

Table 2. - Historical and Recent Data on Nitrogen Concentrations in the Mississippi River Basin (Results in milligrams per liter as N).

Location	Number of Samples	Organic N			Inorganic N			Total N ²
		Total	DON ¹	PON ¹	Nitrate-N	NH ₄ -N	DIN	
Lower Illinois River								
1897-1902	weekly	1.01	0.59	0.42	1.25	0.38	1.63	2.64
1980-98	189	1.22	0.45	0.60	4.09	0.14	4.23	5.46
Upper Mississippi River near Grafton (below Illinois R. & above Missouri R.)								
1899-1900	70	1.10	0.48	0.62	0.59	0.13	0.72	1.82
1980-98	120	1.27	0.81	0.63	2.63	0.11	2.74	4.01
Lower Missouri River								
1899-1900	63	1.83	0.30	1.53	0.51	0.06	0.57	2.40
1980-98	186	1.03	0.51	0.69	1.23	0.05	1.28	2.24
Lower Mississippi								
1905-06	52	1.16 ^a	0.40 ^b	0.76 ^c	0.56	0.1 ^d	0.66	1.82
1980-98	104	0.92	0.52	0.38	1.45	0.06	1.51	2.40

¹DON and PON not analyzed on all samples in 1980-98, thus DON + PON does not equal total organic N for this time period.

²Total N calculated as the sum of total organic N + DIN.

^aCalculated as the sum of DON + PON.

^bEstimated from DON concentrations in upper Mississippi River and Lower Missouri River.

^cEstimated as 2 times the average 1980-98 PON concentration.

^dEstimated from NH₄ concentrations in the upper Mississippi and Lower Missouri River.

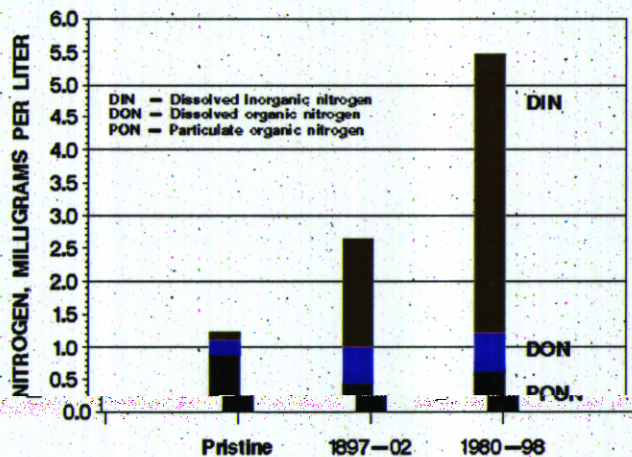


Figure 1. Nitrogen Concentrations in Lower Illinois River