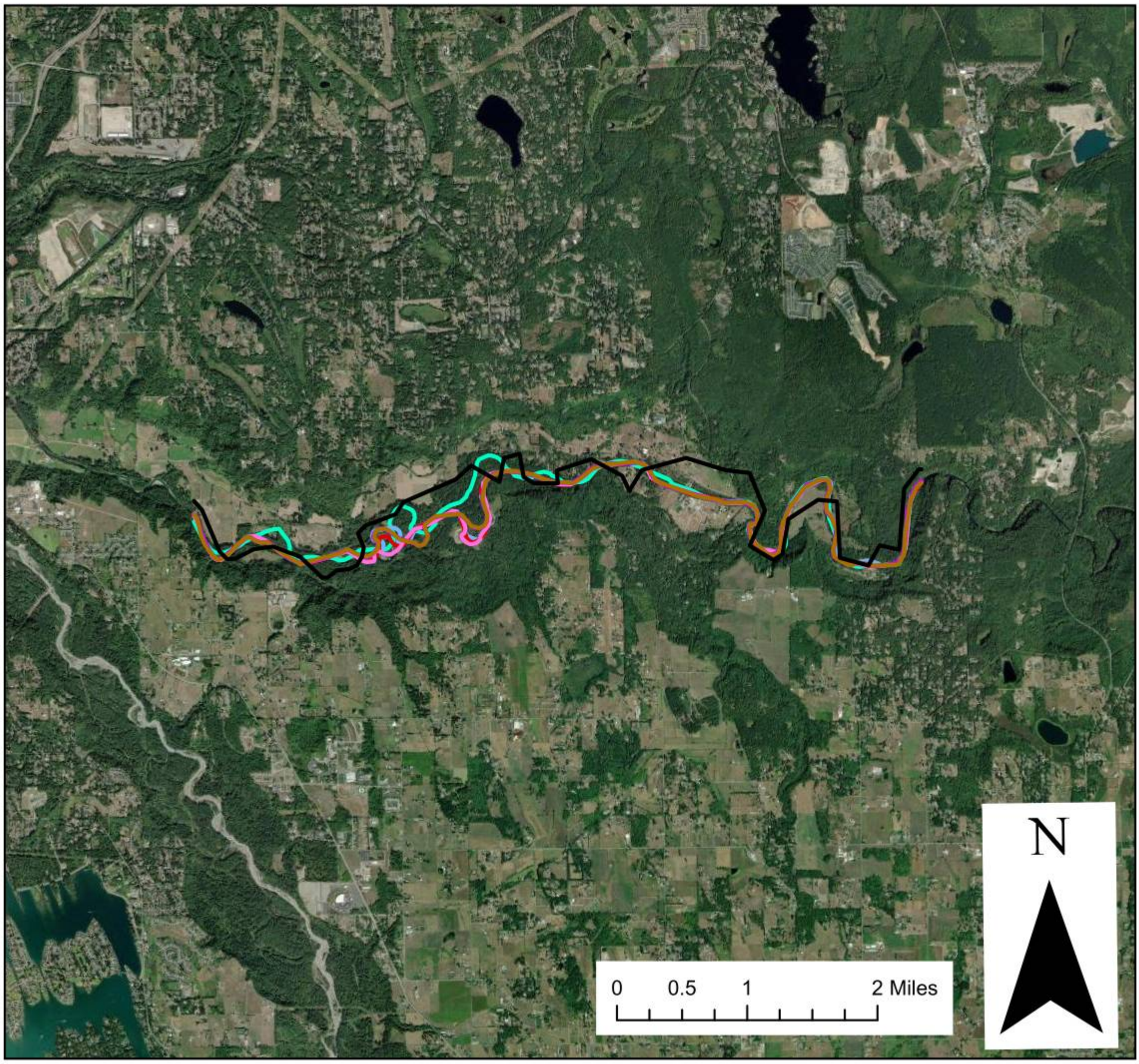
Change In Sinuosity Of Green River Over Time

Patrick Hullman



Legend

Year	Sin	Change_in_Sin
1867	1.615548	
1940	1.576218	-0.0005
1990	1.56922	-0.0001
1994	1.568289	-0.0002
2002	1.614838	0.0058
2006	1.56865	-0.0115
2009	1.574339	0.0019

This map shows the change in shape of the Green River over the years. The Green River is a meandering river that becomes more "bendy" and less bendy overtime.

The sinuosity of the river is measured by the total length of the river in a given year divided by the straight length from the starting point to the end point of the river.

The change in sinuosity is the difference of (sinuosity of a given recorded year - the sinuosity of the previous recorded year) divided by the number of years that have passed between the recording of both respective datapoints. It essentially measures how quickly the river was changing shape per year in the timeframe between the time that the two datapoints were recorded.

In more colloquial terms, it measures the river's rate of "meandering" per year.

Sources: WAGDA, USGS, Puget Sound River History Project at the University of Washington