Writing team members of this proposal included Patrick Carr (Chair: North Dakota State University), Cindy Cambardella (USDA-ARS National Soil Tilth Laboratory), Craig Cogger (Washington State University), Kathleen Delate (Iowa State University), Steven Mirsky (USDA-ARS Sustainable Agriculture Systems Laboratory), and Xin Zhao (University of Florida). Writing team members wish to thank Tom Bewick for assistance and encouragement in developing this proposal.