

TerrainLogic Management Comparison Report

Burleigh County Managed Field - Spring Tillage vs No-Till Soybeans

The same field, soil, climate, slope, and analysis period are used for both alternatives. Only the management is changed, so the differences below represent the modeled effect of switching managements.

Current versus proposed

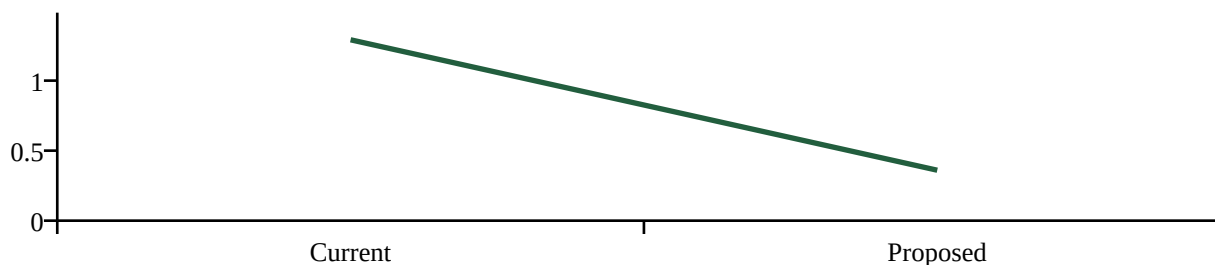
Alternative	Management	A (t/ac/yr)	C	P	PLU	SCI	N balance	P balance
Current management	soybeans; wr, ST, z1	1.2915	0.1159	1.0000	0.6010	0.380	-81.40	-10.23
Proposed management	soybeans; wr, NT z1	0.3603	0.0428	1.0000	0.3142	0.463	-81.40	-10.23

What changes if the proposed management is adopted

Modeled annual soil loss shows a **decrease** of **0.9312 ton/ac/yr** (72.1%).

Outcome	Current	Proposed	Change after switch
Annual soil loss	1.2915 t/ac/yr	0.3603 t/ac/yr	-0.9312 t/ac/yr
C factor	0.1159	0.0428	-0.0731
P factor	1.0000	1.0000	+0.0000
PLU	0.6010	0.3142	-0.2869
SCI	0.380	0.463	+0.083
N balance	-81.40 lb/ac	-81.40 lb/ac	+0.00 lb/ac
P balance	-10.23 lb/ac	-10.23 lb/ac	+0.00 lb/ac

Annual soil loss by management (ton/ac/yr)



Interpretation

This is a controlled management comparison, not a comparison of different years or different fields. Use it to evaluate the proposed management before authoring it into field history. It is not an optimization or a substitute for site-specific conservation planning and engineering review.