

## Dworshak Reservoir Operations Spring and Summer 2015

## U.S. ARMY CORPS OF ENGINEERS

## **BUILDING STRONG®**

**What's Up With the Water?** Each spring and summer, people visiting Dworshak Dam near Orofino, Idaho, ask about the fluctuating water level in the reservoir on the upstream side of the dam. Managing Dworshak's reservoir is a complex task involving many federal, state and local entities. Knowing what goes into making water-management decisions can help people understand the U.S. Army Corps of Engineers (Corps) operational changes and anticipate monthly reservoir levels.

**One Reservoir...Many Uses** Dworshak Dam creates a large multi-purpose reservoir with competing interests:

Flood Risk Management – reduce flood risk from Orofino, Idaho, to Portland, Oregon Recreation – a Corps-managed byproduct of a flood risk management reservoir Water Supply – a Corps-managed byproduct of a flood risk management reservoir Hydropower – the dam has three turbines to convert falling water into electricity Environmental Operations – reduce impacts of man-made activities on nature

**How the Corps Manages the Reservoir** The Walla Walla District operates the Dworshak reservoir considering the following:

**Snow Pack and Weather**. The region's snow pack and weather impact flood risk. Current snowpack for the Clearwater sub-basin is 64 percent of normal. Because of the unusually low snow pack combined with various weather factors such as little rain anticipated for the spring season and forecasted warmer temperatures, we plan fill the reservoir several weeks earlier than usual this year to ensure adequate water supply to meet flow-augmentation requirements in the Snake River and offer optimal reservoir recreation conditions for as long as possible.

**Environmental Operations**. The Columbia River System Biological Opinion mandates the National Oceanic and Atmospheric Administration (NOAA) and the Corps meet several objectives to enhance ESA-listed fish survival:

- Maintain minimum water flows for resident fish and salmon
- Keep total dissolved gasses (TDG) below the Idaho State maximum threshold. When water spills over the dam, gasses absorb into the water. High TDG levels can be unhealthy for fish

• Release reservoir water to maintain lower Snake River water temperatures and help speed juvenile fish downriver to the ocean

**What to Expect This Year** Given 2015's snowpack, weather and continuing environmental operation requirements, visitors can anticipate seeing the following water-management operations at the Dworshak reservoir:

**April 1** – Reservoir elevation was 1,586.3 – about 14 feet below full-pool elevation.

**April** – Water supply forecast for April to July runoff is **70 percent of normal.** Currently managing discharges to conserve water while balancing flood risk, meet environmental operational requirements and refill the reservoir; anticipate reservoir elevation of 1,590 feet by April 30.

May – Manage refill while balancing flood risk; seek to fill reservoir by May 31, or earlier if flood risk allows; full pool elevation is 1,600 feet. During a normal year, the reservoir typically would not be filled until late-June. June through July 5 – Keep reservoir full for recreation, unless high temperatures require early releases to reduce river water temperatures, and provide flow augmentation for ESA-listed fish survival.

**July 6 through August** – Lower reservoir water level to reduce river water temperatures and provide flow augmentation as necessary.

**September** – Further reduce reservoir level to meet the Nez Perce water supply accord. **October - December** – Maintain minimum water flows until 2016 flood season begins in December.

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