease
- Yellow: Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events.

"Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity).

For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.
Summary

- February very dry.
- March total precipitation expected to be near normal.
- Water Supply and Peak Stream Flow Forecasts have declined since last month. -Further Decline Unlikely.
- Idaho Spring Flood Threat – Below Average
- Lingering drought in the southern portion of state – may persist this summer.
Current Information on Web

www.weather.gov/boise

www.nwrfc.noaa.gov/westernwater
Managing Water in the West

Water Supply Outlook
March 12, 2009

Michael Beus
Upper Snake River Field Office

U.S. Department of the Interior
Bureau of Reclamation
<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev (ft)</th>
<th>Snow Water Equivalent Current (in)</th>
<th>Average (in)</th>
<th>Pct of Avg</th>
<th>Year-to-Date Precipitation Current (in)</th>
<th>Average (in)</th>
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Wyoming SNOTEL Sites

- Standard Sensors
- Enhanced Sensors
Wyoming SNOTEL Sites

- Standard Sensors
- Enhanced Sensors

Wyoming SNOTEL Sites Map

- Cody
- Riverton
- Casper
- Rawlins
- Cheyenne
Spring Creek Divide SnoTel

![Graph](image)

- **SWE (inches)**
- **Months**: 1-Oct to 1-Jul
- **Years**: 2007, 2008, 30 yr avg, 2009

- **Legend**:
  - Cyan: 30 yr avg
  - Yellow: 2007
  - Pink: 2008
  - Black: 2009
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<th>FORECAST</th>
<th>PERIOD</th>
<th>AVE</th>
<th>NORM</th>
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<th>%</th>
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</tbody>
</table>

*** Coordinated with Corp of Engineers
Questions?
59% of Boise System Capacity

83,000 / 154,000 (est.)

~ 64% of Payette System Capacity
Payette River Runoff at Horseshoe Bend
March 1 – July 31

Acre-Feet

- 30 YR AVG: 1,800,000
- 2004: 1,388,000
- 2005: 1,188,000
- 2007: 1,123,000
- 3/1/09 Forecast: 1,282,000

71% of Avg.
62% of Avg.
Cascade Dam Precipitation (inches)

- Feb. 1 - 28, 2009: 1.18 inches
- Mar. 1 - 8, 2009: 1.43 inches
Deadwood Reservoir Inflows
March 1 – July 31

Acre-Feet

30 YR AVG: 141,000
1990: 91,000 (65% of Avg.)
2005: 99,000
2007: 100,000
3/1/09 Forecast: 97,000 (69% of Avg.)
Deadwood Reservoir Elevation
(full pool = 5334 ft.)

Oct 1  Nov 1  Dec 1  Jan 1  Feb 1  Mar 1  Apr 1  May 1  Jun 1  Jul 1  Aug 1  Sep 1  Oct 1

feet
5,334  5,332  5,330  5,328  5,326  5,322  5,318  5,316  5,314  5,312  5,310  5,308  5,306  5,304  5,302  5,300  5,298  5,296  5,294  5,292

Cascade Reservoir Inflows
March 1 – July 31

Acre-Feet

<table>
<thead>
<tr>
<th>Year</th>
<th>Inflows (Acre-Feet)</th>
<th>Percentage of Avg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 YR AVG</td>
<td>569,000</td>
<td></td>
</tr>
<tr>
<td>2004</td>
<td>457,000</td>
<td>65%</td>
</tr>
<tr>
<td>2005</td>
<td>418,000</td>
<td></td>
</tr>
<tr>
<td>2007</td>
<td>371,000</td>
<td>74%</td>
</tr>
<tr>
<td>3/1/09 Forecast</td>
<td>422,000</td>
<td></td>
</tr>
</tbody>
</table>
Cascade Reservoir Storage
(capacity = 646,460 ac-ft)
Anderson Ranch Reservoir Storage
(capacity = 413,000 ac-ft)
Boise Basin Runoff
March 1 – July 31

Acre-Feet

<table>
<thead>
<tr>
<th>Year</th>
<th>Runoff (Acre-Feet)</th>
<th>Percentage of Avg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-yr Avg.</td>
<td>1,603,000</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>1,266,000</td>
<td>79%</td>
</tr>
<tr>
<td>2004</td>
<td>1,081,000</td>
<td>58%</td>
</tr>
<tr>
<td>2005</td>
<td>933,000</td>
<td>69%</td>
</tr>
<tr>
<td>3/1/2009 Forecast</td>
<td>1,100,000</td>
<td></td>
</tr>
</tbody>
</table>
Boise Reservoir System Storage
(total capacity = 949,700 ac-ft)
Owyhee Basin Runoff
March 1 – June 30

<table>
<thead>
<tr>
<th>Year</th>
<th>Forecast</th>
<th>30-yr Avg.</th>
<th>2002</th>
<th>2004</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/1/09</td>
<td>454,000</td>
<td>591,000</td>
<td>382,000</td>
<td>423,000</td>
<td>451,000</td>
</tr>
</tbody>
</table>

77% of Avg.
Owyhee Reservoir Storage
(capacity = 715,000 ac-ft)
March 2009
Water Supply Committee
Mountain Snow Water Equivalent
As of Wednesday, March 9, 2009.
Idaho Snow Survey SNOTEL Data.

Percent of Average
SWE

- 0-24
- 25-50
- 51-70
- 71-90
- 91-110
- 111-125
- 126-150
- 151-175
- 176-200
- 201-500

87% NORTHERN PANHANDLE
87% SPOKANE
87% CLEARWATER BASIN
87% SALMON BASIN
78% WEISER BASIN
78% PAYETTE BASIN
79% BOISE BASIN
80% BIG LOST BASIN
80% LITTLE LOST BIRCH BASINS
91% MEDICINE LODGE, BEAVER, CAMAS BASINS
92% HENRYS FORK TETON BASINS
91% Owyhee Basin
97% BRUNEO BASIN
91% SNAKE BASIN ABOVE PALISADES
90% SALT LAKE BASIN
90% OAKLEY BASIN
80% OAKLEY BASIN
87% BEAR RIVER BASIN
Mountain Snow Water Equivalent
As of Monday, March 12, 2007.
Idaho Snow Survey SNOTEL Data

Percent of Average
- < 25
- 25 - 50
- 51 - 70
- 71 - 90
- 91 - 110
- 111 - 125
- 126 - 150
- 151 - 175
- 176 - 200
- > 200
BEAR LAKE END OF MONTH STORAGE
WATER YEARS 1922-2009

Lake predicted to rise to 5910.5
<table>
<thead>
<tr>
<th>% of Normal Runoff</th>
<th>Most Recent Comparable year</th>
<th>Heise Apr-Jul Runoff (1000 ac-ft)</th>
<th>Predicted Surface Water Supply Shortfall (ac-ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>2006</td>
<td>3,621</td>
<td>0</td>
</tr>
<tr>
<td>87+/-</td>
<td>1991</td>
<td>3,100</td>
<td>0</td>
</tr>
<tr>
<td>75</td>
<td>2005</td>
<td>2,643</td>
<td>0</td>
</tr>
<tr>
<td>65</td>
<td>2007</td>
<td>1,923</td>
<td>35,000</td>
</tr>
<tr>
<td>45</td>
<td>1977</td>
<td>1,177</td>
<td>166,000</td>
</tr>
</tbody>
</table>

**2009 Projection:**

ESPAGROUND WATER CURTAILMENT DUE TO RUNOFF SHORTFALL