

Illinois River at Watts

Illinois River at Watts				Loadings	
Year	Flow (cfs)	Total P (mg/L)	Ortho P (mg/L)	Total P kg/year	Ortho 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	0.150	104,653	74,752
1990	1,127	0.181	0.118	182,432	118,266
1991	724	0.162	0.090	104,534	58,194
1992	760	0.161	0.127	109,571	86,299
1993	1,163	0.277	0.176	287,317	182,313
1994	674	0.168	0.128	101,127	77,049
1995	783	0.143	0.130	100,233	90,909
1996	693	0.188	0.192	116,542	118,628
1997	573	0.163	0.120	83,415	61,410
1998	713	0.138	0.120	87,876	76,414
1999	793	0.250	0.145	177,057	102,693
2000	648	0.309	0.227	178,827	131,371
2001	649	0.346	0.233	200,549	135,052
2002	619	0.316	0.173	174,694	95,639
2003	347	0.155	0.176	48,035	54,543
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	
2019	1511	0.071		95,806	
2020	1116	0.050		49,832	
2021	964	0.051		43,912	
2022	1057	0.057		53,791	
2023	721	0.049		31,555	
Average	728	0.141	0.154	91,602	99,894

Illinois River at Watts				
Year	Pt (mg/l)	Flow (cfs)	Pt (kg/yr)	% Decrease
1980-1993	0.204	685	124,832	0.0%
1990-1994	0.198	890	157,569	-26.2%
1991-1995	0.201	821	147,520	-18.2%
1992-1996	0.210	815	153,006	-22.6%
1993-1997	0.200	777	138,508	-11.0%
1994-1998	0.162	687	99,241	20.5%
1995-1999	0.195	711	123,581	1.0%
1996-2000	0.221	684	134,986	-8.1%
1997-2001	0.249	675	149,927	-20.1%
1998-2008	0.275	684	167,987	-34.6%
1999-2003	0.271	611	148,151	-18.7%
2000-2004	0.246	590	129,533	-3.8%
2001-2005	0.203	552	100,347	19.6%
2002-2006	0.158	492	69,482	44.3%
2003-2007	0.118	461	48,448	61.2%
2004-2008	0.102	627	56,951	54.4%
2005-2009	0.095	673	57,272	54.1%
2006-2010	0.085	698	53,127	57.4%
2007-2011	0.077	849	58,493	53.1%
2008-2012	0.065	823	47,682	61.8%
2009-2013	0.068	716	43,412	65.2%
2010-2014	0.065	623	35,998	71.2%
2011-2015	0.068	778	47,254	62.1%
2012-2016	0.062	690	38,292	69.3%
2013-2017	0.065	761	44,029	64.7%
2014-2018	0.061	776	42,044	66.3%
2015-2019	0.065	988	57,100	54.3%
2016-2020	0.063	939	52,558	57.9%
2017-2021	0.062	1045	57,816	53.7%
2018-2022	0.060	1072	57,599	53.9%
2019-2023	0.057	1074	54,256	56.5%

NOTES : Flow & Water quality data provided by USGS Oklahoma District

* WQ data from 1999 to the present also includes data routinely collected by the OWRB

* Values represent data that is routinely collected and excludes targeted high flow events.