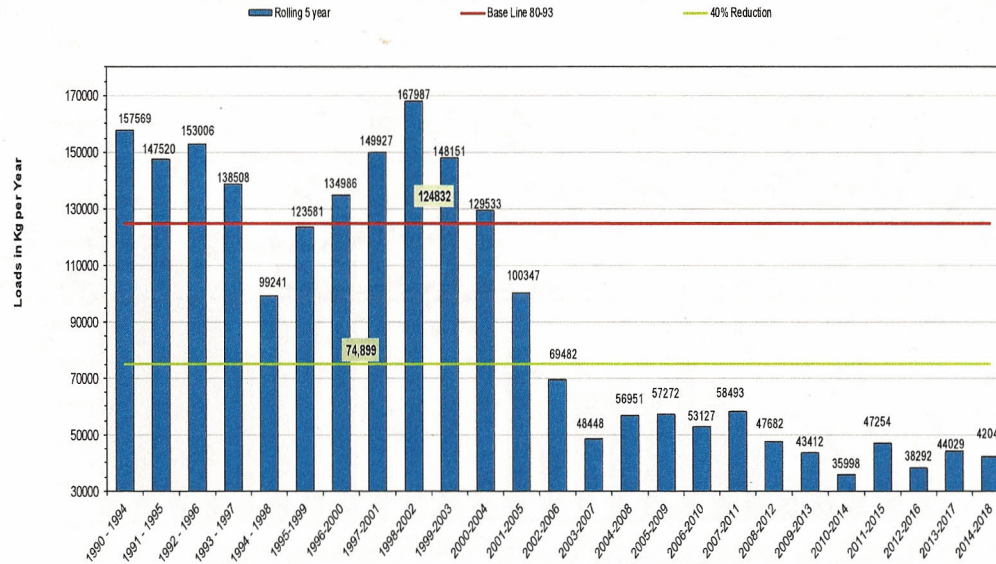


# Illinois River near Watts

Illinois River near Watts				Loadings
Year	Flow (cfs)	Total P (mg/L)	Total P (kg/year)	
1980	173	0.423	65,279	
1981	260	0.190	44,119	
1982	591			
1983	352			
1984	706			
1985	947			
1986	879			
1987	815			
1988	531			
1989	558	0.210	104,653	
1990	1,127	0.181	182,432	
1991	724	0.162	104,534	
1992	760	0.161	109,571	
1993	1,163	0.277	287,317	
1994	674	0.168	101,127	
1995	783	0.143	100,233	
1996	693	0.188	116,542	
1997	573	0.163	83,415	
1998	713	0.138	87,876	
1999	793	0.250	177,057	
2000	648	0.309	178,827	
2001	649	0.346	200,549	
2002	619	0.316	174,694	
2003	347	0.155	48,035	
2004	688	0.104	63,903	
2005	459	0.106	43,453	
2006	349	0.116	36,156	
2007	464	0.106	43,926	
2008	1177	0.068	71,480	
2009	915	0.069	56,386	
2010	587	0.057	29,882	
2011	1101	0.081	79,648	
2012	336	0.052	15,594	
2013	642	0.082	46,994	
2014	448	0.056	22,412	
2015	1364	0.061	74,303	
2016	434	0.065	25,189	
2017	918	0.064	52,481	
2018	715	0.066	42,126	
Average	684	0.154	94,167	

Year	80-93	90-94	91-95	92-96	93-97	94-98	95-99	96-00	97-01	98-02	99-03	00-04	01-05	02-06	03-07	04-08	05-09	06-10	07-11	08-12	09-13	10-14	11-15	12-16	13-17	14-18
Pt (mg/l)	0.204	0.198	0.201	0.210	0.200	0.162	0.195	0.221	0.249	0.275	0.271	0.246	0.203	0.158	0.118	0.102	0.095	0.085	0.077	0.065	0.068	0.066	0.068	0.065	0.061	
Flow (cfs)	685	890	821	815	777	687	711	684	675	684	611	590	552	492	461	627	673	698	849	823	716	746	778	690	761	
Pt (kg/yr)	124,832	157,569	147,520	153,006	138,508	99,241	123,581	134,986	149,927	167,987	148,151	129,533	100,347	69,482	48,448	56,951	57,272	53,127	58,493	47,682	43,412	36,806	47,254	38,287	44,029	
Decrease	0.0%	-26.2%	-18.2%	-22.6%	-11.0%	20.5%	1.0%	-8.1%	-20.1%	-34.6%	-18.7%	-3.8%	19.6%	44.3%	61.2%	54.4%	54.1%	57.4%	53.1%	61.8%	65.2%	70.5%	62.1%	69.3%	64.7%	

Illinois River near Watts (excluding targeted high flows)



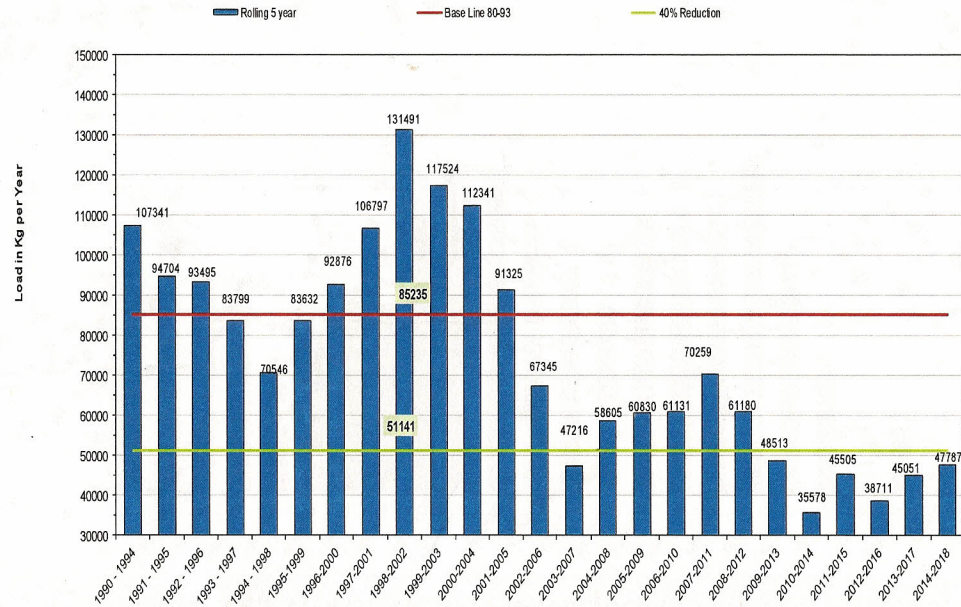
0.066 /  
42,126 kg/yr

# Illinois River near Tahlequah

Illinois River Near Tahlequah			Loadings
Year	Flow (cfs)	Total P (mg/L)	Total P kg/year
1980	249		
1981	384		
1982	812		
1983	537		
1984	1,157		
1985	1,651		
1986	1,452		
1987	1,218		
1988	820		
1989	808		
1990	1,695	0.098	147,579
1991	1,094	0.079	76,796
1992	1,207	0.080	86,205
1993	1,751	0.099	154,647
1994	1,071	0.084	80,223
1995	1,123	0.080	80,229
1996	938	0.085	71,207
1997	812	0.069	49,797
1998	1,044	0.081	75,524
1999	1,143	0.121	123,518
2000	1,083	0.136	131,543
2001	1,033	0.158	145,766
2002	851	0.211	160,366
2003	478	0.100	42,690
2004	1,157	0.075	77,499
2005	712	0.060	38,148
2006	426	0.074	28,154
2007	736	0.066	43,383
2008	1,839	0.062	101,829
2009	1,407	0.072	90,475
2010	819.8	0.050	36,608
2011	1,540.8	0.058	79,813
2012	491.8	0.038	16,689
2013	946.1	0.043	36,331
2014	659.4	0.038	22,378
2015	2,174.6	0.041	79,628
2016	700.6	0.050	31,286
2017	1,219.7	0.050	54,465
2018	987.2	0.054	47,610
Average	1,032	0.080	73,396

Year	80-93	90-94	91-95	92-96	93-97	94-98	95-99	96-00	97-01	98-02	99-03	00-04	01-05	02-06	03-07	04-08	05-09	06-10	07-11	08-12	09-13	10-14	11-15	12-16	13-17	14-18
Pt (mg/l)	0.090	0.088	0.085	0.086	0.082	0.079	0.093	0.104	0.117	0.143	0.143	0.137	0.121	0.104	0.075	0.067	0.067	0.065	0.062	0.056	0.052	0.046	0.045	0.042	0.044	0.047
Flow (cfs)	1060	1364	1249	1218	1139	998	1012	1004	1023	1031	918	920	846	725	702	974	1024	1046	1269	1220	1041	892	1163	994	1140	1148
Pt (kg/yr)	85,235	107,341	94,704	93,495	83,799	70,546	83,632	92,876	106,797	131,491	117,524	112,341	91,323	67,345	47,216	58,605	60,830	61,131	70,259	61,180	48,513	35,578	45,505	37,303	45,051	47,787
Decrease	0.0%	-25.9%	-11.1%	-9.7%	1.7%	17.2%	1.9%	-9.0%	-25.3%	-54.3%	-37.9%	-31.8%	-7.1%	21.0%	44.6%	31.2%	28.6%	28.3%	17.6%	28.2%	43.1%	58.3%	46.6%	56.2%	47.1%	43.9%

Illinois River near Tahlequah (excluding targeted high flows)



1047  
47787 kg/yr

1054  
472610 kg/yr