

Proposed Instream Flow Levels – Tucannon and Asotin Subbasins WRIA 35 Instream Flow Assessment

The proposed instream flows summarized below were developed by separate workgroups for the Tucannon and Asotin Subbasins. The workgroups met in March and April of 2006 for Asotin and Tucannon, respectively, and were comprised of interested parties including local land owners and Ecology and WDFW staff.

Tucannon Subbasin

Instream flow values are derived from methods described in Tech Memo 2a (June 2005) using the IFIM study results (by Ecology at Smith Hollow), fish periodicity (table discussed at January 2006 meeting), and historical flow data from USGS 13344500.

Month	MP-1a (cfs)	MP-1b (cfs)	10%	50%	90%
October	85	85	102	83	65
November	85	85	134	108	87
December	85	85	281	135	88
January	100	100	383	162	96
February	105	105	455	217	129
March	105	105	335	226	142
April	105	105	426	255	159
May	105	105	433	265	165
June (1-15)/(16-30)	90/70	90/75	330	178	88
July	50	75	126	77	51
August	50	75	79	61	43
September (1-15)/(16-30)	50/70	75	89	72	52

MP-1a – Tucannon River at mouth (to Territorial Rd.) basis:

- October – May focuses on steelhead juvenile as species/lifestage being managed for and achieve ~98%+ of the optimum WUA based on the instream flow study results.
- June and September are split because of the moderate activity of steelhead juvenile in the early part of June and late part of September in this reach of the Tucannon.
- June – September there is no observed activity for fisheries and these instream flow values are based on aesthetic reasons and historical flow conditions.

MP-1b – Tucannon at Territorial Rd (to Marengo) Basis:

- October – May focuses on steelhead juvenile as species/lifestage being managed for and achieves ~98%+ of the optimum WUA based on the instream flow study results.
- June – September focuses on steelhead juvenile as species/lifestage being managed for and achieves ~96%+ of the optimum WUA based on the instream flow study results.
- June is split because of the flow transition that occurs this month.

Asotin Subbasin**MP-12 – Asotin Cr. at mouth**

Values are derived from methods in described in Tech Memo 2a (June 2005) using the IFIM study results (by Ecology), fish periodicity (table discussed at January 2006 meeting), and historical flow data from USGS 13335500 (1989-2004).

Month	MP-12 (cfs)	10%	50%	90%
October	*48	48	37	30
November	*65	65	47	35
December	70	199	49	37
January	75	190	67	41
February	90	226	79	39
March	90	232	127	73
April	90	286	183	96
May	90	338	175	94
June	75	281	91	44
July	75	87	45	36
August	*44	44	35	29
September	*42	42	36	29

Basis:

- February – May focuses on steelhead spawning as species/lifestage being managed for and achieves ~100%+ of the optimum WUA based on the instream flow study results.
- June and October – January focuses on steelhead juvenile as species/lifestage being managed for and achieves ~94%+ of the optimum WUA based on the instream flow study results, with the exception of October and November when hydrology limits the available flow.
- Fish are generally not present in July and August.
- August – November is limited by the 10% exceedance flow.

