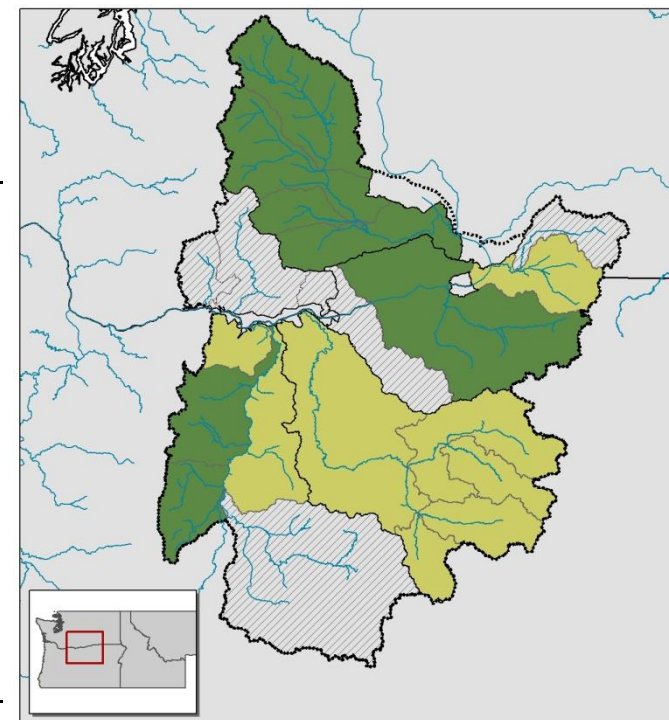


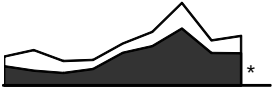
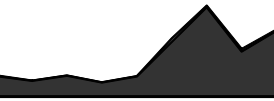
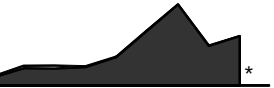
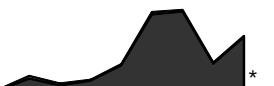
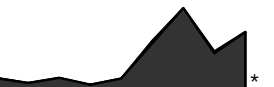
MIDDLE COLUMBIA RIVER STEELHEAD: 1996-2005

ESA LISTING STATUS: Threatened 1999

MPG Population		Trend category	Trend (slope of ln natural-origin abundance)	10-year Spawning Abundance 1996-2005 black= natural-origin, line= total	10-year Geometric Mean (Total Spawners)	10-year Geometric Mean (Natural-origin Spawners)
Cascades Eastern Slope Tributaries	Deschutes River-eastside	No trend	0.19		2773	1599
	Deschutes River-westside	Increasing	0.17		615	456
	Fifteenmile Creek Winter	No trend	0.09		649	649
	Klickitat River	No estimate				
	Rock Creek	No estimate				
John Day River	John Day River Lower Mainstem Tributaries	No trend	0.04		2000	1800
	John Day River Upper Mainstem	No trend	0.04		572	524
	Middle Fork John Day River	No trend	0.02		825	756
	North Fork John Day River	No trend	0.04		1898	1740
	South Fork John Day River	No trend	0.14		283	259



This summary sheet contains abundance trend information compiled from state and tribal sources using methodologies developed by the NWFSC Technical Recovery Teams. It is intended for summary information purposes; please see <http://www.nwfsc.noaa.gov/> for more detailed information on population and ESU status. Trend was calculated as the slope of the linear regression of log transformed natural origin spawning abundance over the last 10 years of available data. See [Good et al. \(2005\)](#) for details. Trends with a p -value < 0.05 were classified as "no trend".

MPG Population		Trend category	Trend (slope of ln natural-origin abundance)	10-year Spawning Abundance 1996-2005 black= natural-origin, line= total	10-year Geometric Mean (Total Spawners)	10-year Geometric Mean (Natural-origin Spawners)
Umatilla and Walla Walla	Umatilla River	Increasing	0.14		2506	1579
	Walla Walla River	No trend	0.08		667	650
	Touchet River	Updates pending				
Yakima River	Naches River	Increasing	0.20		535	502
	Satus Creek	Increasing	0.13		413	388
	Toppenish Creek	Increasing	0.29		379	356
	Yakima River upper mainstem	Increasing	0.19		94	93

* = no data available for 2005

DPS ABUNDANCE TREND:

NO TREND

Trend Category	# of populations
Increasing	6
No trend	8
Decreasing	0
Data pending/ No estimate	3

Spawning abundance estimates were available for 14 of 17 populations through 2004 or 2005. More recent data is pending. All populations with available data were 'increasing' or had 'no trend' therefore the ESU is considered to have 'no trend'.

Abundance is only 1 of 4 Viable Salmonid Population indicators. The other factors - productivity, diversity, spatial structure - also influence ESU status.