# HCC Operations Update

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# January Flood Risk Management Outlook

**Summary of Columbia River Basin Flood Risk Management Requirements, 1-Jan** **WY 2021**

**Issue Date: 08-Jan-2021**

**1-Jan Water Supply Forecast**

| Project >> | MCDB | ARDB | LIB | DCDB | HGH | GCL | BRN | DWR | TDA |
|---|---|---|---|---|---|---|---|---|---|
| Apr-Jul, kaf | - | - | - | - | - | - | 4202 | 2843 | - |
| Apr-Jul %-**Normal (2)** | - | - | - | - | - | - | 77% | 118% | - |
| Apr-Jul **Change**, kaf **(1)** | - | - | - | - | - | - | - | - | - |
| Apr-Aug, kaf | 11920 | 23266 | 6215 | 2170 | - | 55490 | - | - | 82416 |
| Apr-Aug %-**Normal (2)** | 109% | 106% | 106% | 108% | - | 98% | - | - | 94% |
| Apr-Aug **Change**, kaf **(1)** | - | - | - | - | - | - | - | - | - |
| May-Sep, kaf | - | - | - | - | 1820 | - | - | - | - |
| May-Sep %-**Normal (2)** | - | - | - | - | 108% | - | - | - | - |
| May-Sep **Change**, kaf **(1)** | - | - | - | - | - | - | - | - | - |

**System Draft Requirements**

| Project >> | MCDB | ARDB | LIB VarQ | DCDB | HGH VarQ | GCL | BRN | DWR Sys | DWR Loc |
|---|---|---|---|---|---|---|---|---|---|
| Jan. 31, kaf | 1662 | 1703 | 2105 | 857 | 370 | 0 | 0 | 1045 | 1057 |
| Feb. 28/29, kaf | 2810 | 2603 | 2330 | 1215 | 478 | 0 | 287 | 1268 | 1272 |
| Mar. 15, kaf | - | - | - | 1270 | - | - | - | - | - |
| Mar. 31, kaf | 4080 | 3600 | 2553 | 1270 | 598 | 537 | 269 | 1518 | 1271 |
| Apr. 15, kaf | - | - | - | - | 655 | 1414 | 226 | 1729 | 1171 |
| Apr. 30, kaf | 4080 | 3600 | 2572 | 1270 | 714 | 2278 | 210 | 1387 | - |

**System Elevation Requirements**

| Project >> | MCDB | ARDB | LIB VarQ | DCDB | HGH VarQ | GCL | BRN | DWR Sys | DWR Loc |
|---|---|---|---|---|---|---|---|---|---|
| Jan. 31, ft | - | 1430.5 | 2408.1 | 1839.3 | 3543.9 | 1290.0 | 2077.0 | 1533.8 | 1533.0 |
| Feb. 28/29, ft | - | 1422.9 | 2401.5 | 1812.5 | 3539.0 | 1290.0 | 2054.8 | 1517.1 | 1516.8 |
| Mar. 15, ft | - | - | - | 1807.7 | - | - | - | - | - |
| Mar. 31, ft | - | 1414.1 | 2394.6 | 1807.7 | 3533.4 | 1283.3 | 2056.4 | 1496.1 | 1516.8 |
| Apr. 15, ft | - | - | - | - | 3530.6 | 1271.9 | 2060.0 | 1475.6 | 1524.4 |
| Apr. 30, ft | - | 1414.1 | 2394.0 | 1807.7 | 3527.8 | 1259.9 | 2061.3 | 1507.5 | - |

# 2021 IPC Flood Control Outlook

# Cloud Seeding Overview

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# 2021 Current Program

- **Payette**
  - 17 remote AgI generators
  - 1 liquid propane generator (exp)
  - Aircraft
  - Radiometer
  - Weather balloon
  - Weather tower
  - 9 hi-res precip. gauges
- **Boise and Wood**
  - 15 remote generators
  - Aircraft
  - Radiometer
  - 2 hi-res precip. gauges
- **Upper Snake**
  - 25 remote generators
  - 25 manual generators
  - Aircraft
  - 2 radiometers
  - 2 weather balloons
  - Weather tower
  - 2 hi-res precip. gauges
- **All**
  - Weather model
  - Cloud Seeding Module

# Ground Generator Usage

| Generators (Hours) | Upper Snake | Wood River | Boise Basin | Payette |
|---|---|---|---|---|
| November | 231 | 118 | 151 | 95 |
| December | 128 | 91 | 160 | 93 |
| January | 224 | 55 | 82 | 58 |
| February | | | | |
| March | | | | |
| Total | 583 | 264 | 392 | 245 |

# Aircraft Usage

| | Upper Snake | | | Wood River | | | Boise Basin | | | Payette | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aircraft | Hours | BIP | EJ | Hours | BIP | EJ | Hours | BIP | EJ | Hours | BIP | EJ |
| November | 8 | 49 | 36 | 5 | 34 | 101 | 15 | 126 | 317 | 14 | 122 | 338 |
| December | 15 | 110 | 390 | 8 | 23 | 226 | 16 | 62 | 517 | 14 | 109 | 255 |
| January | 6 | 47 | 0 | 6 | 14 | 220 | 13 | 74 | 388 | 11 | 47 | 229 |
| February | | | | | | | | | | | | |
| March | | | | | | | | | | | | |
| Total | 30 | 206 | 426 | 18 | 72 | 546 | 44 | 262 | 1222 | 38 | 278 | 822 |

# Questions?