

Comparison of Recent Hydro Survival With 2005/2008 and 2010 Performance Standards

	Migration Year	In-River Survival (Pit Tag studies)	Total System survival	
			(Simpas generated)	D=0.63 D=0.73
Snake River Spring/Summer Chinook	1994	27.2	55.8	64.5
	1995	41.8	50.3	56.6
	1996	40.6	54.2	61.1
	1997	38.4	50.6	57.1
	1998	45.1	54.3	61.4
	1999	51.9	56.1	63.2
	1994-1999 average (2005/2008 Perf. Std.)	40.8	53.6	60.6
	2010 Perf. Std.	49.6	54.8	60.4
	2000	47.6	52.9	59.1
	2001	28.0	58.2	67.4
Snake River Fall Chinook	2002	57.8	56.8	64
	2003	53.2	N/A	N/A
			D=.24	
	1994	16.4	14.4	
	1995	11.3	10.6	
	1996	0.5	6.2	
	1997	13.9	11.9	
	1998	8.6	15	
	1999	10.2	11.7	
	1994-1999 average (2005/2008 Perf. Std.)	10.2	11.6	
Upper Columbia Spring Chinook	2010 Perf. Std.	14.3	12.7	
	2000	7.2	15.2	
	2001	5.0	14.2	
	2002	N/A	N/A	
	2003	N/A	N/A	
			D=0.63 D=0.73	
	1994	46.4		
	1995	60.4		
	1996	55.5		
	1997	56.0		
Upper Columbia Spring Chinook	1998	60.8		
	1999	66.0		
	1994-1999 average (2005/2008 Perf. Std.)	57.5		
	2010 Perf. Std.	66.4		
	2000	64.2		
	2001	44.1	55.7	64.5
	2002	76.3		
	2003	72.8		

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Migration Year	In-River Survival (Pit Tag studies)	Total System survival (Simpas generated)	
		D=.52	D=.56
Snake River Steelhead			
1994	32.2	45.5	49
1995	48.8	47.1	49.9
1996	42.8	46.4	49.3
1997	45.5	48.5	51.6
1998	41.8	45.6	48.6
1999	40.2	44.6	47.5
1994-1999 average (2005/2008 Perf. Std.)	41.5	46.3	49.3
2010 Perf. Std.	51.6	49.0	52.5
2000	37.5	42.1	45.7
2001	4.1	45.4	50.6
2002	26.2	41.6	46.2
2003	30.9		

**Upper Columbia Steelhead and
Mid Columbia Steelhead
Originating Above McNary Dam**
(Note: MCR steelhead stocks that originate from lower tributaries have lower expected survival)

	D=.52	D=.56
1994	52.3	
1995	64.0	
1996	58.6	
1997	59.5	
1998	61.1	
1999	57.3	
1994-1999 average (2005/2008 Perf. Std.)	58.6	
2010 Perf. Std.	67.7	
2000	55.1	
2001	13.3	18.2
2002	48.8	19.5
2003	51.8	