

# Appendixes

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The following abbreviations are used throughout the appendix tables.

AV	avenue
BR	branch
CK	creek
CR	creek/county road
D and DCH	ditch
DS	downstream
DR	drive
FK	fork
FT	foot/feet
I-70	Interstate 70
IN	Indiana
INDPLS	Indianapolis
LK	lake
MI	mile
MT	mount
MUSC	Muscatatuck
NR	near
OH	Ohio
PL	place
R	river
RD	road
RMI	river mile
S6THSTRD	South 6 <sup>th</sup> Street Road
SR	state road
ST	Saint or street
TRIB	tributary
US	upstream
USHWY	U.S. Highway
USHWY50BUS	U.S. Highway 50 Business
WW	Whitewater
WWTF	wastewater-treatment facility

**Appendix 1.** Location and ecoregion designations of the 34 algal-biomass sampling sites in the West Fork White River Basin, Indiana, July through September 2001.

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
301	384211087065501	EAGAN DITCH 1000 FT US CR 350N NR WASHINGTON, IN	IX	72	38.70314	-87.11519
302	400620086050901	HINKLE CK 1500 FT US EAST 216TH ST AT DEMING, IN	VI	55	40.10550	-86.08569
303	391009086403001	RICHLAND CREEK 2200 FT US SR 43 AT WHITEHALL, IN	IX	71	39.16925	-86.67497
304	393410086085901	HONEY CR 2300 FT US SR 135 AT STONES CROSSING, IN	VI	55	39.56947	-86.14986
305	385847087123301	BREWER DCH 2000 FT DS CR 1450W NR PLEASANTVILLE, IN	IX	72	38.97981	-87.20928
306	392659086181801	SOUTH PRONG STOTTS CK 1200 FT US SR 44 AT COPE, IN	VI	55	39.44967	-86.30492
311	401606085532301	POLYWOG CK 3000 FT US CR 300S AT NEW LANCASTER, IN	VI	55	40.26842	-85.88969
313	384949087024201	KANE DITCH 1200 FT DS CR 700E NR EPSOM, IN	IX	72	38.83017	-87.04497
314	394234086112801	LICK CREEK 1200 FT DS SOUTH HARDING ST AT INDPLS	VI	55	39.70931	-86.19117
316	395256086242601	BEAMAN DITCH 3800 FT US CR 800N NR BROWNSBURG, IN	VI	55	39.88219	-86.40722
318	394734086133501	LITTLE EAGLE CREEK 2100 FT US WEST 16TH ST INDPLS	VI	55	39.79292	-86.22642
319	401451086110701	KIGIN DITCH 300 FT US CR 900W NR EKIN, IN	VI	55	40.24744	-86.18542
320	393046086573501	BIG WALNUT CK 3700 FT US 1-70 NR PLEASANT GARDENS	IX	72	39.51281	-86.95969
321	385116086565701	UNNAMED CREEK 3500 FT DS CR 1100E NR FARLEN, IN	IX	72	38.85442	-86.94911
322	393855086245601	W FK WHITE LICK CK 1500 FT US I-70 NR PLAINFIELD	VI	55	39.64856	-86.41567
323	401449085311801	JAKES CREEK 600 FT DS CR 700W AT BETHEL, IN	VI	55	40.24683	-85.52169
324	395003086410401	BIG WALNUT CREEK 1600 FT US CR 900E NR BARNARD, IN	VI	55	39.83422	-86.68439
327	400046085370901	FALL CREEK 1300 FT DS CR 300E NR EMPORIA, IN	VI	55	40.01286	-85.61917
330	393022086313401	LAMBS CREEK 1600 FT DS BEREAN RD NR WILBUR, IN	IX	71	39.50614	-86.52622
331	400409086022401	CICERO CREEK 5000 FT US SR 38 AT NOBLESVILLE, IN	VI	55	40.06925	-86.03997
332	394648086432701	PLUM CREEK 1800 FT US CR 800N AT NEW MAYSVILLE, IN	VI	55	39.77997	-86.72403
335	400831084552901	WHITE RIVER 2800 FT DS CR 200S NR WINCHESTER, IN	VI	55	40.14186	-84.92461

**Appendix 1. Location and ecoregion designations of the 34 algal-biomass sampling sites in the West Fork White River Basin, Indiana, July through September 2001.—Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDP, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
336	393047087030601	BILLY CREEK 400 FT DS CR 125S NR HARMONY, IN	IX	72	39.51308	-87.05164
337	390555087002601	SLOAN DITCH 4800 FT DS SR 67 NR DIXON, IN	IX	72	39.09850	-87.00711
338	393713086213101	E FK WHITE LICK CK 1400FT US OLD 67 MOORESVILLE	VI	55	39.62025	-86.35869
339	401237085510001	LAMBERSON DITCH 1300 FT US CR 700N NR AROMA, IN	VI	55	40.21039	-85.85003
340	392755086444401	MILL CREEK 3800 FT US CR 1150N AT WALLACE JUNCTION	IX	71	39.46536	-86.74544
341	384333087082001	N FK PRARIE CK 3000 FT US CR 100E NR WASHINGTON, IN	IX	72	38.72586	-87.13886
342	395935086163801	EAGLE CREEK 2600 FT US WEST 146TH ST AT ZIONSVILLE	VI	55	39.99303	-86.27725
343	394214086065501	LICK CK 600 FT DS OF CARSON AV AT BEECH GROVE, IN	VI	55	39.70392	-86.11519
344	392116087052501	TURKEY CREEK 500 FT US CR 665 NR SALINE CITY, IN	IX	72	39.35447	-87.09036
346	393402086384301	MUD CREEK 5300 FT DS CR 1100W AT LITTLE POINT, IN	VI	55	39.56731	-86.64531
347	401219085344901	KILLBUCK CREEK 500 FT DS CR 800N NR GILMAN, IN	VI	55	40.20533	-85.58031
348	394307086474301	BLEDSON BRANCH 500 FT US CR 400N NR FILLMORE, IN	VI	55	39.71867	-86.79542

<sup>1</sup>The full IDEM site number has a prefix of INRB, for example INRB01-301.

<sup>2</sup>U.S. Environmental Protection Agency, 2000a, b.

<sup>3</sup>U.S. Environmental Protection Agency, 1977b.

**Appendix 2.** Basin characteristics of the 34 algal-biomass sampling sites in the West Fork White River Basin, Indiana, July through September 2001.

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km2, square kilometer; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
301	EAGAN DITCH 1000 FT US CR 350N NR WASHINGTON, IN	21.7	95.9	2.9	1.1	0.0
302	HINKLE CK 1500 FT US EAST 216TH ST AT DEMING, IN	46.9	96.7	2.0	.3	1.0
303	RICHLAND CREEK 2200 FT US SR 43 AT WHITEHALL, IN	17.9	49.8	45.8	.6	3.8
304	HONEY CR 2300 FT US SR 135 AT STONES CROSSING, IN	7.8	90.3	1.1	8.6	.0
305	BREWER DCH 2000 FT DS CR 1450W NR PLEASANTVILLE, IN	32.1	49.8	37.7	.4	12.1
306	SOUTH PRONG 1200 FT US SR 44 AT COPE, IN	83.7	77.9	21.0	.7	.4
311	POLYWOG CK 3000 FT US CR 300S AT NEW LANCASTER, IN	38.0	98.0	.9	.5	.6
313	KANE DITCH 1200 FT DS CR 700E NR EPSOM, IN	23.4	90.0	4.8	5.1	.1
314	LICK CREEK 1200 FT DS SOUTH HARDING ST AT INDPLS	58.5	39.7	5.0	55.0	.4
316	BEAMAN DITCH 3800 FT US CR 800N NR BROWNSBURG, IN	6.9	98.7	.2	1.2	.0
318	LITTLE EAGLE CREEK 2100 FT US WEST 16TH ST INDPLS	49.6	44.8	5.3	49.4	.5
319	KIGIN DITCH 300 FT US CR 900W NR EKIN, IN	4.1	98.0	1.2	0	.9
320	BIG WALNUT CK 3700 FT US I-70 NR PLEASANT GARDENS	853.8	81.7	16.4	1.2	.8
321	UNNAMED CREEK 3500 FT DS CR 1100E NR FARLEN, IN	1.5	60.6	38.8	0	.6
322	W FK WHITE LICK CK 1500 FT US I-70 NR PLAINFIELD	160.5	89.0	7.9	2.6	.6
323	JAKES CREEK 600 FT DS CR 700W AT BETHEL, IN	46.1	73.9	5.3	19.8	1.0
324	BIG WALNUT CREEK 1600 FT US CR 900E NR BARNARD, IN	308.8	96.7	2.2	.8	.3
327	FALL CREEK 1300 FT DS CR 300E NR EMPORIA, IN	118.3	92.3	5.9	1.1	.7
330	LAMBS CREEK 1600 FT DS BEREAN RD NR WILBUR, IN	30.2	43.9	54.7	.4	1.1
331	CICERO CREEK 5000 FT US SR 38 AT NOBLESVILLE, IN	558.0	94.2	1.4	1.9	2.5
332	PLUM CREEK 1800 FT US CR 800N AT NEW MAYSVILLE, IN	4.9	97.1	2.9	0	0
335	WHITE RIVER 2800 FT DS CR 200S NR WINCHESTER, IN	26.7	97.4	2.3	0	.3
336	BILLY CREEK 400 FT DS CR 125S NR HARMONY, IN	19.3	74.9	13.3	10.1	1.7
337	SLOAN DITCH 4800 FT DS SR 67 NR DIXON, IN	9.4	86.9	1.8	11.3	.1

**Appendix 2. Basin characteristics of the 34 algal-biomass sampling sites in the West Fork White River Basin, Indiana, July through September 2001.—Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km2, square kilometer; FT, feet; US, upstream; INDP, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
338	E FK WHITE LICK CK 1400FT US OLD 67 MOORESVILLE	125.7	79.7	5.3	14.5	.5
339	LAMBERSON DITCH 1300 FT US CR 700N NR AROMA, IN	14.5	96.6	.9	1.6	.9
340	MILL CREEK 3800 FT US CR 1150N AT WALLACE JUNCTION	563.1	91.5	7.5	0.7	0.3
341	N FK PRARIE CK 3000 FT US CR 100E NR WASHINGTON,IN	159.7	91.2	7.5	.1	1.2
342	EAGLE CREEK 2600 FT US WEST 146TH ST AT ZIONSVILLE	154.8	95.8	2.6	.7	.8
343	LICK CK 600 FT DS OF CARSON AV AT BEECH GROVE,IN	46.6	43.3	5.4	50.9	.4
344	TURKEY CREEK 500 FT US CR 665 NR SALINE CITY, IN	13.7	84.2	13.4	.1	2.3
346	MUD CREEK 5300 FT DS CR 1100W AT LITTLE POINT,IN	93.4	95.4	3.3	1.3	.1
347	KILLBUCK CREEK 500 FT DS CR 800N NR GILMAN, IN	158.8	85.8	5.1	8.1	1.0
348	BLED SOE BRANCH 500 FT US CR 400N NR FILLMORE, IN	12.6	71.5	24.5	4.0	0
	Minimum	1.5	39.7	.2	0	0
	Mean	113.8	81.0	10.5	7.5	1.1
	Median	42.0	89.5	5.2	1.1	.6
	Maximum	853.8	98.7	54.7	55.0	12.1
	Standard deviation	188.9	19.1	13.9	14.8	2.1

<sup>1</sup>The full IDEM site number has a prefix of INRB, for example INRB01-301.

<sup>2</sup>Land-use percentages were determined by the U.S. Geological Survey using the National Land Cover Dataset (U.S. Geological Survey, 2000).

**Appendix 3. Location and ecoregion designations of the 38 algal-biomass sampling sites in the Whitewater River Basin, Indiana, May through September, 2002.**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; R, River; RD, Road; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana; OH, Ohio; trib, tributary; USHWY, U.S. Highway; RMI, River mile]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
401	395620085090801	WHITEWATER R 400 FT DS HOOVER RD NR HAGERSTOWN, IN	VI	55	39.93886	-85.15209
402	394041084562001	RICHLAND CK 3800 FT US CR 100W NR CLIFTON, IN	VI	55	39.67814	-84.93903
403	393827085001401	E FK WHITEWATER R 2700 FT US SR 44 NR LIBERTY, IN	VI	55	39.64075	-85.00390
404	392010085163801	SALT CK 1500 FT DS ENOCHSBURG RD AT ENOCHSBURG, IN	VI	55	39.33613	-85.27721
407	393249085113501	N BR GARRISON CK 200 FT DS CR 650S AT ALPINE, IN	IX	71	39.54706	-85.19307
408	395649084545201	FOUNTAIN CK AT WHITEWATER RD AT FOUNTAIN CITY, IN	VI	55	39.94703	-84.91431
409	395350085054001	MORGAN CK 2000 FT DS SR 38 NR GREENS FK, IN	VI	55	39.89713	-85.09450
410	392254084554401	BIG CEDAR CK 9400 FT US USHWY52 NR CEDAR GROVE, IN	IX	71	39.38171	-84.92901
411	393609085155801	FALL CK 1000 FT DS CR 425W NR COLUMBIA, IN	VI	55	39.60240	-85.21611
412	392251085074801	PIPE CK 900 FT US PUMPHOUSE RD NR OAK FOREST, IN	IX	71	39.38089	-85.12989
413	395148085074801	MARTINDALE CK 3900 FT US I-70 NR JACKSONBURG, IN	VI	55	39.86319	-85.12989
415	393514084580001	UNNAMED TRIB 1800 FT DS CR 175W NR ROSEBURG, IN	VI	55	39.58728	-84.96669
416	395158084535701	W FK WHITEWATER R 2000 FT DS I-70 NR RICHMOND, IN	VI	55	39.86605	-84.89922
417	394735084561001	LICK CK 2200 FT US ABINGTON PIKE NR RICHMOND, IN	VI	55	39.79307	-84.93633
419	393439085092401	WHITEWATER R 1200 FT US CR 480S AT NULLTOWN, IN	VI	55	39.57748	-85.15678
420	392645085071101	WHITEWATER R 8200 FT DS USHWY 52 AT METAMORA, IN	IX	71	39.44582	-85.11985
421	395344085064201	OSER CK 2700 FT DS SR 38 NR HAGERSTOWN, IN	VI	55	39.89553	-85.11174
422	392616085042301	WHITEWATER R 4 MI DS USHWY 52 AT YELLOW BANK, IN	IX	71	39.43783	-85.07293
423	393913084491301	LITTLE FOUR MI CK 2 MI US SR 44 NR FAIRHAVEN, OH	VI	55	39.65362	-84.82024
425	394904085002401	CROWN CK 400 FT DS MCMINN RD AT CENTERVILLE, IN	VI	55	39.81765	-85.00669
427	394318085073301	WHITEWATER R 7200 FT US CR 440N AT BEESONS, IN	VI	55	39.72157	-85.12593

**Appendix 3.** Location and ecoregion designations of the 38 algal-biomass sampling sites in the Whitewater River Basin, Indiana, May through September, 2002.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; R, River; RD, Road; CR, County Road; SR, State Route; DS, downstream; CK, Creek, FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana; OH, Ohio; trib, tributary; USHWY, U.S. Highway; RMI, River mile]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
428	395902084530801	FOUNTAIN CK 2800 FT US SEANEY RD NR BETHEL, IN	VI	55	39.98391	-84.88557
429	394649085023001	NOLANDS FK 2600 FT DS MCCONAHA RD NR PINHOOK, IN	VI	55	39.78034	-85.04153
430	392142085152501	SALT CK 2300 FT US CR 250W NR HAMBURG, IN	VI	55	39.36165	-85.25686
431	393259084502801	INDIAN CK 900 FT DS SAND RUN RD NR CONTRERAS, OH	VI	55	39.54973	-84.84098
432	395301084511501	M FK E FK WW R 2500 FT US SR 227 NR MIDDLEBORO, IN	VI	55	39.88351	-84.85426
433	394527084541701	ELKHORN CK 5000 FT US USHWY 27 NR LOCUST GROVE, IN	VI	55	39.75750	-84.90459
434	394545084540201	ELKHORN CK 6600 FT US USHWY 27 NR LOCUST GROVE, IN	VI	55	39.76244	-84.90065
435	393450085061401	WILSON CK 700 FT DS SR 1 NR EVERTON, IN	VI	55	39.58044	-85.10384
436	392755085181001	BULL FK 2 MI US STIPPS HILL RD NR BUENA VISTA, IN	VI	55	39.46538	-85.30271
437	394550085073301	WHITEWATER R 2 ML DS E MILTON RD NR MILTON, IN	VI	55	39.76390	-85.12593
438	392638085063101	WHITEWATER R 2 MI DS USHWY 52 NR METAMORA, IN	IX	71	39.44398	-85.10865
439	392809085103801	WHITEWATER R 2 MI DS LAUREL RD NR LAUREL, IN	IX	71	39.46913	-85.17668
440	395821084572801	MORGAN CK 2600 FT US MEYERS RD NR WILLIAMSBURG, IN	VI	55	39.97276	-84.95754
441	395348085023701	GREENS FK 1200 FT US SR 38 AT GREENS FK, IN	VI	55	39.89619	-85.04318
442	392610084531501	E FK BIG CEDAR CK 2 MI US SR 252 NR PALESTINE, IN	VI	55	39.43597	-84.88743
443	394147085064301	WHITEWATER R 2900 FT DS CR 440N AT WATERLOO, IN	VI	55	39.69634	-85.11201
445	394540085031701	CENTRAL RUN 7100 FT US CHAPEL RD NR PINHOOK, IN	VI	55	39.76121	-85.05469

<sup>1</sup>The full IDEM site number has a prefix of INRB, for example INRB01-301.

<sup>2</sup>U.S. Environmental Protection Agency, 2000a, b.

<sup>3</sup>U.S. Environmental Protection Agency, 1977b.



**Appendix 4. Basin characteristics of the 38 algal-biomass sampling sites in the Whitewater River Basin, Indiana, May through September 2002.**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; R, River; RD, Road; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana; OH, Ohio; trib, tributary; USHWY, U.S. Highway; RMI, River mile]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
401	WHITEWATER R 400 FT DS HOOVER RD NR HAGERSTOWN, IN	64.2	86.9	12.5	0.2	0.4
402	RICHLAND CK 3800 FT US CR 100W NR CLIFTON, IN	17.8	98.2	1.8	0	.1
403	E FK WHITEWATER R 2700 FT US SR 44 NR LIBERTY, IN	607	78.2	15.2	5.5	1.1
404	SALT CK 1500 FT DS ENOCHSBURG RD AT ENOCHSBURG, IN	71.5	79.8	19.5	.5	.2
407	N BR GARRISON CK 200 FT DS CR 650S AT ALPINE, IN	29.2	51.5	48.4	.1	.1
408	FOUNTAIN CK AT WHITEWATER RD AT FOUNTAIN CITY, IN	17.6	92.6	7.1	0	.3
409	MORGAN CK 2000 FT DS SR 38 NR GREENS FK, IN	38.6	95.3	4.6	0	.1
410	BIG CEDAR CK 9400 FT US USHWY52 NR CEDAR GROVE, IN	57.7	86.9	12.7	0	.3
411	FALL CK 1000 FT DS CR 425W NR COLUMBIA, IN	8.4	88.3	11.7	0	0
412	PIPE CK 900 FT US PUMPHOUSE RD NR OAK FOREST, IN	93.2	66.8	31.5	1.0	.8
413	MARTINDALE CK 3900 FT US I-70 NR JACKSONBURG, IN	139	92.4	6.7	.2	.7
415	UNNAMED TRIB 1800 FT DS CR 175W NR ROSEBURG, IN	4.0	94.4	5.3	0	.3
416	W FK WHITEWATER R 2000 FT DS I-70 NR RICHMOND, IN	46.7	90.2	7.0	2.2	.6
417	LICK CK 2200 FT US ABINGTON PIKE NR RICHMOND, IN	40.4	68.2	8.9	22.1	.8
419	WHITEWATER R 1200 FT US CR 480S AT NULLTOWN, IN	1,352	88.0	9.3	1.7	1.0
420	WHITEWATER R 8200 FT DS USHWY 52 AT METAMORA, IN	1,944	79.2	18.5	1.4	.9
421	OSER CK 2700 FT DS SR 38 NR HAGERSTOWN, IN	4.5	95.9	3.0	.2	.9
422	WHITEWATER R 4 MI DS USHWY 52 AT YELLOW BANK, IN	2,134	77.5	20.3	1.3	.9
423	LITTLE FOUR MI CK 2 MI US SR 44 NR FAIRHAVEN, OH	49.0	96.4	3.1	.3	.3
425	CROWN CK 400 FT DS MCMINN RD AT CENTERVILLE, IN	6.9	81.7	4.1	14.2	.1
427	WHITEWATER R 7200 FT US CR 440N AT BEESONS, IN	798	89.7	8.2	1.1	1.0
428	FOUNTAIN CK 2800 FT US SEANEY RD NR BETHEL, IN	5.3	89.3	10.3	0	.3
429	NOLANDS FK 2600 FT DS MCCONAHA RD NR PINHOOK, IN	187	90.6	7.0	1.6	.8



**Appendix 4. Basin characteristics of the 38 algal-biomass sampling sites in the Whitewater River Basin, Indiana, May through September 2002.—Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; R, River; RD, Road; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana; OH, Ohio; trib, tributary; USHWY, U.S. Highway; RMI, River mile]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
430	SALT CK 2300 FT US CR 250W NR HAMBURG, IN	102	73.6	23.8	1.5	1.1
431	INDIAN CK 900 FT DS SAND RUN RD NR CONTRERAS, OH	45.4	96.7	2.5	.4	.4
432	M FK E FK WW R 2500 FT US SR 227 NR MIDDLEBORO, IN	107	91.4	7.6	.3	.7
433	ELKHORN CK 5000 FT US USHWY 27 NR LOCUST GROVE, IN	50.8	87.0	11.1	.3	1.6
434	ELKHORN CK 6600 FT US USHWY 27 NR LOCUST GROVE, IN	50.4	87.3	10.9	.3	1.5
435	WILSON CK 700 FT DS SR 1 NR EVERTON, IN	3.3	82.7	15.2	2.1	.1
436	BULL FK 2 MI US STIPPS HILL RD NR BUENA VISTA, IN	7.1	97.5	2.5	0	0
437	WHITEWATER R 2 ML DS E MILTON RD NR MILTON, IN	520	89.1	8.6	1.3	1.0
438	WHITEWATER R 2 MI DS USHWY 52 NR METAMORA, IN	1,949	79.1	18.7	1.4	1.0
439	WHITEWATER R 2 MI DS LAUREL RD NR LAUREL, IN	1,557	83.6	13.9	1.5	1.0
440	MORGAN CK 2600 FT US MEYERS RD NR WILLIAMSBURG, IN	4.2	95.7	4.1	0	.2
441	GREENS FK 1200 FT US SR 38 AT GREENS FK, IN	172	92.8	5.7	.7	.8
442	E FK BIG CEDAR CK 2 MI US SR 252 NR PALESTINE, IN	13.6	94.4	5.1	0	.5
443	WHITEWATER R 2900 FT DS CR 440N AT WATERLOO, IN	805	89.7	8.2	1.1	1.1
445	CENTERAL RUN 7100 FT US CHAPEL RD NR PINHOOK, IN	7.4	96.4	3.4	0	.2
	Minimum	3.3	51.5	1.8	0	0
	Mean	345.0	86.7	11.0	1.7	.6
	Median	50.6	89.2	8.4	.3	.6
	Maximum	2,134	98.2	48.4	22.1	1.6
	Standard deviation	613.5	9.9	9.1	4.2	.4

<sup>1</sup>The full IDEM site number has a prefix of INRB, for example INRB01-301.

<sup>2</sup>Land-use percentages were determined by the U.S. Geological Survey using the National Land Cover Dataset (U.S. Geological Survey, 2000).

**Appendix 5.** Location and ecoregion designations of the 38 algal-biomass sampling sites in the East Fork White River Basin, Indiana, May through September, 2002.

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; R, River; RD, Road; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana; OH, Ohio; trib, tributary; USHWY, U.S. Highway; RMI, River mile]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
501	395651085222501	BIG BLUE R 2000 FT N NORTH RD AT NEW CASTLE, IN	VI	55	39.94761	-85.37384
502	390637085350201	SAND CK 1450 FT N CR 850N NR BREWERSVILLE, IN	VI	55	39.11014	-85.58388
503	392348085315501	CLIFTY CK 840 FT N CR 400N NR ADAMS, IN	VI	55	39.39670	-85.53197
504	384632086094201	E FK WHITE R 1 RMI US MUSCATATUCK R NR MEDORA, IN	VI	55	38.77558	-86.16173
505	392221085483701	FLATROCK R 300 FT DS CR 150W NR FLATROCK, IN	VI	55	39.37244	-85.81015
506	385657086275601	LITTLE SALT CK 400 FT DS CR 650N NR COVEYVILLE, IN	IX	71	38.94904	-86.46553
508	384054086530301	BOGGS CK 1600 FT DS CR 15 NR LOOGOOTE, IN	IX	71	38.68172	-86.88416
509	394628085321301	BIG BLUE R 1400 FT W CR 450W NR KNIGHTSTOWN, IN	VI	55	39.77432	-85.53700
510	391917085520901	FLATROCK R 900 FT N CR 800N AT ST LOUIS CROSSING, IN	VI	55	39.32146	-85.86906
511	385539085431501	VERNON FK MUSC R 2700 FT E CR 400 S NR HAYDEN, IN	VI	55	38.92737	-85.72081
512	384810086284601	E FK WHITE R 1 MI N CR 500 S NR YOCKEY, IN	IX	71	38.80266	-86.47955
513	395149085263701	BIG BLUE R 1200 FT N CR 500S NR GREENSBORO, IN	VI	55	39.86362	-85.44368
515	385836086062401	LITTLE SALT CK 2700 FT S SR 258 AT FREETOWN, IN	IX	71	38.97669	-86.10655
516	383934086463201	BEAVER CK 900 FT S CR 44 AT IRONTON, IN	IX	71	38.65946	-86.77551
518	390659085383801	WYALOOSING CK 200 FT S 900N NR SARDINIA, IN	VI	55	39.11632	-85.64397
519	390745085273801	SUGAR CK 1000 FT W CR 1000N NR ZENAS, IN	VI	55	39.12909	-85.46048
521	392751085291801	LITTLE FLATROCK R 2700 FT W SR 3 NR MILROY, IN	VI	55	39.46429	-85.48840
522	385730086102801	S FK SALT CK 1200 FT N SR 58 NR KURTZ, IN	IX	71	38.95841	-86.17455
523	384717085320901	BIG CK 1 MI W CR 700W AT VOLGA, IN	VI	55	38.78793	-85.53588
524	383107086502501	E FK WHITE R 4000 FT W CR 400E NR THALES, IN	IX	71	38.51858	-86.84026

**Appendix 5. Location and ecoregion designations of the 38 algal-biomass sampling sites in the East Fork White River Basin, Indiana, May through September, 2002.—Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; R, River; RD, Road; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana; OH, Ohio; trib, tributary; USHWY, U.S. Highway; RMI, River mile]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
525	392508085545301	BIG BLUE R 2700 FT E CR 750W NR MT AUBURN, IN	VI	55	39.41886	-85.91475
526	384832086340901	E FK WHITE R 1300 FT W CR 450W NR COXTON, IN	IX	71	38.80884	-86.56921
527	384838085383401	BIG CK 900 FT E SR 3 NR DEPUTY, IN	VI	55	38.81067	-85.64281
528	382939087060901	BEAR CK 200 FT N CR 400N NR OTWELL, IN	IX	72	38.49412	-87.10251
530	384635086041401	MUSCATATUCK R 2600 FT N MT EDEN RD NR MILLPORT, IN	VI	55	38.77645	-86.07056
531	390939086202001	N FK SALT CK 2250 FT US SR 46 AT BELMONT, IN	IX	71	39.16073	-86.33886
532	384433086434501	E FK WHITE R 100 FT N WILLIAMS RD NR HURON, IN	IX	71	38.74239	-86.72917
533	393950085544601	SUGAR CK 1500 FT DS CR 1000N NR PLEASANT VIEW, IN	VI	55	39.66397	-85.91280
534	390028085365701	VERNON FK MUSC R 1150 FT US WWTF AT N VERNON, IN	VI	55	39.00767	-85.61584
535	391848085333801	FALL FK 650 FT N SR 3 AT EWINGTON, IN	VI	55	39.31332	-85.56055
536	384525086014401	MUSCATATUCK R 1200 FT E MT EDEN RD NR MILPORT, IN	VI	55	38.75708	-86.02883
537	393249085294401	FLATROCK R 500 FT DS CR 450S NR MILROY, IN	VI	55	39.54688	-85.49546
539	385607085325901	GRAHAM CK 300 FT S CR 350E AT WALNUT RIDGE, IN	VI	55	38.93529	-85.54985
542	392105085592401	BIG BLUE R 2400 FT W SR 31 AT EDINBURGH, IN	VI	55	39.35142	-85.99013
543	384858085525501	VERNON FK MUSC R 1800 FTE CR 800E NR RETREAT, IN	VI	55	38.81615	-85.88198
544	383726086202701	LOST R 100 FT N CR 450N NR ORLEANS, IN	IX	71	38.62390	-86.34069
545	392544085585801	SUGAR CK 2600 FTE CR 350S AT AMITY, IN	VI	55	39.42880	-85.98279
551	395221085483001	SUGAR CK 500 FT N CR 600N NR MAXWELL, IN	VI	55	39.87275	-85.80836

<sup>1</sup>The full IDEM site number has a prefix of INRB, for example INRB01-301.

<sup>2</sup>U.S. Environmental Protection Agency, 2000a, b.

<sup>3</sup>U.S. Environmental Protection Agency, 1977b.

**Appendix 6.** Basin characteristics of the 38 algal-biomass sampling sites in the East Fork White River Basin, Indiana, May through September 2002.

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; R, River; RD, Road; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana; OH, Ohio; trib, tributary; USHWY, U.S. Highway; RMI, River mile]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
501	BIG BLUE R 2000 FT N NORTH RD AT NEW CASTLE, IN	113	85.7	9.7	1.6	3.0
502	SAND CK 1450 FT N CR 850N NR BREWERSVILLE, IN	34	81.0	16.0	2.5	.5
503	CLIFTY CK 840 FT N CR 400N NR ADAMS, IN	145	96.0	3.4	.1	.4
504	E FK WHITE R 1 RMI US MUSCATATUCK R NR MEDORA, IN	6,662	85.3	10.5	2.8	1.3
505	FLATROCK R 300 FT DS CR 150W NR FLATROCK, IN	1,037	93.4	4.6	1.1	1.0
506	LITTLE SALT CK 400 FT DS CR 650N NR COVEYVILLE, IN	113	21.7	77.9	.3	.1
508	BOGGS CK 1600 FT DS CR 15 NR LOOGOOTE, IN	224	33.2	57.1	.6	9.2
509	BIG BLUE R 1400 FT W CR 450W NR KNIGHTSTOWN, IN	414	84.6	8.9	4.9	1.5
510	FLATROCK R 900 FT N CR 800N AT ST LOUIS CROSSING, IN	1,280	93.4	4.2	1.4	1.0
511	VERNON FK MUSC R 2700 FT E CR 400 S NR HAYDEN, IN	595	61.0	36.5	1.3	1.2
512	E FK WHITE R 1 MI N CR 500 S NR YOCKEY, IN	10,355	76.2	19.5	2.3	2.0
513	BIG BLUE R 1200 FT N CR 500S NR GREENSBORO, IN	176	78.3	10.5	8.6	2.6
515	LITTLE SALT CK 2700 FT S SR 258 AT FREETOWN, IN	28.8	39.1	58.9	.2	1.7
516	BEAVER CK 900 FT S CR 44 AT IRONTON, IN	179	22.4	76.6	.2	.8
518	WYALOOSING CK 200 FT S 900N NR SARDINIA, IN	62.1	89.1	9.9	.6	.4
519	SUGAR CK 1000 FT W CR 1000N NR ZENAS, IN	18.4	66.5	33.2	0	.3
521	LITTLE FLATROCK R 2700 FT W SR 3 NR MILROY, IN	120	96.5	2.5	.6	.4
522	S FK SALT CK 1200 FT N SR 58 NR KURTZ, IN	75.8	40.8	58.0	.5	.8
523	BIG CK 1 MI W CR 700W AT VOLGA, IN	215	43.8	44.3	1.2	10.7

**Appendix 6. Basin characteristics of the 38 algal-biomass sampling sites in the East Fork White River Basin, Indiana, May through September 2002. —Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; R, River; RD, Road; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana; OH, Ohio; trib, tributary; USHWY, U.S. Highway; RMI, River mile]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
524	E FK WHITE R 4000 FT W CR 400E NR THALES, IN	14,362	65.8	29.9	2.2	2.1
525	BIG BLUE R 2700 FT E CR 750W NR MT AUBURN, IN	1,480	89.6	6.1	3.0	1.3
526	E FK WHITE R 1300 FT W CR 450W NR COXTON, IN	12,196	69.3	26.0	2.5	2.2
527	BIG CK 900 FT E SR 3 NR DEPUTY, IN	415	54.2	37.6	1.4	6.8
528	BEAR CK 200 FT N CR 400N NR OTWELL, IN	12.1	93.7	6.3	0	0
530	MUSCATATUCK R 2600 FT N MT EDEN RD NR MILLPORT, IN	2,898	60.4	34.5	1.5	3.5
531	N FK SALT CK 2250 FT US SR 46 AT BELMONT, IN	278	14.5	83.6	.5	1.3
532	E FK WHITE R 100 FT N WILLIAMS RD NR HURON, IN	12,311	69.1	26.2	2.5	2.2
533	SUGAR CK 1500 FT DS CR 1000N NR PLEASANT VIEW, IN	327	92.5	4.4	2.2	.8
534	VERNON FK MUSC R 1150 FT US WWTF AT N VERNON, IN	284	70.5	28.0	.7	.8
535	FALL FK 650 FT N SR 3 AT EWINGTON, IN	9.3	98.4	.2	1.3	.1
536	MUSCATATUCK R 1200 FT E MT EDEN RD NR MILPORT, IN	2,799	61.4	33.4	1.6	3.6
537	FLATROCK R 500 FT DS CR 450S NR MILROY, IN	505	93.9	3.5	1.6	1.0
539	GRAHAM CK 300 FT S CR 350E AT WALNUT RIDGE, IN	195	48.2	44.7	.3	6.8
542	BIG BLUE R 2400 FT W SR 31 AT EDINBURGH, IN	1,520	89.5	6.2	2.9	1.4
543	VERNON FK MUSC R 1800 FT E CR 800E NR RETREAT, IN	993	63.9	32.2	1.9	2.0
544	LOST R 100 FT N CR 450N NR ORLEANS, IN	86.8	91.7	7.7	.1	.4

**Appendix 6. Basin characteristics of the 38 algal-biomass sampling sites in the East Fork White River Basin, Indiana, May through September 2002.—Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; R, River; RD, Road; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana; OH, Ohio; trib, tributary; USHWY, U.S. Highway; RMI, River mile]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
545	SUGAR CK 2600 FT E CR 350S AT AMITY, IN	891	91.3	4.0	4.0	.7
551	SUGAR CK 500 FT N CR 600N NR MAXWELL, IN	147	94.1	4.4	.6	.9
	Minimum	9.3	14.5	.2	0	0
	Mean	1,943.8	71.1	25.3	1.6	2.0
	Median	305.8	77.3	17.7	1.4	1.2
	Maximum	14,362	98.4	83.6	8.6	10.7
	Standard deviation	3,825.5	23.8	23.4	1.6	2.4

<sup>1</sup>The full IDEM site number has a prefix of INRB, for example INRB02-501.

<sup>2</sup> Land use percentages were determined by the USGS using the National Land Cover Dataset (U.S. Geological Survey, 2000).

**Appendix 7. Location and ecoregion designations of the 38 algal-biomass sampling sites in the Upper Wabash River Basin, Indiana, May through October 2003.**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; trib, tributary; CR, county road; R, River; SR, state route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; USHWY, U.S. Highway; IN, Indiana; OH, Ohio]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
601	403857085593501	PIPE CK 100 FT US PIPE CK AT SANTA FE, IN	VI	55	40.64950	-85.99200
602	401643084521501	HARSHMAN CK 0.9 MI US MISSISSINEWA R NR SALEM, IN	VI	55	40.27870	-84.87020
603	4048050863333701	GALBREATH DITCH 0.5 MI DS CR 200N NR LK CICOTT, IN	VII	56	40.80107	-86.56016
604	402554085305901	MISSISSINEWA R 0.8 MI US SR 26 NR FOWLERTON, IN	VI	55	40.43180	-85.51480
605	405236086495201	BIG MONON CK 0.5 MI US SR 16 NR MONON, IN	VI	54	40.87680	-86.83150
606	405243085564701	PAW PAW CK 0.3 MI US CR 800N NR ROANN, IN	VI	55	40.87859	-85.94648
607	401943086385101	S FK WILDCAT CK 0.6 MI US CR 800W NR MULBERRY, IN	VI	55	40.32850	-86.64740
608	410301086184501	MUD CK 0.3 MI US GRUBE DITCH NR PERSHING, IN	VII	56	41.04981	-86.31161
609	403712086593901	MEYERS DITCH 820 FT US I-65 NR BADGER GROVE, IN	VI	54	40.61974	-86.99414
610	410543085373101	CLEAR CK 980 FT US SPRING CK AT SOUTH WHITLEY, IN	VII	56	41.09500	-85.62430
611	404156086024501	LITTLE PIPE CK 900 FT DS CR 150E NR SOUTH PERU, IN	VI	55	40.69930	-86.04680
612	403633085115401	ROCK CK 770 FT US CR 900S NR PETROLEUM, IN	VI	55	40.60936	-85.19817
613	403542086305901	DEER CK 0.7 MI US MERIDIAN LINE RD NR CAMDEN, IN	VI	55	40.59506	-86.51631
614	405208085093701	EIGHTMILE CK 0.4 MI US SR 1 AT OSSIAN, IN	VI	55	40.86910	-85.16019
615	403603086325101	DEER CK 0.6 MI DS SR 75 AT CAMDEN, IN	VI	55	40.60070	-86.54740
616	411707085593601	EASTERDAY DITCH 0.3 MI DS CR 400N NR ATWOOD, IN	VII	56	41.28654	-85.99596
617	402612086094301	E FK LITTLE WILDCAT CK 880 FT US CR200W AT ALTO, IN	VI	55	40.43653	-86.16117
618	405346085595201	WILSON RHODES DITCH 0.6 MI US CR850N NR ROANN, IN	VII	56	40.89640	-85.99760
619	404912086080401	UNNAMED TRIB 1.2 MI US EEL R AT MEXICO, IN	VI	55	40.82060	-86.13430



**Appendix 7.** Location and ecoregion designations of the 38 algal-biomass sampling sites in the Upper Wabash River Basin, Indiana, May through October 2003.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; trib, tributary; CR, county road; R, River; SR, state route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; USHWY, U.S. Highway; IN, Indiana; OH, Ohio]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
621	405856086223001	MILL CK 600 FT US HINES DITCH NR MARSH TOWN, IN	VII	56	40.98213	-86.37508
622	410526085291501	STONY CK 720 FT US MERIDIAN RD AT PEABODY, IN	VII	56	41.09090	-85.48870
623	402423086423501	MID FK WILDCAT CK 0.4 MI DS HOG RUN AT PETTIT, IN	VI	55	40.40630	-86.71070
624	411753085493801	TIPPECANOE R 880 FT DS CR 100E NR ISLAND PARK, IN	VII	56	41.29765	-85.82738
625	403639086402301	WABASH R 1.9 MI US SR 39 NR DELPHI, IN	VI	55	40.61088	-86.67318
626	404739085210101	ROCK CK 0.4 MI US SR 3 NR MARKLE, IN	VI	55	40.79580	-85.35150
627	402135086211701	KILMORE CK 500 FT US CR 800E NR FOREST, IN	VI	55	40.35993	-86.35473
628	410048086350101	MILL CK 0.6 MI US TIPPECANOE R NR WINAMAC, IN	VI	55	41.01320	-86.58340
629	404248086341901	UNNAMED TRIB 0.8 MI US BURNETTS CK AT LOCKPORT, IN	VI	55	40.71320	-86.57180
630	404203085274901	DETAMORE DITCH 700 FT DS I-69 NR WARREN, IN	VI	55	40.70118	-85.46385
631	401517084495201	LITTLE MISSISSINEWA R 2.8 MI DS SR28 NR COSMOS, OH	VI	55	40.25505	-84.83130
632	411625085372301	UNNAMED TRIB 450 FT US GAFF DITCH NR ETNA, IN	VII	56	41.27390	-85.62304
633	402739085413701	DEER CK 0.25 MI US CR 100W NR WEAVER, IN	VI	55	40.46050	-85.69430
634	401401085413701	ELKHORN CK 0.25 MI US CR 500N NR FARMLAND, IN	VI	55	40.23280	-85.16620
635	405501086490201	BIG MONON CK 0.2 MI US BIG MONON DITCH NR MONON, IN	VI	54	40.91790	-86.81700
636	402425084574101	LITTLE SALAMONIE R 0.4 MI US CR 120S AT LIBER, IN	VI	55	40.40696	-84.96156
637	405617086260401	TRAVERS DITCH 560 FT DS CR1000W NR GRASS CREEK, IN	VII	56	40.93800	-86.43380
638	410106085191601	ABOITE CK 0.3 MI US USHWY 24 AT TIMBERCREST, IN	VI	55	41.01850	-85.32080
639	402710086510501	WILDCAT CK 150 FT US SR 25 AT LAFAYETTE, IN	VI	55	40.45283	-86.85122

<sup>1</sup> The full IDEM site number has a prefix of INRB, for example INRB03-601.

<sup>2</sup> U.S. Environmental Agency, 2000a,b.

<sup>3</sup> U.S. Environmental Protection Agency, 1997b.

**Appendix 8. Basin characteristics of the 38 algal-biomass sampling sites in the Upper Wabash River Basin, Indiana, May through October 2003.**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; trib, tributary; CR, county road; R, River; SR, state route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; USHWY, U.S. Highway; IN, Indiana; OH, Ohio]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
601	UNNAMED TRIB 100 FT US PIPE CK AT SANTA FE, IN	359.7	96.2	2.3	1.1	0.4
602	HARSHMAN CK 0.9 MI US MISSISSINEWA R NR SALEM, IN	33.6	95.7	2.8	.5	1.0
603	GALBREATH DITCH 0.5 MI DS CR 200N NR LK CICOTT, IN	6.1	73.5	25.2	.1	1.2
604	MISSISSINEWA R 0.8 MI US SR 26 NR FOWLERTON, IN	1,251.2	91.2	5.8	1.5	1.5
605	BIG MONON CK 0.5 MI US SR 16 NR MONON, IN	87.4	91.4	6.3	0	2.3
606	PAW PAW CK 0.3 MI US CR 800N NR ROANN, IN	93.8	94.7	4.2	.4	.7
607	S FK WILDCAT CK 0.6 MI US CR 800W NR MULBERRY, IN	460.1	94.8	1.6	2.5	1.1
608	MUD CK 0.3 MI US GRUBE DITCH NR PERSHING, IN	131.2	94.6	3.1	.6	1.7
609	MEYERS DITCH 820 FT US I-65 NR BADGER GROVE, IN	1.4	96.5	.4	3.0	.1
610	CLEAR CK 980 FT US SPRING CK AT SOUTH WHITLEY, IN	24.9	82.0	14.7	0	3.3
611	LITTLE PIPE CK 900 FT DS CR 150E NR SOUTH PERU, IN	28.4	93.9	5.2	0	.9
612	ROCK CK 770 FT US CR 900S NR PETROLEUM, IN	7.6	96.0	3.8	0	.2
613	DEER CK 0.7 MI US MERIDIAN LINE RD NR CAMDEN, IN	524.6	95.8	2.6	.7	.9
614	EIGHTMILE CK 0.4 MI US SR 1 AT OSSIAN, IN	64.2	96.1	3.2	.1	.6
615	DEER CK 0.6 MI DS SR 75 AT CAMDEN, IN	583.0	95.9	2.5	.7	.9
616	EASTERDAY DITCH 0.3 MIDS CR 400N NR ATWOOD, IN	14.7	88.4	8.7	.1	2.8
617	E FK LITTLE WILDCAT CK 880 FT US CR200W AT ALTO, IN	24.0	86.0	2.7	9.4	1.9
618	WILSON RHODES DITCH 0.6 MI US CR850N NR ROANN, IN	12.1	91.3	8.7	0	0
619	UNNAMED TRIB 1.2 MI US EEL R AT MEXICO, IN	4.2	92.2	6.8	0	1.0

**Appendix 8.** Basin characteristics of the 38 algal-biomass sampling sites in the Upper Wabash River Basin, Indiana, May through October 2003.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; trib, tributary; CR, county road; R, River; SR, state route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; USHWY, U.S. Highway; IN, Indiana; OH, Ohio]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
621	MILL CK 600 FT US HINES DITCH NR MARSHTOWN, IN	77.8	95.5	2.5	.5	1.5
622	STONY CK 720 FT US MERIDIAN RD AT PEABODY, IN	24.9	94.4	3.9	.6	1.2
623	MID FK WILDCAT CK 0.4 MI DS HOG RUN AT PETTIT, IN	289.1	97.1	1.7	.5	.7
624	TIPPECANOE R 880 FT DS CR 100E NR ISLAND PARK, IN	317.3	76.2	11.3	1.6	10.9
625	WABASH R 1.9 MI US SR 39 NR DELPHI, IN	10,652.1	88.2	7.7	1.9	2.2
626	ROCK CK 0.4 MI US SR 3 NR MARKLE, IN	240.8	96.3	3.1	.1	.5
627	KILMORE CK 500 FT US CR 800E NR FOREST, IN	120.2	97.9	0.7	0.6	0.8
628	MILL CK 0.6 MI US TIPPECANOE R NR WINAMAC, IN	233.2	96.0	2.4	.4	1.2
629	UNNAMED TRIB 0.8 MI US BURNETTS CK AT LOCKPORT, IN	8.0	87.7	10.6	0	1.7
630	DETAMORE DITCH 700 FT DS I-69 NR WARREN, IN	12.9	96.2	2.3	1.0	.5
631	LITTLE MISSISSINEWA R 2.8 MI DS SR28 NR COSMOS, OH	44.0	92.7	2.3	4.2	.8
632	UNNAMED TRIB 450 FT US GAFF DITCH NR ETNA, IN	3.2	96.2	1.0	0	2.8
633	DEER CK 0.25 MI US CR 100W NR WEAVER, IN	76.0	97.6	1.1	.2	1.1
634	ELKHORN CK 0.25 MI US CR 500N NR FARMLAND, IN	9.1	95.8	3.1	.2	.9
635	BIG MONON CK 0.2 MI US BIG MONON DITCH NR MONON, IN	8.7	96.0	3.4	0	.6
636	LITTLE SALAMONIE R 0.4 MI US CR 120S AT LIBER, IN	50.6	88.2	9.8	.1	1.9
637	TRAVERS DITCH 560 FT DS CR 1000W NR GRASS CREEK, IN	3.5	88.5	8.6	0	2.9

**Appendix 8.** Basin characteristics of the 38 algal-biomass sampling sites in the Upper Wabash River Basin, Indiana, May through October 2003.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; trib, tributary; CR, county road; R, River; SR, state route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; USHWY, U.S. Highway; IN, Indiana; OH, Ohio]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>				
			Agriculture	Forest	Urban	Other	
638	ABOITE CK 0.3 MI US USHWY 24 AT TIMBERCREST, IN	132.6	86.1	8.9	2.1	2.9	
639	WILDCAT CK 150 FT US SR 25 AT LAFAYETTE, IN	2,064.8	91.9	3.2	3.4	1.5	
	Minimum	1.4	73.5	.3	0	.1	
	Maximum	10,652.1	97.9	25.2	9.4	10.9	
	Mean	475.8	92.2	5.2	1.0	1.6	
	Median	57.4	94.7	3.2	.4	1.1	
	Standard deviation	1,740.1	5.7	4.8	1.8	1.8	

<sup>1</sup> The full IDEM site number has a prefix of INRB, for example INRB03-601.

<sup>2</sup> Land-use percentages were determined by the U.S. Geological Survey using the National Land Cover Dataset (U.S. Geological Survey, 2000).

**Appendix 9.** Location and ecoregion designations of the 45 algal-biomass sampling sites in the Kankakee River Basin, Indiana, June through October 2004.

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDP, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
701	412029086435701	KANAKEE R 1320 FT US SR39 NR HANNA IN	VI	54	41.34139	-86.73250
702	413242087254801	CADY MARSH D 720 FT DS OF BROAD ST AT GRIFFITH IN	VI	54	41.54500	-87.43000
703	410737087273101	LAWLER D 2900 FT DS OF N400W AT LAKE VILLAGE IN	VI	54	41.12694	-87.45861
705	411021087020901	WOLF CK 60 FT DS E1100N NR WHEATFIELD IN	VI	54	41.17250	-87.03583
706	412400086420601	KANAKEE R 3.89 MI DS OF W1200S NR HANNA IN	VI	54	41.40000	-86.70167
707	412122087035901	COBB D 3220 FT US OF W600S NR KOUTS IN	VI	54	41.35611	-87.06639
708	405002087233501	IROQUOIS R 3430 FT US OF S100W NR BROOK IN	VI	54	40.83389	-87.39306
709	411752087120701	UNNAMED TRIB 900 FT US OF USHWY231 NR HEBRON IN	VI	54	41.29778	-87.20194
710	412251086110301	YELLOW R 1700 FT US OF E 8TH ST NR BREMEN IN	VII	56	41.38083	-86.18417
711	411219087275101	SINGLETON D 350 FT DS OF USHWY41 NR SCHNEIDER IN	VI	54	41.20528	-87.46417
712	403952087271401	SUGAR CK 8120 FT DS OF N600W NR EARL PARK IN	VI	54	40.66444	-87.45389
713	405728087033201	RYAN D 4840 FT US OF S250W NR RENSSELAER IN	VI	54	40.95778	-87.05889
714	413841086391401	COLLINS D 3100 FT US OF SR2 NR LA PORTE IN	VII	56	41.64472	-86.65389
715	412118087182401	STONY RUN 60 FT US OF IOWA ST NR CROWN POINT IN	VI	54	41.35500	-87.30667
716	404940087182801	WEISS D 510 FT DS OF SR 55 NR BROOK IN	VI	54	40.82778	-87.30778
717	411619086501501	KANAKEE R 3890 FT DS OF S650W AT ENGLISH LAKE IN	VI	54	41.27194	-86.83750
718	411814086334801	EAGLE CK 150 FT DS OF N700E NR KNOX IN	VI	54	41.30389	-86.56333
719	411056087204401	KANAKEE R 1370 FT DS OF SR55 AT SHELBY IN	VI	54	41.18222	-87.34556
720	403551087282201	MINIER LATERAL 960 FT US S800W NR FREELAND PARK IN	VI	54	40.59750	-87.47278

**Appendix 9.** Location and ecoregion designations of the 45 algal-biomass sampling sites in the Kankakee River Basin, Indiana, June through October 2004.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDP, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
723	412247087081101	WOLF CK 6320 FT DS OF W300S NR KOUTS IN	VI	54	41.37972	-87.13639
724	405127087211401	IROQUOIS R 2150 FT US E LK KENOYER RD AT BROOK IN	VI	54	40.85750	-87.35389
725	411541087024601	KANAKEE R 4320 FT DS OF SR49 NR KOUTS IN	VI	54	41.26139	-87.04611
726	412017085591401	DOUSMAN D 7930 FT US OF N625W NR ETNA GREEN IN	VII	56	41.33806	-85.98722
727	405248087262301	CLARK D 1770 FT US OF S325W AT ADE IN	VI	54	40.88000	-87.43972
728	404335087232101	UNNAMED TRIB 4400 FT US OF W1800S NR KENTLAND IN	VI	54	40.72639	-87.38917
729	405552087102801	IROQUOIS R 5700 FT DS OF USHWY231 AT RENSSELAER IN	VI	54	40.93111	-87.17444
730	413328086141801	E BUNCH D 2480 FT DS OF NEW RD NR SOUTH BEND IN	VII	56	41.55778	-86.23833
731	412624087285201	WEST CK 700 FT US OF OLCOTT AV AT ST JOHN IN	VI	54	41.44000	-87.48111
732	405210087043401	HOWE D 850 FT DS OF SR 16 NR RENSSELAER IN	VI	54	40.86944	-87.07611
733	411556086513401	KANAKEE R 2 MI DS S650W NR ENGLISH LAKE IN	VI	54	41.26556	-86.85944
734	411635086265901	YELLOW R 2650 FT US OF S UPAS RD NR CULVER IN	VI	54	41.27639	-86.44972
735	411324087300401	WEST CK 3750 US OF W223RD AV NR SCHNEIDER IN	VI	54	41.22333	-87.50111
736	413216086262301	POTATO CK 1830 FT US SMILAX RD AT NORTH LIBERTY IN	VI	54	41.53778	-86.43972
737	411936087045301	COBB D 3000 FT US OF SR8 NR KOUTS IN	VI	54	41.32667	-87.08139
738	412759086453401	MILL CK 770 FT US OF LONG LANE NR UNION MILLS IN	VII	56	41.46639	-86.75944
739	412750086573301	W BR CROOKED CK 230 FT US E200N NR VALPARAISO IN	VI	54	41.46389	-86.95917
741	411514087054501	HODGE D 2230 FT US N300W NR WHEATFIELD IN	VI	54	41.25389	-87.09583
742	412211086145001	YELLOW R 3360 FT DS OF N JARRAH RD NR PLYMOUTH IN	VII	56	41.36972	-86.24722

**Appendix 9.** Location and ecoregion designations of the 45 algal-biomass sampling sites in the Kankakee River Basin, Indiana, June through October 2004.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
743	405732087275001	BEAVER CK 70 FT DS OF W275S AT MOROCCO IN	VI	54	40.95889	-87.46389
744	404652087100501	CARPENTER CK 475 FT DS OF W1600S AT REMINGTON IN	VI	54	40.78111	-87.16806
745	405341087100801	SLOUGH CK 80 FT DS OF S650W NR RENSSELAER IN	VI	54	40.89472	-87.16889
748	405335087075801	SLOUGH CK 1640 FT US OF S480W NR RENSSELAER IN	VI	54	40.89306	-87.13278
752	413225087220001	CADY MARSH D 1740FT DS CLEVELANDST AT MERRILLVILLE	VI	54	41.54028	-87.36667
753	405751087102001	UNNAMED TRIB 9600 FT US OF SR114 NR RENSSELAER IN	VI	54	40.96417	-87.17222
754	413237086251301	POTATO CK 2080 FT US OF SR23 AT NORTH LIBERTY IN	VI	54	41.54361	-86.42028

<sup>1</sup>The full IDEM site number has a prefix of INRB04, for example INRB04-701.

<sup>2</sup> U.S. Environmental Protection Agency, 1998a.

<sup>3</sup> U.S. Environmental Protection Agency, 2003.



**Appendix 10. Basin characteristics of the 45 algal-biomass sampling sites in the Kankakee River Basin, Indiana, June through October 2004.**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometers; FT, feet; US, upstream; trib, tributary; CR, county road; R, River; SR, state route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; USHWY, U.S. Highway; IN, Indiana; OH, Ohio]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
701	KANAKEE R 1320 FT US SR39 NR HANNA IN	1,690	78.3	12.3	7.0	2.4
702	CADY MARSH D 720 FT DS OF BROAD ST AT GRIFFITH IN	15.2	10.3	18.7	3.2	67.8
703	LAWLER D 2900 FT DS OF N400W AT LAKE VILLAGE IN	32.4	88.4	7.9	3.7	0
705	WOLF CK 60 FT DS E1100N NR WHEATFIELD IN	37.5	66.3	26.1	7.3	.3
706	KANAKEE R 3.89 MI DS OF W1200S NR HANNA IN	1,370	77.4	12.2	7.6	2.8
707	COBB D 3220 FT US OF W600S NR KOUTS IN	74.8	75.4	16.2	6.3	2.1
708	IROQUOIS R 3430 FT US OF S100W NR BROOK IN	1,370	88.3	7.0	4.0	.7
709	UNNAMED TRIB 900 FT US OF USHWY231 NR HEBRON IN	12.5	83.7	5.8	5.4	5.1
710	YELLOW R 1700 FT US OF E 8TH ST NR BREMEN IN	384	89.5	6.5	2.4	1.6
711	SINGLETON D 350 FT DS OF USHWY41 NR SCHNEIDER IN	346	79.1	8.9	7.3	4.7
712	SUGAR CK 8120 FT DS OF N600W NR EARL PARK IN	96.3	98.1	.8	.5	.6
713	RYAN D 4840 FT US OF S250W NR RENSSELAER IN	117	94.6	2.7	2.6	.1
714	COLLINS D 3100 FT US OF SR2 NR LA PORTE IN	11.5	70.0	19.3	10.0	.7
715	STONY RUN 60 FT US OF IOWA ST NR CROWN POINT IN	11.0	80.5	11.3	7.2	1.0
716	WEISS D 510 FT DS OF SR 55 NR BROOK IN	13.9	99.4	.5	.1	0
717	KANAKEE R 3890 FT DS OF S650W AT ENGLISH LAKE IN	323	80.1	11.5	6.3	2.0
718	EAGLE CK 150 FT DS OF N700E NR KNOX IN	86.4	63.0	28.8	7.7	.5
719	KANAKEE R 1370 FT DS OF SR55 AT SHELBY IN	4,600	80.7	11.2	6.2	1.9
720	MINIER LATERAL 960 FT US S800W NR FREELAND PARK IN	4.0	99.8	.1	0	0

**Appendix 10.** Basin characteristics of the 45 algal-biomass sampling sites in the Kankakee River Basin, Indiana, June through October 2004.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometers; FT, feet; US, upstream; trib, tributary; CR, county road; R, River; SR, state route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; USHWY, U.S. Highway; IN, Indiana; OH, Ohio]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
723	WOLF CK 6320 FT DS OF W300S NR KOUTS IN	21.9	57.0	26.7	11.5	4.8
724	IROQUOIS R 2150 FT US E LK KENOYER RD AT BROOK IN	1,220	87.4	7.7	4.3	.6
725	KANAKEE R 4320 FT DS OF SR49 NR KOUTS IN	3,610	80.5	11.3	6.3	1.9
726	DOUSMAN D 7930 FT US OF N625W NR ETNA GREEN IN	1.2	91.0	4.6	4.4	0
727	CLARK D 1770 FT US OF S325W AT ADE IN	28.6	97.4	1.6	1.0	0
728	UNNAMED TRIB 4400 FT US OF W1800S NR KENTLAND IN	1.9	100.0	0	0	0
729	IROQUOIS R 5700 FT DS OF USHWY231 AT RENNELAER IN	555	83.9	9.5	5.8	0.8
730	E BUNCH D 2480 FT DS OF NEW RD NR SOUTH BEND IN	3.4	83.5	13.3	3.1	.2
731	WEST CK 700 FT US OF OLCOTT AV AT ST JOHN IN	11.5	79.4	8.5	4.0	8.0
732	HOWE D 850 FT DS OF SR 16 NR RENNELAER IN	35.7	88.9	8.9	2.2	0
733	KANAKEE R 2 MI DS S650W NR ENGLISH LAKE IN	3,260	80.1	11.6	6.3	2.0
734	YELLOW R 2650 FT US OF S UPAS RD NR CULVER IN	977	88.7	6.4	3.2	1.8
735	WEST CK 3750 US OF W223RD AV NR SCHNEIDER IN	140	76.2	12.8	6.6	4.5
736	POTATO CK 1830 FT US SMILAX RD AT NORTH LIBERTY IN	74.4	79.2	15.1	4.4	1.2
737	COBB D 3000 FT US OF SR8 NR KOUTS IN	81.3	77.3	14.9	5.8	1.9
738	MILL CK 770 FT US OF LONG LANE NR UNION MILLS IN	75.2	79.5	12.6	7.2	.8
739	W BR CROOKED CK 230 FT US E200N NR VALPARAISO IN	39.7	67.8	15.2	8.7	8.4
741	HODGE D 2230 FT US N300W NR WHEATFIELD IN	7.0	83.7	10.6	5.5	.2
742	YELLOW R 3360 FT DS OF N JARRAH RD NR PLYMOUTH IN	671	90.9	5.6	2.4	1.0

**Appendix 10.** Basin characteristics of the 45 algal-biomass sampling sites in the Kankakee River Basin, Indiana, June through October 2004.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometers; FT, feet; US, upstream; trib, tributary; CR, county road; R, River; SR, state route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; USHWY, U.S. Highway; IN, Indiana; OH, Ohio]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>				
			Agriculture	Forest	Urban	Other	
743	BEAVER CK 70 FT DS OF W275S AT MOROCCO IN	127	86.2	10.6	2.8	.5	
744	CARPENTER CK 475 FT DS OF W1600S AT REMINGTON IN	60.8	95.8	1.1	1.1	2.0	
745	SLOUGH CK 80 FT DS OF S650W NR RENSSELAER IN	220	88.9	7.9	3.1	.1	
748	SLOUGH CK 1640 FT US OF S480W NR RENSSELAER IN	202	89.1	7.7	3.1	.2	
752	CADY MARSH D 1740FT DS CLEVELANDST AT MERRILLVILLE	2.8	7.6	14.0	2.4	76.0	
753	UNNAMED TRIB 9600 FT US OF SR114 NR RENSSELAER IN	0.4	98.4	.7	.9	0	
754	POTATO CK 2080 FT US OF SR23 AT NORTH LIBERTY IN	44.7	73.7	19.7	6.2	.4	
	Minimum	0.4	7.6	0	0	0	
	Mean	490	80.3	10.4	4.6	4.7	
	Median	74.8	83.5	10.6	4.4	.8	
	Maximum	4,600	100.0	28.8	11.5	76.0	
	Standard deviation	1,000	18.5	6.9	2.7	14.8	

<sup>1</sup> The full IDEM site number has a prefix of INRB04, for example INRB04-701.

<sup>2</sup> Land-use percentages were determined by the U.S. Geological Survey using the National Land Cover Dataset (U.S. Geological Survey, 2000).

**Appendix 11. Location and ecoregion designations of the 44 algal-biomass sampling sites in the Lower Wabash River Basin, Indiana, June through October 2004.**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
803	395422087202501	JIM BRANCH 900 FT DS OF N500W NR KINGMAN IN	IX	72	39.90611	-87.34028
804	391036087193501	W FK BUSSERON CK 4320 FT DS OF SR48 NR HYMERA IN	IX	72	39.17667	-87.32639
805	394017087302701	BROUILLETS CK 3760 FT US OF SR163 AT BLANFORD IN	VI	54	39.67139	-87.50750
807	401447086335301	LYE CK 1870 FT US OF 350W NR FRANKFORT IN	VI	55	40.24639	-86.56472
808	385709087190101	MARLA CK 500 FT US OF CR 500E NR CARLISLE IN	IX	72	38.95250	-87.31694
810	400204087175301	PRAIRIE CK 1000 FT US OF S170W NR YEDDO IN	VI	55	40.03444	-87.29806
811	403707087014901	BIG PINE CK 315 FT US USHWY 231 NR OTTERBEIN IN	VI	54	40.61861	-87.03028
812	380500087555301	HAWTHORNE CK 2170 FT DS OLD SAND RD AT NEW HARMONY	IX	72	38.08333	-87.93139
813	393532087103601	N FK SULPHER CK 320FT DS N ROCKRUNCHURCHRD DIAMOND	IX	72	39.59222	-87.17667
814	392415087260301	HONEY CK 1 MI DS OF RIGNEY DR NR TERRE HAUTE IN	IX	72	39.40417	-87.43417
815	400753086324501	SPRING CK 6000 FT DS NORTH RD AT GARDEN PARK IN	VI	55	40.13139	-86.54583
817	395117086531201	RACCOON CK 2900 FT US OF USHWY 231 AT RACCOON IN	VI	55	39.85472	-86.88667
819	395506087143101	W PRONG GREEN CK 1030 FT DS USHWY41 NR KINGMAN IN	VI	55	39.91833	-87.24194
820	375936087434901	S FK BIG CK 1500FT US WILDEMAN RD AT ST PHILLIP IN	IX	72	37.99333	-87.73028
821	394256087260001	UNNAMED TRIB 600 FT US OF E1150S NR CLINTON IN	VI	54	39.71556	-87.43333
822	400258086542101	SUGAR CK 500 FT US LAYFAYETTE AV AT CRAWFORDSVILLE	VI	55	40.04944	-86.90583
823	403034086504401	BURNETT CK 160 FT US NORTHEAST RD AT BATTLE GROUND	VI	55	40.50944	-86.84556
824	383357087361701	SWAN POND D 790FT DS S6THSTRD NR STFRANCISVILLE IL	IX	72	38.56583	-87.60472
825	393411087143101	N FK SULPHER CK 450 FT US N BALDWIN ST AT FONTANET	IX	72	39.56972	-87.24194

**Appendix 11.** Location and ecoregion designations of the 44 algal-biomass sampling sites in the Lower Wabash River Basin, Indiana, June through October 2004.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
826	402248087290801	JORDAN CK 4125 FT DS OF N800W NR TAB IN	VI	54	40.38000	-87.48556
827	401533086201701	SCOTT WINCOOP D 230 FT DS 900E NR HILLISBURG IN	VI	55	40.25917	-86.33806
828	384046087322101	WABASH R 1400 FT DS OF USHWY 50BUS AT VINCENNES IN	IX	72	38.67944	-87.53917
829	393931087174801	ROCK RUN 1900 FT DS OF S325W NR ROSEDALE IN	IX	72	39.65861	-87.29667
830	391444087185101	BUSSERON CK 600 FT US CR 1100N NR FARMERSBURG IN	IX	72	39.24556	-87.31417
832	381003087510301	UNNAMED TRIB 2900FT US NEWHARMONYRDSTEWARTSVILLE	IX	72	38.16750	-87.85083
833	400340086523301	LITTLE SUGAR CK 875 FT DS N175E AT CRAWFORDSVILLE	VI	55	40.06111	-86.87583
834	402122087190901	BIG PINE CK 2300 FT DS OF W300N NR CARBONDALE IN	VI	55	40.35611	-87.31917
835	394417087224101	WABASH R 3.85 MIDS OF USHWY36 NR MONTEZUMA IN	IX	72	39.73806	-87.37806
836	375434088010601	WABASH R 2.72 MI DS OF SR62 NR MT VERNON IN	IX	72	37.90944	-88.01833
837	393703087225001	WABASH R 10.2 MI US OF SR63 NR CLINTON IN	IX	72	39.61750	-87.38056
838	400850086474801	LYE CK 2000 FT US OF CR 700 NR DARLINGTON IN	VI	55	40.14722	-86.79667
839	402354086535901	UNNAMED TRIB 1550 FT DS USHWY 231 AT LAFAYETTE IN	VI	55	40.39833	-86.79667
841	394855087025501	S FK LITTLE RACCOON CK 200FT DS N1000E NR MILLIGAN	VI	55	39.81528	-87.04861
842	400252087255101	WABASH R 830 FT DS OF SR32 AT PERRYVILLE IN	IX	72	40.04778	-87.43083
843	403351087084501	LITTLE PINE CK 3000 FT US OF CR 300S NR OXFORD IN	VI	54	40.56417	-87.14583
844	385114087320601	WABASH R 13.6 MI US OF USHWY50 NR RUSSELLVILLE IN	IX	72	38.85389	-87.53500
845	393948087045101	ROCKY FORK CK 125FT DS GREENCASTLE RD NR MANSFIELD	IX	72	39.66333	-87.08083
846	391647087363201	WABASH R 21.2 MI DS OF I-70 AT DARWIN IL	IX	72	39.27972	-87.60889

**Appendix 11. Location and ecoregion designations of the 44 algal-biomass sampling sites in the Lower Wabash River Basin, Indiana, June through October 2004.—Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
847	401042086245501	MUD CK 670 FT DS OF N 136TH ST NR KIRKLIN IN	VI	55	40.17833	-86.41528
848	380835087552901	WABASH R 6850 FT US OF SR14 AT NEW HARMONY IN	IX	72	38.14306	-87.92472
849	395618087020101	INDIAN CK 280 FT DS OF 700W NR BROWNS VALLEY IN	VI	55	39.93833	-87.03361
850	400946087080001	TURKEY RUN 1450 FT DS OF N700E AT MELLOTT IN	VI	55	40.16278	-87.13333
851	395838086534401	OFFIELD CK 2480 FT US USHWY 231 NR CRAWFORDSVILLE	VI	55	39.97722	-86.89556
852	400044087301201	COAL BRANCH 1125 FT DS OF W900N NR EUGENE IN	IX	72	40.01222	-87.50333

<sup>1</sup> The full IDEM site number has a prefix of INRB04, for example INRB04-801.

<sup>2</sup> U.S. Environmental Protection Agency, 1998a.

<sup>3</sup> U.S. Environmental Protection Agency, 1998b.

**Appendix 12.** Basin characteristics of the 44 algal-biomass sampling sites in the Lower Wabash River Basin, Indiana, June through October 2004.

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana].

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
803	JIM BRANCH 900 FT DS OF N500W NR KINGMAN IN	5.8	72.2	24.3	3.4	0.2
804	W FK BUSSEYON CK 4320 FT DS OF SR48 NR HYMERA IN	39.3	60.4	30.2	8.0	1.5
805	BROUILLETS CK 3760 FT US OF SR163 AT BLANFORD IN	692	92.9	4.7	1.8	.6
807	LYE CK 1870 FT US OF 350W NR FRANKFORT IN	19.6	99.8	.1	.1	0
808	MARLA CK 500 FT US OF CR 500E NR CARLSLE IN	6.0	64.5	35.3	.2	0
810	PRAIRIE CK 1000 FT US OF S170W NR YEDDO IN	34.8	92.1	5.6	2.3	0
811	BIG PINE CK 315 FT US USHWY 231 NR OTTERBEIN IN	5.2	99.6	.3	.1	0
812	HAWTHORNE CK 2170 FT DS OLD SAND RD AT NEW HARMONY	3.7	90.7	8.3	.7	.3
813	N FK SULPHER CK 320FT DS N ROCKRUNCHURCHRD DIAMOND	43.1	51.1	44.9	3.5	.4
814	HONEY CK 1 MI DS OF RIGNEY DR NR TERRE HAUTE IN	186	58.2	28.1	10.3	3.3
815	SPRING CK 6000 FT DS NORTH RD AT GARDEN PARK IN	30.7	97.9	1.0	.6	.6
817	RACCOON CK 2900 FT US OF USHWY 231 AT RACCOON IN	323	96.9	1.9	.4	.9
819	W PRONG GREEN CK 1030 FT DS USHWY41 NR KINGMAN IN	6.8	63.5	30.1	6.4	0
820	S FK BIG CK 1500FT US WILDEMAN RD AT ST PHILLIP IN	48.8	70.1	23.1	1.6	5.2
821	UNNAMED TRIB 600 FT US OF E1150S NR CLINTON IN	1.1	73.8	24.9	1.1	.2
822	SUGAR CK 500 FT US LAYFAYETTE AV AT CRAWFORDSVILLE	1,330	95.9	1.6	1.0	1.5
823	BURNETT CK 160 FT US NORTHEAST RD AT BATTLE GROUND	133	87.3	7.7	2.7	2.4
824	SWAN POND D 790FT DS S6THSTRD NR STFRANCISVILLE IL	58.0	83.7	3.1	2.7	10.4
825	N FK SULPHER CK 450 FT US N BALDWIN ST AT FONTANET	87.0	50.1	45.6	3.9	.4



**Appendix 12.** Basin characteristics of the 44 algal-biomass sampling sites in the Lower Wabash River Basin, Indiana, June through October 2004.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana].

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
826	JORDAN CK 4125 FT DS OF N800W NR TAB IN	68.1	99.1	.5	.3	.0
827	SCOTT WINCOOP D 230 FT DS 900E NR HILLISBURG IN	11.7	99.1	.2	0	.7
828	WABASH R 1400 FT DS OF USHWY50BUS AT VINCENNES IN	35,700	84.9	9.7	3.5	1.9
829	ROCK RUN 1900 FT DS OF S325W NR ROSEDALE IN	40.6	54.3	38.2	5.8	1.7
830	BUSSERON CK 600 FT US CR 1100N NR FARMERSBURG IN	24.2	80.2	17.7	1.6	.4
832	UNNAMED TRIB 2900FT US NEWHARMONYRDSTEWARTSVILLE	11.0	89.2	10.4	.2	.2
833	LITTLE SUGAR CK 875 FT DS N175E AT CRAWFORDSVILLE	237	96.6	1.9	0.9	0.6
834	BIG PINE CK 2300 FT DS OF W300N NR CARBONDALE IN	782	93.2	4.6	1.7	.5
835	WABASH R 3.85 MI DS OF USHWY36 NR MONTEZUMA IN	30,300	87.2	8.2	2.8	1.8
836	WABASH R 2.72 MI DS OF SR62 NR MT VERNON IN	76,800	78.2	15.9	3.2	2.7
837	WABASH R 10.2 MI US OF SR63 NR CLINTON IN	30,500	87.1	8.2	2.9	1.8
838	LYE CK 2000 FT US OF CR 700 NR DARLINGTON IN	191	98.6	.5	.7	.2
839	UNNAMED TRIB 1550 FT DS USHWY 231 AT LAFAYETTE IN	11.2	20.2	7.0	3.4	69.3
841	S FK LITTLE RACCOON CK 200FT DS N1000E NR MILLIGAN	46.1	93.0	5.2	.8	1.0
842	WABASH R 830 FT DS OF SR32 AT PERRYVILLE IN	21,500	88.1	7.2	2.9	1.9
843	LITTLE PINE CK 3000 FT US OF CR 300S NR OXFORD IN	39.3	99.0	.6	.4	0
844	WABASH R 13.6 MI US OF USHWY50 NR RUSSELLVILLE IN	35,200	84.9	9.7	3.5	1.9
845	ROCKY FORK CK 125FT DS GREENCASTLE RD NR MANSFIELD	54.9	54.9	44.5	.6	0
846	WABASH R 21.2 MI DS OF I-70 AT DARWIN IL	33,100	85.8	9.1	3.1	1.9

**Appendix 12. Basin characteristics of the 44 algal-biomass sampling sites in the Lower Wabash River Basin, Indiana, June through October 2004.—Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana].

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
847	MUD CK 670 FT DS OF N 136TH ST NR KIRKLIN IN	67.7	98.0	1.1	.7	.1
848	WABASH R 6850 FT US OF SR14 AT NEW HARMONY IN	75,800	78.2	16.0	3.2	2.7
849	INDIAN CK 280 FT DS OF 700W NR BROWNS VALLEY IN	58.7	91.3	8.4	.3	0
850	TURKEY RUN 1450 FT DS OF N700E AT MELLOTT IN	29.5	96.7	1.9	1.0	.4
851	OFFIELD CK 2480 FT US USHWY 231 NR CRAWFORDSVILLE	20.1	95.2	4.6	.2	0
852	COAL BRANCH 1125 FT DS OF W900N NR EUGENE IN	37.7	86.7	9.8	3.1	.3
	Minimum	1.1	20.2	.1	0	0
	Mean	7,810	82.3	12.8	2.2	2.7
	Median	51.9	87.3	8.2	1.7	.6
	Maximum	76,800	99.8	45.6	10.3	69.3
	Standard deviation	18,600	17.7	13.5	2.2	10.4

<sup>1</sup> The full IDEM site number has a prefix of INRB04, for example INRB04-801.

<sup>2</sup> Land-use percentages were determined by the U.S. Geological Survey using the National Land Cover Dataset (U.S. Geological Survey, 2000).

**Appendix 13.** Location and ecoregion designations of the 42 algal-biomass sampling sites in the Great Lakes Tributaries, Indiana, May through October 2005.

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
001	413440085131801	UNNAMED TRIB 1500FT US CR 425 S AT STROH IN	VII	56	41.57778	-85.22167
003	412715086020901	BERLIN COURT DITCH 2000FT DS CR 52 AT NAPPANEE IN	VII	56	41.45417	-86.03583
004	404711084573601	BLUHM DITCH 930 FT DS CR 300 N AT DECATUR IN	VI	55	40.78639	-84.96000
005	413739084493001	W BR FISH CK 1050 FT DS OF USHWY 20 AT METZ IN	VII	56	41.62750	-84.82500
007	411922085283701	CARROL CREEK 300 FT DS SR 33 AT WOLF LAKE IN	VII	56	41.32278	-85.47694
008	405643085050601	ST MARYS RIVER 3200FT DS HOAGLAND ROAD AT POE IN	VI	55	40.94528	-85.08500
009	411545084562601	ST JOSEPH RIVER 800 FT US CUBA RD NR GRABILL IN	VI	55	41.26250	-84.94056
011	412501085521701	TURKEY CREEK 2700 FT DS CR 1250 N NR MILFORD IN	VII	56	41.41694	-85.87139
014	413404087112601	WILLOW CREEK 3800 FT US MULBERRY AV AT PORTAGE IN	VI	54	41.56778	-87.19056
016	411059084521001	BLACK CK 20 FT DS SCHAEFFER ROAD NEAR HARLAN IN	VI	57	41.18306	-84.86944
018	413836085385001	LITTLE ELKHART R 200FT US CR 1150 W NR MIDDLEBURY	VII	56	41.64333	-85.64722
019	412614085203201	GRETZINGER D 1250FT US CR 600 N NR KENDALLVILLE IN	VII	56	41.43722	-85.34222
023	412805085355901	ELKHART RIVER 3900 FT DS SR 5 AT LIGONIER IN	VII	56	41.46806	-85.59972
024	405814084512701	FLATROCK CREEK 2100FT DS CR 101 AT MONROEVILLE IN	VI	56	40.97056	-84.85750
026	413856086032001	BAUGO CREEK 4100 FT US ASH ROAD AT OSCEOLA IN	VII	56	41.64889	-86.05556
027	412407085540401	OMAR-NEFF DITCH 2500FT DS CR 320 W NR HASTINGS IN	VII	56	41.40194	-85.90111
028	411529085075201	CEDAR CK 3000 FT US COLDWATER RD NR HUNTERTOWN IN	VI	55	41.25806	-85.13111
029	414137085182601	PIGEON RIVER 2400 FT US CR 600 EAST NEAR MONGO IN	VII	56	41.69361	-85.30722
030	412750087140001	DEEP RIVER 3600FT DS RANDOLPH ST AT DEEP RIVER IN	VI	54	41.46389	-87.23333

**Appendix 13.** Location and ecoregion designations of the 42 algal-biomass sampling sites in the Great Lakes Tributaries, Indiana, May through October 2005.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDP, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
034	413501085463801	ROCK RUN CREEK 2600 FT US CR 34 NEAR GOSHEN IN	VII	56	41.58361	-85.77722
036	404111084595701	FUCH DITCH 4000 FT US CR 400 S NR BERNE IN	VI	55	40.68639	-84.99917
038	413440086081301	GRIMES DITCH 250FT DS ELM ROAD NEAR MISHAWAKA IN	VII	56	41.57778	-86.13694
039	413125085404001	STONY CREEK 1750 FT US CR 42 AT MILLERSBURG IN	VII	56	41.52361	-85.67778
041	412847084581701	UNNAMED TRIB 1 MI US SR 427 NR TAYLOR CORNER IN	VII	56	41.47972	-84.97139
042	414143085584801	CHRISTIANA CREEK 1300FT US N MAIN ST AT ELKHART IN	VII	56	41.69528	-85.98000
044	410613085094701	LOWTHER NEUHAUS D 400FT DS GOSHEN RD AT FORT WAYNE	VI	55	41.10361	-85.16306
045	414257085253901	PIGEON RIVER 1600 FEET DS SR 9 AT HOWE IN	VII	56	41.71583	-85.42750
047	414224086461401	E BR TRAIL CK 1830FT US CR400 W AT SPRINGFIELD IN	VII	56	41.70667	-86.77056
050	414439085450001	UNNAMED TRIB 1800 FT DS CR 4 AT VISTULA IN	VII	56	41.74417	-85.75000
051	412851085081501	UNNAMED TRIB 1700 FT DS CR 12 AT FAIRFIELD CENTER	VII	56	41.48083	-85.13750
052	414046086493201	UNNAMED TRIB 20FT US I-94 AT ORCHARD HIGHLANDS IN	VII	56	41.67944	-86.82556
053	414426085332901	PIGEON RIVER 400 FT DS N CR 675 WEST AT SCOTT IN	VII	56	41.74056	-85.55806
056	413939086080901	ELLER DITCH 600 FT US SR 933 AT MISHAWAKA IN	VII	56	41.66083	-86.13583
057	413040085585801	DAVIDHIZER DITCH 20 FT DS CR 7 NEAR SOUTHWEST IN	VII	56	41.51111	-85.98278
059	411439084582801	ST JOSEPH RIVER 830 FT DS VANZILA RD AT HURSH IN	VI	55	41.24417	-84.97444
060	414259085443301	LITTLE ELKHART R 1.2MI DS CR37 AT BONNEYVILLE MILLS	VII	56	41.71639	-85.74250
061	412718085502501	KIEFFER D 20FT US OLD STATE RD NR MILFORD JUNCTION	VII	56	41.45500	-85.84028
062	410442085051201	MAUMEE R 220 FT DS OF COLISEUM BLVD AT FT WAYNE IN	VI	55	41.07833	-85.08667

**Appendix 13.** Location and ecoregion designations of the 42 algal-biomass sampling sites in the Great Lakes Tributaries, Indiana, May through October 2005.—Continued

IDEEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
065	412537085392101	CROMWELL D 600FT DS CR1000 E NR ENCHANTED HILLS IN	VII	56	41.42694	-85.65583
066	405341085002701	ST MARYS RIVER 20FT DS CR 350 W NR MIDDLETOWN IN	VI	55	40.89472	-85.00750
068	414215085525201	ST JOSEPH RIVER 2300 FT US CR 17 AT ELKHART IN	VII	56	41.70417	-85.88111
069	411556085081301	LITTLE CEDAR CK 1520 FT DS SR 327 NR HUNTERTOWN IN	VI	55	41.26556	-85.13694

<sup>1</sup> The full IDEM site number has a prefix of INRB05, for example INRB05-001.

<sup>2</sup> U.S. Environmental Protection Agency, 1998a.

<sup>3</sup> U.S. Environmental Protection Agency, 2003.

**Appendix 14. Basin characteristics of the 42 algal-biomass sampling sites in the Great Lakes Tributaries, Indiana, May through October 2005.**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
001	UNNAMED TRIB 1500FT US CR 425 S AT STROH IN	45.3	73.4	14.0	12.1	0.5
003	BERLIN COURT DITCH 2000FT DS CR 52 AT NAPPANEE IN	3.4	93.0	4.3	2.7	0
004	BLUHM DITCH 930 FT DS CR 300 N AT DECATUR IN	13.3	96.5	3.4	.1	0
005	W BR FISH CK 1050 FT DS OF USHWY 20 AT METZ IN	27.8	65.6	28.0	5.5	.9
007	CARROL CREEK 300 FT DS SR 33 AT WOLF LAKE IN	45.0	79.1	9.8	10.2	1.0
008	ST MARYS RIVER 3200FT DS HOAGLAND ROAD AT POE IN	1,790	91.9	6.1	.5	1.4
009	ST JOSEPH RIVER 800 FT US CUBA RD NR GRABILL IN	1,880	79.9	14.6	4.5	1.0
011	TURKEY CREEK 2700 FT DS CR 1250 N NR MILFORD IN	220	73.4	9.6	14.0	2.9
014	WILLOW CREEK 3800 FT US MULBERRY AV AT PORTAGE IN	14.2	62.8	9.9	2.0	25.2
016	BLACK CK 20 FT DS SCHAEFFER ROAD NEAR HARLAN IN	32.1	93.5	3.5	.4	2.6
018	LITTLE ELKHART R 200FT US CR 1150 W NR MIDDLEBURY	154	93.0	4.9	1.4	.7
019	GRETZINGER D 1250FT US CR 600 N NR KENDALLVILLE IN	15.8	85.6	7.6	6.3	.5
023	ELKHART RIVER 3900 FT DS SR 5 AT LIGONIER IN	752	77.4	10.3	10.2	2.0
024	FLATROCK CREEK 2100FT DS CR 101 AT MONROEVILLE IN	19.5	96.5	3.0	.1	.4
026	BAUGO CREEK 4100 FT US ASH ROAD AT OSCEOLA IN	198	91.6	5.3	1.7	1.4
027	OMAR-NEFF DITCH 2500FT DS CR 320 W NR HASTINGS IN	22.3	97.9	1.7	.4	0
028	CEDAR CK 3000 FT US COLDWATER RD NR HUNTERTOWN IN	407	85.8	8.4	3.1	2.7
029	PIGEON RIVER 2400 FT US CR 600 EAST NEAR MONGO IN	571	78.5	12.3	8.0	1.2
030	DEEP RIVER 3600FT DS RANDOLPH ST AT DEEP RIVER IN	157	65.8	14.7	9.4	10.2

**Appendix 14.** Basin characteristics of the 42 algal-biomass sampling sites in the Great Lakes Tributaries, Indiana, May through October 2005.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; INDP, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
034	ROCK RUN CREEK 2600 FT US CR 34 NEAR GOSHEN IN	28.6	92.9	6.3	.6	.2
036	FUCH DITCH 4000 FT US CR 400 S NR BERNE IN	1.8	98.0	1.9	.1	0
038	GRIMES DITCH 250FT DS ELM ROAD NEAR MISHAWAKA IN	23.8	93.0	5.5	1.4	.2
039	STONY CREEK 1750 FT US CR 42 AT MILLERSBURG IN	40.9	91.3	5.5	3.1	.1
041	UNNAMED TRIB 1 MI US SR 427 NR TAYLOR CORNER IN	.8	92.6	7.2	.2	0
042	CHRISTIANA CREEK 1300FT US N MAIN ST AT ELKHART IN	304	61.9	21.8	14.4	1.9
044	LOWTHER NEUHAUS D 400FT DS GOSHEN RD AT FORT WAYNE	12.3	58.1	12.6	2.7	26.5
045	PIGEON RIVER 1600 FEET DS SR 9 AT HOWE IN	735	78.3	12.4	8.1	1.2
047	E BR TRAIL CK 1830FT US CR400 W AT SPRINGFIELD IN	13.3	30.9	50.5	15.6	3.0
050	UNNAMED TRIB 1800 FT DS CR 4 AT VISTULA IN	5.3	69.1	22.4	5.6	2.9
051	UNNAMED TRIB 1700 FT DS CR 12 AT FAIRFIELD CENTER	11.8	89.8	8.6	1.6	0
052	UNNAMED TRIB 20FT US I-94 AT ORCHARD HIGHLANDS IN	1.4	11.5	59.0	13.4	16.2
053	PIGEON RIVER 400 FT DS N CR 675 WEST AT SCOTT IN	871	79.3	11.8	7.8	1.1
056	ELLER DITCH 600 FT US SR 933 AT MISHAWAKA IN	19.2	84.7	8.0	1.8	5.4
057	DAVIDHIZER DITCH 20 FT DS CR 7 NEAR SOUTHWEST IN	3.5	97.9	1.7	.4	0
059	ST JOSEPH RIVER 830 FT DS VANZILA RD AT HURSH IN	1,900	80.0	14.6	4.5	.9
060	LITTLE ELKHART R 1.2MI DS CR37 AT BONNEYVILLE MILLS	312	90.4	6.2	2.2	1.3
061	KIEFFER D 20FT US OLD STATE RD NR MILFORD JUNCTION	12.2	89.7	7.8	2.3	.2
062	MAUMEE R 220 FT DS OF COLISEUM BLVD AT FT WAYNE IN	4,880	83.4	10.1	2.8	3.6



**Appendix 14. Basin characteristics of the 42 algal-biomass sampling sites in the Great Lakes Tributaries, Indiana, May through October 2005.—Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>				
			Agriculture	Forest	Urban	Other	
065	CROMWELL D 600FT DS CR1000 E NR ENCHANTED HILLS IN	9.8	91.4	6.0	.6	2.0	
066	ST MARYS RIVER 20FT DS CR 350 W NR MIDDLETOWN IN	1,660	91.8	6.2	.5	1.5	
068	ST JOSEPH RIVER 2300 FT US CR 17 AT ELKHART IN	6,470	72.7	16.7	9.2	1.5	
069	LITTLE CEDAR CK 1520 FT DS SR 327 NR HUNTERTOWN IN	187	86.1	8.4	3.9	1.7	
	Minimum	.8	11.5	1.7	.1	0	
	Mean	568	80.9	11.5	4.7	3.0	
	Median	36.5	85.7	8.4	2.8	1.2	
	Maximum	6,470	98.0	59.0	15.6	26.5	
	Standard deviation	1,290	17.5	11.3	4.6	5.9	

<sup>1</sup> The full IDEM site number has a prefix of INRB05, for example INRB05-001.

<sup>2</sup> Land-use percentages were determined by the U.S. Geological Survey using the National Land Cover Dataset (U.S. Geological Survey, 2000).

**Appendix 15.** Location and ecoregion designations of the 43 algal-biomass sampling sites in the Ohio River Tributaries, Indiana, May through October 2005.

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
102	381232087323201	HURRICANE CK 2300 FT DS OF CR1025 NR HAUBSTADT IN	IX	72	38.20889	-87.54222
103	382108086164601	BLUE R 230 FT DS OF SR 64 AT MILLTOWN IN	IX	71	38.35222	-86.27944
104	383339085454001	MILLER FK 1680FT US HEBRON CHURCH RD AT HENRYVILLE	VI	55	38.56083	-85.76111
106	382806085470801	UNNAMED TRIB 200FT US EBENEZERCHURCH RD NR MEMPHIS	VI	55	38.46833	-85.78556
109	375731086420401	UNNAMED TRIB 950 FT DS OF ASTER RD NR TELL CITY IN	IX	71	37.95861	-86.70111
110	382151085561201	INDIAN CK 875 FT DS OF NAVILLETON RD AT GALENA IN	IX	71	38.36417	-85.93667
111	380537086290701	LITTLE OIL CK 975 FT DS OF PARKS RD NR MAGNET IN	IX	71	38.09361	-86.48528
112	390432085070401	SOUTH HOGAN CK 6100 FT DS OF SR 101 NR MILAN IN	IX	71	39.07556	-85.11778
113	380309085594301	MOSQUITO CK 1.2MI DS BUENA VISTA RD NR BUENA VISTA	IX	71	38.05250	-85.99528
115	380814087241101	PIGEON CK 2550 FT DS OF N 750 RD NR ELBERFELD IN	IX	72	38.13722	-87.40306
116	391155084542401	BRUSHY FK 1230FT US SAWDON RIDGE RD NR GUILFORD IN	IX	71	39.19861	-84.90667
119	381121086184001	BLUE R 0.6MI DS OLD FOREST RD SW NR LEAVENWORTH IN	IX	71	38.18917	-86.31111
121	381345086072001	INDIAN CK 8730 FT US OF SR337 AT CORYDON IN	IX	71	38.22917	-86.12222
122	384615085243501	DEANS BR 1050 FT US OF SR 1 AT NORTH MADISON IN	VI	55	38.77083	-85.40972
124	390511085032701	ALLEN BR 4450FT US OF IRELAND RD NR MOORES HILL IN	VI	55	39.08639	-85.05750
125	380620087041401	LITTLE PIGEON CK 0.2MI US PIGEON SWITCH GENTRYVILLE	IX	72	38.10556	-87.07056
126	383221085352801	FOURTEENMILE CK 3140FT US ROGERS RUN NR NEW MARKET	VI	55	38.53917	-85.59111
127	380926086344501	OIL CK 5580 DS OF BRANCHVILLE RD AT BRANCHVILLE IN	IX	71	38.15722	-86.57917
128	385822085024401	HAYES BR 1620 FT DS W LAUGHERY CK RD NR MILTON IN	IX	71	38.97278	-85.04556

**Appendix 15.** Location and ecoregion designations of the 43 algal-biomass sampling sites in the Ohio River Tributaries, Indiana, May through October 2005.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
132	391015084523101	SALT FK 7380 FT US OF SR 1 NR LAWRENCEBURG IN	IX	71	39.17083	-84.87528
133	380115086542901	UNNAMED TRIB 730 FT US OF SR 245 NR NEWTONVILLE IN	IX	72	38.02083	-86.90806
136	390707084521701	TANNERS CK 6300 FT US SCHENLEY PL AT GREENDALE IN	IX	71	39.11861	-84.87139
137	381429086472501	CYCLONE BR 2 MI US OF SCHLACHTER RD FERDINAND IN	IX	71	38.24139	-86.79028
141	380313087075701	LITTLE PIGEON CK 4550 FT US E525 RD NR TENNYSON IN	IX	72	38.05361	-87.13250
142	382349085433601	SILVER CK 5850 FT DS GREENLEAF DR AT SELLERSBURG IN	VI	55	38.39694	-85.72667
145	382309086145001	BLUE R 2 MI US OF E TOTTEN FORD RD NR MILLTOWN IN	IX	71	38.38583	-86.24722
148	390550085144001	LAUGHERY CK 4.3 MI US E PERRY ST NR VERSAILLES IN	VI	55	39.09722	-85.24444
150	382620086032101	BEAR CK 730 FT US E MARTINSBURG FIRE RD MARTINSBURG	IX	71	38.43889	-86.05583
153	381333086164201	BLUE R 3.64 M DS OF SR 462 NR LEAVENWORTH IN	IX	71	38.22583	-86.27833
156	382852085421201	SUGAR RUN 760 FT DS OF SR 160 NR CHARLESTOWN IN	VI	55	38.48111	-85.70333
157	381947086283401	LITTLE BLUE R 4200 FT DS OF SPEARS ST AT ENGLISH IN	IX	71	38.32972	-86.47611
158	385130085152601	INDIAN KENTUCK CK 8070 FT DS OF SR 62 NR CANAAN IN	IX	71	38.85833	-85.25722
159	380443086464901	ANDERSON R 1500 FT US N AVERY RIDGE RD NR HUFFMAN	IX	71	38.07861	-86.78028
162	385955084565501	LAUGHERY CK 4900 FT DS OF COLE LANE AT HARTFORD IN	IX	71	38.99861	-84.94861
164	383640085324401	UNNAMED TRIB 2100 FT US SR 362 NR NEW WASHINGTON IN	VI	55	38.61111	-85.54556
167	381044086374601	WINDING BR 3630 FT US OF CR46 NR APALONA IN	IX	71	38.17889	-86.62944
172	384635085044401	INDIAN CK 9200 FT US OF KNOX FORD RD NR VEVAY IN	IX	71	38.77639	-85.07889
179	382341086150801	BLUE R 4.1 MI US OF E TOTTEN FORD RD NR MILLTOWN IN	IX	71	38.39472	-86.25222

**Appendix 15.** Location and ecoregion designations of the 43 algal-biomass sampling sites in the Ohio River Tributaries, Indiana, May through October 2005.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; USEPA, U.S. Environmental Protection Agency; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station ID	USGS station name	USEPA Aggregate Nutrient Ecoregion <sup>2</sup>	Level III Ecoregion <sup>3</sup>	Latitude (decimal degrees)	Longitude (decimal degrees)
184	381302087204401	UNNAMED TRIB 250 FT US OF CR 950S NR LYNNVILLE IN	IX	72	38.21722	-87.34556
185	381705086163001	BLUE R 1.35 MI US OF CR 30 NR MILLTOWN IN	IX	71	38.28472	-86.27500
191	375931086440301	BRUSHY FK 4780 FT US OF CR 11 NR TELL CITY IN	IX	71	37.99194	-86.73417
193	381745086311701	OTTER CK 660FT US OF W OLD FELKER RD NR MIFFLIN IN	IX	71	38.29583	-86.52139
195	380749086040201	BUCK CK 275FT US BUCK CK VALLEY RD NEW MIDDLETOWN	IX	71	38.13028	-86.06722

<sup>1</sup> The full IDEM site number has a prefix of INRB05, for example INRB05-101.

<sup>2</sup> U.S. Environmental Protection Agency, 1998a.

<sup>3</sup> U.S. Environmental Protection Agency, 2003.

**Appendix 16. Basin characteristics of the 43 algal-biomass sampling sites in the Ohio River Tributaries, Indiana, May through October 2005.**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; INDP, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
102	HURRICANE CK 2300 FT DS OF CR1025 NR HAUBSTADT IN	35.5	93.3	5.0	0.6	1.2
103	BLUE R 230 FT DS OF SR 64 AT MILLTOWN IN	916	68.3	30.5	.3	.9
104	MILLER FK 1680FT US HEBRON CHURCH RD AT HENRYVILLE	10.1	25.2	71.9	.9	2.1
106	UNNAMED TRIB 200FT US EBENEZERCHURCH RD NR MEMPHIS	2.9	66.8	32.5	.2	.5
109	UNNAMED TRIB 950 FT DS OF ASTER RD NR TELL CITY IN	4.3	28.8	70.8	.1	.3
110	INDIAN CK 875 FT DS OF NAVILLETON RD AT GALENA IN	42.2	63.0	35.2	.2	1.7
111	LITTLE OIL CK 975 FT DS OF PARKS RD NR MAGNET IN	23.1	18.2	81.8	0	0
112	SOUTH HOGAN CK 6100 FT DS OF SR 101 NR MILAN IN	53.1	69.7	26.7	.5	3.1
113	MOSQUITO CK 1.2MI DS BUENA VISTA RD NR BUENA VISTA	12.5	16.7	83.3	0	0
115	PIGEON CK 2550 FT DS OF N 750 RD NR ELBERFELD IN	516	80.8	12.9	4.9	1.3
116	BRUSHY FK 1230FT US SAWDON RIDGE RD NR GUILFORD IN	13.3	71.8	27.5	.1	.6
119	BLUE R 0.6MI DS OLD FOREST RD SW NR LEAVENWORTH IN	1,290	62.3	36.5	.3	.8
121	INDIAN CK 8730 FT US OF SR337 AT CORYDON IN	394	64.6	31.9	.3	3.2
122	DEANS BR 1050 FT US OF SR 1 AT NORTH MADISON IN	1.1	11.3	6.6	.1	82.0
124	ALLEN BR 4450FT US OF IRELAND RD NR MOORES HILL IN	2.3	66.2	33.7	0	0
125	LITTLE PIGEON CK 0.2MI US PIGEON SWITCH GENTRYVILLE	268	71.2	26.4	1.7	.8
126	FOURTEENMILE CK 3140FT US ROGERS RUN NR NEW MARKET	135	77.4	21.3	.8	.5
127	OIL CK 5580 DS OF BRANCHVILLE RD AT BRANCHVILLE IN	46.3	30.3	69.5	.0	.2
128	HAYES BR 1620 FT DS W LAUGHERY CK RD NR MILTON IN	51.9	47.5	50.5	.6	1.4

**Appendix 16.** Basin characteristics of the 43 algal-biomass sampling sites in the Ohio River Tributaries, Indiana, May through October 2005.—Continued

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
132	SALT FK 7380 FT US OF SR 1 NR LAWRENCEBURG IN	28.1	49.1	41.8	.3	8.8
133	UNNAMED TRIB 730 FT US OF SR 245 NR NEWTONVILLE IN	2.1	80.1	17.0	2.9	0
136	TANNERS CK 6300 FT US SCHENLEY PL AT GREENDALE IN	268	60.1	37.5	.4	2.0
137	CYCLONE BR 2 MI US OF SCHLACHTER RD FERDINAND IN	2.3	39.8	60.2	0	0
141	LITTLE PIGEON CK 4550FT US E525 RD NR TENNYSON IN	489	67.5	29.5	2.4	.6
142	SILVER CK 5850FT DS GREENLEAF DR AT SELLERSBURG IN	439	45.9	50.0	1.9	2.3
145	BLUE R 2 MI US OF E TOTTEN FORD RD NR MILLTOWN IN	872	69.1	29.7	.3	.9
148	LAUGHERY CK 4.3 MI US E PERRY ST NR VERSAILLES IN	394	71.3	26.0	.8	2.0
150	BEAR CK 730FT US E MARTINSBURG FIRE RD MARTINSBURG	20.4	67.0	32.7	0	.4
153	BLUE R 3.64 MI DS OF SR 462 NR LEAVENWORTH IN	1,270	63.2	35.7	.3	.8
156	SUGAR RUN 760 FT DS OF SR 160 NR CHARLESTOWN IN	17.5	45.2	51.7	1.8	1.3
157	LITTLE BLUE R 4200FT DS OF SPEARS ST AT ENGLISH IN	70.2	36.0	62.2	1.1	.6
158	INDIAN KENTUCK CK 8070 FT DS OF SR 62 NR CANAAN IN	123	51.4	48.1	.3	.1
159	ANDERSON R 1500FT US N AVERY RIDGE RD NR HUFFMAN	322	45.1	54.4	.3	.3
162	LAUGHERY CK 4900 FT DS OF COLE LANE AT HARTFORD IN	856	60.3	37.6	.8	1.3
164	UNNAMED TRIB 2100FT US SR 362 NR NEW WASHINGTON IN	1.4	77.8	21.6	.6	0
167	WINDING BR 3630 FT US OF CR46 NR APALONA IN	9.3	13.4	79.0	6.6	1.0
172	INDIAN CK 9200 FT US OF KNOX FORD RD NR VEVAY IN	113	48.9	50.5	.4	.2
179	BLUE R 4.1MI US OF E TOTTEN FORD RD NR MILLTOWN IN	869	69.2	29.5	.3	.9

**Appendix 16. Basin characteristics of the 43 algal-biomass sampling sites in the Ohio River Tributaries, Indiana, May through October 2005.—Continued**

[IDEM, Indiana Department of Environmental Management; USGS, U.S. Geological Survey; ID, identification number; km<sup>2</sup>, square kilometer; FT, feet; US, upstream; INDPLS, Indianapolis; CR, County Road; SR, State Route; DS, downstream; CK, Creek.; FK, Fork; DCH, Ditch; NR, near; AV, Avenue; ST, Street; N, North; S, South; E, East; W, West; IN, Indiana]

Short IDEM site number <sup>1</sup>	USGS station name	Drainage area (km <sup>2</sup> )	Land use (percent) <sup>2</sup>			
			Agriculture	Forest	Urban	Other
184	UNNAMED TRIB 250 FT US OF CR 950S NR LYNNVILLE IN	.5	96.8	3.0	.2	.0
185	BLUE R 1.35 MI US OF CR 30 NR MILLTOWN IN	1,110	63.8	35.0	.3	.9
191	BRUSHY FK 4780 FT US OF CR 11 NR TELL CITY IN	2.8	51.7	48.3	0	.0
193	OTTER CK 660FT US OF W OLD FELKER RD NR MIFFLIN IN	27.0	26.5	73.4	0	.0
195	BUCK CK 275FT US BUCK CK VALLEY RD NEW MIDDLETOWN	96.8	64.1	35.2	.6	.1
	Minimum	.5	11.3	3.0	0	.0
	Mean	274	55.8	40.6	.8	2.8
	Median	53.1	63.0	35.2	.3	.6
	Maximum	1,290	96.8	83.3	6.6	82.0
	Standard deviation	378	20.8	20.4	1.3	12.2

<sup>1</sup> The full IDEM site number has a prefix of INRB05, for example INRB05-102.

<sup>2</sup> Land-use percentages were determined by the U.S. Geological Survey using the National Land Cover Dataset (U.S. Geological Survey, 2000).