

2017

## Transect Survey

## Soybean Tillage

HUC8 Watershed #	Name	Total Transects	Avg. Soil Loss (ton/ac)	Avg. Soil Loss if all fields Conventionally Tilled (ton/ac)	No Till			Mulch Till			Reduced Till			Conventional Tillage		
					No.	%	Avg. Soil Loss (ton/ac)	No.	%	Avg. Soil Loss (ton/ac)	No.	%	Avg. Soil Loss (ton/ac)	No.	%	Avg. Soil Loss (ton/ac)
05120109	Vermilion (Wabash)	481	0.961	2.251	120	24.9%	0.176	157	32.6%	0.552	120	24.9%	1.096	84	17.5%	2.656
05120112	Embarras	1485	1.757	3.185	271	18.2%	0.354	272	18.3%	1.003	425	28.6%	1.747	517	34.8%	2.896
05120114	Little Wabash	1343	2.202	4.226	405	30.2%	0.871	254	18.9%	1.246	168	12.5%	2.171	516	38.4%	3.728
07080104	Mississippi/North Central	621	1.316	5.648	362	58.3%	0.757	172	27.7%	1.783	55	8.9%	2.220	32	5.2%	3.577
07090005	Lower Rock	574	1.511	4.534	195	34.0%	0.842	238	41.5%	1.571	92	16.0%	2.201	49	8.5%	2.587
07130001	Illinois-Senachwine	579	1.091	2.731	223	38.5%	0.667	207	35.8%	0.927	94	16.2%	1.603	55	9.5%	2.556
07130002	Vermilion (Illinois)	346	0.892	2.279	129	37.3%	0.207	96	27.7%	0.656	57	16.5%	1.089	64	18.5%	2.450
07140106	Big Muddy	974	3.813	9.368	417	42.8%	2.063	258	26.5%	2.838	160	16.4%	4.982	139	14.3%	9.527
05120108	Little Vermilion	52	1.183	2.277	5	9.6%	0.134	20	38.5%	0.580	14	26.9%	1.353	13	25.0%	2.329
05120111	Middle Wabash-Busseron	364	1.865	4.004	101	27.7%	0.375	62	17.0%	1.065	91	25.0%	2.144	110	30.2%	3.454
05120113	Lower Wabash	501	2.161	6.323	248	49.5%	1.106	98	19.6%	1.977	70	14.0%	3.028	85	17.0%	4.736
05120115	Skillet	453	2.758	5.867	169	37.3%	1.536	66	14.6%	1.801	60	13.2%	3.483	158	34.9%	4.190
05140203	Lower Ohio-Bay	95	2.674	9.025	59	62.1%	1.052	6	6.3%	1.699	2	2.1%	8.961	28	29.5%	5.853
05140204	Saline	474	3.111	6.515	160	33.8%	1.440	22	4.6%	2.215	165	34.8%	3.610	127	26.8%	4.723
05140206	Lower Ohio	275	2.911	9.648	199	72.4%	1.424	4	1.5%	2.262	9	3.3%	7.510	63	22.9%	6.992
07060005	Apple-Plum	137	2.330	9.218	81	59.1%	1.371	27	19.7%	2.436	14	10.2%	4.725	15	10.9%	5.078
07080101	Copperas-Duck	170	1.591	6.300	101	59.4%	1.254	49	28.8%	1.959	14	8.2%	2.523	6	3.5%	2.089
07090002	Middle Rock	0	NA	NA	0	0.0%	NA	0	0.0%	NA	0	0.0%	NA	0	0.0%	NA
07090003	Pecatonica	306	1.613	4.464	119	38.9%	0.574	102	33.3%	1.678	54	17.6%	2.164	31	10.1%	4.425
07090004	Sugar	32	1.361	5.014	13	40.6%	0.742	15	46.9%	1.570	4	12.5%	2.594	0	0.0%	NA
07090006	Kishwaukee	496	1.384	2.851	135	27.2%	0.411	111	22.4%	1.099	141	28.4%	1.547	109	22.0%	2.669
07090007	Greene	287	1.755	4.828	58	20.2%	0.682	164	57.1%	1.293	34	11.8%	2.646	31	10.8%	5.226
07110001	Bear-Wyaconda	205	1.367	4.651	78	38.0%	0.550	80	39.0%	1.334	35	17.1%	2.277	12	5.9%	4.241
07110004	The Sny	273	2.138	6.628	115	42.1%	0.789	85	31.1%	2.137	52	19.0%	3.387	21	7.7%	6.439
07110009	Perdue-Piasa	77	1.821	7.212	42	54.5%	1.243	18	23.4%	1.783	9	11.7%	2.383	8	10.4%	4.308
07120001	Kankakee	329	0.557	1.560	102	31.0%	0.167	163	49.5%	0.582	33	10.0%	1.081	31	9.4%	1.151
07120002	Iroquois	280	0.716	1.710	73	26.1%	0.132	94	33.6%	0.466	65	23.2%	0.774	48	17.1%	2.016
07120003	Chicago	14	1.092	2.158	0	0.0%	NA	10	71.4%	0.454	4	28.6%	2.685	0	0.0%	NA
07120004	Des Plaines	40	0.480	1.558	7	17.5%	0.166	29	72.5%	0.492	4	10.0%	0.951	0	0.0%	NA
07120005	Upper Illinois	460	0.816	1.884	188	40.9%	0.197	114	24.8%	0.604	105	22.8%	1.270	53	11.5%	2.567
07120006	Upper Fox	40	3.130	6.334	9	22.5%	0.482	11	27.5%	1.977	13	32.5%	4.265	7	17.5%	6.238
07120007	Lower Fox	242	1.093	2.501	73	30.2%	0.351	53	21.9%	0.993	71	29.3%	1.368	45	18.6%	1.982
07130003	Illinois_Lake Chaute	607	1.718	4.458	236	38.9%	0.561	175	28.8%	1.280	112	18.5%	2.051	84	13.8%	5.438

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07130004	Mackinaw	475	1.101	3.527	185	38.9%	0.491	169	35.6%	0.906	87	18.3%	1.849	34	7.2%	3.477
07130005	Spoon	722	1.223	5.300	390	54.0%	0.770	227	31.4%	1.396	95	13.2%	2.442	10	1.4%	3.333
07130006	Upper Sangamon	710	1.346	3.154	113	15.9%	0.377	293	41.3%	0.840	224	31.5%	1.672	80	11.3%	3.651
07130007	South Fork Sangamon	354	1.876	3.033	27	7.6%	0.722	57	16.1%	0.869	163	46.0%	1.547	107	30.2%	3.206
07130008	Lower Sangamon	416	1.833	5.538	148	35.6%	0.901	165	39.7%	1.786	62	14.9%	2.340	41	9.9%	4.624
07130009	Salt	850	1.246	3.927	331	38.9%	0.556	304	35.8%	1.003	148	17.4%	2.105	67	7.9%	3.859
07130010	LaMoine	599	2.310	5.344	216	36.1%	0.489	147	24.5%	1.156	134	22.4%	3.305	102	17.0%	6.526
07130011	Lower Illinois	985	1.748	5.678	498	50.6%	0.716	241	24.5%	1.472	121	12.3%	2.727	125	12.7%	5.442
07130012	Macoupin	504	1.724	4.004	149	29.6%	0.625	138	27.4%	1.494	99	19.6%	1.774	118	23.4%	3.339
07140101	Cahokia-Joachim	174	5.786	8.814	34	19.5%	3.024	31	17.8%	3.124	32	18.4%	5.923	77	44.3%	8.021
07140105	Mississippi-Cape Girardeau	182	3.430	9.533	142	78.0%	2.960	9	4.9%	2.509	15	8.2%	4.937	16	8.8%	6.710
07140108	Cache	210	5.041	13.652	124	59.0%	3.050	12	5.7%	3.784	9	4.3%	7.272	65	31.0%	8.761
07140201	Upper Kaskaskia	806	1.978	2.898	84	10.4%	0.255	205	25.4%	0.776	238	29.5%	1.985	279	34.6%	3.374
07140202	Middle Kaskaskia	715	1.751	2.686	145	20.3%	0.503	133	18.6%	1.078	94	13.1%	1.583	343	48.0%	2.586
07140203	Shoal	336	1.965	3.504	52	15.5%	0.509	106	31.5%	1.286	48	14.3%	1.808	130	38.7%	3.159
07140204	Lower Kaskaskia	517	3.790	6.719	203	39.3%	1.545	89	17.2%	1.662	84	16.2%	3.002	141	27.3%	8.834
<b>Total</b>		<b>21167</b>	<b>1.944</b>	<b>4.969</b>	<b>7334</b>	<b>34.96%</b>	<b>0.402</b>	<b>5558</b>	<b>27.76%</b>	<b>0.695</b>	<b>3999</b>	<b>17.77%</b>	<b>1.322</b>	<b>4276</b>	<b>17.46%</b>	<b>1.950</b>