Overview

- Idaho Power’s cloud seeding projects
- Operations overview
- Suspension
Current Program
Payette, Boise, Wood & Upper Snake

- **Payette**
  - 17 Remote Gen’s
  - Aircraft
  - Radiometer
  - Weather Balloon
  - Weather Tower
  - 9 hi-res precip gauges

- **Boise and Wood**
  - 13 Remote Gen’s
  - Aircraft
  - Radiometer
  - Weather Balloon
  - 2 hi-res precip gauges

- **Upper Snake**
  - 25 Remote Gen’s
  - 25 Manual Gen’s
  - 2 Radiometers
  - 2 Weather Balloons
  - Weather Tower
  - 2 hi-res precip gauge
Aircraft Hours by Month

Total Flight Hours

- 2016 Total
- 2017 Total

Oct-Nov Dec Jan Feb Mar Apr
Ground Ops by Month

Ground Generator Run Hours

- 2016 Total
- 2017 Total

Total Run Hours All Basins

Oct-Nov Dec Jan Feb Mar Apr
Agl by Month

Total Agl

- 2016 Total Agl (kg)
- 2017 Total Agl (kg)
- 2016 GGEN Total Agl (kg)
- 2017 GGEN Total Agl (kg)
- 2016 Aircraft Total Agl (kg)
- 2017 Aircraft Total Agl (kg)

Monthly Total Agl (kg)

- Oct-Nov: 0
- Dec: 0
- Jan: 0
- Feb: 0
- Mar: 0
- Apr: 0
IPC Ground Operations 2017
Cloud Seeding Ground Generator Activities

Ground Generator Hours by Basin

- Payette
- Boise
- Wood
- Henrys Fork
- Willow
- Palisades
- Snake Head Waters
- Salt
- Grays-Hoback
- Green
Aircraft Operations 2017

Cloud Seeding Flight Activities

Flight Hours by Basin

Aircraft Burn in Place Flares by Basin
(150 grams AgI)

Aircraft Ejectable Flares by Basin
(20 grams AgI)
Suspension Criteria

• Snowpack

<table>
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<tr>
<th>Date</th>
<th>Cut-Off (% of April 1 Snowpack)</th>
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<tr>
<td>Jan 1</td>
<td>95%</td>
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<tr>
<td>Feb 1</td>
<td>110%</td>
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<td>Mar 1</td>
<td>125%</td>
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<td>Apr 1</td>
<td>140%</td>
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• SWSI (Boise, Heise, Henry’s Fork)
• Avalanche
• Flooding
• Severe Weather
• Special Circumstances
SWE vs. Suspension Criteria

Central Mountains

Current Snowpack and Suspension Criteria

- **Payette**
  - Current Water Year
  - Suspension
  - Median

- **Boise North**
  - Current Water Year
  - Suspension
  - Median

- **Boise South**
  - Current Water Year
  - Suspension
  - Median

- **Wood West**
  - Current Water Year
  - Suspension
  - Median

- **Wood East**
  - Current Water Year
  - Suspension
  - Median
<table>
<thead>
<tr>
<th>Date (local)</th>
<th>Location</th>
<th>Cause</th>
<th>Duration</th>
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<tbody>
<tr>
<td>12/15/2016</td>
<td>WCM</td>
<td>Extreme Avalanche Forecast</td>
<td>24+ hrs</td>
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<td>2/4/2017</td>
<td>Wyoming/Salt Ranges</td>
<td>Total SWE</td>
<td>Rest of Season</td>
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<td>2/7/2017</td>
<td>East Wood</td>
<td>Total SWE</td>
<td>Rest of Season</td>
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<tr>
<td>2/8/2017</td>
<td>Ashton, ID and South</td>
<td>Total SWE</td>
<td>Rest of Season</td>
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<tr>
<td>2/8/2017</td>
<td>Wood Basin</td>
<td>Total SWE</td>
<td>Rest of Season</td>
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<tr>
<td>2/9/2017</td>
<td>All areas</td>
<td>Extreme Avalanche/Flooding</td>
<td>24+ hrs</td>
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<tr>
<td>2/10/2017</td>
<td>Southern Boise</td>
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<td>Rest of Season</td>
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<td>3/3/2017</td>
<td>Henrys Fork</td>
<td>SWSI</td>
<td>Likely Rest of Season</td>
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<tr>
<td>3/3/2017</td>
<td>Entire Boise</td>
<td>SWSI</td>
<td>Likely Rest of Season</td>
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<tr>
<td>3/7/2017</td>
<td>Payette Basin</td>
<td>Total SWE</td>
<td>Likely Rest of Season</td>
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Current Cloud Seeding Activities
Questions?