

Introduction to Time line

The time line given below shows the approximate starting and end times of actions and events included in this year's Water Management Plan. It is designed to give a sense of when various actions occur. Dates are approximate and subject to change. Also note actions shown may not happen.

Project abbreviations.

LIB – Libby
HGH – Hungry Horse
LWG – Lower Granite
LGS – Little Goose
LMN – Lower Monumental
IHR – Ice Harbor
MCN – McNary
JDA – John Day
TDA – The Dalles
BON – Bonneville
TMT – Technical Management Team
DWR – Dworshak
PRD - Priest Rapids
ALF – Albeni Falls
GCL – Grand Coulee
RCC – Reservoir Control Center
RFC – River Forecast Center
USBR – US Bureau of Reclamation

| Project | Task Name | Start | Qtr 4, 2002 | | | | Qtr 1, 2003 | | | Qtr 2, 2003 | | | Qtr 3, 2003 | | | Qtr 4, | |
|---------|--|-------------|-------------|-----|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|--------|--|
| | | | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | |
| LIB | Operate to Minimum Flows / Ramp Rates | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| HGH | Operate to Minimum Flows / Ramp Rates | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| LWG | Operate to 1% peak Efficiency | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| LMN | Operate to 1% peak Efficiency | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| LGS | Operate to 1% peak Efficiency | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| IHR | Operate to 1% peak Efficiency | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| MCN | Operate to 1% peak Efficiency | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| JDA | Operate to 1% peak Efficiency | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| TDA | Operate to 1% peak Efficiency | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| BON | Operate to 1% peak Efficiency | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| TMT | Assess Potential of Providing Flow for Chinook Below BON | Tue 10/1/02 | ◆ 10/1 | | | | | | | | | | | | | | |
| TMT | Assess Potential of Providing Flow for Chum Below BON | Tue 10/1/02 | ◆ 10/1 | | | | | | | | | | | | | | |
| TMT | Preliminary discussions of flood control / refill | Tue 10/1/02 | ◆ 10/1 | | | | | | | | | | | | | | |
| TMT | Albeni Falls fall/winter Draw down Discussions | Tue 10/1/02 | ◆ 10/1 | | | | | | | | | | | | | | |
| | Hanford Reach / Vernita Bar flows set (non-BiOp) | Tue 10/1/02 | ◆ 10/1 | | | | | | | | | | | | | | |
| | Calculate Integrated Rule Curves at LIB and HGH | Tue 10/1/02 | ◆ 10/1 | | | | | | | | | | | | | | |
| TMT | Develop fall / winter update | Tue 10/1/02 | ◆ 10/1 | | | | | | | | | | | | | | |
| DWR | Operate at minimum outflow | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| PRD | Vernita Bar Protection Flows (non-BiOP) | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| GCL | Kokanne Forebay Elevation 1283-1285 ft. (non- BiOP) | Tue 10/1/02 | [Bar] | | | | | | | | | | | | | | |
| JDA | Waterfowl hunting enhancement (non-BiOP) | Mon 10/7/02 | [Bar] | | | | | | | | | | | | | | |
| MCN | Waterfowl hunting enhancement (non-BiOp) | Mon 10/7/02 | [Bar] | | | | | | | | | | | | | | |
| LIB | Storage May be used to Support Chum Flows | Fri 11/1/02 | [Bar] | | | | | | | | | | | | | | |
| HGH | Storage May be used to Support Chum Flows | Fri 11/1/02 | [Bar] | | | | | | | | | | | | | | |
| ALF | Storage May be used to Support Chum Flows | Fri 11/1/02 | [Bar] | | | | | | | | | | | | | | |
| GCL | Storage May be used to Support Chum Flows | Fri 11/1/02 | [Bar] | | | | | | | | | | | | | | |
| DWR | Storage May be used to Support Chum Flows | Fri 11/1/02 | [Bar] | | | | | | | | | | | | | | |
| BON | Provide Chum Flows | Fri 11/1/02 | [Bar] | | | | | | | | | | | | | | |
| TMT | Determine winter / spring chum flow levels | Fri 11/1/02 | ◆ 11/1 | | | | | | | | | | | | | | |
| RCC | Determine Flood Control / Refill Strategies | Sun 12/1/02 | ◆ 12/1 | | | | | | | | | | | | | | |
| RCC | Determine any Flood control shifts | Sun 12/1/02 | ◆ 12/1 | | | | | | | | | | | | | | |
| LIB | Operate to Flood Control Curve | Sun 12/1/02 | [Bar] | | | | | | | | | | | | | | |
| DWR | Operate to Flood Control Curve | Sun 12/1/02 | [Bar] | | | | | | | | | | | | | | |
| ALB | Operate to Flood Control Curve | Sun 12/1/02 | [Bar] | | | | | | | | | | | | | | |

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|---------|---|--------------|-------------|-----|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|--------|--|
| | | | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | |
| GCL | Operate to Flood Control Curve | Sun 12/1/02 | | | | | | | | | | | | | | | |
| HGH | Operate to Flood Control Curve | Sun 12/1/02 | | | | | | | | | | | | | | | |
| ARDB | Whitefish Flows 45-55 Kcfs (non-BiOp) | Fri 12/20/02 | | | | | | | | | | | | | | | |
| LIB | Burbot Flows 6-8 Kcfs (non-BiOp) | Wed 1/1/03 | | | | | | | | | | | | | | | |
| ARDB | 1 MAF Flow Augmentation Filling | Wed 1/1/03 | | | | | | | | | | | | | | | |
| RFC | January Final Forecast | Wed 1/8/03 | | | | | | | | | | | | | | | |
| TMT | Preliminary Work on Spring/ Summer Update | Wed 1/15/03 | | | | | | | | | | | | | | | |
| TMT | Begin discussing spring Operations | Sat 2/1/03 | | | | | | | | | | | | | | | |
| TMT | Begin Spring transport Discussions | Sat 2/1/03 | | | | | | | | | | | | | | | |
| TMT | Hanford Reach Operations Discussions (non-BiOp) | Sat 2/1/03 | | | | | | | | | | | | | | | |
| RFC | February Final Forecast | Fri 2/7/03 | | | | | | | | | | | | | | | |
| USBR | Min Flows from HGH and at Columbia Falls | Sat 3/1/03 | | | | | | | | | | | | | | | |
| BON | Spring Creek Hatchery Release (non-BiOp) | Sat 3/1/03 | | | | | | | | | | | | | | | |
| RCC | Outlook for Meeting Flow objectives prepared | Sat 3/1/03 | | | | | | | | | | | | | | | |
| RFC | March Final Forecast | Fri 3/7/03 | | | | | | | | | | | | | | | |
| LWG | Operate to 1% peak Efficiency | Sat 3/15/03 | | | | | | | | | | | | | | | |
| LMN | Operate to 1% peak Efficiency | Sat 3/15/03 | | | | | | | | | | | | | | | |
| LGS | Operate to 1% peak Efficiency | Sat 3/15/03 | | | | | | | | | | | | | | | |
| IHR | Operate to 1% peak Efficiency | Sat 3/15/03 | | | | | | | | | | | | | | | |
| MCN | Operate to 1% peak Efficiency | Sat 3/15/03 | | | | | | | | | | | | | | | |
| JDA | Operate to 1% peak Efficiency | Sat 3/15/03 | | | | | | | | | | | | | | | |
| TDA | Operate to 1% peak Efficiency | Sat 3/15/03 | | | | | | | | | | | | | | | |
| BON | Operate to 1% peak Efficiency | Sat 3/15/03 | | | | | | | | | | | | | | | |
| JDA | Goose Nesting Enhancement (non-BiOp) | Sat 3/15/03 | | | | | | | | | | | | | | | |
| MCN | Protect Nesting Waterfowl (non-BiOp) | Sat 3/15/03 | | | | | | | | | | | | | | | |
| | Juvenile Fish collection | Tue 3/25/03 | | | | | | | | | | | | | | | |
| TMT | Determine start dates for spring spill | Tue 4/1/03 | | | | | | | | | | | | | | | |
| TMT | Determine Start dates for Mop Operations | Tue 4/1/03 | | | | | | | | | | | | | | | |
| RCC | Determine JDA elevations | Tue 4/1/03 | | | | | | | | | | | | | | | |
| LIB | Start Operational Plan | Tue 4/1/03 | | | | | | | | | | | | | | | |
| HGH | Start Operational Plan | Tue 4/1/03 | | | | | | | | | | | | | | | |
| | Finish Spring/ summer update | Tue 4/1/03 | | | | | | | | | | | | | | | |
| TDA | Wasco Co sampling Tuesdays (non-BiOp) | Tue 4/1/03 | | | | | | | | | | | | | | | |
| USBR | Upper Snake Augmentation determined | Tue 4/1/03 | | | | | | | | | | | | | | | |

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|---------|--|-------------|-------------|-----|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|--------|
| | | | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
| PRD | Hanford Reach Protection flows (non-BiOp) | Tue 4/1/03 | | | | | | | | | | | | | | |
| ARDB | Trout Spawning Flows 15-25 KCFS (non-BiOp) | Tue 4/1/03 | | | | | | | | | | | | | | |
| LWG | Spring Flow Objective | Thu 4/3/03 | | | | | | | | | | | | | | |
| LWG | Mop Operation | Thu 4/3/03 | | | | | | | | | | | | | | |
| LGS | Mop Operation | Thu 4/3/03 | | | | | | | | | | | | | | |
| LMN | Mop Operation | Thu 4/3/03 | | | | | | | | | | | | | | |
| LGS | Mop Operation | Thu 4/3/03 | | | | | | | | | | | | | | |
| LWG | Spill For Juvenile Fish Passage | Thu 4/3/03 | | | | | | | | | | | | | | |
| LGS | Spill For Juvenile Fish Passage | Thu 4/3/03 | | | | | | | | | | | | | | |
| LMN | Spill For Juvenile Fish Passage | Thu 4/3/03 | | | | | | | | | | | | | | |
| IHR | Spill For Juvenile Fish Passage | Thu 4/3/03 | | | | | | | | | | | | | | |
| RFC | April Final Forecast | Mon 4/7/03 | | | | | | | | | | | | | | |
| TMT | Set Flow Objectives / refill strategy | Mon 4/7/03 | | | | | | | | | | | | | | |
| LIB | Be at April 10 Flood Control Elevation | Thu 4/10/03 | | | | | | | | | | | | | | |
| GCL | Be at April 10 Flood Control Elevation | Thu 4/10/03 | | | | | | | | | | | | | | |
| DWR | Be at April 10 Flood Control Elevation | Thu 4/10/03 | | | | | | | | | | | | | | |
| HGH | Be at April 10 Flood Control Elevation | Thu 4/10/03 | | | | | | | | | | | | | | |
| ALB | Be at April 10 Flood Control Elevation | Thu 4/10/03 | | | | | | | | | | | | | | |
| MCN | Spring Flow Objective | Thu 4/10/03 | | | | | | | | | | | | | | |
| PRD | Spring Flow Objective | Thu 4/10/03 | | | | | | | | | | | | | | |
| JDA | Minimum Irrigation Pool | Thu 4/10/03 | | | | | | | | | | | | | | |
| MCN | Spill For Juvenile Fish Passage | Thu 4/10/03 | | | | | | | | | | | | | | |
| JDA | Spill For Juvenile Fish Passage | Thu 4/10/03 | | | | | | | | | | | | | | |
| TDA | Spill For Juvenile Fish Passage | Thu 4/10/03 | | | | | | | | | | | | | | |
| TDA | Spill For Juvenile Fish Passage | Thu 4/10/03 | | | | | | | | | | | | | | |
| HGH | Operational Plan Due | Thu 5/1/03 | | | | | | | | | | | | | | |
| LIB | Operational Plan Due | Thu 5/1/03 | | | | | | | | | | | | | | |
| LIB | Sturgeon pulse | Thu 5/1/03 | | | | | | | | | | | | | | |
| ARDB | 1 MAF Flow Augmentation Drafting (non-BiOp) | Thu 5/1/03 | | | | | | | | | | | | | | |
| RFC | May Final Forecast | Wed 5/7/03 | | | | | | | | | | | | | | |
| TMT | Determine Volume of Water Available for Sturgeon pulse | Wed 5/7/03 | | | | | | | | | | | | | | |
| RFC | June Final Forecast | Sat 6/7/03 | | | | | | | | | | | | | | |
| TMT | Determine Summer Flow objective | Sat 6/7/03 | | | | | | | | | | | | | | |
| DWR | Temperature Modeling and release strategy | Sun 6/15/03 | | | | | | | | | | | | | | |

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|---------|---|-------------|-------------|-----|-----|-----|-------------|-----|-----|-------------|-----|-------------|------|-----|-----|--------|------|------|
| | | | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | | |
| | Start work on next year's Water Management Plan | Sun 6/15/03 | | | | | | | | | | ◆ | 6/15 | | | | | |
| LWG | Summer Flow Objective | Sat 6/21/03 | | | | | | | | | | | | | | | | |
| MCN | Determine Summer Transport Date | Wed 6/25/03 | | | | | | | | | | ◆ | 6/25 | | | | | |
| LIB | Refill By June 30 | Mon 6/30/03 | | | | | | | | | | ◆ | 6/30 | | | | | |
| GCL | Refill By June 30 | Mon 6/30/03 | | | | | | | | | | ◆ | 6/30 | | | | | |
| DWR | Refill By June 30 | Mon 6/30/03 | | | | | | | | | | ◆ | 6/30 | | | | | |
| HGH | Refill By June 30 | Mon 6/30/03 | | | | | | | | | | ◆ | 6/30 | | | | | |
| ALF | Refill By June 30 | Mon 6/30/03 | | | | | | | | | | ◆ | 6/30 | | | | | |
| LIB | Operate to meet Summer Flow objectives | Tue 7/1/03 | | | | | | | | | | | | | | | | |
| GCL | Operate to meet Summer Flow objectives | Tue 7/1/03 | | | | | | | | | | | | | | | | |
| HGH | Operate to meet Summer Flow objectives | Tue 7/1/03 | | | | | | | | | | | | | | | | |
| ALF | Operate to meet Summer Flow objectives | Tue 7/1/03 | | | | | | | | | | | | | | | | |
| DWR | Operate to meet Summer Flow objectives | Tue 7/1/03 | | | | | | | | | | | | | | | | |
| MCN | Summer Flow Objective | Tue 7/1/03 | | | | | | | | | | | | | | | | |
| GCL | Operate Bank Lake 5 ft. from full | Tue 7/1/03 | | | | | | | | | | | | | | | | |
| LIB | Bull trout Releases | Tue 7/1/03 | | | | | | | | | | | | | | | | |
| LIB | Libby / Arrow Swap Considered | Tue 7/1/03 | | | | | | | | | | ◆ | 7/1 | | | | | |
| LIB | Summer draft Limit 2439 ft. | Sun 8/31/03 | | | | | | | | | | | | | | ◆ | 8/31 | |
| HGH | Summer draft Limit 3540 ft. | Sun 8/31/03 | | | | | | | | | | | | | | ◆ | 8/31 | |
| GCL | Summer draft Limit 1280 or 1278 ft. | Sun 8/31/03 | | | | | | | | | | | | | | ◆ | 8/31 | |
| DWR | Summer draft Limit 1520 ft. | Sun 8/31/03 | | | | | | | | | | | | | | ◆ | 8/31 | |
| GCL | Banks Lake Drafted to 1565 ft. | Sun 8/31/03 | | | | | | | | | | | | | | ◆ | 8/31 | |
| DWR | Operate at minimum outflow | Mon 9/1/03 | | | | | | | | | | | | | | | | |
| | Completion of Next year's Water Management Plan | Sat 9/20/03 | | | | | | | | | | | | | | | ◆ | 9/20 |
| GCL | Kokanee Forebay Elevation 1283 ft. (non-BiOp) | Tue 9/30/03 | | | | | | | | | | | | | | | ◆ | 9/30 |