

**TABLE 4-1**

## Summary of Water Management Recommendations for Wenatchee River at Monitor

<i>Month</i>	<i>Day</i>	<i>Management Flow (cfs)</i>	<i>Maximum Allocation*</i>		<i>Reason</i>
			<i>Cfs</i>	<i>Ac-ft/day</i>	
<b>January</b>	1	1867	132	261	Chinook Intragravel Incubation
	31	1867	132	261	
<b>February</b>	1	1867	148	293	
	14	1867	148	293	
	15	2400	148	293	Steelhead Spawning
<b>March</b>	1	2400	192	380	
<b>April</b>	1	2400	360	713	
<b>May</b>	1	2400	710	1,406	
<b>June</b>	1	2400	813	1,610	
	15	2400	813	1,610	
	16	1600	813	1,610	Steelhead Intragravel Incubation
<b>July</b>	1	1600	373	739	
<b>August</b>	1	1600	117	232	
	15	1600	117	232	
	16	900	117	232	Steelhead Rearing
<b>September</b>	1	900	72	143	
	15	900	72	143	
	16	1338	0***	0	Summer Chinook Spawning/ 10% Exceedance Flow
	30	1338	0***	0	
<b>October</b>	1	1723	0***	0	Summer Chinook Spawning/ 10% Exceedance Flow
	15	1723	0***	0	
	16	2427	0***	0	Summer Chinook Spawning/ 10% Exceedance Flow
	31	2427	0***	0	
<b>November</b>	1	2800	139	275	Summer Chinook Spawning
	30	2800	139	275	
<b>December</b>	1	1867	130	257	Chinook Intragravel Incubation
	31	1867	130	257	

**Notes:** \* = All Allocation subject to meeting instream flow. Maximum Allocation does not include reserve

\*\*\*= No Allocation - Flows set lower than optimum

**TABLE 4-2**

## Summary of Water Management Recommendations for Wenatchee River at Peshastin

<i>Month</i>	<i>Day</i>	<i>Management Flow (cfs)</i>	<i>Maximum Allocation*</i>		<i>Reason</i>
			<i>cfs</i>	<i>Ac-ft/day</i>	
<b>January</b>	1	1933	113	224	Chinook Intragravel Incubation
	31	1933	113	224	
<b>February</b>	1	1933	111	220	
	14	1933	111	220	
	15	2800	111	220	Steelhead Spawning
<b>March</b>	1	2800	147	291	
<b>April</b>	1	2800	335	663	
<b>May</b>	1	2800	711	1,408	
<b>June</b>	1	2800	800	1,584	
	15	2800	800	1,584	Steelhead Spawning
	16	1933	800	1,584	Steelhead Intragravel Incubation
<b>July</b>	1	1933	376	744	
<b>August</b>	1	1933	122	242	
	15	1933	122	242	Steelhead Intragravel Incubation
	16	1400	122	242	Steelhead Rearing
	31	1400	122	242	
<b>September</b>	1	1311	0**	0**	Steelhead Rearing/ 10% Exceedance Flow
	15	1311	0**	0**	
	16	1311	0**	0**	Summer Chinook Spawning/ 10% Exceedance Flow
	30	1311	0**	0**	
<b>October</b>	1	1932	0**	0**	Summer Chinook Spawning/ 10% Exceedance Flow
	15	1932	0**	0**	
	16	2672	0**	0**	Summer Chinook Spawning/ 10% Exceedance Flow
	31	2672	0**	0**	
<b>November</b>	1	2900	128	253	Summer Chinook Spawning
	30	2900	128	253	
<b>December</b>	1	1933	122	242	Chinook Intragravel Incubation
	31	1933	122	242	

**Notes:** \* = All Allocation subject to meeting instream flow. Maximum Allocation does not include reserve

\*\*= No Allocation - Flows set lower than optimum

**TABLE 4-3**

Summary of Water Management Recommendations for Wenatchee River near Plain

<i>Month</i>	<i>Day</i>	<i>Management Flow (cfs)</i>	<i>Maximum Allocation*</i>		<i>Reason</i>
			<i>cfs</i>	<i>Ac-ft/day</i>	
<b>January</b>	1	550	82	162	Existing 1983 Rule for Mgt. Flow
<b>February</b>	1	550	78	154	
<b>March</b>	1	550	96	190	
	15	700	96	190	
<b>April</b>	1	910	243	481	
	15	1150	243	481	
<b>May</b>	1	1500	525	1,040	
	15	2000	525	1,040	
<b>June</b>	1	2500	604	1,196	
	15	2000	604	1,196	
<b>July</b>	1	1500	296	586	
	15	1200	296	586	
<b>August</b>	1	880	102	202	
	15	700	102	202	
<b>September</b>	1	660	0**	0	
	15	620	0**	0	
	16	620	0**	0	
	30	620	0**	0	
<b>October</b>	1	580	0**	0	
	31	520	0**	0	
<b>November</b>	1	550	95	188	
	15	550	95	188	
<b>December</b>	1	550	92	182	
	15	550	92	182	

**Notes:** \* = All Allocation subject to meeting instream flow. Maximum Allocation does not include reserve

\*\*= No Allocation due to 0 cfs allocation at Wenatchee R @ Peshastin or Monitor control points

**TABLE 4-4**

## Summary of Water Management Recommendations for Mission Creek near Cashmere

<i>Month</i>	<i>Day</i>	<i>1983 Flow</i>	<i>Management Flow (cfs)</i>	<i>Maximum Allocation*</i>		<i>Reason</i>
				<i>Cfs</i>	<i>Ac-ft/day</i>	
<b>January</b>	1	6	4.7	0.6	1.1	Steelhead Rearing
<b>February</b>	1	6	4.7	1.2	2.5	
	14	6	4.7	1.2	2.5	
	15	6	24.2	1.2	2.5	Steelhead Spawning
<b>March</b>	1	6	24.2	1.4	2.8	Steelhead Spawning
	15	11	24.2	1.4	2.8	
<b>April</b>	1	22	24.2	2.7	5.3	Steelhead Spawning
	15	40	24.2	2.7	5.3	
<b>May</b>	1	40	24.2	3.1	6.2	Steelhead Spawning
	31	40	24.2	3.1	6.2	
<b>June</b>	1	28	24.2	1.9	3.8	Steelhead Spawning
	15	20	24.2	1.9	3.8	
	16	20	16.2	1.9	3.8	Steelhead Incubation
	30	20	16.2	1.9	3.8	
<b>July</b>	1	14	11	0***	0	Steelhead Incubation/10% Exceedance Flow
	15	10	11	0***	0	
	31	10	11	0***	0	
<b>August</b>	1	7	6	0***	0	
	15	5	6	0***	0	Steelhead Incubation/10% Exceedance Flow
	16	5	4.7	0.3	0.6	Steelhead Rearing
	31	5	4.7	0.3	0.6	
<b>September</b>	1	4	4.7	0**	0	Steelhead Rearing
	15	4	4.7	0**	0	
	16	4	4.7	0**	0	
	30	4	4.7	0**	0	
<b>October</b>	1	4	4.7	0**	0	Steelhead Rearing
	31	5	4.7	0**	0	
<b>November</b>	1	6	4.7	0.4	0.9	Steelhead Rearing
	30	6	4.7	0.4	0.9	
<b>December</b>	1	6	4.7	0.4	0.9	Steelhead Rearing
	31	6	4.7	0.4	0.9	

**Notes:** \* = All Allocation subject to meeting instream flow. Maximum Allocation does not include reserve

\*\* = No Allocation due to 0 cfs allocation at Wenatchee R @ Peshastin or Monitor control points

\*\*\* = No Allocation – Mission flows set lower than optimum

**TABLE 4-5**

Summary of Water Management Recommendations for Peshastin Creek at Green Bridge

<i>Month</i>	<i>Day</i>	<i>Management Flow (cfs)</i>	<i>Maximum Allocation*</i>		<i>Reason</i>
			<i>Cfs</i>	<i>Ac-ft/day</i>	
<b>January</b>	1	53	6	12	Chinook Intragravel Incubation
	31	53	6	12	
<b>February</b>	1	53	6	12	
	14	53	6	12	
	15	120	6	12	Steelhead Spawning
<b>March</b>	1	120	7	14	
<b>April</b>	1	120	16	32	
<b>May</b>	1	120	38	75	
<b>June</b>	1	120	44	87	
	15	120	44	87	Steelhead Spawning
	16	110	44	87	Steelhead Rearing
<b>July</b>	1	110	20	40	
<b>August</b>	1	80	0***	0	Spring Chinook Spawning
	15	80	0***	0	
	16	80	0***	0	
<b>September</b>	1	80	0***	0	
	15	80	0***	0	
	16	80	0**	0	
	30	80	0**	0	Spring Chinook Spawning
<b>October</b>	1	53	0**	0	Chinook Intragravel Incubation
	15	53	0**	0	
	16	53	0**	0	
	31	53	0**	0	
<b>November</b>	1	53	7	14	
	30	53	7	14	
<b>December</b>	1	53	7	14	
	31	53	7	14	Chinook Intragravel Incubation

**Notes:** \* = All Allocation subject to meeting instream flow. Maximum Allocation does not include reserve

\*\* = No Allocation due to 0 cfs allocation at Wenatchee R @ Peshastin or Monitor control points

\*\*\* = No allocation due to seasonal closure on Peshastin Creek (August 1 – October 15)

**TABLE 4-6**

## Summary of Water Management Recommendations for Icicle Creek near Leavenworth

<i>Month</i>	<i>Day</i>	<i>Management Flow (cfs)</i>	<i>Maximum Allocation*</i>		<i>Reason</i>
			<i>Cfs</i>	<i>Ac-ft/day</i>	
<b>January</b>	1	267	21	42	Chinook Intragravel Incubation
	31	267	21	42	
<b>February</b>	1	267	20	40	
	14	267	20	40	
	15	566	0***	0	Steelhead Spawning/10% Exceedance Flow
	28	566	0***	0	
<b>March</b>	1	518	0***	0	
	15	518	0***	0	
<b>April</b>	1	650	59	117	Steelhead Spawning
<b>May</b>	1	650	149	295	
<b>June</b>	1	650	175	347	
	15	650	175	347	
	16	550	175	347	Steelhead Rearing
<b>July</b>	1	550	76	150	
	31	550	76	150	
<b>August</b>	1	400	28	55	Spring Chinook Spawning
	15	400	28	55	
	16	343	0***	0	Spring Chinook Spawning/ 10% Exceedance Flow
	31	343	0***	0	
<b>September</b>	1	275	0***	0	
<b>October</b>	1	267	0**	0	Chinook Intragravel Incubation
	31	267	0**	0	
<b>November</b>	1	267	23	46	
	30	267	23	46	
<b>December</b>	1	267	25	50	Chinook Intragravel Incubation
	31	267	25	50	

**Notes:** \* = All Allocation subject to meeting instream flow. Maximum Allocation does not include reserve

\*\* = No Allocation due to 0 cfs allocation at Wenatchee R @ Peshastin or Monitor control points

\*\*\* = No Allocation – Icicle flows set lower than optimum

**TABLE 4-7**

Summary of Water Management Recommendations for Nason Creek near Plain

<i>Month</i>	<i>Day</i>	<i>Management Flow (cfs)</i>	<i>Maximum Allocation*</i>		<i>Reason</i>
			<i>cfs</i>	<i>Ac-ft/day</i>	
<b>January</b>	1	120	13	26	Chinook Intragravel Incubation
	31	120	13	26	
<b>February</b>	1	120	12	24	
	14	120	12	24	
	15	160	12	24	Steelhead Spawning
<b>March</b>	1	160	15	30	
	15	160	15	30	
	16	160	15	30	
<b>April</b>	1	160	44	87	
<b>May</b>	1	160	99	196	
<b>June</b>	1	160	114	226	
	15	160	114	226	
	16	210	114	226	Steelhead Rearing
<b>July</b>	1	210	54	107	
<b>August</b>	1	180	17	34	Spring Chinook Spawning
	15	180	17	34	
	16	180	17	34	
<b>September</b>	1	165	0***	0	Spring Chinook Spawning/ 10% Exceedance Flow
	15	165	0***	0	
	16	165	0***	0	
	30	165	0***	0	
<b>October</b>	1	120	0**	0	Chinook Intragravel Incubation
	15	120	0**	0	
	16	120	0**	0	
	31	120	0**	0	
<b>November</b>	1	120	15	30	
	30	120	15	30	
<b>December</b>	1	120	15	30	Chinook Intragravel Incubation
	31	120	15	30	

**Notes:** \* = All Allocation subject to meeting instream flow. Maximum Allocation does not include reserve

\*\*= No Allocation due to 0 cfs allocation at Wenatchee R @ Peshastin or Monitor control points

\*\*\*= No Allocation – Nason flows set lower than optimum

**TABLE 4-8**

## Summary of Water Management Recommendations for Chiwawa River near Plain

<i>Month</i>	<i>Day</i>	<i>Management Flow (cfs)</i>	<i>Maximum Allocation*</i>		<i>Reason</i>
			<i>Cfs</i>	<i>Ac-ft/day</i>	
<b>January</b>	1	267	12	24	Chinook Intragravel Incubation
	31	267	12	24	
<b>February</b>	1	267	12	24	
	14	267	12	24	
	15	277	0***	0	Steelhead Spawning/ 10% Exceedance Flow
	28	277	0***	0	
<b>March</b>	1	277	0***	0	
	15	277	0***	0	Steelhead Spawning/ 10% Exceedance Flow
	16	475	16	32	Steelhead Spawning
<b>April</b>	1	475	58	115	
<b>May</b>	1	475	139	275	
<b>June</b>	1	475	147	291	
	15	475	147	291	Steelhead Spawning
	16	375	147	291	Steelhead Rearing
<b>July</b>	1	375	71	141	
	31	375	71	141	Steelhead Rearing
<b>August</b>	1	400	24	48	Spring Chinook Spawning
	15	400	24	48	
	16	369	0***	0	Spring Chinook Spawning/ 10% Exceedance Flow
	31	369	0***	0	
<b>September</b>	1	270	0***	0	
	15	270	0***	0	
	16	270	0***	0	
	30	270	0***	0	Spring Chinook Spawning/ 10% Exceedance Flow
<b>October</b>	1	267	0**	0	Chinook Intragravel Incubation
	31	267	0**	0	
<b>November</b>	1	267	16	32	
	30	267	16	32	
<b>December</b>	1	267	14	28	Chinook Intragravel Incubation
	31	267	14	28	

**Notes:** \* = All Allocation subject to meeting instream flow. Maximum Allocation does not include reserve

\*\*= No Allocation due to 0 cfs allocation at Wenatchee R @ Peshastin or Monitor control points

\*\*\*= No Allocation – Chiwawa flows set lower than optimum



**TABLE 4-10**

## WRIA 45 Water Reservation and Associated Habitat Loss

	<b>Reserve (CFS)</b>	<b>Habitat Loss<sup>a</sup></b>	<b>Max Reserve (CFS)=1% Habitat Loss<sup>e</sup></b>	<b>Notes</b>
<b>Wenatchee Watershed</b>	4.0	1.5%		Upper limit for WRIA 45. Habitat loss measured at Monitor gage
<b>Lower Wenatchee Watershed</b>	3.0 – 3.5	n.a.		Sum of all water use below Tumwater Canyon
Mission Creek	0.12 <sup>b</sup>	n.a	n.a	
Peshastin Creek	0.1	0.3%	0.4	
Icicle Creek	0.1 <sup>d</sup>	0.09%	1.2	
Chumstick Creek	0.13 <sup>c</sup>	n.a	n.a	
<b>Upper Wenatchee Watershed</b>	0.5 – 1.0	n.a		Sum of all water use above Tumwater Canyon
Chiwawa River	0.1	0.19%	0.5	
Nason Creek	0.1	0.6%	0.16	
Lake Wenatchee	0.1	n.a	n.a	
White/Little Wenatchee	0.05	n.a	n.a	} Sum of White, Little Wenatchee, and Chiwaukum = 0.1 cfs
Chiwaukum Creek	0.01	n.a	n.a	

**Notes:**

- a. Estimate of percent decrease in salmon or steelhead habitat that would occur during low flows for the specified reservation withdrawal.
  - b. Mission Creek Reserve Limited to 0.03 cfs for 2 years following rule adoption or until alternate sources are identified.
  - c. Chumstick Cr. Reserve Limited to 0.043 cfs for 3 years following rule adoption or until alternate sources are identified.
  - d. Icicle Creek Reserve Limited to 0.1 cfs until flow restoration efforts between diversion & hatchery return are addressed.
  - e. The withdrawal (in cfs) that would result in a 1% habitat loss in a particular tributary. Where specified, this withdrawal is considered the upper limit of the reservation.
- n.a. = not available