

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	Finish	Qtr 4, 2002			Qtr 1, 2003			Qtr 2, 2003			Qtr 3, 2003		
				Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
LIB	Operate to Minimum Flows / Ramp Rates	Tue 10/1/02	Tue 9/30/03	[Gantt bar spanning Oct 2002 to Sep 2003]											
HGH	Operate to Minimum Flows / Ramp Rates	Tue 10/1/02	Tue 9/30/03	[Gantt bar spanning Oct 2002 to Sep 2003]											
LWG	Operate to 1% peak Efficiency	Tue 10/1/02	Sat 11/30/02	[Gantt bar]											
LMN	Operate to 1% peak Efficiency	Tue 10/1/02	Sat 11/30/02	[Gantt bar]											
LGS	Operate to 1% peak Efficiency	Tue 10/1/02	Sat 11/30/02	[Gantt bar]											
IHR	Operate to 1% peak Efficiency	Tue 10/1/02	Sat 11/30/02	[Gantt bar]											
MCN	Operate to 1% peak Efficiency	Tue 10/1/02	Thu 10/31/02	[Gantt bar]											
JDA	Operate to 1% peak Efficiency	Tue 10/1/02	Thu 10/31/02	[Gantt bar]											
TDA	Operate to 1% peak Efficiency	Tue 10/1/02	Thu 10/31/02	[Gantt bar]											
BON	Operate to 1% peak Efficiency	Tue 10/1/02	Thu 10/31/02	[Gantt bar]											
TMT	Assess Potential of Providing Flow for Chinook Below BON	Tue 10/1/02	Tue 10/1/02	▶ 10/1											
TMT	Assess Potential of Providing Flow for Chum Below BON	Tue 10/1/02	Tue 10/1/02	▶ 10/1											
TMT	Preliminary discussions of flood control / refill	Tue 10/1/02	Tue 10/1/02	▶ 10/1											
TMT	Albeni Falls fall/winter Draw down Discussions	Tue 10/1/02	Tue 10/1/02	▶ 10/1											
	Hanford Reach / Vernita Bar flows set (non-BiOp)	Tue 10/1/02	Tue 10/1/02	▶ 10/1											
	Calculate Integrated Rule Curves at LIB and HGH	Tue 10/1/02	Tue 10/1/02	▶ 10/1											
TMT	Develop fall / winter update	Tue 10/1/02	Tue 10/1/02	▶ 10/1											
DWR	Operate at minimum outflow	Tue 10/1/02	Mon 6/30/03	[Gantt bar spanning Oct 2002 to Jun 2003]											
PRD	Vernita Bar Protection Flows (non-BiOP)	Tue 10/1/02	Thu 5/15/03	[Gantt bar spanning Oct 2002 to May 2003]											
GCL	Kokanne Forebay Elevation 1283-1285 ft. (non- BiOP)	Tue 10/1/02	Thu 10/31/02	[Gantt bar]											
JDA	Waterfowl hunting enhancement (non-BiOP)	Mon 10/7/02	Mon 1/20/03	[Gantt bar]											
MCN	Waterfowl hunting enhancement (non-BiOp)	Mon 10/7/02	Mon 1/20/03	[Gantt bar]											
LIB	Storage May be used to Support Chum Flows	Fri 11/1/02	Fri 2/28/03	[Gantt bar]											
HGH	Storage May be used to Support Chum Flows	Fri 11/1/02	Fri 2/28/03	[Gantt bar]											
ALF	Storage May be used to Support Chum Flows	Fri 11/1/02	Fri 2/28/03	[Gantt bar]											

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				Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
GCL	Storage May be used to Support Chum Flows	Fri 11/1/02	Fri 2/28/03	[Bar]											
DWR	Storage May be used to Support Chum Flows	Fri 11/1/02	Fri 2/28/03	[Bar]											
BON	Provide Chum Flows	Fri 11/1/02	Wed 4/30/03	[Bar]											
TMT	Determine winter / spring chum flow levels	Fri 11/1/02	Fri 11/1/02	◆ 11/1											
RCC	Determine Flood Control / Refill Strategies	Sun 12/1/02	Sun 12/1/02	◆ 12/1											
RCC	Determine any Flood control shifts	Sun 12/1/02	Sun 12/1/02	◆ 12/1											
LIB	Operate to Flood Control Curve	Sun 12/1/02	Mon 6/30/03	[Bar]											
DWR	Operate to Flood Control Curve	Sun 12/1/02	Mon 6/30/03	[Bar]											
ALB	Operate to Flood Control Curve	Sun 12/1/02	Mon 6/30/03	[Bar]											
GCL	Operate to Flood Control Curve	Sun 12/1/02	Mon 6/30/03	[Bar]											
HGH	Operate to Flood Control Curve	Sun 12/1/02	Mon 6/30/03	[Bar]											
ARDB	Whitefish Flows 45-55 Kcfs (non-BiOP)	Fri 12/20/02	Mon 3/31/03	[Bar]											
LIB	Burbot Flows 6-8 Kcfs (non-BiOp)	Wed 1/1/03	Fri 3/7/03	[Bar]											
ARDB	1 MAF Flow Augmentation Filling	Wed 1/1/03	Wed 4/30/03	[Bar]											
RFC	January Final Forecast	Wed 1/8/03	Wed 1/8/03	◆ 1/8											
TMT	Preliminary Work on Spring/ Summer Update	Wed 1/15/03	Wed 1/15/03	◆ 1/15											
TMT	Begin discussing spring Operations	Sat 2/1/03	Sat 2/1/03	◆ 2/1											
TMT	Begin Spring transport Discussions	Sat 2/1/03	Sat 2/1/03	◆ 2/1											
TMT	Hanford Reach Operations Discussions (non-BiOp)	Sat 2/1/03	Sat 2/1/03	◆ 2/1											
RFC	February Final Forecast	Fri 2/7/03	Fri 2/7/03	◆ 2/7											
USBR	Min Flows from HGH and at Columbia Falls	Sat 3/1/03	Sat 3/1/03	◆ 3/1											
BON	Spring Creek Hatchery Release (non-BiOP)	Sat 3/1/03	Mon 3/10/03	[Bar]											
RCC	Outlook for Meeting Flow objectives prepared	Sat 3/1/03	Sat 3/1/03	◆ 3/1											
RFC	March Final Forecast	Fri 3/7/03	Fri 3/7/03	◆ 3/7											
LWG	Operate to 1% peak Efficiency	Sat 3/15/03	Tue 9/30/03	[Bar]											

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				Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
LMN	Operate to 1% peak Efficiency	Sat 3/15/03	Tue 9/30/03															
LGS	Operate to 1% peak Efficiency	Sat 3/15/03	Tue 9/30/03															
IHR	Operate to 1% peak Efficiency	Sat 3/15/03	Tue 9/30/03															
MCN	Operate to 1% peak Efficiency	Sat 3/15/03	Tue 9/30/03															
JDA	Operate to 1% peak Efficiency	Sat 3/15/03	Tue 9/30/03															
TDA	Operate to 1% peak Efficiency	Sat 3/15/03	Tue 9/30/03															
BON	Operate to 1% peak Efficiency	Sat 3/15/03	Tue 9/30/03															
JDA	Goose Nesting Enhancement (non-BiOp)	Sat 3/15/03	Sun 6/1/03															
MCN	Protect Nesting Waterfowl (non-BiOp)	Sat 3/15/03	Tue 7/15/03															
	Juvenile Fish collection	Tue 3/25/03	Tue 9/30/03															
TMT	Determine start dates for spring spill	Tue 4/1/03	Tue 4/1/03							◆ 4/1								
TMT	Determine Start dates for Mop Operations	Tue 4/1/03	Tue 4/1/03							◆ 4/1								
RCC	Determine JDA elevations	Tue 4/1/03	Tue 4/1/03							◆ 4/1								
LIB	Start Operational Plan	Tue 4/1/03	Tue 4/1/03							◆ 4/1								
HGH	Start Operational Plan	Tue 4/1/03	Tue 4/1/03							◆ 4/1								
	Finish Spring/ summer update	Tue 4/1/03	Tue 4/1/03							◆ 4/1								
TDA	Wasco Co sampling Tuesdays (non-BiOp)	Tue 4/1/03	Sun 8/31/03															
USBR	Upper Snake Augmentation determined	Tue 4/1/03	Tue 4/1/03							◆ 4/1								
PRD	Hanford Reach Protection flows (non-BiOp)	Tue 4/1/03	Mon 6/30/03															
ARDB	Trout Spawning Flows 15-25 KCFS (non-BiOp)	Tue 4/1/03	Mon 6/30/03															
LWG	Spring Flow Objective	Thu 4/3/03	Fri 6/20/03															
LWG	Mop Operation	Thu 4/3/03	Tue 9/30/03															
LGS	Mop Operation	Thu 4/3/03	Sun 8/31/03															
LMN	Mop Operation	Thu 4/3/03	Sun 8/31/03															
LGS	Mop Operation	Thu 4/3/03	Sun 8/31/03															

Project	Task Name	Start	Finish	Qtr 4, 2002			Qtr 1, 2003			Qtr 2, 2003			Qtr 3, 2003		
				Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
LWG	Spill For Juvenile Fish Passage	Thu 4/3/03	Fri 6/20/03												
LGS	Spill For Juvenile Fish Passage	Thu 4/3/03	Fri 6/20/03												
LMN	Spill For Juvenile Fish Passage	Thu 4/3/03	Fri 6/20/03												
IHR	Spill For Juvenile Fish Passage	Thu 4/3/03	Sun 8/31/03												
RFC	April Final Forecast	Mon 4/7/03	Mon 4/7/03							◆ 4/7					
TMT	Set Flow Objectives / refill strategy	Mon 4/7/03	Mon 4/7/03							◆ 4/7					
LIB	Be at April 10 Flood Control Elevation	Thu 4/10/03	Thu 4/10/03							◆ 4/10					
GCL	Be at April 10 Flood Control Elevation	Thu 4/10/03	Thu 4/10/03							◆ 4/10					
DWR	Be at April 10 Flood Control Elevation	Thu 4/10/03	Thu 4/10/03							◆ 4/10					
HGH	Be at April 10 Flood Control Elevation	Thu 4/10/03	Thu 4/10/03							◆ 4/10					
ALB	Be at April 10 Flood Control Elevation	Thu 4/10/03	Thu 4/10/03							◆ 4/10					
MCN	Spring Flow Objective	Thu 4/10/03	Mon 6/30/03												
PRD	Spring Flow Objective	Thu 4/10/03	Mon 6/30/03												
JDA	Minimum Irrigation Pool	Thu 4/10/03	Tue 9/30/03												
MCN	Spill For Juvenile Fish Passage	Thu 4/10/03	Mon 6/30/03												
JDA	Spill For Juvenile Fish Passage	Thu 4/10/03	Sun 8/31/03												
TDA	Spill For Juvenile Fish Passage	Thu 4/10/03	Sun 8/31/03												
TDA	Spill For Juvenile Fish Passage	Thu 4/10/03	Sun 8/31/03												
HGH	Operational Plan Due	Thu 5/1/03	Thu 5/1/03							◆ 5/1					
LIB	Operational Plan Due	Thu 5/1/03	Thu 5/1/03							◆ 5/1					
LIB	Sturgeon pulse	Thu 5/1/03	Mon 6/30/03												
ARDB	1 MAF Flow Augmentation Drafting (non-BiOp)	Thu 5/1/03	Thu 7/31/03												
RFC	May Final Forecast	Wed 5/7/03	Wed 5/7/03							◆ 5/7					
TMT	Determine Volume of Water Available for Sturgeon pulse	Wed 5/7/03	Wed 5/7/03							◆ 5/7					
RFC	June Final Forecast	Sat 6/7/03	Sat 6/7/03										◆ 6/7		

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

Project	Task Name	Start	Finish	Qtr 4, 2002			Qtr 1, 2003			Qtr 2, 2003			Qtr 3, 2003		
				Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Completion of Next year's Water Management Plan	Sat 9/20/03	Sat 9/20/03												◆
GCL	Kokanee Forebay Elevation 1283 ft. (non-BiOp)	Tue 9/30/03	Tue 9/30/03												◆