

2017

Transect Survey

Corn Tillage

FIPS COUNTY #	County	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)
1	Adams	363	4.755266	8.421239405	8	2.2%	1.5012	56	15.4%	2.0930169	282	77.7%	5.0588343	17	4.7%	10.020685
3	Alexander	21	7.670017	7.74858	1	4.8%	3.17275	0	0.0%	NA	0	0.0%	NA	20	95.2%	7.89488
5	Bond	186	2.167369	6.16898129	3	1.6%	0.3724	122	65.6%	1.5521443	60	32.3%	3.3956167	1	0.5%	8.9148
7	Boone	224	3.598526	4.006997321	7	3.1%	0.9461871	24	10.7%	1.1219738	15	6.7%	1.779208	178	79.5%	4.1900617
9	Brown	208	6.30617	8.480281154	32	15.4%	0.9862763	12	5.8%	2.25594	43	20.7%	4.0198605	121	58.2%	8.9272502
11	Bureau	338	1.833194	3.05949226	7	2.1%	0.4824686	130	38.5%	0.922049	145	42.9%	2.1072249	56	16.6%	3.4076457
13	Calhoun	125	5.230247	10.75974864	40	32.0%	1.5582185	13	10.4%	4.2622846	17	13.6%	3.4094494	55	44.0%	8.6923964
15	Carroll	389	3.799363	7.026258141	44	11.3%	3.2282343	151	38.8%	2.6612217	193	49.6%	4.8118614	1	0.3%	5.37602
17	Cass	308	1.956868	7.064299432	150	48.7%	1.8711747	107	34.7%	1.2737171	39	12.7%	3.633691	12	3.9%	3.6697792
19	Champaign	289	3.178141	3.407172588	1	0.3%	0.14144	14	4.8%	0.5408817	33	11.4%	2.0032697	241	83.4%	3.504818
21	Christian	252	3.864939	4.074813571	2	0.8%	0.1944	1	0.4%	0.52416	23	9.1%	3.2188148	226	89.7%	3.9779602
23	Clark	217	3.736376	3.736376129	0	0.0%	NA	0	0.0%	NA	0	0.0%	NA	217	100.0%	3.7363761
25	Clay	237	6.163768	7.437481013	11	4.6%	0.9572195	25	10.5%	3.1453812	13	5.5%	5.6298	188	79.3%	6.9067112
27	Clinton	302	4.694529	4.860211921	5	1.7%	0.45224	5	1.7%	1.63264	4	1.3%	3.36	288	95.4%	4.8398729
29	Coles	272	4.274786	4.392172518	0	0.0%	NA	3	1.1%	1.0703	15	5.5%	2.4898533	254	93.4%	4.4180438
31	Cook	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
33	Crawford	269	7.263572	7.765756691	0	0.0%	NA	14	5.2%	1.5130754	30	11.2%	3.8116228	225	83.6%	8.0816403
35	Cumberland	248	3.353141	3.523890484	7	2.8%	0.2819571	5	2.0%	1.02924	5	2.0%	3.59352	231	93.1%	3.4913049
37	DeKalb	274	3.238818	4.052066569	9	3.3%	1.2011122	50	18.2%	1.3717438	82	29.9%	2.1864262	133	48.5%	4.727458
39	DeWitt	260	2.420017	4.237653096	27	10.4%	0.4049148	69	26.5%	0.6248264	100	38.5%	3.0469678	64	24.6%	4.2259676
41	Douglas	259	2.736222	2.84077027	3	1.2%	0.7994	2	0.8%	1.52075	20	7.7%	1.31271	234	90.3%	2.893109
45	Edgar	212	4.340842	5.265122642	18	8.5%	0.4374417	14	6.6%	1.276875	43	20.3%	2.9126756	137	64.6%	5.6150602
47	Edwards	193	4.526802	12.16311295	73	37.8%	2.8302411	27	14.0%	4.1147111	76	39.4%	5.6713579	17	8.8%	7.3496941
49	Effingham	228	2.622977	2.688776667	1	0.4%	0.1824	2	0.9%	0.4617	2	0.9%	8.151	223	97.8%	2.6037259
51	Fayette	321	4.600581	4.657427383	3	0.9%	0.9044	1	0.3%	0.6384	1	0.3%	3.724	316	98.4%	4.6509841
53	Ford	327	3.549631	3.774286697	13	4.0%	0.35772	11	3.4%	0.84288	20	6.1%	2.20704	283	86.5%	3.8963485
55	Franklin	137	7.162253	9.238988321	9	6.6%	2.48028	8	5.8%	2.78641	41	29.9%	5.88676	79	57.7%	8.8007296
57	Fulton	300	4.081015	7.4711987	19	6.3%	1.5177796	43	14.3%	1.7405948	233	77.7%	4.7186268	5	1.7%	4.23619
59	Gallatin	197	4.143048	5.996201574	55	27.9%	1.7091875	1	0.5%	0.83248	71	36.0%	4.2643524	70	35.5%	5.979623
61	Greene	334	5.917189	7.019652186	51	15.3%	2.4039009	0	0.0%	NA	11	3.3%	2.1932591	272	81.4%	6.7265306
63	Grundy	237	1.930443	2.358800338	29	12.2%	0.3854566	17	7.2%	0.7495624	28	11.8%	1.68816	163	68.8%	2.3700957
65	Hamilton	167	7.231991	10.46596311	48	28.7%	2.5698905	0	0.0%	NA	2	1.2%	6.50848	117	70.1%	9.1570154
67	Hancock	244	3.377047	6.613228484	50	20.5%	1.93501	32	13.1%	1.3877281	93	38.1%	3.9464683	69	28.3%	4.5771022

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69	Hardin	12	4.371363	10.96183	7	58.3%	2.6312	0	0.0%	NA	0	0.0%	NA	5	41.7%	6.807592
71	Henderson	328	4.651678	8.868857973	71	21.6%	1.7913	73	22.3%	2.9414796	119	36.3%	5.5650671	65	19.8%	8.0245712
73	Henry	347	3.333269	7.367986937	128	36.9%	1.2176562	30	8.6%	2.265021	77	22.2%	4.2932696	112	32.3%	5.3772498
75	Iroquois	228	2.237148	2.597204772	18	7.9%	0.3109796	11	4.8%	0.8008785	48	21.1%	1.3480733	151	66.2%	2.8540069
77	Jackson	70	5.373984	12.00780643	22	31.4%	3.2335159	7	10.0%	3.5739643	28	40.0%	7.1253482	13	18.6%	6.1933846
79	Jasper	270	3.834953	4.403394963	18	6.7%	1.0047833	5	1.9%	1.35432	22	8.1%	2.888	225	83.3%	4.2090827
81	Jefferson	112	7.886961	10.8228075	6	5.4%	1.622145	15	13.4%	3.578092	32	28.6%	7.3273463	59	52.7%	9.9230553
83	Jersey	255	4.349439	9.016809137	65	25.5%	1.9028623	54	21.2%	2.6696548	81	31.8%	5.5416995	55	21.6%	7.1342167
85	JoDaviess	265	3.101584	9.659326732	105	39.6%	1.7817812	117	44.2%	2.4327454	21	7.9%	5.8245782	22	8.3%	10.35843
87	Johnson	25	8.89303	18.7439384	6	24.0%	2.6874208	9	36.0%	6.56214	8	32.0%	14.539744	2	8.0%	15.412005
89	Kane	166	2.645536	3.110300964	16	9.6%	0.4693206	11	6.6%	0.7989545	24	14.5%	1.7450029	115	69.3%	3.312881
91	Kankakee	237	1.158675	1.3344	27	11.4%	0.269843	21	8.9%	0.3146286	28	11.8%	0.7827714	161	67.9%	1.483201
93	Kendall	257	1.866137	2.37855642	7	2.7%	0.2416229	22	8.6%	0.7528068	101	39.3%	1.4321754	127	49.4%	2.4936571
95	Knox	229	2.772317	6.320787371	57	24.9%	1.4378898	93	40.6%	2.3021378	75	32.8%	4.0413207	4	1.7%	8.925765
97	Lake	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
99	LaSalle	237	2.78147	3.024438439	22	9.3%	0.190604	0	0.0%	NA	5	2.1%	1.806828	210	88.6%	3.0761
101	Lawrence	252	4.082607	7.062725238	32	12.7%	1.5849177	32	12.7%	2.1257319	112	44.4%	4.2246805	76	30.2%	5.74884
103	Lee	353	1.707924	2.54127611	3	0.8%	0.4362733	187	53.0%	1.1108746	33	9.3%	1.5976818	130	36.8%	2.624088
105	Livingston	226	3.558291	4.026035774	10	4.4%	0.949014	10	4.4%	0.762102	31	13.7%	2.0757426	175	77.4%	4.1297982
107	Logan	289	2.144923	4.688374256	80	27.7%	0.9297028	53	18.3%	1.0900585	125	43.3%	2.6829734	31	10.7%	4.9148919
109	McDonough	257	6.023213	7.617272778	13	5.1%	2.0106831	24	9.3%	3.51584	94	36.6%	4.5767714	126	49.0%	7.9938895
111	McHenry	198	5.578857	7.419796364	30	15.2%	1.8584	27	13.6%	3.7162578	31	15.7%	3.8340542	110	55.6%	7.5424276
113	McLean	255	6.793367	8.054234353	9	3.5%	2.23072	39	15.3%	3.4814769	73	28.6%	5.9713841	134	52.5%	8.5115176
115	Macon	288	3.449355	4.486534549	20	6.9%	1.0000025	32	11.1%	1.036	82	28.5%	2.5741902	154	53.5%	4.734925
117	Macoupin	231	3.779094	4.389191667	3	1.3%	0.8840417	17	7.4%	0.9082294	51	22.1%	2.4456078	160	69.3%	4.5634542
119	Madison	178	5.269246	6.038325351	1	0.6%	3.584	4	2.2%	2.0335	35	19.7%	5.02012	138	77.5%	5.4384313
121	Marion	158	4.653206	4.957661392	2	1.3%	0.9555	5	3.2%	1.2992	11	7.0%	1.8713864	140	88.6%	5.0443875
123	Marshall	322	2.388447	5.174797391	49	15.2%	1.2362807	112	34.8%	1.2355828	149	46.3%	3.6173181	12	3.7%	2.5946958
125	Mason	317	2.828835	5.0133703	48	15.1%	0.7681771	33	10.4%	1.0281515	207	65.3%	3.4051314	29	9.1%	4.1750655
127	Massac	110	4.685543	9.674595055	58	52.7%	2.1344603	2	1.8%	9.099	5	4.5%	4.22784	45	40.9%	7.8283072
129	Menard	232	3.367477	7.868138793	74	31.9%	1.2175389	49	21.1%	1.4083536	65	28.0%	5.1123854	44	19.0%	6.5873261
131	Mercer	246	3.333076	6.970530801	88	35.8%	2.7645381	31	12.6%	1.8315778	124	50.4%	4.0026826	3	1.2%	7.84856
133	Monroe	121	7.616121	11.06570174	17	14.0%	5.6889253	19	15.7%	2.2535395	24	19.8%	4.49565	61	50.4%	11.051247

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135	Montgomery	208	3.896078	4.280954255	3	1.4%	0.43216	5	2.4%	1.28649	35	16.8%	2.6312286	165	79.3%	4.3064378
137	Morgan	168	3.498805	9.478212857	63	37.5%	3.4476617	21	12.5%	1.8588343	68	40.5%	4.3820629	16	9.5%	2.0988
139	Moultrie	245	2.799135	2.806232143	1	0.4%	0.1512	0	0.0%	NA	0	0.0%	NA	244	99.6%	2.8099872
141	Ogle	356	3.460784	5.208340826	26	7.3%	0.8979448	75	21.1%	2.2202324	146	41.0%	3.0448603	109	30.6%	5.4828013
143	Peoria	264	2.263564	5.597588068	57	21.6%	0.7436486	91	34.5%	1.2594385	84	31.8%	3.5057683	32	12.1%	4.565605
145	Perry	156	4.303265	14.3612559	50	32.1%	3.0034752	80	51.3%	4.1936125	15	9.6%	7.0864053	11	7.1%	7.21368
147	Piatt	310	3.791728	4.022935935	0	0.0%	NA	13	4.2%	0.56134	32	10.3%	2.4494663	265	85.5%	4.1122846
149	Pike	220	4.514497	8.5415943	20	9.1%	1.2155684	62	28.2%	2.4054058	120	54.5%	5.4003967	18	8.2%	9.5386288
151	Pope	42	7.444974	12.82187571	15	35.7%	3.3608827	1	2.4%	22.33875	0	0.0%	NA	26	61.9%	9.2283431
153	Pulaski	50	17.02795	19.8566326	11	22.0%	12.688283	0	0.0%	NA	0	0.0%	NA	39	78.0%	18.25196
155	Putnam	132	2.037024	4.043775515	38	28.8%	1.47288	36	27.3%	1.4153511	48	36.4%	2.646174	10	7.6%	3.49488
157	Randolph	133	6.71654	11.12811808	8	6.0%	3.501905	10	7.5%	3.41814	73	54.9%	5.8095117	42	31.6%	9.6906878
159	Richland	230	6.111444	7.286783739	33	14.3%	1.4681255	15	6.5%	1.800994	1	0.4%	10.33032	181	78.7%	7.291927
161	Rock Island	219	6.357268	9.78572861	52	23.7%	5.3452994	40	18.3%	3.84978	69	31.5%	6.0105516	58	26.5%	9.4063263
163	St Clair	147	4.293011	5.917282041	2	1.4%	0.882	26	17.7%	0.9875631	56	38.1%	3.3227518	63	42.9%	6.6279029
165	Saline	172	6.926792	8.907876233	20	11.6%	6.103185	13	7.6%	8.7622446	43	25.0%	6.5875674	96	55.8%	7.0017695
167	Sangamon	266	3.749076	4.014702632	3	1.1%	0.73395	12	4.5%	0.7396083	15	5.6%	2.2506633	236	88.7%	4.0356654
169	Schuyler	306	8.767808	9.282295327	12	3.9%	1.0446771	0	0.0%	NA	10	3.3%	4.8446475	284	92.8%	9.2322774
171	Scott	205	3.470788	7.81070722	55	26.8%	2.7487165	8	3.9%	2.4056938	121	59.0%	3.9140251	21	10.2%	3.2137848
173	Shelby	410	4.255089	5.35536	3	0.7%	0.55278	31	7.6%	1.6618355	173	42.2%	3.6079335	203	49.5%	5.2573345
175	Stark	334	2.797959	5.118948638	53	15.9%	1.1879066	55	16.5%	1.7607	226	67.7%	3.4279677	0	0.0%	NA
177	Stephenson	368	3.709066	6.28738344	91	24.7%	2.1124592	81	22.0%	2.1480612	71	19.3%	3.5542998	125	34.0%	5.9708354
179	Tazewell	242	2.272235	5.280190165	44	18.2%	1.469708	58	24.0%	1.2569595	139	57.4%	2.9511242	1	0.4%	2.10392
181	Union	64	14.94179	26.91626844	46	71.9%	14.167665	0	0.0%	NA	1	1.6%	16.6944	17	26.6%	16.933381
183	Vermilion	231	3.83337	3.990412208	1	0.4%	0.1326	4	1.7%	0.77588	13	5.6%	2.3782477	213	92.2%	3.996973
185	Wabash	240	8.018223	9.778315625	11	4.6%	1.3766557	25	10.4%	2.836119	42	17.5%	7.2664744	162	67.5%	9.4637985
187	Warren	268	2.120503	5.354570433	82	30.6%	1.3232452	93	34.7%	2.0250766	83	31.0%	2.9848641	10	3.7%	2.371296
189	Washington															
191	Wayne	148	5.325616	7.226716791	22	14.9%	1.4215073	16	10.8%	2.524985	11	7.4%	4.10451	99	66.9%	6.7815015
193	White	194	5.120751	9.642139175	56	28.9%	2.3592938	25	12.9%	3.10506	36	18.6%	5.0337467	77	39.7%	7.8242073
195	Whiteside	308	2.825495	5.084263896	34	11.0%	1.6895294	126	40.9%	2.2447048	90	29.2%	3.0599733	58	18.8%	4.3892745
197	Will	167	1.226309	2.652882731	9	5.4%	0.45012	128	76.6%	1.141195	29	17.4%	1.780997	1	0.6%	3.02064
199	Williamson	40	7.310919	11.18113875	12	30.0%	2.8819125	3	7.5%	0.807525	5	12.5%	8.83233	20	50.0%	10.56348

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201	Winnebago	358	2.732487	4.972749553	90	25.1%	1.9936287	88	24.6%	1.8787217	122	34.1%	3.181186	58	16.2%	4.2305431
203	Woodford	185	2.591538	3.901482973	36	19.5%	0.5606333	24	13.0%	0.5422175	42	22.7%	2.2111336	83	44.9%	4.2574811
Total		22395	4.46	6.90	2897	14.91%	1.70	3368	14.12%	1.96	5680	23.45%	3.82	10450	47.51%	5.90