LOW SOIL PRODUCTIVITY RATING SOILS DATA & RECOMMENDATIONS

Low soil productivity rating (SPR) soils in central Illinois continue to indicate 1-pass tillage as the most profitable system. The table below shows an increase of \$39 per acre for soybeans grown in low SPR soils when farmers forgo additional tillage passes.

This is a case where farmers should consider whether an extra pass over the field will pay for itself before committing to an extra pass.

LOW SPR TILLAGE DATA

Economic returns resulting from various tillage strategies for soybean production in central Illinois from 2015-2019. Low SPR soils (<136 soil productivity index).

2015-2019 SOYBEAN	NO-TILL	1-PASS LIGHT	2-PASS LIGHT	2-PASS MODERATE	2+ TILLAGE PASSES
LOW SPR SOILS					
# fields	493	121	123	120	175
Yield per acre	61	64	61	62	61
GROSS REVENUE	\$562	\$590	\$564	\$573	\$560
TOTAL DIRECT COSTS*	\$141	\$141	\$115	\$136	\$129
Field Work	\$0	\$11	\$22	\$25	\$40
Other power costs**	\$71	\$68	\$61	\$65	\$63
TOTAL POWER COSTS	\$71	\$79	\$83	\$90	\$103
OVERHEAD COSTS	\$30	\$30	\$30	\$30	\$30
TOTAL NON-LAND COSTS	\$246	\$253	\$231	\$257	\$264
OPERATOR & LAND RETURN	\$316	\$336	\$334	\$316	\$297

NoTill=No tillage; 1Pass Light=1 pass w/ low disturbance tillage; 2-Pass Light=2 passes w/ low disturbance tillage; 2-Pass Medium=2 passes (1 low disturbance+1 high disturbance); 2+ Pass=more than 2 tillage passes, any intensity level

