

Biogeochemistry: Online Resource 3

Spatial Patterns in Long-Term Nutrient Concentration and Stoichiometry Trends in Northern Prairie Rivers

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Online Resource 3: Total percent change and actual value change for total nitrogen (TN), total phosphorus (TP), TN:TP, dissolved inorganic nitrogen (DIN), total dissolved phosphorus (TDP), and DIN:TDP for 11 water quality monitoring stations in the Red and Assiniboine River basins. First value reflects total percent change (%); second value reflects the actual change value (mg/L for all concentrations; unitless for ratios). Dotted lines indicate non-significant trends. Indented station names indicate tributaries of the Red and Assiniboine Rivers.

	TN	TP	TN:TP	DIN	TDP	DIN:TDP
<i>Assiniboine River</i>						
1. Kamsack	----	----	6.02%; 0.83	17.27%; 0.0702	-18.52%; -0.016	6.79%; 0.551
2. Welby	16.69%; 0.194	29.92%; 0.0484	-30.36%; -3.08	124.84%; 0.181	23.56%; 0.0224	----
3. Brandon	13.77%; 0.154	30.15%; 0.0428	----	----	----	----
4. Treesbank	----	----	38.78%; 2.93	-25.4%; -0.144	-31.64%; -0.0396	45.81%; 1.65
5. Westhope	----	-37.15%; -0.178	27.96%; 1.95	----	-31.74%; -0.0994	58.27%; 1.07
6. Headingley	----	38.85%; 0.0962	-23.49%; -1.73	----	----	-27.66%; -1.5
<i>Red River</i>						
7. Fargo	-34.54%; -0.572	----	-45.28%; -7.2	-35.4%; -0.298	53.44%; 0.042	-75.15%; -16.3
8. Grand Forks	31.26%; 0.413	79.31%; 0.116	-20.24%; -2.26	60.9%; 0.341	52.60%; 0.0526	----
9. Windy Gates	----	----	-16.25%; -0.871	----	25.84%; 0.05	----
10. Emerson	10.54%; 0.177	12.14%; 0.0334	-25.0%; -2.26	54.68%; 0.324	44.36%; 0.0537	-12.60%; -0.726
11. Selkirk	----	----	----	-11.93%; -0.189	----	----