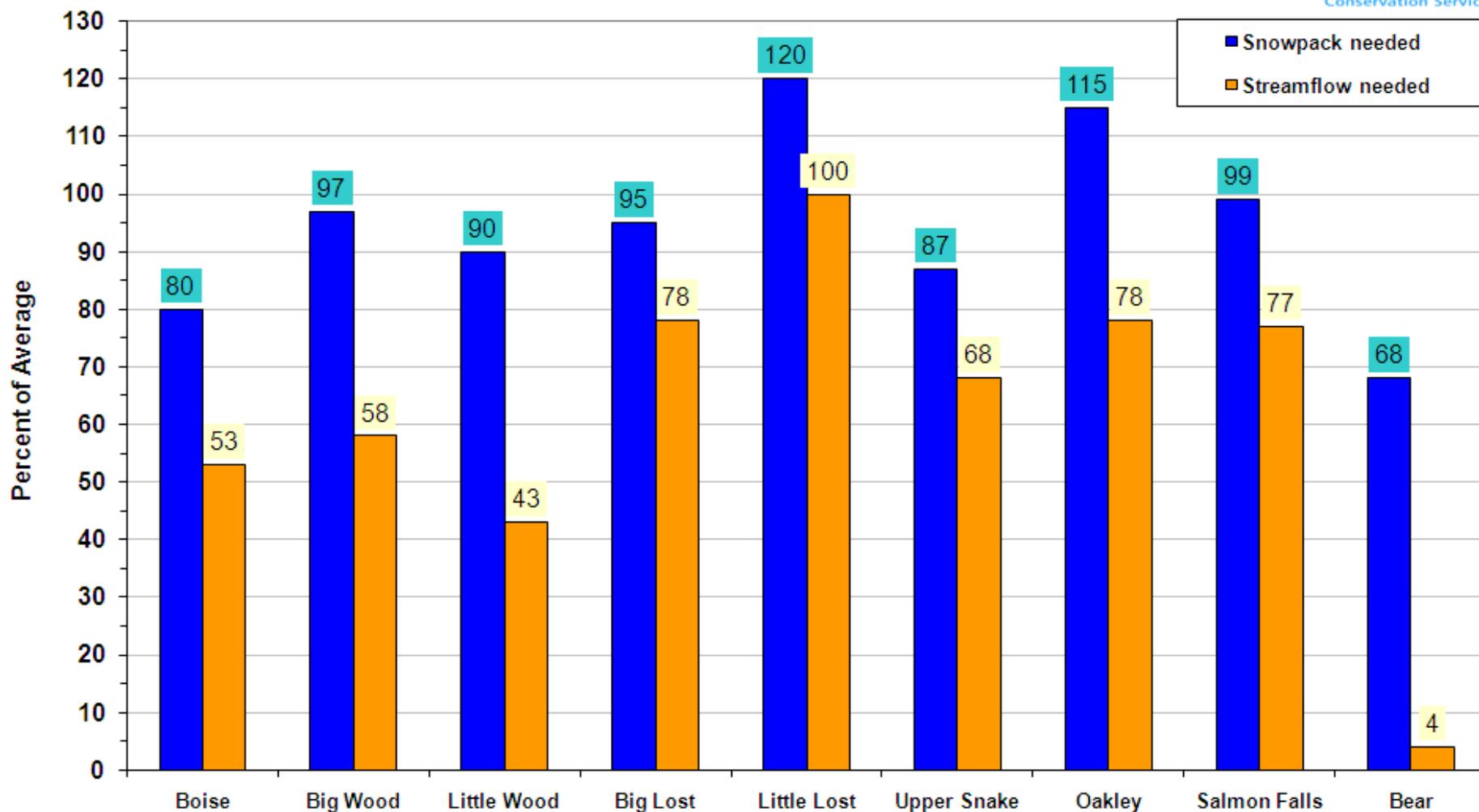


# April 1, 2011 Snow Levels Needed to Produce Adequate Surface Water Irrigation Supplies Based on Historic Data that had a Good Snowpack but Low Streamflow



**USDA NRCS Idaho Snow Survey, November 1, 2010**

**2011** Snowpack and Streamflow Needed for Adequate Agricultural Irrigation Supply for **2011**

**Boise Basin**

Basin / Reservoir	Reservoir Storage Sep 30 2010 (KAF)	Projected Reservoir Storage (KAF / Date)	Streamflow Needed For Adequate Irrigation Water Supply KAF (% of avg) Period	Snowpack Percent of Average that has Always Produced the Volume Needed in the Previous Column. (% of Average and Date)	Example Years Illustrating: April 1 Snow and Apr-Sep Streamflow as % of Average
Boise 3 Reservoirs	<b>542</b>	<b>700</b> Mar 31 2011	> 800 KAF (52% of avg) Apr-Sep  Adequate Water Supply 1,500 KAF	→  > 80 % of avg on Apr 1	1961 Snow 82% -- Stream 55% 1966 Snow 81% -- Stream 59% 1990 Snow 61% -- Stream 55% 1998 Snow 82% -- Stream 111% 2010 Snow 67% -- Stream 80%

April 1 snowpack of 82% of average has produced streamflow as low as 55% of average

**Big Wood Basin**

Big Wood Magic	<b>65</b>	<b>100</b> Mar 31 2011	> 175 KAF (57% of avg) Apr-Sep  Adequate Water Supply 275 KAF	→  >96% of avg on Apr 1	1989 Snow 104% -- Stream 65% 2003 Snow 95% -- Stream 46% 1998 Snow 84% -- Stream 139 2008 Snow 96% -- Stream 57% 2010 Snow 66% -- Stream 59%
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April 1 snowpack of 95% of average has produced streamflow as low as 46% of average

**Little Wood Basin**

Little Wood	<b>7.8</b>	<b>20</b> Mar 31 2011	>40 KAF (43% of avg) Apr-Sep  Adequate Water Supply 55-60 KAF	→  >77% of avg on Apr 1	2002 Snow 77% -- Stream 37% 2008 Snow 95% -- Stream 56% 2009 Snow 90% -- Stream 78% 2010 Snow 69% -- Stream 63%
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April 1 snowpack of 77% has produced streamflow as low as 37% of average

**2011** Snowpack and Streamflow Needed for Adequate Agricultural Irrigation Supply for **2011**

Basin / Reservoir	Reservoir Storage Sep 30 2010 (KAF)	Projected Reservoir Storage (KAF / Date)	Streamflow Needed For Adequate Irrigation Water Supply KAF (% of avg) Period	Snowpack Percent of Average that has Always Produced the Volume Needed in the Previous Column. (% of Average and Date)	Example Years Illustrating: April 1 Snow and Apr-Sep Streamflow as % of Average
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**Big Lost Basin**

Big Lost Mackay	21.5	41 Mar 31 2011	>139 KAF (81% of avg) Apr-Sep  Adequate Water Supply 180 KAF	>95% of avg on Apr 1 →	1966 Snow 90% -- Stream 54% 1970 Snow 105% -- Stream 117% 2008 Snow 92% -- Stream 61% 2010 Snow 63% -- Stream 78%
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April 1 snowpack of 90% has produced streamflow as low as 54% of average.

**Little Lost Basin**

Little Lost			>39 KAF (100% of avg) Apr-Sep  Adequate Water Supply 39 KAF	>120% of avg on Apr 1 →	1964 Snow 119% -- Stream 99% 2006 Snow 121% -- Stream 87% 2009 Snow 101% -- Stream 104% 2010 Snow 62% -- Stream 100%
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April 1 snowpack of 121% has produced streamflow as low as 87% of average.

**Upper Snake Basin**

Snake abv Heise Palis & Jack Resv.	1350	1600 Mar 31 2011	>2,900 KAF (70% of avg) Apr-Sep  Adequate Water Supply 4,500 KAF	>87% of avg on Apr 1 →	1979 Snow 103% -- Stream 82% 2002 Snow 79% -- Stream 67% 2003 Snow 92% -- Stream 70% 2010 Snow 55% -- Stream 75%
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**2011** Snowpack and Streamflow Needed for Adequate Agricultural Irrigation Supply for **2011**

Basin / Reservoir	Reservoir Storage Sep 30 2010 (KAF)	Projected Reservoir Storage (KAF / Date)	Streamflow Needed For Adequate Irrigation Water Supply KAF (% of avg) Period	Snowpack Percent of Average that has Always Produced the Volume Needed in the Previous Column. (% of Average and Date)	Example Years Illustrating: April 1 Snow and Apr-Sep Streamflow as % of Average
April 1 snowpack of 103% has produced streamflow as low as 82% of average.					
<b>Oakley Basin</b>					
Goose Oakley	10.4	21 Mar 31 2011	<p>&gt;29 KAF (91% of avg) Apr-Sep</p> <p>Adequate Water Supply 50 KAF</p>	<p>&gt;115% of avg on Apr 1 →</p>	<p>1986 Snow 114% -- Stream 138%</p> <p>1962 Snow 115% -- Stream 78%</p> <p>1989 Snow 115% -- Stream 68%</p> <p>2010 Snow 79% -- Stream 54%</p>
<p>April 1 snowpack of 115% has produced streamflow as low as 68% of average.</p> <p>April 1 snowpack &gt; 118% of average has always produced flow &gt; 111% of average.</p>					
<b>Salmon Falls Basin</b>					
Salmon Falls	28.6	45 Mar 31 2011	<p>&gt;65 KAF (77% of avg) Apr-Sep</p> <p>Adequate Water Supply 110 KAF</p>	<p>&gt;100% of avg on Apr 1 →</p>	<p>2000 Snow 84% -- Stream 49%</p> <p>2008 Snow 99% -- Stream 66%</p> <p>2010 Snow 68% -- Stream 80%</p>
<p>April 1 snowpack of 99% has produced streamflow as low as 66% of average.</p> <p>April 1 snowpack &gt; 122% of average has always produced flow &gt; 114% of average.</p>					
<b>Bear River Basin</b>					
Bear, Bear Lake	510	540 Mar 31 2011	<p>&gt;10 KAF (4% of avg) Apr-Sep</p> <p>Adequate Water Supply 500 KAF</p>	<p>→</p> <p>&gt;68% of avg on Apr 1</p>	<p>2003 Snow 68% -- Stream 4%</p> <p>1989 Snow 103% -- Stream 20%</p> <p>1983 Snow 102% -- Stream 239%</p> <p>2010 Snow 54% -- Stream 44%</p>
April 1 snowpack of 68% has produced streamflow as low as 4% of average					