

2017

## Transect Survey

Corn 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)	518	3.507302	3.739020498	5	1.0%	0.281656	15	2.9%	0.7508243	45	8.7%	2.5956053	453	87.5%	3.7247447
05120112	Embarras	1282	3.840537	4.323220484	48	3.7%	0.87855	39	3.0%	1.4817369	146	11.4%	2.9788188	1049	81.8%	4.183701
05120114	Little Wabash	1091	4.942053	6.61322117	126	11.5%	1.9159462	69	6.3%	2.3921526	103	9.4%	5.62536	793	72.7%	5.5559898
07080104	Mississippi/North C	873	3.653615	7.296431488	242	27.7%	1.6139667	178	20.4%	2.6559524	342	39.2%	4.5568925	111	12.7%	6.9172035
07090005	Lower Rock	1114	3.473574	5.61906807	119	10.7%	2.6680207	367	32.9%	2.0452026	356	32.0%	3.6515499	272	24.4%	5.5203155
07130001	Lower Illinois-Senac	834	2.069131	3.557086237	114	13.7%	1.175346	251	30.1%	1.2547961	308	36.9%	2.4016062	161	19.3%	3.3355132
07130002	Vermilion (Illinois)	381	3.301378	3.762457929	30	7.9%	0.4274336	14	3.7%	0.7416986	42	11.0%	2.20561	295	77.4%	3.8711276
07140106	Big Muddy	454	6.373746	11.60184537	80	17.6%	2.771351	103	22.7%	3.8341835	103	22.7%	6.5541118	168	37.0%	9.5355831
05120108	Little Vermilion	56	2.901542	3.125984286	0	0.0%	NA	3	5.4%	0.53856	7	12.5%	1.6509914	46	82.1%	3.2459504
05120111	Middle Wabash-Bu	394	4.543942	5.121744099	15	3.8%	0.52353	21	5.3%	1.230475	49	12.4%	2.9707286	309	78.4%	5.2137688
05120113	Lower Wabash	487	6.597875	9.819512094	62	12.7%	2.3494182	58	11.9%	3.0783137	126	25.9%	5.7156493	240	49.3%	8.9636646
05120115	Skillet	292	6.581234	9.212410753	51	17.5%	2.0404615	25	8.6%	3.8311056	25	8.6%	6.515638	191	65.4%	8.1622414
05140203	Lower Ohio-Bay	47	7.967264	16.25598894	22	46.8%	3.2099845	6	12.8%	10.233275	1	2.1%	20.6793	18	38.3%	12.320154
05140204	Saline	450	6.152603	8.610913227	101	22.4%	3.4423727	21	4.7%	6.9619629	117	26.0%	5.2070465	211	46.9%	7.8936788
05140206	Lower Ohio	150	6.01071	11.10274639	66	44.0%	2.7418265	6	4.0%	6.1613475	7	4.7%	9.7018071	71	47.3%	8.6727498
07060005	Apple-Plum	431	3.634978	9.088057531	125	29.0%	2.1402488	163	37.8%	2.7120793	106	24.6%	5.209252	37	8.6%	8.2403991
07080101	Copperas-Duck	292	4.305392	7.518633036	66	22.6%	3.848396	84	28.8%	2.792902	98	33.6%	4.7972191	44	15.1%	6.7829348
07090002	Middle Rock	2	4.71801	4.71801	0	0.0%	NA	0	0.0%	NA	0	0.0%	NA	2	0.0%	4.71801
07090003	Pecatonica	521	3.35832	5.809257138	120	23.0%	2.073404	131	25.1%	2.059973	131	25.1%	3.3783095	139	26.7%	5.672382
07090004	Sugar	54	2.704326	5.927814444	23	42.6%	1.4006739	11	20.4%	2.4606573	16	29.6%	4.0569375	4	7.4%	5.4599625
07090006	Kishwaukee	645	2.927152	3.663081933	52	8.1%	1.071949	84	13.0%	1.3227073	134	20.8%	2.1232955	375	58.1%	3.8310471
07090007	Greene	512	2.024679	4.130229018	78	15.2%	1.301226	164	32.0%	1.1238444	111	21.7%	2.7567971	159	31.1%	2.7976435
07110001	Bear-Wyaconda	240	4.13163	7.52720775	29	12.1%	3.4482972	40	16.7%	1.8755316	137	57.1%	4.706008	34	14.2%	5.0542994
07110004	The Sny	294	4.905457	8.906989235	35	11.9%	1.1895225	57	19.4%	2.0899093	171	58.2%	5.4051785	31	10.5%	11.521315
07110009	Perudue-Piasa	92	4.957458	9.772554484	23	25.0%	1.7828315	13	14.1%	2.0509192	18	19.6%	5.5066667	38	41.3%	7.6131332
07120001	Kankakee	306	1.271539	1.98069919	29	9.5%	0.3416717	106	34.6%	1.1102524	44	14.4%	1.4512793	127	41.5%	1.5562154
07120002	Iroquois	326	2.482411	2.735095656	21	6.4%	0.3011124	16	4.9%	0.583984	54	16.6%	1.1004504	235	72.1%	3.1241477
07120003	Chicago	9	2.044688	4.769794333	0	0.0%	NA	6	66.7%	2.3720115	3	33.3%	1.39004	0	0.0%	NA
07120004	Des Plaines	33	1.074259	2.138141394	2	6.1%	0.31806	27	81.8%	0.8073961	2	6.1%	1.131345	2	6.1%	5.37602
07120005	Upper Illinois	480	1.955594	2.368619333	36	7.5%	0.4560889	35	7.3%	0.7463177	97	20.2%	1.465953	312	65.0%	2.4164985
07120006	Upper Fox	63	6.15136	8.943146667	10	15.9%	1.402848	11	17.5%	3.5380364	13	20.6%	4.5436062	29	46.0%	9.5007559
07120007	Lower Fox	354	2.776316	3.30374391	19	5.4%	0.5686738	32	9.0%	1.053845	80	22.6%	1.7554471	223	63.0%	3.5778129
07130003	Illinois_Lake Chaut	711	3.786318	6.250977159	112	15.8%	0.8293469	127	17.9%	1.2899939	284	39.9%	3.625695	188	26.4%	7.4769066

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07130004	Mackinaw	501	3.147366	5.067456028	58	11.6%	0.9458829	94	18.8%	1.0221431	174	34.7%	3.2660634	175	34.9%	4.9005307
07130005	Spoon	908	3.585929	7.625138122	168	18.5%	1.3069339	215	23.7%	1.7344159	495	54.5%	4.6989602	30	3.3%	11.252465
07130006	Upper Sangamon	749	3.872361	4.543432243	24	3.2%	0.7249229	67	8.9%	0.8232366	145	19.4%	2.6066576	513	68.5%	4.7755907
07130007	South Fork Sangarr	389	3.521666	3.879794087	6	1.5%	0.8319208	13	3.3%	1.2007558	45	11.6%	2.7068067	325	83.5%	3.7769857
07130008	Lower Sangamon	474	2.967452	6.134883797	141	29.7%	2.2596677	103	21.7%	1.4899456	114	24.1%	3.1824742	116	24.5%	4.9283845
07130009	Salt	842	3.175723	5.39347084	126	15.0%	0.9785167	144	17.1%	1.0375094	338	40.1%	3.6804144	234	27.8%	4.9456604
07130010	LaMoine	644	5.254556	6.747388155	52	8.1%	1.0514838	61	9.5%	1.7982856	196	30.4%	3.5601974	335	52.0%	7.5276505
07130011	Lower Illinois	1151	4.225276	8.206601607	311	27.0%	2.4398886	134	11.6%	2.5311112	376	32.7%	4.4478167	330	28.7%	6.3422418
07130012	Macoupin	623	4.536479	5.673388467	30	4.8%	1.7793485	55	8.8%	1.8293809	117	18.8%	3.7942804	421	67.6%	5.2928724
07140101	Cahokia-Joachim	154	6.024394	8.403367143	11	7.1%	6.3262382	20	13.0%	2.2887718	34	22.1%	4.288175	89	57.8%	7.489827
07140105	Mississippi-Cape G	114	7.060262	16.6316727	37	32.5%	6.2535238	8	7.0%	4.724225	43	37.7%	6.9920298	26	22.8%	9.0399388
07140108	Cache	91	14.02526	19.57443385	30	33.0%	12.853035	0	0.0%	NA	6	6.6%	11.236925	55	0.0%	14.968832
07140201	Upper Kaskaskia	874	3.351209	3.779258553	5	0.6%	0.78204	36	4.1%	1.3233257	152	17.4%	3.1460003	681	77.9%	3.5230758
07140202	Middle Kaskaskia	609	4.273353	4.68192509	10	1.6%	0.641022	29	4.8%	1.4903207	31	5.1%	3.8179581	539	88.5%	4.5166708
07140203	Shoal	362	3.588814	5.362347956	5	0.014	0.535344	94	0.26	1.6001072	71	0.196	2.972847	192	0.53	4.8697495
07140204	Lower Kaskaskia	453	4.668175	6.187046225	17	3.8%	2.1645318	47	10.4%	1.3257191	125	27.6%	3.5474069	264	58.3%	5.95512



<b>Total</b>	<b>22726</b>	<b>4.25</b>	<b>6.68</b>	<b>2892</b>	<b>14.21%</b>	<b>0.90</b>	<b>3403</b>	<b>16.54%</b>	<b>1.03</b>	<b>5738</b>	<b>23.06%</b>	<b>2.05</b>	<b>10692</b>	<b>42.91%</b>	<b>2.96</b>
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