

D Scavia *et al.* – Supporting Information

WebTable 7. The influence of bundled scenarios on total crop yields for the Maumee watershed, taking into account cropland taken out of row crop production

#	Bundle name	Total crop yields for the watershed (t)				Percent change from baseline		
		corn	soybean	wheat	switchgrass	corn	soybean	wheat
0	Baseline scenario	3,822,897	1,594,176	584,179	0	--	--	--
1	No Point Source Discharges	3,822,897	1,594,176	584,179	0	0%	0%	0%
2a	Cropland conversion to grassland at 10% targeted adoption	3,500,978	1,439,110	525,596	1,081,010	-8%	-10%	-10%
2b	Cropland conversion to grassland at 25% targeted adoption	2,970,569	1,199,566	436,864	2,738,766	-22%	-25%	-25%
2c	Cropland conversion to grassland at 50% targeted adoption	1,984,108	796,573	291,240	5,551,490	-48%	-50%	-50%
3	In-field practices at 25% random adoption	3,826,504	1,594,108	584,256	0	0%	0%	0%
4	Nutrient management at 25% random adoption	3,819,707	1,594,185	583,452	0	0%	0%	0%
5	Nutrient management at 100% adoption	3,806,474	1,594,074	579,303	0	0%	0%	-1%
6	Commonly recommended practices at 100% random adoption	3,799,436	1,586,288	578,981	0	-1%	0%	-1%
7	Continuous no-tillage and subsurface placement of P fertilizer at 50% random adoption	3,820,745	1,594,389	583,227	0	0%	0%	0%
8	Series of practices at 50% targeted adoption	3,829,237	1,575,361	570,861	0	0%	-1%	-2%
9	Series of practices at 50% random adoption	3,820,000	1,577,393	578,870	0	0%	-1%	-1%
10	Diversified rotation at 50% random adoption	NA	NA	NA	0	NA	NA	NA
11	Wetlands and buffer strips at 25% targeted adoption	3,783,392	1,577,703	578,142	0	-1%	-1%	-1%

Notes: The diversified rotation has little influence on crop yields but is marked *NA* because each model implemented the crop rotation differently, some with double-cropped wheat and soybeans, and results are not easy to interpret. Note that cropland area in the Maumee watershed is estimated at 1,246,800 hectares by extracting “cultivated cropland” in the NLCD (2011) dataset within the Maumee watershed boundaries. No percent change is given for switchgrass because it was not present in the baseline. Results are the average of the five SWAT models from 2005 to 2014.

WebReference

National Land Cover Database (NLCD) 2006 (2011 Edition); www.mrlc.gov/nlcd06_data.php.