BIG TURKEY AND LITTLE TURKEY LAKE ENHANCEMENT FEASIBILITY STUDY

Property of
Lake and River Enhancement Section
Division of Fish and Wildlife/IDNR
402 W. Washington Street, W-273
Indianapolis, IN 46204

Prepared for

Big Turkey and Little Turkey Lakes Association
Stroh, Indiana

Prepared by

Harza Engineering Company
Chicago, Illinois

September 1990

HARZA ENGINEERING COMPANY

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Prepared for

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GLOSSARY OF TECHNICAL TERMS

Anoxia	A condition of no oxygen in the water. Often occurs near the bottom of fertile stratified lakes in the summer and under ice in late winter.
Alkalinity	The buffering capacity of water.
Coliform bacteria	A group of microorganisms that is the principal indicator of the suitability of water for domestic or other uses and the sanitary quality of that water.
Epilimnion	Uppermost, warmest, layer of a lake during summertime thermal stratification. The epilimnion extends from the surface to the thermocline.
Eutrophic	Waters with a good supply of nutrients and hence high organic production.
Eutrophication	The process of lake aging, involving physical, chemical, and biological changes associated with nutrient, organic matter, and silt enrichment of a lake. If the process is accelerated by man-made influences, it is frequently termed cultural eutrophication.
Hypolimnion	Lower, cooler layer of a lake during summertime thermal stratification.
Kjeldahl nitrogen	Organic nitrogen plus ammonia nitrogen.
Macrophytes	Rooted and floating aquatic plants, commonly referred to as waterweeds.
Mesotrophic	Waters moderately rich in organic productivity.
Nonpoint source pollution	Pollutants that do not originate from a pipe or single source.
Oligotrophic	Waters with a small supply of nutrients and hence low organic productivity.
Orthophosphorus	A simple form of inorganic phosphorus that is readily available for uptake by plants.

Pheophytin	A product formed by the breakdown of chlorophyll, the primary plant pigment responsible for photosynthesis.
Phytoplankton	Microscopic algae that float freely in open waters.
Fecal streptococci	A group of organisms indicative of fecal pollution from warm blooded animals.
Thermocline	A horizontal plane across a lake at the depth of the most rapid vertical change in temperature and density in a stratified lake; the transition zone between the epilimnion and the hypolimnion.
Wetland	Areas that are unundated or saturated by surface or ground water, with vegetation adapted to living in saturated soil conditions. Generally includes swamps, marshes, fens, bogs, and similar areas.

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

Big and Little Turkey Lakes, like many lakes in northeastern Indiana, are experiencing cultural eutrophication. At these two lakes, this is primarily due to agricultural nonpoint source pollution. This study estimated mean annual phosphorus loadings to Big and Little Turkey Lakes to be 3,900 and 5,100 kg/yr, respectively, the largest source being runoff from croplands in the watershed. These loadings result in lake phosphorus and aquatic plant concentrations indicative of eutrophic lakes.

This study evaluated the feasibility of alternatives for enhancing and protecting the quality of the two lakes. Based upon costs, effectiveness, reliability, and other factors, we recommend that the Lake Association design and construct a series of wetlands, that will essentially function as sediment traps, in the watershed to catch sediment and associated nutrients before they reach the lakes. When these sediment traps have been constructed, the Lake Association should then consider implementing an in-lake restorative process (i.e. phosphorus inactivation).

Six sediment traps upstream of Big Turkey Lake were estimated to trap 5,600 tons or 46% of the sediment loadings to that lake on a mean annual basis. These six traps are estimated to cost about $600,000. Because Little Turkey Lake is downstream of Big Turkey, this investment also benefits Little Turkey Lake. Two additional sediment traps in Little Turkey Lake's watershed were sited to further decrease sediment deposition in that lake. These two additional sediment traps are estimated to cost $254,000. With all eight sediment traps in place, sediment loadings to Little Turkey Lake will be reduced by 1,400 tons, or about 33%, annually.

CHAPTER 1
INTRODUCTION

Chapter 1
INTRODUCTION

Background

In summer of 1989, the Big and Little Turkey Lake Association approached the Indiana Department of Natural Resources (DNR) for technical and financial lake enhancement assistance. The lake association was given a grant under the DNR's "T by 2000" Lake Enhancement Program. The grant funds were used to procure the services of a consulting engineer to perform a lake enhancement feasibility study.

Objectives

The lakeside residents and users of Big and Little Turkey Lakes are concerned about the proliferation of aquatic macrophytes (aquatic weeds) in the lake. In areas where they are abundant, the macrophytes hinder recreational use of the lake by fouling fishing lines and boat propellers, and causing a general aesthetic nuisance. Past weed control programs (i.e. herbicide applications) have been successful but are expensive and represent only a short-term solution. Also, drainage in the basin has been adversely affected by sediment deposition in the lakes at the mouths of tributaries. Residents have also noticed a gradual degradation of water quality in terms of decreased water clarity.

The specific objectives of this lake enhancement feasibility study were:

1. To identify the sources of problems within Big and Little Turkey Lakes and the watershed that contribute to eutrophication and sedimentation in the two lakes,

2. To identify technically feasible measures to restore the ecological integrity and recreational value of Big and Little Turkey Lakes,

3. To recommend appropriate measures from the alternative lake restoration techniques identified, based upon engineering feasibility, cost effectiveness, and environmental compatibility.

Scope of the Study

The feasibility study involved five tasks:

1. Data Acquisition and Review. Existing data on the ecology of the two lakes were collected and reviewed for use in this study.

2. Field Investigations. Water and sediment quality testing was performed; aquatic vegetation in the lakes was surveyed and identified.

3. Assessment of Existing Conditions. A map and tally of watershed land use were prepared; non-point source sediment and phosphorus loadings to the lake were estimated; new lake eutrophication indices were computed.

4. Study of Alternatives. Alternatives were identified and screened. Cost estimates and recommendations were prepared for lake enhancement measures.

5. Report and Presentation.

Acknowledgements

Several agencies provided important data for this study: the DNR's Divisions of Fisheries, Nature Preserves, and Soil Conservation; the Soil Conservation Service and Agricultural Stabilization and Conservation Service offices of Steuben, LaGrange, and DeKalb Counties; and the LaGrange County Health Department. The assistance of each of these agencies is appreciated. The help of Mr. Kenneth Everett, President of the Lake Association, and Bill Grant of the County Health Department is also appreciated.

CHAPTER 2

BIG TURKEY LAKE STUDY AREA

Chapter 2
BIG TURKEY LAKE STUDY AREA

Location

Big Turkey Lake is located in Milford Township in the southeastern part of LaGrange County and Salem Township in southwestern Steuben County, Indiana (Figure 1). Big Turkey Lake is located on Turkey Creek which, after passing through Little Turkey Lake, is tributary to the Pigeon River, and subsequently to the St. Joseph River and Lake Michigan.

Lake Characteristics

Big Turkey Lake's surface area, bottom contours, and volume are reported on a 1957 DNR lake map. Surface area is 450 acres. The maximum depth of the lake is about 65 feet and average depth some 16 feet. Lake volume is 7,300 acre-feet. Hydraulic retention time is about 114 days.

In his preliminary investigation of 24 lakes in LaGrange County, Grant (1988) discussed the historical development of Big Turkey Lake. In the early to mid twentieth century, a cement manufacturer dredged marl from Big Turkey Lake and substantially influenced its morphology and overall ecology (marl is a precipitate of lime in lakes having hard, alkaline water). In 1941 the cement plant ceased operations; its facility at Stroh is no longer evident.

Big Turkey's lake level has been stabilized at El. 934.8 ft msl by the construction of a control structure at the Turkey Creek outlet.

Big Turkey Lake is heavily developed. Nearly all of the shoreline is developed with seasonal and year-round homes. Boating, fishing, water skiing, and swimming are popular activities on the lake.

Watershed Characteristics

Figure 2 is a map of the watershed, and shows the eleven subbasins draining into Big Turkey Lake, and well as others that drain into Little Turkey Lake. The 11 subbasins represent elements studied in the analysis of Big Turkey Lake's watershed and pollutant loadings.

The area of Big Turkey Lake's watershed is 22,688 acres (35.4 mi^2, 9,182 ha). The watershed drains into Big Turkey Lake largely through Mud Creek and Turkey Creek. Mud Creek drains about 4,814 acres (1,948 ha) and includes subbasins 9 and 10 on Figure 2. Turkey Creek is the largest tributary to the lake, draining 15,068 acres (23.5 mi^2, 6,098 ha) consisting of subbasins 1 through 8. Turkey Creek drains about two-thirds (66 %) of the Big Turkey Lake watershed.

Hydrologic data for this study come from the US Geological Survey's annual water reports and National Weather Service published records. There are U.S. Geological Survey stream gages at Pigeon Cr. near Angola, North Branch Elkhart River at Cosperville, and Fish Creek at Hamilton. Average annual runoff is 11.7 inches per year (or 680 ac-ft/mi^2/yr). Precipitation, as recorded by the National Weather Service in Angola, IN, is 35.5 inches per year.

The primary source of land use information was aerial photographs supplied by the USDA Agricultural Stabilization and Conservation Service in Angola, LaGrange, and Auburn. Other sources of information were the National Wetland Inventory Maps and ground-truthing windshield surveys. The aerial photographs and maps were digitized for computer-aided production of a composite land use map for the watershed.

Land use in the watershed is tallied in Table 1. Figure 3 is a map of land use in the watershed. Figure 4 and Table 2 indicate the percentage of land being used for the land use categories.

In the 22,688-acre Big Turkey lake watershed, there are 13,777 acres of land being used for rowcrop production. This represents about 61% of the watershed and is the primary use of land. Grasslands, either in the form of Conservation Reserve "set aside" lands, hayfields, or idle lands are the second most common land use, at 18% of the watershed. The only other significant land use type in the watershed is wetlands, estimated at 12% of the land.

Soils

The upper drainage portions of the watershed are composed of the Riddles-Miami-Brookston soil association, described as deep, nearly level to moderately steep, well drained to very poorly drained loamy soils on till plains. The lower portions of the watershed are in the Kosciusko-Ormas-Boyer association, described as nearly level to strongly sloping, well drained loamy and sandy soils that are moderately deep or deep over sand and gravel, on outwash plains and moraines (SCS 1981).

The recently published Nonpoint Source Assessment Report (IDEM 1989) estimated the major land resource area that includes the study area to be eroding at an average rate of 4.9 t/ac/yr.

Figure 5, digitized from the Countys' soil surveys, is a map showing soils considered by the Soil Conservation Service to be highly erodible. Highly erodible lands (HEL), particularly those actively farmed for production of row crops, can be a significant source of sediment to Big Turkey Lake. Table 3 tallies subbasin areas that are classified as highly erodible, and the acreage of those soils used for row crop production during 1989. About 35% of the lake's total watershed is considered to be composed of soils classified as highly erodible. Subbasin 5, Story Lakes, has the greatest percentage, with 60% of its subbasin being HEL; subbasin 8, Middle Turkey Creek, has the least proportion, with 21%.

The percentage of each subbasin's HEL used for row crops ranges from 11% in subbasin 11 (Big Turkey Lake's immediate drainage area) to nearly one-third of subbasins 2 and 6. Watershed-wide, about 22% of the HEL are used for row crop production. This represents about 5,000 acres.

Table 1
LAND USE IN THE BIG TURKEY LAKE WATERSHED
(acres)

No.	Subbasin	Total Area	Wetland	Urban	Crops	Grass	Forest	Shrub
1	Smathers Ditch	2,517	88	13	1,985	297	134	0
2	Conrad Ditch	446	42	91	250	64	0	0
3	Headwaters	2,299	146	0	1,638	369	124	22
4	Upper Turkey Cr	1,858	108	0	1,364	201	180	6
5	Story Lake	2,083	191	17	743	880	180	72
6	Helmer	3,050	347	43	2,280	289	91	0
7	Limekiln Lake	1,806	280	0	1,060	337	129	0
8	Middle Turkey	1,008	187	0	732	90	0	0
9	Mud Creek	4,418	401	16	2,640	1,055	247	59
10	Henry Lake	396	72	0	253	29	14	28
11	Big Turkey Lake	2,806	837	382	832	448	182	125
	Total	22,688	2,698	561	13,777	4,059	1,282	311

Table 2
LAND USE PERCENTAGES IN THE BIG TURKEY LAKE WATERSHED

No.	Subbasin	Total Acreage	Wetland	Urban	Crops	Grass	Forest	Shrub
1	Smathers Ditch	2,517	4	1	79	12	5	0
2	Conrad Ditch	446	9	20	56	14	0	0
3	Headwaters	2,299	6	0	71	16	5	1
4	Upper Turkey Cr	1,858	6	0	73	11	10	0
5	Story Lake	2,083	9	1	36	42	9	3
6	Helmer	3,050	11	1	75	9	3	0
7	Limekiln Lake	1,806	16	0	59	19	7	0
8	Middle Turkey	1,008	19	0	73	9	0	0
9	Mud Creek	4,418	9	0	60	24	6	1
10	Henry Lake	396	18	0	64	7	4	7
11	Big Turkey Lake	2,806	30	14	30	16	6	4
	Total	22,688	12	2	61	18	6	1

Table 3
HIGHLY ERODIBLE LAND (HEL) IN THE BIG TURKEY LAKE WATERSHED AND ITS USE FOR PRODUCTION OF ROWCROPS

No.	Subbasin	Total HEL Acreage	HEL as Cropland (Ac)	(%)	(Ac)	(%)
1	Smathers Ditch	2,517	874	35	683	27
2	Conrad Ditch	446	237	53	139	31
3	Headwaters	2,299	737	32	556	24
4	Upper Turkey Cr	1,858	474	26	353	19
5	Story Lakes	2,083	1,240	60	426	20
6	Helmer	3,050	1,201	39	964	32
7	Limekiln Lake	1,806	492	27	376	21
8	Middle Turkey	1,008	209	21	137	14
9	Mud Creek	4,418	1,527	35	943	21
10	Henry Lake	396	130	33	93	24
11	Big Turkey Lake	2,806	804	29	300	11
	Total	22,688	7,926	35	4,969	22

CHAPTER 3

BIG TURKEY LAKE AQUATIC RESOURCES

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BIG TURKEY LAKE AQUATIC RESOURCES

Methods

Water, sediment, and plankton sampling was performed on September 6, 1989. Harza biologists collected plankton samples using an 80-micrometer mesh Student's plankton net. The plankton samples were field preserved with Lugol's solution. Two algal tows were done at the same location sampled for water quality, one from a depth of five feet to the surface, the other from the thermocline (19 ft depth) to the surface. Plankton were counted using a Sedgewick-Rafter cell and identified using a key published in APHA et al. (1985).

Water samples collected on September 6, 1989, were taken between the hours of 9 am and noon. Water samples were taken at or near the deepest part of the lake and at four locations on the major tributaries to the lake (Figure 6). A composite lake water sample was collected by combining equal parts of water taken from five feet deep, 18 feet deep, and 35 feet deep. A composite sediment sample was taken from the channel at Addition 4 to Wildwood, in three to four feet of water. Bottles and guidance were provided to a local volunteer to collect storm runoff samples for analysis. These samples were collected on May 16, 1990 at the mouths of the two major tributaries to Big Turkey Lake: Mud Creek and Turkey Creek.

Dissolved oxygen (DO), conductivity, pH, alkalinity, and temperature were measured in the field. Other parameters were measured in the laboratory from samples collected and preserved in the field according to APHA et al. (1985). The thermocline was first determined using a Yellow Springs, Inc. dissolved oxygen meter (model 57) equipped with a temperature sensor. After the depth of the thermocline was determined, a Kemmerer bottle was used to collect a composite sample of equal portions from the epilimnion, the metalimnion, and the hypoliminion. Conductivity was determined using a Yellow Springs, Inc. Salinity-Conductivity-Temperature meter (Model 33). Total and phenolphthalein alkalinity were measured on both epilimnetic and composite lake water samples by titration to a colorimetric endpoint. Secchi disk visibility was also measured in the field using a standard eight-inch black and white disk.

Water was sampled and tested according to Standard Methods (APHA et al. 1985). Samples were kept on ice from the moment of collection until they reached the laboratory on the day after collection. Quality assurance procedures included the calibration of all field meters prior to their use according to manufacturer's instructions and Chain of Custody procedures. The contract laboratory was National Environmental Testing, Midwest of Streamwood, Illinois; this laboratory is approved by all major

governmental agencies that certify labs, and has a long-standing record of quality service for Harza.

Sediment was collected using an Ekman dredge. Two samples were composited, both taken from the canal at Addition #4 to Wildwood in three to four feet of water.

Fisheries

The Department of Natural Resources (DNR) Division of Fish and Wildlife first surveyed the fish population of Big Turkey Lake in 1968 (DNR 1968). Their survey methods included electrofishing techniques, and conventional trap, gill, and seine netting. The DNR caught 20 species of fish plus three hybrid crosses; bluegill (Lepomis macrochirus) dominated their catch, comprising 50% of the number in the samples. Other fishes captured, in order of decreasing abundance, included redear sunfish (L. microlophus, 13%), pumpkinseed (L. gibbosus, 9%), and warmouth (L. gulosus, 8%). Based on the 1968 survey, and their estimates of fish condition factors, growth rates, and fish sizes, the DNR considered the Big Turkey Lake fishery satisfactory. They did, however, recommend an aquatic weed control program for the lake.

In 1977, the DNR again surveyed the lake's fish population using only gill nets and electrofishing gear (DNR 1977). The 1977 survey captured 18 species of fish and two hybrids; bluegill was still the most common fish, comprising 29% of the catch. Other common fishes captured included, in decreasing order of abundance, yellow bullhead (Ictalurus natalis, 25%) warmouth (9%) and pumpkinseed (7%). The DNR again reported that the Big Turkey Lake fishery was satisfactory.

The DNR resurveyed the lake in 1985, with gill nets and electrofishing gear (DNR 1985). Twenty species of fish and one hydrid cross were collected. Bluegill again dominated the catch at 46% of the number of fish collected. In order of decreasing abundance, black crappie (Pomoxis nigromaculatus) was 11% of the catch, largemouth bass (Micropterus salmoides) was 9%, and yellow bullhead was 7%. The 1985 DNR fish survey report reported that no fish diseases or parasites were noted; that water quality was good; that the sport fishery continues to be good to excellent; and, that the aquatic vegetation in the lake is not detrimental to growth or recruitment of sport fish.

Macrophytes and Phytoplankton

The DNR's 1985 report contained a list of common aquatic macrophytes found in Big Turkey Lake. The list is shown below (Table 4). The report states that aquatic macrophytes are particularly abundant in the extreme southern end of the lake and in the shallow bays on the north side. Harza's field inspections verified most of the species

listed in Table 4. Further, Harza found extensive colonizations of aquatic macrophytes in the southern end of the lake and in the bays on the north side.

The Lake Association has relied on herbicide applications to control aquatic weeds over the last three years or so. Their routine applications involve the use of 2,4-D, diquat, copper sulfate, and Komeen. The cost of their treatments has typically been about $12,000 per year.

On September 6, 1989 Harza collected and identified plankton in Big Turkey Lake (Table 5). In the samples, blue-green algae (Cyanophyta) constituted 80% of the plankton in the top five feet of the water column and 98% of all plankton in the top sixteen feet of water. This dominance by blue-greens of late summer algal communities is typical for Indiana lakes, and is one variable in the lake trophic index used by the IDEM.

Table 4

AQUATIC PLANTS IN BIG TURKEY LAKE
(Source: DNR 1985)

Common Name	Scientific Name
Watermilfoil	Myriophyllum sp.
Sago pondweed	Potamogeton pectinatus
Curlyleaf pondweed	P. crispus
American elodea	Elodea canadensis
Coontail	Ceratophyllum sp.
Common duckweed	Lemna minor
Chara	Chara sp.
Brittle naiad	Najas minor
Bladderwort	Utricularia vulgaris
Spatterdock	Nuphar advena
White waterlily	Nymphaea tuberosa
Common cattail	Typha latifolia
Soft rush	Juncareae sp.

Table 5

PLANKTON (units/mL) IN BIG TURKEY LAKE, SEPTEMBER 6, 1989

Plankton	16 ft to Surface	5 ft to Surface
CHLOROPHYTA		
Pediastrum simplex	0	2
Ulothrix sp.	5	9
PYRRHOPHYTA		
Ceratium sp.	0	2
BACILLARIOPHYTA		
Fragilario sp.	0	0
CYANOPHYTA		
Microcystis sp.	8	0
Coelosphaerium sp.	126	0
Oscillatoria sp.	0	11
Anacystis sp.	7	0
Lyngbya sp.	71	42
ZOOPLANKTON		
Copepod nauplii	0	0
Bosmina longirostris		0
Conochilus natans		0
Daphnia retrocurva	0	0
Daphnia longiremis		0
Mesocyclops edax	0	0
Keratella cochlearis	0	0
Keratella hiemalis	0	0
Diaphanosoma birgei	0	
Eubosmina coregoni	0	
Eurytemora affinis		0
Kellicottia longispina	0	
Skistodiaptomus oregonensi	0	0
Total	217	66

Note: A zero indicates that the plankton specie was identified in the sample but the computation of lake plankton concentrations estimated these species at less than one per mL. The absence of a concentration indicates that specie's absence from that sample.

Water and Sediment Quality

Results of the 1989 water quality testing are given in Tables 6 and 7. Appendix A includes copies of the analytical reports from the laboratory. As Table 6 indicates, the lake was clearly thermally stratified during the sampling. The top 15 feet had abundant oxygen concentrations and temperatures near 73 degrees F (23 C). Below the 15-foot depth, dissolved oxygen rapidly declined to nearly undetectable limits, and temperature dropped to about 50 degrees (10 C).

In general terms, Big Turkey Lake water quality has moderately high alkalinity and fertility. Water clarity, in terms of secchi disk visibility was 6.7 feet (2.1 m) on September 6. This is rather moderate clarity in comparison to other lakes in the state. In light of the presence of marl in Big Turkey Lake, alkalinity and conductivity were surprisingly low, since marl lakes, by their nature, have high alkalinities and dissolved salt contents.

Table 6

DISSOLVED OXYGEN AND TEMPERATURE PROFILE MEASURED IN BIG TURKEY LAKE ON SEPT 6, 1989

Depth (ft)	Depth (m)	Water Temp (deg F)	Water Temp (deg C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen Saturation (%)
1	0.3	74	23.5	8.9	109%
3	0.9	74	23.5	8.9	109%
6	1.8	74	23.5	8.6	105%
9	2.7	73	23	8.1	98%
12	3.7	73	23	7.6	92%
15	4.6	73	22.5	6.2	74%
18	5.5	64	18	0.5	5%
21	6.4	59	15	0.4	4%
24	7.3	54	12	0.3	3%
27	8.2	52	11	0.2	2%
30	9.1	51	10.5	0.2	2%
33	10.1	50	9.8	0.2	2%
36	11.0	49	9.5	0.2	2%
39	11.9	48	9	0.2	2%
42	12.8	48	9	0.2	2%
45	13.7	48	9	0.2	2%

Table 7

RESULTS OF LABORATORY WATER ANALYSES

SITE	LOCATION	SAMPLE TYPE	DATE d/m/y	TIME (hours)	AMMONIA NITROGEN (mg-N/L)	KJELDAHL NITROGEN (mg-N/L)	NITRATE NITROGEN (mg-N/L)	NITRITE NITROGEN (mg-N/L)	TOTAL * NITROGEN (mg-N/L)	DISSOLVED ORTHO PHOSPHORUS (mg/L)	TOTAL PHOSPHORUS (mg/L)	N:P (atoms)	5-DAY BIOCHEMICAL OXYGEN DEMAND (mg/L)	TOTAL SUSPENDED SOLIDS (mg/L)
1	Turkey Creek at SR 327	Grab	6/9/89	8:50	0.44	0.67	1.84	0.32	3.27	0.023	0.07	103	2	7
9	Turkey Creek at 475 S	Grab	6/9/89	16:40	0.35	0.87	1.95	0.3	3.47	0.027	0.04	192	3	8
9	Turkey Creek at 475 S	Grab (storm)	16/5/90	10:30		0.76					0.17		3	123
2	Mud Creek at SR 327	Grab	6/9/89	9:20	0.42	0.78	1.36	0.32	2.88	0.055	0.11	58	<1	18
3	Mud Creek between Henry Lake and Big Turkey	Grab	6/9/89	9:30	0.28	1.13	1.96	0.24	3.61	0.020	0.12	67	3	6
3	Mud Creek between Henry Lake and Big Turkey	Grab (storm)	16/5/90	10:40		1.61					0.25		3	150
5	Culvert at Addition 4	Grab	6/9/89	12:00										
4	Big Turkey Lake	Grab (11 m)	6/9/89	11:40	0.9						<0.01			
4	Big Turkey Lake	Composite	6/9/89	11:45	0.52	1.06	0.34	0.2	2.12	0.008	0.05	94		3
4	Big Turkey Lake	Grab (0.5 m)	6/9/89	11:45										
8	Turkey Creek at 350 S	Grab	6/9/89	16:20	0.25	0.87	0.22	0.05	1.39	0.012	0.03	103	2	5
7	Mud Lake Outlet at 350 S	Grab	6/9/89	16:00	0.33	1.21	0.29	0.23	2.06	0.016	0.11	41	5	23
7	Mud Lake Outlet at 350 S	Grab (storm)	16/5/90	11:00		2.23					0.17		3	107
6	Little Turkey Lake	Grab (9 m)	6/9/89	14:25	3.7						0.07			
6	Little Turkey Lake	Composite	6/9/89	14:30	1.68	1.8	0.13	0.1	3.71	0.035	0.04	205		5
6	Little Turkey Lake	Grab (0.5 m)	6/9/89	14:25										

SITE	LOCATION	SAMPLE TYPE	DATE d/m/y	TIME (hours)	FECAL COLIFORMS (#/100mL)	FECAL STREPTOCOCCUS (#/100mL)	FC:FS	TOTAL ALKALINITY (mg CaCo3/L)	pH	SECCHI DISK DEPTH (ft)	WATER TEMPERATURE (degrees C)	DISSOLVED OXYGEN (mg/L)	CONDUCTIVITY (umhos/cm)
1	Turkey Creek at SR 327	Grab	6/9/89	8:50	130	72	2	160	7.0		23	8.1	429
9	Turkey Creek at 475 S	Grab	6/9/89	16:40	280	100	3	200			22	7.4	473
9	Turkey Creek at 475 S	Grab (storm)	16/5/90	10:30									
2	Mud Creek at SR 327	Grab	6/9/89	9:20	6250	667	9	260	6.6		18	7.6	442
3	Mud Creek between Henry Lake and Big Turkey	Grab	6/9/89	9:30	80	236	0.3	200	7.1		22	15.8	378
3	Mud Creek between Henry Lake and Big Turkey	Grab (storm)	16/5/90	10:40									
5	Culvert at Addition 4	Grab	6/9/89	12:00	1060	1148	0.9						
4	Big Turkey Lake	Grab (11 m)	6/9/89	11:40							9.5	0.2	
4	Big Turkey Lake	Composite	6/9/89	11:45	0	9	0	180		6.7			
4	Big Turkey Lake	Grab (0.5 m)	6/9/89	11:45				160	7.6		27	8.9	412
8	Turkey Creek at 350 S	Grab	6/9/89	16:20	190	109	2	180	7.0		24	9.1	420
7	Mud Lake Outlet at 350 S	Grab	6/9/89	16:00	600	249	2	160	7.0		23	9.5	355
7	Mud Lake Outlet at 350 S	Grab (storm)	16/5/90	11:00									
6	Little Turkey Lake	Grab (9 m)	6/9/89	14:25							10	0.1	
6	Little Turkey Lake	Composite	6/9/89	14:30	140	72	2	200		3.8			
6	Little Turkey Lake	Grab (0.5 m)	6/9/89	14:25				160	7.3		24	11	398

For comparison to the data presented in Tables 6 and 7, the State's water quality standards applicable to Big Turkey and Little Turkey Lakes are given in Table 8. As evidenced by the inlet samples, the lake may not meet the bacteriological standards in all locations because of watershed sources of coliform bacteria. Big Turkey Lake, like all lakes and reservoirs in the State, is legally designated for recreational use (including whole-body contact recreation) and support of warm water aquatic life.

Table 8

WATER QUALITY STANDARDS APPLICABLE TO BIG AND LITTLE TURKEY LAKES

Parameter	Standard
Dissolved Oxygen	Daily Average of 5.0 mg/L Minimum of 4.0 mg/L
pH	6.0 - 9.0
Fecal Coliform Bacteria	Less than 400/100 mL or Less than 200/100 mL per 5 samples in 4-week period

Source: Indiana Administrative Code, Title 330, Article 1. Water Quality Standards.

On September 6, 1989, mean water column total phosphorus was 0.05 mg/L, of which about 20% (0.08 mg P/L) was ortho-phosphate, a readily bioassimilatable form of phosphorus. Marl lakes, with their innate high calcium concentrations, will tend to have low phosphate concentrations. Calcium concentration influences the formation of marl as well as hydroxylapatite [$Ca_5(OH)(PO_4)_3$]. In pure water, a calcium concentration of 40 mg/L at a pH of 7 limits the solubility of phosphate to approximately 0.003 mg P/L. A calcium concentration of 100 mg/L lowers the maximum concentration of phosphate to 0.0003 mg P/L. In view of this, ortho-phosphate concentrations were surprisingly high on Sept 6.

For comparison, the US EPA National Eutrophication Survey (USEPA 1974) considered total phosphorus concentrations above 0.02 mg/L to be representative of eutrophic lakes; the US EPA considered mesotrophic lakes (moderately productive) lakes to have 0.01 to 0.02 mg/L, and oligotrophic lakes (low productivity) to have total phosphorus concentrations less than 0.01 mg/L. Hence, Big Turkey Lake has rather high phosphorus concentrations, and would be considered by the US EPA to be eutrophic. The nitrogen

to phosphorus ratio (N:P), an indicator of which of these two nutrients limits productivity, was 94. An N:P in this range indicates a phosphorus-limited ecosystem (Wetzel 1983). Most fresh waters are phosphorus limited.

Hypolimnetic (deep) waters of Big Turkey Lake were sampled for ammonia nitrogen, total phosphorus, and dissolved oxyen and the results were compared to those from the composite. Largely due to the absence of oxygen in bottom waters, ammonia and phosphorus may build up to concentrations much higher than those found in surface waters. This build up is largely due to the release of nutrients from the sediments and commonly occurs in Indiana lakes. Hypolimnetic total phosphorus was less than 0.01 mg/L, compared to 0.05 mg/L in the water column composite sample. Hypolimnetic total ammonia nitrogen was 0.9 mg/L; epilimnetic total ammonia nitrogen was 0.52 mg/L. It therefore appears from these limited data that:

1. Phosphorus is not being released from the sediments at high rates; and,

2. The nitrogen in the anoxic hypolimnion is being reduced to ammonia.

Fecal coliform and streptococcus bacteria are indicators of sewage contamination. These bacteria were very low in the composite lake sample, but were at higher concentrations in incoming streams, particularly in samples from Mud Creek at State Road 327 and in the culvert at Addition 4. The fecal coliform to fecal streptococcus ratio (FC:FS) is a general indicator of the source of pollution. FC:FS above 4.1 is considered to be indicative of pollution derived from human excrement, whereas FC:FS less than 0.7 suggests pollution due to non-human sources such as livestock, wildlife or pets (APHA et al. 1985). Most of the samples has FC:FS ratios between 4.1 and 0.7, and hence were inconclusive indicators of septic sources. The exceptions were Mud Creek between Henry and Big Turkey Lakes, and, Mud Creek at State Road 327. The latter sample had a FC:FS ratio of 9, suggesting human sanitary contamination led to the high levels of enteric bacteria in that sample. After passing through Henry Lake, the level of fecal coliform and streptococcus bacteria dropped significantly, as did the FC:FS ratio. Because of the much lower bacteria concentrations, the change in the FC:FS ratio is likely due to differential purification rates for the two types of bacteria rather than new sources.

Of the incoming streams, Mud Creek at State Road 327 represents the poorest water quality. During the baseflow sampling, this stream was obviously more turbid; total suspended solids concentration (TSS) at the site was 18 mg/L, compared to five to eight mg/L TSS at the other incoming stream sampling stations. Also, TSS was highest at this site of the three samples taken following a rain storm. Although more data are required for conclusivity, this high TSS level could reflect the subbasin's high area of HEL and cropland and low percentage of wetlands.

Sediment quality data from this study are given in Table 9. A composite sediment sample was taken in three to four feet of water in a canal in Addition #4 to Wildwood on the northwest side of the lake. Generalizations about the lake sediment cannot be made from this single sample from a remote, developed part of the lake. The sediment sample contained high total phosphorus and ammonia concentrations. The levels of these two constituents found in the sample are considered to be highly polluted, according to the US Environmental Protection Agency's classification of Great Lakes harbor sediments (USEPA 1977). Ammonia concentrations greater than 200 ug/g or phosphorus concentrations greater than 650 ug/g are considered representative of highly polluted sediments. The particle size distribution indicates the sediment sample was primarily sands. Given the relatively low percentage of silt and clay in the sample, the high nutrient concentrations are particularly notable.

Table 9

RESULTS OF SEDIMENT ANALYSIS FOR BIG TURKEY LAKE

Parameter	Concentration
Ammonia nitrogen	626 ug/g
Kjeldahl nitrogen	7,360 ug/g
Total phosphorus	1,250 ug/g
Total organic carbon	6,380 ug/g
Particle Size Distribution	
#60 sieve (0.25 mm)	14%
#80 sieve (0.2 mm)	18%
#100 sieve (0.15 mm)	16%
#200 sieve (0.075 mm)	34%
#230 sieve (0.06 mm)	17%
Pan (<0.6 mm)	0%

Other Resources

The DNR Division of Nature Preserves was contacted during this study. They checked the Indiana Natural Heritage Program's database and sent us information on State listed endangered, threatened, or special concern species occurring in the Stroh and Ashley quadrangles (Table 10). The Division stated that no State Nature Preserves or known significant natural communities are located in the study area.

Table 10

STATE LISTED ELEMENTS WITH THE BIG AND LITTLE TURKEY WATERSHEDS
(Source: Indiana Natural Heritage database, DNR)

Speyeria idalia	regal fritillary butterfly
	species of special concern
1942 record from the north shore of Big Turkey Lake	
Coregonus artedii	cisco or lake herring
	species of special concern
Big Long Lake	population low or extinct by 1974
Lake of the Woods	1974 record; current status unknown
McClish Lake	1974 record; current status unknown
Potamogeton friesii	Fries pondweed - State endangered
Potemogeton robbinsii	flatleaf pondweed - State endangered
Potemogeton richardsonii	Richardson's pondweed - State endangered
Big Long Lake	1963 records
Bidens beckii	Beck's water marigold - State endangered
Big Long Lake	1985 record
Carex woodii	pretty sedge - State threatened
Dentaria diphylla	two-leaf toothwort - State threatened
Section 11 T36N R12E (approximate) 1938 records	
Poa alsodes	grove meadow grass - State endangered
Section 24 T34N R12E (approximate) 1929 record	

CHAPTER 4

ENHANCEMENT OF BIG TURKEY LAKE

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ENHANCEMENT OF BIG TURKEY LAKE

This chapter identifies and evaluates the sources of eutrophication to Big Turkey Lake and assesses available technology for remedying the eutrophication and enhancing the lake.

Lake Eutrophication Index

A Lake Eutrophication Index (LEI), based upon the Indiana Department of Environmental Management's BonHomme Index (IDEM 1986), was updated for Big Turkey Lake as part of this study.[1/] A LEI is a numerical rating of a lake's trophic or productivity status; the higher the index, the greater the lake's productivity. IDEM (1986) reported the LEI for Big Turkey Lake as 44. The updated LEI is 19, an apparent significant improvement. Table 11 details our computation of the LEI, based upon the IDEM system.

The perceived reduction from 44 to 19 eutrophy points changes Big Turkey Lake's classification from a Class Two lake to Class One. Class Two lakes are of intermediate quality, are productive and moving slowly towards senescence, are impacted by anthropogenic activities, and may have problems with aquatic weeds and plankton. The majority of Indiana's lakes are Class Two lakes.

[1/]In the updated computation of LEI, secchi disk visibility (SD, in feet) was substituted for the LEI variable for light transmittance (L) by the use of equations 1 and 2:

$$L_{1\%} = 2.5SD \qquad \text{(Eq. 1)}$$

$$\log L_{3'} = \frac{3}{-1.25SD} \qquad \text{(Eq. 2)}$$

where, $L_{1\%}$ is the depth (feet) at which light transmittance is 1% of the incident light, and $L_{3'}$ is the light transmittance at the three-foot depth. The substitution of secchi disk visibility was made per discussions with "T by 2000" lake enhancement staff, and, due to the relative insensitivity of the LEI to the light transmission variable (4 out of a possible 75 points), this is not an unreasonable substitution.

Table 11
ISBH LAKE EUTROPHICATION INDEX FOR BIG TURKEY LAKE

	Parameter	Measured Value	(units)	Eutrophy Points
I.	Total Phosphorus	0.05	mg/L	2
II.	Dissolved Ortho Phosphorus	0.01	mg/L	0
III.	Organic Nitrogen	0.54	mg/L	1
IV.	Nitrate Nitrogen	0.34	mg/L	1
V.	Ammonia Nitrogen	0.52	mg/L	2
VI.	Dissolved Oxygen Saturation at five feet from surface	105	%	0
VII.	Dissolved Oxygen (% measured water column with >0.1 ppm DO)	100	%	0
VIII.	Light Penetration (Secchi Disk)	6.7	feet	0
IX.	Light Transmision (% transmittance at 3 ft)	44	%	3
X.	Total Plankton			
	Vertical tow, 5 ft to surface	66	cells/mL	0
	Blue-green dominance?	Yes		5
	Vertical tow, from thermocline	221	cells/mL	0
	Blue-green dominance?	Yes		5
			LEI=	19

a:\5131\isbh_lei.wq1

Class One lakes are the State's highest quality, being mesotrophic or oligotrophic, and rarely support concentrations of macrophytes or algae.

For management purposes, the IDEM considers Big Turkey Lake to be a Group VII B lake (IDEM 1986). In general, lakes of this type do not have water quality problems severe enough to warrant drastic restoration measures, such as lake dredging. Rather, the IDEM recommends that the management priority be limitation of nutrient inputs to the lake.

Nonpoint Source Pollution

Nonpoint source pollution in the Big Turkey Lake watershed was estimated using a modification of the US Environmental Protection Agency's WATERSHED system (Monteith et al. 1981). As the US Geological Survey has done (Walker et al. 1989), we adapted the WATERSHED technique to electronic spreadsheets because of their rapid recomputation capability and flexibility. WATERSHED is essentially an accounting system for point and nonpoint pollution. Our modification accounts for pollution on a subbasin basis, using the Universal Soil Loss Equation (USLE) for evaluating sediment loadings from cropland and the unit area loading (UAL) concept for phosphorus loadings (Reckhow et al. 1980). The objective of the nonpoint source pollution loading estimates was to determine the requirement and best locations for sediment detention facilities in the watershed.

Figure 7 is a schematic showing subbasin sources and points of entry into the system. The USLE was used to estimate soil loss in each subbasin. Weighted averages of the USLE coefficients K, LS, and C were computed for soil types occurring in each subbasin for highly erodible lands (HEL) and non-HEL. Sediment yield was estimated as the product of soil loss and sediment delivery ratio (SDR). SDRs for each subbasin or upslope combination of subbasins (point of entry) were taken from the curve in Figure 8 (GLBC 1975). Sediment production is the product of subbasin area and sediment yield.

Appendix B contains the spreadsheet computing nonpoint source pollution in the watershed. Input data for the pollution model were obtained from a variety of sources. Phosphorus export coefficients were obtained from a compilation and review by Reckhow et al. (1980). Export coefficients for noncropland were selected for these land use types according to climate, location, soil type, and vegetative cover. Export coefficients for cropland soils represent subbasin weighted averages according to the soil types and textures within that subbasin. Coefficients used in the USLE were taken from the county soil surveys, and personal communications with the local SWCD Erosion Control Technicians.

The results are summarized in Tables 12 and 13. Helmer (subbasin 6) has the highest sediment yield, at about two tons per acre. This is largely due to the high LS factors there (steep, long slopes). Best management practices (BMPs) will likely have the greatest effect in this area. Other subbasins with high sediment yields are Conrad Ditch and Headwaters.

Table 13 gives the estimates of most likely mean annual phosphorus loadings to the lake from each subbasin's sources. Croplands represent the largest source of phosphorus to Big Turkey Lake and are about 90% of the total loading of about 3,900 kg/yr. HEL cropland represents about 42% of the total; non-HEL cropland represents about 47%. Smathers Ditch (subbasin 1) is estimated to export the greatest amount of phosphorus, at about 708 kg/yr. About 97% of this is derived from cropland; about two-thirds from non-HEL cropland. The majority of the non-HEL soils in subbasin 1 are silty loams or loams (BnA, CrA) and typically have high phosphorus export coefficients. Helmer (subbasin 6) and Mud Creek (subbasin 9) also export large amounts of phosphorus each year (about 644 kg and 609 kg respectively), again, largely from croplands (both HEL and non-HEL).

Septic system phosphorus contribution to Big Turkey Lake is estimated to be 132 kg/yr, or about three percent of the annual incoming phosphorus. However, this estimate is based on an assumed soil retention coefficient of 50%. If this assumption is altered to 10%, the annual phosphorus contribution from septic systems would be 240 kg, or about six percent. Septic systems therefore are not a major portion of the lake phosphorus budget.

Table 12

SEDIMENT YIELD AND PRODUCTION ESTIMATES FOR BIG TURKEY LAKE

Subbasin	Subbasin Sediment Yield (t/ac/y)	Subbasin Sediment Production (t/y)	Point of Entry Sediment Yield (t/ac/y)	Point of Entry Sediment Production (t/y)
1 Smather Ditch	0.8	2,006	0.9	4,677
2 Conrad Ditch	1.1	502	0.9	4,677
3 Headwaters	1.4	3,111	0.9	4,677
4 Upper Turkey Cr	0.7	1,216	0.8	10,191
5 Story Lakes	1.3	2,707	1.3	2,707
6 Helmer	1.9	5,821	0.8	10,191
7 Limekiln Lake	0.6	1,173	0.7	10,156
8 Middle Turkey Cr	0.5	532	0.5	10,873
9 Mud Creek	0.5	2,343	0.5	2,343
10 Henry Lake	0.5	196	0.5	10,873
11 Big Turkey Lake	0.4	1,045	0.5	10,873

Table 13

MEAN ANNUAL PHOSPHORUS LOADINGS (kg/yr) TO BIG TURKEY LAKE

Subbasin	Atmospheric Deposition	Septic Systems	Urban Areas	Noncropland	HEL Cropland	Other Cropland	Total
1 Smathers Ditch			3	16	255	435	708
2 Conrad Ditch			22	0	45	23	91
3 Headwaters				16	199	220	434
4 Upper Turkey Cr				11	96	193	301
5 Story Lakes			4	48	164	67	283
6 Helmer			10	-7	363	274	640
7 Limekiln Lake				3	125	124	252
8 Middle Turkey Cr				-10	27	73	90
9 Mud Creek			4	44	261	300	609
10 Henry Lake				-2	20	16	34
11 Big Turkey Lake	36	132	93	8	80	100	450
Total	**36**	**132**	**136**	**129**	**1,635**	**1,825**	**3,893**

Note: The absence of a figure indicates that the source is inappropriate for that subbasin. A zero indicates that the source is appropriate, but estimated to be zero.

This study also estimated mean annual water column phosphorus concentrations in Big Turkey Lake using an empirical model developed by Reckhow (Reckhow and Chapra, 1983; Reckhow and Simpson, 1980). Reckhow's model was selected for use because it quantifies uncertainty and was developed using data from many lakes in the Midwest. Computation of uncertainty is important here because of the limited field data available. The model's computations were done using spreadsheet software and are reprinted in Appendix C.

Briefly, Reckhow's model is based on 47 temperate north lakes included in the US EPA's National Eutrophication Survey. The model expresses phosphorus concentration (P, in mg/L) as a function of phosphorus loading (L, in g/m^2-yr), areal water loading (q_s, in m/yr), and apparent phosphorus settling velocity (v_s, in m/yr) in the form of equation 3:

$$P = \frac{L}{v_s + q_s} \qquad \text{(Eq. 3)}$$

By least squares regression of the 47 lakes data, Reckhow fitted apparent phosphorus settling velocity (denominator in Eq. 4) as a weak function of areal water loading (numerator in Eq. 4):

$$P = \frac{L}{11.6 + 1.2q_s} \qquad \text{(Eq. 4)}$$

Using equation 4 and Reckhow's procedure, phosphorus loadings to a lake and mean annual lake phosphorus concentrations can be estimated.

Loadings were estimated in the WATERSHED spreadsheet based upon land use areas and phosphorus export coefficients, as described earlier. For the sake of practicality, Appendix C included high, most likely, and low export coefficients, allowing computation of high, most likely, and low phosphorus loadings and mean lake water column concentrations. The high and low estimates represent the computation's uncertainty, since actual phosphorus export coefficients were not measured during this study. This uncertainty represents error that is in addition to Reckhow's empirical model error and must be included in the computation of total uncertainty. In other words, the range between the high and low estimates reflects the uncertainty inherent in extrapolating the information from Reckhow's compilation of export coefficients to the study area.

Reckhow's phosphorus model predicts a mean annual water column average total phosphorus concentration of 0.07 mg/L. The 90% confidence limits bounding this estimate are 0.02 mg/L and 0.18 mg/L. Given the mean water column total phosphorus concentration of 0.05 mg/L measured in August, 1989, the 0.07 mg/L estimate is reasonable. Reckhow considers this level of phosphorus indicative of eutrophic lakes. Based upon this model, as well as the field water quality and other data, Big Turkey Lake must be classified as eutrophic, and lacking the chemical and biotic characteristics desired by lake users.

The estimates of the phosphorus model were used to place Big Turkey Lake on Vollenweider's phosphorus loading plot, Figure 9 (Vollenweider 1975). For comparison, three nearby lakes are also included in Figure 9. The plot has three basic zones, and a lake's datum will fall within one of those zones: eutrophic, mesotrophic, or oligotrophic. The upper zone is eutrophic lakes; the bottom zone is oligotrophic lakes. Mesotrophy is indicated by a datum falling in the midregion of the plot. Big Turkey Lake clearly falls in the eutrophic zone.

Evaluation of Lake Enhancement Alternatives

Approach. The purpose of a feasibility study is to identify, compare, and screen project alternatives and to select one or more alternatives for further study or design. Alternative methods for enhancing Big Turkey Lake were evaluated using a three-level procedure, with the depth of study increasing as the list of alternatives narrowed to those most feasible. The evaluation system's three levels are:

Level 1. **Initial Identification** - A comprehensive list of reasonable lake enhancement methods was compiled.

Level 2. **General Screening** - Alternatives which were obviously not applicable to Big Turkey Lake, had unacceptable environmental impacts, or required use of unproven technology were eliminated from further consideration.

Level 3. **Feasibility Evaluation** - Alternative methods were evaluated for technical feasibility for enhancing Big Turkey Lake. Those alternatives remaining for evaluation at this level of study were prioritized for implementation based on effectiveness and cost.

Level One - Identification. Big Turkey Lake is a valuable resource for LaGrange and Steuben Counties. The uses of the lake are being affected by the accelerated aging (cultural eutrophication) of the lake. The obvious symptoms of this accelerated aging are the large beds of aquatic macrophytes, the summertime algae blooms, and the

sediment plumes seen in the lake following storm runoff events. Less obvious symptoms include gradual decreases in lake depth and water clarity. Below, we describe various methods for remedying these lake problems.

A list of macrophyte control alternatives is presented in Table 14. Table 15 is a list of in-lake alternatives for reducing phosphorus concentrations in Big Turkey Lake. Beside each listed alternative are comments reflecting the applicability to the specific problem at Big Turkey Lake.

Level Two - Screening. The initial list of alternatives was screened, as shown in Tables 14 and 15, and only those determined to be suitable for implementation were carried forward to the feasibility evaluation stage. As noted in the tables, the criteria for this screening included obvious applicability and utility, unacceptable environmental or social impacts, legal constraints, and unproven technology.

The macrophyte control alternatives carried on to the feasibility level of study were mechanical harvesting, herbicides, and shading using dyes. Harvesting is the only weed control method that removes nutrients from the lake. These techniques are short-term control methods and must be combined with phosphorus control. Triploid (genetically sterile) grass carp (Ctenopharyngodon idella) should be considered should this alternative ever be permitted in Indiana. They are illegal at present. Other alternatives not carried forward for feasibility evaluation, and the reasons for their elimination, are given in Table 14.

In-lake methods to control phosphorus concentrations are not recommended for further study. In-lake phosphorus control basically involve restriction of sediment-generated or recycled phosphorus and include phosphorus inactivation using aluminum salts, hypolimnetic aeration, and artificial circulation. In lakes with very high internal phosphorus loadings or highly contaminated sediments, sediment removal has been used to successfully restore the lake. A side benefit of sediment removal is deepening the lake, so fewer rooted macrophytes are able to grow. At Big Turkey Lake, nonpoint sources are the greatest threat to the lake at present, and, given the high cost of sediment removal, it is not warranted. Sediment removal typically costs $3 to $6 per cubic yard.

Table 14

ALTERNATIVES FOR CONTROLLING AQUATIC MACROPHYTES IN BIG TURKEY LAKE

Method	Description	Suitability
Water Level Fluctuations	Exposes sediments to prolonged freezing and drying, killing roots and some species' seed. Submerges & kills some species.	Inappropriate; no mechanism currently exists at outlet for significantly lowering water level; can have adverse effects on fisheries, shoreline stability, and riparian structures.
Lake Shading	Dyes and water surface covers can shade and kill many plants.	Inappropriate for large lake areas. Water surface covers, like black plastic, may be suitable for small, localized areas.
Phytophagous Fishes	Grass carp and other exotic plant-eating fishes can control some macrophytes.	Not legal in Indiana; can have adverse environmental impacts. Consider in the future if legalized.
Insects	Insects consume plants.	Unproven technology for northern climates.
Plant Pathogens	Microorganisms introduced to lake cause diseases in macrophytes.	Unproven technology.

Table 14 (cont'd)

Harvesting	Cutting and removing plants by mechanical means.	Acceptable; requires repeated treatments; technology well developed; can be costly.
Herbicides	Use of selected chemicals to control plants.	Acceptable; short-term effectiveness; technology well established.

Table 15

ALTERNATIVES FOR REDUCING PHOSPHORUS LOADINGS IN BIG TURKEY LAKE

Method	Description	Suitability
Hypolimnetic Withdrawal	Nutrient-rich hypolimnetic water discharged from the lake during stratification, resulting in a net annual loss of P from the system.	Inappropriate; little indication of high internal loadings; no mechanism currently exists at outlet for deep water withdrawal. Downstream water quality impacts.
Nutrient Diversion	Diverting incoming P-rich waters to another basin or downstream of lake.	Not suitable for non-point sources in watershed.
Dilution or Flushing of Nutrients	Diluting lake with large volumes of nutrient-poor water.	Technically unfeasible; no suitable water supply.
Lake Phosphorus Inactivation	Chemical binding of sediment phosphorus by Al salts.	Inappropriate for lakes without high internal phosphorus loadings and low external loadings.
Sediment Oxidation	Adding a reducing agent, like nitrate, to organic-rich sediment prevents hypolimnetic anoxia and sediment P release.	Inappropriate; little indication of high internal P loadings. Effective, but not well tested, and must be repeated annually or biannually.

Table 15 (cont'd)

Sediment Removal	Dredging removes the source of internally loaded P and increases depth, greatly reducing the likelihood of recurring weed problems.	Suitable, frequently recommended, but costs are high.
Hypolimnetic Aeration	Oxygenation of hypolimnion prevents sediment release of phosphorus.	Inappropriate; little indication of high internal loading. Operating costs can be high.
Wetland Creation	Functions as trap for particle-bound phosphorus, and as a biological treatment basin.	Appropriate; effectiveness is design-dependant; more effective in early years than later. Maintenance may be required.
Artificial Circulation	Eliminates thermal stratification and aerates lake, using air bubbles or mechanical mixers.	Inappropriate; generally used to restore eutrophic lakes having plankton or metal (Fe, Mn) problems rather than for macrophyte control. Operating costs can be high.

Internal nutrient loading at Big Turkey Lake was not specifically measured. However, the sediments do release phosphorus (and ammonia nitrogen) to the anoxic hypolimnion during summer stratification. During sampling on September 6, 1989 hypolimnetic total phosphorus was less than the detection limit of 0.010 mg/L, compared to a mean water column concentration of 0.05 mg/L. Hypolimnetic ammonia concentration was 0.9 mg N/L compared to a water column average of about 0.5 mg N/L. Although this single sampling is insufficient information to judge internal nutrient loading in Big Turkey Lake, phosphorus feedback from the sediments appears to be rather low. If this is indeed the case, phosphorus inactivation would not be cost effective at Big Turkey Lake.

Phosphorus control measures should focus on limiting loadings from the watershed (nonpoint source control). These techniques are generally linked with control of soil erosion and sedimentation through Best Management Practices (BMPs) and/or sediment traps. Phosphorus is generally transported in streams adsorbed to soil particles, so removal of the soil particles from the stream system frequently removes incoming phosphorus as well. Basins can be designed and built in the watershed to trap much of this sediment before it reaches downstream lakes, and, sediment traps were also carried forward to the feasibility level of study.

Streambank erosion is undoubtedly a source of sediment being carried into the lake; during the field reconnaissances, we viewed a number of eroding banks. Notable streambank erosion is occurring on Mud Creek between Henry Lake and Big Turkey Lake, and at other locations throughout the watershed where channelization has been done. Large reaches of streams in the watershed have been channelized for improved drainage. The hydraulics of channelized streams are no longer in equilibrium with their morphogeology, and, stream bed and bank erosion is increased as the system attempts to return to equilibrium. Landowners and County Drainage Boards should become more aware of the effects of stream channelization and minimize activities in this area.

The US EPA, SCS, and other agencies have developed BMPs for watershed management and lake water quality protection. Many BMPs focus on runoff control, but have coincidental water quality benefits. An example control method already in place is the Conservation Reserve Program (CRP), where HEL are taken out of row crop production and set aside for ten years. Nutrient and sediment input to downstream lakes will undoubtedly would be reduced because of the CRP set asides in the basin.

Implementation of conservation programs can complement the development of wetlands by targeting relatively small areas of highly erodible lands where retirement of cropland or installation of conservation practices can significantly reduce sediment yield. For example, Table 12 indicates that subbasin 6 is the greatest source of sediment to Big Turkey Lake. Although subbasin 6 includes 3,050 acres of cropland, the 716 acres of highly erodible soils classified as GBn, MrC3, and MrD3 are the most susceptible to erosion. Distributions of crops typically grown in the study area are presented in the

county soils surveys. These distributions describe the percentages of land farmed in permanent pasture, hay-pasture rotation, continuous row crop, winter small grains and fallow. If this distribution of crops is assumed to represent the cropping pattern on highly erodible farmland, the average Crop Management Factor, C in the USLE, for these areas would be approximately 0.22. If it is further assumed that the land is not contour farmed or improved by other conservation practices, the Supporting Practice Factor, P, would be 1.0. Under these conditions average annual soil loss from these croplands would be approximately 32 tons/acre.

Enrolling land in the Conservation Reserve and establishing perennial vegetative cover offers one approach to reducing soil erosion on highly erodible lands. A second possibility would be to enroll eligible lands in a sister provision to the Conservation Reserve, the Conservation Compliance program which maintains land in production but requires farm management plans for control of soil erosion. Such a management plan might recommend that conventionally tilled lands in GBn, MrC3 and MrD3 soils be placed in contour terraces and tilled by chisel plow. These practices would reduce the C factor to approximately 0.12 and the P factor to 0.3, reducing annual erosion rates to approximately 6 tons/acre. If this scenario were applied to the 716 acres of GBn, Mrc3 and MrD3 cropland in Subbasin 6, estimated annual sedimentation of Big Turkey Lake would be reduced by approximately 1,700 tons or 15%.

Besides programs to control erosion, nutrient management programs conducted through the Indiana Agricultural Extension Service may be able to encourage more efficient and profitable use of fertilizers. By reducing application of excess fertilizer, a nutrient management program may reduce nitrogen and phosphorus loadings to wetlands and prolong their effectiveness as sinks for these nutrients.

Because of the large area of cropland in the Turkey Lakes watershed, erosion control and nutrient management programs alone are not sufficient to address water quality problems observed in the lakes. However, implementation of programs of the types discussed above will improve the performance and prolong the life of the proposed wetlands as well as helping to preserve farmland productivity.

Level Three - Feasibility Evaluation.

Weed Harvesting. Harvesting, or cutting and removing rooted aquatic plants, has been practiced in Midwestern lakes for many years. Although harvesting is only effective in the short-term, it has some lake restorative value when the plants are removed from the lake. Because they are removed from the lake, the plants do not decompose in the water, consume dissolved oxygen, and release their nutrients back to the water column. Disposal of the aquatic plants is not usually a problem; the vegetation makes excellent mulch and fertilizer for gardens. Harvesters should cut the vegetation at least five feet

deep. Harvesting can be done in water that is at least deep enough to float the harvester.

Macrophyte mowers are available. But, mowers do not remove the vegetation from the lake, and, although they are considerably less expensive than harvesters, mowers are not recommended.

Aquatic plant harvesters are available from specialty manufacturers. Alternatively, contract harvesting can be periodically performed. Experience indicates that during the first year of harvesting, spring, mid-summer, and late summer harvesting should be done. After this first year's program, succeeding years' aquatic plants' growth is generally less and a single harvesting is sufficient. Assuming Big Turkey Lake follows this general trend, the first year's harvesting costs would be approximately $6,800. Costs in succeeding years would be about $4,500. These estimates assume moderate efficiencies and ease of access, and, harvesting about 20% of the lake surface. This area is less than the total infected area, but, aquatic plant harvesting is not efficient or appropriate for all lake areas. Harvesting should be restricted to areas of high recreational use, and special areas like access sites. Wildlife and fish use areas should not be harvested, or, if they are, harvesting should be done in strips only, allowing angler access, but not significantly affecting wildlife habitat. Additionally, aquatic plants colonizing the lake's inlets in the south should not be harvested as they have an important water quality restoration role.

Adverse ecological effects of harvesting are few. The aquatic plants will return and harvesting will need to be repeated. Harvesting is generally increasingly effective after successive years of harvesting. With fewer macrophytes, phytoplankton concentrations may increase, and water clarity may decrease. Macrophytes should not be harvested from certain locations, such as the head of the lake and mouths of tributaries for fish habitat and filtration of the incoming water.

Access to the lakefront for offloading harvested aquatic plants is somewhat limited at Big Turkey Lake. Temporary access however can be created at several points around the lake at minimal costs.

Herbicides and Shading. Controlling macrophytes using herbicides is effective, but herbicide use is not lake restoration (i. e., does not remove nutrients). Likewise, dyes that decrease light penetration into the water also control plants, but cannot be considered a lake restoration method. Neither of these techniques addresses the causes of aquatic plant growth, nor do they remove aquatic plants' organic matter or nutrients from the lake. These methods cause plants to die, to decompose on the lake bottom, and eventually to release their nutrients back to the water column. Increased phytoplankton concentrations and decreased water clarity have been observed following the use of herbicides in lakes.

Some herbicides are specific to certain plants. The large areas of chara and watermilfoil infestation in the southern end of the lake can be controlled using 2,4-D and copper sulfate ($CuSO_4$), as the lake association has done in the past. Watermilfoil is controlled by 2,4-D doses of 27 pounds per acre-foot and chara can be abated using $CuSO_4$ at three pounds per acre-foot (DOC 1983). $CuSO_4$ should be applied with citric acid, or, the applicator should use one of the chelated forms of copper sulfate on the market. More than one application may be necessary during the growing season.

Application needs to be done according to the manufacturer's instructions, and in Indiana, by licensed applicators. The Lake Association has had an aquatic plant control program in place for several years, but it has been costly, and, the Association is now seeking to implement a long-term control strategy. Aquatic plant control by herbicides and/or dyes may continue as part of that strategy, especially to control aquatic plants in localized areas like beaches and boat docks. (Hand-operated weed harvesters are also available to control plants in localized areas.)

Wetland Creation/Sediment Traps. Wetlands, whether natural or created, are depressed areas, frequently in floodplains, that slow the runoff's travel time to the lake, and allow sediments to settle out. Wetlands support aquatic and hydric terrestrial plants that can aid sedimentation and assimilate nutrients. Newly constructed wetlands may have soils capable of adsorbing large amounts of soluble phosphorus (but once the adsorption capacity of the soil is reached, they lose this capability). By increasing the travel time for the runoff to reach the lake, sedimentation occurs in many wetlands. For these and other reasons, such as wildlife habitat benefits, creation of wetlands is being evaluated here as a lake enhancement method.

The success of wetlands at storing flood water, removing nutrients and sediments, and supporting wildlife is strongly design dependent. Surface area, average depth, hydraulic loading, incoming suspended sediment, vegetation and other factors affect a wetland's effectiveness. Wetland morphology is an important determinant of effectiveness. Deeper wetlands have higher hydraulic retention times and hence higher sedimentation rates, but there is less opportunity for nutrient reaction with wetland soils, the primary nutrient removal mechanism. Richardson (1985) found that phosphorus retention by wetlands can be predicted solely by knowing the extractable aluminum content of the soil; when the wetland soil's phosphorus adsorption capacity is reached, the wetland will become a net exporter of phosphorus. To renew a wetland's phosphorus removal capability, periodic exposure of virgin soils, or addition of P-adsorbing material, is necessary. Because of these factors, we recommend that the design phase address separate compartments in the facilities for sedimentation and nutrient removal as much as possible.

The usefulness of constructed wetlands for reducing sedimentation in Big Turkey Lake was investigated. Appendix D contains the computation details. Table 16 lists significant

data for each. Five sites for wetlands were found where at least a few hundred acre-feet of temporary flood storage could be developed. Another, smaller site was found in subbasin 3.

Deposition in Big Turkey Lake was estimated with and without the new wetlands. For each lake, sediment quantities were routed through the new wetlands and major lakes to get the net amounts at the downstream lake. At each wetland or lake, sedimentation was calculated as sediment discharge times trap efficiency. Sediment discharge comprised sediment outflow from any upstream site times a delivery ratio, plus sediment discharge from the intervening drainage area. Sediment discharge was computed as the product of yield and drainage area.The wetlands were found to decrease deposition in Big Turkey Lake by 46 percent (about 5,600 tons/yr).

Table 16

WETLAND SEDIMENT TRAP DATA

No.	Subbasin No.	Bottom El (ft)	Flood El (ft)	Structure Height (feet)	Size Class	Flooded Area (acres)	Drainage Area (mi^2)	Flooded Volume (ac-ft)
1	9	930	940	10	Medium	81	6.67	400
2	8	928	938	10	Large	405	22.9	1,600
3	6	947	955	8	Small	74	1.91	400
4	4	940	943	3	Small	130	8.42	300
5	3	942	948	6	Small	17	3.59	50
6	1	997	1,010	13	Medium	78	1.03	500

Figure 10 shows the estimated sediment yield curve, comprising suspended sediment plus bedload, in tons per square mile per year, versus net drainage area. From one square mile, for example, the yield is about 900 tons/yr. This yield is based on field measurements and, in general, agrees well with the estimates in Appendix B. The yield in any one year or from a particular subbasin may vary greatly from the average. Figure 10 is based on reservoir, lake, and pond surveys for 9 sites within about 60 miles of Turkey Lakes and draining less than 50 square miles (USDA 1978). The sites lie in Ohio and Michigan near towns 45 to 60 miles away. Yield is independent of the kind of lake the sediment enters. Sediment inflows were computed from the measured sediment deposition rates using Brune's trap efficiency curves for fine sediment or median conditions (ASCE 1975); 6 of the reservoirs' deposits had dry specific weights of only 23 to 54 lb/ft^3, indicating mostly fine materials of clay and silt. There is no significant difference in trap efficiencies for normally-ponded man-made lakes and natural lakes (not including wetlands). The data points show a significant scatter. A least-squares fit gave unrealistic yields for project-sized areas. Thus, the line's slope was fixed at the typical value of -0.12 (ASCE 1975). The curve was drawn biased towards the upper points because much of the watershed above Big Turkey Lake has highly erodible soils. The curve's equation is:

$$Y = 886A^{-0.12} \qquad \text{(Eq. 5)}$$

where A is in mi^2 and Y in $tons/mi^2/yr$. Thus, sediment discharge, in tons/yr, is computed using equation 6:

$$886A^{0.88} \qquad \text{(Eq.6)}$$

Trap efficiency for the wetlands, which would behave similarly to dry reservoirs, was estimated using the approximate wetlands curve in Figure 11. The curve was derived from data for two dry reservoirs (Roehl and Holeman 1973; USDA 1978), two semi-dry reservoirs (Brune 1953), and one wetland (Martin 1988). The curve was drawn parallel to the modified minimum Brune curve (Linsley, et al., 1982) to split the data points and fall somewhat below the small-capacity/inflow-ratio, wetland point. It is uncertain because it is based on the reported suspended solids trap efficiency for storm events of 44-54 percent and because its capacity and inflow (USGS, 1966) are approximate.

Surcharge capacities of the wetlands were estimated from surface areas and heights. Streamflow at the ponds was computed as 680 $ac\text{-}ft/mi^2/yr$ times total drainage area (average streamflow at U.S. Geological Survey gages at Pigeon Cr. near Angola, NB Elkhart R. at Cosperville, and Fish Cr. at Hamilton; USGS 1989).

The delivery ratio, or fraction of sediment outflow from a pond delivered to the next downstream site, was calculated from the drainage areas and the sediment yield curve.

Appendix D shows these calculations. Surface area, volume, and drainage area for the large lakes were taken from USGS (1989). The calculations assume the effects of small lakes are incorporated in the yield equation. Table 17 summarizes the results.

Table 17

SEDIMENTATION WITH AND WITHOUT WETLANDS

Deposition, tons/yr	- without wetlands	12,200
	- with wetlands	6,600
Reduction	- tons/yr	5,600
	- %	46

For cost estimating purposes, we assumed that there are basically three general sizes of sediment traps. The rationale for this lies in the lack of survey data for the wetland sites. A small wetland is five to eight feet deep. A large wetland is ten to 13 feet deep. For wetland numbers 1 and 6, the structure length appeared to be longer than the others, and these were considered to be medium sized structures. Other assumptions include:

1. Each site requires an earth embankment and an overflow weir, or, a steel sheetpile of similar geometry;

2. Small ponds have an embankment ten feet high and 100 feet long. Side slopes are 2.5 to 1. Crest width is 8 feet. Weir length is 25 feet.

3. Large ponds have an embankment 14 feet high and 300 feet long. Side slopes are 2.5 to 1. Crest width is 8 feet. Weir length is 50 feet.

Costs for construction of wetlands/sediment traps are detailed in Appendix D. Small sediment traps are estimated to cost about $49,000 apiece; large sediment traps are estimated at $204,000 each. Medium sized structures are assumed to cost an average of the large and small structures, or about $125,000. These costs include a 30% contingency, 10% engineering fees, and 5% for tests and permits. Assuming the size

classes given in Table 16, total construction cost will be around $600,000. Easements or land acquisition costs will be in addition to these estimates.

The priorities for constructing these wetlands are computed based upon sediment deposition and cost. Table 18 indicates the cost effectiveness for each sediment trap. Sites with the lowest cost per ton of sediment deposited are recommended for earliest construction (i.e. sites 1 through 3).

Table 18

COST EFFECTIVENESS OF WETLANDS FOR TRAPPING SEDIMENT

Site	Sediment Deposition (tons)	Cost	Cost/ton
1	2,700	125,000	$46
2	4,100	204,000	$50
3	1,200	49,000	$41
4	400	49,000	$122
5	400	49,000	$122
6	700	125,000	$179

Wetland creation is not without adverse environmental impacts. Each impounds a stream and will change the existing land use from primarily forest, wetland and cropland to wetland. Productive cropland is lost. Flowing streams and their associated lotic biota are altered. Overall however these ecological impacts are minor, and largely acceptable to regulatory agencies given the expected improvement in lake water quality, wildlife habitat, and soil conservation. Land rights for the constructed wetland sites should be settled prior to initiating design engineering. During the design phase, environmental and permitting studies should be included, namely:

- Survey of the sites for threatened and endangered species and cultural resources
- Identification of permits required for construction
- Computation of the structures' required capacity for passing floodwaters

Additionally, several other tasks will be necessary for design:

- Land survey and soil borings at each site
- Design-level computation of material quantities and cost estimates; preparation of drawings, contract documents and O&M manuals.

Recommendations for Implementation

The Lake Association should consider the recommendations below, choose a course of action, acquire the necessary land rights, and then apply the DNR for Lake Enhancement assistance or the Soil and Water Conservation District for upland watershed treatment (BMPs).

Macrophyte Control. Based upon the above studies of aquatic weed control, harvesting is recommended for future management of the lake's weed problem. A continuation of the herbicide application program is recommended only if the Lake Association is unable to implement a weed harvesting program, either by contract harvesting or by purchase and operation of a harvester. Herbicides should only be applied in areas inaccessible to a harvester, where weed control is desired, such as around boat docks.

Watershed Control. The Lake Association should apply to the "T by 2000" program for design and implementation assistance for construction of wetlands on all tributaries to Big Turkey Lake. Preliminary siting and estimating studies indicate that six wetlands in the watershed will reduce mean annual sedimentation in the lake by about 50%. Three wetland sites are recommended for initial design and construction, as these are the most cost effective.

Best Management Practices (BMPs) should be studied in detail for application in subbasins 6 (Helmer) and 5 (Story Lakes). Sediment yields are high for these areas and, given the large amount of rowcrops grown there, BMP implementation could be quite effective at reducing soil erosion and the associated water quality impacts. The local Soil and Water Conservation District can assist in BMP studies and implementation.

Table 19

COMPARISON OF ALTERNATIVES EVALUATED AT THE THIRD LEVEL OF STUDY

Alternative	Cost	Comment
Aquatic Plants Harvesting	$6,800 in first year; $4,500 in later years	Requires annual harvesting; nutrients and organic matter are removed from the system. Will produce long-term gains in water clarity
Herbicides	$12,000 in 1988 was spent by Lake Association; will increase in succeeding years	No restorative benefits; herbicide application is only appropriate for localized areas inaccessible to harvester, such as marinas or boat docks
Wetlands	$600,000 for six sites; three are recommended for initial design and construction at $378,000	Reduction in sediment loading of 46%; comparable reduction in phosphorus loading
Best Management Practices	Not evaluated	Priority should be given to subbasins 5,6, and 9

CHAPTER 5

LITTLE TURKEY LAKE STUDY AREA

Chapter 5
LITTLE TURKEY LAKE STUDY AREA

Location

Little Turkey Lake is located in Milford Township in the southeastern part of LaGrange County, Indiana (Figure 1). Little Turkey Lake is located on Turkey Creek, a tributary of the Pigeon River. The stream drains into the St. Joseph River and eventually to Lake Michigan.

Lake Characteristics

Little Turkey Lake surface area is reported on a 1957 DNR lake map as 135 acres. The maximum depth of the lake is about 36 feet and average depth some 11.5 feet. Lake volume is 1,550 acre-feet. Based upon these 1957 measurements, mean hydraulic residence time in Little Turkey Lake is about 17 days.

In his preliminary investigation of 24 lakes in LaGrange County, Grant (1988) discussed the historical development of Little Turkey Lake. Grant indicates from his review of a 1830 survey map that Little Turkey Lake did not exist until the early twentieth century, when a cement manufacturer dredged marl from a wetland and created Little Turkey Lake. As mentioned earlier, the cement plant ceased operations in 1941 and its facility at Stroh is no longer evident.

Little Turkey's lake level has been stabilized at El. 925.72 ft msl by the construction of a control structure on the west shore in 1985.

Little Turkey Lake is much less developed than Big Turkey with only 28 permanent homes and 12 seasonal cottages on the lake. Boating and fishing are the primary forms of recreation on the lake.

Watershed Characteristics

Figure 2 is a map of the watershed, and shows the 18 subbasins draining into Little Turkey Lake. Eleven of these subbasins are the same studied in the analysis of Big Turkey Lake's watershed and pollutant loadings. Of the 18 subbasins, two were not studied since they were specifically included as part of another "T by 2000" lake enhancement study: Pretty Lake, #16, and Southwest Watershed, #18. Land use figures from these subbasins were sent to Harza by the "T by 2000" staff.

The area of Little Turkey Lake's watershed is 32,282 acres (50.4 mi^2, 13,064 ha). The watershed drains into Little Turkey Lake largely through an unnamed tributary leading from Mud Lake to the south (referred to hereafter as Mud Lake Creek) and Turkey Creek, which drains Big Turkey Lake and its watershed. Mud Lake Creek drains about 8,410 acres (3,400 ha) and includes subbasins 13, 14, 16, 17, and 18 on Figure 2. Drainage from Mud Lake Creek represents about 26% of the Little Turkey Lake watershed.

Land use in the watershed is tallied in Table 20. Figure 3 is a map of land use in the watershed. Figure 4 and Table 21 indicate the percentages of each land use in the drainage basin. In the 32,282-acre Little Turkey lake watershed, there are 20,381 acres of land being used for rowcrop production. This represents about 61% of the watershed and is the primary use of land. Wetlands and grasslands (CRP "set aside" lands, hayfields, or idle lands) are the second and third most common land uses, at 4,588 acres (14%) and 4,341 acres (13%), respectively. The only other significant land use type in the watershed is forest, estimated at 2,364 acres (7%).

Soils

Figure 5 shows soils considered by the Soil Conservation Service to be highly erodible. Table 22 tallies subbasin areas that are classified as highly erodible, and the acreage of those soils used for rowcrop production during 1989. Much of the lake's total watershed is considered to be composed of soils classified as highly erodible.

Of the subbasins studied downstream of Big Turkey Lake, subbasins 12, 13, and 14 each have about one third of their land classified as HEL. Lower Turkey Creek, because of its low slopes and high occurrence of wetlands, has the lowest percentage of HEL in the entire basin, with 2%.

The percentage of each subbasin's HEL used for row crops ranges from 2% in subbasin 12 (Lower Turkey Creek) to about 40% in subbasin 14 downstream of Pretty Lake. Watershed-wide, about 17% of the HEL are used for row crop production. This represents over 6,000 acres.

Table 20

LAND USE IN THE LITTLE TURKEY LAKE WATERSHED
(acres)

No.	Subbasin	Total Area	Wetland	Urban	Crops	Grass	Forest	Shrub
1	Smathers Ditch	2,517	88	13	1,985	297	134	0
2	Conrad Ditch	446	42	91	250	64	0	0
3	Headwaters	2,299	146	0	1,638	369	124	22
4	Upper Turkey Cr	1,858	108	0	1,364	201	180	6
5	Story Lake	2,083	191	17	743	880	180	72
6	Helmer	3,050	347	43	2,280	289	91	0
7	Limekiln Lake	1,806	280	0	1,060	337	129	0
8	Middle Turkey	1,008	187	0	732	90	0	0
9	Mud Creek	4,418	401	16	2,640	1,055	247	59
10	Henry Lake	396	72	0	253	29	14	28
11	Big Turkey Lake	2,806	837	382	832	448	182	125
12	Lower Turkey Cr	605	114	88	404	0	0	0
13	Mud Lake Creek	732	120	6	489	11	106	0
14	Pretty Lake Cr	428	113	0	283	0	9	24
15	Lit Turkey Lk	845	288	16	361	155	0	25
16	Pretty Lake	1,408	291	125	855	17	122	-
17	Mud Lake	2,389	310	0	1,737	58	215	70
18	SW Watershed	4,185	656	382	2,475	42	630	-
	Total	33,282	4,588	1,178	20,381	4,341	2,364	430

Table 21

LAND USE PERCENTAGES IN THE LITTLE TURKEY LAKE WATERSHED

No.	Subbasin	Total Acreage	Wetland	Urban	Crops	Grass	Forest	Shrub
1	Smathers Ditch	2,517	4	1	79	12	5	0
2	Conrad Ditch	446	9	20	56	14	0	0
3	Headwaters	2,299	6	0	71	16	5	1
4	Upper Turkey Cr	1,858	6	0	73	11	10	0
5	Story Lake	2,083	9	1	36	42	9	3
6	Helmer	3,050	11	1	75	9	3	0
7	Limekiln Lake	1,806	16	0	59	19	7	0
8	Middle Turkey	1,008	19	0	73	9	0	0
9	Mud Creek	4,418	9	0	60	24	6	1
10	Henry Lake	396	18	0	64	7	4	7
11	Big Turkey Lake	2,806	30	14	30	16	6	4
12	Lower Turkey Cr	605	19	14	67	0	0	0
13	Mud Lake Cr	732	16	1	67	2	15	0
14	Pretty Lake Cr	428	26	0	66	0	2	5
15	Lit Turkey Lk	845	34	2	43	18	0	3
16	Pretty Lake	1,408	21	9	61	1	9	-
17	Mud Lake	2,389	13	0	73	2	9	3
18	SW Watershed	4,185	16	9	59	1	15	-
	Total	33,282	14	4	61	13	7	1

Table 22

HIGHLY ERODIBLE LAND (HEL) IN THE LITTLE TURKEY LAKE WATERSHED AND ITS USE FOR PRODUCTION OF CROPS

No.	Subbasin	Total Acreage	HEL (Ac)	HEL (%)	HEL as Cropland (Ac)	HEL as Cropland (%)
1	Smathers Ditch	2,517	874	35	683	27
2	Conrad Ditch	446	237	53	139	31
3	Headwaters	2,299	737	32	556	24
4	Upper Turkey Cr	1,858	474	26	353	19
5	Story Lakes	2,083	1,240	60	426	20
6	Helmer	3,050	1,201	39	964	32
7	Limekiln Lake	1,806	492	27	376	21
8	Middle Turkey	1,008	209	21	137	14
9	Mud Creek	4,418	1,527	35	943	21
10	Henry Lake	396	130	33	93	24
11	Big Turkey Lake	2,806	804	29	300	11
12	Lower Turkey Cr	605	13	2	11	2
13	Mud Lake Cr	732	230	31	120	16
14	Pretty Lake Cr	428	154	36	166	39
15	Lit Turkey Lake	845	284	34	147	17
16	Pretty Lake	1,408	-	-	-	-
17	Mud Lake	2,389	501	21	410	17
	Total	33,282	9,109+	27	5,823+	17

CHAPTER 6

LITTLE TURKEY LAKE AQUATIC RESOURCES

Chapter 6
LITTLE TURKEY LAKE AQUATIC RESOURCES

Methods

Water, sediment, and plankton sampling was performed on the same day using the equipment and procedures described in chapter 3 for Big Turkey Lake. Two algal tows were taken in the center of the lake at the same location sampled for water quality testing, one from a depth of five feet to the surface, the other from the thermocline (13 ft depth) to the surface. Lake water samples were taken between the hours of 2 and 3 pm. Locations of all samples are shown on Figure 6. A composite lake water sample was created by combining equal parts of water taken from five feet deep, 15 feet deep, and 30 feet deep. A composite sediment sample was taken from the southwest end of the lake in six to eight feet of water. Bottles and guidance were provided to a local volunteer to collect storm runoff samples for analysis. These samples were collected on May 16, 1990 at two sites upstream of Big Turkey Lake and at the mouth of Mud Lake Creek.

Fisheries

The Department of Natural Resources (DNR) Division of Fish and Wildlife first surveyed the fish population of Little Turkey Lake in 1977 (DNR 1978). Their survey methods included electrofishing and gill netting. The DNR caught 20 species of fish; bluegill (Lepomis macrochirus) dominated their catch, comprising 48% of the number in the samples. Bowfin was the largest in terms of weight, at 30%. Other fishes captured, in order of decreasing abundance, included pumpkinseed (L. gibbosus, 19%), yellow bullhead (Ictalurus natalis, 8%) and largemouth bass (Micropterus salmoides, 7%). Based on the 1968 survey, and their estimates of fish condition factors, growth rates, and fish sizes, the DNR considered the Little Turkey Lake fishery satisfactory and they did not recommend an additional management at that time.

In 1985, the DNR again surveyed the lake's fish population using gill nets and electrofishing gear (DNR 1985). The 1985 survey also captured 20 species of fish; the same four species dominated the catch. Bluegill was still the most common fish, comprising 65% of the catch. The DNR again reported that the Little Turkey Lake fishery was satisfactory and recommended no further management.

Macrophytes and Plankton

The DNR's 1985 report contained a list of common aquatic macrophytes found in Little Turkey Lake. The list is reprinted below (Table 23). The report states that aquatic macrophytes are diverse, and, by late summer may hinder fishing activity in shallows and bays. The report also states that the vegetation is not detrimental to the sport fishery.

Harza's field inspections verified many of the species listed in Table 23, and, also found duckweed (Lemna sp.) and wildcelery (Vallisneria americana). At the time of Harza's field inspections, watermilfoil and chara were present at nuisance levels in many of the shallows of the lake.

On September 6, 1989 Harza collected and identified plankton in Little Turkey Lake (Table 24). In the samples, blue-green algae (Cyanophyta) constituted 97% of the plankton in the top five feet of the water column and 94% of all plankton in the top thirteen feet of water. This dominance by blue-greens of late summer algal communities is typical for Indiana lakes, and is one variable in the lake trophic index used by the IDEM.

Table 23

AQUATIC PLANTS IN LITTLE TURKEY LAKE
(Source: DNR 1985)

Common Name	Scientific Name
Watermilfoil	Myriophyllum sp.
Sago pondweed	Potamogeton pectinatus
Curlyleaf pondweed	P. crispus
Flat-stemmed pondweed	P. zosteriformis
Vasey's pondweed	P. vaseyi
Richardson's pondweed	P. richardsoni
Coontail	Ceratophyllum sp.
Chara	Chara sp.
Brittle naiad	Najas minor
Bladderwort	Utricularia sp.
Spatterdock	Nuphar advena
White waterlily	Nymphaea tuberosa
Common cattail	Typha latifolia
Soft rush	Juncus sp.
Burreed	Sparganium eurycarpum
Arrowhead	Sagittaria latifolia
Pickerelweed	Pondederia cordata
Spike rush	Eleocharis sp.
Filamentous algae	

Table 24

PLANKTON (units/mL) IN LITTLE TURKEY LAKE, SEPTEMBER 6, 1989

Plankton	13 ft to Surface	5 ft to Surface
CHLOROPHYTA		
Pediastrum simplex	0	1
Ulothrix sp.	7	13
PYRRHOPHYTA		
Ceratium sp.	0	1
BACILLARIOPHYTA		
Fragilario sp.	4	2
Asterionella sp.	0	0
CYANOPHYTA		
Microcystis sp.	25	123
Coelosphaerium sp.	0	78
Oscillatoria sp.	68	207
Anacystis sp.	99	49
Lyngbya sp.	7	19
Anabaena sp.		23
ZOOPLANKTON		
Copepod nauplii	0	0
Daphnia retrocurva	0	0
Daphnia galeata mendotae	0	0
Mesocyclops edax	0	0
Paracyclops fimbriatus	0	0
Keratella cochlearis	0	
Keratella valga	0	
Kellicottia longispina	0	
Diaphanosoma birgei	0	0
Eubosmina coregoni		0
Pompholyx sp.	0	
Total	**210**	**516**

Note: A zero indicates that the plankton specie was identified in the sample but the computation of lake plankton concentrations estimated these species at less than one per mL. The absence of a concentration indicates that specie's absence from that sample.

Water and Sediment Quality

Results of the 1989 lake and stream water quality testing are given in Tables 7 (see chapter 3) and 25. Appendix A includes copies of the analytical reports from the laboratory. As Table 25 indicates, the lake was thermally stratified during the sampling. The top ten feet had abundant oxygen concentrations, with temperatures near 75 degrees F (24 C). Below the ten-foot depth, dissolved oxygen rapidly declined to nearly undetectable limits, and temperature dropped to about 50 degrees (10 C).

Table 25

DISSOLVED OXYGEN AND TEMPERATURE PROFILE MEASURED IN LITTLE TURKEY LAKE ON SEPT 6, 1989

Depth (ft)	Depth (m)	Water Temp (deg F)	Water Temp (deg C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen Saturation (%)
1	0.3	75	23.8	11	136
3	0.9	75	23.8	10.4	128
6	1.8	73	22.5	8	96
9	2.7	72	22	6.6	78
10.5	3.2	71	21.7	5.2	62
12	3.7	70	21.2	2.5	29
13.5	4.1	67	19.5	0.3	3
15	4.6	63	17.2	0.15	2
18	5.5	57	14	0.1	1
21	6.4	54	12		
24	7.3	51	10.8		
27	8.2	51	10.5	0.1	1
30	9.1	50	10.2		
33	10.1	50	10.1		

Little Turkey Lake has water quality similar to Big Turkey Lake: moderately alkaline and fertile. Water clarity, in terms of secchi disk visibility was 3.8 feet (1.1 m) on September 6. This is low clarity. In light of the reported presence of marl in Little Turkey Lake, alkalinity and conductivity were surprisingly low, since marl lakes, by their nature, have high alkalinities and dissolved salt contents.

For comparison to the data presented in Tables 7 (chapter 3) and 25, the State's water quality standards applicable to Little Turkey and Big Turkey Lakes are given in Table 8 (chapter 3). Little Turkey Lake, as evidenced by the inlet samples, the lake may not meet the bacteriological standards in all locations because of watershed sources of coliform bacteria, particularly the Mud Lake outlet. Little Turkey Lake, like all lakes and reservoirs in the State, is legally designated for recreational use (including whole-body contact recreation) and support of warm water aquatic life. Also, the high TKN and phosphorus concentrations in both the baseflow and storm runoff samples taken at this site indicate poor land management practices in that subbasin.

On September 6, 1989, mean water column total phosphorus was 0.04 mg/L, of which about 90% was dissolved ortho phosphorus. As mentioned in chapter 3, marl lakes tend to have low phosphate concentrations. In view of this, ortho-phosphate concentrations were surprisingly high on Sept 6, 1990.

As mentioned earlier, the US EPA considers total phosphorus concentrations above 0.02 mg/L to be indicative of eutrophic lakes; mesotrophic lakes (moderately productive) lakes have 0.01 to 0.02 mg/L, and oligotrophic lakes (low productivity) have total phosphorus concentrations less than 0.01 mg/L. Little Turkey Lake has rather high phosphorus concentrations, and would be considered by the US EPA to be eutrophic. The nitrogen to phosphorus ratio (N:P) was 205. An N:P in this range indicates a phosphorus-limited ecosystem (Wetzel 1983). Most fresh waters are phosphorus limited.

Hypolimnetic (deep) waters of Little Turkey Lake were sampled for comparison with the composite sample. Largely due to the absence of oxygen in bottom waters, ammonia and phosphorus may build up to concentrations much higher than those found in the surface waters. This build up is largely due to the release of nutrients from the sediments, and commonly occurs in Indiana lakes. Hypolimnetic total phosphorus was 0.07 mg/L, compared to 0.04 mg/L in the water column composite sample. Hypolimnetic total ammonia nitrogen was 3.7 mg/L; water column composite total ammonia nitrogen was 1.68 mg/L. It therefore appears from these limited data that phosphorus and ammonia nitrogen are being released from the sediments during summer when the deep waters have low dissolved oxygen (anoxia).

Fecal coliform and streptococcus bacteria are indicators of sewage contamination. These bacteria were at moderate levels in the composite lake sample, but were at higher concentrations in incoming streams. The fecal coliform to fecal streptococcus ratio (FC:FS) is a general indicator of the source of pollution. FC:FS above 4.1 is considered to be indicative of pollution derived from human excrement, whereas FC:FS less than 0.7 suggests pollution due to non-human sources like livestock, wildlife or pets (APHA et al. 1985). The samples in and around Little Turkey Lake had FC:FS ratios of 2, and hence were inconclusive indicators of septic sources.

Of the two major incoming streams, the creek draining Mud Lake into Little Turkey Lake is a much larger source of sediment and nutrient loading to Little Turkey Lake than is Turkey Creek. Big Turkey Lake is a sink for much of upper Turkey Creek's nonpoint source pollutant load. Based upon the concentrations measured on September 6 and May 16, Mud Lake Creek, however, is loading Little Turkey Lake with organic and inorganic nitrogen, phosphorus, and sediment. This creek regularly produces a large delta at its mouth in Little Turkey Lake, and it has been reportedly dredged a number of times in the past to keep it open.

Sediment quality data from this study are given in Table 26. A composite sediment sample was taken from the southwest end of the lake in six to eight feet of water. Again, generalizations about the lake sediment cannot be made from a single sample, but, the sediment sample contained very high nutrient concentrations, specifically, total phosphorus, ammonia nitrogen and Kjeldahl nitrogen. The levels of these three constituents found in the sample are considered to be heavily polluted, according to the US Environmental Protection Agency's classification of Great Lakes harbor sediments (USEPA 1977). Ammonia concentrations greater than 200 ug/g, Kjeldahl nitrogen concentrations more than 2,000 ug/g, or phosphorus concentrations greater than 650 ug/g are considered representative of heavily polluted sediments.

Table 26

RESULTS OF SEDIMENT ANALYSES FOR LITTLE TURKEY LAKE

Parameter	Concentration
Ammonia nitrogen	412 ug/g
Kjeldahl nitrogen	9,050 ug/g
Total phosphorus	1,260 ug/g
Total organic carbon	6,040 ug/g
Particle Size Distribution	
#60 sieve (0.25 mm)	22%
#80 sieve (0.2 mm)	21%
#100 sieve (0.15 mm)	12%
#200 sieve (0.075 mm)	30%
#230 sieve (0.06 mm)	12%
Pan (<0.6 mm)	2%

CHAPTER 7

ENHANCEMENT OF LITTLE TURKEY LAKE

Chapter 7
ENHANCEMENT OF LITTLE TURKEY LAKE

This chapter identifies and evaluates the sources of eutrophication to Little Turkey Lake and assesses available technology for remedying the eutrophication and enhancing the lake.

Lake Eutrophication Index

The Indiana Department of Environmental Management's BonHomme Index (IDEM, 1986) was updated for Little Turkey Lake as part of this study. IDEM (1986) computed a LEI in the mid-1980's for Little Turkey Lake as 36. The updated LEI is 31, a minor improvement. Table 27 details our computation of the LEI, based upon the IDEM system.

Little Turkey Lake remains a Class 2 lake. Class 2 lakes are of intermediate quality, are productive and moving slowly towards senescence, are impacted by anthropogenic activities, and may have problems with aquatic weeds and plankton. The majority of Indiana's lakes are Class 2 lakes. For management purposes, the IDEM considers Little Turkey Lake to be a Group VII A lake (IDEM 1986). In general, lakes of this type do not have water quality problems severe enough to warrant drastic restoration measures, such as lake dredging. Rather, the IDEM recommends that the management priority be limitation of nutrient inputs to the lake.

Nonpoint Source Pollution

Nonpoint source pollution in the lake's watershed was estimated, as described in chapter 4, using a modification of the US Environmental Protection Agency's WATERSHED system (Monteith et al. 1981). For the two subbasins not studied (subbasins 16 and 18), averages of the soils characteristics of the other subbasins were utilized for the computations (i.e. LS, K, and UAL coefficients).

Appendix B contains the spreadsheet computing nonpoint source pollution in the watershed. The results are summarized in Tables 28 and 29.

Subbasin 6, Helmer, has the highest sediment yield, at about two tons per acre. This is due to the high LS factors there (steep, long slopes). Best management practices (BMPs) will likely have the greatest effect in these areas. Other subbasins with high sediment yields are Pretty Lake Creek, Pretty Lake, SW Watershed, Story Lakes, and Headwaters.

Table 27

ISBH LAKE EUTROPHICATION INDEX FOR LITTLE TURKEY LAKE

	Parameter	Measured Value	(units)	Eutrophy Points
I.	Total Phosphorus	0.04	mg/L	2
II.	Dissolved Ortho Phosphorus	0.03	mg/L	1
III.	Organic Nitrogen	0.12	mg/L	0
IV.	Nitrate Nitrogen	0.13	mg/L	0
V.	Ammonia Nitrogen	1.68	mg/L	4
VI.	Dissolved Oxygen Saturation at five feet from surface	98	%	0
VII.	Dissolved Oxygen (% measured water column with >0.1 ppm DO)	45	%	3
VIII.	Light Penetration (Secchi Disk)	3.8	feet	6
IX.	Light Transmision (% transmittance at 3 ft)	24	%	4
X.	Total Plankton			
	Vertical tow, 5 ft to surface	517	cells/mL	1
	Blue-green dominance?	Yes		5
	Vertical tow, from thermocline	211	cells/mL	0
	Blue-green dominance?	Yes		5
			LEI=	31

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Table 29 gives Appendix B and C's estimates of "most likely" mean annual phosphorus loadings to the lake from each subbasin's sources. Croplands represent the largest source of phosphorus to Little Turkey Lake and are about 93% of the total loading of about 5,100 kg/yr. HEL cropland represents about 46% of the total; non-HEL cropland represents about 47%. Smathers Ditch (subbasin 1) is estimated to export the greatest amount of phosphorus, at about 708 kg/yr. About 97% of this is derived from cropland; about two-thirds from non-HEL cropland. The majority of the non-HEL soils in subbasin 1 are silty loams or loams (BnA, CrA) and typically have high phosphorus export coefficients. SW Watershed (subbasin 18), Helmer (subbasin 6) and Mud Creek (subbasin 9) also export large amounts of phosphorus each year (about 659 kg, 644 kg and 609 kg respectively), largely from croplands (both HEL and non-HEL). Best management practices on these croplands can reduce the phosphorus loadings to the lake.

Septic system phosphorus contribution to Little Turkey Lake is estimated to be neglible because of the limited development on the lake. Local planning and zoning officials are encouraged to regulate further development on the lake so that septic systems do not become a significant contributor to the lake's phosphorus budget.

This study also estimated mean annual water column phosphorus concentrations in Little Turkey Lake using Reckhow's empirical model (Reckhow and Chapra, 1983; Reckhow and Simpson, 1980). The model's computations were done using spreadsheet software and are reprinted in Appendix C. The phosphorus model predicts a mean annual water column average total phosphorus concentration of 0.09 mg/L. The 90% confidence limits bounding this estimate are 0.01 mg/L and 0.26 mg/L. Given the mean water column total phosphorus concentration of 0.04 mg/L measured in September, 1989, the 0.09 mg/L estimate and the 90% confidence limits are reasonable. Reckhow considers this level of phosphorus indicative of eutrophic lakes. Based upon this model, as well as the field water quality and other data, Little Turkey Lake, like it's upstream sister, Big Turkey Lake, must be classified as eutrophic, and lacking the chemical and biotic characteristics desired by lake users.

The estimates of the phosphorus model were used to place Little Turkey Lake on Vollenweider's phosphorus loading plot, Figure 9 (Vollenweider 1975). Like Big Turkey Lake, Little Turkey Lake clearly falls in the upper range indicating eutrophic conditions.

Table 28

SEDIMENT YIELD AND PRODUCTION ESTIMATES FOR LITTLE TURKEY LAKE

Subbasin	Subbasin Sediment Yield (t/ac/y)	Subbasin Sediment Production (t/y)	Point of Entry Sediment Yield (t/ac/y)	Point of Entry Sediment Production (t/y)
1 Smather Ditch	0.8	2,006	0.9	4,677
2 Conrad Ditch	1.1	502	0.9	4,677
3 Headwaters	1.4	3,111	0.9	4,677
4 Upper Turkey Cr	0.7	1,216	0.8	10,191
5 Story Lakes	1.3	2,707	1.3	2,707
6 Helmer	1.9	5,821	0.8	10,191
7 Limekiln Lake	0.6	1,173	0.7	10,156
8 Middle Turkey Cr	0.5	532	0.5	10,873
9 Mud Creek	0.5	2,343	0.5	2,343
10 Henry Lake	0.5	196	0.5	10,873
11 Big Turkey Lake	0.4	1,045	0.5	10,873
12 Lower Turkey Cr	0.2	105	0.5	14,386
13 Mud Lake Creek	0.7	524	0.5	14,386
14 Pretty Lake Cr	1.8	791	0.9	1,528
15 Little Turkey Lk	0.8	545	0.5	14,386
16 Pretty Lake	1.3	1,545	0.9	1,528
17 Mud Lake	0.6	1,323	0.7	4,371
18 SW Watershed	1.0	3,727	0.7	4,371

Table 29

PHOSPHORUS LOADINGS (kg/yr) TO LITTLE TURKEY LAKE

Subbasin	Atmospheric Deposition	Septic Systems	Urban Areas	Noncropland	HEL Cropland	Other Cropland	Total
1 Smathers Ditch			3	16	255	435	708
2 Conrad Ditch			22	0	45	23	91
3 Headwaters				16	199	220	434
4 Upper Turkey Cr				11	96	193	301
5 Story Lakes			4	48	164	67	283
6 Helmer			10	-7	363	274	640
7 Limekiln Lake				3	125	124	252
8 Middle Turkey Cr				-10	27	73	90
9 Mud Creek			4	44	261	300	609
10 Henry Lake				-2	20	16	34
11 Big Turkey Lake			93	-28	80	100	256
12 Lower Turkey Cr			21	-9	5	54	70
13 Mud Lake Creek			1	-5	33	48	77
14 Pretty Lake Cr				-8	47	19	58
15 Little Turkey Lk	11	26	4	-2	38	26	103
16 Pretty Lake			30	-17	129	75	217
17 Mud Lake				-10	91	173	254
18 SW Watershed			93	-25	374	217	659
Total	**11**	**26**	**286**	**17**	**2,351**	**2,437**	**5,138**

Note: The absence of a figure indicates that the source is inappropriate for that subbasin. A zero indicates that the source is appropriate, but estimated to be zero.

Evaluation of Lake Enhancement Alternatives

Alternative methods for enhancing Little Turkey Lake were evaluated using the same three-level procedure as described in chapter 4 for Big Turkey Lake: Identification of Alternatives; Screening of Alternatives, and Feasibility Evaluation.

Level One - Identification. The uses of Little Turkey Lake are being affected by the accelerated aging (or cultural eutrophication) of the lake. Because the lake receives less use than Big Turkey, the implications of this eutrophication are less noticeable. Nonpoint source pollution are seriously aging the lake. The mouth of a major inlet (Mud Lake Creek) has been dredged repeatedly in the past to remedy backwater effects. The sediments in the lake are heavily polluted by nutrients. Shallows and bays are infested by watermilfoil and chara to the extent that angling access is limited.

Macrophyte control alternatives are similar to those listed in Table 14 (see chapter 4) for Big Turkey Lake. Likewise, Table 15 in chapter 4 lists in-lake alternatives for reducing phosphorus concentrations.

Level Two - Screening. The initial list of alternatives was screened, and only those determined to be suitable for implementation were carried forward to the feasibility evaluation stage. The criteria for this screening included obvious applicability and utility, unacceptable environmental or social impacts, legal constraints, and unproven technology.

The macrophyte control alternatives carried on to the feasibility level of study were mechanical harvesting and herbicides. Harvesting is the only plant control method that removes nutrients from the lake. These techniques are short-term control methods and must be combined with phosphorus control. Triploid (genetically sterile) grass carp (Ctenopharyngodon idella) should be considered should this alternative ever be permitted in Indiana.

In-lake methods to control phosphorus concentrations are not recommended for further study at this time. In-lake phosphorus control basically involves restriction of sediment-generated or recycled phosphorus and include phosphorus inactivation using aluminum salts, hypolimnetic aeration, and artificial circulation. In lakes with very high internal phosphorus loadings or highly contaminated sediments, sediment removal (dredging) has been used to successfully restore the lake. A side benefit of sediment removal is deepening the lake, so fewer rooted macrophytes are able to grow. At both Big and Little Turkey Lakes, nonpoint sources are the greatest threat at present. And, given the level of incoming pollutants and the high cost of in-lake phosphorus controls, it is strongly recommended that the Lake Association spend its limited resources to control

nutrient and sediment loadings from the watershed in the near to medium term. When the watershed loadings have been reduced to an acceptable level, then in-lake control methods such as aeration or phosphorus inactivation should be specifically studied for implementation, particularly in Little Turkey Lake.

Internal nutrient loading at Little Turkey Lake was not specifically measured. However, the sediments are releasing phosphorus and ammonia nitrogen to the anoxic hypolimnion during summer stratification, as discussed in the previous chapter.

Nonpoint source control of phosphorus inputs to the lake is generally linked with control of soil erosion and sedimentation through Best Management Practices (BMPs) and/or sediment traps. Phosphorus is generally transported in streams adsorbed to soil particles, so removal of the soil particles from the stream system frequently removes incoming phosphorus as well. Wetlands trap sediment and so their creation was carried forward to the feasibility level of study. The US EPA, SCS, and other agencies have developed BMPs for watershed management and lake water quality protection. Many BMPs focus on runoff control, but have coincidental water quality benefits. An example control method already in place is the Conservation Reserve Program, where HELs are taken out of row crop production and set aside for ten years. Nutrient and sediment input to downstream lakes will undoubtedly be reduced because of the CRP set asides in the basin.

Level Three - Feasibility Evaluation.

Weed Harvesting. Harvesting, or cutting and removing rooted aquatic plants, is a well established lake management technique. It has been practiced in Midwestern lakes for many years. Although harvesting is only effective in the short-term, it has some lake restorative value because the plants are removed from the lake. Because they are removed from the lake, the plants do not decompose in the water, consume dissolved oxygen, and release their nutrients to the water column. Macrophyte mowers are available, but they do not remove the vegetation from the lake. Although they are considerably less expensive than harvesters, mowers are not recommended.

Aquatic plant harvesters are available from specialty manufacturers. Alternatively, contract harvesting can be periodically performed. Experience indicates that during the first year of harvesting, spring, mid-summer, and late summer harvesting should be done. After this first year's program, succeeding years' aquatic plant growth is generally less and a single harvesting is sufficient. First year harvesting costs will be approximately $2,100, and costs in succeeding years will be about $1,500. These estimates assume moderate efficiency, ease of access, and, that about 20% of the lake surface is harvested, even though more than that area is covered by macrophytes.

Adverse ecological effects are few. The aquatic plants will return and harvesting will need to be repeated. Harvesting is generally increasingly effective in latter years. With fewer macrophytes, phytoplankton concentrations may increase, and water clarity may decrease. Macrophytes should not be harvested from certain locations, such as the mouths of tributaries for fish habitat and filtration of the incoming water.

Access to the lakefront for offloading harvested plants is somewhat limited on the north shore of the lake. However the lack of development on that shore implies less public use, and minimizes the amount of harvesting that need be done.

Herbicides and Shading. Controlling macrophytes using herbicides is effective, but, as mentioned previously, herbicide use is not lake restoration. Similarly, dyes that decrease light penetration into the water also control plants, but cannot be considered a lake restoration method. Neither of these techniques addresses the causes of plant growth, nor do they remove plant organic matter or nutrients from the lake. These methods cause aquatic plants to die, to decompose on the lake bottom, and to release their nutrients back to the water column.

Some herbicides are specific to certain aquatic plants. Application needs to be done according to the manufacturer's instructions, and in Indiana, by licensed applicators. Weed control by herbicides and/or dyes is a legitimate lake management strategy, but should only be used to control aquatic plants in localized areas like beaches and boat docks. An alternative to localized use of herbicides is use of hand-operated plant harvesters, available from specialty manufacturers.

Wetland Creation. The usefulness of wetland sediment traps for reducing sedimentation in Little Turkey Lake was investigated. Appendix D gives details on location, costs, and sediment routing computations. Table 30 lists some of these data for each. Eight sites for sediment traps were found, two outside of the Big Turkey Lake watershed.

Table 30

WETLAND SEDIMENT TRAP DATA

No.	Subbasin No.	Bottom El (ft)	Flood El (ft)	Structure Height (feet)	Size Class	Flooded Area (acres)	Drainage Area (mi^2)	Flooded Volume (ac-ft)
1	9	930	940	10	Medium	81	6.67	400
2	8	928	938	10	Large	405	22.9	1,600
3	6	947	955	8	Small	74	1.91	400
4	4	940	943	3	Small	130	8.42	300
5	3	942	948	6	Small	17	3.59	50
6	1	997	1,010	13	Medium	78	1.03	500
7	13	928	940	12	Large	333	15.3	1,800
8	17	941	949	8	Small	108	7.04	400

Deposition in Little Turkey Lake was estimated with and without the new wetlands. The wetlands were found to decrease deposition in the lake by 33 percent (about 1400 tons/yr).

The methodology was as described in chapter 4. For each lake, sediment quantities were routed through the new wetlands and major lakes to get the net amounts at the two Turkey lakes. At each wetland or lake, sedimentation was calculated as sediment discharge times trap efficiency. Sediment discharge comprised sediment outflow from any upstream site times a delivery ratio, plus sediment discharge from the intervening drainage area. Sediment discharge equals yield times drainage area.

Appendix D shows the calculations. The calculations assume the effects of small lakes are incorporated in the yield equation. Table 31 summarizes the results.

Table 31

SEDIMENTATION WITH AND WITHOUT WETLANDS

		Big Turkey	Little Turkey
Deposition, tons/yr	- without wetlands	12,200	4,300
	- with wetlands	6,600	2,900
Reduction	- tons/yr	5,600	1,400
	- %	46	33

Cost estimating was performed as described in chapter 4. Costs and materials for construction of wetlands/sediment traps are detailed in Appendix D. Small sediment traps are estimated to cost about $49,000 apiece; large sediment traps are estimated at $204,000 each. Medium sized structures are assumed to cost an average of the large and small structures, or about $125,000. These costs include a 30% contingency, 10% engineering fees, and 5% for tests and permits. Assuming the size classes given in Table 30, total construction cost will be around $854,000, of which about $600,000 are attributable to the six sediment traps upstream of Big Turkey Lake. These estimates do not include costs of land easements or acquisition.

Table 32 provides data on cost effectiveness. Sites 1 through 3 in the Big Turkey Lake watershed are the most cost effective and should be developed first, as recommended in chapter 4. Site 8, on Mud Creek, is also a good investment for controlling that watershed's sediment loadings.

Table 32

COST EFFECTIVENESS OF WETLANDS FOR TRAPPING SEDIMENT

Site	Sediment Deposition (tons)	Cost	Cost/ton
1	2,700	125,000	$46
2	4,100	204,000	$50
3	1,200	49,000	$41
4	400	49,000	$122
5	400	49,000	$122
6	700	125,000	$179
7	600	204,000	$340
8	800	49,000	$61

Wetland creation is not without adverse environmental impacts, as briefly described in chapter 4. These ecological impacts are minor tradeoffs for the expected improvements in lake water quality, wildlife habitat, and soil conservation. During the design phase, environmental and permitting studies should be included, similar to those described in chapter 4.

Recommendations for Implementation

The Lake Association should consider the recommendations of this report (below), then choose a course of action, acquire any land rights needed for construction, and apply to the local SWCD for BMP assistance and/or to the DNR for Lake Enhancement assistance.

Macrophyte Control. Based upon the above studies of aquatic plant control, harvesting is recommended for future management of the lake's plant problem. Herbicide application is recommended only for localized areas receiving high recreational use (e.g. access points). The beneficial effects of aquatic plants should not be ignored by lake users.

Watershed Control. The Lake Association should apply to the "T by 2000" program for design and implementation assistance for construction of wetland sediment traps. Preliminary siting and estimating studies indicate that eight wetlands in the watershed will reduce mean annual sedimentation in the lake by 33%. Four of these wetlands, one

of which is outside of Big Turkey Lake's watershed, should be initially designed and constructed.

Also, given the large percentage of the lake's watershed being devoted to agriculture, Best Management Practices should be studied and implemented in selected areas. This study identified subbasins 3, 5, 6, 9, 16, and 18 as being high sediment producing areas. Priority for BMP implementation should be given to these areas.

Phosphorus Control. After implementation of watershed control programs, the Lake Association should pursue implementation of a phosphorus inactivation or hypolimnetic aeration project. Alum application will produce significant improvements in water clarity for at least five years. No investments are recommended in phosphorus inactivation or aeration until a watershed management and runoff control program has been implemented, such as the construction of wetlands.

Table 33

COMPARISON OF ALTERNATIVES EVALUATED AT THE THIRD LEVEL OF STUDY

Alternative	Cost	Comment
Weed Harvesting	$2,100 in first year; $1,500 in later years	Requires annual harvesting; nutrients and organic matter are removed from the system. Will produce long-term gains in water clarity
Herbicides	Not estimated	No restorative benefits; herbicide application is only appropriate for localized areas inaccessible to harvester, such as marinas or boat docks
Wetlands	$854,000 for eight sites; four are recommended for initial design and construction at a cost of $427,000	Reduction in sediment loading of 33% in Little Turkey and nearly 50% in Big Turkey; comparable reduction in phosphorus loading
Best Management Practices	Not evaluated	Lake Association should approach the local SWCD for advice and assistance; priority should be given to subbasins identified in this report

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FIGURES

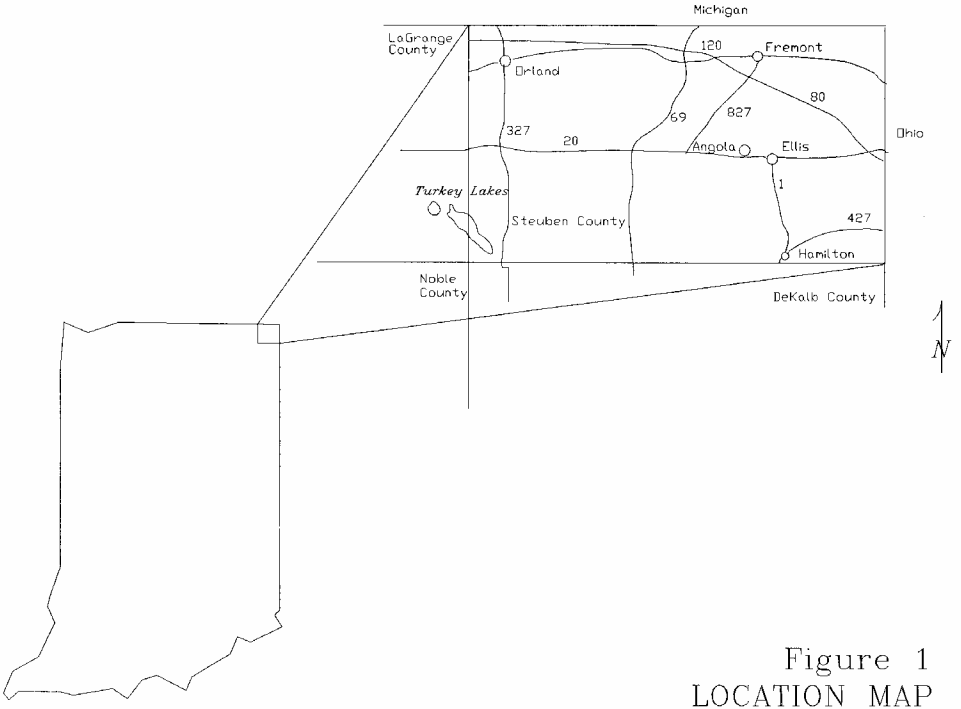

Figure 1
LOCATION MAP

CIRCLED ARE BMP RECOMMENDATIONS

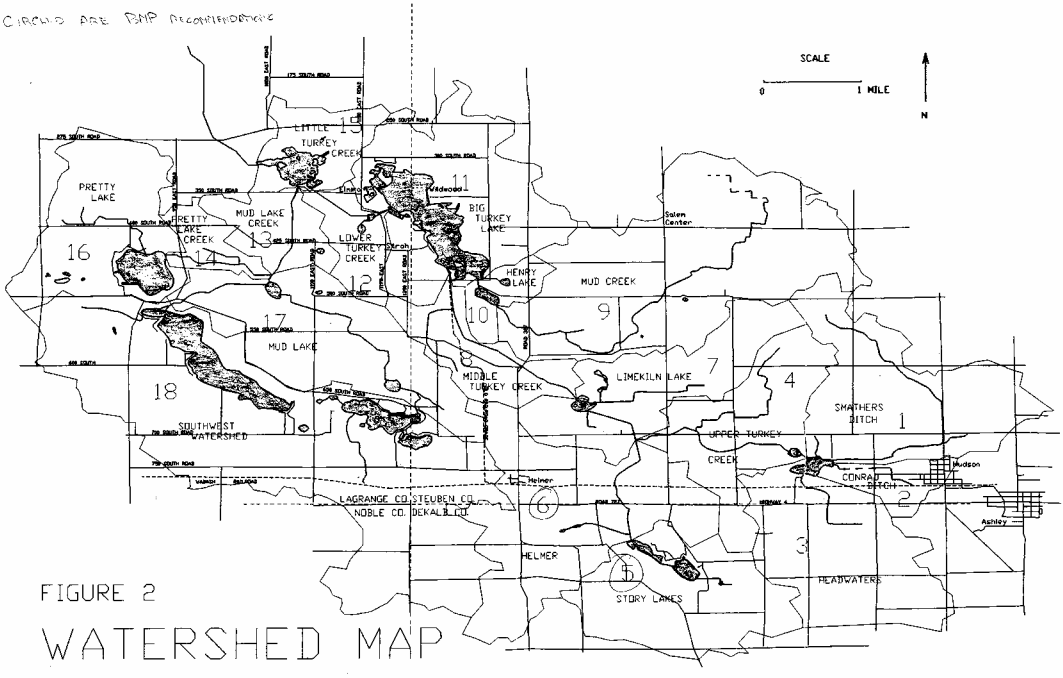

FIGURE 2

WATERSHED MAP

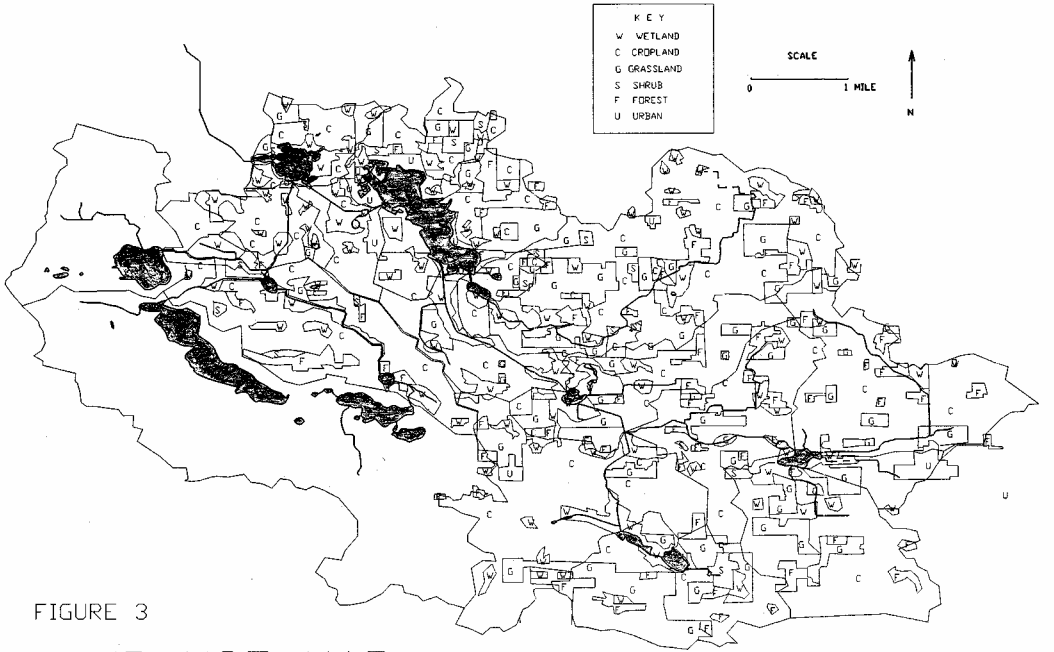

FIGURE 3

LAND USE MAP

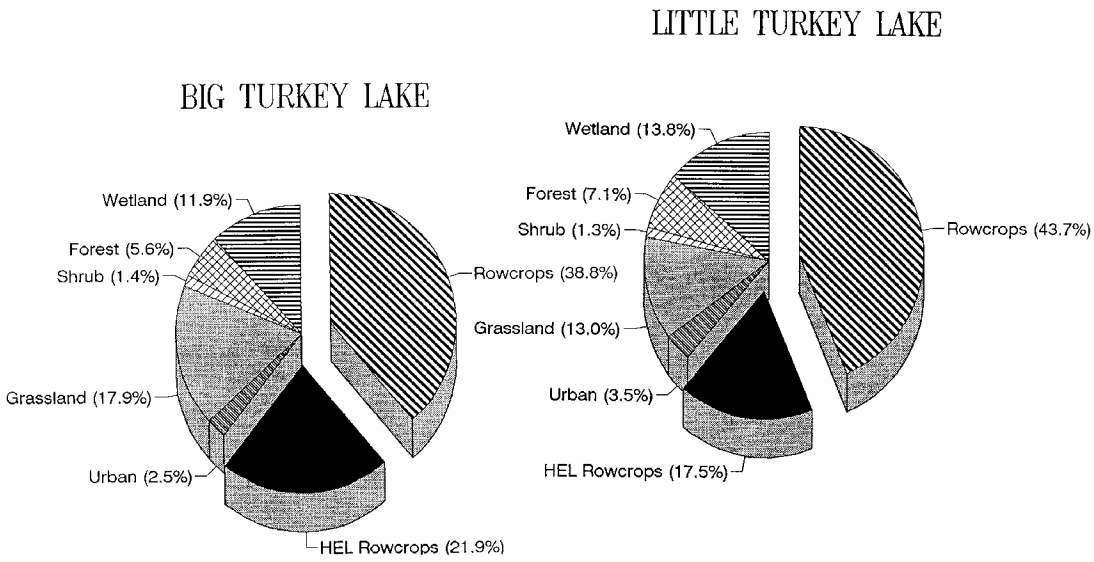

Figure 4
LAND USE IN THE WATERSHEDS

FIGURE 5
HIGHLY ERODIBLE SOILS

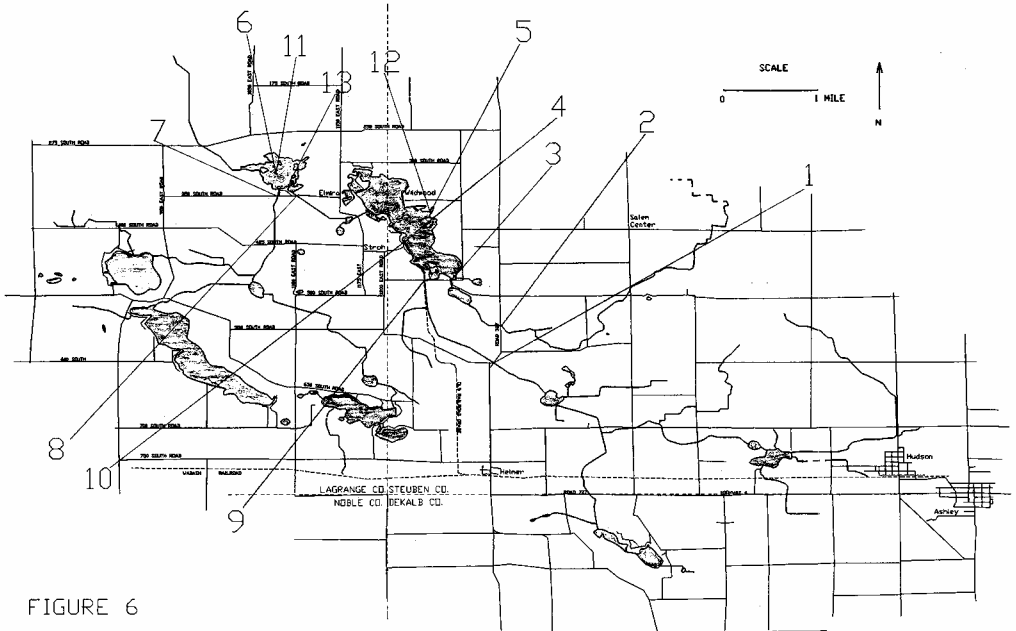

FIGURE 6

WATER QUALITY SAMPLING LOCATIONS

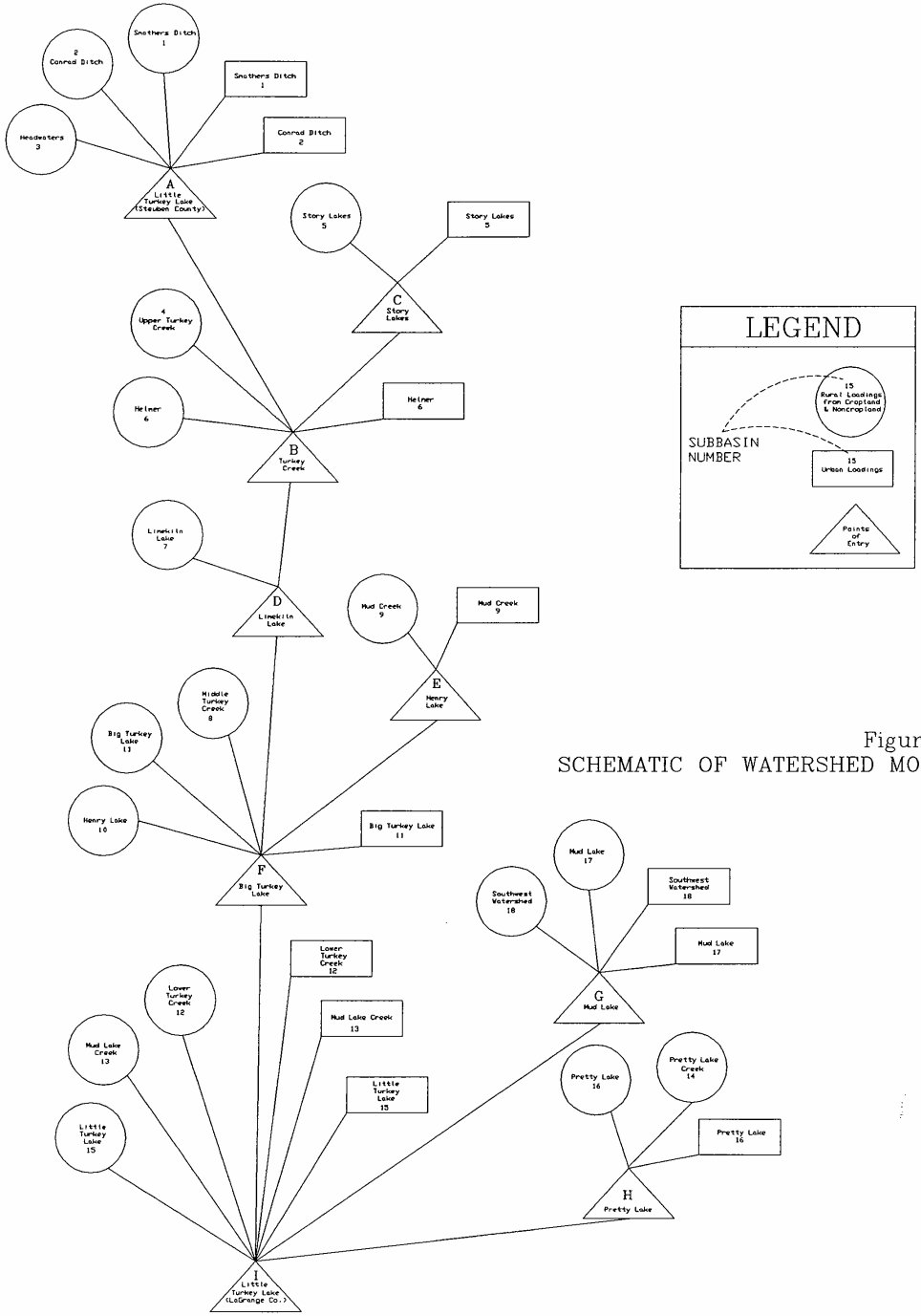

Figure 7
SCHEMATIC OF WATERSHED MODEL

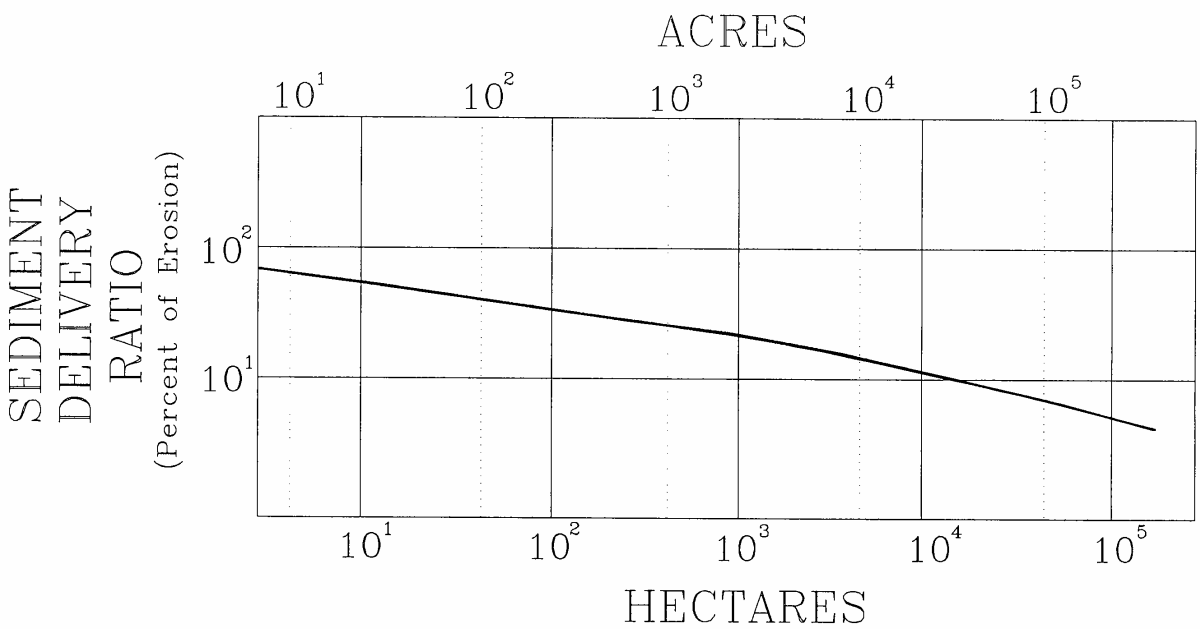

Figure 8
SEDIMENT DELIVERY RATIO
VERSUS DRAINAGE AREA

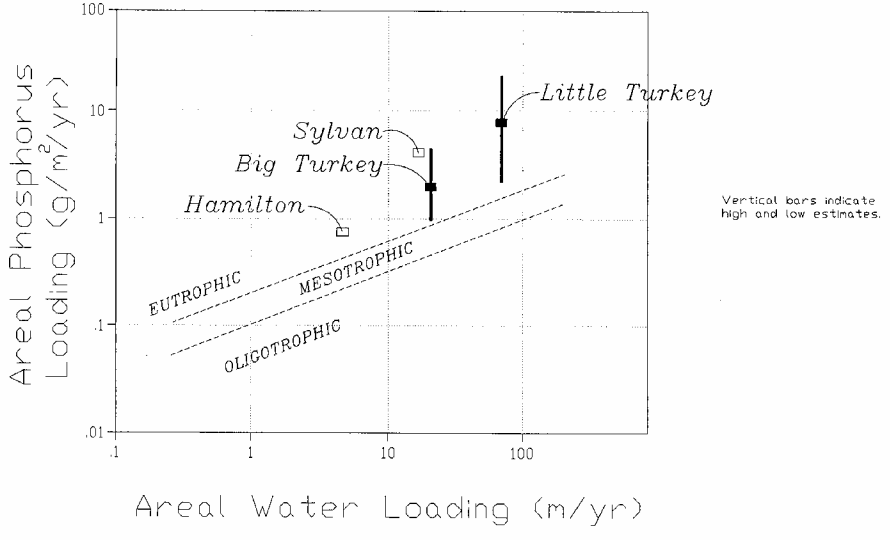

Figure 9
VOLLENWEIDER'S LOADING PLOT

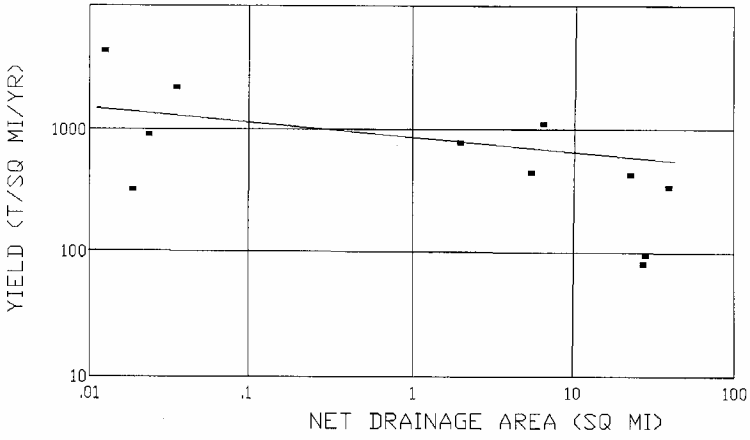

Figure 10
SEDIMENT YIELD,
TURKEY LAKES REGION

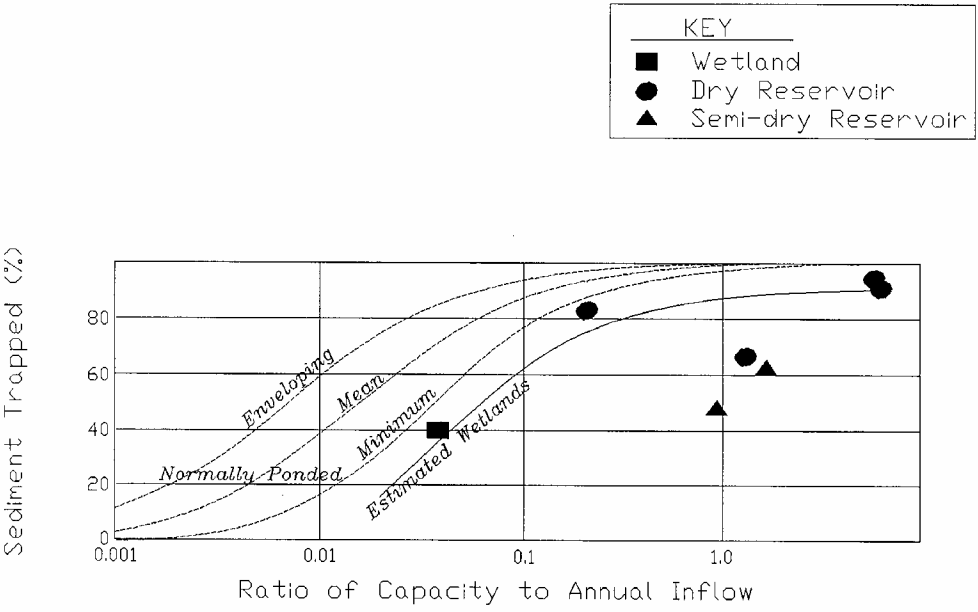

Figure 11
RESERVOIR TRAP EFFICIENCY

APPENDIX A

ANALYTICAL REPORTS

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103
Tel: (312) 289-3100
Fax: (312) 289-4180

ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89559

Sample Description: Little Turkey Lake Sediment
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

Nitrogen, Ammonia	412.	ug/g
Nitrogen, Kjeldahl	9050.	ug/g
Phosphorus, Total	1260.	ug/g
Solids, Total	15.91	%
Total Organic Carbon (TOC)	6040.	ug/g
#100 Sieve	11.97	%
Pan (Fines)	2.30	%
#60 Sieve	21.80	%
#230 Sieve	12.24	%
#200 Sieve	30.28	%
#80 Sieve	20.87	%

William H. Mottashed
Division Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

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Bartlett Division
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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89563

Sample Description: # 4 Big Turkey Lake
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

Nitrogen, Ammonia	0.52	mg/L
Nitrogen, Kjeldahl	1.06	mg/L
Nitrogen, Nitrate	0.34	mg/L
Nitrogen, Nitrite	0.20	mg/L
Phosphate, Ortho	0.02	mg/L
Phosphorus, Total	0.05	mg/L
Solids, Suspended	3.	mg/L
Coliform, Fecal	0.	/100 mL
Streptococcus	9.	/100 mL

W. Mottashed

William H. Mottashed
Division Manager

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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89548

Sample Description: Turkey Creek at SR 327
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

BOD - Five Day	2.	mg/L
Nitrogen, Ammonia	0.44	mg/L
Nitrogen, Kjeldahl	0.67	mg/L
Nitrogen, Nitrate	1.84	mg/L
Nitrogen, Nitrite	0.32	mg/L
Phosphate, Ortho	0.06	mg/L
Phosphorus, Total	0.07	mg/L
Solids, Suspended	7.	mg/L
Coliform, Fecal	130.	/100 mL
Streptococcus	72.	/100 mL

William H. Mottashed
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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89554

Sample Description: Turkey Creek at 475 S
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

BOD - Five Day	3.	mg/L
Nitrogen, Ammonia	0.35	mg/L
Nitrogen, Kjeldahl	0.87	mg/L
Nitrogen, Nitrate	1.95	mg/L
Nitrogen, Nitrite	0.30	mg/L
Phosphate, Ortho	0.07	mg/L
Phosphorus, Total	0.04	mg/L
Solids, Suspended	8.	mg/L
Coliform, Fecal	280.	/100 mL
Streptococcus	100	/100 mL

W. Mottashed

William H. Mottashed
Division Manager

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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89550

Sample Description: Mud Creek at SR 327
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

BOD - Five Day	<1.	mg/L
Nitrogen, Ammonia	0.42	mg/L
Nitrogen, Kjeldahl	0.78	mg/L
Nitrogen, Nitrate	1.36	mg/L
Nitrogen, Nitrite	0.32	mg/L
Phosphate, Ortho	0.14	mg/L
Phosphorus, Total	0.11	mg/L
Solids, Suspended	18.	mg/L
Coliform, Fecal	6250.	/100 mL
Streptococcus	667.	/100 mL

W. Mottashed

William H. Mottashed
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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89551

Sample Description: Mud Creek Between Henry & BT Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

BOD - Five Day	3.	mg/L
Nitrogen, Ammonia	0.28	mg/L
Nitrogen, Kjeldahl	1.13	mg/L
Nitrogen, Nitrate	1.96	mg/L
Nitrogen, Nitrite	0.24	mg/L
Phosphate, Ortho	0.05	mg/L
Phosphorus, Total	0.12	mg/L
Solids, Suspended	6.	mg/L
Coliform, Fecal	80.	/100 mL
Streptococcus	236.	/100 mL

W. Mottashed

William H. Mottashed
Division Manager

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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89557

Sample Description: Culvert at Addison 4
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

Coliform, Fecal	1060.	/100 mL
Streptococcus	1148.	/100 mL

William H. Mottashed
Division Manager

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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89553

Sample Description: Turkey Creek at 350 S
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

BOD - Five Day	2.	mg/L
Nitrogen, Ammonia	0.25	mg/L
Nitrogen, Kjeldahl	0.87	mg/L
Nitrogen, Nitrate	0.22	mg/L
Nitrogen, Nitrite	0.05	mg/L
Phosphate, Ortho	0.03	mg/L
Phosphorus, Total	0.03	mg/L
Solids, Suspended	5.	mg/L
Coliform, Fecal	190.	/100 mL
Streptococcus	109.	/100 mL

W. Mottashed

William H. Mottashed
Division Manager

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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89556

Sample Description: Little Turkey Lake Hypolimion
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

Nitrogen, Ammonia	3.70	mg/L
Phosphorus, Total	0.07	mg/L

W. Mottashed

William H. Mottashed
Division Manager

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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89552

Sample Description: Mud Lake Outlet
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

BOD - Five Day	5.	mg/L
Nitrogen, Ammonia	0.33	mg/L
Nitrogen, Kjeldahl	1.21	mg/L
Nitrogen, Nitrate	0.29	mg/L
Nitrogen, Nitrite	0.23	mg/L
Phosphate, Ortho	0.04	mg/L
Phosphorus, Total	0.11	mg/L
Solids, Suspended	23.	mg/L
Coliform, Fecal	600.	/100 mL
Streptococcus	249.	/100 mL

W. Mottashed
William H. Mottashed
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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89549

Sample Description: Little Turkey Lake
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

Nitrogen, Ammonia	1.68	mg/L
Nitrogen, Kjeldahl	1.80	mg/L
Nitrogen, Nitrate	0.13	mg/L
Nitrogen, Nitrite	0.10	mg/L
Phosphate, Ortho	0.09	mg/L
Phosphorus, Total	0.04	mg/L
Solids, Suspended	5.	mg/L
Coliform, Fecal	140.	/100 mL
Streptococcus	72.	/100 mL

William H. Mottashed
Division Manager

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ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89558

Sample Description: Big Turkey Lake Sediment
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

Nitrogen, Ammonia	628.	ug/g
Nitrogen, Kjeldahl	7360.	ug/g
Phosphorus, Total	1250.	ug/g
Solids, Total	20.64	%
Total Organic Carbon (TOC)	6380.	ug/g
#100 Sieve	16.25	%
Pan (Fines)	0.00	%
#60 Sieve	14.03	%
#230 Sieve	17.66	%
#200 Sieve	34.17	%
#80 Sieve	17.88	%

W. Mottashed
William H. Mottashed
Division Manager

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Fax: (312) 289-4180

ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

10-11-89

Sample No.: 89555

Sample Description: Big Turkey Lake Hypolimnion
Turkey Lakes

Date Taken: 09-06-89

Date Received: 09-07-89 0800

Nitrogen, Ammonia	0.90	mg/L
Phosphorus, Total	<0.01	mg/L

William H. Mottashed
Division Manager

☐ 2621 Ridgepoint
Austin TX 78754
512-928-8905

☑ 850 West Bartlett Rd.
Bartlett IL 60103
312-289-3100

☐ 222 South Morgan
Chicago IL 60607
312-666-4469

☐ 3548 35th St.
Rockford IL 61109
815-874-2171

CHAIN OF CUSTODY RECORD

Client: Harza Engineering Co.
Project: Turkey Lakes
Sampler(s): D Pott

Number	Sampling Location	Date	Time	Composite	Grab	No. of Bottles	Remarks
1	Turkey Creek at SR 327	9/6			X	4	clean surface water
2	Mud Creek at SR 327	9/6			X	4	" " "
3	Mud Creek between Henry & BT	9/6			X	4	" " "
4	Big Turkey Lake	9/6		X		1	" " "
5	Culvert at Addition 4	9/6			X	1	septic ?
6	Little Turkey Lake	9/6		X		4	clean water
7	Mud Lake Outlet	9/6			X	4	" "
8	Turkey Creek at 350 S	9/6			X	4	" "
9	Turkey Creek at 475 S	9/6			X	4	" "
10	Big Turkey Lake Hypolimnion	9/6			X	1	" "
11	Little Turkey Lake Hypolimnion	9/6			X	1	" "
12	Big Turkey Lake sediment	9/6		X		1	clear sediment
13	Little " " "	9/6		X		1	" "

Relinquished By	Received By	Date	Time
David B Pott		9/7	8 am

Shipping Notes	Received For Aqualab By		
	Patti Rapp	9/7/87	0800

140

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

Tel: (708) 289-3100
Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

06-06-90

Sample No.: 109905

Sample Description: #2 Big Turkey SW Inlet
Big-Little Turkey

Date Taken: 05-16-90 1030

Date Received: 05-18-90 1005

BOD - Five Day	3.	mg/L
Nitrogen, Kjeldahl	0.76	mg/L
Phosphorus, Total	0.17	mg/L
Solids, Suspended	123.	mg/L

Toni Gartner
Division Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

Tel: (708) 289-3100
Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

06-06-90

Sample No.: 109906

Sample Description: #3 Little Turkey SW Inlet
Big-Little Turkey

Date Taken: 05-16-90 1100

Date Received: 05-18-90 1005

BOD - Five Day	3.	mg/L
Nitrogen, Kjeldahl	2.23	mg/L
Phosphorus, Total	0.17	mg/L
Solids, Suspended	107.	mg/L

Toni Gartner
Division Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

Tel: (708) 289-3100
Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. David Pott
HARZA ENGINEERING CO.
150 So. Wacker Drive
Chicago IL 60606

06-06-90

Sample No.: 109904

Sample Description: #1 Big Turkey SE Inlet
Big-Little Turkey

Date Taken: 05-16-90 1040

Date Received: 05-18-90 1005

BOD - Five Day	3.	mg/L
Nitrogen, Kjeldahl	1.61	mg/L
Phosphorus, Total	0.25	mg/L
Solids, Suspended	150.	mg/L

Toni Gartner
Division Manager

aqualab inc.

☐ 2621 Ridgepoint Austin TX 78754 512-928-8905	☐ 850 West Bartlett Rd. Bartlett IL 60103 312-289-3100	☐ 222 South Morgan Chicago IL 60607 312-666-4469	☐ 3548 35th St. Rockford IL 61109 815-874-2171

CHAIN OF CUSTODY RECORD

Client: HARZA Engineering

Project: Big-Little Turkey

Sampler(s): Bill GRANT

Number	Sampling Location	Date	Time	Composite	Grab	No. of Bottles	Remarks
1	Big Turkey - SE Inlet	5/16/90	10:40		X	2	
2	Big Turkey - SW Inlet	5/16/90	10:30		X	2	
3	Little Turkey SW Inlet	5/16/90	11:20		X	2	

Relinquished By	Received By	Date	Time

Shipping Notes	Received For Aqualab By		
	Beth E. Ribbon	5/18/90	1005

140

APPENDIX B

NONPOINT SOURCE POLLUTION MODELS

Big Turkey Lake NPS Model

Subbasin No.	Name	Source	Position	Point of Entry	Area (ha)	Surface Features Soils	Urban Area (ha)	Export Coefficient (kg/ha-yr)	Total Urban P Load (kg/yr)	Atmospheric Deposition Area (ha)	Export Coefficient (kg/ha-yr)	P Load (kg/yr)
1	Smathers Ditch	Cropland	1	A	803							
1	Smathers Ditch	Noncropland	2	A	210							
1	Smathers Ditch	Urban land	3	A	5		5	0.6	3			
2	Conrad Ditch	Cropland	4	A	101							
2	Conrad Ditch	Noncropland	5	A	43							
2	Conrad Ditch	Urban land	6	A	37		37	0.6	22			
3	Headwaters	Cropland	7	A	663							
3	Headwaters	Noncropland	8	A	268							
4	Upper Turkey Creek	Cropland	9	B	552							
4	Upper Turkey Creek	Noncropland	10	B	200							
5	Story Lakes	Cropland	11	C	300							
5	Story Lakes	Noncropland	12	C	535							
5	Story Lakes	Urban land	13	C	7		7	0.6	4			
6	Helmer	Cropland	14	B	923							
6	Helmer	Noncropland	15	B	294							
6	Helmer	Urban land	16	B	17		17	0.6	10			
7	Limekiln Lake	Cropland	17	D	429							
7	Limekiln Lake	Noncropland	18	D	302							
8	Middle Turkey Creek	Cropland	19	F	296							
8	Middle Turkey Creek	Noncropland	20	F	112							
9	Mud Creek	Cropland	21	E	1058							
9	Mud Creek	Noncropland	22	E	713							
9	Mud Creek	Urban land	23	E	6		6	0.6	4			
10	Henry Lake	Cropland	24	F	102							
10	Henry Lake	Noncropland	25	F	58							
11	Big Turkey Lake	Urban land	26	F	155		155	0.6	93			
11	Big Turkey Lake	Cropland	27	F	337							
11	Big Turkey Lake	Noncropland	28	F	644					182	0.2	36
					9,182		227		136	182		36

Subbasin No.	Name	Source	Position	Point of Entry	Area (ha)	Septic System Sources: Permanent Residences # of Homes	# of Persons	Days/ Year	Capita-Years	Seasonal Residences # of Homes	# of Persons	Days/ Year	Capita-Years	Soil Retention Coefficient	Export Coefficient (kg/cap-yr)	Septic P Load (kg/yr)
1	Smathers Ditch	Cropland	1	A	803											
1	Smathers Ditch	Noncropland	2	A	210											
1	Smathers Ditch	Urban land	3	A	5											
2	Conrad Ditch	Cropland	4	A	101											
2	Conrad Ditch	Noncropland	5	A	43											
2	Conrad Ditch	Urban land	6	A	37											
3	Headwaters	Cropland	7	A	663											
3	Headwaters	Noncropland	8	A	268											
4	Upper Turkey Creek	Cropland	9	B	552											
4	Upper Turkey Creek	Noncropland	10	B	200											
5	Story Lakes	Cropland	11	C	300											
5	Story Lakes	Noncropland	12	C	535											
5	Story Lakes	Urban land	13	C	7											
6	Helmer	Cropland	14	B	923											
6	Helmer	Noncropland	15	B	294											
6	Helmer	Urban land	16	B	17											
7	Limekiln Lake	Cropland	17	D	429											
7	Limekiln Lake	Noncropland	18	D	302											
8	Middle Turkey Creek	Cropland	19	F	296											
8	Middle Turkey Creek	Noncropland	20	F	112											
9	Mud Creek	Cropland	21	E	1068											
9	Mud Creek	Noncropland	22	E	713											
9	Mud Creek	Urban land	23	E	6											
10	Henry Lake	Cropland	24	F	102											
10	Henry Lake	Noncropland	25	F	58											
11	Big Turkey Lake	Urban land	26	F	155	121	325	365	325	188	772	25	53	0.5	0.7	132
11	Big Turkey Lake	Cropland	27	F	337											
11	Big Turkey Lake	Noncropland	28	F	644											
					9,182	121	325	365	325	188	772	25	53			132

Subbasin No.	Name	Source	Point of Entry Position		Area (ha)	Grasslands Area (ha)	Grasslands Export Coefficient (kg/ha-yr)	Grasslands P Load (kg/yr)	Wetlands Area (ha)	Wetlands Export Coefficient (kg/ha-yr)	Wetlands P Load (kg/yr)	Shrubland Area (ha)	Shrubland Export Coefficient (kg/ha-yr)	Shrubland P Load (kg/yr)	Forests Area (ha)	Forests Export Coefficient (kg/ha-yr)	Forests P Load (kg/yr)	Total Non-cropland P Load (kg/yr)
1	Smathers Ditch	Cropland	1	A	803													
1	Smathers Ditch	Noncropland	2	A	210	120	0.15	18	35.6	-0.2	-7	0	0.1	0	54	0.1	5	16
1	Smathers Ditch	Urban Land	3	A	5													
2	Conrad Ditch	Cropland	4	A	101													
2	Conrad Ditch	Noncropland	5	A	43	26	0.15	4	17.0	-0.2	-3	0	0.1	0	0	0.1	0	0
2	Conrad Ditch	Urban Land	6	A	37													
3	Headwaters	Cropland	7	A	663													
3	Headwaters	Noncropland	8	A	268	149	0.15	22	59.1	-0.2	-12	9	0.1	1	50	0.1	5	16
4	Upper Turkey Creek	Cropland	9	B	552													
4	Upper Turkey Creek	Noncropland	10	B	200	81	0.15	12	43.7	-0.2	-9	2	0.1	0	73	0.1	7	11
5	Story Lakes	Cropland	11	C	300													
5	Story Lakes	Noncropland	12	C	535	356	0.15	53	77.3	-0.2	-15	29	0.1	3	73	0.1	7	48
5	Story Lakes	Urban Land	13	C	7													
6	Helmer	Cropland	14	B	923													
6	Helmer	Noncropland	15	B	294	117	0.15	18	140.4	-0.2	-28	0	0.1	0	37	0.1	4	-7
6	Helmer	Urban Land	16	B	17													
7	Limekiln Lake	Cropland	17	D	429													
7	Limekiln Lake	Noncropland	18	D	302	136	0.15	20	113.3	-0.2	-23	0	0.1	0	52	0.1	5	3
8	Middle Turkey Creek	Cropland	19	F	296													
8	Middle Turkey Creek	Noncropland	20	F	112	36	0.15	5	75.7	-0.2	-15	0	0.1	0	0	0.1	0	-10
9	Mud Creek	Cropland	21	E	1068													
9	Mud Creek	Noncropland	22	E	713	427	0.15	64	162.3	-0.2	-32	24	0.1	2	100	0.1	10	44
9	Mud Creek	Urban Land	23	E	6													
10	Henry Lake	Cropland	24	F	102													
10	Henry Lake	Noncropland	25	F	58	12	0.15	2	29.1	-0.2	-6	11	0.1	1	6	0.1	1	-2
11	Big Turkey Lake	Urban Land	26	F	155													
11	Big Turkey Lake	Cropland	27	F	337													
11	Big Turkey Lake	Noncropland	28	F	644	181	0.15	27	156.6	-0.2	-31	51	0.1	5	74	0.1	7	8
					9,182	1,643		246	910		-182	126		13	518		52	129

Big Turkey Lake NPS Model

Subbasin No.	Name	Source	Point of Position	Entry	Area (ha)	Highly Erodible Soils: Area (ha)	Area (acres)	Universal Soil Loss Equation Coefficients: Rainfall & Runoff R	Soil Erodibility K	Topo-graphic LS	Cover & Managm'nt C	Support Practice P	Soil Loss A (t/ac/yr)	Soil Loss A (mt/ha/yr)	Gross Erosion (mt/yr)	Weighted P UAL Coefficient (kg/ha-yr)	P Loading (kg/yr)
1	Smathers Ditch	Cropland	1	A	803	276	683	140	0.39	0.825	0.21	1	9	21	5,701	0.9	255
1	Smathers Ditch	Noncropland	2	A	210												
1	Smathers Ditch	Urban land	3	A	5												
2	Conrad Ditch	Cropland	4	A	101	56	139	140	0.34	1.013	0.21	1	10	23	1,313	0.8	45
2	Conrad Ditch	Noncropland	5	A	43												
2	Conrad Ditch	Urban land	6	A	37												
3	Headwaters	Cropland	7	A	663	225	556	140	0.35	1.882	0.25	1	23	51	11,488	0.9	199
3	Headwaters	Noncropland	8	A	268												
4	Upper Turkey Creek	Cropland	9	B	552	143	353	140	0.27	1.193	0.21	1	9	21	3,033	0.7	96
4	Upper Turkey Creek	Noncropland	10	B	200												
5	Story Lakes	Cropland	11	C	300	172	426	140	0.38	2.170	0.25	1	29	66	11,297	1.0	164
5	Story Lakes	Noncropland	12	C	535												
5	Story Lakes	Urban land	13	C	7												
6	Helmer	Cropland	14	B	923	390	964	140	0.39	2.084	0.23	1.0	27	59	23,211	0.9	363
6	Helmer	Noncropland	15	B	294												
6	Helmer	Urban land	16	B	17												
7	Limekiln Lake	Cropland	17	D	429	152	376	140	0.29	1.280	0.21	1	11	24	3,707	0.8	125
7	Limekiln Lake	Noncropland	18	D	302												
8	Middle Turkey Creek	Cropland	19	F	296	55	137	140	0.19	1.786	0.21	1	10	23	1,254	0.5	27
8	Middle Turkey Creek	Noncropland	20	F	112												
9	Mud Creek	Cropland	21	E	1068	382	943	140	0.26	1.300	0.21	1	10	22	8,576	0.7	261
9	Mud Creek	Noncropland	22	E	713												
9	Mud Creek	Urban land	23	E	6												
10	Henry Lake	Cropland	24	F	102	38	93	140	0.20	2.119	0.21	1	12	28	1,044	0.5	20
10	Henry Lake	Noncropland	25	F	58												
11	Big Turkey Lake	Urban land	26	F	155												
11	Big Turkey Lake	Cropland	27	F	337	121	300	140	0.23	1.894	0.21	1	13	29	3,574	0.7	80
11	Big Turkey Lake	Noncropland	28	F	644												
					9,182	2,011	4,970								74,198	0.81	1,635

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Subbasin No.	Name	Source	Position	Point of Entry	Area (ha)	Area (ha)	Area (acres)	Other Soils Universal Soil Loss Equation Coefficients Rainfall & Runoff R	Soil Erodibility K	Topo-graphic LS	Cover & Managmnt C	Support Practice P	Soil Loss (t/ac/yr) A	Soil Loss (mt/ha/yr) A	Gross Erosion (mt/yr)	Weighted P UAL Coefficient (kg/ha-yr)	P Loading (kg/yr)
1	Smathers Ditch	Cropland	1	A	803	527	1,302	140	0.3284	0.2657	0.21	1	3	6	2,966	0.8	435
1	Smathers Ditch	Noncropland	2	A	210												
1	Smathers Ditch	Urban land	3	A	5												
2	Conrad Ditch	Cropland	4	A	101	45	111	140	0.2930	0.1791	0.21	1	2	3	155	0.5	23
2	Conrad Ditch	Noncropland	5	A	43												
2	Conrad Ditch	Urban land	6	A	37												
3	Headwaters	Cropland	7	A	663	438	1,082	140	0.2348	0.2466	0.25	1	2	4	1,956	0.5	220
3	Headwaters	Noncropland	8	A	268												
4	Upper Turkey Creek	Cropland	9	B	552	409	1,011	140	0.2226	0.3305	0.21	1	2	5	1,981	0.5	193
4	Upper Turkey Creek	Noncropland	10	B	200												
5	Story Lakes	Cropland	11	C	300	128	316	140	0.2359	0.1670	0.25	1	1	3	400	0.5	67
5	Story Lakes	Noncropland	12	C	535												
5	Story Lakes	Urban land	13	C	7												
6	Helmer	Cropland	14	B	923	533	1,316	140	0.2153	0.3046	0.23	1	2	5	2,554	0.5	274
6	Helmer	Noncropland	15	B	294												
6	Helmer	Urban land	16	B	17												
7	Limekiln Lake	Cropland	17	D	429	277	684	140	0.2260	0.2806	0.21	1	2	4	1,132	0.4	124
7	Limekiln Lake	Noncropland	18	D	302												
8	Middle Turkey Creek	Cropland	19	F	296	241	595	140	0.1428	0.2712	0.21	1	1	3	603	0.3	73
8	Middle Turkey Creek	Noncropland	20	F	112												
9	Mud Creek	Cropland	21	E	1068	687	1,697	140	0.1883	0.3136	0.21	1	2	4	2,616	0.4	300
9	Mud Creek	Noncropland	22	E	713												
9	Mud Creek	Urban land	23	E	6												
10	Henry Lake	Cropland	24	F	102	65	160	140	0.0680	0.2830	0.21	1	1	1	80	0.2	16
10	Henry Lake	Noncropland	25	F	58												
11	Big Turkey Lake	Urban land	26	F	155												
11	Big Turkey Lake	Cropland	27	F	337	215	532	140	0.2117	0.354	0.21	1	2	5	1,050	0.5	100
11	Big Turkey Lake	Noncropland	28	F	644												
					9,182	3,564	8,806								15,494	0.51	1,825

Big Turkey Lake NPS Model

Subbasin No.	Name	Source	Point of Entry Position		Area (ha)	Total Cropland Gross Erosion (mt/yr)	Average Cropland Soil Loss (t/ac/yr)	Average Subbasin Soil Loss (t/ac/yr)	Subbasin Sediment Delivery Ratio	Subbasin Sediment Yield (t/ac/yr)	Subbasin Sediment Production (t/yr)	Point of Entry Sediment Delivery Ratio	Point of Entry Sediment Yield (t/ac/yr)	Point of Entry Sediment Productio (t/yr)	Total P Loading (kg/yr)
1	Smathers Ditch	Cropland	1	A	803	8,666	5	4	21%	0.8	2,006	18%	0.9	4,677	699
1	Smathers Ditch	Noncropland	2	A	210			4	21%	0.8	2,006	18%	0.9	4,677	16
1	Smathers Ditch	Urban Land	3	A	5			4	21%	0.8	2,006	18%	0.9	4,677	3
2	Conrad Ditch	Cropland	4	A	101	1,469	6	4	31%	1.1	502	18%	0.9	4,677	69
2	Conrad Ditch	Noncropland	5	A	43			4	31%	1.1	502	18%	0.9	4,677	0
2	Conrad Ditch	Urban Land	6	A	37			4	31%	1.1	502	18%	0.9	4,677	22
3	Headwaters	Cropland	7	A	663	13,444	9	6	21%	1.4	3,111	18%	0.9	4,677	418
3	Headwaters	Noncropland	8	A	268			6	21%	1.4	3,111	18%	0.9	4,677	16
4	Upper Turkey Creek	Cropland	9	B	552	5,014	4	3	22%	0.7	1,216	14%	0.8	10,191	290
4	Upper Turkey Creek	Noncropland	10	B	200			3	22%	0.7	1,216	14%	0.8	10,191	11
5	Story Lakes	Cropland	11	C	300	11,698	17	6	21%	1.3	2,707	21%	1.3	2,707	231
5	Story Lakes	Noncropland	12	C	535			6	21%	1.3	2,707	21%	1.3	2,707	48
5	Story Lakes	Urban Land	13	C	7			6	21%	1.3	2,707	21%	1.3	2,707	4
6	Helmer	Cropland	14	B	923	25,765	12	9	21%	1.9	5,821	14%	0.8	10,191	637
6	Helmer	Noncropland	15	B	294			9	21%	1.9	5,821	14%	0.8	10,191	-7
6	Helmer	Urban Land	16	B	17			9	21%	1.9	5,821	14%	0.8	10,191	10
7	Limekiln Lake	Cropland	17	D	429	4,840	5	3	22%	0.6	1,173	13%	0.7	10,156	249
7	Limekiln Lake	Noncropland	18	D	302			3	22%	0.6	1,173	13%	0.7	10,156	3
8	Middle Turkey Creek	Cropland	19	F	296	1,857	3	2	26%	0.5	532	11%	0.5	10,873	100
8	Middle Turkey Creek	Noncropland	20	F	112			2	26%	0.5	532	11%	0.5	10,873	-10
9	Mud Creek	Cropland	21	E	1058	11,193	5	3	19%	0.5	2,343	19%	0.5	2,343	561
9	Mud Creek	Noncropland	22	E	713			3	19%	0.5	2,343	19%	0.5	2,343	44
9	Mud Creek	Urban Land	23	E	6			3	19%	0.5	2,343	19%	0.5	2,343	4
10	Henry Lake	Cropland	24	F	102	1,125	5	2	31%	0.5	196	11%	0.5	10,873	36
10	Henry Lake	Noncropland	25	F	58			2	31%	0.5	196	11%	0.5	10,873	-2
11	Big Turkey Lake	Urban Land	26	F	155			2	31%	0.4	1,045	11%	0.5	10,873	225
11	Big Turkey Lake	Cropland	27	F	337	4,624	6	2	21%	0.4	1,045	11%	0.5	10,873	180
11	Big Turkey Lake	Noncropland	28	F	644			2	21%	0.4	1,045	11%	0.5	10,873	45
					9,182	89,692								10,873	3,893

Little Turkey Lake NPS Model

Subbasin No.	Name	Source	Position	Point of Entry	Area (ha)	Surface Features Soils	Urban Area (ha)	Export Coefficient (kg/ha-yr)	Total Urban P Load (kg/yr)	Atmospheric Deposition Area (ha)	Export Coefficient (kg/ha-yr)	P Load (kg/yr)
1	Smathers Ditch	Cropland	1	A	803							
1	Smathers Ditch	Noncropland	2	A	210							
1	Smathers Ditch	Urban land	3	A	5		5	0.6	3			
2	Conrad Ditch	Cropland	4	A	101							
2	Conrad Ditch	Noncropland	5	A	43							
2	Conrad Ditch	Urban land	6	A	37		37	0.6	22			
3	Headwaters	Cropland	7	A	663							
3	Headwaters	Noncropland	8	A	268							
4	Upper Turkey Creek	Cropland	9	B	552							
4	Upper Turkey Creek	Noncropland	10	B	200							
5	Story Lakes	Cropland	11	C	300							
5	Story Lakes	Noncropland	12	C	535							
5	Story Lakes	Urban land	13	C	7		7	0.6	4			
6	Helmer	Cropland	14	B	923							
6	Helmer	Noncropland	15	B	294							
6	Helmer	Urban land	16	B	17		17	0.6	10			
7	Limekiln Lake	Cropland	17	D	429							
7	Limekiln Lake	Noncropland	18	D	302							
8	Middle Turkey Creek	Cropland	19	F	296							
8	Middle Turkey Creek	Noncropland	20	F	112							
9	Mud Creek	Cropland	21	E	1,068							
9	Mud Creek	Noncropland	22	E	713							
9	Mud Creek	Urban land	23	E	6		6	0.6	4			
10	Henry Lake	Cropland	24	F	102							
10	Henry Lake	Noncropland	25	F	58							
11	Big Turkey Lake	Urban land	26	F	155		155	0.6	93			
11	Big Turkey Lake	Cropland	27	F	337							
11	Big Turkey Lake	Noncropland	28	F	644							
12	Lower Turkey Creek	Urban land	29	I	36		36	0.6	21			
12	Lower Turkey Creek	Cropland	30	I	163							
12	Lower Turkey Creek	Noncropland	31	I	46							
13	Mud Lake Creek	Urban land	32	I	2		2	0.6	1			
13	Mud Lake Creek	Cropland	33	I	198							
13	Mud Lake Creek	Noncropland	34	I	96							
14	Pretty Lake Creek	Cropland	35	H	115							
14	Pretty Lake Creek	Noncropland	36	H	59							
15	Little Turkey Lake	Urban land	37	I	6		6	0.6	4			
15	Little Turkey Lake	Cropland	38	I	146							
15	Little Turkey Lake	Noncropland	39	I	189					55	0.2	11
16	Pretty Lake	Urban land	40	H	50		50	0.6	30			
16	Pretty Lake	Cropland	41	H	346							
16	Pretty Lake	Noncropland	42	H	170							
17	Mud Lake	Cropland	43	G	703							
17	Mud Lake	Noncropland	44	G	264							
18	Southwest Watershed	Urban land	45	G	155		155	0.6	93			
18	Southwest Watershed	Cropland	46	G	1,002							
18	Southwest Watershed	Noncropland	47	G	537							
					13,467		477		286	55		11

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Little Turkey Lake NPS Model

Subbasin No.	Name	Source	Position	Point of Entry	Area (ha)	Septic System Sources: Permanent Residences # of Homes	# of Persons	Days/ Year	Capita-Years	Seasonal Residences # of Homes	# of Persons	Days/ Year	Capita-Years	Soil Retention Coefficient	Export Coefficient (kg/cap-yr)	Septic P Load (kg/yr)
1	Smathers Ditch	Cropland	1	A	803											
1	Smathers Ditch	Noncropland	2	A	210											
1	Smathers Ditch	Urban land	3	A	5											
2	Conrad Ditch	Cropland	4	A	101											
2	Conrad Ditch	Noncropland	5	A	43											
2	Conrad Ditch	Urban land	6	A	37											
3	Headwaters	Cropland	7	A	663											
3	Headwaters	Noncropland	8	A	268											
4	Upper Turkey Creek	Cropland	9	B	552											
4	Upper Turkey Creek	Noncropland	10	B	200											
5	Story Lakes	Cropland	11	C	300											
5	Story Lakes	Noncropland	12	C	535											
5	Story Lakes	Urban land	13	C	7											
6	Helmer	Cropland	14	B	923											
6	Helmer	Noncropland	15	B	294											
6	Helmer	Urban land	16	B	17											
7	Limekiln Lake	Cropland	17	D	429											
7	Limekiln Lake	Noncropland	18	D	302											
8	Middle Turkey Creek	Cropland	19	F	296											
8	Middle Turkey Creek	Noncropland	20	F	112											
9	Mud Creek	Cropland	21	E	1,068											
9	Mud Creek	Noncropland	22	E	713											
9	Mud Creek	Urban land	23	E	6											
10	Henry Lake	Cropland	24	F	102											
10	Henry Lake	Noncropland	25	F	58											
11	Big Turkey Lake	Urban land	26	F	155											
11	Big Turkey Lake	Cropland	27	F	337											
11	Big Turkey Lake	Noncropland	28	F	644											
12	Lower Turkey Creek	Urban land	29	I	36											
12	Lower Turkey Creek	Cropland	30	I	163											
12	Lower Turkey Creek	Noncropland	31	I	46											
13	Mud Lake Creek	Urban land	32	I	2											
13	Mud Lake Creek	Cropland	33	I	198											
13	Mud Lake Creek	Noncropland	34	I	96											
14	Pretty Lake Creek	Cropland	35	H	115											
14	Pretty Lake Creek	Noncropland	36	H	59											
15	Little Turkey Lake	Urban land	37	I	6	28	72.8	365	72.8	12	31.2	25	2	0.5	0.7	26
15	Little Turkey Lake	Cropland	38	I	146											
15	Little Turkey Lake	Noncropland	39	I	189											
16	Pretty Lake	Urban land	40	H	50											
16	Pretty Lake	Cropland	41	H	346											
16	Pretty Lake	Noncropland	42	H	170											
17	Mud Lake	Cropland	43	G	703											
17	Mud Lake	Noncropland	44	G	264											
18	Southwest Watershed	Urban land	45	G	155											
18	Southwest Watershed	Cropland	46	G	1,002											
18	Southwest Watershed	Noncropland	47	G	537											
					13,467	28	73	365	73	12	31	25	2			26

Subbasin No.	Name	Source	Position	Point of Entry	Area (ha)	Grasslands Area (ha)	Grasslands Export Coefficient (kg/ha-yr)	Grasslands P Load (kg/yr)	Wetlands Area (ha)	Wetlands Export Coefficient (kg/ha-yr)	Wetlands P Load (kg/yr)	Shrubland Area (ha)	Shrubland Export Coefficient (kg/ha-yr)	Shrubland P Load (kg/yr)	Forests Area (ha)	Forests Export Coefficient (kg/ha-yr)	Forests P Load (kg/yr)	Total Non-cropland P Load (kg/yr)
1	Smathers Ditch	Cropland	1	A	803													
1	Smathers Ditch	Noncropland	2	A	210	120	0.15	18	35.6	-0.2	-7	0	0.1	0	54	0.1	5	16
1	Smathers Ditch	Urban land	3	A	5													
2	Conrad Ditch	Cropland	4	A	101													
2	Conrad Ditch	Noncropland	5	A	43	26	0.15	4	17.0	-0.2	-3	0	0.1	0	0	0.1	0	0
2	Conrad Ditch	Urban land	6	A	37													
3	Headwaters	Cropland	7	A	663													
3	Headwaters	Noncropland	8	A	268	149	0.15	22	59.1	-0.2	-12	9	0.1	1	50	0.1	5	16
4	Upper Turkey Creek	Cropland	9	B	552													
4	Upper Turkey Creek	Noncropland	10	B	200	81	0.15	12	43.7	-0.2	-9	2	0.1	0	73	0.1	7	11
5	Story Lakes	Cropland	11	C	300													
5	Story Lakes	Noncropland	12	C	535	356	0.15	53	77.3	-0.2	-15	29	0.1	3	73	0.1	7	48
5	Story Lakes	Urban land	13	C	7													
6	Helmer	Cropland	14	B	923													
6	Helmer	Noncropland	15	B	294	117	0.15	18	140.4	-0.2	-28	0	0.1	0	37	0.1	4	-7
6	Helmer	Urban land	16	B	17													
7	Limekiln Lake	Cropland	17	D	429													
7	Limekiln Lake	Noncropland	18	D	302	136	0.15	20	113.3	-0.2	-23	0	0.1	0	52	0.1	5	3
8	Middle Turkey Creek	Cropland	19	F	296													
8	Middle Turkey Creek	Noncropland	20	F	112	36	0.15	5	75.7	-0.2	-15	0	0.1	0	0	0.1	0	-10
9	Mud Creek	Cropland	21	E	1,068													
9	Mud Creek	Noncropland	22	E	713	427	0.15	64	162.3	-0.2	-32	24	0.1	2	100	0.1	10	44
9	Mud Creek	Urban land	23	E	6													
10	Henry Lake	Cropland	24	F	102													
10	Henry Lake	Noncropland	25	F	58	12	0.15	2	29.1	-0.2	-6	11	0.1	1	6	0.1	1	-2
11	Big Turkey Lake	Urban land	26	F	155													
11	Big Turkey Lake	Cropland	27	F	337													
11	Big Turkey Lake	Noncropland	28	F	644	181	0.15	27	338.7	-0.2	-68	51	0.1	5	74	0.1	7	-28
12	Lower Turkey Creek	Urban land	29	I	36													
12	Lower Turkey Creek	Cropland	30	I	163													
12	Lower Turkey Creek	Noncropland	31	I	46	0	0.15	0	46.1	-0.2	-9	0	0.1	0	0	0.1	0	-9
13	Mud Lake Creek	Urban land	32	I	2													
13	Mud Lake Creek	Cropland	33	I	198													
13	Mud Lake Creek	Noncropland	34	I	96	4.5	0.15	1	48.6	-0.2	-10	0	0.1	0	42.9	0.1	4	-5
14	Pretty Lake Creek	Cropland	35	H	115													
14	Pretty Lake Creek	Noncropland	36	H	59	0	0.15	0	45.7	-0.2	-9	9.7	0.1	1	3.6	0.1	0	-8
15	Little Turkey Lake	Urban land	37	I	6													
15	Little Turkey Lake	Cropland	38	I	146													
15	Little Turkey Lake	Noncropland	39	I	189	62.7	0.15	9	61.9	-0.2	-12	10.1	0.1	1	0	0.1	0	-2
16	Pretty Lake	Urban land	40	H	50													
16	Pretty Lake	Cropland	41	H	346													
16	Pretty Lake	Noncropland	42	H	170	6.7	0.15	1	114.2	-0.2	-23				49.4	0.1	5	-17
17	Mud Lake	Cropland	43	G	703													
17	Mud Lake	Noncropland	44	G	266	23.5	0.15	4	125.5	-0.2	-25	28.3	0.1	3	87.0	0.1	9	-10
18	Southwest Watershed	Urban land	45	G	155													
18	Southwest Watershed	Cropland	46	G	1,002													
18	Southwest Watershed	Noncropland	47	G	537	17.0	0.15	3	265.4	-0.2	-53				255.0	0.1	25	-25
					13,467	1,757		264	1,800		-360	174		17	956		96	17

Subbasin No.	Name	Source	Point of Entry Position		Area (ha)	Highly Erodible Soils Area (ha)	Area (acres)	Universal Soil Loss Equation Coefficients Rainfall & Runoff R	Soil Erodibility K	Topo-graphic LS	Cover & Managm'nt C	Support Practice P	Soil Loss A (t/ac/yr)	Soil Loss A (mt/ha/yr)	Gross Erosion (mt/yr)	Weighted P UAL Coefficient (kg/ha-yr)	P Loading (kg/yr)
1	Smathers Ditch	Cropland	1	A	803	276	683	140	0.39	0.825	0.21	1	9	21	5,701	0.9	255
1	Smathers Ditch	Noncropland	2	A	210												
1	Smathers Ditch	Urban land	3	A	5												
2	Conrad Ditch	Cropland	4	A	101	56	139	140	0.34	1.013	0.21	1	10	23	1,313	0.8	45
2	Conrad Ditch	Noncropland	5	A	43												
2	Conrad Ditch	Urban land	6	A	37												
3	Headwaters	Cropland	7	A	663	225	556	140	0.35	1.882	0.25	1	23	51	11,488	0.9	199
3	Headwaters	Noncropland	8	A	268												
4	Upper Turkey Creek	Cropland	9	B	552	143	353	140	0.27	1.193	0.21	1	9	21	3,033	0.7	96
4	Upper Turkey Creek	Noncropland	10	B	200												
5	Story Lakes	Cropland	11	C	300	172	426	140	0.38	2.170	0.25	1	29	66	11,297	1.0	164
5	Story Lakes	Noncropland	12	C	535												
5	Story Lakes	Urban land	13	C	7												
6	Helmer	Cropland	14	B	923	390	964	140	0.39	2.084	0.23	1	27	59	23,211	0.9	363
6	Helmer	Noncropland	15	B	294												
6	Helmer	Urban land	16	B	17												
7	Limekiln Lake	Cropland	17	D	429	152	376	140	0.29	1.280	0.21	1	11	24	3,707	0.8	125
7	Limekiln Lake	Noncropland	18	D	302												
8	Middle Turkey Creek	Cropland	19	F	296	55	137	140	0.19	1.786	0.21	1	10	23	1,254	0.5	27
8	Middle Turkey Creek	Noncropland	20	F	112												
9	Mud Creek	Cropland	21	E	1,068	382	943	140	0.26	1.300	0.21	1	10	22	8,576	0.7	261
9	Mud Creek	Noncropland	22	E	713												
9	Mud Creek	Urban land	23	E	6												
10	Henry Lake	Cropland	24	F	102	38	93	140	0.20	2.119	0.21	1	12	28	1,044	0.5	20
10	Henry Lake	Noncropland	25	F	58												
11	Big Turkey Lake	Urban land	26	F	155												
11	Big Turkey Lake	Cropland	27	F	337	121	300	140	0.23	1.894	0.21	1	13	29	3,574	0.7	80
11	Big Turkey Lake	Noncropland	28	F	644												
12	Lower Turkey Creek	Urban land	29	I	36												
12	Lower Turkey Creek	Cropland	30	I	163	4	11	140	0.17	1.430	0.21	1	7	16	72	1.1	5
12	Lower Turkey Creek	Noncropland	31	I	46												
13	Mud Lake Creek	Urban land	32	I	2												
13	Mud Lake Creek	Cropland	33	I	198	49	120	140	0.24	1.490	0.21	1	11	24	1,155	0.7	33
13	Mud Lake Creek	Noncropland	34	I	96												
14	Pretty Lake Creek	Cropland	35	H	115	67	166	140	0.28	1.688	0.21	1	14	31	2,095	0.7	47
14	Pretty Lake Creek	Noncropland	36	H	59												
15	Little Turkey Lake	Urban land	37	I	6												
15	Little Turkey Lake	Cropland	38	I	146	59	147	140	0.26	1.520	0.21	1	12	26	1,575	0.6	38
15	Little Turkey Lake	Noncropland	39	I	189												
16	Pretty Lake	Urban land	40	H	50												
16	Pretty Lake	Cropland	41	H	346	173	427	140	0.28	1.570	0.22	1	13	30	5,188	0.7	129
16	Pretty Lake	Noncropland	42	H	170												
17	Mud Lake	Cropland	43	G	703	166	410	140	0.23	1.451	0.21	1	10	23	3,768	0.5	91
17	Mud Lake	Noncropland	44	G	264												
18	Southwest Watershed	Urban land	45	G	155												
18	Southwest Watershed	Cropland	46	G	1,002	501	1,238	140	0.28	1.570	0.22	1	13	30	15,022	0.7	374
18	Southwest Watershed	Noncropland	47	G	537												
					13,467	3,031	7,489								103,074	0.8	2,351

Subbasin No.	Name	Source	Position	Point of Entry	Area (ha)	Area (ha)	Area (acres)	Universal Soil Loss Equation Coefficients: Rainfall & Runoff R	Soil Erodibility K	Topographic LS	Cover & Managm't C	Support Practice P	Soil Loss A (t/ac/yr)	Soil Loss A (mt/ha/yr)	Gross Erosion (mt/yr)	Weighted P UAL Coefficient (kg/ha-yr)	P Loading (kg/yr)
				Other Soils													
1	Smathers Ditch	Cropland	1	A	803	527	1,302	140	0.3284	0.2657	0.21	1	3	6	2,966	0.8	435
1	Smathers Ditch	Noncropland	2	A	210												
1	Smathers Ditch	Urban land	3	A	5												
2	Conrad Ditch	Cropland	4	A	101	45	111	140	0.2930	0.1791	0.21	1	2	3	155	0.5	23
2	Conrad Ditch	Noncropland	5	A	43												
2	Conrad Ditch	Urban land	6	A	37												
3	Headwaters	Cropland	7	A	663	438	1,082	140	0.2348	0.2466	0.25	1	2	4	1,956	0.5	220
3	Headwaters	Noncropland	8	A	268												
4	Upper Turkey Creek	Cropland	9	B	552	409	1,011	140	0.2226	0.3305	0.21	1	2	5	1,981	0.5	193
4	Upper Turkey Creek	Noncropland	10	B	200												
5	Story Lakes	Cropland	11	C	300	128	316	140	0.2359	0.1670	0.25	1	1	3	400	0.5	67
5	Story Lakes	Noncropland	12	C	535												
5	Story Lakes	Urban land	13	C	7												
6	Helmer	Cropland	14	B	923	533	1,316	140	0.2153	0.3046	0.23	1	2	5	2,554	0.5	274
6	Helmer	Noncropland	15	B	294												
6	Helmer	Urban land	16	B	17												
7	Limekiln Lake	Cropland	17	D	429	277	684	140	0.2260	0.2806	0.21	1	2	4	1,132	0.4	124
7	Limekiln Lake	Noncropland	18	D	302												
8	Middle Turkey Creek	Cropland	19	F	296	241	595	140	0.1428	0.2712	0.21	1	1	3	603	0.3	73
8	Middle Turkey Creek	Noncropland	20	F	112												
9	Mud Creek	Cropland	21	E	1,068	687	1,697	140	0.1883	0.3136	0.21	1	2	4	2,616	0.4	300
9	Mud Creek	Noncropland	22	E	713												
9	Mud Creek	Urban land	23	E	6												
10	Henry Lake	Cropland	24	F	102	65	160	140	0.0680	0.2830	0.21	1	1	1	80	0.2	16
10	Henry Lake	Noncropland	25	F	58												
11	Big Turkey Lake	Urban land	26	F	155												
11	Big Turkey Lake	Cropland	27	F	337	215	532	140	0.2117	0.3536	0.21	1	2	5	1,050	0.5	100
11	Big Turkey Lake	Noncropland	28	F	644												
12	Lower Turkey Creek	Urban land	29	I	36												
12	Lower Turkey Creek	Cropland	30	I	163	159	393	140	0.1344	0.1789	0.21	1	1	2	256	0.3	54
12	Lower Turkey Creek	Noncropland	31	I	46												
13	Mud Lake Creek	Urban land	32	I	2												
13	Mud Lake Creek	Cropland	33	I	198	149	369	140	0.1623	0.3352	0.21	1	2	4	543	0.3	48
13	Mud Lake Creek	Noncropland	34	I	98												
14	Pretty Lake Creek	Cropland	35	H	115	47	117	140	0.2913	0.2400	0.21	1	2	5	221	0.4	19
14	Pretty Lake Creek	Noncropland	36	H	59												
15	Little Turkey Lake	Urban land	37	I	6												
15	Little Turkey Lake	Cropland	38	I	146	87	214	140	0.1670	0.2648	0.21	1	1	3	256	0.3	26
15	Little Turkey Lake	Noncropland	39	I	189												
16	Pretty Lake	Urban land	40	H	50												
16	Pretty Lake	Cropland	41	H	346	173	427	140	0.2067	0.2692	0.22	1	2	4	652	0.4	75
16	Pretty Lake	Noncropland	42	H	170												
17	Mud Lake	Cropland	43	G	703	537	1,327	140	0.1850	0.2930	0.21	1	2	4	1,947	0.3	173
17	Mud Lake	Noncropland	44	G	264												
18	Southwest Watershed	Urban land	45	G	155												
18	Southwest Watershed	Cropland	46	G	1,002	501	1,238	140	0.2067	0.2692	0.22	1	2	4	1,888	0.4	217
18	Southwest Watershed	Noncropland	47	G	537												
					13,467	5,217	12,891								15,494	0.5	2,437

Subbasin No.	Name	Source	Position	Point of Entry	Area (ha)	Total Cropland Gross Erosion (mt/yr)	Average Cropland Soil Loss (t/ac/yr)	Average Subbasin Soil Loss (t/ac/yr)	Subbasin Sediment Delivery Ratio	Subbasin Sediment Yield (t/ac/yr)	Subbasin Sediment Production (t/yr)	Point of Entry Sediment Delivery Ratio	Point of Entry Sediment Yield (t/ac/yr)	Point of Entry Sediment Production (t/yr)	Total P Loading (kg/yr)
1	Smathers Ditch	Cropland	1	A	803	8,666	5	4	21%	0.8	2,006	18%	0.9	4,677	689
1	Smathers Ditch	Noncropland	2	A	210			4	21%	0.8	2,006	18%	0.9	4,677	16
1	Smathers Ditch	Urban land	3	A	5			4	21%	0.8	2,006	18%	0.9	4,677	3
2	Conrad Ditch	Cropland	4	A	101	1,469	6	4	31%	1.1	502	18%	0.9	4,677	69
2	Conrad Ditch	Noncropland	5	A	43			4	31%	1.1	502	18%	0.9	4,677	0
2	Conrad Ditch	Urban land	6	A	37			4	31%	1.1	502	18%	0.9	4,677	22
3	Headwaters	Cropland	7	A	663	13,444	9	6	21%	1.4	3,111	18%	0.9	4,677	418
3	Headwaters	Noncropland	8	A	268			6	21%	1.4	3,111	18%	0.9	4,677	16
4	Upper Turkey Creek	Cropland	9	B	552	5,014	4	3	22%	0.7	1,216	14%	0.8	10,191	290
4	Upper Turkey Creek	Noncropland	10	B	200			3	22%	0.7	1,216	14%	0.8	10,191	11
5	Story Lakes	Cropland	11	C	300	11,698	17	6	21%	1.3	2,707	21%	1.3	2,707	231
5	Story Lakes	Noncropland	12	C	535			6	21%	1.3	2,707	21%	1.3	2,707	48
5	Story Lakes	Urban land	13	C	7			6	21%	1.3	2,707	21%	1.3	2,707	4
6	Helmer	Cropland	14	B	923	25,765	12	9	21%	1.9	5,821	14%	0.8	10,191	637
6	Helmer	Noncropland	15	B	294			9	21%	1.9	5,821	14%	0.8	10,191	-7
6	Helmer	Urban land	16	B	17			9	21%	1.9	5,821	14%	0.8	10,191	10
7	Limekiln Lake	Cropland	17	D	429	4,840	5	3	22%	0.6	1,173	13%	0.7	10,156	269
7	Limekiln Lake	Noncropland	18	D	302			3	22%	0.6	1,173	13%	0.7	10,156	3
8	Middle Turkey Creek	Cropland	19	F	296	1,857	3	2	26%	0.5	532	11%	0.5	10,873	100
8	Middle Turkey Creek	Noncropland	20	F	112			2	26%	0.5	532	11%	0.5	10,873	-10
9	Mud Creek	Cropland	21	E	1,068	11,193	5	3	19%	0.5	2,343	19%	0.5	2,343	561
9	Mud Creek	Noncropland	22	E	713			3	19%	0.5	2,343	19%	0.5	2,343	44
9	Mud Creek	Urban land	23	E	6			3	19%	0.5	2,343	19%	0.5	2,343	4
10	Henry Lake	Cropland	24	F	102	1,125	5	2	31%	0.5	196	11%	0.5	10,873	36
10	Henry Lake	Noncropland	25	F	58			2	31%	0.5	196	11%	0.5	10,873	-2
11	Big Turkey Lake	Urban land	26	F	155			2	21%	0.4	1,045	11%	0.5	10,873	93
11	Big Turkey Lake	Cropland	27	F	337	4,624	6	2	21%	0.4	1,045	11%	0.5	10,873	180
11	Big Turkey Lake	Noncropland	28	F	644			2	21%	0.4	1,045	11%	0.5	10,873	-17
12	Lower Turkey Creek	Urban land	29	I	36			1	29%	0.2	105	10.5%	0.5	14,386	21
12	Lower Turkey Creek	Cropland	30	I	163	328	1	1	29%	0.2	105	10.5%	0.5	14,386	58
12	Lower Turkey Creek	Noncropland	31	I	46			1	29%	0.2	105	10.5%	0.5	14,386	-9
13	Mud Lake Creek	Urban land	32	I	2			3	28%	0.7	524	10.5%	0.5	14,386	1
13	Mud Lake Creek	Cropland	33	I	198	1,699	4	3	28%	0.7	524	10.5%	0.5	14,386	81
13	Mud Lake Creek	Noncropland	34	I	96			3	28%	0.7	524	10.5%	0.5	14,386	-5
14	Pretty Lake Creek	Cropland	35	H	115	2,317	9	6	31%	1.8	791	22%	0.9	1,528	66
14	Pretty Lake Creek	Noncropland	36	H	59			6	31%	1.8	791	22%	0.9	1,528	-8
15	Little Turkey Lake	Urban land	37	I	6			3	27%	0.8	545	10.5%	0.5	14,386	30
15	Little Turkey Lake	Cropland	38	I	146	1,831	6	3	27%	0.8	545	10.5%	0.5	14,386	64
15	Little Turkey Lake	Noncropland	39	I	189			3	27%	0.8	545	10.5%	0.5	14,386	9
16	Pretty Lake	Urban land	40	H	50			5	24%	1.3	1,545	22%	0.9	1,528	30
16	Pretty Lake	Cropland	41	H	346	5,840	8	5	24%	1.3	1,545	22%	0.9	1,528	204
16	Pretty Lake	Noncropland	42	H	170			5	24%	1.3	1,545	22%	0.9	1,528	-17
17	Mud Lake	Cropland	43	G	703	5,715	4	3	21%	0.6	1,323	17%	0.7	4,371	264
17	Mud Lake	Noncropland	44	G	264			3	21%	0.6	1,323	17%	0.7	4,371	-10
18	Southwest Watershed	Urban land	45	G	155			5	20%	1.0	3,727	17%	0.7	4,371	93
18	Southwest Watershed	Cropland	46	G	1,002	16,909	8	5	20%	1.0	3,727	17%	0.7	4,371	591
18	Southwest Watershed	Noncropland	47	G	537			5	20%	1.0	3,727	17%	0.7	4,371	-25
					13,467	124,331								14,386	5,138

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	WEIGHTED LS	LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED UAL
1	STEUBEN	BoC	0%	100%	0	Y	140	0.170	0.00	200	9	1.660	0.000	0.21	1	8.1	0	LS	45	0
1	STEUBEN	BoD	0%	100%	0	Y	140	0.170	0.00	0	15	3.100	0.000	0.21	1	15.2	0	LS	45	0
1	STEUBEN	CaC	2%	100%	17	Y	140	0.240	0.00		9	1.436	0.029	0.21	1	9.9	173	SL	65	1
1	STEUBEN	CaD2	0%	100%	0	Y	140	0.240	0.00		15	2.559	0.000	0.21	1	17.7	0	SL	65	0
1	STEUBEN	GnB	27%	100%	239	Y	140	0.430	0.12	0	4	0.530	0.145	0.21	1	6.6	1571	SiL	105	29
1	STEUBEN	KsC	0%	100%	0	Y	140	0.200	0.00		9	1.659	0.000	0.21	1	9.5	0	SL	45	0
1	STEUBEN	MbC	0%	100%	0	Y	140	0.370	0.00		9	1.659	0.000	0.21	1	17.7	0	L	85	0
1	STEUBEN	MhB	41%	100%	358	Y	140	0.370	0.15		4	0.528	0.216	0.21	1	5.6	2015	L	85	35
1	STEUBEN	MhC	17%	100%	149	Y	140	0.370	0.06		9	1.426	0.242	0.21	1	15.2	2256	L	85	14
1	STEUBEN	MhD	0%	100%	0	Y	140	0.370	0.00		15	2.559	0.000	0.21	1	27.2	0	L	85	0
1	STEUBEN	MhE	0%	100%	0	Y	140	0.370	0.00		22	5.888	0.000	0.21	1	62.7	0	L	85	0
1	STEUBEN	MkC3	1%	100%	9	Y	140	0.370	0.00		9	1.436	0.014	0.21	1	15.3	134	CL	115	1
1	STEUBEN	MkD3	0%	100%	0	Y	140	0.370	0.00		15	3.620	0.000	0.21	1	38.5	0	CL	115	0
1	STEUBEN	MoC2	7%	100%	58	Y	140	0.430	0.03	150	9	1.430	0.094	0.21	1	17.7	1021	SiL	105	7
1	STEUBEN	MoD2	1%	100%	10	Y	140	0.430	0.01	150	15	3.100	0.037	0.21	1	38.4	402	SiL	105	1
1	STEUBEN	MoE2	0%	100%	0	Y	140	0.430	0.00	150	22	5.650	0.000	0.21	1	69.9	0	SiL	105	0
1	STEUBEN	MrC3	0%	100%	0	Y	140	0.430	0.00	150	9	1.430	0.000	0.21	1	17.7	0	SCL	100	0
1	STEUBEN	MrD3	1%	100%	9	Y	140	0.430	0.00	150	15	3.100	0.031	0.21	1	38.4	335	SCL	100	1
1	STEUBEN	OsC	0%	100%	0	Y	140	0.240	0.00	200	8	1.400	0.000	0.21	1	9.7	0	LS	45	0
1	STEUBEN	RaB	3%	100%	24	Y	140	0.320	0.01		4	0.528	0.015	0.21	1	4.9	119	L	85	2
1	STEUBEN	RxC	0%	100%	0	Y	140	0.240	0.00		9	1.436	0.000	0.21	1	9.9	0	SL	45	0
1	STEUBEN	RxD	0%	100%	0	Y	140	0.240	0.00		15	2.559	0.000	0.21	1	17.7	0	SL	45	0
1	STEUBEN	Ud	0%	100%	0	Y	140	0.320	0.00	100	7	0.766	0.000	0.21	1	7.1	0	S	25	0
1	STEUBEN	WsC	0%	100%	0	Y	140	0.280	0.00		9	1.436	0.000	0.21	1	11.6	0	L	85	0
1	STEUBEN	WsD	0%	100%	0	Y	140	0.280	0.00		15	2.559	0.000	0.21	1	20.6	0	L	85	0
1	STEUBEN	WsE	0%	100%	0	Y	140	0.280	0.00		22	4.995	0.000	0.21	1	40.2	0	L	85	0
1	STEUBEN	WvC3	0%	100%	0	Y	140	0.280	0.00		9	1.436	0.000	0.21	1	11.6	0	SCL	100	0
1	STEUBEN	WvD3	0%	100%	0	Y	140	0.280	0.00		15	3.620	0.000	0.21	1	29.2	0	SCL	100	0
Subbasin Weighted Averages							140		0.388				0.825							92
Subbasin Totals			100%		874											594	8026			
County Totals			100%	100%	874		140		0.388				0.825	0.21	1	594	8026			92

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	WEIGHTED K	K	L	S	WEIGHTED LS	LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
2	STEUBEN	BoC	0%	91%	0	Y	140	0.170	0.00	200	9	1.660	0.000	0.21	1	8.3	0	LS	45	0
2	STEUBEN	BoD	0%	91%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS	45	0
2	STEUBEN	CaC	16%	91%	35	Y	140	0.240	0.04		9	1.436	0.232	0.21	1	10.1	352	SL	65	10
2	STEUBEN	CaD2	0%	91%	0	Y	140	0.240	0.00		15	2.559	0.000	0.21	1	18.1	0	SL	65	0
2	STEUBEN	GnB	0%	91%	0	Y	140	0.430	0.00	200	4	0.530	0.000	0.21	1	6.7	0	SiL	105	0
2	STEUBEN	KsC	0%	91%	0	Y	140	0.200	0.00		9	1.659	0.000	0.21	1	9.8	0	SL	45	0
2	STEUBEN	MbC	0%	91%	0	Y	140	0.370	0.00		9	1.659	0.000	0.21	1	18.0	0	L	85	0
2	STEUBEN	MhB	45%	91%	97	Y	140	0.370	0.17		4	0.528	0.238	0.21	1	5.7	559	L	85	38
2	STEUBEN	MhC	32%	91%	70	Y	140	0.370	0.12		9	1.426	0.460	0.21	1	15.5	1079	L	85	27
2	STEUBEN	MhD	0%	91%	0	Y	140	0.370	0.00		15	2.559	0.000	0.21	1	27.8	0	L	85	0
2	STEUBEN	MhE	0%	91%	0	Y	140	0.370	0.00		22	5.888	0.000	0.21	1	64.0	0	L	85	0
2	STEUBEN	MkC3	0%	91%	0	Y	140	0.370	0.00		9	1.436	0.000	0.21	1	15.6	0	CL	115	0
2	STEUBEN	MkD3	0%	91%	0	Y	140	0.370	0.00		15	3.620	0.000	0.21	1	39.4	0	CL	115	0
2	STEUBEN	MoC2	0%	91%	0	Y	140	0.430	0.00	150	9	1.430	0.000	0.21	1	18.1	0	SiL	105	0
2	STEUBEN	MoD2	0%	91%	0	Y	140	0.430	0.00	150	15	3.100	0.000	0.21	1	39.2	0	SiL	105	0
2	STEUBEN	MoE2	0%	91%	0	Y	140	0.430	0.00	150	22	5.650	0.000	0.21	1	71.4	0	SiL	105	0
2	STEUBEN	MrC3	0%	91%	0	Y	140	0.430	0.00	150	9	1.430	0.000	0.21	1	18.1	0	SCL	100	0
2	STEUBEN	MrD3	0%	91%	0	Y	140	0.430	0.00	150	15	3.100	0.000	0.21	1	39.2	0	SCL	100	0
2	STEUBEN	OsC	0%	91%	0	Y	140	0.240	0.00	200	8	1.400	0.000	0.21	1	9.9	0	LS	45	0
2	STEUBEN	RaB	0%	91%	0	Y	140	0.320	0.00		4	0.528	0.000	0.21	1	5.0	0	L	85	0
2	STEUBEN	RxC	6%	91%	14	Y	140	0.240	0.02		9	1.436	0.093	0.21	1	10.1	141	SL	45	3
2	STEUBEN	RxD	0%	91%	0	Y	140	0.240	0.00		15	2.559	0.000	0.21	1	18.1	0	SL	45	0
2	STEUBEN	Ud	0%	91%	0	Y	140	0.320	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
2	STEUBEN	WsC	0%	91%	0	Y	140	0.280	0.00		9	1.436	0.000	0.21	1	11.8	0	L	85	0
2	STEUBEN	WsD	0%	91%	0	Y	140	0.280	0.00		15	2.559	0.000	0.21	1	21.1	0	L	85	0
2	STEUBEN	WsE	0%	91%	0	Y	140	0.280	0.00		22	4.995	0.000	0.21	1	41.1	0	L	85	0
2	STEUBEN	WvC3	0%	91%	0	Y	140	0.280	0.00		9	1.436	0.000	0.21	1	11.8	0	SCL	100	0
2	STEUBEN	WvD3	0%	91%	0	Y	140	0.280	0.00		15	3.620	0.000	0.21	1	29.8	0	SCL	100	0
County Weighted Averages							140		0.34				1.023	0.21						79
County Totals			100%		216											665	2132			
2	DEKALB	BoC	0%	9%	0	Y	140	0.240	0.00	200	9	1.660	0.000	0.25	1	14.1	0	SiL	105	0
2	DEKALB	GnB2	0%	9%	0	Y	140	0.430	0.00	200	4	0.530	0.000	0.25	1	8.1	0	L	85	0
2	DEKALB	MoC2	0%	9%	0	Y	140	0.430	0.00	150	9	1.430	0.000	0.25	1	21.8	0	SL	65	0
2	DEKALB	MoD2	0%	9%	0	Y	140	0.430	0.00	150	15	3.100	0.000	0.25	1	47.3	0	SL	65	0
2	DEKALB	MoE2	0%	9%	0	Y	140	0.430	0.00	150	22	5.650	0.000	0.25	1	86.1	0	SL	65	0
2	DEKALB	MrC3	0%	9%	0	Y	140	0.430	0.00	150	9	1.430	0.000	0.25	1	21.8	0	SCL	100	0
2	DEKALB	MrD3	0%	9%	0	Y	140	0.430	0.00	150	15	3.100	0.000	0.25	1	47.3	0	SCL	100	0
2	DEKALB	SrB2	57%	9%	12	Y	140	0.370	0.21	200	4	0.530	0.303	0.25	1	7.0	85	L	85	49
2	DEKALB	SrC2	29%	9%	6	Y	140	0.370	0.11	150	9	1.430	0.409	0.25	1	18.8	114	L	85	24
2	DEKALB	StC3	14%	9%	3	Y	140	0.370	0.05	150	9	1.430	0.204	0.25	1	18.8	57	CL	115	16
2	DEKALB	StD3	0%	9%	0	Y	140	0.370	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.37				0.916	0.25						89
County Totals			100%		21											324	256			
2	LAGRANGE	BoC	0%	0%	0	Y	140	0.170	0.00	200	9	1.660	0.000	0.21	1	8.4	0	SiL	105	0
2	LAGRANGE	BoD	0%	0%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
2	LAGRANGE	ChC	0%	0%	0	Y	140	0.150	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
2	LAGRANGE	HdC	0%	0%	0	Y	140	0.240	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
2	LAGRANGE	MeC	0%	0%	0	Y	140	0.170	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS	45	0
2	LAGRANGE	MoB2	0%	0%	0	Y	140	0.370	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
2	LAGRANGE	MoC2	0%	0%	0	Y	140	0.370	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
2	LAGRANGE	OsC	0%	0%	0	Y	140	0.240	0.00	200	9	1.660	0.000	0.21	1	11.9	0	LS	45	0
2	LAGRANGE	OsD	0%	0%	0	Y	140	0.240	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
2	LAGRANGE	OsE	0%	0%	0	Y	140	0.240	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
2	LAGRANGE	OuC	0%	0%	0	Y	140	0.240	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
2	LAGRANGE	PxC	0%	0%	0	Y	140	0.150	0.00	150	9	1.430	0.000	0.21	1	6.4	0	S	25	0
2	LAGRANGE	ShC	0%	0%	0	Y	140	0.200	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
2	LAGRANGE	WeC2	0%	0%	0	Y	140	0.280	0.00	200	9	1.660	0.000	0.21	1	13.9	0	FSL	40	0
2	LAGRANGE	WeD2	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
2	LAGRANGE	WhC3	0%	0%	0	Y	140	0.280	0.00	175	9	1.560	0.000	0.21	1	13.0	0	L	85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P VAL	WEIGHTED P VAL
2	LAGRANGE	WhD3	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.00				0.000	0.21						0
County Totals			0%		0											249	0			
Subbasin Weighted Averages							140		0.34				1.013	0.214	1					
Subbasin Totals					237											1239	2388			80

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
3	STEUBEN	BoC	31%	16%	36	Y	140	0.170	0.05	200	9	1.430	0.444	0.21	1	7.1	255	LS	45	14
3	STEUBEN	BoD	3%	16%	4	Y	140	0.170	0.01	150	15	3.100	0.107	0.21	1	15.5	61	LS	45	2
3	STEUBEN	CaC	24%	16%	28	Y	140	0.240	0.06		9	0.530	0.128	0.21	1	3.7	104	SL	65	16
3	STEUBEN	CaD2	0%	16%	0	Y	140	0.240	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
3	STEUBEN	GnB	0%	16%	0	Y	140	0.430	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL	105	0
3	STEUBEN	KsC	0%	16%	0	Y	140	0.200	0.00		9	2.550	0.000	0.21	1	15.0	0	SL	45	0
3	STEUBEN	MbC	0%	16%	0	Y	140	0.370	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
3	STEUBEN	MhB	0%	16%	0	Y	140	0.370	0.00		4	0.000	0.000	0.21	1	0.0	0	L	85	0
3	STEUBEN	MhC	0%	16%	0	Y	140	0.370	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
3	STEUBEN	MhD	0%	16%	0	Y	140	0.370	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
3	STEUBEN	MhE	0%	16%	0	Y	140	0.370	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
3	STEUBEN	MkC3	3%	16%	4	Y	140	0.370	0.01		9	1.560	0.054	0.21	1	17.0	67	CL	115	4
3	STEUBEN	MkD3	0%	16%	0	Y	140	0.370	0.00		15	1.560	0.000	0.21	1	17.0	0	CL	115	0
3	STEUBEN	MoC2	0%	16%	0	Y	140	0.430	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL	105	0
3	STEUBEN	MoD2	0%	16%	0	Y	140	0.430	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
3	STEUBEN	MoE2	0%	16%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
3	STEUBEN	MrC3	0%	16%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
3	STEUBEN	MrD3	0%	16%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
3	STEUBEN	OsC	0%	16%	0	Y	140	0.240	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
3	STEUBEN	RaB	0%	16%	0	Y	140	0.320	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
3	STEUBEN	RxC	38%	16%	44	Y	140	0.240	0.09		9	1.300	0.493	0.21	1	9.2	400	SL	45	17
3	STEUBEN	RxD	0%	16%	0	Y	140	0.240	0.00		15	1.660	0.000	0.21	1	11.7	0	SL	45	0
3	STEUBEN	Ud	0%	16%	0	Y	140	0.320	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
3	STEUBEN	WsC	0%	16%	0	Y	140	0.280	0.00		9	1.560	0.000	0.21	1	12.8	0	L	85	0
3	STEUBEN	WsD	0%	16%	0	Y	140	0.280	0.00		15	3.100	0.000	0.21	1	25.5	0	L	85	0
3	STEUBEN	WsE	0%	16%	0	Y	140	0.280	0.00		22	0.000	0.000	0.21	1	0.0	0	L	85	0
3	STEUBEN	WvC3	0%	16%	0	Y	140	0.280	0.00		9	0.000	0.000	0.21	1	0.0	0	SCL	100	0
3	STEUBEN	WvD3	0%	16%	0	Y	140	0.280	0.00		15	0.000	0.000	0.21	1	0.0	0	SCL	100	0
County Weighted Averages							140		0.22				1.226							52
County Totals			100%		115											475	888			
3	DEKALB	BoC	3%	84%	18	Y	140	0.240	0.01	200	9	1.430	0.041	0.25	1	12.2	216	SiL	105	3
3	DEKALB	GnB2	6%	84%	36	Y	140	0.430	0.02	200	4	1.430	0.082	0.25	1	21.8	775	L	85	5
3	DEKALB	MoC2	0%	84%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
3	DEKALB	MoD2	0%	84%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
3	DEKALB	MoE2	0%	84%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
3	DEKALB	MrC3	9%	84%	53	Y	140	0.430	0.04	150	9	3.100	0.266	0.25	1	47.3	2520	SCL	100	9
3	DEKALB	MrD3	0%	84%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
3	DEKALB	SrB2	56%	84%	347	Y	140	0.370	0.21	200	4	1.430	0.797	0.25	1	18.8	6501	L	85	47
3	DEKALB	SrC2	0%	84%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
3	DEKALB	StC3	23%	84%	142	Y	140	0.370	0.08	150	9	3.100	0.709	0.25	1	40.7	5782	CL	115	26
3	DEKALB	StD3	4%	84%	27	Y	140	0.370	0.02	100	15	2.550	0.109	0.25	1	33.5	892	CL	115	5
County Weighted Averages							140		0.37				2.003							95
County Totals			100%		622											446	16685			
3	LAGRANGE	BoC	0%	0%	0	Y	140	0.170	0.00	200	9	1.430	0.000	0.21	1	7.3	0	SiL	105	0
3	LAGRANGE	BoD	0%	0%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
3	LAGRANGE	ChC	0%	0%	0	Y	140	0.150	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
3	LAGRANGE	HdC	0%	0%	0	Y	140	0.240	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
3	LAGRANGE	MeC	0%	0%	0	Y	140	0.170	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS	45	0
3	LAGRANGE	MoB2	0%	0%	0	Y	140	0.370	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
3	LAGRANGE	MoC2	0%	0%	0	Y	140	0.370	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
3	LAGRANGE	OsC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
3	LAGRANGE	OsD	0%	0%	0	Y	140	0.240	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
3	LAGRANGE	OsE	0%	0%	0	Y	140	0.240	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
3	LAGRANGE	OuC	0%	0%	0	Y	140	0.240	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
3	LAGRANGE	PxC	0%	0%	0	Y	140	0.150	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
3	LAGRANGE	ShC	0%	0%	0	Y	140	0.200	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
3	LAGRANGE	WeC2	0%	0%	0	Y	140	0.280	0.00	200	9	1.430	0.000	0.21	1	11.9	0	FSL	40	0
3	LAGRANGE	WeD2	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
3	LAGRANGE	WhC3	0%	0%	0	Y	140	0.280	0.00	175	9	1.560	0.000	0.21	1	13.0	0	L	85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
3	LAGRANGE	WhD3	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											252	0			
Subbasin Weighted Averages							140		0.35				1.882	0.246	1					
Subbasin Totals					737											1172	17573			88

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
4	STEUBEN	BoC	28%	91%	122	Y	140	0.170	0.05	200	9	1.430	0.402	0.21	1	7.1	869	LS	45	13
4	STEUBEN	BoD	0%	91%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS	45	0
4	STEUBEN	CaC	6%	91%	27	Y	140	0.240	0.02		9	0.530	0.033	0.21	1	3.7	101	SL	65	4
4	STEUBEN	CaD2	0%	91%	0	Y	140	0.240	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
4	STEUBEN	GnB	0%	91%	0	Y	140	0.430	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL	105	0
4	STEUBEN	KsC	16%	91%	68	Y	140	0.200	0.03		9	2.550	0.398	0.21	1	15.0	1013	SL	45	7
4	STEUBEN	MbC	0%	91%	0	Y	140	0.370	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
4	STEUBEN	MhB	20%	91%	88	Y	140	0.370	0.08		4	0.000	0.000	0.21	1	0.0	0	L	85	17
4	STEUBEN	MhC	0%	91%	0	Y	140	0.370	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
4	STEUBEN	MhD	0%	91%	0	Y	140	0.370	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
4	STEUBEN	MhE	0%	91%	0	Y	140	0.370	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
4	STEUBEN	MkC3	0%	91%	0	Y	140	0.370	0.00		9	1.560	0.000	0.21	1	17.0	0	CL	115	0
4	STEUBEN	MkD3	0%	91%	0	Y	140	0.370	0.00		15	1.560	0.000	0.21	1	17.0	0	CL	115	0
4	STEUBEN	MoC2	0%	91%	0	Y	140	0.430	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL	105	0
4	STEUBEN	MoD2	0%	91%	0	Y	140	0.430	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
4	STEUBEN	MoE2	0%	91%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
4	STEUBEN	MrC3	0%	91%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
4	STEUBEN	MrD3	0%	91%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
4	STEUBEN	OsC	0%	91%	0	Y	140	0.240	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
4	STEUBEN	RaB	0%	91%	0	Y	140	0.320	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
4	STEUBEN	RxC	6%	91%	27	Y	140	0.240	0.02		9	1.300	0.085	0.21	1	9.2	248	SL	45	3
4	STEUBEN	RxD	2%	91%	7	Y	140	0.240	0.00		15	1.660	0.026	0.21	1	11.7	79	SL	45	1
4	STEUBEN	Ud	0%	91%	0	Y	140	0.320	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
4	STEUBEN	WsC	9%	91%	41	Y	140	0.280	0.03		9	1.560	0.146	0.21	1	12.8	520	L	85	8
4	STEUBEN	WsD	0%	91%	0	Y	140	0.280	0.00		15	3.100	0.000	0.21	1	25.5	0	L	85	0
4	STEUBEN	WsE	0%	91%	0	Y	140	0.280	0.00		22	0.000	0.000	0.21	1	0.0	0	L	85	0
4	STEUBEN	WvC3	9%	91%	41	Y	140	0.280	0.03		9	0.000	0.000	0.21	1	0.0	0	SCL	100	9
4	STEUBEN	WvD3	3%	91%	14	Y	140	0.280	0.01		15	0.000	0.000	0.21	1	0.0	0	SCL	100	3
County Weighted Averages							140		0.25				1.087							65
County Totals			100%		432											475	2830			
4	DEKALB	BoC	0%	9%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL	105	0
4	DEKALB	GnB2	48%	9%	20	Y	140	0.430	0.21	200	4	1.430	0.690	0.25	1	21.8	439	L	85	41
4	DEKALB	MoC2	0%	9%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
4	DEKALB	MoD2	0%	9%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
4	DEKALB	MoE2	0%	9%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
4	DEKALB	MrC3	52%	9%	22	Y	140	0.430	0.22	150	9	3.100	0.003	0.25	1	47.3	1020	SCL	100	52
4	DEKALB	MrD3	0%	9%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
4	DEKALB	SrB2	0%	9%	0	Y	140	0.370	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
4	DEKALB	SrC2	0%	9%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
4	DEKALB	StC3	0%	9%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
4	DEKALB	StD3	0%	9%	0	Y	140	0.370	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.43				2.294							93
County Totals			100%		42											446	1459			
4	LAGRANGE	BoC	0%	0%	0	Y	140	0.170	0.00	200	9	1.430	0.000	0.21	1	7.3	0	SiL	105	0
4	LAGRANGE	BoD	0%	0%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
4	LAGRANGE	ChC	0%	0%	0	Y	140	0.150	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
4	LAGRANGE	HdC	0%	0%	0	Y	140	0.240	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
4	LAGRANGE	MeC	0%	0%	0	Y	140	0.170	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS	45	0
4	LAGRANGE	MoB2	0%	0%	0	Y	140	0.370	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
4	LAGRANGE	MoC2	0%	0%	0	Y	140	0.370	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
4	LAGRANGE	OsC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
4	LAGRANGE	OsD	0%	0%	0	Y	140	0.240	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
4	LAGRANGE	OsE	0%	0%	0	Y	140	0.240	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
4	LAGRANGE	OuC	0%	0%	0	Y	140	0.240	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
4	LAGRANGE	PxC	0%	0%	0	Y	140	0.150	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
4	LAGRANGE	ShC	0%	0%	0	Y	140	0.200	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
4	LAGRANGE	WeC2	0%	0%	0	Y	140	0.280	0.00	200	9	1.430	0.000	0.21	1	11.9	0	FSL	40	0
4	LAGRANGE	WeD2	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
4	LAGRANGE	WhC3	0%	0%	0	Y	140	0.280	0.00	175	9	1.560	0.000	0.21	1	13.0	0	L	85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
4	LAGRANGE	WhD3	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											252	0			
Subbasin Weighted Averages							140		0.27				1.193	0.21	1					
Subbasin Totals					474											1172	4289			67

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	WEIGHTED R	K	L	S	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P	UAL	WEIGHTED P UAL
5	STEUBEN	BoC	0%	0%	0	Y	140	0.170	0.00	200	9 1.430	0.000	0.21	1	7.1	0	LS	45	0
5	STEUBEN	BoD	0%	0%	0	Y	140	0.170	0.00	150	15 3.100	0.000	0.21	1	15.5	0	LS	45	0
5	STEUBEN	CaC	0%	0%	0	Y	140	0.240	0.00		9 0.530	0.000	0.21	1	3.7	0	SL	65	0
5	STEUBEN	CaD2	0%	0%	0	Y	140	0.240	0.00		15 1.430	0.000	0.21	1	10.1	0	SL	65	0
5	STEUBEN	GnB	0%	0%	0	Y	140	0.430	0.00	200	4 1.430	0.000	0.21	1	18.1	0	SiL	105	0
5	STEUBEN	KsC	0%	0%	0	Y	140	0.200	0.00		9 2.550	0.000	0.21	1	15.0	0	SL	45	0
5	STEUBEN	MbC	0%	0%	0	Y	140	0.370	0.00		9 0.000	0.000	0.21	1	0.0	0	L	85	0
5	STEUBEN	Mh8	0%	0%	0	Y	140	0.370	0.00		4 0.000	0.000	0.21	1	0.0	0	L	85	0
5	STEUBEN	MhC	0%	0%	0	Y	140	0.370	0.00		9 1.660	0.000	0.21	1	18.1	0	L	85	0
5	STEUBEN	MhD	0%	0%	0	Y	140	0.370	0.00		15 3.100	0.000	0.21	1	33.7	0	L	85	0
5	STEUBEN	MhE	0%	0%	0	Y	140	0.370	0.00		22 1.560	0.000	0.21	1	17.0	0	L	85	0
5	STEUBEN	MkC3	0%	0%	0	Y	140	0.370	0.00		9 1.560	0.000	0.21	1	17.0	0	CL	115	0
5	STEUBEN	MkD3	0%	0%	0	Y	140	0.370	0.00		15 1.560	0.000	0.21	1	17.0	0	CL	115	0
5	STEUBEN	MoC2	0%	0%	0	Y	140	0.430	0.00	150	9 0.500	0.000	0.21	1	6.3	0	SiL	105	0
5	STEUBEN	MoD2	0%	0%	0	Y	140	0.430	0.00	150	15 1.520	0.000	0.21	1	19.2	0	SiL	105	0
5	STEUBEN	MoE2	0%	0%	0	Y	140	0.430	0.00	150	22 1.660	0.000	0.21	1	21.0	0	SiL	105	0
5	STEUBEN	MrC3	0%	0%	0	Y	140	0.430	0.00	150	9 3.100	0.000	0.21	1	39.2	0	SCL	100	0
5	STEUBEN	MrD3	0%	0%	0	Y	140	0.430	0.00	150	15 5.200	0.000	0.21	1	65.7	0	SCL	100	0
5	STEUBEN	OsC	0%	0%	0	Y	140	0.240	0.00	200	8 1.750	0.000	0.21	1	12.3	0	LS	45	0
5	STEUBEN	RaB	0%	0%	0	Y	140	0.320	0.00		4 1.430	0.000	0.21	1	13.5	0	L	85	0
5	STEUBEN	RxC	0%	0%	0	Y	140	0.240	0.00		9 1.300	0.000	0.21	1	9.2	0	SL	45	0
5	STEUBEN	RxD	0%	0%	0	Y	140	0.240	0.00		15 1.660	0.000	0.21	1	11.7	0	SL	45	0
5	STEUBEN	Ud	0%	0%	0	Y	140	0.320	0.00	100	6 7.000	0.000	0.21	1	65.9	0	S	25	0
5	STEUBEN	WsC	0%	0%	0	Y	140	0.280	0.00		9 1.560	0.000	0.21	1	12.8	0	L	85	0
5	STEUBEN	WsD	0%	0%	0	Y	140	0.280	0.00		15 3.100	0.000	0.21	1	25.5	0	L	85	0
5	STEUBEN	WsE	0%	0%	0	Y	140	0.280	0.00		22 0.000	0.000	0.21	1	0.0	0	L	85	0
5	STEUBEN	WvC3	0%	0%	0	Y	140	0.280	0.00		9 0.000	0.000	0.21	1	0.0	0	SCL	100	0
5	STEUBEN	WvD3	0%	0%	0	Y	140	0.280	0.00		15 0.000	0.000	0.21	1	0.0	0	SCL	100	0
County Weighted Averages							140		0.00			0.000							0
County Totals			0%		0										475	0			
5	DEKALB	BoC	4%	100%	45	Y	140	0.240	0.01	200	9 1.430	0.052	0.25	1	12.2	549	SiL	105	4
5	DEKALB	GnB2	17%	100%	214	Y	140	0.430	0.07	200	4 1.430	0.247	0.25	1	21.8	4669	L	85	15
5	DEKALB	MoC2	0%	100%	0	Y	140	0.430	0.00	150	9 3.100	0.000	0.25	1	47.3	0	SL	65	0
5	DEKALB	MoD2	0%	100%	0	Y	140	0.430	0.00	150	15 5.200	0.000	0.25	1	79.3	0	SL	65	0
5	DEKALB	MoE2	0%	100%	0	Y	140	0.430	0.00	150	22 1.660	0.000	0.25	1	25.3	0	SL	65	0
5	DEKALB	MrC3	4%	100%	45	Y	140	0.430	0.02	150	9 3.100	0.113	0.25	1	47.3	2131	SCL	100	4
5	DEKALB	MrD3	4%	100%	45	Y	140	0.430	0.02	150	15 5.200	0.189	0.25	1	79.3	3575	SCL	100	4
5	DEKALB	SrB2	37%	100%	462	Y	140	0.370	0.14	200	4 1.430	0.533	0.25	1	18.8	8670	L	85	32
5	DEKALB	SrC2	6%	100%	79	Y	140	0.370	0.02	150	9 3.100	0.197	0.25	1	40.7	3209	L	85	5
5	DEKALB	StC3	22%	100%	271	Y	140	0.370	0.08	150	9 3.100	0.676	0.25	1	40.7	11002	CL	115	25
5	DEKALB	StD3	6%	100%	79	Y	140	0.370	0.02	100	15 2.550	0.162	0.25	1	33.5	2640	CL	115	7
County Weighted Averages							140		0.38			2.170							95
County Totals			100%		1240										446	36443			
5	LAGRANGE	BoC	0%	0%	0	Y	140	0.170	0.00	200	9 1.430	0.000	0.21	1	7.3	0	SiL	105	0
5	LAGRANGE	BoD	0%	0%	0	Y	140	0.170	0.00	150	15 3.100	0.000	0.21	1	15.7	0	LS	45	0
5	LAGRANGE	ChC	0%	0%	0	Y	140	0.150	0.00	175	9 1.560	0.000	0.21	1	7.0	0	FS	20	0
5	LAGRANGE	HdC	0%	0%	0	Y	140	0.240	0.00	175	9 1.560	0.000	0.21	1	11.2	0	SL	65	0
5	LAGRANGE	MeC	0%	0%	0	Y	140	0.170	0.00	175	9 1.560	0.000	0.21	1	7.9	0	LS	45	0
5	LAGRANGE	MoB2	0%	0%	0	Y	140	0.370	0.00	175	4 0.500	0.000	0.21	1	5.5	0	L	85	0
5	LAGRANGE	MoC2	0%	0%	0	Y	140	0.370	0.00	125	10 1.520	0.000	0.21	1	16.8	0	L	85	0
5	LAGRANGE	OsC	0%	0%	0	Y	140	0.240	0.00	200	9 1.430	0.000	0.21	1	10.2	0	LS	45	0
5	LAGRANGE	OsD	0%	0%	0	Y	140	0.240	0.00	150	15 3.100	0.000	0.21	1	22.2	0	LS	45	0
5	LAGRANGE	OsE	0%	0%	0	Y	140	0.240	0.00	125	22 5.200	0.000	0.21	1	37.2	0	LS	45	0
5	LAGRANGE	OuC	0%	0%	0	Y	140	0.240	0.00	225	9 1.750	0.000	0.21	1	12.5	0	X		0
5	LAGRANGE	PxC	0%	0%	0	Y	140	0.150	0.00	150	9 3.100	0.000	0.21	1	13.9	0	S	25	0
5	LAGRANGE	ShC	0%	0%	0	Y	140	0.200	0.00	125	9 1.300	0.000	0.21	1	7.8	0	SL	65	0
5	LAGRANGE	WeC2	0%	0%	0	Y	140	0.280	0.00	200	9 1.430	0.000	0.21	1	11.9	0	FSL	40	0
5	LAGRANGE	WeD2	0%	0%	0	Y	140	0.280	0.00	150	15 3.100	0.000	0.21	1	25.9	0	FSL	40	0
5	LAGRANGE	WhC3	0%	0%	0	Y	140	0.280	0.00	175	9 1.560	0.000	0.21	1	13.0	0	L	85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
5	LAGRANGE	WhD3	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											252	0			
Subbasin Weighted Averages							140		0.38				2.170	0.253	1					
Subbasin Totals					1240											1172	36443			95

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	NES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P	UAL	WEIGHTED P	UAL
6	STEUBEN	BoC	2%	43%	11	Y	140	0.170	0.00	200	9	1.430	0.032	0.21	1.0	7.1	82	LS	45	1	2.41
6	STEUBEN	BoD	0%	43%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1.0	15.5	0	LS	45	0	0.00
6	STEUBEN	CaC	0%	43%	0	Y	140	0.240	0.00		9	0.530	0.000	0.21	1.0	3.7	0	SL	65	0	0.00
6	STEUBEN	CaD2	0%	43%	0	Y	140	0.240	0.00		15	1.430	0.000	0.21	1.0	10.1	0	SL	65	0	0.00
6	STEUBEN	GnB	43%	43%	218	Y	140	0.430	0.18	200	4	1.430	0.611	0.21	1.0	18.1	3940	SiL	105	45	45.77
6	STEUBEN	KsC	6%	43%	29	Y	140	0.200	0.01		9	2.550	0.143	0.21	1.0	15.0	430	SL	45	3	6.02
6	STEUBEN	MbC	0%	43%	0	Y	140	0.370	0.00		9	0.000	0.000	0.21	1.0	0.0	0	L	85	0	0.00
6	STEUBEN	MhB	6%	43%	29	Y	140	0.370	0.02		4	0.000	0.000	0.21	1.0	0.0	0	L	85	5	6.02
6	STEUBEN	MhC	4%	43%	23	Y	140	0.370	0.02		9	1.660	0.075	0.21	1.0	18.1	414	L	85	4	4.82
6	STEUBEN	MhD	0%	43%	0	Y	140	0.370	0.00		15	5.100	0.000	0.21	1.0	33.7	0	L	85	0	0.00
6	STEUBEN	MhE	0%	43%	0	Y	140	0.370	0.00		22	1.560	0.000	0.21	1.0	17.0	0	L	85	0	0.00
6	STEUBEN	MkC3	0%	43%	0	Y	140	0.370	0.00		9	1.560	0.000	0.21	1.0	17.0	0	CL	115	0	0.00
6	STEUBEN	MkD3	0%	43%	0	Y	140	0.370	0.00		15	1.560	0.000	0.21	1.0	17.0	0	CL	115	0	0.00
6	STEUBEN	MoC2	0%	43%	0	Y	140	0.430	0.00	150	9	0.500	0.000	0.21	1.0	6.3	0	SiL	105	0	0.00
6	STEUBEN	MoD2	3%	43%	17	Y	140	0.430	0.01	150	15	1.520	0.051	0.21	1.0	19.2	331	SiL	105	4	3.61
6	STEUBEN	MoE2	0%	43%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.21	1.0	21.0	0	SiL	105	0	0.00
6	STEUBEN	MrC3	7%	43%	34	Y	140	0.430	0.03	150	9	3.100	0.209	0.21	1.0	39.2	1349	SCL	100	7	7.23
6	STEUBEN	MrD3	2%	43%	11	Y	140	0.430	0.01	150	15	5.200	0.117	0.21	1.0	65.7	754	SCL	100	2	2.41
6	STEUBEN	OsC	0%	43%	0	Y	140	0.240	0.00	200	8	1.750	0.000	0.21	1.0	12.3	0	LS	45	0	0.00
6	STEUBEN	RaB	0%	43%	0	Y	140	0.320	0.00		4	1.430	0.000	0.21	1.0	13.5	0	L	85	0	0.00
6	STEUBEN	RxC	0%	43%	0	Y	140	0.240	0.00		9	1.300	0.000	0.21	1.0	9.2	0	SL	45	0	0.00
6	STEUBEN	RxD	0%	43%	0	Y	140	0.240	0.00		15	1.660	0.000	0.21	1.0	11.7	0	SL	45	0	0.00
6	STEUBEN	Ud	0%	43%	0	Y	140	0.320	0.00	100	6	7.000	0.000	0.21	1.0	65.9	0	S	25	0	0.00
6	STEUBEN	WsC	15%	43%	75	Y	140	0.280	0.04		9	1.560	0.228	0.21	1.0	12.8	957	L	85	12	15.66
6	STEUBEN	WsD	4%	43%	23	Y	140	0.280	0.01		15	3.100	0.139	0.21	1.0	25.5	585	L	85	4	4.82
6	STEUBEN	WsE	0%	43%	0	Y	140	0.280	0.00		22	0.000	0.000	0.21	1.0	0.0	0	L	85	0	0.00
6	STEUBEN	WvC3	4%	43%	23	Y	140	0.280	0.01		9	0.000	0.000	0.21	1.0	0.0	0	SCL	100	4	4.82
6	STEUBEN	WvD3	3%	43%	17	Y	140	0.280	0.01		15	0.000	0.000	0.21	1.0	0.0	0	SCL	100	3	3.61
County Weighted Averages							140		0.36				1.605							94	0.21
County Totals			100%		510											475	8842				
6	DEKALB	BoC	0%	58%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.25	1.0	12.2	0	SiL	105	0	0.00
6	DEKALB	GnB2	14%	58%	95	Y	140	0.430	0.06	200	4	1.430	0.197	0.25	1.0	21.5	2050	L	85	12	23.81
6	DEKALB	MoC2	0%	58%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1.0	46.7	0	SL	65	0	0.00
6	DEKALB	MoD2	0%	58%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1.0	78.3	0	SL	65	0	0.00
6	DEKALB	MoE2	0%	58%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.25	1.0	25.0	0	SL	65	0	0.00
6	DEKALB	MrC3	45%	58%	310	Y	140	0.430	0.19	150	9	3.100	1.390	0.25	1.0	46.7	14443	SCL	100	45	77.39
6	DEKALB	MrD3	7%	58%	48	Y	140	0.430	0.03	150	15	5.200	0.359	0.25	1.0	78.3	3727	SCL	100	7	11.91
6	DEKALB	SrB2	34%	58%	238	Y	140	0.370	0.13	200	4	1.430	0.493	0.25	1.0	18.5	4410	L	85	29	59.53
6	DEKALB	SrC2	0%	58%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1.0	40.1	0	L	85	0	0.00
6	DEKALB	StC3	0%	58%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1.0	40.1	0	CL	115	0	0.00
6	DEKALB	StD3	0%	58%	0	Y	140	0.370	0.00	100	15	2.550	0.000	0.25	1.0	33.0	0	CL	115	0	0.00
County Weighted Averages							140		0.41				2.439							93	0.25
County Totals			100%		691											440	24630				
6	LAGRANGE	BoC	0%	0%	0	Y	140	0.170	0.00	200	9	1.430	0.000	0.21	1.0	7.3	0	SiL	105	0	0.00
6	LAGRANGE	BoD	0%	0%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1.0	15.7	0	LS	45	0	0.00
6	LAGRANGE	ChC	0%	0%	0	Y	140	0.150	0.00	175	9	1.560	0.000	0.21	1.0	7.0	0	FS	20	0	0.00
6	LAGRANGE	HdC	0%	0%	0	Y	140	0.240	0.00	175	9	1.560	0.000	0.21	1.0	11.2	0	SL	65	0	0.00
6	LAGRANGE	MeC	0%	0%	0	Y	140	0.170	0.00	175	9	1.560	0.000	0.21	1.0	7.9	0	LS	45	0	0.00
6	LAGRANGE	MoB2	0%	0%	0	Y	140	0.370	0.00	175	4	0.500	0.000	0.21	1.0	5.5	0	L	85	0	0.00
6	LAGRANGE	MoC2	0%	0%	0	Y	140	0.370	0.00	125	10	1.520	0.000	0.21	1.0	16.8	0	L	85	0	0.00
6	LAGRANGE	OsC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.21	1.0	10.2	0	LS	45	0	0.00
6	LAGRANGE	OsD	0%	0%	0	Y	140	0.240	0.00	150	15	3.100	0.000	0.21	1.0	22.2	0	LS	45	0	0.00
6	LAGRANGE	OsE	0%	0%	0	Y	140	0.240	0.00	125	22	5.200	0.000	0.21	1.0	37.2	0	LS	45	0	0.00
6	LAGRANGE	OuC	0%	0%	0	Y	140	0.240	0.00	225	9	1.750	0.000	0.21	1.0	12.5	0	X		0	0.00
6	LAGRANGE	PxC	0%	0%	0	Y	140	0.150	0.00	150	9	3.100	0.000	0.21	1.0	13.9	0	S	25	0	0.00
6	LAGRANGE	ShC	0%	0%	0	Y	140	0.200	0.00	125	9	1.300	0.000	0.21	1.0	7.8	0	SL	65	0	0.00
6	LAGRANGE	WeC2	0%	0%	0	Y	140	0.280	0.00	200	9	1.430	0.000	0.21	1.0	11.9	0	FSL	40	0	0.00
6	LAGRANGE	WeD2	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1.0	25.9	0	FSL	40	0	0.00
6	LAGRANGE	WhC3	0%	0%	0	Y	140	0.280	0.00	175	9	1.560	0.000	0.21	1.0	13.0	0	L	85	0	0.00

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P VAL	WEIGHTED P VAL	
& LAGRANGE		WhD3	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1.0	25.9	0	L	85	0	0.00
County Weighted Averages							140		0.00				0.000							0	0.00
County Totals			0%		0											252	0				
Subbasin Weighted Averages							140		0.39				2.084	0.233	1.00						
Subbasin Totals					1201											1167	33472			93	

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
7	STEUBEN	BoC	2%	100%	12	Y	140	0.170	0.00	200	9	1.430	0.035	0.21	1	7.1	87	LS	45	1
7	STEUBEN	BoD	6%	100%	30	Y	140	0.170	0.01	150	15	3.100	0.191	0.21	1	15.5	471	LS	45	3
7	STEUBEN	CaC	0%	100%	0	Y	140	0.240	0.00		9	0.530	0.000	0.21	1	3.7	0	SL	65	0
7	STEUBEN	CaD2	0%	100%	0	Y	140	0.240	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
7	STEUBEN	GnB	4%	100%	18	Y	140	0.430	0.02	200	4	1.430	0.053	0.21	1	18.1	329	SiL	105	4
7	STEUBEN	KsC	0%	100%	0	Y	140	0.200	0.00		9	2.550	0.000	0.21	1	15.0	0	SL	45	0
7	STEUBEN	MbC	0%	100%	0	Y	140	0.370	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
7	STEUBEN	MhB	2%	100%	12	Y	140	0.370	0.01		4	0.000	0.000	0.21	1	0.0	0	L	85	2
7	STEUBEN	MhC	0%	100%	0	Y	140	0.370	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
7	STEUBEN	MhD	0%	100%	0	Y	140	0.370	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
7	STEUBEN	MhE	0%	100%	0	Y	140	0.370	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
7	STEUBEN	MkC3	10%	100%	49	Y	140	0.370	0.04		9	1.560	0.154	0.21	1	17.0	825	CL	115	11
7	STEUBEN	MkD3	1%	100%	6	Y	140	0.370	0.00		15	1.560	0.019	0.21	1	17.0	103	CL	115	1
7	STEUBEN	MoC2	5%	100%	24	Y	140	0.430	0.02	150	9	0.500	0.025	0.21	1	6.3	154	SiL	105	5
7	STEUBEN	MoD2	0%	100%	0	Y	140	0.430	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
7	STEUBEN	MoE2	0%	100%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
7	STEUBEN	MrC3	0%	100%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
7	STEUBEN	MrD3	0%	100%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
7	STEUBEN	OsC	0%	100%	0	Y	140	0.240	0.00	200	9	1.750	0.000	0.21	1	12.3	0	LS	45	0
7	STEUBEN	RaB	0%	100%	0	Y	140	0.320	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
7	STEUBEN	RxC	17%	100%	85	Y	140	0.240	0.04		9	1.300	0.225	0.21	1	9.2	780	SL	45	8
7	STEUBEN	RxD	0%	100%	0	Y	140	0.240	0.00		15	1.660	0.000	0.21	1	11.7	0	SL	45	0
7	STEUBEN	Ud	0%	100%	0	Y	140	0.320	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
7	STEUBEN	WsC	37%	100%	182	Y	140	0.280	0.10		9	1.560	0.578	0.21	1	12.8	2340	L	85	31
7	STEUBEN	WsD	0%	100%	0	Y	140	0.280	0.00		15	3.100	0.000	0.21	1	25.5	0	L	85	0
7	STEUBEN	WsE	0%	100%	0	Y	140	0.280	0.00		22	0.000	0.000	0.21	1	0.0	0	L	85	0
7	STEUBEN	WvC3	12%	100%	61	Y	140	0.280	0.03		9	0.000	0.000	0.21	1	0.0	0	SCL	100	12
7	STEUBEN	WvD3	2%	100%	12	Y	140	0.280	0.01		15	0.000	0.000	0.21	1	0.0	0	SCL	100	2
County Weighted Averages							140		0.29				1.280							82
County Totals			100%		492											475	5088			
7	DEKALB	BoC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL	105	0
7	DEKALB	GnB2	0%	0%	0	Y	140	0.430	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L	85	0
7	DEKALB	MoC2	0%	0%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
7	DEKALB	MoD2	0%	0%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
7	DEKALB	MoE2	0%	0%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
7	DEKALB	MrC3	0%	0%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL	100	0
7	DEKALB	MrD3	0%	0%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
7	DEKALB	Sr B2	0%	0%	0	Y	140	0.370	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
7	DEKALB	Sr C2	0%	0%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
7	DEKALB	StC3	0%	0%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
7	DEKALB	StD3	0%	0%	0	Y	140	0.370	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											446	0			
7	LAGRANGE	BoC	0%	0%	0	Y	140	0.170	0.00	200	9	1.430	0.000	0.21	1	7.3	0	SiL	105	0
7	LAGRANGE	BoD	0%	0%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
7	LAGRANGE	ChC	0%	0%	0	Y	140	0.150	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
7	LAGRANGE	HdC	0%	0%	0	Y	140	0.240	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
7	LAGRANGE	MeC	0%	0%	0	Y	140	0.170	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS	45	0
7	LAGRANGE	MoB2	0%	0%	0	Y	140	0.370	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
7	LAGRANGE	MoC2	0%	0%	0	Y	140	0.370	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
7	LAGRANGE	OsC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
7	LAGRANGE	OsD	0%	0%	0	Y	140	0.240	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
7	LAGRANGE	OsE	0%	0%	0	Y	140	0.240	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
7	LAGRANGE	OuC	0%	0%	0	Y	140	0.240	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
7	LAGRANGE	PxC	0%	0%	0	Y	140	0.150	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
7	LAGRANGE	ShC	0%	0%	0	Y	140	0.200	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
7	LAGRANGE	WeC2	0%	0%	0	Y	140	0.280	0.00	200	9	1.430	0.000	0.21	1	11.9	0	FSL	40	0
7	LAGRANGE	WeD2	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
7	LAGRANGE	WhC3	0%	0%	0	Y	140	0.280	0.00	175	9	1.560	0.000	0.21	1	13.0	0	L	85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	NES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
7	LAGRANGE	WhD3	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											252	0			
Subbasin Weighted Averages							140		0.29				1.280	0.210	1					
Subbasin Totals					492											1172	5088			82

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
8	STEUBEN	BoC	46%	94%	90	Y	140	0.170	0.08	200	9	1.430	0.658	0.21	1	7.1	645	LS	45	21
8	STEUBEN	BoD	0%	94%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS	45	0
8	STEUBEN	CaC	0%	94%	0	Y	140	0.240	0.00		9	0.530	0.000	0.21	1	3.7	0	SL	65	0
8	STEUBEN	CaD2	0%	94%	0	Y	140	0.240	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
8	STEUBEN	GnB	0%	94%	0	Y	140	0.430	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL	105	0
8	STEUBEN	KsC	36%	94%	71	Y	140	0.200	0.07		9	2.550	0.918	0.21	1	15.0	1058	SL	45	16
8	STEUBEN	MbC	0%	94%	0	Y	140	0.370	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
8	STEUBEN	MhB	0%	94%	0	Y	140	0.370	0.00		4	0.000	0.000	0.21	1	0.0	0	L	85	0
8	STEUBEN	MhC	0%	94%	0	Y	140	0.370	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
8	STEUBEN	MhD	0%	94%	0	Y	140	0.370	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
8	STEUBEN	MhE	0%	94%	0	Y	140	0.370	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
8	STEUBEN	MkC3	0%	94%	0	Y	140	0.370	0.00		9	1.560	0.000	0.21	1	17.0	0	CL	115	0
8	STEUBEN	MkD3	0%	94%	0	Y	140	0.370	0.00		15	1.560	0.000	0.21	1	17.0	0	CL	115	0
8	STEUBEN	MoC2	0%	94%	0	Y	140	0.430	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL	105	0
8	STEUBEN	MoD2	0%	94%	0	Y	140	0.430	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
8	STEUBEN	MoE2	0%	94%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
8	STEUBEN	MrC3	0%	94%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
8	STEUBEN	MrD3	0%	94%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
8	STEUBEN	OsC	0%	94%	0	Y	140	0.240	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
8	STEUBEN	RaB	0%	94%	0	Y	140	0.320	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
8	STEUBEN	RxC	18%	94%	35	Y	140	0.240	0.04		9	1.300	0.234	0.21	1	9.2	324	SL	45	8
8	STEUBEN	RxD	0%	94%	0	Y	140	0.240	0.00		15	1.660	0.000	0.21	1	11.7	0	SL	45	0
8	STEUBEN	Ud	0%	94%	0	Y	140	0.320	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
8	STEUBEN	WsC	0%	94%	0	Y	140	0.280	0.00		9	1.560	0.000	0.21	1	12.8	0	L	85	0
8	STEUBEN	WsD	0%	94%	0	Y	140	0.280	0.00		15	3.100	0.000	0.21	1	25.5	0	L	85	0
8	STEUBEN	WsE	0%	94%	0	Y	140	0.280	0.00		22	0.000	0.000	0.21	1	0.0	0	L	85	0
8	STEUBEN	WvC3	0%	94%	0	Y	140	0.280	0.00		9	0.000	0.000	0.21	1	0.0	0	SCL	100	0
8	STEUBEN	WvD3	0%	94%	0	Y	140	0.280	0.00		15	0.000	0.000	0.21	1	0.0	0	SCL	100	0
County Weighted Averages							140		0.19				1.810							45
County Totals			100%		196												475	2026		
8	DEKALB	BoC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL	105	0
8	DEKALB	GnB2	0%	0%	0	Y	140	0.430	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L	85	0
8	DEKALB	MoC2	0%	0%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
8	DEKALB	MoD2	0%	0%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
8	DEKALB	MoE2	0%	0%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
8	DEKALB	MrC3	0%	0%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL	100	0
8	DEKALB	MrD3	0%	0%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
8	DEKALB	SrB2	0%	0%	0	Y	140	0.370	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
8	DEKALB	SrC2	0%	0%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
8	DEKALB	StC3	0%	0%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
8	DEKALB	StD3	0%	0%	0	Y	140	0.370	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0												446	0		
8	LAGRANGE	BoC	100%	6%	13	Y	140	0.170	0.17	200	9	1.430	1.430	0.21	1	7.3	94	SiL	105	105
8	LAGRANGE	BoD	0%	6%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
8	LAGRANGE	ChC	0%	6%	0	Y	140	0.150	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
8	LAGRANGE	HdC	0%	6%	0	Y	140	0.240	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
8	LAGRANGE	MeC	0%	6%	0	Y	140	0.170	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS	45	0
8	LAGRANGE	MoB2	0%	6%	0	Y	140	0.370	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
8	LAGRANGE	MoC2	0%	6%	0	Y	140	0.370	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
8	LAGRANGE	OsC	0%	6%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
8	LAGRANGE	OsD	0%	6%	0	Y	140	0.240	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
8	LAGRANGE	OsE	0%	6%	0	Y	140	0.240	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
8	LAGRANGE	OuC	0%	6%	0	Y	140	0.240	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
8	LAGRANGE	PxC	0%	6%	0	Y	140	0.150	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
8	LAGRANGE	ShC	0%	6%	0	Y	140	0.200	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
8	LAGRANGE	WeC2	0%	6%	0	Y	140	0.280	0.00	200	9	1.430	0.000	0.21	1	11.9	0	FSL	40	0
8	LAGRANGE	WeD2	0%	6%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
8	LAGRANGE	WhC3	0%	6%	0	Y	140	0.280	0.00	175	9	1.560	0.000	0.21	1	13.0	0	L	85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
8	LAGRANGE	WhD3	0%	6%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.17				1.430							105
County Totals			100%		13											252	94			
Subbasin Weighted Averages							140		0.19				1.786	0.210	1					
Subbasin Totals					209											1172	2120			49

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
9	STEUBEN	BoC	12%	100%	187	Y	140	0.170	0.02	200	9	1.430	0.175	0.21	1	7.1	1335	LS	45	6
9	STEUBEN	BoD	0%	100%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS	45	0
9	STEUBEN	CaC	0%	100%	0	Y	140	0.240	0.00		9	0.530	0.000	0.21	1	3.7	0	SL	65	0
9	STEUBEN	CaD2	8%	100%	121	Y	140	0.240	0.02		15	1.430	0.113	0.21	1	10.1	1219	SL	65	5
9	STEUBEN	GnB	0%	100%	0	Y	140	0.430	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SfL	105	0
9	STEUBEN	KsC	9%	100%	132	Y	140	0.200	0.02		9	2.550	0.220	0.21	1	15.0	1977	SL	45	4
9	STEUBEN	MbC	0%	100%	0	Y	140	0.370	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
9	STEUBEN	MhB	5%	100%	77	Y	140	0.370	0.02		4	0.000	0.000	0.21	1	0.0	0	L	85	4
9	STEUBEN	MhC	2%	100%	33	Y	140	0.370	0.01		9	1.660	0.036	0.21	1	18.1	595	L	85	2
9	STEUBEN	MhD	0%	100%	0	Y	140	0.370	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
9	STEUBEN	MhE	0%	100%	0	Y	140	0.370	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
9	STEUBEN	MkC3	0%	100%	0	Y	140	0.370	0.00		9	1.560	0.000	0.21	1	17.0	0	CL	115	0
9	STEUBEN	MkD3	1%	100%	22	Y	140	0.370	0.01		15	1.560	0.022	0.21	1	17.0	373	CL	115	2
9	STEUBEN	MoC2	2%	100%	33	Y	140	0.430	0.01	150	9	0.500	0.011	0.21	1	6.3	208	SfL	105	2
9	STEUBEN	MoD2	0%	100%	0	Y	140	0.430	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SfL	105	0
9	STEUBEN	MoE2	0%	100%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SfL	105	0
9	STEUBEN	MrC3	0%	100%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
9	STEUBEN	MrD3	4%	100%	55	Y	140	0.430	0.02	150	15	5.200	0.187	0.21	1	65.7	3611	SCL	100	4
9	STEUBEN	OsC	0%	100%	0	Y	140	0.240	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
9	STEUBEN	RaB	0%	100%	0	Y	140	0.320	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
9	STEUBEN	RxC	24%	100%	363	Y	140	0.240	0.06		9	1.300	0.305	0.21	1	9.2	3325	SL	45	11
9	STEUBEN	RxD	3%	100%	44	Y	140	0.240	0.01		15	1.660	0.048	0.21	1	11.7	515	SL	45	1
9	STEUBEN	Ud	0%	100%	0	Y	140	0.320	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
9	STEUBEN	WsC	12%	100%	176	Y	140	0.280	0.03		9	1.560	0.180	0.21	1	12.8	2257	L	85	10
9	STEUBEN	WsD	0%	100%	0	Y	140	0.280	0.00		15	3.100	0.000	0.21	1	25.5	0	L	85	0
9	STEUBEN	WsE	2%	100%	33	Y	140	0.280	0.01		22	0.000	0.000	0.21	1	0.0	0	L	85	2
9	STEUBEN	WvC3	7%	100%	110	Y	140	0.280	0.02		9	0.000	0.000	0.21	1	0.0	0	SCL	100	7
9	STEUBEN	WvD3	9%	100%	143	Y	140	0.280	0.03		15	0.000	0.000	0.21	1	0.0	0	SCL	100	9
County Weighted Averages							140		0.26				1.300							68
County Totals			100%		1527											475	15415			
9	DEKALB	BoC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SfL	105	0
9	DEKALB	GnB2	0%	0%	0	Y	140	0.430	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L	85	0
9	DEKALB	MoC2	0%	0%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
9	DEKALB	MoD2	0%	0%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
9	DEKALB	MoE2	0%	0%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
9	DEKALB	MrC3	0%	0%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL	100	0
9	DEKALB	MrD3	0%	0%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
9	DEKALB	SrB2	0%	0%	0	Y	140	0.370	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
9	DEKALB	SrC2	0%	0%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
9	DEKALB	StC3	0%	0%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
9	DEKALB	StD3	0%	0%	0	Y	140	0.370	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											446	0			
9	LAGRANGE	BoC	0%	0%	0	Y	140	0.170	0.00	200	9	1.430	0.000	0.21	1	7.3	0	SfL	105	0
9	LAGRANGE	BoD	0%	0%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
9	LAGRANGE	ChC	0%	0%	0	Y	140	0.150	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
9	LAGRANGE	HdC	0%	0%	0	Y	140	0.240	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
9	LAGRANGE	MeC	0%	0%	0	Y	140	0.170	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS	45	0
9	LAGRANGE	MoB2	0%	0%	0	Y	140	0.370	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
9	LAGRANGE	MoC2	0%	0%	0	Y	140	0.370	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
9	LAGRANGE	OsC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
9	LAGRANGE	OsD	0%	0%	0	Y	140	0.240	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
9	LAGRANGE	OsE	0%	0%	0	Y	140	0.240	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
9	LAGRANGE	OuC	0%	0%	0	Y	140	0.240	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
9	LAGRANGE	PxC	0%	0%	0	Y	140	0.150	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
9	LAGRANGE	ShC	0%	0%	0	Y	140	0.200	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
9	LAGRANGE	WeC2	0%	0%	0	Y	140	0.280	0.00	200	9	1.430	0.000	0.21	1	11.9	0	FSL	40	0
9	LAGRANGE	WeD2	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
9	LAGRANGE	WhC3	0%	0%	0	Y	140	0.280	0.00	175	9	1.560	0.000	0.21	1	13.0	0	L	85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
9	LAGRANGE	WhD3	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											252	0			
Subbasin Weighted Averages							140		0.26				1.300	0.210	1					
Subbasin Totals					1527											1172	15415			68

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % SLOPE	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
10	STEUBEN	BoC	51%	100%	66	Y	140	0.170	0.09	200	9	1.430	0.729	0.21	1	7.1	474	LS	45	23
10	STEUBEN	BoD	6%	100%	8	Y	140	0.170	0.01	150	15	3.100	0.182	0.21	1	15.5	118	LS	45	3
10	STEUBEN	CaC	0%	100%	0	Y	140	0.240	0.00		9	0.530	0.000	0.21	1	3.7	0	SL	65	0
10	STEUBEN	CaD2	0%	100%	0	Y	140	0.240	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
10	STEUBEN	GnB	0%	100%	0	Y	140	0.430	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL	105	0
10	STEUBEN	KsC	24%	100%	31	Y	140	0.200	0.05		9	2.550	0.600	0.21	1	15.0	459	SL	45	11
10	STEUBEN	MbC	0%	100%	0	Y	140	0.370	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
10	STEUBEN	MhB	0%	100%	0	Y	140	0.370	0.00		4	0.000	0.000	0.21	1	0.0	0	L	85	0
10	STEUBEN	MhC	0%	100%	0	Y	140	0.370	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
10	STEUBEN	MhD	0%	100%	0	Y	140	0.370	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
10	STEUBEN	MhE	0%	100%	0	Y	140	0.370	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
10	STEUBEN	MkC3	0%	100%	0	Y	140	0.370	0.00		9	1.560	0.000	0.21	1	17.0	0	CL	115	0
10	STEUBEN	MkD3	0%	100%	0	Y	140	0.370	0.00		15	1.560	0.000	0.21	1	17.0	0	CL	115	0
10	STEUBEN	MoC2	0%	100%	0	Y	140	0.430	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL	105	0
10	STEUBEN	MoD2	0%	100%	0	Y	140	0.430	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
10	STEUBEN	MoE2	0%	100%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
10	STEUBEN	MrC3	0%	100%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
10	STEUBEN	MrD3	0%	100%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
10	STEUBEN	OsC	0%	100%	0	Y	140	0.240	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
10	STEUBEN	RaB	0%	100%	0	Y	140	0.320	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
10	STEUBEN	RxC	0%	100%	0	Y	140	0.240	0.00		9	1.300	0.000	0.21	1	9.2	0	SL	45	0
10	STEUBEN	RxD	0%	100%	0	Y	140	0.240	0.00		15	1.660	0.000	0.21	1	11.7	0	SL	45	0
10	STEUBEN	Ud	0%	100%	0	Y	140	0.320	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
10	STEUBEN	WaC	0%	100%	0	Y	140	0.280	0.00		9	1.560	0.000	0.21	1	12.8	0	L	85	0
10	STEUBEN	WaD	20%	100%	25	Y	140	0.280	0.05		15	3.100	0.608	0.21	1	25.5	650	L	85	17
10	STEUBEN	WaE	0%	100%	0	Y	140	0.280	0.00		22	0.000	0.000	0.21	1	0.0	0	L	85	0
10	STEUBEN	WvC3	0%	100%	0	Y	140	0.280	0.00		9	0.000	0.000	0.21	1	0.0	0	SCL	100	0
10	STEUBEN	WvD3	0%	100%	0	Y	140	0.280	0.00		15	0.000	0.000	0.21	1	0.0	0	SCL	100	0
County Weighted Averages							140		0.20				2.119							53
County Totals			100%		130											475	1701			
10	DEKALB	BoC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL	105	0
10	DEKALB	GnB2	0%	0%	0	Y	140	0.430	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L	85	0
10	DEKALB	MoC2	0%	0%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
10	DEKALB	MoD2	0%	0%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
10	DEKALB	MoE2	0%	0%	0	Y	140	0.430	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
10	DEKALB	MrC3	0%	0%	0	Y	140	0.430	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL	100	0
10	DEKALB	MrD3	0%	0%	0	Y	140	0.430	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
10	DEKALB	SrB2	0%	0%	0	Y	140	0.370	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
10	DEKALB	SrC2	0%	0%	0	Y	140	0.370	0.00	200	9	3.100	0.000	0.25	1	40.7	0	L	85	0
10	DEKALB	StC3	0%	0%	0	Y	140	0.370	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
10	DEKALB	StD3	0%	0%	0	Y	140	0.370	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											446	0			
10	LAGRANGE	BoC	0%	0%	0	Y	140	0.170	0.00	200	9	1.430	0.000	0.21	1	7.3	0	SiL	105	0
10	LAGRANGE	BoD	0%	0%	0	Y	140	0.170	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
10	LAGRANGE	ChC	0%	0%	0	Y	140	0.150	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
10	LAGRANGE	HdC	0%	0%	0	Y	140	0.240	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
10	LAGRANGE	MeC	0%	0%	0	Y	140	0.170	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS	45	0
10	LAGRANGE	MoB2	0%	0%	0	Y	140	0.370	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
10	LAGRANGE	MoC2	0%	0%	0	Y	140	0.370	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
10	LAGRANGE	OsC	0%	0%	0	Y	140	0.240	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
10	LAGRANGE	OsD	0%	0%	0	Y	140	0.240	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
10	LAGRANGE	OsE	0%	0%	0	Y	140	0.240	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
10	LAGRANGE	OuC	0%	0%	0	Y	140	0.240	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
10	LAGRANGE	PxC	0%	0%	0	Y	140	0.150	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
10	LAGRANGE	ShC	0%	0%	0	Y	140	0.200	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
10	LAGRANGE	WeC2	0%	0%	0	Y	140	0.280	0.00	200	9	1.430	0.000	0.21	1	11.9	0	FSL	40	0
10	LAGRANGE	WeD2	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
10	LAGRANGE	WhC3	0%	0%	0	Y	140	0.280	0.00	175	9	1.560	0.000	0.21	1	13.0	0	L	85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
10	LAGRANGE	WhD3	0%	0%	0	Y	140	0.280	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											252	0			
Subbasin Weighted Averages							140		0.20				2.119	0.210	1					
Subbasin Totals			100%		130											1172	1701			53

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % SOIL	% IN COUNTY	ACREAGE	HES	R	WEIGHTED K	K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
11	STEUBEN	BoC	3%	75%	16	Y	140	0.17	0.00	200	9	1.430	0.038	0.21	1	7.1	114	LS	45	1
11	STEUBEN	BoD	0%	75%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS	45	0
11	STEUBEN	CaC	0%	75%	0	Y	140	0.24	0.00		9	0.530	0.000	0.21	1	3.7	0	SL	65	0
11	STEUBEN	CaD2	0%	75%	0	Y	140	0.24	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
11	STEUBEN	GnB	0%	75%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL	105	0
11	STEUBEN	KsC	40%	75%	244	Y	140	0.20	0.08		9	2.550	1.029	0.21	1	15.0	3658	SL	45	18
11	STEUBEN	MbC	0%	75%	0	Y	140	0.37	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
11	STEUBEN	MhB	0%	75%	0	Y	140	0.37	0.00		4	0.000	0.000	0.21	1	0.0	0	L	85	0
11	STEUBEN	MhC	0%	75%	0	Y	140	0.37	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
11	STEUBEN	MhD	0%	75%	0	Y	140	0.37	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
11	STEUBEN	MhE	0%	75%	0	Y	140	0.37	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
11	STEUBEN	MkC3	0%	75%	0	Y	140	0.37	0.00		9	1.560	0.000	0.21	1	17.0	0	CL	115	0
11	STEUBEN	MkD3	0%	75%	0	Y	140	0.37	0.00		15	1.560	0.000	0.21	1	17.0	0	CL	115	0
11	STEUBEN	MoC2	0%	75%	0	Y	140	0.43	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL	105	0
11	STEUBEN	MoD2	0%	75%	0	Y	140	0.43	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
11	STEUBEN	MoE2	0%	75%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
11	STEUBEN	MrC3	0%	75%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
11	STEUBEN	MrD3	0%	75%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
11	STEUBEN	OsC	0%	75%	0	Y	140	0.24	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
11	STEUBEN	RaB	0%	75%	0	Y	140	0.32	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
11	STEUBEN	RxC	11%	75%	64	Y	140	0.24	0.03		9	1.300	0.137	0.21	1	9.2	584	SL	45	5
11	STEUBEN	RxD	11%	75%	64	Y	140	0.24	0.03		15	1.660	0.175	0.21	1	11.7	745	SL	45	5
11	STEUBEN	Ud	0%	75%	0	Y	140	0.32	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
11	STEUBEN	WsC	16%	75%	95	Y	140	0.28	0.04		9	1.560	0.246	0.21	1	12.8	1226	L	85	13
11	STEUBEN	WsD	13%	75%	80	Y	140	0.28	0.04		15	3.100	0.408	0.21	1	25.5	2030	L	85	11
11	STEUBEN	WsE	4%	75%	21	Y	140	0.28	0.01		22	0.000	0.000	0.21	1	0.0	0	L	85	3
11	STEUBEN	WvC3	0%	75%	0	Y	140	0.28	0.00		9	0.000	0.000	0.21	1	0.0	0	SCL	100	0
11	STEUBEN	WvD3	4%	75%	21	Y	140	0.28	0.01		15	0.000	0.000	0.21	1	0.0	0	SCL	100	4
County Weighted Averages							140		0.24				2.032							60
County Totals			100%		605											475	8357			
11	DEKALB	BoC	0%	0%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL	105	0
11	DEKALB	GnB2	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L	85	0
11	DEKALB	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
11	DEKALB	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
11	DEKALB	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
11	DEKALB	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL	100	0
11	DEKALB	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
11	DEKALB	Sr B2	0%	0%	0	Y	140	0.37	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
11	DEKALB	SrC2	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
11	DEKALB	StC3	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
11	DEKALB	StD3	0%	0%	0	Y	140	0.37	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											446	0			
11	LAGRANGE	BoC	45%	25%	90	Y	140	0.17	0.08	200	9	1.430	0.644	0.21	1	7.3	651	SiL	105	47
11	LAGRANGE	BoD	0%	25%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
11	LAGRANGE	ChC	0%	25%	0	Y	140	0.15	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
11	LAGRANGE	HdC	0%	25%	0	Y	140	0.24	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
11	LAGRANGE	MeC	0%	25%	0	Y	140	0.17	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS	45	0
11	LAGRANGE	MoB2	0%	25%	0	Y	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
11	LAGRANGE	MoC2	0%	25%	0	Y	140	0.37	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
11	LAGRANGE	OsC	0%	25%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
11	LAGRANGE	OsD	0%	25%	0	Y	140	0.24	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
11	LAGRANGE	OsE	0%	25%	0	Y	140	0.24	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
11	LAGRANGE	OuC	0%	25%	0	Y	140	0.24	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
11	LAGRANGE	PxC	0%	25%	0	Y	140	0.15	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
11	LAGRANGE	ShC	0%	25%	0	Y	140	0.20	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
11	LAGRANGE	WeC2	20%	25%	40	Y	140	0.28	0.06	200	9	1.430	0.286	0.21	1	11.9	476	FSL	40	8
11	LAGRANGE	WeD2	0%	25%	0	Y	140	0.28	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
11	LAGRANGE	WhC3	35%	25%	70	Y	140	0.28	0.10	175	9	1.560	0.546	0.21	1	13.0	910	L	85	30

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
11	LAGRANGE	WhD3	0%	25%	0	Y	140	0.28	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.23				1.476							85
County Totals			100%		199											252	2037			
Subbasin Weighted Averages							140		0.23				1.894	0.211	1					
Subbasin Totals					804											1172	10394			66

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P	WEIGHTED UAL	UAL
12	STEUBEN	BoC	0%	0%	0	Y	140	0.17	0.00	200	9	1.430	0.000	0.21	1	7.1	0	LS		45	0
12	STEUBEN	BoD	0%	0%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS		45	0
12	STEUBEN	CaC	0%	0%	0	Y	140	0.24	0.00		9	0.530	0.000	0.21	1	3.7	0	SL		65	0
12	STEUBEN	CaD2	0%	0%	0	Y	140	0.24	0.00		15	1.430	0.000	0.21	1	10.1	0	SL		65	0
12	STEUBEN	GnB	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL		105	0
12	STEUBEN	KsC	0%	0%	0	Y	140	0.20	0.00		9	2.550	0.000	0.21	1	15.0	0	SL		45	0
12	STEUBEN	MbC	0%	0%	0	Y	140	0.37	0.00		9	0.000	0.000	0.21	1	0.0	0	L		85	0
12	STEUBEN	MhB	0%	0%	0	Y	140	0.37	0.00		4	0.000	0.000	0.21	1	0.0	0	L		85	0
12	STEUBEN	MhC	0%	0%	0	Y	140	0.37	0.00		9	1.660	0.000	0.21	1	18.1	0	L		85	0
12	STEUBEN	MhD	0%	0%	0	Y	140	0.37	0.00		15	3.100	0.000	0.21	1	33.7	0	L		85	0
12	STEUBEN	MhE	0%	0%	0	Y	140	0.37	0.00		22	1.560	0.000	0.21	1	17.0	0	L		85	0
12	STEUBEN	MkC3	0%	0%	0	Y	140	0.37	0.00		9	1.560	0.000	0.21	1	17.0	0	CL		115	0
12	STEUBEN	MkD3	0%	0%	0	Y	140	0.37	0.00		15	1.560	0.000	0.21	1	17.0	0	CL		115	0
12	STEUBEN	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL		105	0
12	STEUBEN	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL		105	0
12	STEUBEN	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL		105	0
12	STEUBEN	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL		100	0
12	STEUBEN	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL		100	0
12	STEUBEN	OaC	0%	0%	0	Y	140	0.24	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS		45	0
12	STEUBEN	RaB	0%	0%	0	Y	140	0.32	0.00		4	1.430	0.000	0.21	1	13.5	0	L		85	0
12	STEUBEN	RxC	0%	0%	0	Y	140	0.24	0.00		9	1.300	0.000	0.21	1	9.2	0	SL		45	0
12	STEUBEN	RxD	0%	0%	0	Y	140	0.24	0.00		15	1.660	0.000	0.21	1	11.7	0	SL		45	0
12	STEUBEN	Ud	0%	0%	0	Y	140	0.32	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S		25	0
12	STEUBEN	WaC	0%	0%	0	Y	140	0.28	0.00		9	1.560	0.000	0.21	1	12.8	0	L		85	0
12	STEUBEN	WaD	0%	0%	0	Y	140	0.28	0.00		15	3.100	0.000	0.21	1	25.5	0	L		85	0
12	STEUBEN	WaE	0%	0%	0	Y	140	0.28	0.00		22	0.000	0.000	0.21	1	0.0	0	L		85	0
12	STEUBEN	WvC3	0%	0%	0	Y	140	0.28	0.00		9	0.000	0.000	0.21	1	0.0	0	SCL		100	0
12	STEUBEN	WvD3	0%	0%	0	Y	140	0.28	0.00		15	0.000	0.000	0.21	1	0.0	0	SCL		100	0
County Weighted Averages							140		0.00				0.000								0
County Totals			0%		0											475	0				
12	DEKALB	BoC	0%	0%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL		105	0
12	DEKALB	GnB2	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L		85	0
12	DEKALB	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL		65	0
12	DEKALB	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL		65	0
12	DEKALB	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL		65	0
12	DEKALB	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL		100	0
12	DEKALB	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL		100	0
12	DEKALB	SrB2	0%	0%	0	Y	140	0.37	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L		85	0
12	DEKALB	SrC2	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L		85	0
12	DEKALB	StC3	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL		115	0
12	DEKALB	StD3	0%	0%	0	Y	140	0.37	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL		115	0
County Weighted Averages							140		0.00				0.000								0
County Totals			0%		0											446	0				
12	LAGRANGE	BoC	100%	100%	13	Y	140	0.17	0.17	200	9	1.430	1.430	0.21	1	7.3	94	SiL		105	105
12	LAGRANGE	BoD	0%	100%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS		45	0
12	LAGRANGE	ChC	0%	100%	0	Y	140	0.15	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS		20	0
12	LAGRANGE	HdC	0%	100%	0	Y	140	0.24	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL		65	0
12	LAGRANGE	MeC	0%	100%	0	Y	140	0.17	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS		45	0
12	LAGRANGE	MoB2	0%	100%	0	Y	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L		85	0
12	LAGRANGE	MoC2	0%	100%	0	Y	140	0.37	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L		85	0
12	LAGRANGE	OsC	0%	100%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS		45	0
12	LAGRANGE	OsD	0%	100%	0	Y	140	0.24	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS		45	0
12	LAGRANGE	OsE	0%	100%	0	Y	140	0.24	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS		45	0
12	LAGRANGE	OuC	0%	100%	0	Y	140	0.24	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X			0
12	LAGRANGE	PxC	0%	100%	0	Y	140	0.15	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S		25	0
12	LAGRANGE	ShC	0%	100%	0	Y	140	0.20	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL		65	0
12	LAGRANGE	WeC2	0%	100%	0	Y	140	0.28	0.00	200	9	1.430	0.000	0.21	1	11.9	0	FSL		40	0
12	LAGRANGE	WeD2	0%	100%	0	Y	140	0.28	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL		40	0
12	LAGRANGE	WhC3	0%	100%	0	Y	140	0.28	0.00	175	9	1.560	0.000	0.21	1	13.0	0	L		85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
12	LAGRANGE	Wh03	0%	100%	0	Y	140	0.28	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.17				1.430							105
County Totals			100%		13											252	94			
Subbasin Weighted Averages							140		0.17				1.430	0.213	1					
Subbasin Totals					13											1172	94			105

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	WEIGHTED K	K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
13	STEUBEN	BoC	0%	0%	0	Y	140	0.17	0.00	200	9	1.430	0.000	0.21	1	7.1	0	LS	45	0
13	STEUBEN	BoD	0%	0%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS	45	0
13	STEUBEN	CaC	0%	0%	0	Y	140	0.24	0.00		9	0.530	0.000	0.21	1	3.7	0	SL	65	0
13	STEUBEN	CaD2	0%	0%	0	Y	140	0.24	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
13	STEUBEN	GnB	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL	105	0
13	STEUBEN	KsC	0%	0%	0	Y	140	0.20	0.00		9	2.550	0.000	0.21	1	15.0	0	SL	45	0
13	STEUBEN	MbC	0%	0%	0	Y	140	0.37	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
13	STEUBEN	MhB	0%	0%	0	Y	140	0.37	0.00		4	0.000	0.000	0.21	1	0.0	0	L	85	0
13	STEUBEN	MhC	0%	0%	0	Y	140	0.37	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
13	STEUBEN	MhD	0%	0%	0	Y	140	0.37	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
13	STEUBEN	MhE	0%	0%	0	Y	140	0.37	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
13	STEUBEN	MkC3	0%	0%	0	Y	140	0.37	0.00		9	1.560	0.000	0.21	1	17.0	0	CL	115	0
13	STEUBEN	MkD3	0%	0%	0	Y	140	0.37	0.00		15	1.560	0.000	0.21	1	17.0	0	CL	115	0
13	STEUBEN	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL	105	0
13	STEUBEN	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
13	STEUBEN	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
13	STEUBEN	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
13	STEUBEN	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
13	STEUBEN	OsC	0%	0%	0	Y	140	0.24	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
13	STEUBEN	RnB	0%	0%	0	Y	140	0.32	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
13	STEUBEN	RxC	0%	0%	0	Y	140	0.24	0.00		9	1.300	0.000	0.21	1	9.2	0	SL	45	0
13	STEUBEN	RxD	0%	0%	0	Y	140	0.24	0.00		15	1.660	0.000	0.21	1	11.7	0	SL	45	0
13	STEUBEN	Ud	0%	0%	0	Y	140	0.32	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
13	STEUBEN	WsC	0%	0%	0	Y	140	0.28	0.00		9	1.560	0.000	0.21	1	12.8	0	L	85	0
13	STEUBEN	WsD	0%	0%	0	Y	140	0.28	0.00		15	3.100	0.000	0.21	1	25.5	0	L	85	0
13	STEUBEN	WsE	0%	0%	0	Y	140	0.28	0.00		22	0.000	0.000	0.21	1	0.0	0	L	85	0
13	STEUBEN	WvC3	0%	0%	0	Y	140	0.28	0.00		9	0.000	0.000	0.21	1	0.0	0	SCL	100	0
13	STEUBEN	WvD3	0%	0%	0	Y	140	0.28	0.00		15	0.000	0.000	0.21	1	0.0	0	SCL	100	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											475	0			
13	DEKALB	BoC	0%	0%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL	105	0
13	DEKALB	GnB2	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L	85	0
13	DEKALB	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
13	DEKALB	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
13	DEKALB	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
13	DEKALB	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL	100	0
13	DEKALB	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
13	DEKALB	SrB2	0%	0%	0	Y	140	0.37	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
13	DEKALB	SrC2	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
13	DEKALB	StC3	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
13	DEKALB	StD3	0%	0%	0	Y	140	0.37	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											446	0			
13	LAGRANGE	BoC	21%	100%	48	Y	140	0.17	0.04	200	9	1.430	0.298	0.21	1	7.3	348	SiL	105	22
13	LAGRANGE	BoD	0%	100%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
13	LAGRANGE	ChC	0%	100%	0	Y	140	0.15	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
13	LAGRANGE	HdC	0%	100%	0	Y	140	0.24	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
13	LAGRANGE	MeC	17%	100%	38	Y	140	0.17	0.03	175	9	1.560	0.260	0.21	1	7.9	303	LS	45	8
13	LAGRANGE	MoB2	0%	100%	0	Y	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
13	LAGRANGE	MoC2	0%	100%	0	Y	140	0.37	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
13	LAGRANGE	OsC	0%	100%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
13	LAGRANGE	OsD	0%	100%	0	Y	140	0.24	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
13	LAGRANGE	OsE	0%	100%	0	Y	140	0.24	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
13	LAGRANGE	OuC	0%	100%	0	Y	140	0.24	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
13	LAGRANGE	PxC	0%	100%	0	Y	140	0.15	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
13	LAGRANGE	ShC	0%	100%	0	Y	140	0.20	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
13	LAGRANGE	WeC2	33%	100%	77	Y	140	0.28	0.09	200	9	1.430	0.477	0.21	1	11.9	916	FSL	40	13
13	LAGRANGE	WeD2	0%	100%	0	Y	140	0.28	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
13	LAGRANGE	WhC3	29%	100%	67	Y	140	0.28	0.08	175	9	1.560	0.455	0.21	1	13.0	874	L	85	25

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	WES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
13	LAGRANGE	WhD3	0%	100%	0	Y	140	0.28	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages							140		0.24				1.490							68
County Totals			100%		230											252	2441			
Subbasin Weighted Averages							140		0.24				1.490	0.213	1					
Subbasin Totals					230											1172	2441			68

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
14	STEUBEN	BoC	0%	0%	0	Y	140	0.17	0.00	200	9	1.430	0.000	0.21	1	7.1	0	LS	45	0
14	STEUBEN	BoD	0%	0%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS	45	0
14	STEUBEN	CaC	0%	0%	0	Y	140	0.24	0.00		9	0.530	0.000	0.21	1	3.7	0	SL	65	0
14	STEUBEN	CaD2	0%	0%	0	Y	140	0.24	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
14	STEUBEN	GnB	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL	105	0
14	STEUBEN	KsC	0%	0%	0	Y	140	0.20	0.00		9	2.550	0.000	0.21	1	15.0	0	SL	45	0
14	STEUBEN	MbC	0%	0%	0	Y	140	0.37	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
14	STEUBEN	MhB	0%	0%	0	Y	140	0.37	0.00		4	0.000	0.000	0.21	1	0.0	0	L	85	0
14	STEUBEN	MhC	0%	0%	0	Y	140	0.37	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
14	STEUBEN	MhD	0%	0%	0	Y	140	0.37	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
14	STEUBEN	MhE	0%	0%	0	Y	140	0.37	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
14	STEUBEN	MkC3	0%	0%	0	Y	140	0.37	0.00		9	1.560	0.000	0.21	1	17.0	0	CL	115	0
14	STEUBEN	MkD3	0%	0%	0	Y	140	0.37	0.00		15	1.560	0.000	0.21	1	17.0	0	CL	115	0
14	STEUBEN	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL	105	0
14	STEUBEN	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
14	STEUBEN	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
14	STEUBEN	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
14	STEUBEN	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
14	STEUBEN	OsC	0%	0%	0	Y	140	0.24	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
14	STEUBEN	RaB	0%	0%	0	Y	140	0.32	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
14	STEUBEN	RxC	0%	0%	0	Y	140	0.24	0.00		9	1.300	0.000	0.21	1	9.2	0	SL	45	0
14	STEUBEN	RxD	0%	0%	0	Y	140	0.24	0.00		15	1.660	0.000	0.21	1	11.7	0	SL	45	0
14	STEUBEN	Ud	0%	0%	0	Y	140	0.32	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
14	STEUBEN	WsC	0%	0%	0	Y	140	0.28	0.00		9	1.560	0.000	0.21	1	12.8	0	L	85	0
14	STEUBEN	WsD	0%	0%	0	Y	140	0.28	0.00		15	3.100	0.000	0.21	1	25.5	0	L	85	0
14	STEUBEN	WsE	0%	0%	0	Y	140	0.28	0.00		22	0.000	0.000	0.21	1	0.0	0	L	85	0
14	STEUBEN	WvC3	0%	0%	0	Y	140	0.28	0.00		9	0.000	0.000	0.21	1	0.0	0	SCL	100	0
14	STEUBEN	WvD3	0%	0%	0	Y	140	0.28	0.00		15	0.000	0.000	0.21	1	0.0	0	SCL	100	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											475	0			
14	DEKALB	BoC	0%	0%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL	105	0
14	DEKALB	GnB2	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L	85	0
14	DEKALB	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
14	DEKALB	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
14	DEKALB	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
14	DEKALB	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL	100	0
14	DEKALB	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
14	DEKALB	SrB2	0%	0%	0	Y	140	0.37	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
14	DEKALB	SrC2	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
14	DEKALB	StC3	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
14	DEKALB	StD3	0%	0%	0	Y	140	0.37	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											446	0			
14	LAGRANGE	BoC	0%	100%	0	Y	140	0.17	0.00	200	9	1.430	0.000	0.21	1	7.3	0	SiL	105	0
14	LAGRANGE	BoD	0%	100%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
14	LAGRANGE	ChC	0%	100%	0	Y	140	0.15	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
14	LAGRANGE	HdC	0%	100%	0	Y	140	0.24	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
14	LAGRANGE	MeC	3%	100%	5	Y	140	0.17	0.01	175	9	1.560	0.054	0.21	1	7.9	42	LS	45	2
14	LAGRANGE	MoB2	0%	100%	0	Y	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
14	LAGRANGE	MoC2	0%	100%	0	Y	140	0.37	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
14	LAGRANGE	OsC	0%	100%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
14	LAGRANGE	OsD	0%	100%	0	Y	140	0.24	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
14	LAGRANGE	OsE	0%	100%	0	Y	140	0.24	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
14	LAGRANGE	OuC	0%	100%	0	Y	140	0.24	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
14	LAGRANGE	PxC	0%	100%	0	Y	140	0.15	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
14	LAGRANGE	ShC	0%	100%	0	Y	140	0.20	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
14	LAGRANGE	WeC2	24%	100%	37	Y	140	0.28	0.07	200	9	1.430	0.345	0.21	1	11.9	444	FSL	40	10
14	LAGRANGE	WeD2	7%	100%	11	Y	140	0.28	0.02	150	15	3.100	0.214	0.21	1	25.9	273	FSL	40	3
14	LAGRANGE	WhC3	62%	100%	96	Y	140	0.28	0.17	175	9	1.560	0.968	0.21	1	13.0	1246	L	85	53

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
14	LAGRANGE	WhD3	3%	100%	5	Y	140	0.28	0.01	150	15	3.100	0.107	0.21	1	25.9	138	L	85	3
County Weighted Averages							140		0.28				1.688							70
County Totals			100%		154											252	2145			
Subbasin Weighted Averages							140		0.28				1.688	0.213	1					
Subbasin Totals					154											1172	2145			70

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
15	STEUBEN	BoC	0%	0%	0	Y	140	0.17	0.00	200	9	1.430	0.000	0.21	1	7.1	0	LS	45	0
15	STEUBEN	BoD	0%	0%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS	45	0
15	STEUBEN	CaC	0%	0%	0	Y	140	0.24	0.00		9	0.530	0.000	0.21	1	3.7	0	SL	65	0
15	STEUBEN	CaD2	0%	0%	0	Y	140	0.24	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
15	STEUBEN	GnB	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL	105	0
15	STEUBEN	KsC	0%	0%	0	Y	140	0.20	0.00		9	2.550	0.000	0.21	1	15.0	0	SL	45	0
15	STEUBEN	MbC	0%	0%	0	Y	140	0.37	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
15	STEUBEN	MhB	0%	0%	0	Y	140	0.37	0.00		4	0.000	0.000	0.21	1	0.0	0	L	85	0
15	STEUBEN	MhC	0%	0%	0	Y	140	0.37	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
15	STEUBEN	MhD	0%	0%	0	Y	140	0.37	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
15	STEUBEN	MhE	0%	0%	0	Y	140	0.37	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
15	STEUBEN	MkC3	0%	0%	0	Y	140	0.37	0.00		9	1.560	0.000	0.21	1	17.0	0	CL	115	0
15	STEUBEN	MkD3	0%	0%	0	Y	140	0.37	0.00		15	1.560	0.000	0.21	1	17.0	0	CL	115	0
15	STEUBEN	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL	105	0
15	STEUBEN	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
15	STEUBEN	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
15	STEUBEN	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
15	STEUBEN	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
15	STEUBEN	OsC	0%	0%	0	Y	140	0.24	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
15	STEUBEN	RaB	0%	0%	0	Y	140	0.32	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
15	STEUBEN	RxC	0%	0%	0	Y	140	0.24	0.00		9	1.300	0.000	0.21	1	9.2	0	SL	45	0
15	STEUBEN	RxD	0%	0%	0	Y	140	0.24	0.00		15	1.660	0.000	0.21	1	11.7	0	SL	45	0
15	STEUBEN	Ud	0%	0%	0	Y	140	0.32	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
15	STEUBEN	WsC	0%	0%	0	Y	140	0.28	0.00		9	1.560	0.000	0.21	1	12.8	0	L	85	0
15	STEUBEN	WsD	0%	0%	0	Y	140	0.28	0.00		15	3.100	0.000	0.21	1	25.5	0	L	85	0
15	STEUBEN	WsE	0%	0%	0	Y	140	0.28	0.00		22	0.000	0.000	0.21	1	0.0	0	L	85	0
15	STEUBEN	WvC3	0%	0%	0	Y	140	0.28	0.00		9	0.000	0.000	0.21	1	0.0	0	SCL	100	0
15	STEUBEN	WvD3	0%	0%	0	Y	140	0.28	0.00		15	0.000	0.000	0.21	1	0.0	0	SCL	100	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											475	0			
15	DEKALB	BoC	0%	0%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL	105	0
15	DEKALB	GnB2	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L	85	0
15	DEKALB	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
15	DEKALB	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
15	DEKALB	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
15	DEKALB	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL	100	0
15	DEKALB	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
15	DEKALB	SrB2	0%	0%	0	Y	140	0.37	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
15	DEKALB	SrC2	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
15	DEKALB	StC3	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
15	DEKALB	StD3	0%	0%	0	Y	140	0.37	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											466	0			
15	LAGRANGE	BoC	17%	100%	47	Y	140	0.17	0.03	200	9	1.430	0.238	0.21	1	7.3	343	SiL	105	18
15	LAGRANGE	BoD	0%	100%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
15	LAGRANGE	ChC	0%	100%	0	Y	140	0.15	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
15	LAGRANGE	HdC	3%	100%	9	Y	140	0.24	0.01	175	9	1.560	0.052	0.21	1	11.2	106	SL	65	2
15	LAGRANGE	MeC	0%	100%	0	Y	140	0.17	0.00	175	9	1.560	0.000	0.21	1	7.9	0	LS	45	0
15	LAGRANGE	MoB2	0%	100%	0	Y	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
15	LAGRANGE	MoC2	0%	100%	0	Y	140	0.37	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
15	LAGRANGE	OsC	0%	100%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.21	1	10.2	0	LS	45	0
15	LAGRANGE	OsD	0%	100%	0	Y	140	0.24	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
15	LAGRANGE	OsE	0%	100%	0	Y	140	0.24	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
15	LAGRANGE	OuC	0%	100%	0	Y	140	0.24	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
15	LAGRANGE	PxC	0%	100%	0	Y	140	0.15	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
15	LAGRANGE	ShC	0%	100%	0	Y	140	0.20	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
15	LAGRANGE	WeC2	53%	100%	151	Y	140	0.28	0.15	200	9	1.430	0.763	0.21	1	11.9	1810	FSL	40	21
15	LAGRANGE	WeD2	0%	100%	0	Y	140	0.28	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
15	LAGRANGE	WhC3	23%	100%	66	Y	140	0.28	0.07	175	9	1.560	0.364	0.21	1	13.0	864	L	85	20

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
15	LAGRANGE	WhD3	3%	100%	9	Y	140	0.28	0.01	150	15	3.100	0.103	0.21	1	25.9	245	L	85	3
County Weighted Averages							140		0.26				1.520							64
County Totals			100%		284											252	3368			
Subbasin Weighted Averages							140		0.26				1.520	0.213	1					
Subbasin Totals					284											1172	3368			64

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
17	STEUBEN	BoC	0%	0%	0	Y	140	0.17	0.00	200	9	1.430	0.000	0.21	1	7.1	0	LS	45	0
17	STEUBEN	BoD	0%	0%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.5	0	LS	45	0
17	STEUBEN	CaC	0%	0%	0	Y	140	0.24	0.00		9	0.530	0.000	0.21	1	3.7	0	SL	65	0
17	STEUBEN	CaD2	0%	0%	0	Y	140	0.24	0.00		15	1.430	0.000	0.21	1	10.1	0	SL	65	0
17	STEUBEN	GnB	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.21	1	18.1	0	SiL	105	0
17	STEUBEN	KaC	0%	0%	0	Y	140	0.20	0.00		9	2.550	0.000	0.21	1	15.0	0	SL	45	0
17	STEUBEN	MbC	0%	0%	0	Y	140	0.37	0.00		9	0.000	0.000	0.21	1	0.0	0	L	85	0
17	STEUBEN	MhB	0%	0%	0	Y	140	0.37	0.00		4	0.000	0.000	0.21	1	0.0	0	L	85	0
17	STEUBEN	MhC	0%	0%	0	Y	140	0.37	0.00		9	1.660	0.000	0.21	1	18.1	0	L	85	0
17	STEUBEN	MhD	0%	0%	0	Y	140	0.37	0.00		15	3.100	0.000	0.21	1	33.7	0	L	85	0
17	STEUBEN	MhE	0%	0%	0	Y	140	0.37	0.00		22	1.560	0.000	0.21	1	17.0	0	L	85	0
17	STEUBEN	MkC3	0%	0%	0	Y	140	0.37	0.00		9	1.560	0.000	0.21	1	17.0	0	CL	115	0
17	STEUBEN	MkD3	0%	0%	0	Y	140	0.37	0.00		15	1.560	0.000	0.21	1	17.0	0	CL	115	0
17	STEUBEN	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	0.500	0.000	0.21	1	6.3	0	SiL	105	0
17	STEUBEN	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	1.520	0.000	0.21	1	19.2	0	SiL	105	0
17	STEUBEN	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.21	1	21.0	0	SiL	105	0
17	STEUBEN	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.21	1	39.2	0	SCL	100	0
17	STEUBEN	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.21	1	65.7	0	SCL	100	0
17	STEUBEN	OsC	0%	0%	0	Y	140	0.24	0.00	200	8	1.750	0.000	0.21	1	12.3	0	LS	45	0
17	STEUBEN	RaB	0%	0%	0	Y	140	0.32	0.00		4	1.430	0.000	0.21	1	13.5	0	L	85	0
17	STEUBEN	RxC	0%	0%	0	Y	140	0.24	0.00		9	1.300	0.000	0.21	1	9.2	0	SL	45	0
17	STEUBEN	RxD	0%	0%	0	Y	140	0.24	0.00		15	1.660	0.000	0.21	1	11.7	0	SL	45	0
17	STEUBEN	Ud	0%	0%	0	Y	140	0.32	0.00	100	6	7.000	0.000	0.21	1	65.9	0	S	25	0
17	STEUBEN	WaC	0%	0%	0	Y	140	0.28	0.00		9	1.560	0.000	0.21	1	12.8	0	L	85	0
17	STEUBEN	WaD	0%	0%	0	Y	140	0.28	0.00		15	3.100	0.000	0.21	1	25.5	0	L	85	0
17	STEUBEN	WaE	0%	0%	0	Y	140	0.28	0.00		22	0.000	0.000	0.21	1	0.0	0	L	85	0
17	STEUBEN	WvC3	0%	0%	0	Y	140	0.28	0.00		9	0.000	0.000	0.21	1	0.0	0	SCL	100	0
17	STEUBEN	WvD3	0%	0%	0	Y	140	0.28	0.00		15	0.000	0.000	0.21	1	0.0	0	SCL	100	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											475	0			
17	DEKALB	BoC	0%	0%	0	Y	140	0.24	0.00	200	9	1.430	0.000	0.25	1	12.2	0	SiL	105	0
17	DEKALB	GnB2	0%	0%	0	Y	140	0.43	0.00	200	4	1.430	0.000	0.25	1	21.8	0	L	85	0
17	DEKALB	MoC2	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SL	65	0
17	DEKALB	MoD2	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SL	65	0
17	DEKALB	MoE2	0%	0%	0	Y	140	0.43	0.00	150	22	1.660	0.000	0.25	1	25.3	0	SL	65	0
17	DEKALB	MrC3	0%	0%	0	Y	140	0.43	0.00	150	9	3.100	0.000	0.25	1	47.3	0	SCL	100	0
17	DEKALB	MrD3	0%	0%	0	Y	140	0.43	0.00	150	15	5.200	0.000	0.25	1	79.3	0	SCL	100	0
17	DEKALB	SrB2	0%	0%	0	Y	140	0.37	0.00	200	4	1.430	0.000	0.25	1	18.8	0	L	85	0
17	DEKALB	SrC2	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	L	85	0
17	DEKALB	StC3	0%	0%	0	Y	140	0.37	0.00	150	9	3.100	0.000	0.25	1	40.7	0	CL	115	0
17	DEKALB	StD3	0%	0%	0	Y	140	0.37	0.00	100	15	2.550	0.000	0.25	1	33.5	0	CL	115	0
County Weighted Averages							140		0.00				0.000							0
County Totals			0%		0											446	0			
17	LAGRANGE	BoC	20%	100%	100	Y	140	0.17	0.03	200	9	1.430	0.286	0.21	1	7.3	727	SiL	105	21
17	LAGRANGE	BoD	0%	100%	0	Y	140	0.17	0.00	150	15	3.100	0.000	0.21	1	15.7	0	LS	45	0
17	LAGRANGE	ChC	0%	100%	0	Y	140	0.15	0.00	175	9	1.560	0.000	0.21	1	7.0	0	FS	20	0
17	LAGRANGE	HdC	0%	100%	0	Y	140	0.24	0.00	175	9	1.560	0.000	0.21	1	11.2	0	SL	65	0
17	LAGRANGE	MeC	16%	100%	80	Y	140	0.17	0.03	175	9	1.560	0.250	0.21	1	7.9	634	LS	45	7
17	LAGRANGE	MoB2	0%	100%	0	Y	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.5	0	L	85	0
17	LAGRANGE	MoC2	0%	100%	0	Y	140	0.37	0.00	125	10	1.520	0.000	0.21	1	16.8	0	L	85	0
17	LAGRANGE	OsC	16%	100%	80	Y	140	0.24	0.04	200	9	1.430	0.229	0.21	1	10.2	821	LS	45	7
17	LAGRANGE	OsD	0%	100%	0	Y	140	0.24	0.00	150	15	3.100	0.000	0.21	1	22.2	0	LS	45	0
17	LAGRANGE	OsE	0%	100%	0	Y	140	0.24	0.00	125	22	5.200	0.000	0.21	1	37.2	0	LS	45	0
17	LAGRANGE	OuC	0%	100%	0	Y	140	0.24	0.00	225	9	1.750	0.000	0.21	1	12.5	0	X		0
17	LAGRANGE	PxC	0%	100%	0	Y	140	0.15	0.00	150	9	3.100	0.000	0.21	1	13.9	0	S	25	0
17	LAGRANGE	ShC	0%	100%	0	Y	140	0.20	0.00	125	9	1.300	0.000	0.21	1	7.8	0	SL	65	0
17	LAGRANGE	WeC2	48%	100%	240	Y	140	0.28	0.13	200	9	1.430	0.686	0.21	1	11.9	2873	FSL	40	19
17	LAGRANGE	WeD2	0%	100%	0	Y	140	0.28	0.00	150	15	3.100	0.000	0.21	1	25.9	0	FSL	40	0
17	LAGRANGE	WhC3	0%	100%	0	Y	140	0.28	0.00	175	9	1.560	0.000	0.21	1	13.0	0	L	85	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
17	LAGRANGE	WhD3	0% 100%	0	Y	140	0.28	0.00	150	15	3.100	0.000	0.21	1	25.9	0	L	85	0
County Weighted Averages						140		0.23				1.451							55
County Totals			100%	501											252	5055			
Subbasin Weighted Averages						140		0.23				1.451	0.213	1					
Subbasin Totals				501											1172	5055			55

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
1	Steuben	Ad	0%	100%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.0	0	M	15	0
1	Steuben	BnA	24%	100%	390	N	140	0.43	0.10		2	0.247	0.059	0.21	1	3.1	1193	SiL	105	25
1	Steuben	BoB	0%	100%	0	N	140	0.17	0.00	250	4	0.430	0.000	0.21	1	2.1	0	LS	45	0
1	Steuben	BtA	0%	100%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
1	Steuben	Bz	10%	100%	156	N	140	0.28	0.03		1	0.170	0.016	0.21	1	1.4	214	L	85	8
1	Steuben	CcA	0%	100%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
1	Steuben	ChB	0%	100%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS	20	0
1	Steuben	ChC	0%	100%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
1	Steuben	Co	0%	100%	0	N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL	45	0
1	Steuben	CrA	43%	100%	698	N	140	0.32	0.14	250	2	0.220	0.094	0.21	1	2.0	1415	L	85	36
1	Steuben	Dr	0%	100%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL	105	0
1	Steuben	Ed	0%	100%	0	N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M	15	0
1	Steuben	Gs	0%	100%	0	N	140	0.17	0.00			0.146	0.000	0.21	1	0.7	0	LS	45	0
1	Steuben	HaA	0%	100%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
1	Steuben	Hn	0%	100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0			0
1	Steuben	Ht	0%	100%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
1	Steuben	Hw	0%	100%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
1	Steuben	KoA	0%	100%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
1	Steuben	KoB	3%	100%	41	N	140	0.28	0.01		4	0.577	0.014	0.21	1	4.6	191	SL	45	1
1	Steuben	MbA	0%	100%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
1	Steuben	MbB	0%	100%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
1	Steuben	Mc	0%	100%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
1	Steuben	MfB	0%	100%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS	45	0
1	Steuben	MfC	0%	100%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS	45	0
1	Steuben	Mm	0%	100%	0	N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L	45	0
1	Steuben	Mn	0%	100%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
1	Steuben	Mx	0%	100%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
1	Steuben	Mz	0%	100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
1	Steuben	OhA	0%	100%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
1	Steuben	OhB	0%	100%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
1	Steuben	OhC	0%	100%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS	45	0
1	Steuben	Pa	0%	100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
1	Steuben	Pe	4%	100%	62	N	140	0.24	0.01	200	1	0.160	0.006	0.21	1	1.1	68	SiCL	110	4
1	Steuben	Pg	0%	100%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
1	Steuben	PnA	0%	100%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
1	Steuben	PnB	0%	100%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
1	Steuben	Rb	2%	100%	37	N	140	0.28	0.01	225	1	0.160	0.004	0.21	1	1.3	48	L	45	1
1	Steuben	RxA	0%	100%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
1	Steuben	RxB	13%	100%	214	N	140	0.24	0.03		4	0.528	0.069	0.21	1	3.6	779	SL	45	6
1	Steuben	Ry	0%	100%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS	45	0
1	Steuben	Sh	0%	100%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
1	Steuben	Wa	0%	100%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
1	Steuben	Wh	0%	100%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL	105	0
1	Steuben	WsB	0%	100%	0	N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L	45	0
1	Steuben	Wx	3%	100%	45	N	140	0.37	0.01			0.170	0.005	0.21	1	1.8	82	L	45	1
County Weighted Averages							140		0.33				0.266	0	1					82
County Totals			100%	100%	1643											93	3989			
1	DEKALB	BnA		0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
1	DEKALB	BaB2		0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL	105	0
1	DEKALB	Bn		0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
1	DEKALB	BoB		0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
1	DEKALB	CrA		0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L	45	0
1	DEKALB	Em		0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
1	DEKALB	HaA		0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
1	DEKALB	HdB		0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
1	DEKALB	Hw		0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
1	DEKALB	Ld		0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
1	DEKALB	Mc		0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
1	DEKALB	MfB		0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
1	DEKALB	DdB	0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
1	DEKALB	DhB	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
1	DEKALB	Pe	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC	105	0
1	DEKALB	RaB	0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
1	DEKALB	Re	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
1	DEKALB	Se	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
1	DEKALB	Ud	0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
1	DEKALB	We	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL	105	0
1	DEKALB	Wt	0%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages						140		0.00				0.000	0.25	1					0
County Totals		0		0											49	0			
1	LAGRANGE	Ad	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
1	LAGRANGE	Am	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
1	LAGRANGE	BaA	0%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
1	LAGRANGE	BoA	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
1	LAGRANGE	BoB	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
1	LAGRANGE	Bp	0%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
1	LAGRANGE	BtA	0%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
1	LAGRANGE	BxA	0%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
1	LAGRANGE	ChB	0%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
1	LAGRANGE	CrA	0%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
1	LAGRANGE	Ed	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
1	LAGRANGE	Gf	0%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
1	LAGRANGE	Gr	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
1	LAGRANGE	HaA	0%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
1	LAGRANGE	HdA	0%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
1	LAGRANGE	HdB	0%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
1	LAGRANGE	Ho	0%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
1	LAGRANGE	Mt	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
1	LAGRANGE	Nw	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
1	LAGRANGE	Nx	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
1	LAGRANGE	MbB	0%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
1	LAGRANGE	Mc	0%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
1	LAGRANGE	MeB	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
1	LAGRANGE	MeA	0%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
1	LAGRANGE	OsA	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
1	LAGRANGE	OsB	0%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
1	LAGRANGE	OuB	0%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
1	LAGRANGE	Pm	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
1	LAGRANGE	PrA	0%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
1	LAGRANGE	Pt	0%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
1	LAGRANGE	Pv	0%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
1	LAGRANGE	PxB	0%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
1	LAGRANGE	PzA	0%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
1	LAGRANGE	RaB	0%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
1	LAGRANGE	Rb	0%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
1	LAGRANGE	Se	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
1	LAGRANGE	ShA	0%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
1	LAGRANGE	ShB	0%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
1	LAGRANGE	Ud	0%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
1	LAGRANGE	We	0%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
1	LAGRANGE	WeA	0%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
1	LAGRANGE	WeB	0%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
1	LAGRANGE	Wi	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages						140		0.00				0.000	0.21	1					0
County Totals		0		0											116	0			
Subbasin Weighted Averages						140		0.33				0.266							82
Subbasin Totals			100%	1643		140							0.21	1	258	3989			

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
2	Steuben	Ad	0%	91%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.0	0	M	15	0
2	Steuben	BnA	0%	91%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
2	Steuben	BoB	0%	91%	0	N	140	0.17	0.00	250	4	0.430	0.000	0.21	1	2.1	0	LS	45	0
2	Steuben	BtA	0%	91%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
2	Steuben	Bz	15%	91%	29	N	140	0.28	0.04		1	0.170	0.026	0.21	1	1.4	39	L	85	13
2	Steuben	CcA	0%	91%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
2	Steuben	ChB	0%	91%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS	20	0
2	Steuben	ChC	0%	91%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
2	Steuben	Co	25%	91%	48	N	140	0.28	0.07		1	0.126	0.032	0.21	1	1.0	48	SL	45	11
2	Steuben	CrA	15%	91%	29	N	140	0.32	0.05	250	2	0.220	0.033	0.21	1	2.0	58	L	85	13
2	Steuben	Dr	0%	91%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL	105	0
2	Steuben	Ed	15%	91%	29	N	140	0.43	0.06	200	1	0.120	0.018	0.21	1	1.5	42	M	15	2
2	Steuben	Gs	0%	91%	0	N	140	0.17	0.00		1	0.146	0.000	0.21	1	0.7	0	LS	45	0
2	Steuben	HaA	0%	91%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
2	Steuben	Hn	0%	91%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0			0
2	Steuben	Ht	5%	91%	10	N	140	0.01	0.00	225	1	0.160	0.008	0.21	1	0.0	0	M	15	1
2	Steuben	Hw	0%	91%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
2	Steuben	KoA	0%	91%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
2	Steuben	KoB	0%	91%	0	N	140	0.28	0.00		4	0.577	0.000	0.21	1	4.6	0	SL	45	0
2	Steuben	MbA	0%	91%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
2	Steuben	MbB	0%	91%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
2	Steuben	Mc	0%	91%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
2	Steuben	MfB	0%	91%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS	45	0
2	Steuben	MfC	0%	91%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS	45	0
2	Steuben	Mm	0%	91%	0	N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L	45	0
2	Steuben	Mn	0%	91%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
2	Steuben	Mx	0%	91%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
2	Steuben	Mz	0%	91%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
2	Steuben	OhA	0%	91%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
2	Steuben	OhB	0%	91%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
2	Steuben	OhC	0%	91%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS	45	0
2	Steuben	Pa	0%	91%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
2	Steuben	Pe	0%	91%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
2	Steuben	Pg	0%	91%	0	N	140	0.10	0.00			0.276	0.000	0.21	1	2.2	0	G		0
2	Steuben	PnA	0%	91%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
2	Steuben	PnB	0%	91%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
2	Steuben	Rb	20%	91%	38	N	140	0.28	0.06	225	1	0.160	0.032	0.21	1	1.3	49	L	45	9
2	Steuben	RxA	0%	91%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
2	Steuben	RxB	5%	91%	10	N	140	0.24	0.01		4	0.528	0.026	0.21	1	3.6	35	SL	45	2
2	Steuben	Ry	0%	91%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS	45	0
2	Steuben	Sh	0%	91%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
2	Steuben	Wa	0%	91%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
2	Steuben	Wh	0%	91%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL	105	0
2	Steuben	WsB	0%	91%	0	N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L	45	0
2	Steuben	Wx	0%	91%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages							140		0.29				0.174	0.21	1					51
County Totals			100%		190											93	272			
2	DEKALB	BaA	0%	9%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
2	DEKALB	BaB2	0%	9%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL	105	0
2	DEKALB	Bn	0%	9%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
2	DEKALB	BoB	0%	9%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
2	DEKALB	CrA	67%	9%	13	N	140	0.28	0.19	250	2	0.260	0.173	0.25	1	2.6	32	L	45	30
2	DEKALB	Em	0%	9%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
2	DEKALB	HaA	0%	9%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
2	DEKALB	HdB	0%	9%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
2	DEKALB	Hw	0%	9%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
2	DEKALB	Ld	0%	9%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
2	DEKALB	Mc	0%	9%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
2	DEKALB	MfB	0%	9%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
2	DEKALB	OdB	0%	9%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
2	DEKALB	OhB	0%	9%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
2	DEKALB	Pe	0%	9%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC	105	0
2	DEKALB	RaB	0%	9%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
2	DEKALB	Re	0%	9%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
2	DEKALB	Se	0%	9%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
2	DEKALB	Ud	0%	9%	0	N	140	0.32	0.00	0	0		0.000	0.25	1	0.0	0	L	45	0
2	DEKALB	Wa	33%	9%	6	N	140	0.32	0.11	200	1	0.160	0.053	0.25	1	1.8	11	SiL	105	35
2	DEKALB	Wt	0%	9%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages							140		0.29				0.227	0.25	1					65
County Totals			100%		19											49	44			
2	LAGRANGE	Ad	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
2	LAGRANGE	Am	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
2	LAGRANGE	BaA	0%	0%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
2	LAGRANGE	BoA	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
2	LAGRANGE	BoB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
2	LAGRANGE	Bp	0%	0%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
2	LAGRANGE	BtA	0%	0%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
2	LAGRANGE	BxA	0%	0%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
2	LAGRANGE	ChB	0%	0%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
2	LAGRANGE	CrA	0%	0%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
2	LAGRANGE	Ed	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
2	LAGRANGE	Gf	0%	0%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
2	LAGRANGE	Gr	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
2	LAGRANGE	HaA	0%	0%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
2	LAGRANGE	HdA	0%	0%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
2	LAGRANGE	HdB	0%	0%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
2	LAGRANGE	Ho	0%	0%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
2	LAGRANGE	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
2	LAGRANGE	Hw	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
2	LAGRANGE	Hx	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
2	LAGRANGE	MbB	0%	0%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
2	LAGRANGE	Mc	0%	0%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
2	LAGRANGE	MeB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
2	LAGRANGE	NaA	0%	0%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
2	LAGRANGE	OsA	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
2	LAGRANGE	OsB	0%	0%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
2	LAGRANGE	OuB	0%	0%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
2	LAGRANGE	Pm	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
2	LAGRANGE	PrA	0%	0%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
2	LAGRANGE	Pt	0%	0%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
2	LAGRANGE	Pv	0%	0%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
2	LAGRANGE	PxB	0%	0%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
2	LAGRANGE	PzA	0%	0%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
2	LAGRANGE	RaB	0%	0%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
2	LAGRANGE	Rb	0%	0%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
2	LAGRANGE	Se	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
2	LAGRANGE	ShA	0%	0%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
2	LAGRANGE	ShB	0%	0%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
2	LAGRANGE	Ud	0%	0%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
2	LAGRANGE	Wa	0%	0%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
2	LAGRANGE	WeA	0%	0%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
2	LAGRANGE	WeB	0%	0%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
2	LAGRANGE	Wi	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages							140		0.00				0.000	0.21	1					0
County Totals			0%		0											116	0			
Subbasin Weighted Averages							140		0.29				0.179	0.21	1					52
Subbasin Totals					209												315			

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY ACREAGE	HES	R	WEIGHTED K	WEIGHTED K	WEIGHTED L	WEIGHTED S	WEIGHTED LS	WEIGHTED LS	WEIGHTED C	WEIGHTED P	SOIL LOSS	GROSS EROSION	TEXTURE	P	WEIGHTED UAL	WEIGHTED P UAL
3	Steuben	Ad	0%	16%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.0	0	M		15	0
3	Steuben	BnA	0%	16%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL		105	0
3	Steuben	BoB	73%	16%	177	N	140	0.17	0.12	250	4	0.430	0.313	0.21	1	2.1	373	LS		45	33
3	Steuben	BtA	0%	16%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS		45	0
3	Steuben	Bz	0%	16%	0	N	140	0.28	0.00		1	0.170	0.000	0.21	1	1.4	0	L		85	0
3	Steuben	CcA	0%	16%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL		45	0
3	Steuben	ChB	0%	16%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS		20	0
3	Steuben	ChC	0%	16%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS		20	0
3	Steuben	Co	9%	16%	22	N	140	0.28	0.03		1	0.126	0.011	0.21	1	1.0	22	SL		45	4
3	Steuben	CrA	5%	16%	11	N	140	0.32	0.01	250	2	0.220	0.010	0.21	1	2.0	22	L		85	4
3	Steuben	Dr	0%	16%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL		105	0
3	Steuben	Ed	5%	16%	11	N	140	0.43	0.02	200	1	0.120	0.005	0.21	1	1.5	16	M		15	1
3	Steuben	Gs	0%	16%	0	N	140	0.17	0.00		1	0.146	0.000	0.21	1	0.7	0	LS		45	0
3	Steuben	HaA	0%	16%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L		85	0
3	Steuben	Hn	0%	16%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0				0
3	Steuben	Ht	5%	16%	11	N	140	0.01	0.00	225	1	0.160	0.007	0.21	1	0.0	1	M		15	1
3	Steuben	Hw	5%	16%	11	N	140	0.01	0.00	200	1	0.120	0.005	0.21	1	0.0	0	M		15	1
3	Steuben	KoA	0%	16%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL		45	0
3	Steuben	KoB	0%	16%	0	N	140	0.28	0.00		4	0.577	0.000	0.21	1	4.6	0	SL		45	0
3	Steuben	MbA	0%	16%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L		45	0
3	Steuben	MbB	0%	16%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L		45	0
3	Steuben	Mc	0%	16%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M		15	0
3	Steuben	MfB	0%	16%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS		45	0
3	Steuben	MfC	0%	16%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS		45	0
3	Steuben	Mm	0%	16%	0	N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L		45	0
3	Steuben	Mn	0%	16%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL		110	0
3	Steuben	Mx	0%	16%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS		45	0
3	Steuben	Mz	0%	16%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M		15	0
3	Steuben	OhA	0%	16%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS		45	0
3	Steuben	OhB	0%	16%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS		45	0
3	Steuben	OhC	0%	16%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS		45	0
3	Steuben	Pa	0%	16%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M		15	0
3	Steuben	Pe	0%	16%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL		110	0
3	Steuben	Pg	0%	16%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G			0
3	Steuben	PnA	0%	16%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS		20	0
3	Steuben	PnB	0%	16%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS		20	0
3	Steuben	Rb	0%	16%	0	N	140	0.28	0.00	225	1	0.160	0.000	0.21	1	1.3	0	L		45	0
3	Steuben	RxA	0%	16%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL		45	0
3	Steuben	RxB	0%	16%	0	N	140	0.24	0.00		4	0.528	0.000	0.21	1	3.6	0	SL		45	0
3	Steuben	Ry	0%	16%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS		45	0
3	Steuben	Sh	0%	16%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L		45	0
3	Steuben	Wa	0%	16%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL		105	0
3	Steuben	Wh	0%	16%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL		105	0
3	Steuben	WsB	0%	16%	0	N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L		45	0
3	Steuben	Wx	0%	16%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L		45	0
County Weighted Averages							140		0.18				0.352	0.21	1						43
County Totals			100%	16%	244											93	435				
3	DEKALB	BaA	0%	84%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL		105	0
3	DEKALB	BaB2	0%	84%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL		105	0
3	DEKALB	Bn	0%	84%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC		110	0
3	DEKALB	BoB	22%	84%	288	N	140	0.24	0.05	250	3	0.380	0.083	0.25	1	3.2	930	SL		45	10
3	DEKALB	CrA	6%	84%	77	N	140	0.28	0.02	250	2	0.260	0.015	0.25	1	2.6	199	L		45	3
3	DEKALB	Em	0%	84%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L		45	0
3	DEKALB	HaA	0%	84%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L		45	0
3	DEKALB	HdB	0%	84%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL		30	0
3	DEKALB	Hw	9%	84%	119	N	140	0.01	0.00	200	1	0.120	0.011	0.25	1	0.0	5	M		15	1
3	DEKALB	Ld	0%	84%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL		30	0
3	DEKALB	Mc	0%	84%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M		15	0
3	DEKALB	MfB	5%	84%	70	N	140	0.17	0.01	150	4	0.470	0.025	0.25	1	2.8	199	LS		45	2

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
3	DEKALB	OdB	0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
3	DEKALB	OhB	2%	28	N	140	0.24	0.01	250	3	0.380	0.008	0.25	1	3.2	91	SL	45	1
3	DEKALB	Pe	1%	14	N	140	0.24	0.00	200	1	0.160	0.002	0.25	1	1.4	19	SiC	105	1
3	DEKALB	RaB	0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
3	DEKALB	Re	19%	252	N	140	0.28	0.05	400	1	0.130	0.025	0.25	1	1.3	326	L	45	9
3	DEKALB	Se	21%	280	N	140	0.24	0.05	200	1	0.160	0.034	0.25	1	1.4	382	SL	45	10
3	DEKALB	Ud	0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
3	DEKALB	Wa	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL	105	0
3	DEKALB	Wt	14%	189	N	140	0.37	0.05	250	1	0.170	0.024	0.25	1	2.2	422	SiL	105	15
County Weighted Averages						140		0.24				0.227	0.25	1					52
County Totals			100%	1318											49	2572			
3	LAGRANGE	Ad	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
3	LAGRANGE	Am	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
3	LAGRANGE	BaA	0%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
3	LAGRANGE	BoA	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
3	LAGRANGE	BoB	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
3	LAGRANGE	Bp	0%	0	N	140	0.20	0.00	200	4	0.460	0.000	0.21	1	1.0	0	SL	45	0
3	LAGRANGE	BtA	0%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
3	LAGRANGE	BxA	0%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
3	LAGRANGE	ChB	0%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
3	LAGRANGE	CrA	0%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
3	LAGRANGE	Ed	0%	0	N	140	0.01	0.00	225	1	0.120	0.000	0.21	1	0.0	0	M	15	0
3	LAGRANGE	Gf	0%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
3	LAGRANGE	Gr	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
3	LAGRANGE	HaA	0%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
3	LAGRANGE	HdA	0%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
3	LAGRANGE	HdB	0%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
3	LAGRANGE	Ho	0%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
3	LAGRANGE	Ht	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
3	LAGRANGE	Hw	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
3	LAGRANGE	Hx	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
3	LAGRANGE	MbB	0%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
3	LAGRANGE	Mc	0%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
3	LAGRANGE	MeB	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
3	LAGRANGE	NaA	0%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
3	LAGRANGE	OsA	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
3	LAGRANGE	OsB	0%	0	N	140	0.24	0.00	250	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
3	LAGRANGE	OuB	0%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
3	LAGRANGE	Pm	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
3	LAGRANGE	PrA	0%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
3	LAGRANGE	Pt	0%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
3	LAGRANGE	Pv	0%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
3	LAGRANGE	PxB	0%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
3	LAGRANGE	PzA	0%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
3	LAGRANGE	RaB	0%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
3	LAGRANGE	Rb	0%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
3	LAGRANGE	Se	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
3	LAGRANGE	ShA	0%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
3	LAGRANGE	ShB	0%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
3	LAGRANGE	Ud	0%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
3	LAGRANGE	Wa	0%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
3	LAGRANGE	WeA	0%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
3	LAGRANGE	WeB	0%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
3	LAGRANGE	Wi	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages						140		0.00				0.000	0.21	1					0
County Totals			0	0%	0										116	0			
Subbasin Weighted Averages						140													50
Subbasin Totals					1562			0.2348				0.247	0.25	1					

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
4	Steuben	Ad	0%	91%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.0	0	M	15	0
4	Steuben	BnA	0%	91%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
4	Steuben	BoB	12%	91%	156	N	140	0.17	0.02	250	4	0.430	0.053	0.21	1	2.1	327	LS	45	6
4	Steuben	BtA	0%	91%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
4	Steuben	Bz	6%	91%	78	N	140	0.28	0.02		1	0.170	0.010	0.21	1	1.4	107	L	85	5
4	Steuben	CcA	0%	91%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
4	Steuben	ChB	2%	91%	26	N	140	0.17	0.00	225	4	0.430	0.009	0.21	1	2.1	55	FS	20	0
4	Steuben	ChC	0%	91%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
4	Steuben	Co	3%	91%	35	N	140	0.28	0.01		1	0.126	0.003	0.21	1	1.0	35	SL	45	1
4	Steuben	CrA	4%	91%	52	N	140	0.32	0.01	250	2	0.220	0.009	0.21	1	2.0	105	L	85	3
4	Steuben	Dr	0%	91%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL	105	0
4	Steuben	Ed	8%	91%	95	N	140	0.43	0.03	200	1	0.120	0.009	0.21	1	1.5	141	M	15	1
4	Steuben	Gs	0%	91%	0	N	140	0.17	0.00			0.146	0.000	0.21	1	0.7	0	LS	45	0
4	Steuben	HaA	0%	91%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
4	Steuben	Hn	2%	91%	26	N	140	0.01	0.00			0.110	0.002	0.21	1	0.0	1			0
4	Steuben	Ht	14%	91%	182	N	140	0.01	0.00	225	1	0.160	0.023	0.21	1	0.0	8	M	15	2
4	Steuben	Hw	1%	91%	17	N	140	0.01	0.00	200	1	0.120	0.002	0.21	1	0.0	1	M	15	0
4	Steuben	KoA	0%	91%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
4	Steuben	KoB	6%	91%	78	N	140	0.28	0.02		4	0.577	0.036	0.21	1	4.6	362	SL	45	3
4	Steuben	MbA	0%	91%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
4	Steuben	MbB	0%	91%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
4	Steuben	Mc	0%	91%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
4	Steuben	MfB	0%	91%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS	45	0
4	Steuben	MfC	0%	91%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS	45	0
4	Steuben	Mm	5%	91%	69	N	140	0.28	0.02			0.170	0.009	0.21	1	1.4	95	L	45	2
4	Steuben	Mn	4%	91%	52	N	140	0.28	0.01			0.126	0.005	0.21	1	1.0	53	SiCL	110	5
4	Steuben	Mx	0%	91%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
4	Steuben	Mz	0%	91%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
4	Steuben	OhA	0%	91%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
4	Steuben	OhB	14%	91%	182	N	140	0.24	0.03	250	4	0.580	0.083	0.21	1	4.0	727	LS	45	6
4	Steuben	OhC	2%	91%	26	N	140	0.24	0.00		9	1.659	0.034	0.21	1	11.5	297	LS	45	1
4	Steuben	Pa	0%	91%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
4	Steuben	Pe	0%	91%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
4	Steuben	Pg	0%	91%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
4	Steuben	PnA	0%	91%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
4	Steuben	PnB	0%	91%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
4	Steuben	Rb	0%	91%	0	N	140	0.28	0.00	225	1	0.160	0.000	0.21	1	1.3	0	L	45	0
4	Steuben	RxA	0%	91%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
4	Steuben	RxB	3%	91%	43	N	140	0.24	0.01		4	0.528	0.018	0.21	1	3.6	158	SL	45	2
4	Steuben	Ry	5%	91%	61	N	140	0.17	0.01			0.195	0.009	0.21	1	1.0	58	LS	45	2
4	Steuben	Sh	0%	91%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
4	Steuben	Wa	0%	91%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
4	Steuben	Wh	1%	91%	17	N	140	0.37	0.00		1	0.160	0.002	0.21	1	1.7	20	SiL	105	1
4	Steuben	WsB	5%	91%	69	N	140	0.28	0.02		4	0.528	0.029	0.21	1	4.3	294	L	45	2
4	Steuben	Wx	0%	91%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages							140		0.22				0.347	0.21	1					44
County Totals			100%	91%	1262											93	2852			
4	DEKALB	BaA	0%	9%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
4	DEKALB	BaB2	7%	9%	8	N	140	0.43	0.03	200	3	0.350	0.024	0.25	1	5.3	45	SiL	105	7
4	DEKALB	Bn	0%	9%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
4	DEKALB	BoB	0%	9%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
4	DEKALB	CrA	0%	9%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L	45	0
4	DEKALB	Em	0%	9%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
4	DEKALB	HaA	0%	9%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
4	DEKALB	HdB	0%	9%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
4	DEKALB	Hw	3%	9%	4	N	140	0.01	0.00	200	1	0.120	0.004	0.25	1	0.0	0	M	15	1
4	DEKALB	Ld	0%	9%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
4	DEKALB	Mc	0%	9%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
4	DEKALB	MfB	0%	9%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	% AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P	UAL	WEIGHTED P UAL
12	DEKALB	OdB	0%	0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS		45	0
12	DEKALB	OhB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL		45	0
12	DEKALB	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC		105	0
12	DEKALB	RaB	0%	0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL		45	0
12	DEKALB	Re	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L		45	0
12	DEKALB	Se	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL		45	0
12	DEKALB	Ud	0%	0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L		45	0
12	DEKALB	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL		105	0
12	DEKALB	Wt	0%	0%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL		105	0
County Weighted Averages							140		0.000				0.000	0.25	1						0
County Totals			0%	0%	0											49	0				
12	LAGRANGE	Ad	7%	100%	39	N	140	0.01	0.00	250	1	0.170	0.011	0.21	1	0.1	2	M		15	1
12	LAGRANGE	Am	2%	100%	13	N	140	0.01	0.00	250	1	0.170	0.004	0.21	1	0.1	1	M		15	0
12	LAGRANGE	BaA	0%	100%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL		105	0
12	LAGRANGE	BoA	20%	100%	118	N	140	0.17	0.03	175	1	0.150	0.030	0.21	1	0.8	90	LS		45	9
12	LAGRANGE	BoB	7%	100%	39	N	140	0.17	0.01	175	4	0.500	0.033	0.21	1	2.5	100	LS		45	3
12	LAGRANGE	Bp	0%	100%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL		45	0
12	LAGRANGE	BtA	0%	100%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S		20	0
12	LAGRANGE	BxA	0%	100%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL		45	0
12	LAGRANGE	ChB	0%	100%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS		20	0
12	LAGRANGE	CrA	2%	100%	13	N	140	0.28	0.01	225	2	0.210	0.005	0.21	1	1.8	23	L		45	1
12	LAGRANGE	Ed	9%	100%	53	N	140	0.01	0.00	200	1	0.120	0.011	0.21	1	0.0	2	M		15	1
12	LAGRANGE	Gf	2%	100%	13	N	140	0.20	0.00	175	1	0.150	0.003	0.21	1	0.9	12	SL		45	1
12	LAGRANGE	Gr	0%	100%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS		25	0
12	LAGRANGE	HaA	0%	100%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L		45	0
12	LAGRANGE	HdA	0%	100%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL		45	0
12	LAGRANGE	HdB	0%	100%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL		45	0
12	LAGRANGE	Ho	11%	100%	66	N	140	0.24	0.03	175	1	0.150	0.017	0.21	1	1.1	71	SL		45	5
12	LAGRANGE	Ht	2%	100%	13	N	140	0.01	0.00	225	1	0.160	0.004	0.21	1	0.0	1	M		15	0
12	LAGRANGE	Hw	2%	100%	13	N	140	0.01	0.00	225	1	0.160	0.004	0.21	1	0.0	1	M		15	0
12	LAGRANGE	Hx	7%	100%	39	N	140	0.01	0.00	225	1	0.160	0.011	0.21	1	0.0	2	M		15	1
12	LAGRANGE	MbB	0%	100%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL		45	0
12	LAGRANGE	Mc	9%	100%	53	N	140	0.01	0.00	175	1	0.150	0.013	0.21	1	0.0	2	M		15	1
12	LAGRANGE	MeB	0%	100%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS		45	0
12	LAGRANGE	MaA	0%	100%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL		105	0
12	LAGRANGE	OsA	0%	100%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS		45	0
12	LAGRANGE	OsB	0%	100%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS		45	0
12	LAGRANGE	OuB	0%	100%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0				0
12	LAGRANGE	Pm	0%	100%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M		15	0
12	LAGRANGE	PrA	0%	100%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L		45	0
12	LAGRANGE	Pt	0%	100%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL		110	0
12	LAGRANGE	Pv	0%	100%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G			0
12	LAGRANGE	PxB	0%	100%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S		20	0
12	LAGRANGE	PzA	0%	100%	0	N	140	0.15	0.00	200	1	0.160	0.000	0.21	1	0.7	0	LS		45	0
12	LAGRANGE	RaB	0%	100%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL		45	0
12	LAGRANGE	Rb	0%	100%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L		45	0
12	LAGRANGE	Se	20%	100%	118	N	140	0.24	0.05	250	1	0.170	0.034	0.21	1	1.2	144	L		45	9
12	LAGRANGE	ShA	0%	100%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL		45	0
12	LAGRANGE	ShB	0%	100%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL		45	0
12	LAGRANGE	Ud	0%	100%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L		45	0
12	LAGRANGE	Wa	0%	100%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL		105	0
12	LAGRANGE	WeA	0%	100%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL		30	0
12	LAGRANGE	WeB	0%	100%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL		30	0
12	LAGRANGE	Wi	0%	100%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0				0
County Weighted Averages							140		0.13				0.179	0.21	1						34
County Totals			100%	100%	592											116	450				
Subbasin Weighted Averages							140		0.13				0.179	0.21	1						34
Subbasin Totals					592											258	450				

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN AREA	% IN COUNTY	ACREAGE	HES	R	WEIGHTED K	K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
13	Steuben	Ad	0%	0%	0	N	140	0.01	0.00	250		0.170	0.000	0.21	1	0.0	0	M	15	0
13	Steuben	BnA	0%	0%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
13	Steuben	BoB	0%	0%	0	N	140	0.17	0.00	250	4	0.430	0.000	0.21	1	2.1	0	LS	45	0
13	Steuben	BtA	0%	0%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
13	Steuben	Bz	0%	0%	0	N	140	0.28	0.00		1	0.170	0.000	0.21	1	1.4	0	L	85	0
13	Steuben	CcA	0%	0%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
13	Steuben	ChB	0%	0%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS	20	0
13	Steuben	ChC	0%	0%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
13	Steuben	Co	0%	0%	0	N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL	45	0
13	Steuben	CrA	0%	0%	0	N	140	0.32	0.00	250	2	0.220	0.000	0.21	1	2.0	0	L	85	0
13	Steuben	Dr	0%	0%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL	105	0
13	Steuben	Ed	0%	0%	0	N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M	15	0
13	Steuben	Gs	0%	0%	0	N	140	0.17	0.00			0.146	0.000	0.21	1	0.7	0	LS	45	0
13	Steuben	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
13	Steuben	Hn	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0			0
13	Steuben	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
13	Steuben	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
13	Steuben	KoA	0%	0%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
13	Steuben	KoB	0%	0%	0	N	140	0.28	0.00		4	0.577	0.000	0.21	1	4.6	0	SL	45	0
13	Steuben	MbA	0%	0%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
13	Steuben	MbB	0%	0%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
13	Steuben	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
13	Steuben	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS	45	0
13	Steuben	MfC	0%	0%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS	45	0
13	Steuben	Mm	0%	0%	0	N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L	45	0
13	Steuben	Mn	0%	0%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
13	Steuben	Mx	0%	0%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
13	Steuben	Mz	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
13	Steuben	OhA	0%	0%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
13	Steuben	OhB	0%	0%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
13	Steuben	OhC	0%	0%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS	45	0
13	Steuben	Pa	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
13	Steuben	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
13	Steuben	Pg	0%	0%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
13	Steuben	PnA	0%	0%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
13	Steuben	PnB	0%	0%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
13	Steuben	Rb	0%	0%	0	N	140	0.28	0.00	225	1	0.160	0.000	0.21	1	1.3	0	L	45	0
13	Steuben	RxA	0%	0%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
13	Steuben	RxB	0%	0%	0	N	140	0.24	0.00		4	0.528	0.000	0.21	1	3.6	0	SL	45	0
13	Steuben	Ky	0%	0%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS	45	0
13	Steuben	Sh	0%	0%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
13	Steuben	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
13	Steuben	Wh	0%	0%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL	105	0
13	Steuben	WsB	0%	0%	0	N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L	45	0
13	Steuben	Wx	0%	0%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages							140		0.00				0.000	0.21	1					0
County Totals			0%	0%	0											93	0			
13	DEKALB	BaA	0%	0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
13	DEKALB	BaB2	0%	0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL	105	0
13	DEKALB	Bn	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
13	DEKALB	BoB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
13	DEKALB	CrA	0%	0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L	45	0
13	DEKALB	Em	0%	0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
13	DEKALB	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
13	DEKALB	HdB	0%	0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
13	DEKALB	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
13	DEKALB	Ld	0%	0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
13	DEKALB	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
13	DEKALB	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	% IN AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
13	DEKALB	OdB	0%	0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
13	DEKALB	OhB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
13	DEKALB	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC	105	0
13	DEKALB	RaB	0%	0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
13	DEKALB	Re	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
13	DEKALB	Se	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
13	DEKALB	Ud	0%	0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
13	DEKALB	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL	105	0
13	DEKALB	Wt	0%	0%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages							140		0.000				0.000	0.25	1					0
County Totals			0%	0%	0											49	0			
13	LAGRANGE	Ad	0%	100%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
13	LAGRANGE	Am	0%	100%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
13	LAGRANGE	BaA	0%	100%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
13	LAGRANGE	BoA	0%	100%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
13	LAGRANGE	BoB	29%	100%	146	N	140	0.17	0.05	175	4	0.500	0.145	0.21	1	2.5	370	LS	45	13
13	LAGRANGE	Bp	0%	100%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
13	LAGRANGE	BtA	0%	100%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
13	LAGRANGE	BxA	0%	100%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
13	LAGRANGE	ChB	0%	100%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
13	LAGRANGE	CrA	3%	100%	16	N	140	0.28	0.01	225	2	0.210	0.007	0.21	1	1.8	28	L	45	1
13	LAGRANGE	Ed	6%	100%	32	N	140	0.01	0.00	200	1	0.120	0.008	0.21	1	0.0	1	M	15	1
13	LAGRANGE	Gf	0%	100%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
13	LAGRANGE	Gr	0%	100%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
13	LAGRANGE	HaA	0%	100%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
13	LAGRANGE	HdA	0%	100%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
13	LAGRANGE	HdB	0%	100%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
13	LAGRANGE	Ho	0%	100%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
13	LAGRANGE	Ht	16%	100%	81	N	140	0.01	0.00	225	1	0.160	0.026	0.21	1	0.0	4	M	15	2
13	LAGRANGE	Hw	0%	100%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
13	LAGRANGE	Hx	3%	100%	16	N	140	0.01	0.00	225	1	0.160	0.005	0.21	1	0.0	1	M	15	0
13	LAGRANGE	MbB	0%	100%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
13	LAGRANGE	Mc	6%	100%	32	N	140	0.01	0.00	175	1	0.150	0.010	0.21	1	0.0	1	M	15	1
13	LAGRANGE	MeB	0%	100%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
13	LAGRANGE	NaA	0%	100%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
13	LAGRANGE	OsA	0%	100%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
13	LAGRANGE	OsB	0%	100%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
13	LAGRANGE	OuB	0%	100%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
13	LAGRANGE	Pm	0%	100%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
13	LAGRANGE	PrA	0%	100%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
13	LAGRANGE	Pt	0%	100%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
13	LAGRANGE	Pv	0%	100%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
13	LAGRANGE	PxB	0%	100%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
13	LAGRANGE	PzA	0%	100%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
13	LAGRANGE	RaB	0%	100%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
13	LAGRANGE	Rb	10%	100%	49	N	140	0.32	0.03	225	1	0.160	0.015	0.21	1	1.5	74	L	45	4
13	LAGRANGE	Se	6%	100%	32	N	140	0.24	0.02	250	1	0.170	0.011	0.21	1	1.2	39	L	45	3
13	LAGRANGE	ShA	0%	100%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
13	LAGRANGE	ShB	0%	100%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
13	LAGRANGE	Ud	0%	100%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
13	LAGRANGE	Wa	0%	100%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
13	LAGRANGE	WeA	0%	100%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
13	LAGRANGE	WeB	19%	100%	97	N	140	0.28	0.05	225	4	0.560	0.108	0.21	1	4.7	455	FSL	30	6
13	LAGRANGE	Wi	0%	100%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages							140		0.16				0.335	0.21	1					32
County Totals			100%	100%	502											116	974			
Subbasin Weighted Averages							140		0.16				0.335	0.21	1					32
Subbasin Totals					502											258	974			

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P	UAL	WEIGHTED P UAL
14	Steuben	Ad	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.0	0	M		15	0
14	Steuben	BnA	0%	0%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL		105	0
14	Steuben	BoB	0%	0%	0	N	140	0.17	0.00	250	4	0.430	0.000	0.21	1	2.1	0	LS		45	0
14	Steuben	BtA	0%	0%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS		45	0
14	Steuben	Bz	0%	0%	0	N	140	0.28	0.00		1	0.170	0.000	0.21	1	1.4	0	L		85	0
14	Steuben	CcA	0%	0%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL		45	0
14	Steuben	ChB	0%	0%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS		20	0
14	Steuben	ChC	0%	0%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS		20	0
14	Steuben	Co	0%	0%	0	N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL		45	0
14	Steuben	CrA	0%	0%	0	N	140	0.32	0.00	250	2	0.220	0.000	0.21	1	2.0	0	L		85	0
14	Steuben	Dr	0%	0%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL		105	0
14	Steuben	Ed	0%	0%	0	N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M		15	0
14	Steuben	Gs	0%	0%	0	N	140	0.17	0.00		1	0.146	0.000	0.21	1	0.7	0	LS		45	0
14	Steuben	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L		85	0
14	Steuben	Hn	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0				0
14	Steuben	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M		15	0
14	Steuben	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M		15	0
14	Steuben	KoA	0%	0%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL		45	0
14	Steuben	KoB	0%	0%	0	N	140	0.28	0.00		4	0.577	0.000	0.21	1	4.6	0	SL		45	0
14	Steuben	MbA	0%	0%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L		45	0
14	Steuben	MbB	0%	0%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L		45	0
14	Steuben	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M		15	0
14	Steuben	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS		45	0
14	Steuben	MfC	0%	0%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS		45	0
14	Steuben	Mm	0%	0%	0	N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L		45	0
14	Steuben	Mn	0%	0%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL		110	0
14	Steuben	Mx	0%	0%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS		45	0
14	Steuben	Mz	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M		15	0
14	Steuben	OhA	0%	0%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS		45	0
14	Steuben	OhB	0%	0%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS		45	0
14	Steuben	OhC	0%	0%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS		45	0
14	Steuben	Pa	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M		15	0
14	Steuben	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL		110	0
14	Steuben	Pg	0%	0%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G			0
14	Steuben	PnA	0%	0%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS		20	0
14	Steuben	PnB	0%	0%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS		20	0
14	Steuben	Rb	0%	0%	0	N	140	0.28	0.00	225	1	0.160	0.000	0.21	1	1.3	0	L		45	0
14	Steuben	RxA	0%	0%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL		45	0
14	Steuben	RxB	0%	0%	0	N	140	0.24	0.00		4	0.528	0.000	0.21	1	3.6	0	SL		45	0
14	Steuben	Ry	0%	0%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS		45	0
14	Steuben	Sh	0%	0%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L		45	0
14	Steuben	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL		105	0
14	Steuben	Wh	0%	0%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL		105	0
14	Steuben	WsB	0%	0%	0	N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L		45	0
14	Steuben	Wx	0%	0%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L		45	0
County Weighted Averages							140		0.00				0.000	0.21	1						0
County Totals			0%	0%	0											93	0				
14	DEKALB	BeA	0%	0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL		105	0
14	DEKALB	BeB2	0%	0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL		105	0
14	DEKALB	Bn	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC		110	0
14	DEKALB	BoB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL		45	0
14	DEKALB	CrA	0%	0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L		45	0
14	DEKALB	Em	0%	0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L		45	0
14	DEKALB	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L		45	0
14	DEKALB	HdB	0%	0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL		30	0
14	DEKALB	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M		15	0
14	DEKALB	Ld	0%	0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL		30	0
14	DEKALB	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M		15	0
14	DEKALB	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS		45	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY %	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
14	DEKALB	OdB	0%	0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
14	DEKALB	OhB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
14	DEKALB	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC	105	0
14	DEKALB	RaB	0%	0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
14	DEKALB	Re	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
14	DEKALB	Se	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
14	DEKALB	Ud	0%	0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
14	DEKALB	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL	105	0
14	DEKALB	Wt	0%	0%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages							140		0.000				0.000	0.25	1					0
County Totals			0%	0%	0											49	0			
14	LAGRANGE	Ad	0%	100%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
14	LAGRANGE	Am	0%	100%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
14	LAGRANGE	BaA	0%	100%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
14	LAGRANGE	BoA	0%	100%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
14	LAGRANGE	BoB	0%	100%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
14	LAGRANGE	Bp	0%	100%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
14	LAGRANGE	BtA	0%	100%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
14	LAGRANGE	BxA	0%	100%	0	N	140	0.24	0.00	200	4	0.200	0.000	0.21	1	1.4	0	SL	45	0
14	LAGRANGE	ChB	0%	100%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
14	LAGRANGE	CrA	0%	100%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
14	LAGRANGE	Ed	0%	100%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
14	LAGRANGE	Gf	0%	100%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
14	LAGRANGE	Gr	0%	100%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
14	LAGRANGE	HaA	0%	100%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
14	LAGRANGE	HdA	0%	100%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
14	LAGRANGE	HdB	0%	100%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
14	LAGRANGE	Ho	0%	100%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
14	LAGRANGE	Ht	7%	100%	18	N	140	0.01	0.00	225	1	0.160	0.011	0.21	1	0.0	0	M	15	1
14	LAGRANGE	Hw	0%	100%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
14	LAGRANGE	Hx	0%	100%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
14	LAGRANGE	MbB	0%	100%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
14	LAGRANGE	Mc	0%	100%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
14	LAGRANGE	MeB	0%	100%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
14	LAGRANGE	NaA	0%	100%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
14	LAGRANGE	OsA	0%	100%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
14	LAGRANGE	OsB	0%	100%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
14	LAGRANGE	OuB	0%	100%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
14	LAGRANGE	Pm	0%	100%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
14	LAGRANGE	PrA	0%	100%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
14	LAGRANGE	Pt	0%	100%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
14	LAGRANGE	Pv	0%	100%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
14	LAGRANGE	PxB	0%	100%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
14	LAGRANGE	PzA	0%	100%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
14	LAGRANGE	RaB	0%	100%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
14	LAGRANGE	Rb	73%	100%	201	N	140	0.32	0.23	225	1	0.160	0.117	0.21	1	1.5	307	L	45	33
14	LAGRANGE	Se	0%	100%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
14	LAGRANGE	ShA	0%	100%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
14	LAGRANGE	ShB	0%	100%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
14	LAGRANGE	Ud	0%	100%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
14	LAGRANGE	Wa	0%	100%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
14	LAGRANGE	WeA	0%	100%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
14	LAGRANGE	WeB	20%	100%	55	N	140	0.28	0.06	225	4	0.560	0.112	0.21	1	4.7	256	FSL	30	6
14	LAGRANGE	Wi	0%	100%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages							140		0.29				0.240	0.21	1					40
County Totals			100%	100%	274											116	564			
Subbasin Weighted Averages							140		0.29				0.240	0.21	1					40
Subbasin Totals					274											258	564			

SUB BASIN	COUNTY	SOIL SYMBOL	% AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
15	Steuben	Ad	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.0	0	M	15	0
15	Steuben	BnA	0%	0%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SIL	105	0
15	Steuben	BoB	0%	0%	0	N	140	0.17	0.00	250	4	0.430	0.000	0.21	1	2.1	0	LS	45	0
15	Steuben	BtA	0%	0%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
15	Steuben	Bz	0%	0%	0	N	140	0.28	0.00		1	0.170	0.000	0.21	1	1.4	0	L	85	0
15	Steuben	CcA	0%	0%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
15	Steuben	ChB	0%	0%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS	20	0
15	Steuben	ChC	0%	0%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
15	Steuben	Co	0%	0%	0	N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL	45	0
15	Steuben	CrA	0%	0%	0	N	140	0.32	0.00	250	2	0.220	0.000	0.21	1	2.0	0	L	85	0
15	Steuben	Dr	0%	0%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SIL	105	0
15	Steuben	Ed	0%	0%	0	N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M	15	0
15	Steuben	Gs	0%	0%	0	N	140	0.17	0.00			0.146	0.000	0.21	1	0.7	0	LS	45	0
15	Steuben	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
15	Steuben	Hn	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0			0
15	Steuben	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
15	Steuben	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
15	Steuben	KoA	0%	0%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
15	Steuben	KoB	0%	0%	0	N	140	0.28	0.00		4	0.577	0.000	0.21	1	4.6	0	SL	45	0
15	Steuben	MbA	0%	0%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
15	Steuben	MbB	0%	0%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
15	Steuben	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
15	Steuben	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS	45	0
15	Steuben	MfC	0%	0%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS	45	0
15	Steuben	Mm	0%	0%	0	N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L	45	0
15	Steuben	Mn	0%	0%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SICL	110	0
15	Steuben	Mx	0%	0%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
15	Steuben	Mz	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
15	Steuben	OhA	0%	0%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
15	Steuben	OhB	0%	0%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
15	Steuben	OhC	0%	0%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS	45	0
15	Steuben	Pa	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
15	Steuben	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SICL	110	0
15	Steuben	Pg	0%	0%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
15	Steuben	PnA	0%	0%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
15	Steuben	PnB	0%	0%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
15	Steuben	Rb	0%	0%	0	N	140	0.28	0.00	225	1	0.160	0.000	0.21	1	1.3	0	L	45	0
15	Steuben	RxA	0%	0%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
15	Steuben	RxB	0%	0%	0	N	140	0.24	0.00		4	0.528	0.000	0.21	1	3.6	0	SL	45	0
15	Steuben	Ry	0%	0%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS	45	0
15	Steuben	Sh	0%	0%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
15	Steuben	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SIL	105	0
15	Steuben	Wh	0%	0%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SIL	105	0
15	Steuben	WsB	0%	0%	0	N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L	45	0
15	Steuben	Wx	0%	0%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages							140		0.00				0.000	0.21	1					0
County Totals			0%	0%	0											93	0			
15	DEKALB	BaA	0%	0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SIL	105	0
15	DEKALB	BaB2	0%	0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SIL	105	0
15	DEKALB	Bn	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SIC	110	0
15	DEKALB	BoB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
15	DEKALB	CrA	0%	0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L	45	0
15	DEKALB	Em	0%	0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
15	DEKALB	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
15	DEKALB	HdB	0%	0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
15	DEKALB	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
15	DEKALB	Ld	0%	0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
15	DEKALB	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
15	DEKALB	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY ACREAGE	HES	R	WEIGHTED K	K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
15	DEKALB	OdB	0%	0%	0 N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
15	DEKALB	OhB	0%	0%	0 N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
15	DEKALB	Pe	0%	0%	0 N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC	105	0
15	DEKALB	RaB	0%	0%	0 N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
15	DEKALB	Re	0%	0%	0 N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
15	DEKALB	Se	0%	0%	0 N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
15	DEKALB	Ud	0%	0%	0 N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
15	DEKALB	Wa	0%	0%	0 N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL	105	0
15	DEKALB	Wt	0%	0%	0 N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages						140		0.000				0.000	0.25	1					0
County Totals			0%	0%	0										49	0			
15	LAGRANGE	Ad	0%	100%	0 N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
15	LAGRANGE	Am	17%	100%	98 N	140	0.01	0.00	250	1	0.170	0.030	0.21	1	0.1	5	M	15	3
15	LAGRANGE	BaA	0%	100%	0 N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
15	LAGRANGE	BoA	9%	100%	49 N	140	0.17	0.01	175	1	0.150	0.013	0.21	1	0.8	37	LS	45	4
15	LAGRANGE	BoB	4%	100%	24 N	140	0.17	0.01	175	4	0.500	0.022	0.21	1	2.5	62	LS	45	2
15	LAGRANGE	Bp	0%	100%	0 N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
15	LAGRANGE	BtA	0%	100%	0 N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
15	LAGRANGE	BxA	0%	100%	0 N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
15	LAGRANGE	ChB	0%	100%	0 N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
15	LAGRANGE	CrA	9%	100%	49 N	140	0.28	0.02	225	2	0.210	0.018	0.21	1	1.8	86	L	45	4
15	LAGRANGE	Ed	0%	100%	0 N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
15	LAGRANGE	Gf	0%	100%	0 N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
15	LAGRANGE	Gr	0%	100%	0 N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
15	LAGRANGE	HaA	0%	100%	0 N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
15	LAGRANGE	HdA	0%	100%	0 N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
15	LAGRANGE	HdB	0%	100%	0 N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
15	LAGRANGE	Ho	0%	100%	0 N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
15	LAGRANGE	Ht	0%	100%	0 N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
15	LAGRANGE	Hw	0%	100%	0 N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
15	LAGRANGE	Hx	0%	100%	0 N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
15	LAGRANGE	MbB	0%	100%	0 N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
15	LAGRANGE	Mc	22%	100%	122 N	140	0.01	0.00	175	1	0.150	0.033	0.21	1	0.0	5	M	15	3
15	LAGRANGE	MeB	0%	100%	0 N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
15	LAGRANGE	NaA	0%	100%	0 N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
15	LAGRANGE	OsA	0%	100%	0 N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
15	LAGRANGE	OsB	0%	100%	0 N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
15	LAGRANGE	OuB	0%	100%	0 N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
15	LAGRANGE	Pm	0%	100%	0 N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
15	LAGRANGE	PrA	0%	100%	0 N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
15	LAGRANGE	Pt	0%	100%	0 N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
15	LAGRANGE	Pv	0%	100%	0 N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
15	LAGRANGE	PxB	0%	100%	0 N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
15	LAGRANGE	PzA	0%	100%	0 N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
15	LAGRANGE	RaB	0%	100%	0 N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
15	LAGRANGE	Rb	17%	100%	98 N	140	0.32	0.06	225	1	0.160	0.028	0.21	1	1.5	149	L	45	8
15	LAGRANGE	Se	0%	100%	0 N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
15	LAGRANGE	ShA	0%	100%	0 N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
15	LAGRANGE	ShB	0%	100%	0 N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
15	LAGRANGE	Ud	0%	100%	0 N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
15	LAGRANGE	Wa	0%	100%	0 N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
15	LAGRANGE	WeA	0%	100%	0 N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
15	LAGRANGE	WeB	22%	100%	122 N	140	0.28	0.06	225	4	0.560	0.122	0.21	1	4.7	571	FSL	30	7
15	LAGRANGE	Wi	0%	100%	0 N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages						140		0.17				0.265	0.21	1					30
County Totals			100%	100%	561										116	915			
Subbasin Weighted Averages						140		0.17				0.265	0.21	1					30
Subbasin Totals					561										258	915			

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY %	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P	UAL	WEIGHTED P	UAL
17	Steuben	Ad	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.0	0	M		15		0
17	Steuben	BnA	0%	0%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL		105		0
17	Steuben	BoB	0%	0%	0	N	140	0.17	0.00	250	4	0.430	0.000	0.21	1	2.1	0	LS		45		0
17	Steuben	BtA	0%	0%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS		45		0
17	Steuben	Bz	0%	0%	0	N	140	0.28	0.00		1	0.170	0.000	0.21	1	1.4	0	L		85		0
17	Steuben	CcA	0%	0%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL		45		0
17	Steuben	ChB	0%	0%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS		20		0
17	Steuben	ChC	0%	0%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS		20		0
17	Steuben	Co	0%	0%	0	N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL		45		0
17	Steuben	CrA	0%	0%	0	N	140	0.32	0.00	250	2	0.220	0.000	0.21	1	2.0	0	L		85		0
17	Steuben	Dr	0%	0%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL		105		0
17	Steuben	Ed	0%	0%	0	N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M		15		0
17	Steuben	Gs	0%	0%	0	N	140	0.17	0.00			0.146	0.000	0.21	1	0.7	0	LS		45		0
17	Steuben	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L		85		0
17	Steuben	Hn	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0					0
17	Steuben	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M		15		0
17	Steuben	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M		15		0
17	Steuben	KoA	0%	0%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL		45		0
17	Steuben	KoB	0%	0%	0	N	140	0.28	0.00		4	0.577	0.000	0.21	1	4.6	0	SL		45		0
17	Steuben	MbA	0%	0%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L		45		0
17	Steuben	MbB	0%	0%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L		45		0
17	Steuben	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M		15		0
17	Steuben	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS		45		0
17	Steuben	MfC	0%	0%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS		45		0
17	Steuben	Mm	0%	0%	0	N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L		45		0
17	Steuben	Mn	0%	0%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL		110		0
17	Steuben	Mx	0%	0%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS		45		0
17	Steuben	Mz	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M		15		0
17	Steuben	OhA	0%	0%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS		45		0
17	Steuben	OhB	0%	0%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS		45		0
17	Steuben	OhC	0%	0%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS		45		0
17	Steuben	Pa	0%	0%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M		15		0
17	Steuben	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL		110		0
17	Steuben	Pg	0%	0%	0	N	140	0.10	0.00			0.320	0.000	0.21	1	2.2	0	G				0
17	Steuben	PnA	0%	0%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS		20		0
17	Steuben	PnB	0%	0%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS		20		0
17	Steuben	Rb	0%	0%	0	N	140	0.28	0.00	225	1	0.160	0.000	0.21	1	1.3	0	L		45		0
17	Steuben	RxA	0%	0%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL		45		0
17	Steuben	RxB	0%	0%	0	N	140	0.24	0.00		4	0.528	0.000	0.21	1	3.6	0	SL		45		0
17	Steuben	Ry	0%	0%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS		45		0
17	Steuben	Sh	0%	0%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L		45		0
17	Steuben	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL		105		0
17	Steuben	Wh	0%	0%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL		105		0
17	Steuben	WsB	0%	0%	0	N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L		45		0
17	Steuben	Wx	0%	0%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L		45		0
County Weighted Averages							140		0.00				0.000	0.21	1							0
County Totals			0%	0%	0											93	0					
17	DEKALB	BaA	0%	0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL		105		0
17	DEKALB	BaB2	0%	0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL		105		0
17	DEKALB	Bn	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC		110		0
17	DEKALB	BoB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL		45		0
17	DEKALB	CrA	0%	0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L		45		0
17	DEKALB	Em	0%	0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L		45		0
17	DEKALB	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L		45		0
17	DEKALB	HdB	0%	0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL		30		0
17	DEKALB	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M		15		0
17	DEKALB	Ld	0%	0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL		30		0
17	DEKALB	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M		15		0
17	DEKALB	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS		45		0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY	ACREAGE	HES	R	WEIGHTED K	WEIGHTED K	L	S	WEIGHTED LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P	WEIGHTED UAL	WEIGHTED P UAL
17	DEKALB	OdB	0%	0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS		45	0
17	DEKALB	OhB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL		45	0
17	DEKALB	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC		105	0
17	DEKALB	RaB	0%	0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL		45	0
17	DEKALB	Re	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L		45	0
17	DEKALB	Se	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL		45	0
17	DEKALB	Ud	0%	0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L		45	0
17	DEKALB	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL		105	0
17	DEKALB	Wt	0%	0%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL		105	0
County Weighted Averages							140		0.000				0.000	0.25	1						0
County Totals			0%	0%	0											49	0				
17	LAGRANGE	Ad	0%	100%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M		15	0
17	LAGRANGE	Am	0%	100%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M		15	0
17	LAGRANGE	BaA	0%	100%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL		105	0
17	LAGRANGE	BoA	0%	100%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS		45	0
17	LAGRANGE	BoB	3%	100%	47	N	140	0.17	0.00	175	4	0.500	0.013	0.21	1	2.5	120	LS		45	1
17	LAGRANGE	Bp	0%	100%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL		45	0
17	LAGRANGE	BtA	0%	100%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S		20	0
17	LAGRANGE	BxA	0%	100%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL		45	0
17	LAGRANGE	ChB	0%	100%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS		20	0
17	LAGRANGE	CrA	10%	100%	189	N	140	0.28	0.03	225	2	0.210	0.021	0.21	1	1.8	331	L		45	5
17	LAGRANGE	Ed	0%	100%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M		15	0
17	LAGRANGE	Gf	0%	100%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL		45	0
17	LAGRANGE	Gr	0%	100%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS		25	0
17	LAGRANGE	HaA	0%	100%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L		45	0
17	LAGRANGE	HdA	0%	100%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL		45	0
17	LAGRANGE	HdB	0%	100%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL		45	0
17	LAGRANGE	Ho	3%	100%	47	N	140	0.24	0.01	175	1	0.150	0.004	0.21	1	1.1	51	SL		45	1
17	LAGRANGE	Ht	15%	100%	283	N	140	0.01	0.00	225	1	0.160	0.024	0.21	1	0.0	14	M		15	2
17	LAGRANGE	Hw	18%	100%	330	N	140	0.01	0.00	225	1	0.160	0.028	0.21	1	0.0	16	M		15	3
17	LAGRANGE	Hx	0%	100%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M		15	0
17	LAGRANGE	MbB	0%	100%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL		45	0
17	LAGRANGE	Mc	3%	100%	47	N	140	0.01	0.00	175	1	0.150	0.004	0.21	1	0.0	2	M		15	0
17	LAGRANGE	MeB	0%	100%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS		45	0
17	LAGRANGE	NaA	0%	100%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL		105	0
17	LAGRANGE	OsA	0%	100%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS		45	0
17	LAGRANGE	OsB	5%	100%	94	N	140	0.24	0.01	225	4	0.560	0.028	0.21	1	4.0	379	LS		45	2
17	LAGRANGE	OuB	0%	100%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0				0
17	LAGRANGE	Pm	0%	100%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M		15	0
17	LAGRANGE	PrA	0%	100%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L		45	0
17	LAGRANGE	Pt	0%	100%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL		110	0
17	LAGRANGE	Pv	0%	100%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G			0
17	LAGRANGE	PxB	0%	100%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S		20	0
17	LAGRANGE	PzA	0%	100%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS		45	0
17	LAGRANGE	RaB	0%	100%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL		45	0
17	LAGRANGE	Rb	13%	100%	236	N	140	0.32	0.04	225	1	0.160	0.020	0.21	1	1.5	361	L		45	6
17	LAGRANGE	Se	5%	100%	94	N	140	0.24	0.01	250	1	0.170	0.009	0.21	1	1.2	115	L		45	2
17	LAGRANGE	ShA	0%	100%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL		45	0
17	LAGRANGE	ShB	0%	100%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL		45	0
17	LAGRANGE	Ud	0%	100%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L		45	0
17	LAGRANGE	Wa	3%	100%	47	N	140	0.37	0.01	150	1	0.140	0.004	0.21	1	1.5	73	SiL		105	3
17	LAGRANGE	WeA	0%	100%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL		30	0
17	LAGRANGE	WeB	25%	100%	472	N	140	0.28	0.07	225	4	0.560	0.140	0.21	1	4.7	2208	FSL		30	8
17	LAGRANGE	Wl	0%	100%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0				0
County Weighted Averages							140		0.19				0.293	0.21	1						32
County Totals			100%	100%	1888											116	3669				
Subbasin Weighted Averages							140		0.19				0.293	0.21	1						32
Subbasin Totals					1888											258	3669				

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
4	DEKALB	OdB	0%	9%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
4	DEKALB	OhB	0%	9%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
4	DEKALB	Pe	28%	9%	34	N	140	0.24	0.07	200	1	0.160	0.044	0.25	1	1.4	46	SiC	105	29
4	DEKALB	ReB	0%	9%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
4	DEKALB	Re	38%	9%	46	N	140	0.28	0.11	400	1	0.130	0.049	0.25	1	1.3	60	L	45	17
4	DEKALB	Se	0%	9%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
4	DEKALB	Ud	0%	9%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
4	DEKALB	Wa	24%	9%	29	N	140	0.32	0.08	200	1	0.160	0.039	0.25	1	1.8	53	SiL	105	25
4	DEKALB	Wt	0%	9%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages							140		0.28				0.160	0.25	1					79
County Totals			100%	9%	122											49	204			
4	LAGRANGE	Ad	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
4	LAGRANGE	Am	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
4	LAGRANGE	BaA	0%	0%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
4	LAGRANGE	BoA	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
4	LAGRANGE	BoB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
4	LAGRANGE	Bp	0%	0%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
4	LAGRANGE	BtA	0%	0%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
4	LAGRANGE	BxA	0%	0%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
4	LAGRANGE	ChB	0%	0%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
4	LAGRANGE	CrA	0%	0%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
4	LAGRANGE	Ed	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
4	LAGRANGE	Gf	0%	0%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
4	LAGRANGE	Gr	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
4	LAGRANGE	HaA	0%	0%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
4	LAGRANGE	HdA	0%	0%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
4	LAGRANGE	HdB	0%	0%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
4	LAGRANGE	Ho	0%	0%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
4	LAGRANGE	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
4	LAGRANGE	Hw	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
4	LAGRANGE	Hx	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
4	LAGRANGE	MbB	0%	0%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
4	LAGRANGE	Mc	0%	0%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
4	LAGRANGE	MeB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
4	LAGRANGE	NaA	0%	0%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
4	LAGRANGE	OsA	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
4	LAGRANGE	OsB	0%	0%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
4	LAGRANGE	OuB	0%	0%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
4	LAGRANGE	Pm	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
4	LAGRANGE	PrA	0%	0%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
4	LAGRANGE	Pt	0%	0%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
4	LAGRANGE	Pv	0%	0%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
4	LAGRANGE	PxB	0%	0%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
4	LAGRANGE	PzA	0%	0%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
4	LAGRANGE	ReB	0%	0%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
4	LAGRANGE	Rb	0%	0%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
4	LAGRANGE	Se	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
4	LAGRANGE	ShA	0%	0%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
4	LAGRANGE	ShB	0%	0%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
4	LAGRANGE	Ud	0%	0%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
4	LAGRANGE	Wa	0%	0%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
4	LAGRANGE	WeA	0%	0%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
4	LAGRANGE	WeB	0%	0%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
4	LAGRANGE	Wi	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages							140		0.00				0.000	0.21	1					0
County Totals			0	0%	0											116	0			
Subbasin Weighted Averages							140													47
Subbasin Totals					1384				0.2226				0.330	0.21	1					

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY ACREAGE	HES	R	WEIGHTED K	K	L	S	WEIGHTED LS	LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
5	Steuben	Ad	0%	0%	0 N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.0	0	M	15	0
5	Steuben	BnA	0%	0%	0 N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
5	Steuben	BoB	0%	0%	0 N	140	0.17	0.00	250	4	0.430	0.000	0.21	1	2.1	0	LS	45	0
5	Steuben	BtA	0%	0%	0 N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
5	Steuben	Bz	0%	0%	0 N	140	0.28	0.00		1	0.170	0.000	0.21	1	1.4	0	L	85	0
5	Steuben	CcA	0%	0%	0 N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
5	Steuben	ChB	0%	0%	0 N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS	20	0
5	Steuben	ChC	0%	0%	0 N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
5	Steuben	Co	0%	0%	0 N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL	45	0
5	Steuben	CrA	0%	0%	0 N	140	0.32	0.00	250	2	0.220	0.000	0.21	1	2.0	0	L	85	0
5	Steuben	Dr	0%	0%	0 N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL	105	0
5	Steuben	Ed	0%	0%	0 N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M	15	0
5	Steuben	Gs	0%	0%	0 N	140	0.17	0.00			0.146	0.000	0.21	1	0.7	0	LS	45	0
5	Steuben	HaA	0%	0%	0 N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
5	Steuben	Hn	0%	0%	0 N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0			0
5	Steuben	Ht	0%	0%	0 N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
5	Steuben	Hw	0%	0%	0 N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
5	Steuben	KoA	0%	0%	0 N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
5	Steuben	KoB	0%	0%	0 N	140	0.28	0.00		4	0.577	0.000	0.21	1	4.6	0	SL	45	0
5	Steuben	MbA	0%	0%	0 N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
5	Steuben	MbB	0%	0%	0 N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
5	Steuben	Mc	0%	0%	0 N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
5	Steuben	MfB	0%	0%	0 N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS	45	0
5	Steuben	MfC	0%	0%	0 N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS	45	0
5	Steuben	Mm	0%	0%	0 N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L	45	0
5	Steuben	Mn	0%	0%	0 N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
5	Steuben	Mx	0%	0%	0 N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
5	Steuben	Mz	0%	0%	0 N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
5	Steuben	OhA	0%	0%	0 N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
5	Steuben	OhB	0%	0%	0 N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
5	Steuben	OhC	0%	0%	0 N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS	45	0
5	Steuben	Pa	0%	0%	0 N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
5	Steuben	Pe	0%	0%	0 N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
5	Steuben	Pg	0%	0%	0 N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
5	Steuben	PnA	0%	0%	0 N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
5	Steuben	PnB	0%	0%	0 N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
5	Steuben	Rb	0%	0%	0 N	140	0.28	0.00	225	1	0.160	0.000	0.21	1	1.3	0	L	45	0
5	Steuben	RxA	0%	0%	0 N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
5	Steuben	RxB	0%	0%	0 N	140	0.24	0.00		4	0.528	0.000	0.21	1	3.6	0	SL	45	0
5	Steuben	Ry	0%	0%	0 N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS	45	0
5	Steuben	Sh	0%	0%	0 N	140	0.37	0.00			0.179	0.000	0.21	1	1.3	0	L	45	0
5	Steuben	We	0%	0%	0 N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
5	Steuben	Wh	0%	0%	0 N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL	105	0
5	Steuben	WsB	0%	0%	0 N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L	45	0
5	Steuben	Wx	0%	0%	0 N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages						140		0.00				0.000	0.21	1					0
County Totals			0%	0%	0										93	0			
5	DEKALB	BaA	0%	100%	0 N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
5	DEKALB	BaB2	4%	100%	37 N	140	0.43	0.02	200	3	0.350	0.016	0.25	1	5.3	200	SiL	105	5
5	DEKALB	Bn	0%	100%	0 N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
5	DEKALB	BoB	8%	100%	66 N	140	0.24	0.02	250	3	0.380	0.030	0.25	1	3.2	212	SL	45	4
5	DEKALB	CrA	9%	100%	75 N	140	0.28	0.02	250	2	0.260	0.023	0.25	1	2.6	193	L	45	4
5	DEKALB	Em	0%	100%	0 N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
5	DEKALB	HaA	0%	100%	0 N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
5	DEKALB	HdB	0%	100%	0 N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
5	DEKALB	Hw	14%	100%	122 N	140	0.01	0.00	200	1	0.120	0.017	0.25	1	0.0	5	M	15	2
5	DEKALB	Ld	0%	100%	0 N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
5	DEKALB	Mc	4%	100%	37 N	140	0.01	0.00	200	1	0.120	0.005	0.25	1	0.0	2	M	15	1
5	DEKALB	MfB	2%	100%	19 N	140	0.17	0.00	150	4	0.470	0.010	0.25	1	2.8	53	LS	45	1

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN COUNTY	% IN ACREAGE	HES	R	K	WEIGHTED K	L	S	WEIGHTED LS	LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
5	DEKALB	OdB	0%	100%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
5	DEKALB	OhB	0%	100%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
5	DEKALB	Pe	7%	100%	56	N	140	0.24	0.02	200	1	0.160	0.011	0.25	1	1.4	77	SiC	105	7
5	DEKALB	RaB	0%	100%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
5	DEKALB	Re	30%	100%	253	N	140	0.28	0.08	400	1	0.130	0.039	0.25	1	1.3	326	L	45	14
5	DEKALB	Se	0%	100%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
5	DEKALB	Ud	11%	100%	94	N	140	0.32	0.04	0	0	0.000	0.000	0.25	1	0.0	0	L	45	5
5	DEKALB	We	10%	100%	84	N	140	0.32	0.03	200	1	0.160	0.016	0.25	1	1.8	153	SiL	105	11
5	DEKALB	Wt	0%	100%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages							140		0.24				0.167	0.25	1					52
County Totals			100%	100%	843											49	1221			
5	LAGRANGE	Ad	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
5	LAGRANGE	Am	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
5	LAGRANGE	BaA	0%	0%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
5	LAGRANGE	BoA	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
5	LAGRANGE	BoB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
5	LAGRANGE	Bp	0%	0%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
5	LAGRANGE	BtA	0%	0%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
5	LAGRANGE	BxA	0%	0%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
5	LAGRANGE	ChB	0%	0%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
5	LAGRANGE	CrA	0%	0%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
5	LAGRANGE	Ed	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
5	LAGRANGE	Gf	0%	0%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
5	LAGRANGE	Gr	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
5	LAGRANGE	HaA	0%	0%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
5	LAGRANGE	HdA	0%	0%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
5	LAGRANGE	HdB	0%	0%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
5	LAGRANGE	Ho	0%	0%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
5	LAGRANGE	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
5	LAGRANGE	Hw	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
5	LAGRANGE	Hx	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
5	LAGRANGE	MbB	0%	0%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
5	LAGRANGE	Mc	0%	0%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
5	LAGRANGE	MeB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
5	LAGRANGE	MeA	0%	0%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
5	LAGRANGE	OsA	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
5	LAGRANGE	OsB	0%	0%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
5	LAGRANGE	OuB	0%	0%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0		45	0
5	LAGRANGE	Pm	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
5	LAGRANGE	PrA	0%	0%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
5	LAGRANGE	Pt	0%	0%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
5	LAGRANGE	Pv	0%	0%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
5	LAGRANGE	PxB	0%	0%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
5	LAGRANGE	PzA	0%	0%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
5	LAGRANGE	RaB	0%	0%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
5	LAGRANGE	Rb	0%	0%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
5	LAGRANGE	Se	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
5	LAGRANGE	ShA	0%	0%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
5	LAGRANGE	ShB	0%	0%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
5	LAGRANGE	Ud	0%	0%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
5	LAGRANGE	Wa	0%	0%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
5	LAGRANGE	WeA	0%	0%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
5	LAGRANGE	WeB	0%	0%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
5	LAGRANGE	Wt	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages							140		0.00				0.000	0.21	1					0
County Totals			0	0%	0											116	0			
Subbasin Weighted Averages							140		0.236				0.167	0.25	1					52
Subbasin Totals																				

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
6	Steuben	Ad	0%	43%	0	N	140		0.00	250	1	0.170	0.000	0.21	1	0.0	0	M	15	0
6	Steuben	BnA	0%	43%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
6	Steuben	BoB	0%	43%	0	N	140	0.17	0.00	250	4	0.430	0.000	0.21	1	2.1	0	LS	45	0
6	Steuben	BtA	0%	43%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
6	Steuben	Bz	19%	43%	149	N	140	0.28	0.05		1	0.170	0.032	0.21	1	1.4	204	L	85	16
6	Steuben	CcA	0%	43%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
6	Steuben	ChB	0%	43%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS	20	0
6	Steuben	ChC	0%	43%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
6	Steuben	Co	0%	43%	0	N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL	45	0
6	Steuben	CrA	15%	43%	117	N	140	0.32	0.05	250	2	0.220	0.033	0.21	1	2.0	237	L	85	13
6	Steuben	Dr	0%	43%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL	105	0
6	Steuben	Ed	0%	43%	0	N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M	15	0
6	Steuben	Gs	0%	43%	0	N	140	0.17	0.00			0.166	0.000	0.21	1	0.7	0	LS	45	0
6	Steuben	HaA	0%	43%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
6	Steuben	Hn	0%	43%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0			0
6	Steuben	Ht	8%	43%	64	N	140	0.01	0.00	225	1	0.160	0.013	0.21	1	0.0	3	M	15	1
6	Steuben	Hw	0%	43%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
6	Steuben	KoA	0%	43%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
6	Steuben	KoB	8%	43%	64	N	140	0.28	0.02		4	0.577	0.047	0.21	1	4.6	296	SL	45	4
6	Steuben	MbA	0%	43%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
6	Steuben	MbB	0%	43%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
6	Steuben	Mc	0%	43%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
6	Steuben	MfB	0%	43%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS	45	0
6	Steuben	MfC	0%	43%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS	45	0
6	Steuben	Mm	0%	43%	0	N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L	45	0
6	Steuben	Mn	0%	43%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
6	Steuben	Mx	0%	43%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
6	Steuben	Nz	0%	43%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
6	Steuben	OhA	0%	43%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
6	Steuben	OhB	0%	43%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
6	Steuben	OhC	0%	43%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS	45	0
6	Steuben	Pa	3%	43%	42	N	140	0.01	0.00			0.110	0.006	0.21	1	0.0	1	M	15	1
6	Steuben	Pe	0%	43%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
6	Steuben	Pg	0%	43%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
6	Steuben	PnA	0%	43%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
6	Steuben	PnB	0%	43%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
6	Steuben	Rb	3%	43%	21	N	140	0.28	0.01	225	1	0.160	0.004	0.21	1	1.3	27	L	45	1
6	Steuben	RxA	0%	43%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
6	Steuben	RxB	0%	43%	0	N	140	0.24	0.00		4	0.528	0.000	0.21	1	3.6	0	SL	45	0
6	Steuben	Ry	0%	43%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS	45	0
6	Steuben	Sh	0%	43%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
6	Steuben	Wa	0%	43%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
6	Steuben	Wh	0%	43%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL	105	0
6	Steuben	WsB	42%	43%	329	N	140	0.28	0.12		4	0.528	0.221	0.21	1	4.3	1401	L	45	19
6	Steuben	Wx	0%	43%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages							140		0.25				0.356	0.21	1					54
County Totals			100%	43%	786											93	2169			
6	DEKALB	BaA	0%	58%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
6	DEKALB	BaB2	2%	58%	24	N	140	0.43	0.01	200	3	0.350	0.008	0.25	1	5.3	126	SiL	105	2
6	DEKALB	Bn	2%	58%	24	N	140	0.28	0.01	400	1	0.130	0.003	0.25	1	1.3	30	SiC	110	2
6	DEKALB	BoB	16%	58%	165	N	140	0.24	0.04	250	3	0.380	0.059	0.25	1	3.2	535	SL	45	7
6	DEKALB	CrA	3%	58%	35	N	140	0.28	0.01	250	2	0.260	0.009	0.25	1	2.6	91	L	45	2
6	DEKALB	Em	0%	58%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
6	DEKALB	HaA	0%	58%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
6	DEKALB	HdB	7%	58%	71	N	140	0.24	0.02	150	6	0.830	0.055	0.25	1	7.1	501	FSL	30	2
6	DEKALB	Hw	12%	58%	130	N	140	0.01	0.00	200	1	0.120	0.015	0.25	1	0.0	6	M	15	2
6	DEKALB	Ld	0%	58%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
6	DEKALB	Mc	16%	58%	165	N	140	0.01	0.00	200	1	0.120	0.019	0.25	1	0.0	7	M	15	2
6	DEKALB	MfB	2%	58%	24	N	140	0.17	0.00	150	4	0.470	0.010	0.25	1	2.8	67	LS	45	1

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
6	DEKALB	OdB	0%	58%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
6	DEKALB	OhB	4%	58%	47	N	140	0.24	0.01	250	3	0.380	0.017	0.25	1	3.2	153	SL	45	2
6	DEKALB	Pe	13%	58%	162	N	140	0.24	0.03	200	1	0.160	0.021	0.25	1	1.4	193	SiC	105	14
6	DEKALB	RaB	6%	58%	59	N	140	0.24	0.01	200	4	0.530	0.029	0.25	1	4.5	266	SL	45	3
6	DEKALB	Re	7%	58%	71	N	140	0.28	0.02	400	1	0.130	0.009	0.25	1	1.3	91	L	45	3
6	DEKALB	Se	3%	58%	35	N	140	0.24	0.01	200	1	0.160	0.005	0.25	1	1.4	48	SL	45	2
6	DEKALB	Ud	2%	58%	24	N	140	0.32	0.01		0		0.000	0.25	1	0.0	0	L	45	1
6	DEKALB	Wa	2%	58%	24	N	140	0.32	0.01	200	1	0.160	0.004	0.25	1	1.8	43	SiL	105	2
6	DEKALB	Wt	2%	58%	24	N	140	0.37	0.01	250	1	0.170	0.004	0.25	1	2.2	53	SiL	105	2
County Weighted Averages							140		0.19				0.267	0.25	1					49
County Totals			100%	58%	1063											49	2210			
6	LAGRANGE	Ad	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
6	LAGRANGE	Am	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
6	LAGRANGE	BaA	0%	0%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
6	LAGRANGE	BoA	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
6	LAGRANGE	BoB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
6	LAGRANGE	Bp	0%	0%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
6	LAGRANGE	BtA	0%	0%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
6	LAGRANGE	BxA	0%	0%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
6	LAGRANGE	ChB	0%	0%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
6	LAGRANGE	CrA	0%	0%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
6	LAGRANGE	Ed	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
6	LAGRANGE	Gf	0%	0%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
6	LAGRANGE	Gr	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
6	LAGRANGE	HaA	0%	0%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
6	LAGRANGE	HdA	0%	0%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
6	LAGRANGE	HdB	0%	0%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
6	LAGRANGE	Ho	0%	0%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
6	LAGRANGE	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
6	LAGRANGE	Hw	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
6	LAGRANGE	Hx	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
6	LAGRANGE	MbB	0%	0%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
6	LAGRANGE	Mc	0%	0%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
6	LAGRANGE	MeB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
6	LAGRANGE	NaA	0%	0%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
6	LAGRANGE	OsA	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
6	LAGRANGE	OsB	0%	0%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
6	LAGRANGE	OuB	0%	0%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
6	LAGRANGE	Pm	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
6	LAGRANGE	PrA	0%	0%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
6	LAGRANGE	Pt	0%	0%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
6	LAGRANGE	Pv	0%	0%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
6	LAGRANGE	PxB	0%	0%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
6	LAGRANGE	PzA	0%	0%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
6	LAGRANGE	RaB	0%	0%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
6	LAGRANGE	Rb	0%	0%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
6	LAGRANGE	Se	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
6	LAGRANGE	ShA	0%	0%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
6	LAGRANGE	ShB	0%	0%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
6	LAGRANGE	Ud	0%	0%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
6	LAGRANGE	Wa	0%	0%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
6	LAGRANGE	WeA	0%	0%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
6	LAGRANGE	WeB	0%	0%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
6	LAGRANGE	Wt	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages							140		0.00				0.000	0.21	1					0
County Totals			0	0%	0											116	0			
Subbasin Weighted Averages							140		0.22				0.305	0.23	1					51
Subbasin Totals					1849															

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
7	Steuben	Ad	8%	100%	99	N	140	0.01	0.00	250	1	0.170	0.013	0.21	1	0.0	5	M	15	1
7	Steuben	BnA	0%	100%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
7	Steuben	BoB	18%	100%	237	N	140	0.17	0.03	250	4	0.430	0.078	0.21	1	2.1	499	LS	45	8
7	Steuben	BtA	0%	100%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
7	Steuben	Bz	12%	100%	158	N	140	0.28	0.03		1	0.170	0.020	0.21	1	1.4	217	L	85	10
7	Steuben	CcA	0%	100%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
7	Steuben	ChB	0%	100%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS	20	0
7	Steuben	ChC	0%	100%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
7	Steuben	Co	0%	100%	0	N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL	45	0
7	Steuben	CrA	6%	100%	79	N	140	0.32	0.02	250	2	0.220	0.013	0.21	1	2.0	160	L	85	5
7	Steuben	Dr	0%	100%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL	105	0
7	Steuben	Ed	12%	100%	158	N	140	0.43	0.05	200	1	0.120	0.014	0.21	1	1.5	235	M	15	2
7	Steuben	Gs	0%	100%	0	N	140	0.17	0.00			0.146	0.000	0.21	1	0.7	0	LS	45	0
7	Steuben	HaA	0%	100%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
7	Steuben	Hn	0%	100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0			0
7	Steuben	Ht	11%	100%	148	N	140	0.01	0.00	225	1	0.160	0.018	0.21	1	0.0	7	M	15	2
7	Steuben	Hw	0%	100%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
7	Steuben	KoA	0%	100%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
7	Steuben	KoB	0%	100%	0	N	140	0.28	0.00		4	0.577	0.000	0.21	1	4.6	0	SL	45	0
7	Steuben	MbA	0%	100%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
7	Steuben	MbB	0%	100%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
7	Steuben	Mc	0%	100%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
7	Steuben	MfB	2%	100%	20	N	140	0.17	0.00	150	4	0.390	0.006	0.21	1	1.9	38	LS	45	1
7	Steuben	MfC	2%	100%	30	N	140	0.17	0.00	100	9	1.170	0.026	0.21	1	5.7	170	LS	45	1
7	Steuben	Mm	6%	100%	79	N	140	0.28	0.02			0.170	0.010	0.21	1	1.4	108	L	45	3
7	Steuben	Mn	0%	100%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
7	Steuben	Mx	0%	100%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
7	Steuben	Mz	0%	100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
7	Steuben	OhA	0%	100%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
7	Steuben	OhB	0%	100%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
7	Steuben	OhC	0%	100%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS	45	0
7	Steuben	Pa	0%	100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
7	Steuben	Pe	0%	100%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
7	Steuben	Pg	0%	100%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
7	Steuben	PnA	0%	100%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
7	Steuben	PnB	0%	100%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
7	Steuben	Rb	8%	100%	109	N	140	0.28	0.02	225	1	0.160	0.013	0.21	1	1.3	140	L	45	4
7	Steuben	RxA	0%	100%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
7	Steuben	RxB	6%	100%	79	N	140	0.24	0.01		4	0.528	0.032	0.21	1	3.6	288	SL	45	3
7	Steuben	Ry	0%	100%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS	45	0
7	Steuben	Sh	0%	100%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
7	Steuben	Wa	0%	100%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
7	Steuben	Wh	3%	100%	40	N	140	0.37	0.01			0.159	0.005	0.21	1	1.7	67	SiL	105	3
7	Steuben	WsB	6%	100%	79	N	140	0.28	0.02		4	0.528	0.032	0.21	1	4.3	336	L	45	3
7	Steuben	Wx	0%	100%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages							140		0.23				0.281	0.21	1					45
County Totals			100%	100%	1314											93	2269			
7	DEKALB	BaA	0%	0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
7	DEKALB	BaB2	0%	0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL	105	0
7	DEKALB	Bn	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
7	DEKALB	BoB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
7	DEKALB	CrA	0%	0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L	45	0
7	DEKALB	Em	0%	0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
7	DEKALB	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
7	DEKALB	HdB	0%	0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
7	DEKALB	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
7	DEKALB	Ld	0%	0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
7	DEKALB	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
7	DEKALB	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	% IN AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
7	DEKALB	OdB	0%	0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
7	DEKALB	OhB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
7	DEKALB	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC	105	0
7	DEKALB	RaB	0%	0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
7	DEKALB	Re	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
7	DEKALB	Se	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
7	DEKALB	Ud	0%	0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
7	DEKALB	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL	105	0
7	DEKALB	Wt	0%	0%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages							140		0.00				0.000	0.25	1					0
County Totals			0%	0%	0											49	0			
7	LAGRANGE	Ad	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
7	LAGRANGE	Am	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
7	LAGRANGE	BaA	0%	0%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
7	LAGRANGE	BoA	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
7	LAGRANGE	BoB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
7	LAGRANGE	Bp	0%	0%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
7	LAGRANGE	BtA	0%	0%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
7	LAGRANGE	BxA	0%	0%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
7	LAGRANGE	ChB	0%	0%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
7	LAGRANGE	CrA	0%	0%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
7	LAGRANGE	Ed	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
7	LAGRANGE	Gf	0%	0%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
7	LAGRANGE	Gr	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
7	LAGRANGE	HaA	0%	0%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
7	LAGRANGE	HdA	0%	0%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
7	LAGRANGE	HdB	0%	0%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
7	LAGRANGE	Ho	0%	0%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
7	LAGRANGE	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
7	LAGRANGE	Hw	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
7	LAGRANGE	Hx	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
7	LAGRANGE	MbB	0%	0%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
7	LAGRANGE	Mc	0%	0%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
7	LAGRANGE	MeB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
7	LAGRANGE	NaA	0%	0%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
7	LAGRANGE	OsA	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
7	LAGRANGE	OsB	0%	0%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
7	LAGRANGE	OuB	0%	0%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
7	LAGRANGE	Pm	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
7	LAGRANGE	PrA	0%	0%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
7	LAGRANGE	Pt	0%	0%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
7	LAGRANGE	Pv	0%	0%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
7	LAGRANGE	PxB	0%	0%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
7	LAGRANGE	PzA	0%	0%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
7	LAGRANGE	RaB	0%	0%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
7	LAGRANGE	Rb	0%	0%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
7	LAGRANGE	Se	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
7	LAGRANGE	ShA	0%	0%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
7	LAGRANGE	ShB	0%	0%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
7	LAGRANGE	Ud	0%	0%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
7	LAGRANGE	Wa	0%	0%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
7	LAGRANGE	WeA	0%	0%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
7	LAGRANGE	WeB	0%	0%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
7	LAGRANGE	Wt	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages							140		0.00				0.000	0.21	1					0
County Totals			0	0%	0											116	0			
Subbasin Weighted Averages							140		0.226				0.281	0.21	1					45
Subbasin Totals					1314															

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN COUNTY	% IN ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
8	Steuben	Ad	3%	94%	19	N	140	0.01	0.00	250	1	0.170	0.004	0.21	1	0.0	1	M	15	0
8	Steuben	BnA	0%	94%	0	N	140	0.43	0.00	2	2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
8	Steuben	BoB	10%	94%	73	N	140	0.17	0.02	250	4	0.430	0.042	0.21	1	2.1	154	LS	45	4
8	Steuben	BtA	0%	94%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
8	Steuben	Bz	0%	94%	0	N	140	0.28	0.00		1	0.170	0.000	0.21	1	1.4	0	L	85	0
8	Steuben	CcA	0%	94%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
8	Steuben	ChB	17%	94%	127	N	140	0.17	0.03	225	4	0.430	0.073	0.21	1	2.1	266	FS	20	3
8	Steuben	ChC	0%	94%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
8	Steuben	Co	0%	94%	0	N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL	45	0
8	Steuben	CrA	0%	94%	0	N	140	0.32	0.00	250	2	0.220	0.000	0.21	1	2.0	0	L	85	0
8	Steuben	Dr	0%	94%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL	105	0
8	Steuben	Ed	0%	94%	0	N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M	15	0
8	Steuben	Gs	2%	94%	15	N	140	0.17	0.00			0.146	0.003	0.21	1	0.7	10	LS	45	1
8	Steuben	HaA	0%	94%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
8	Steuben	Hn	0%	94%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0			0
8	Steuben	Ht	0%	94%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
8	Steuben	Hw	19%	94%	141	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	5	M	15	3
8	Steuben	KoA	13%	94%	97	N	140	0.28	0.04		1	0.195	0.025	0.21	1	1.6	153	SL	45	6
8	Steuben	KoB	8%	94%	58	N	140	0.28	0.02		4	0.577	0.045	0.21	1	4.6	272	SL	45	4
8	Steuben	MbA	0%	94%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
8	Steuben	MbB	0%	94%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
8	Steuben	Mc	16%	94%	122	N	140	0.01	0.00	200	1	0.120	0.019	0.21	1	0.0	4	M	15	2
8	Steuben	MfB	0%	94%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS	45	0
8	Steuben	MfC	0%	94%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS	45	0
8	Steuben	Mm	6%	94%	44	N	140	0.28	0.02			0.170	0.010	0.21	1	1.4	60	L	45	3
8	Steuben	Mn	0%	94%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
8	Steuben	Mx	0%	94%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
8	Steuben	Mz	0%	94%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
8	Steuben	OhA	0%	94%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
8	Steuben	OhB	0%	94%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
8	Steuben	OhC	0%	94%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS	45	0
8	Steuben	Pa	0%	94%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
8	Steuben	Pe	0%	94%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
8	Steuben	Pg	0%	94%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
8	Steuben	PnA	0%	94%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
8	Steuben	PnB	0%	94%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
8	Steuben	Rb	0%	94%	0	N	140	0.28	0.00	225	1	0.163	0.000	0.21	1	1.3	0	L	45	0
8	Steuben	RxA	0%	94%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
8	Steuben	RxB	3%	94%	19	N	140	0.24	0.01		4	0.528	0.014	0.21	1	3.6	71	SL	45	1
8	Steuben	Ry	5%	94%	34	N	140	0.17	0.01			0.195	0.009	0.21	1	1.0	32	LS	45	2
8	Steuben	Sh	0%	94%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
8	Steuben	Wa	0%	94%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
8	Steuben	Wh	0%	94%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL	105	0
8	Steuben	WsB	0%	94%	0	N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L	45	0
8	Steuben	Wx	0%	94%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages							140		0.14				0.267	0.21	1					29
County Totals			100%	94%	749											93	1028			
8	DEKALB	BaA	0%	0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
8	DEKALB	BaB2	0%	0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL	105	0
8	DEKALB	Bn	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
8	DEKALB	BoB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
8	DEKALB	CrA	0%	0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L	45	0
8	DEKALB	Em	0%	0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
8	DEKALB	HaA	0%	0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
8	DEKALB	HdB	0%	0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
8	DEKALB	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
8	DEKALB	Ld	0%	0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
8	DEKALB	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
8	DEKALB	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY ACREAGE	MES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P	WEIGHTED UAL
8	DEKALB	OdB	0% 0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
8	DEKALB	OhB	0% 0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
8	DEKALB	Pe	0% 0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SIC	105	0
8	DEKALB	RaB	0% 0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
8	DEKALB	Re	0% 0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
8	DEKALB	Se	0% 0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
8	DEKALB	Ud	0% 0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
8	DEKALB	Wa	0% 0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SIL	105	0
8	DEKALB	Wt	0% 0%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SIL	105	0
County Weighted Averages						140		0.00				0.000	0.25	1					0
County Totals			0% 0%	0											49	0			
8	LAGRANGE	Ad	0% 6%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
8	LAGRANGE	Am	0% 6%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
8	LAGRANGE	BaA	0% 6%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SIL	105	0
8	LAGRANGE	BoA	35% 6%	17	N	140	0.17	0.06	175	1	0.150	0.053	0.21	1	0.8	13	LS	45	16
8	LAGRANGE	BoB	50% 6%	25	N	140	0.17	0.09	175	4	0.500	0.250	0.21	1	2.5	63	LS	45	23
8	LAGRANGE	Bp	10% 6%	5	N	140	0.20	0.02	200	1	0.160	0.016	0.21	1	1.0	5	SL	45	5
8	LAGRANGE	BtA	0% 6%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
8	LAGRANGE	BxA	0% 6%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
8	LAGRANGE	ChB	5% 6%	2	N	140	0.15	0.01	225	4	0.450	0.023	0.21	1	2.0	5	FS	20	1
8	LAGRANGE	CrA	0% 6%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
8	LAGRANGE	Ed	0% 6%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
8	LAGRANGE	Gf	0% 6%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
8	LAGRANGE	Gr	0% 6%	0	N	140	0.15	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
8	LAGRANGE	HaA	0% 6%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
8	LAGRANGE	HdA	0% 6%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
8	LAGRANGE	HdB	0% 6%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
8	LAGRANGE	Ho	0% 6%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
8	LAGRANGE	Ht	0% 6%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
8	LAGRANGE	Hw	0% 6%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
8	LAGRANGE	Hx	0% 6%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
8	LAGRANGE	MbB	0% 6%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
8	LAGRANGE	Mc	0% 6%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
8	LAGRANGE	MeB	0% 6%	0	N	140	0.17	0.00	250	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
8	LAGRANGE	NaA	0% 6%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SIL	105	0
8	LAGRANGE	OsA	0% 6%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
8	LAGRANGE	OsB	0% 6%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
8	LAGRANGE	OuB	0% 6%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
8	LAGRANGE	Pm	0% 6%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
8	LAGRANGE	PrA	0% 6%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
8	LAGRANGE	Pt	0% 6%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SICL	110	0
8	LAGRANGE	Pv	0% 6%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
8	LAGRANGE	PxB	0% 6%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
8	LAGRANGE	PzA	0% 6%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
8	LAGRANGE	RaB	0% 6%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
8	LAGRANGE	Rb	0% 6%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
8	LAGRANGE	Se	0% 6%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
8	LAGRANGE	ShA	0% 6%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
8	LAGRANGE	ShB	0% 6%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
8	LAGRANGE	Ud	0% 6%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
8	LAGRANGE	Wa	0% 6%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SIL	105	0
8	LAGRANGE	WeA	0% 6%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
8	LAGRANGE	WeB	0% 6%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
8	LAGRANGE	Wi	0% 6%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages						140		0.17				0.341	0.21	1					44
County Totals			100% 6%	50											116	86			
Subbasin Weighted Averages						140		0.143				0.271	0.21	1					30
Subbasin Totals				799															

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
9	Steuben	Ad	8% 100%	241	N	140	0.01	0.00	250	1	0.170	0.014	0.21	1	0.0	12	M	15	1
9	Steuben	BnA	0% 100%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
9	Steuben	BoB	16% 100%	465	N	140	0.17	0.03	250	4	0.430	0.069	0.21	1	2.1	977	LS	45	7
9	Steuben	BtA	0% 100%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
9	Steuben	Bz	5% 100%	155	N	140	0.28	0.02		1	0.170	0.009	0.21	1	1.4	212	L	85	5
9	Steuben	CcA	0% 100%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
9	Steuben	ChB	1% 100%	34	N	140	0.17	0.00	225	4	0.430	0.005	0.21	1	2.1	72	FS	20	0
9	Steuben	ChC	0% 100%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
9	Steuben	Co	1% 100%	34	N	140	0.28	0.00		1	0.126	0.002	0.21	1	1.0	35	SL	45	1
9	Steuben	CrA	7% 100%	189	N	140	0.32	0.02	250	2	0.220	0.014	0.21	1	2.0	384	L	85	6
9	Steuben	Dr	0% 100%	0	N	140	0.43	0.00		1	0.166	0.000	0.21	1	1.8	0	SiL	105	0
9	Steuben	Ed	1% 100%	17	N	140	0.43	0.00	200	1	0.120	0.001	0.21	1	1.5	26	M	15	0
9	Steuben	Gs	1% 100%	17	N	140	0.17	0.00			0.146	0.001	0.21	1	0.7	12	LS	45	0
9	Steuben	HaA	0% 100%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
9	Steuben	Hn	1% 100%	34	N	140	0.01	0.00			0.110	0.001	0.21	1	0.0	1			0
9	Steuben	Ht	13% 100%	361	N	140	0.01	0.00	225	1	0.160	0.020	0.21	1	0.0	17	M	15	2
9	Steuben	Hw	5% 100%	138	N	140	0.01	0.00	200	1	0.120	0.006	0.21	1	0.0	5	M	15	1
9	Steuben	KoA	0% 100%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
9	Steuben	KoB	2% 100%	69	N	140	0.28	0.01		4	0.577	0.014	0.21	1	4.6	320	SL	45	1
9	Steuben	MbA	0% 100%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
9	Steuben	MbB	0% 100%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
9	Steuben	Mc	0% 100%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
9	Steuben	MfB	1% 100%	17	N	140	0.17	0.00	150	4	0.390	0.002	0.21	1	1.9	33	LS	45	0
9	Steuben	MfC	1% 100%	17	N	140	0.17	0.00	100	9	1.170	0.007	0.21	1	5.7	99	LS	45	0
9	Steuben	Mm	3% 100%	86	N	140	0.28	0.01			0.170	0.005	0.21	1	1.4	118	L	45	1
9	Steuben	Mn	0% 100%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
9	Steuben	Mx	0% 100%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
9	Steuben	Mz	0% 100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
9	Steuben	OhA	0% 100%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
9	Steuben	OhB	0% 100%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
9	Steuben	OhC	0% 100%	0	N	140	0.24	0.00		9	1.559	0.000	0.21	1	11.5	0	LS	45	0
9	Steuben	Pa	1% 100%	17	N	140	0.01	0.00			0.110	0.001	0.21	1	0.0	1	M	15	0
9	Steuben	Pe	0% 100%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
9	Steuben	Pg	0% 100%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
9	Steuben	PnA	0% 100%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
9	Steuben	PnB	0% 100%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
9	Steuben	Rb	6% 100%	172	N	140	0.28	0.02	225	1	0.160	0.010	0.21	1	1.3	222	L	45	3
9	Steuben	RxA	0% 100%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
9	Steuben	RxB	11% 100%	310	N	140	0.24	0.03		4	0.528	0.057	0.21	1	3.6	1130	SL	45	5
9	Steuben	Ry	0% 100%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS	45	0
9	Steuben	Sh	0% 100%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.3	0	L	45	0
9	Steuben	Wa	1% 100%	17	N	140	0.32	0.00	200	1	0.160	0.001	0.21	1	1.5	25	SiL	105	1
9	Steuben	Wh	4% 100%	120	N	140	0.37	0.02			0.159	0.007	0.21	1	1.7	204	SiL	105	4
9	Steuben	WsB	13% 100%	379	N	140	0.28	0.04		4	0.528	0.069	0.21	1	4.3	1611	L	45	6
9	Steuben	Wx	0% 100%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages						140		0.19				0.314	0.21	1					44
County Totals			100% 100%	2891										1		93		5514	
9	DEKALB	BaA	0% 0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
9	DEKALB	BaB2	0% 0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL	105	0
9	DEKALB	Bn	0% 0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
9	DEKALB	BoB	0% 0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
9	DEKALB	CrA	0% 0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L	45	0
9	DEKALB	Em	0% 0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
9	DEKALB	HaA	0% 0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
9	DEKALB	HdB	0% 0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
9	DEKALB	Hw	0% 0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
9	DEKALB	Ld	0% 0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
9	DEKALB	Mc	0% 0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
9	DEKALB	MfB	0% 0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
9	DEKALB	OdB	0%	0%	0 N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
9	DEKALB	OhB	0%	0%	0 N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
9	DEKALB	Pe	0%	0%	0 N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC	105	0
9	DEKALB	RaB	0%	0%	0 N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
9	DEKALB	Re	0%	0%	0 N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
9	DEKALB	Se	0%	0%	0 N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
9	DEKALB	Ud	0%	0%	0 N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
9	DEKALB	Wa	0%	0%	0 N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL	105	0
9	DEKALB	Wt	0%	0%	0 N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages						140		0.00				0.000	0.25	1					0
County Totals			0%	0%	0										49	0			
9	LAGRANGE	Ad	0%	0%	0 N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
9	LAGRANGE	Am	0%	0%	0 N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
9	LAGRANGE	BaA	0%	0%	0 N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
9	LAGRANGE	BoA	0%	0%	0 N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
9	LAGRANGE	BoB	0%	0%	0 N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
9	LAGRANGE	Bp	0%	0%	0 N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
9	LAGRANGE	BtA	0%	0%	0 N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
9	LAGRANGE	BxA	0%	0%	0 N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
9	LAGRANGE	ChB	0%	0%	0 N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
9	LAGRANGE	CrA	0%	0%	0 N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
9	LAGRANGE	Ed	0%	0%	0 N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
9	LAGRANGE	Gf	0%	0%	0 N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
9	LAGRANGE	Gr	0%	0%	0 N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
9	LAGRANGE	HaA	0%	0%	0 N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
9	LAGRANGE	HdA	0%	0%	0 N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
9	LAGRANGE	HdB	0%	0%	0 N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
9	LAGRANGE	Ho	0%	0%	0 N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
9	LAGRANGE	Ht	0%	0%	0 N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
9	LAGRANGE	Hw	0%	0%	0 N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
9	LAGRANGE	Hx	0%	0%	0 N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
9	LAGRANGE	MbB	0%	0%	0 N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
9	LAGRANGE	Mc	0%	0%	0 N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
9	LAGRANGE	MeB	0%	0%	0 N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
9	LAGRANGE	NaA	0%	0%	0 N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
9	LAGRANGE	OsA	0%	0%	0 N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
9	LAGRANGE	OsB	0%	0%	0 N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
9	LAGRANGE	OuB	0%	0%	0 N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2				0
9	LAGRANGE	Pm	0%	0%	0 N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
9	LAGRANGE	PrA	0%	0%	0 N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
9	LAGRANGE	Pt	0%	0%	0 N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
9	LAGRANGE	Pv	0%	0%	0 N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
9	LAGRANGE	PxB	0%	0%	0 N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
9	LAGRANGE	PzA	0%	0%	0 N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
9	LAGRANGE	RaB	0%	0%	0 N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
9	LAGRANGE	Rb	0%	0%	0 N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
9	LAGRANGE	Se	0%	0%	0 N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
9	LAGRANGE	ShA	0%	0%	0 N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
9	LAGRANGE	ShB	0%	0%	0 N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
9	LAGRANGE	Ud	0%	0%	0 N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
9	LAGRANGE	Wa	0%	0%	0 N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
9	LAGRANGE	WeA	0%	0%	0 N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
9	LAGRANGE	WeB	0%	0%	0 N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
9	LAGRANGE	Wt	0%	0%	0 N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages						140		0.00				0.000	0.21	1					0
County Totals			0	0%	0										116	0			
Subbasin Weighted Averages						140		0.188				0.314	0.21	1					44
Subbasin Totals					2891														

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
10	Steuben	Ad	19% 100%	50	N	140	0.01	0.00	250	1	0.170	0.032	0.21	1	0.0	2	M	15	3
10	Steuben	BnA	0% 100%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
10	Steuben	BoB	14% 100%	37	N	140	0.17	0.02	250	4	0.430	0.059	0.21	1	2.1	77	LS	45	6
10	Steuben	BtA	0% 100%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
10	Steuben	Bz	1% 100%	3	N	140	0.28	0.00		1	0.170	0.002	0.21	1	1.4	5	L	85	1
10	Steuben	CcA	0% 100%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
10	Steuben	ChB	0% 100%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS	20	0
10	Steuben	ChC	0% 100%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
10	Steuben	Co	3% 100%	7	N	140	0.28	0.01		1	0.126	0.003	0.21	1	1.0	7	SL	45	1
10	Steuben	CrA	0% 100%	0	N	140	0.32	0.00	250	2	0.220	0.000	0.21	1	2.0	0	L	85	0
10	Steuben	Dr	0% 100%	0	N	140	0.43	0.00		1	0.166	0.000	0.21	1	1.8	0	SiL	105	0
10	Steuben	Ed	0% 100%	0	N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M	15	0
10	Steuben	Gs	0% 100%	0	N	140	0.17	0.00			0.166	0.000	0.21	1	0.7	0	LS	45	0
10	Steuben	HaA	0% 100%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
10	Steuben	Hn	0% 100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0			0
10	Steuben	Ht	45% 100%	120	N	140	0.01	0.00	225	1	0.160	0.072	0.21	1	0.0	6	M	15	7
10	Steuben	Hw	8% 100%	20	N	140	0.01	0.00	200	1	0.120	0.009	0.21	1	0.0	1	M	15	1
10	Steuben	KoA	0% 100%	0	N	140	0.28	0.00		1	0.195	0.000	0.21	1	1.6	0	SL	45	0
10	Steuben	KoB	0% 100%	0	N	140	0.28	0.00		4	0.577	0.000	0.21	1	4.6	0	SL	45	0
10	Steuben	MbA	0% 100%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
10	Steuben	MbB	0% 100%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
10	Steuben	Mc	0% 100%	0	N	140	0.01	0.00	200	4	0.120	0.000	0.21	1	0.0	0	M	15	0
10	Steuben	MfB	0% 100%	0	N	140	0.17	0.00	150	4	0.390	0.000	0.21	1	1.9	0	LS	45	0
10	Steuben	MfC	0% 100%	0	N	140	0.17	0.00	100	9	1.170	0.000	0.21	1	5.7	0	LS	45	0
10	Steuben	Mm	0% 100%	0	N	140	0.28	0.00			0.170	0.000	0.21	1	1.4	0	L	45	0
10	Steuben	Mn	0% 100%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
10	Steuben	Mx	0% 100%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
10	Steuben	Mz	0% 100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
10	Steuben	OhA	0% 100%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
10	Steuben	OhB	8% 100%	20	N	140	0.24	0.02	250	4	0.580	0.044	0.21	1	4.0	80	LS	45	3
10	Steuben	OhC	4% 100%	10	N	140	0.24	0.01		9	1.659	0.062	0.21	1	11.5	114	LS	45	2
10	Steuben	Pa	0% 100%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
10	Steuben	Pe	0% 100%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
10	Steuben	Pg	0% 100%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
10	Steuben	PnA	0% 100%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
10	Steuben	PnB	0% 100%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
10	Steuben	Rb	0% 100%	0	N	140	0.28	0.00	225	1	0.160	0.000	0.21	1	1.3	0	L	45	0
10	Steuben	RxA	0% 100%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
10	Steuben	RxB	0% 100%	0	N	140	0.24	0.00		4	0.528	0.000	0.21	1	3.6	0	SL	45	0
10	Steuben	Ry	0% 100%	0	N	140	0.17	0.00			0.195	0.000	0.21	1	1.0	0	LS	45	0
10	Steuben	Sh	0% 100%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
10	Steuben	Wa	0% 100%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
10	Steuben	Wh	0% 100%	0	N	140	0.37	0.00			0.159	0.000	0.21	1	1.7	0	SiL	105	0
10	Steuben	WsB	0% 100%	0	N	140	0.28	0.00		4	0.528	0.000	0.21	1	4.3	0	L	45	0
10	Steuben	Wx	0% 100%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages						140		0.07				0.283	0.21	1					24
County Totals			100% 100%	266											93	291			
10	DEKALB	BeA	0% 0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
10	DEKALB	BeB2	0% 0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL	105	0
10	DEKALB	Bn	0% 0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
10	DEKALB	BoB	0% 0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
10	DEKALB	CrA	0% 0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L	45	0
10	DEKALB	Em	0% 0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
10	DEKALB	HaA	0% 0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
10	DEKALB	HdB	0% 0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
10	DEKALB	Hw	0% 0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
10	DEKALB	Ld	0% 0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
10	DEKALB	Mc	0% 0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
10	DEKALB	MfB	0% 0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
10	DEKALB	OdB	0%	0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
10	DEKALB	OhB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
10	DEKALB	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC	105	0
10	DEKALB	RaB	0%	0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
10	DEKALB	Re	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
10	DEKALB	Se	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
10	DEKALB	Ud	0%	0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
10	DEKALB	We	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL	105	0
10	DEKALB	Wt	0%	0%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages							140		0.00				0.000	0.25	1					0
County Totals			0%	0%	0											49	0			
10	LAGRANGE	Ad	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
10	LAGRANGE	Am	0%	0%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
10	LAGRANGE	BaA	0%	0%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
10	LAGRANGE	BoA	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
10	LAGRANGE	BoB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
10	LAGRANGE	Bp	0%	0%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
10	LAGRANGE	BtA	0%	0%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
10	LAGRANGE	BxA	0%	0%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
10	LAGRANGE	ChB	0%	0%	0	N	140	0.15	0.00	225	4	0.450	0.000	0.21	1	2.0	0	FS	20	0
10	LAGRANGE	CrA	0%	0%	0	N	140	0.28	0.00	225	2	0.210	0.000	0.21	1	1.8	0	L	45	0
10	LAGRANGE	Ed	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
10	LAGRANGE	Gf	0%	0%	0	N	140	0.20	0.00	175	1	0.150	0.000	0.21	1	0.9	0	SL	45	0
10	LAGRANGE	Gr	0%	0%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
10	LAGRANGE	HaA	0%	0%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
10	LAGRANGE	HdA	0%	0%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
10	LAGRANGE	HdB	0%	0%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
10	LAGRANGE	Ho	0%	0%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
10	LAGRANGE	Ht	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
10	LAGRANGE	Hw	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
10	LAGRANGE	Hx	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
10	LAGRANGE	MbB	0%	0%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
10	LAGRANGE	Mc	0%	0%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
10	LAGRANGE	MeB	0%	0%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
10	LAGRANGE	NaA	0%	0%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
10	LAGRANGE	OsA	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
10	LAGRANGE	OsB	0%	0%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
10	LAGRANGE	OuB	0%	0%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
10	LAGRANGE	Pm	0%	0%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
10	LAGRANGE	PrA	0%	0%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
10	LAGRANGE	Pt	0%	0%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
10	LAGRANGE	Pv	0%	0%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
10	LAGRANGE	PxB	0%	0%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
10	LAGRANGE	PzA	0%	0%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
10	LAGRANGE	RaB	0%	0%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
10	LAGRANGE	Rb	0%	0%	0	N	140	0.32	0.00	225	1	0.160	0.000	0.21	1	1.5	0	L	45	0
10	LAGRANGE	Se	0%	0%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
10	LAGRANGE	ShA	0%	0%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
10	LAGRANGE	ShB	0%	0%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
10	LAGRANGE	Ud	0%	0%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
10	LAGRANGE	We	0%	0%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
10	LAGRANGE	WeA	0%	0%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
10	LAGRANGE	WeB	0%	0%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
10	LAGRANGE	Wi	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages							140		0.00				0.000	0.21	1					0
County Totals			0	0%	0											116	0			
Subbasin Weighted Averages							140		0.07				0.283	0.21	1					24
Subbasin Totals					266											258	291			

SUB BASIN	COUNTY	SOIL SYMBOL	AVERAGE % IN % AREA	COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	LS	WEIGHTED LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
11	Steuben	Ad	0%	75%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.0	0	M	15	0
11	Steuben	BnA	0%	75%	0	N	140	0.43	0.00		2	0.247	0.000	0.21	1	3.1	0	SiL	105	0
11	Steuben	BoB	0%	75%	0	N	140	0.17	0.00	250	4	0.430	0.000	0.21	1	2.1	0	LS	45	0
11	Steuben	BtA	0%	75%	0	N	140	0.17	0.00	200	1	0.160	0.000	0.21	1	0.8	0	LS	45	0
11	Steuben	Bz	17%	75%	254	N	140	0.28	0.05		1	0.170	0.029	0.21	1	1.4	348	L	85	14
11	Steuben	CcA	0%	75%	0	N	140	0.20	0.00		1	0.195	0.000	0.21	1	1.1	0	SL	45	0
11	Steuben	ChB	0%	75%	0	N	140	0.17	0.00	225	4	0.430	0.000	0.21	1	2.1	0	FS	20	0
11	Steuben	ChC	0%	75%	0	N	140	0.17	0.00		9	1.173	0.000	0.21	1	5.7	0	FS	20	0
11	Steuben	Co	0%	75%	0	N	140	0.28	0.00		1	0.126	0.000	0.21	1	1.0	0	SL	45	0
11	Steuben	CrA	1%	75%	18	N	140	0.32	0.00	250	2	0.220	0.003	0.21	1	2.0	37	L	85	1
11	Steuben	Dr	0%	75%	0	N	140	0.43	0.00		1	0.146	0.000	0.21	1	1.8	0	SiL	105	0
11	Steuben	Ed	0%	75%	0	N	140	0.43	0.00	200	1	0.120	0.000	0.21	1	1.5	0	M	15	0
11	Steuben	Gs	0%	75%	0	N	140	0.17	0.00			0.146	0.000	0.21	1	0.7	0	LS	45	0
11	Steuben	HeA	0%	75%	0	N	140	0.37	0.00	200	2	0.200	0.000	0.21	1	2.1	0	L	85	0
11	Steuben	Hn	1%	75%	18	N	140	0.01	0.00			0.110	0.001	0.21	1	0.0	1			0
11	Steuben	Ht	11%	75%	163	N	140	0.01	0.00	225	1	0.160	0.017	0.21	1	0.0	8	M	15	2
11	Steuben	Hw	4%	75%	54	N	140	0.01	0.00	200	1	0.120	0.004	0.21	1	0.0	2	M	15	1
11	Steuben	KoA	5%	75%	73	N	140	0.28	0.01		1	0.195	0.009	0.21	1	1.6	114	SL	45	2
11	Steuben	KoB	12%	75%	181	N	140	0.28	0.03		4	0.577	0.070	0.21	1	4.6	843	SL	45	5
11	Steuben	MbA	0%	75%	0	N	140	0.37	0.00		1	0.170	0.000	0.21	1	1.8	0	L	45	0
11	Steuben	MbB	0%	75%	0	N	140	0.37	0.00	175	4	0.500	0.000	0.21	1	5.3	0	L	45	0
11	Steuben	Mc	0%	75%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.21	1	0.0	0	M	15	0
11	Steuben	MfB	4%	75%	54	N	140	0.17	0.01	150	4	0.390	0.014	0.21	1	1.9	104	LS	45	2
11	Steuben	MfC	2%	75%	36	N	140	0.17	0.00	100	9	1.170	0.028	0.21	1	5.7	208	LS	45	1
11	Steuben	Mm	6%	75%	91	N	140	0.28	0.02			0.170	0.010	0.21	1	1.4	124	L	45	3
11	Steuben	Mn	0%	75%	0	N	140	0.28	0.00			0.126	0.000	0.21	1	1.0	0	SiCL	110	0
11	Steuben	Mx	0%	75%	0	N	140	0.17	0.00			0.179	0.000	0.21	1	0.9	0	LS	45	0
11	Steuben	Mz	0%	75%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
11	Steuben	OhA	0%	75%	0	N	140	0.24	0.00		1	0.195	0.000	0.21	1	1.3	0	LS	45	0
11	Steuben	OhB	0%	75%	0	N	140	0.24	0.00	250	4	0.580	0.000	0.21	1	4.0	0	LS	45	0
11	Steuben	OhC	0%	75%	0	N	140	0.24	0.00		9	1.659	0.000	0.21	1	11.5	0	LS	45	0
11	Steuben	Pa	0%	75%	0	N	140	0.01	0.00			0.110	0.000	0.21	1	0.0	0	M	15	0
11	Steuben	Pe	0%	75%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
11	Steuben	Pg	0%	75%	0	N	140	0.10	0.00			0.776	0.000	0.21	1	2.2	0	G		0
11	Steuben	PnA	0%	75%	0	N	140	0.17	0.00		1	0.179	0.000	0.21	1	0.9	0	FS	20	0
11	Steuben	PnB	0%	75%	0	N	140	0.17	0.00		6	0.823	0.000	0.21	1	4.0	0	FS	20	0
11	Steuben	Rb	0%	75%	0	N	140	0.28	0.00	225	1	0.160	0.000	0.21	1	1.3	0	L	45	0
11	Steuben	RxA	0%	75%	0	N	140	0.24	0.00		1	0.247	0.000	0.21	1	1.7	0	SL	45	0
11	Steuben	RxB	23%	75%	345	N	140	0.24	0.05		4	0.528	0.121	0.21	1	3.6	1257	SL	45	10
11	Steuben	Ry	6%	75%	91	N	140	0.17	0.01			0.195	0.012	0.21	1	1.0	87	LS	45	3
11	Steuben	Sh	0%	75%	0	N	140	0.37	0.00			0.119	0.000	0.21	1	1.3	0	L	45	0
11	Steuben	Wa	0%	75%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.21	1	1.5	0	SiL	105	0
11	Steuben	Wh	4%	75%	54	N	140	0.37	0.01			0.159	0.006	0.21	1	1.7	92	SiL	105	4
11	Steuben	WsB	5%	75%	73	N	140	0.28	0.01		4	0.528	0.025	0.21	1	4.3	309	L	45	2
11	Steuben	Wx	0%	75%	0	N	140	0.37	0.00			0.170	0.000	0.21	1	1.8	0	L	45	0
County Weighted Averages							140		0.22				0.350	0.21	1					50
County Totals			100%	75%	1506												93	3532		
11	DEKALB	BeA	0%	0%	0	N	140	0.43	0.00	200	1	0.160	0.000	0.25	1	2.4	0	SiL	105	0
11	DEKALB	BaB2	0%	0%	0	N	140	0.43	0.00	200	3	0.350	0.000	0.25	1	5.3	0	SiL	105	0
11	DEKALB	Bn	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	SiC	110	0
11	DEKALB	BoB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
11	DEKALB	CrA	0%	0%	0	N	140	0.28	0.00	250	2	0.260	0.000	0.25	1	2.6	0	L	45	0
11	DEKALB	Em	0%	0%	0	N	140	0.37	0.00	300	1	0.120	0.000	0.25	1	1.6	0	L	45	0
11	DEKALB	HeA	0%	0%	0	N	140	0.37	0.00	200	2	0.250	0.000	0.25	1	3.3	0	L	45	0
11	DEKALB	Hd8	0%	0%	0	N	140	0.24	0.00	150	6	0.830	0.000	0.25	1	7.1	0	FSL	30	0
11	DEKALB	Hw	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
11	DEKALB	Ld	0%	0%	0	N	140	0.20	0.00	400	1	0.130	0.000	0.25	1	0.9	0	FSL	30	0
11	DEKALB	Mc	0%	0%	0	N	140	0.01	0.00	200	1	0.120	0.000	0.25	1	0.0	0	M	15	0
11	DEKALB	MfB	0%	0%	0	N	140	0.17	0.00	150	4	0.470	0.000	0.25	1	2.8	0	LS	45	0

SUB BASIN	COUNTY	SOIL SYMBOL	% AREA	% IN COUNTY	ACREAGE	HES	R	K	WEIGHTED K	L	S	WEIGHTED LS	LS	C	P	SOIL LOSS	GROSS EROSION	TEXTURE	P UAL	WEIGHTED P UAL
11	DEKALB	OdB	0%	0%	0	N	140	0.17	0.00	250	3	0.380	0.000	0.25	1	2.3	0	LS	45	0
11	DEKALB	OhB	0%	0%	0	N	140	0.24	0.00	250	3	0.380	0.000	0.25	1	3.2	0	SL	45	0
11	DEKALB	Pe	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SiC	105	0
11	DEKALB	RaB	0%	0%	0	N	140	0.24	0.00	200	4	0.530	0.000	0.25	1	4.5	0	SL	45	0
11	DEKALB	Re	0%	0%	0	N	140	0.28	0.00	400	1	0.130	0.000	0.25	1	1.3	0	L	45	0
11	DEKALB	Se	0%	0%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.25	1	1.4	0	SL	45	0
11	DEKALB	Ud	0%	0%	0	N	140	0.32	0.00		0		0.000	0.25	1	0.0	0	L	45	0
11	DEKALB	Wa	0%	0%	0	N	140	0.32	0.00	200	1	0.160	0.000	0.25	1	1.8	0	SiL	105	0
11	DEKALB	Wt	0%	0%	0	N	140	0.37	0.00	250	1	0.170	0.000	0.25	1	2.2	0	SiL	105	0
County Weighted Averages							140		0.000				0.000	0.25	1					0
County Totals			0%	0%	0											49	0			
11	LAGRANGE	Ad	0%	25%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
11	LAGRANGE	Am	0%	25%	0	N	140	0.01	0.00	250	1	0.170	0.000	0.21	1	0.1	0	M	15	0
11	LAGRANGE	BaA	0%	25%	0	N	140	0.43	0.00	250	2	0.220	0.000	0.21	1	2.8	0	SiL	105	0
11	LAGRANGE	BoA	0%	25%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LS	45	0
11	LAGRANGE	BoB	37%	25%	184	N	140	0.17	0.06	175	4	0.500	0.185	0.21	1	2.5	466	LS	45	17
11	LAGRANGE	Bp	0%	25%	0	N	140	0.20	0.00	200	1	0.160	0.000	0.21	1	1.0	0	SL	45	0
11	LAGRANGE	BtA	0%	25%	0	N	140	0.15	0.00	200	2	0.200	0.000	0.21	1	0.9	0	S	20	0
11	LAGRANGE	BxA	0%	25%	0	N	140	0.24	0.00	200	2	0.200	0.000	0.21	1	1.4	0	SL	45	0
11	LAGRANGE	ChB	26%	25%	129	N	140	0.15	0.04	225	4	0.450	0.117	0.21	1	2.0	259	FS	20	5
11	LAGRANGE	CrA	15%	25%	74	N	140	0.28	0.04	225	2	0.210	0.031	0.21	1	1.8	129	L	45	7
11	LAGRANGE	Ed	4%	25%	18	N	140	0.01	0.00	200	1	0.120	0.004	0.21	1	0.0	1	M	15	1
11	LAGRANGE	Gf	11%	25%	55	N	140	0.20	0.02	175	1	0.150	0.017	0.21	1	0.9	49	SL	45	5
11	LAGRANGE	Gr	0%	25%	0	N	140	0.17	0.00	175	1	0.150	0.000	0.21	1	0.8	0	LFS	25	0
11	LAGRANGE	HaA	0%	25%	0	N	140	0.37	0.00	175	2	0.190	0.000	0.21	1	2.1	0	L	45	0
11	LAGRANGE	HdA	0%	25%	0	N	140	0.24	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SL	45	0
11	LAGRANGE	HdB	0%	25%	0	N	140	0.24	0.00	175	4	0.500	0.000	0.21	1	3.6	0	SL	45	0
11	LAGRANGE	Ho	0%	25%	0	N	140	0.24	0.00	175	1	0.150	0.000	0.21	1	1.1	0	SL	45	0
11	LAGRANGE	Ht	0%	25%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
11	LAGRANGE	Hw	0%	25%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
11	LAGRANGE	Hx	0%	25%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
11	LAGRANGE	MbB	0%	25%	0	N	140	0.24	0.00	175	4	0.430	0.000	0.21	1	3.1	0	SL	45	0
11	LAGRANGE	Mc	0%	25%	0	N	140	0.01	0.00	175	1	0.150	0.000	0.21	1	0.0	0	M	15	0
11	LAGRANGE	MeB	0%	25%	0	N	140	0.17	0.00	175	4	0.500	0.000	0.21	1	2.5	0	LS	45	0
11	LAGRANGE	NaA	0%	25%	0	N	140	0.37	0.00	250	2	0.220	0.000	0.21	1	2.4	0	SiL	105	0
11	LAGRANGE	OsA	0%	25%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	LS	45	0
11	LAGRANGE	OsB	0%	25%	0	N	140	0.24	0.00	225	4	0.560	0.000	0.21	1	4.0	0	LS	45	0
11	LAGRANGE	OuB	0%	25%	0	N	140	0.21	0.00	225	5	0.670	0.000	0.21	1	4.2	0			0
11	LAGRANGE	Pm	0%	25%	0	N	140	0.01	0.00	225	1	0.160	0.000	0.21	1	0.0	0	M	15	0
11	LAGRANGE	PrA	0%	25%	0	N	140	0.32	0.00	250	1	0.170	0.000	0.21	1	1.6	0	L	45	0
11	LAGRANGE	Pt	0%	25%	0	N	140	0.23	0.00	225	1	0.160	0.000	0.21	1	1.1	0	SiCL	110	0
11	LAGRANGE	Pv	0%	25%	0	N	140	0.10	0.00	100	43	14.50	0.000	0.21	1	43.3	0	G		0
11	LAGRANGE	PxB	0%	25%	0	N	140	0.15	0.00	200	4	0.530	0.000	0.21	1	2.4	0	S	20	0
11	LAGRANGE	PzA	0%	25%	0	N	140	0.15	0.00	225	1	0.160	0.000	0.21	1	0.7	0	LS	45	0
11	LAGRANGE	RaB	0%	25%	0	N	140	0.24	0.00	150	4	0.470	0.000	0.21	1	3.4	0	SL	45	0
11	LAGRANGE	Rb	7%	25%	37	N	140	0.32	0.02	225	1	0.160	0.012	0.21	1	1.5	56	L	45	3
11	LAGRANGE	Se	0%	25%	0	N	140	0.24	0.00	250	1	0.170	0.000	0.21	1	1.2	0	L	45	0
11	LAGRANGE	ShA	0%	25%	0	N	140	0.20	0.00	250	1	0.170	0.000	0.21	1	1.0	0	SL	45	0
11	LAGRANGE	ShB	0%	25%	0	N	140	0.20	0.00	175	4	0.500	0.000	0.21	1	3.0	0	SL	45	0
11	LAGRANGE	Ud	0%	25%	0	N	140	0.32	0.00	125	6	0.750	0.000	0.21	1	7.2	0	L	45	0
11	LAGRANGE	Wa	0%	25%	0	N	140	0.37	0.00	150	1	0.140	0.000	0.21	1	1.5	0	SiL	105	0
11	LAGRANGE	WeA	0%	25%	0	N	140	0.28	0.00	250	1	0.170	0.000	0.21	1	1.4	0	FSL	30	0
11	LAGRANGE	WeB	0%	25%	0	N	140	0.28	0.00	225	4	0.560	0.000	0.21	1	4.7	0	FSL	30	0
11	LAGRANGE	Wi	0%	25%	0	N	140	0.24	0.00	200	1	0.160	0.000	0.21	1	1.1	0			0
County Weighted Averages							140		0.19				0.366	0.21	1					37
County Totals			100%	25%	496											116	961			
Subbasin Weighted Averages							140		0.21				0.354	0.21	1					47
Subbasin Totals					2002											258	4493			

APPENDIX C

LAKE PHOSPHORUS MODELS

LAKE PHOSPHORUS MODEL

(Based upon Reckhow and Simpson, 1980)

$P = L/(11.6 + 1.2 * qs)$

Where: P = Lake phosphorus concentration (mg/L)
L = Phosphorus loading (g/sq m-yr)
qs = Areal water loading (m/yr)

Estimation of qs for Big Turkey Lake:

$Q = (Ad * r) + (Ao * Pr)$

and

$qs = Q/Ao$

Where: Q = Inflow water volume (cu m/yr)

Ao = Lake surface area =	1,821,000	sq m
Ad = Watershed area =	91,822,000	sq m
r = Total annual unit runoff =	0.30	m/yr
Pr = Mean annual net precipitation =	0.90	m/yr

Q =	2.88E+07	cu m/yr
qs =	15.8	m/yr

Estimation of L for Big Turkey Lake

$M = (Ef * Af) + (Ea * Aa) + (Ee * Ae) + (Eg * Ag) + (Eu * Au) + (Ew * Aw) + (Ep * Ao) + (Es * C * (1 - Ks)) + PSI$

and

$L = M / Ao$

Where: M = Total phosphorus mass loading (kg/yr)
Ef = P export coefficient for forest land (kg/ha-yr)
Af = Area of forest land (ha)
Ea = P export coefficient for rowcrop land (kg/ha-yr)
Aa = Area of rowcrop land (ha)
Ee = P export coefficient for highly erodible rowcrop land (kg/ha-yr)
Ae = Area of highly erodible rowcrop land (ha)
Eg = P export coefficient for grass land (kg/ha-yr)
Ag = Area of grass land (ha)
Eu = P export coefficient for urban land (kg/ha-yr)
Au = Area of urban land (ha)
Ew = P export coefficient for wetland (kg/ha-yr)
Aw = Area of wetland (ha)

Ep = P export coefficient for precipitation (kg/ha-yr)
Es = P export coefficient for septic systems impacting the lake (kg/C-yr)
C = # capita-years serviced by septic systems
Ks = Soil retention coefficient
PSI = Point source inputs

Sources	Area		Phosphorus Export Coefficients High	Most Likely	Low	
Forest	518	ha	0.2	0.1	0.05	kg/ha-yr
Rowcrop	3,564	ha	1.3	0.5	0.25	kg/ha-yr
Erodible	2,011	ha	1.6	0.8	0.5	kg/ha-yr
Grass	1,643	ha	0.8	0.15	0.05	kg/ha-yr
Urban	227	ha	1.0	0.6	0.25	kg/ha-yr
Wetland	910	ha	0.02	-0.2	-0.5	kg/ha-yr
Shrub	126	ha	0.25	0.1	0.07	kg/ha-yr
Precip	182	ha	0.3	0.2	0.1	kg/ha-yr
Septics	378	cap-yrs	1.0	0.7	0.3	kg/cap-yr/yr
	9,182	ha				

	Phosphorus Mass Loading High	Most Likely	Low	
Forest	104	52	26	kg/yr
Rowcrop	4,455	1,825	891	
Erodible	3,218	1,635	1,006	
Grass	1,232	246	82	
Urban	227	136	57	
Wetland	18	-182	-455	
Shrub	32	13	9	
Precip	55	36	18	
Septics	189	132	57	
W =	9,530	3,893	1,690	kg/yr

Areal Phosphorus Loading (L):

High =	5.2	g/sq m/yr
Most likely =	2.1	
Low =	0.93	

Lake Phosphorus Concentration (P):

High =	0.171	mg/L
Most likely =	0.070	
Low =	0.030	

ESTIMATION OF UNCERTAINTY (St)

log P (most likely) =	-1.156	
"Positive" model error =	0.0239	mg/L
"Negative" model error =	-0.0178	mg/L
"Positive" loading error =	0.0506	mg/L
"Negative" loading error =	0.0198	mg/L
"Positive" uncertainty =	0.0560	mg/L
"Negative" uncertainty =	0.0266	mg/L

55% confidence limits (lower) =	0.043	mg/L
55% confidence limits (upper) =	0.126	mg/L
90% confidence limits (lower) =	0.0166	mg/L
90% confidence limits (upper) =	0.182	mg/L

LAKE PHOSPHORUS MODEL

(Based upon Reckhow and Simpson, 1980)

$P = L/(11.6 + 1.2 * qs)$

Where: P = Lake phosphorus concentration (mg/L)
L = Phosphorus loading (g/sq m-yr)
qs = Areal water loading (m/yr)

Estimation of qs for Little Turkey Lake:

$Q = (Ad * r) + (Ao * Pr)$

and

$qs = Q/Ao$

Where: Q = Inflow water volume (cu m/yr)

Ao = Lake surface area =	546,000	sq m
Ad = Watershed area =	134,668,000	sq m
r = Total annual unit runoff =	0.30	m/yr
Pr = Mean annual net precipitation =	0.90	m/yr

Q =	4.04E+07	cu m/yr
qs =	73.9	m/yr

Estimation of L for Little Turkey Lake

$M = (Ef * Af) + (Ea * Aa) + (Ee * Ae) + (Eg * Ag) + (Eu * Au) + (Ew * Aw) + (Ep * Ao) + (Es * C * (1 - Ks)) + PSI$

and

$L = M / Ao$

Where: M = Total phosphorus mass loading (kg/yr)
Ef = P export coefficient for forest land (kg/ha-yr)
Af = Area of forest land (ha)
Ea = P export coefficient for rowcrop land (kg/ha-yr)
Aa = Area of rowcrop land (ha)
Ee = P export coefficient for highly erodible rowcrop land (kg/ha-yr)
Ae = Area of highly erodible rowcrop land (ha)
Eg = P export coefficient for grass land (kg/ha-yr)
Ag = Area of grass land (ha)
Eu = P export coefficient for urban land (kg/ha-yr)
Au = Area of urban land (ha)
Ew = P export coefficient for wetland (kg/ha-yr)
Aw = Area of wetland (ha)

Ep = P export coefficient for precipitation (kg/ha-yr)
Es = P export coefficient for septic systems impacting the lake (kg/C-yr)
C = # capita-years serviced by septic systems
Ks = Soil retention coefficient
PSI = Point source inputs

Sources	Area		Phosphorus Export Coefficients High	Most Likely	Low	
Forest	956	ha	0.2	0.1	0.05	kg/ha-yr
Rowcrop	5,217	ha	1.3	0.5	0.25	kg/ha-yr
Erodible	3,031	ha	1.6	0.8	0.5	kg/ha-yr
Grass	1,757	ha	0.8	0.15	0.05	kg/ha-yr
Urban	477	ha	1.0	0.6	0.25	kg/ha-yr
Wetland	1,800	ha	0.02	-0.2	-1.0	kg/ha-yr
Shrub	174	ha	0.25	0.1	0.07	kg/ha-yr
Precip	55	ha	0.3	0.2	0.1	kg/ha-yr
Septics	75	cap-yrs	1.0	0.7	0.3	kg/cap-yr/yr
	13,467	ha				

	Phosphorus Mass Loading High	Most Likely	Low	
Forest	191	96	48	kg/yr
Rowcrop	6,521	2,437	1,304	
Erodible	4,849	2,351	1,515	
Grass	1,318	264	88	
Urban	477	286	119	
Wetland	36	-360	-1800	
Shrub	44	17	12	
Precip	16	11	5	
Septics	37	26	11	
W =	13,490	5,127	1,304	kg/yr

Areal Phosphorus Loading (L):

High =	24.7	g/sq m/yr
Most likely =	9.4	
Low =	2.39	

Lake Phosphorus Concentration (P):

High =	0.246	mg/L
Most likely =	0.094	
Low =	0.024	

ESTIMATION OF UNCERTAINTY (St)

log P (most likely) =	-1.029	
"Positive" model error =	0.0321	mg/L
"Negative" model error =	-0.0239	mg/L
"Positive" loading error =	0.0763	mg/L
"Negative" loading error =	0.0349	mg/L
"Positive" uncertainty =	0.0828	mg/L
"Negative" uncertainty =	0.0423	mg/L

55% confidence limits (lower) =	0.051	mg/L
55% confidence limits (upper) =	0.176	mg/L
90% confidence limits (lower) =	0.0090	mg/L
90% confidence limits (upper) =	0.259	mg/L

APPENDIX D

SEDIMENT TRAPPING COMPUTATIONS AND COST ESTIMATES

Appendix D

PROPOSED WETLAND LOCATIONS

Wetland No.	Subbasin No.	Weir Location, Section No.
1	9	20 C
2	8	19
3	6	4 NW
4	4	35 NW
5	3	35 C
6	1	25 NE
7	13	14 C
8	17	24 C

AVERAGE ANNUAL SEDIMENTATION WITH WETLANDS

Lake or wetland:	McClish	Woods	8	Big Long	Pretty	7	6	5	Little Turkey (Steu.)	4 [1]	Story	3	2	1	Big Turkey	Little Turkey
Gross drainage area - ac	-	-	-	-	-	-	662	2300	5320	5390	-	1220	14660	4270	-	-
- mi^2	1.28	5.25	7.04	4.77	2.89	15.3	1.03	3.59	8.31	8.42	3.16	1.91	22.9	6.67	35.8	56.5
Surface area, ac	35	136	108	388	184	333	78	17	58	130	77	74	410	81	450	135
Net drainage area - ac	-	-	-	-	-	-	584	2280	5260	5260	-	1150	14250	4190	-	-
- mi^2	1.23	5.04	6.87	4.16	2.60	14.8	0.912	3.56	8.22	8.22	3.04	1.80	22.3	6.55	35.1	56.3
Upstream-Site Delivery																
Site(s)	None	McClish	Woods	None	None	8, Pretty, Big Long	None	None	5,6	Little Turkey (Steu.)	None	None	3,4, Story	None	1,2	7, Big Turkey
Sediment outflow, tons		0	100			700			2400	-			900		4600	1900
Gross drainage area, mi^2		1.28	5.25			14.7			4.62	-			13.5		29.6	51.1
Intervening area, mi^2		3.76	1.62			0.1			3.60	0			8.8		5.5	5.2
Delivery, ratio[2]			0.91			0.99			0.86	-			0.87		0.93	0.96
Delivery, tons		0	100			700			2100	900			800		4300	1800
Intervening Area																
Yield, tons/mi^2[3]	864	756	836	747	790	1170	896	761	760	0	775	826	682	707	722	727
Sediment discharge, tons	1100	2800	1400	3100	2100	100	800	2700	2700	0	2400	1500	6000	4600	4000	3800
Site																
Total sediment discharge, tons	1100	2800	1500	3100	2100	800	800	2700	4800	900	2400	1500	6800	4600	8300	5600
Capacity, ac-ft	1210	5470	400	10000[4]	4720	1800	500	50	780	300	1020	400	1600	400	7300	1500
Water inflow, ac-ft[5]	870	3600	4800	3200	2000	10000	700	2400	5700	5700	2100	1300	15600	4500	24300	38400
Capacity/inflow ratio	1.4	1.5	0.08	3	2.4	0.18	0.7	0.02	0.14	0.05	0.5	0.3	0.10	0.09	0.3	0.04
Trap efficiency - curve	mBm	mBm	Wet.	mBm	mBm	Wet.	Wet.	Wet.	mBm	Wet.	mBm	Wet.	Wet.	Wet.	mBm	mBm
- %	98	98	56	100	99	73	86	16	82	43	95	80	61	58	80	52
Deposition, tons	1100	2700	800	3100	2100	600	700	400	3900	400	2300	1200	4100	2700	6600	2900
Outflow, tons	0	100	700	0	0	200	100	2300	900	500	100	300	2700	1900	1700	-
Downstream site	Woods	8	7	7	7	Little Turkey	Little Turkey (Steu.)	Little Turkey (Steu.)	4	2	2	2	Big Turkey	Big Turkey	Little Turkey	-

a/ $(A_{ps}^{0.88} - IA^{0.88})/A_{ps}^{0.88}$.
b/ $886A^{0.12}$.
c/ 680 x gross A.
d/ mBm = modified Brune, minimum (fine material). Wet. = wetland.
e/ Volume not published. Estimated as Pretty Lake volume x ratio of surface areas. Results insensitive to this number.
f/ Temporary flood pool above Little Turkey Lake (Steuben County). Trap efficiency less than for permanent pool.

AVERAGE ANNUAL SEDIMENTATION
WITHOUT WETLANDS

Lake:	Little Turkey (Steu.)	Big Turkey	Little Turkey
Gross drainage area, mi^2	8.31	35.8	56.5
Net drainage area, mi^2	8.22	35.1	56.3
Upstream-Lake Delivery			
Lakes	None	Little Turkey (S.), Story	Woods, B. Long, Pretty, Big T.
Sediment outflow, tons		1100	3100
Gross drainage area, mi^2		11.5	48.7
Intervening area, mi^2		23.5	7.6
Delivery ratio		0.79	0.94
Delivery, tons		900	2900
Intervening Area			
Yield, tons/mi^2	688	607	695
Sediment discharge, tons	5700	14,300	5300
Site			
Total sediment discharge, tons	5700	15,200	8200
Capacity, ac-ft	780	7,300	1550
Water inflow, ac-ft	5700	24,300	38,400
Capacity/inflow ratio	0.14	0.3	0.04
Trap efficiency, % (mBm)	82	80	52
Deposition, tons	4700	12,200	4300
Outflow, tons	1000	3000	-
Downstream site	Big Turkey	Little Turkey	

Small Sediment Trap Cost Estimate
Turkey Lakes Enhancement Study

APPENDIX
Sheet 1 of 2
Estimated - DRB
Checked - DBP

No.	Item	Quantity	Unit	Unit Price	Amount
1	Mobilization @ 5%	All	ls		$2,000
2	Dam	759	cy	10	7,600
3	Seeding and Reclamation	300	sy	2	600
4	Gravel	15	cy	20	296
5	Concrete	21	cy	400	8,444
6	Riprap	20	cy	25	500
7	Baffling	1,185	cy	10	11,900
8	Site Clearing	All	ls		2,500
	Estimated Total Construction Cost				$33,800
	Contingency @ 30%				10,100
	Engineering @ 10%				3,400
	Testing/Permits @ 5%				1,700
	Estimated Total Cost				$49,000

Large Sediment Trap Cost Estimate
Turkey Lakes Enhancement Study

APPENDIX
Sheet 2 of 2
Estimated - DRB
Checked - DBP

No.	Item	Quantity	Unit	Unit Price	Amount
1	Mobilization @ 5%	All	ls		$7,000
2	Dam	3,967	cy	10	39,700
3	Seeding and Reclamation	1,300	sy	2	2,600
4	Gravel	44	cy	20	889
5	Concrete	79	cy	400	31,556
6	Riprap	30	cy	25	750
7	Baffling	5,556	cy	10	55,600
8	Site Clearing	All	ls		2,500
	Estimated Total Construction Cost				$140,600
	Contingency @ 30%				42,200
	Engineering @ 10%				14,100
	Testing/Permits @ 5%				7,000
	Estimated Total Cost				$203,900