

Runoff Phosphorus Load Reductions in an Agricultural Watershed



Laura Ward Good, Soil Science, University of Wisconsin
Pat Sutter, Curt Diehl, and Duane Wagner, Dane County Land Conservation; Adam Dowling, NRCS;
Kim Meyer and Jim Leverich, UW Extension; Faith Fitzpatrick and Rebecca Carvin, US Geological
Survey; Jasmeet Lamba, John Panuska, K.G. Karthikeyan, Anita Thompson, UW Biological
Systems Engineering; Steve Richter, The Nature Conservancy

2006

2007

2008

2009

2010

2011

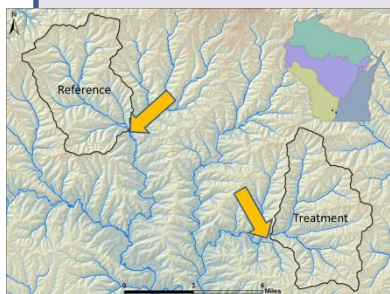
2012

2013

2014

2015

Stream monitoring, sediment and P budgeting



Partners: US Geological Survey, University Wisconsin, WI Department of Natural Resources, The Nature Conservancy
 Additional funding: USDA-NIFA

Inventory and Assessment



Partners: Dane County Land Conservation Department and Univ. of Wisconsin
 Additional funding: The Nature Conservancy

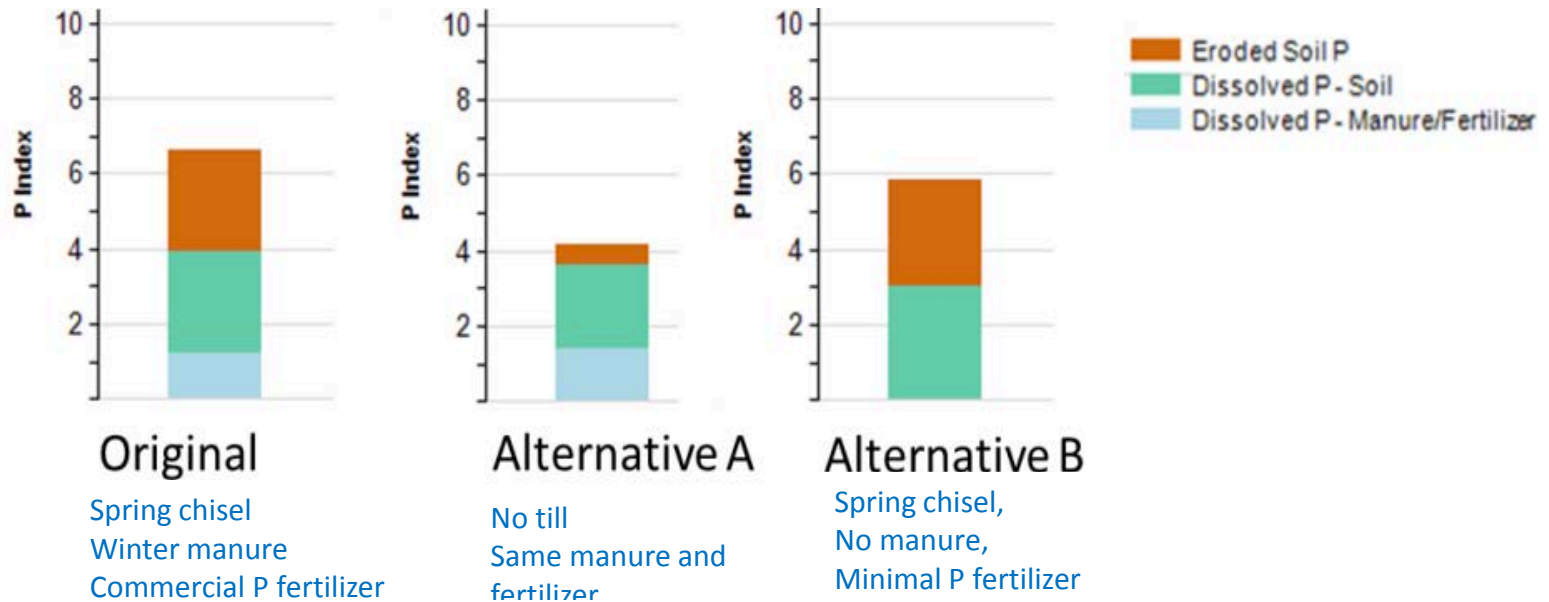


Implementation

Partners: Producers, Dane County Land Conservation Department, NRCS, UW-Extension
 Practice funding: NRCS, The Nature Conservancy

Assessing management alternatives for a high P loss f with the P Index

Flat field (1% slope) in continuous corn silage with excessively high soil test P (200 ppm)



Focused implementation worked!

Farmers responded



Photo: L. Betts



Water quality improved

2013-2014

37% reduction in event load phosphorus