

1077-G1-1091      **Mike Weimerskirch\*** ([weimer17@gmail.com](mailto:weimer17@gmail.com)), Minneapolis, MN 55407. *An Adjustment to the Colley Matrix Method.*

The Colley Matrix Method is one of six computer ranking systems used by the NCAA Bowl Championship Series (BCS) to help determine which two college football teams should play for the National Championship. The Colley Matrix relies on some basic linear algebra and produces good results, yet has its shortcomings. Most notably is the assumed transitivity of team strength, that if Team A beats Team B, and Team B beats Team C, then Team A will beat Team C. An adjustment to the Colley Matrix, allowing for upsets, using some simple probability theory is discussed. (Received September 16, 2011)