

A GAZETTEER OF SURFACE-MINE LAKES,
EASTERN INTERIOR COAL PROVINCE, ILLINOIS

By David C. Voelker

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM OF UNITS (SI)

<u>Multiply inch-pound units</u>	<u>By</u>	<u>To obtain SI units</u>
acre	0.4047	hectare
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)

GLOSSARY

- CHEMOCLINE - The water layer separating the epilimnion and hypolimnion that exhibits a rapid change in chemical composition. The chemocline may not always break down during seasonal turnovers.
- EPILIMNION - The upper layer of warm, circulating water in a thermally stratified lake that usually contains more oxygen than the lower layers.
- HYPOLIMNION - The lowermost, noncirculating layer of cold water in a thermally stratified lake, usually deficient of oxygen during part of the summer.
- METALIMNION - The zone between the epilimnion and the hypolimnion that exhibits a rapid drop in temperature, including a lesser gradient on either side of the thermocline.
- THERMOCLINE - A layer of water usually 2 to 3 meters thick, between the warmer, surface zone and the colder, deep-water zone in a thermally stratified body of water, in which the temperature decreases rapidly with depth. This is a seasonal condition.

A GAZETTEER OF SURFACE-MINE LAKES,
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By David C. Voelker

ABSTRACT

Hundreds of lakes have been formed as a result of surface mining in Area 35 of the Eastern Interior Coal Province in Illinois. This gazetteer reports physical and chemical data from 107 surface-mine lakes sampled from June through August 1983. Information collected includes location, morphology, and vertical profile measurements of water quality of the lakes.

The lakes range in size from 8.8 to 210 acres, and are from 4.0 to 92.0 feet deep. Maximum widths of the lakes range from 0.03 to 0.35 mile, and maximum lengths range from 0.27 to 3.08 miles.

Some lake waters were stratified, whereas others were completely mixed. Stratification was indicated through vertical-profile measurements of pH, temperature, dissolved-oxygen concentrations, and specific conductance. Some lakes had a strong thermocline and(or) apparent chemocline that acted as barriers between the epilimnion and hypolimnion.

Water quality differed widely among the lakes. Specific conductances ranged from 130 to 7,800 microsiemens per centimeter (at 25° Celsius). Specific conductances of 2,000 to 5,000 microsiemens per centimeter were most prevalent. The pH values ranged from 1.8 to 9.6 at the surface, whereas bottom measurements ranged from 2.0 to 8.5. Water temperatures near the surface ranged from 22.5° Celsius in June to 34.5° Celsius in August. Water temperatures near the bottom ranged from 6.5° to 24.5° Celsius. Dissolved-oxygen concentrations differed greatly among the lakes; concentrations near the surface ranged from 6.0 to 13.2 milligrams per liter and, near the bottom, from 0 to 9.0 milligrams per liter. Transparencies, measured with a Secchi disc, ranged from 0.3 to 35.4 feet.

INTRODUCTION

The Eastern Region of the Interior Coal Province has been divided into 11 study areas (fig. 1) based on hydrologic factors, location, and size. Area 35 includes about 4,500 square miles in southern Illinois and western Kentucky. The area includes all of Franklin, Hardin, Saline, and Williamson Counties, and parts of Gallatin, Hamilton, Jackson, Jefferson, Johnson, Massac, Pope, Washington, Perry, White, Marion, and Union Counties in Illinois, and parts of Crittendon and Livingston Counties in Kentucky (fig. 2). This report is confined to the Illinois part of the area. A similar study in Indiana encompassed parts of Areas 30, 32, and 33 (Bobo, 1979).

Area 35 (fig. 2) is one of the most active mining areas in Illinois. Several hundred lakes have been formed in Area 35 as a result of surface mining; however, the general water quality of these lakes is not known. Current regulations allow for some lakes to be formed even though the quality of future surface-mine lakes may not be predictable.

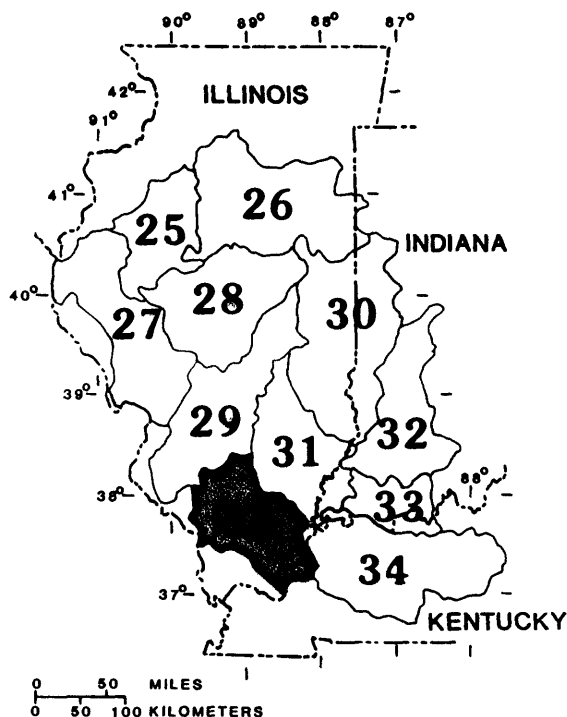


Figure 1.--Location of the 11 hydrologic study areas comprising the Eastern Interior Coal Province.

The purpose of this report is to document the location of and provide descriptive information for some of the lakes formed by surface coal mining in Area 35. This report includes morphological characteristics, transparency measurements, and vertical profiles of temperature, pH, dissolved-oxygen concentrations, and specific conductance for 107 lakes.

Special thanks are given to the coal-company personnel who provided information, aerial photographs, data, and access to lakes. Appreciation is also extended to the many individuals for access to privately owned lakes. A special thanks is given to Jon Williams of Rend Lake College for his outstanding efforts that contributed to the timely completion of the field reconnaissance.

METHODS

Water-quality meters were calibrated at the beginning of each day, and the calibration checked prior to each lake measurement. Length and width measurements were made with a range finder to verify and update maps and aerial photographs. Where necessary, topographic maps were modified to show the location of lakes that have been formed since publication of the maps. Lake depths were measured with an electronic depth finder. At the point of maximum lake depth, a vertical profile measurement of water quality was made with a submersible water-quality probe, and transparency was measured with a Secchi disc. Air temperature was recorded on the shore, and any additional information was recorded from visual observations of the site.

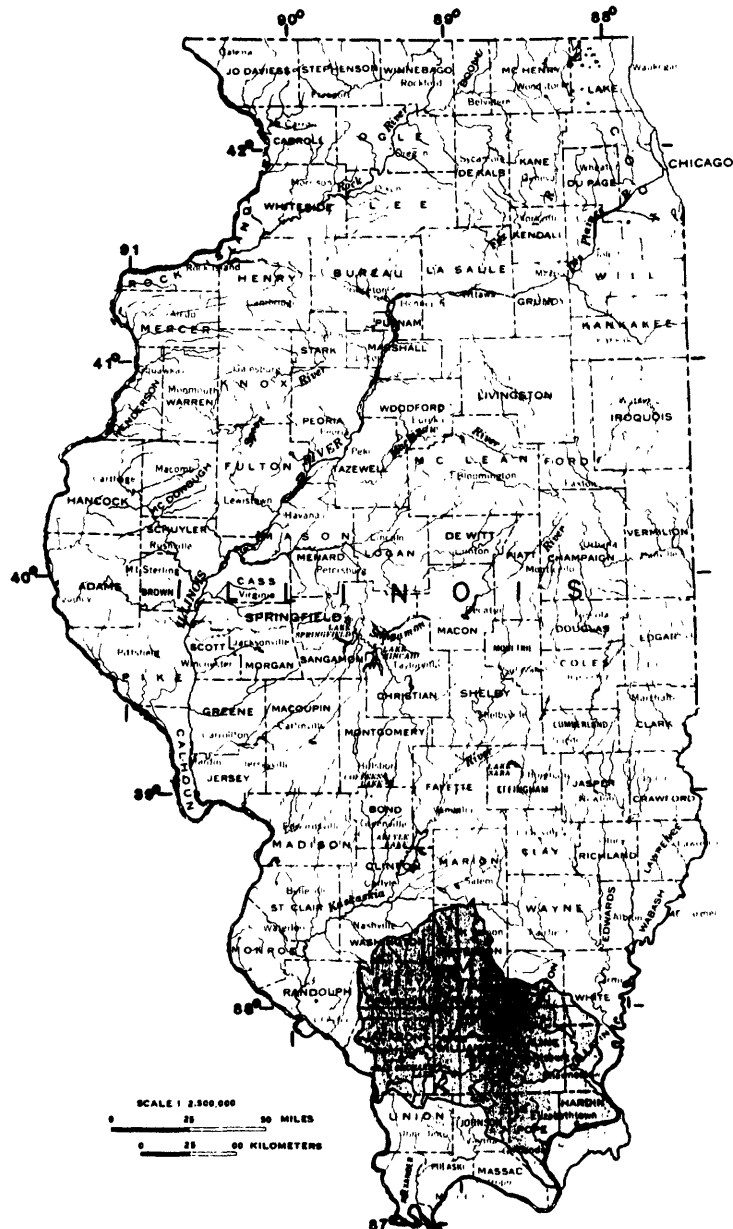


Figure 2.--Location of Area 35, Eastern Interior Coal Province, Illinois and Kentucky.

Field observations included apparent water color and shoreline vegetation. Water color was recorded based on visual observations by field personnel. Colors were listed as varying shades of green, brown, red, and black. Shoreline vegetation included the plants found along the lake shore that were broadly categorized as grasses, woods, and brush. Air temperature, in degrees Celsius, was measured at the lake shore using a mercury thermometer. The remarks section includes condition of the spoil materials, presence of an outlet or aquatic vegetation, and other miscellaneous information.

SELECTION AND LOCATIONS OF LAKES

The initial selection of lakes to be sampled was made by examining the 94 U.S. Geological Survey 7.5-minute quadrangle topographic maps covering Area 35 (fig. 3). The selections were refined through discussions with coal-company personnel in the area. A minimum size of approximately 10 acres was chosen because of the greater potential for fisheries and recreational uses of the larger lakes. Accessibility was also a factor in the selection process. Each of the lakes selected for study was sampled once during the period June 1983 through August 1983.

Lakes that were sampled are located within the boundaries of the 16 U.S. Geological Survey 7.5-minute quadrangle topographic maps listed in table 1. The topographic maps (figs. 4-19) show the sampled lakes as darkened areas and are numbered to correspond with the accompanying data tables (table 2). Some of the sampled lakes included in this report were not on the topographic maps because they were formed after the maps were prepared. An approximate location of these lakes, based on field observations and aerial photographs, has been sketched onto the topographic maps.

Table 1.--U.S. Geological Survey 7.5-minute quadrangle topographic maps included in this report

<u>Quadrangle</u>	<u>Figure</u>
Carrier Mills	4
Crab Orchard	5
De Soto	6
Du Quoin	7
Elkville	8
Equality	9
Harrisburg	10
Herrin	11
Marion	12
Murphysboro	13
Percy	14
Pinckneyville	15
Pyatts	16
Shawneetown	17
Vergennes	18
Willisville	19

Lake numbers were assigned sequentially from 1 to 107 by ascending station identification number. Station identification numbers follow the U.S. Geological Survey guidelines for 15-digit station numbers. These numbers include the latitude and longitude of the sample site followed by a two-digit sequence number. The station identification number identifies the sample location on the lake and is accurate to within approximately 100 feet.

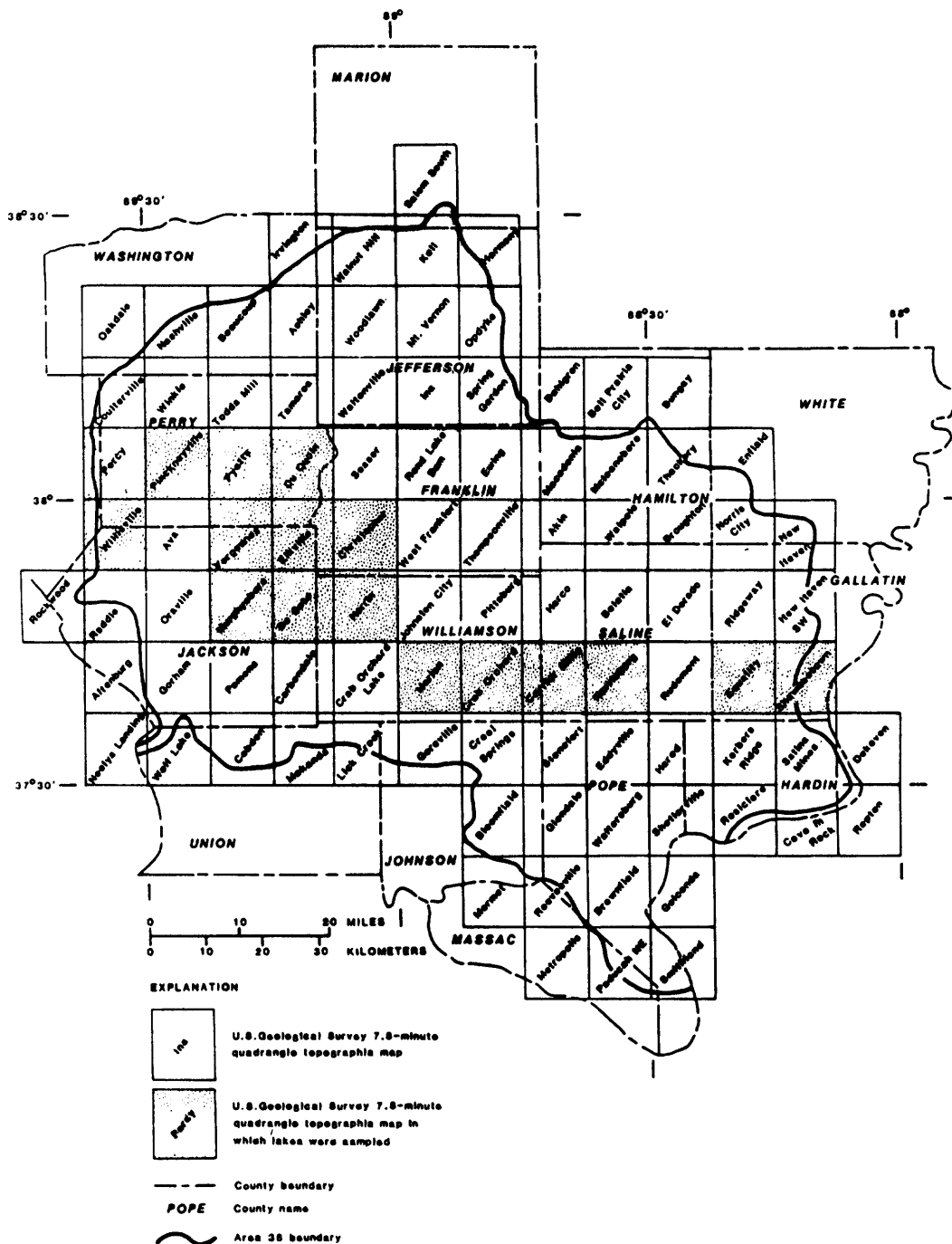


Figure 3.--U.S. Geological Survey 7.5-minute quadrangle topographic maps covering the study area in Illinois.

The term "lake lat-long," as found in the data tables, is the location of the lake as identified by the latitude and longitude of the lake's outlet. However, many surface-mine lakes do not have surface outlets and these are identified by the latitude and longitude of the southernmost point of the lake. Locations and sequence numbers are shown in figures 4 to 19.

MORPHOLOGY OF LAKES

Surface-mine lakes form as a result of several activities associated with the surface mining of coal. The majority of lakes are formed when an excavation is left to fill with water. These are often known as final-cut lakes. However, lakes can also form in depressions of the spoil materials as caused by subsidence, uneven backfill of excavations, or they may be created for use in various mining operations. Such operations include the impoundment of water for coal processing, and they may be used as settling basins for waste products of such processing.

Morphological measurements vary significantly with lake age. With improvements in mining equipment and techniques, as well as changes in surface-mining laws, reclamation procedures have produced definitive changes in the topography of surface-mined lands. Older lakes have steep, exposed, and irregular spoil banks while younger lakes have gently contoured and revegetated shorelines.

Morphological data include size, maximum depth, maximum width, maximum length, and some general remarks regarding the physical characteristics of the lake. Approximate corrections to the topographic maps in the form of changes to existing lakes, as well as the addition of new lakes, were made from field observations noted at the time of sampling.

Study lakes range in size from 8.8 to 210 acres and average 34.5 acres. Maximum depths range from 4.0 feet in lake 48, which was formed by surface subsidence of the spoil materials, to 92.0 feet in the final-cut part of lake 102. Maximum widths range from 0.03 to 0.35 mile. The lakes range from 0.27 to 3.08 miles in length.

WATER QUALITY OF LAKES

Vertical profiles of specific conductance, pH, temperature, and dissolved oxygen were made at the location of maximum depth in each of the lakes. Eh, oxidation-reduction potential, was also measured for some lakes. Profile measurements were made at 1- to 3.3-foot intervals from the surface to approximately 1 foot from the lake bottom. Several lakes were deeper than the length of the sensor cables and measurements were only made to depths the sensors could reach. Transparency of the lake water was measured with a Secchi disc.

Vertical profile measurements of pH, temperature, dissolved-oxygen concentration, and specific conductance indicated wide differences in general water quality between lakes. Some lake waters had a strong thermocline and(or) apparent chemocline (as evidenced by temperature and specific conductance measurements) which acted as barriers between upper, circulating water masses and deeper, relatively stagnant waters. Many lakes had no such stratification but instead were well mixed. Complete mixing was found primarily, but not exclusively, in the shallower lakes.

Specific Conductance

Specific conductances ranged from 130 microsiemens per centimeter at 25°C ($\mu\text{S}/\text{cm}$) in lake 101 to 7,800 $\mu\text{S}/\text{cm}$ in lake 80. Specific conductance usually increased with depth, with a maximum increase of 5,380 $\mu\text{S}/\text{cm}$ in lake 80, but remained virtually unchanged between the surface and bottom layers of several lakes. Most lakes had specific conductances in the range of 2,000 to 5,000 $\mu\text{S}/\text{cm}$. The specific conductance data indicates that dissolved-solids concentrations in most of the lakes are relatively high. Snoeyink and Jenkins (1980) indicate that measurements of specific conductance are in direct correlation to concentrations of dissolved solids in lakes. Specific conductance is a measure of the ability of a solution to conduct a current. This ability is attributable to the ions in solution, or total dissolved solids.

pH

Values of pH near the surface ranged from 1.8 in lake 85 to 9.6 in lake 9. Values of pH near the bottom ranged from 2.0 in lake 85 to 8.5 in lake 47. Generally, pH decreased with depth, although in lakes 7, 19, 36, 47, and 85, pH increased with depth.

Temperature

Water temperatures near the surface ranged from 22.5° to 34.5°C. Surface temperatures were related to the date of sampling; the lowest values were recorded at the start of the reconnaissance in June, and successively higher values were measured during subsequent months. Most lakes were thermally stratified and had a definite thermocline, although the slope of the thermal gradient varied between lakes. Temperatures in the deepest parts of the lakes ranged from a low of 6°C in a deep, relatively stagnant lake, to the upper teens in shallower lakes in which water circulation occurs.

Dissolved Oxygen

Dissolved-oxygen concentrations varied greatly between lakes. Surface measurements of dissolved oxygen ranged from 6.0 to 13.2 mg/L (milligrams per liter). Dissolved-oxygen concentrations generally decreased with depth, although several lakes were supersaturated with dissolved oxygen at depth. Many lakes with well defined thermoclines and(or) chemoclines had dissolved-oxygen concentrations that increased greatly in the metalimnion, and then decreased sharply to concentrations at or near zero in the hypolimnion. In lakes 23, 30, 32, 43, 90, and 95, dissolved-oxygen concentrations recorded in the metalimnion exceeded 18 mg/L. In lakes 34, 36, 66, and 71, dissolved-oxygen values were unexplainably high, and no verification was made at that time, other than checking the instrument used and then repeating the measurement. In lake 66, both the dissolved oxygen and pH probes failed, and the water-quality meter could not be recalibrated upon its return to the surface indicating a possible instrument problem. In the remaining three lakes, however, a calibration check was made on the water-quality meter, and only very minor (0.1-0.2 mg/L)

or no adjustments were needed indicating that the meter was not malfunctioning. However, the high dissolved-oxygen values may have been the result of possible chemical interference with the dissolved-oxygen probe. Dissolved-oxygen values above saturation are common in biologically productive waters; however, the values measured in lakes 34, 36, 66, and 71 are unexplained at this time. Additional sampling of these lakes during the summer of 1984 could not verify the existence of dissolved-oxygen concentrations in excess of 20 mg/L, and data indicating such values have been omitted from this report.

Oxidation-Reduction Potential

Eh, oxidation-reduction potential, profiles were made for nine lakes. All showed an Eh of 113 to 251 mv (millivolts) near the surface. Two sites (lakes 58 and 72) remained relatively unchanged in Eh between the surface and bottom. The two sites sampled on lake 20 had surface Eh's of 236 and 209 mv, and bottom Eh's of 12 and 99 mv, respectively. Five lakes (60, 62, 67, 101, and 102) showed an Eh of -152 to -292 mv at their deepest point.

Water-Transparency and Color

The minimum Secchi disc transparency measurement was 0.3 foot in lake 105, and the maximum was 35.4 feet in lake 16. Average transparency of the lakes was 8.6 feet. It should be noted that variations in this measurement can be related to eyesight of the viewer and the contrast between the disc and surrounding water (Cole, 1975).

More than 80 percent of those lakes where color was recorded were listed as some shade of green. The remaining lakes were recorded as being brown in color with the exception of one black lake (45) and one red lake (85). A wide variety of spoil material characteristics were represented near or at the lakes sampled. Many lakes, especially those of larger size, had areas with both very steep and gently sloping spoil materials. Older lakes often had a very irregular shoreline while younger lakes had more even, straight shorelines. Vegetation on the spoil materials consisted primarily of grasses and wooded areas. Most lakes are apparently closed basins as only 25 were observed to have surface-water outlets, and surface-water inlets were observed only on two lakes.

SUMMARY

Surface mining of coal is of major importance in Area 35, Eastern Interior Coal Province, in Illinois. As a result of this method of mining, hundreds of lakes have been formed. The majority of these lakes are the result of excavations filling with water, but others are also formed where subsidence or depressions form in spoil materials on reclaimed lands. A few lakes are created for use in the mining operations.

During the period June 1983 to August 1983, 107 of these lakes were visited to collect physical and chemical field data. Information collected includes location, morphology, and vertical profile measurements of specific conductance, pH, temperature, dissolved oxygen, and oxidation-reduction potential.

Lakes that were sampled range in size from 8.8 to 210 acres, and are from 4.0 to 92.0 feet deep. Maximum widths range from 0.03 to 0.35 mile, and maximum lengths range from 0.27 to 3.08 miles.

Some lakes were stratified, whereas others were completely mixed. Stratification was indicated through vertical-profile measurements of the pH, temperature, dissolved-oxygen concentrations, and specific conductance. Some stratified lakes had a strong thermocline and(or) apparent chemocline that acted as barriers between the epilimnion and hypolimnion.

General water quality differed widely among the lakes. Specific conductances ranged from 130 to 7,800 $\mu\text{S}/\text{cm}$. The most prevalent range of specific conductance was between 2,000 and 5,000 $\mu\text{S}/\text{cm}$. pH of the surface waters ranged from 1.8 to 9.6, whereas bottom measurements ranged from 2.0 to 8.5. Water temperatures near the surface ranged from 22.5° Celsius in June to 34.5° Celsius in August. Bottom temperatures ranged from 6.5° to 24.5° Celsius. Dissolved-oxygen concentrations ranged from 6.0 to 13.2 milligrams per liter (mg/L) at the surface, and from 0 to 9.0 mg/L at the bottom. Transparency of lake waters ranged from 0.3 to 35.4 feet.

This reconnaissance is only an initial attempt to classify surface-mine lakes. Additional studies, either through continued sampling programs or data compilation and analysis, are required to further define the quality of surface-mine lakes. Studies could be made to compare how aging, morphology, or possibly surface-mining techniques may affect a lake's water quality. With such information, government agencies and coal-mining companies could more accurately predict changes in quality of future surface-mine lakes.

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Survey Water-Resources Investigations 81-403, 68 p.

Figures 4-19; Table 2

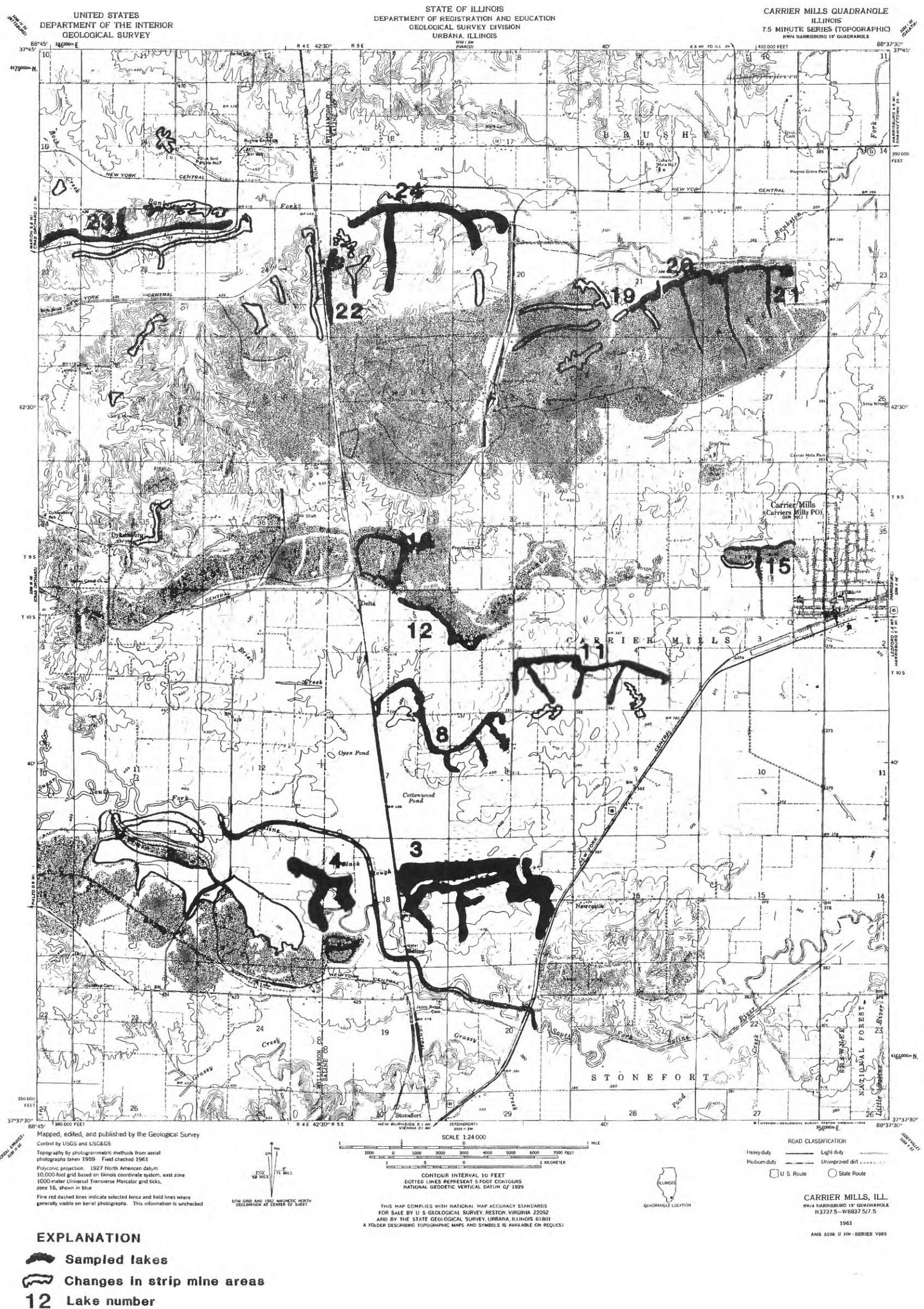


Figure 4.--Surface-mine lakes sampled in the Carrier Mills Quadrangle.

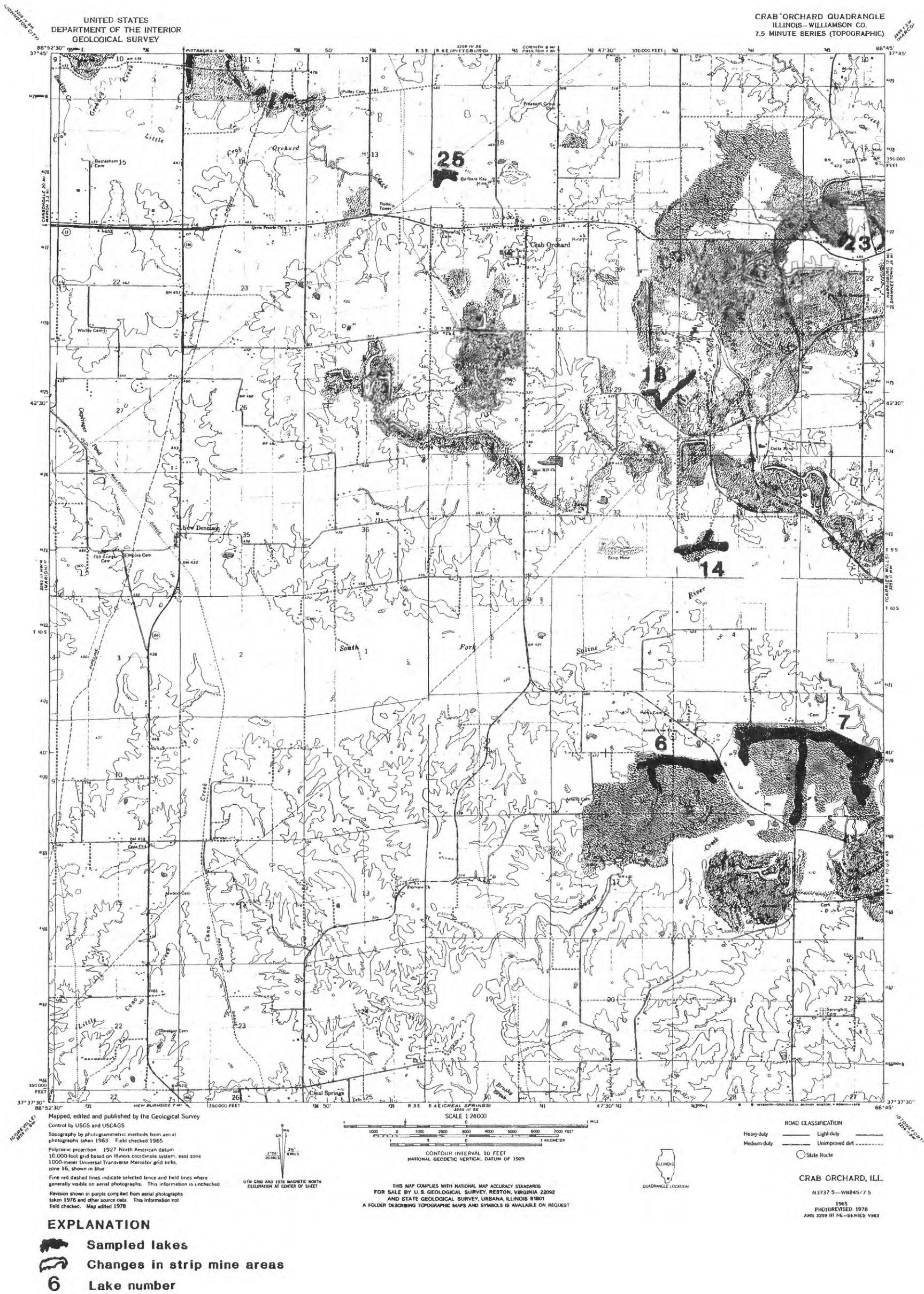


Figure 5.--Surface-mine lakes sampled in the Crab Orchard Quadrangle.

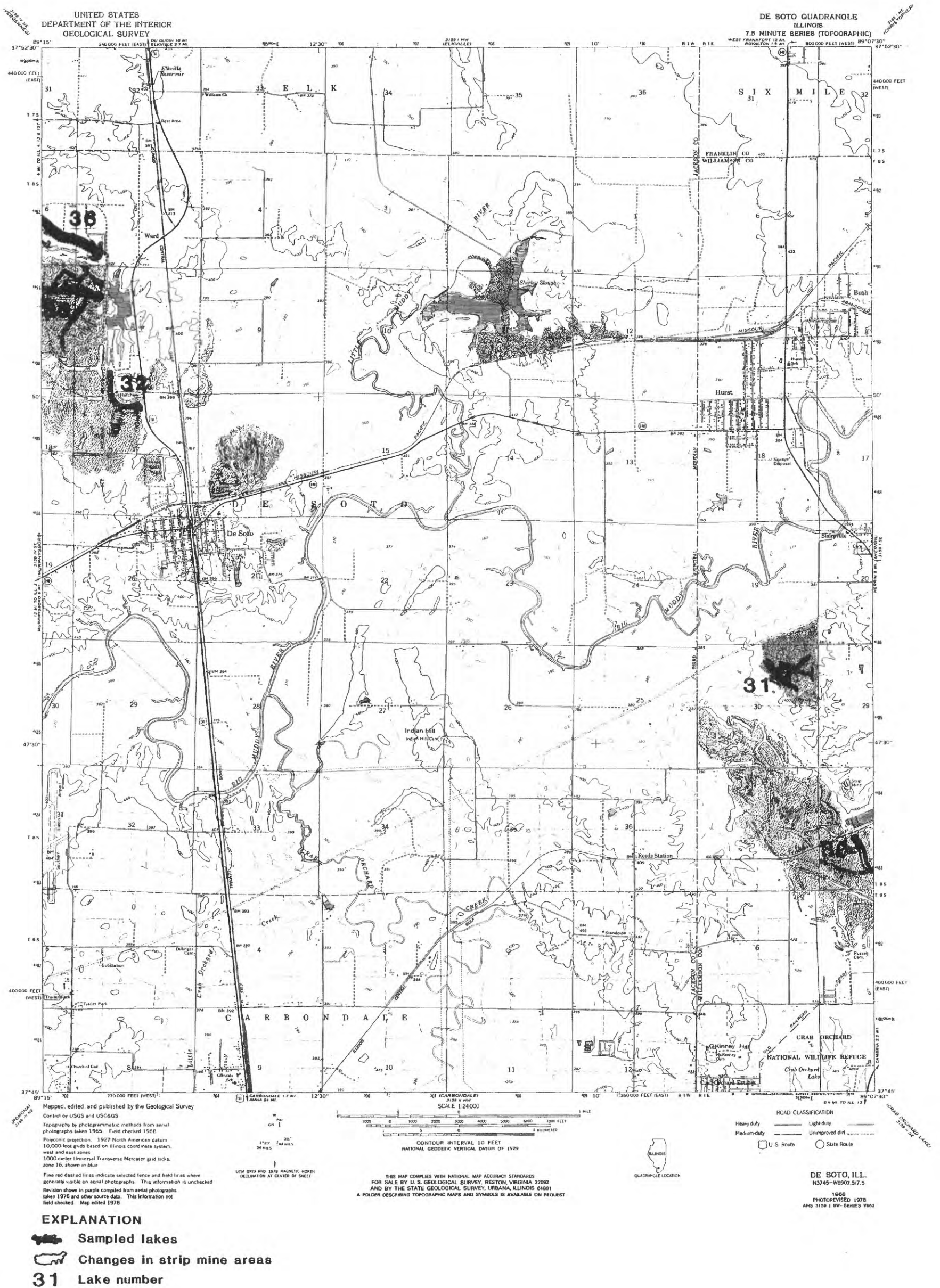


Figure 6.--Surface-mine lakes sampled in the De Soto Quadrangle.

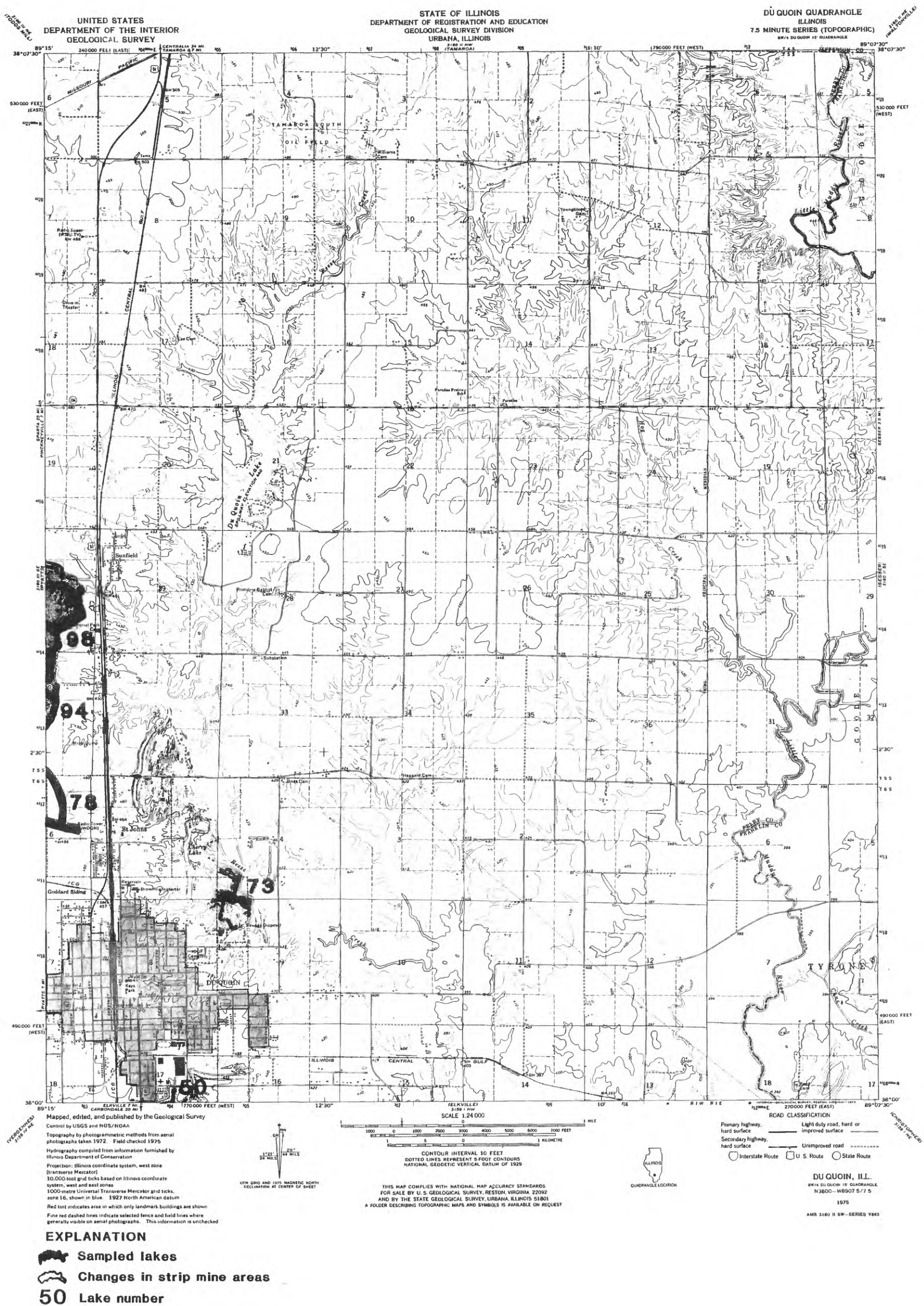


Figure 7.--Surface-mine lakes sampled in the Du Quoin Quadrangle.

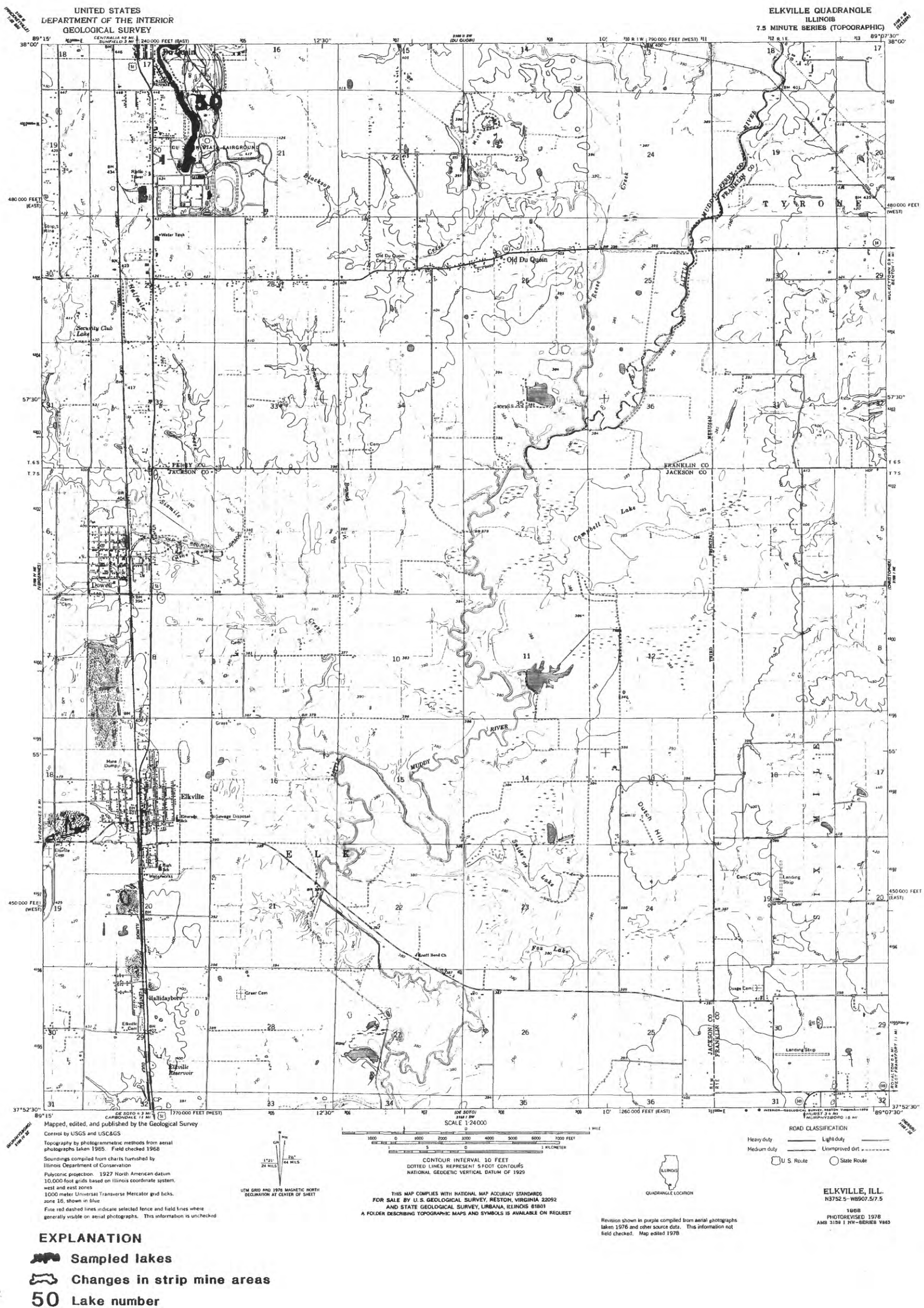


Figure 8.--Surface-mine lakes sampled in the Elkville Quadrangle.

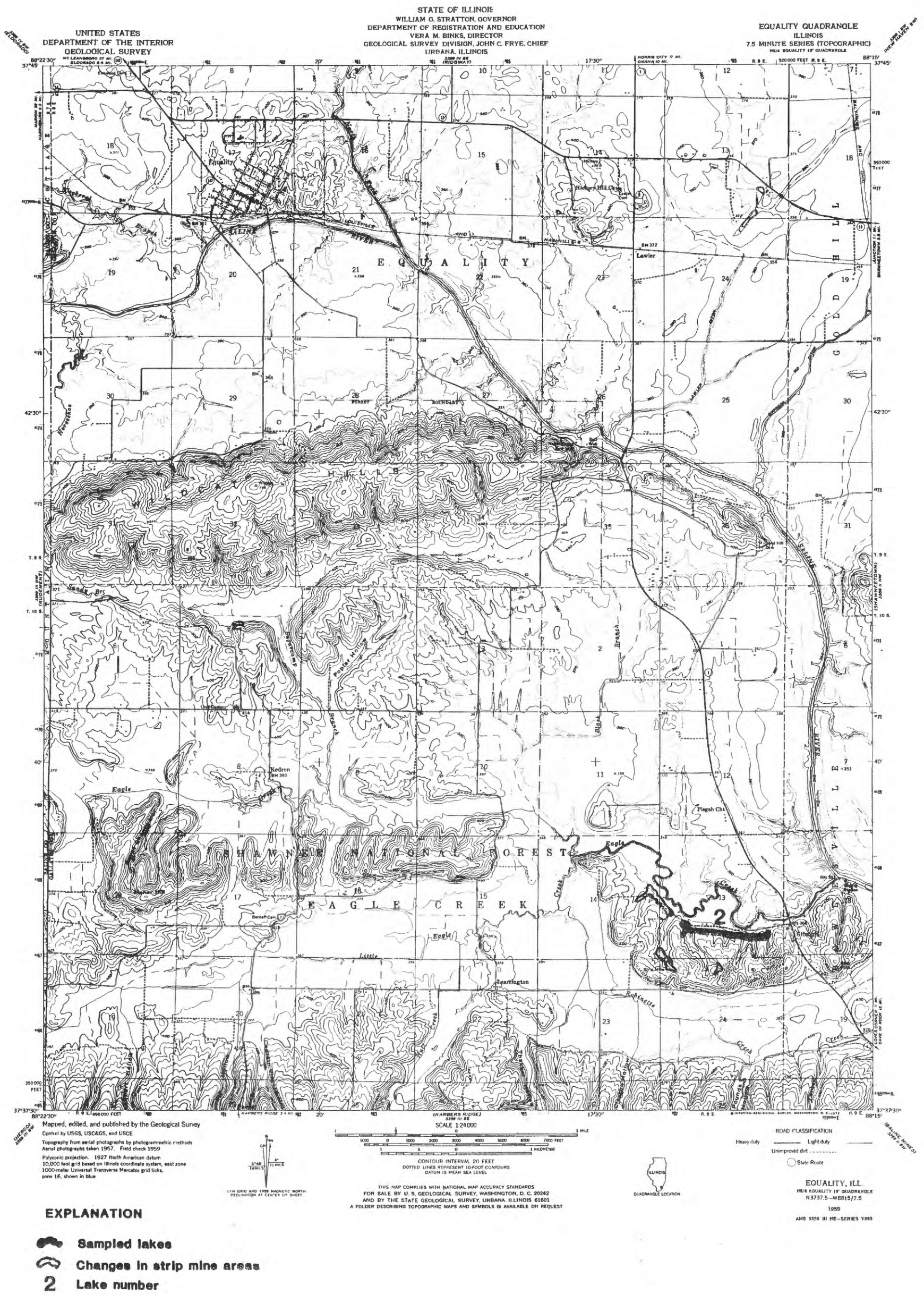


Figure 9.--Surface-mine lakes sampled in the Equality Quadrangle.

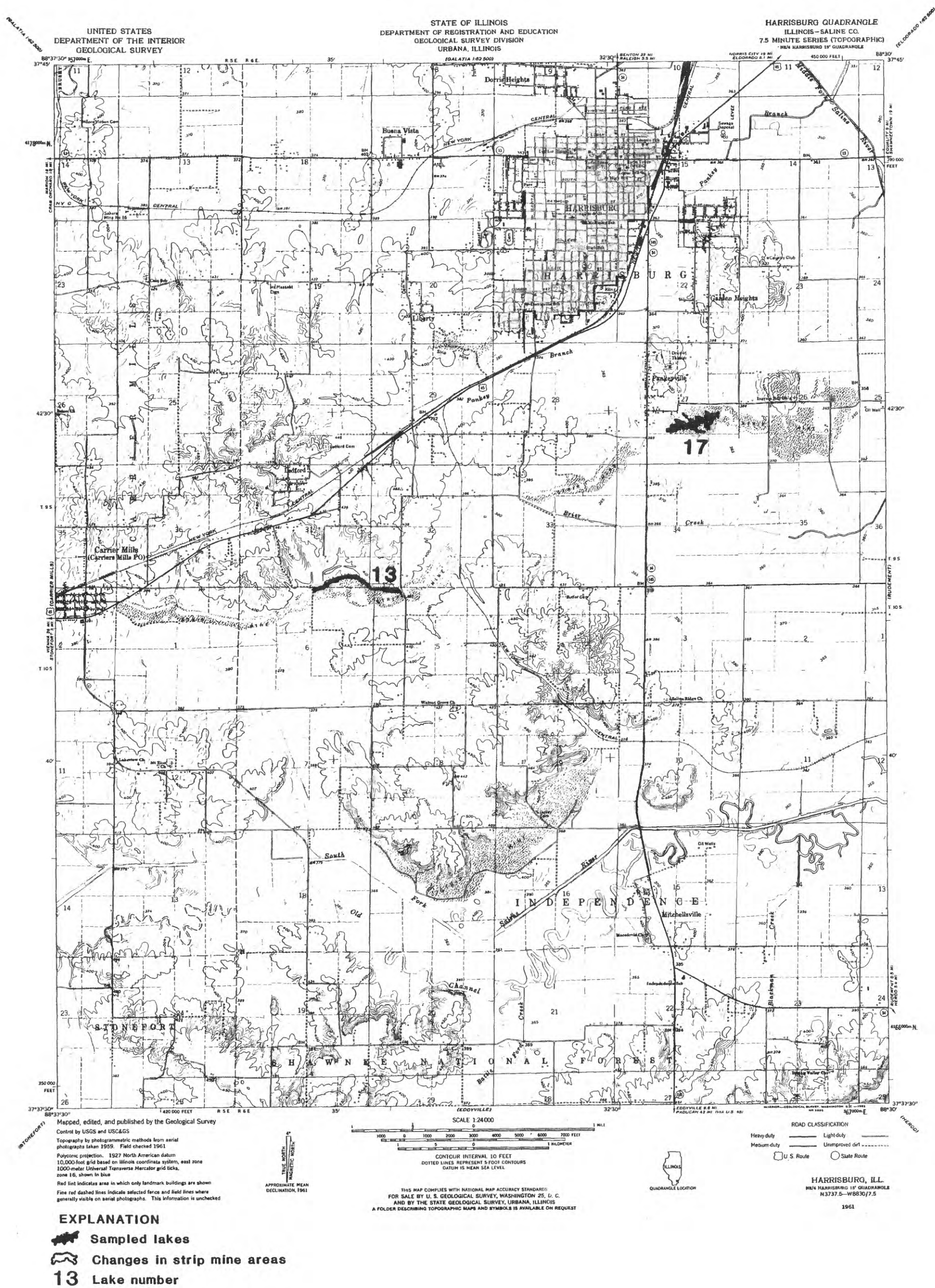


Figure 10.--Surface-mine lakes sampled in the Harrisburg Quadrangle.

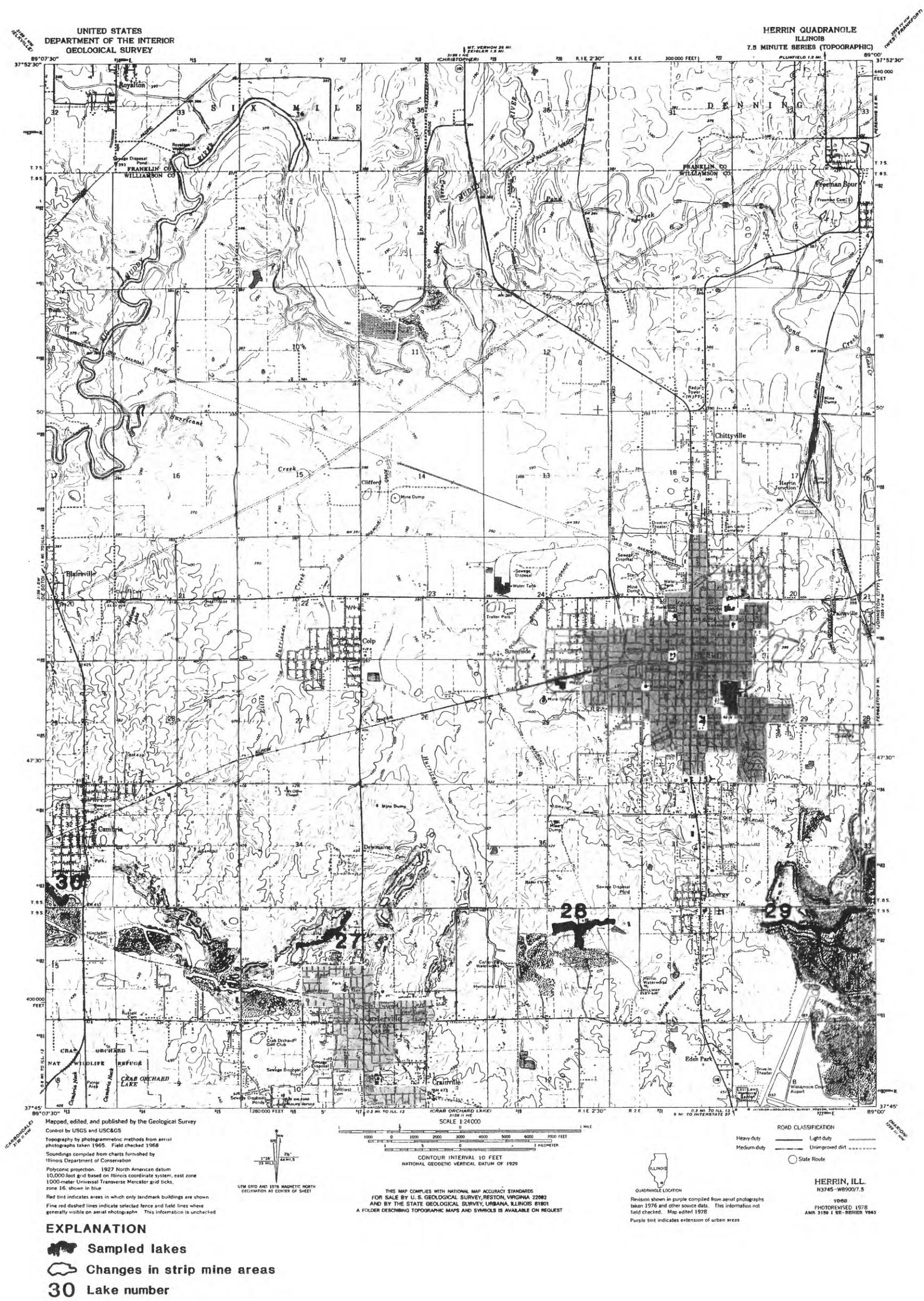


Figure 11.--Surface-mine lakes sampled in the Herrin Quadrangle.

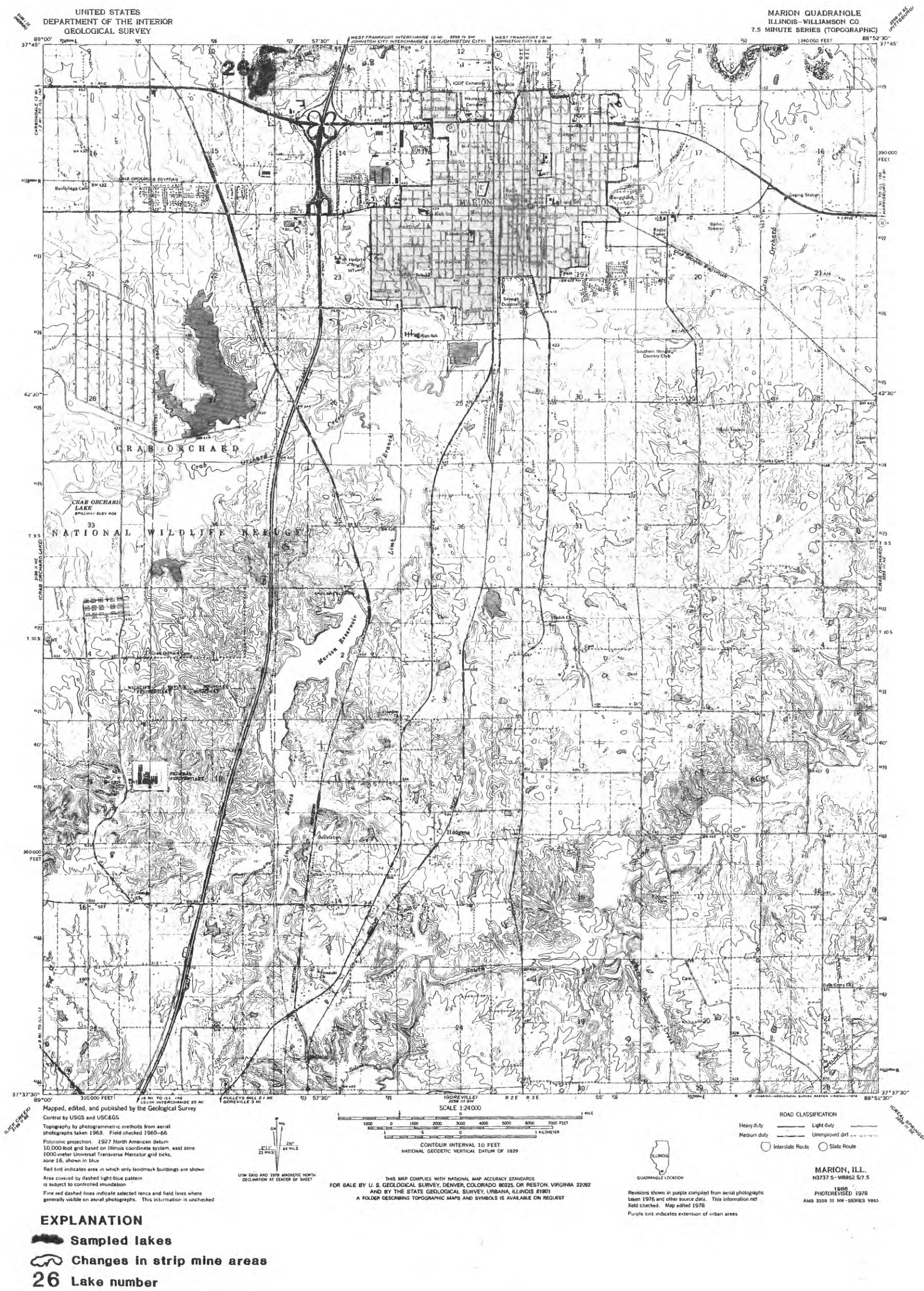


Figure 12.--Surface-mine lakes sampled in the Marion Quadrangle.

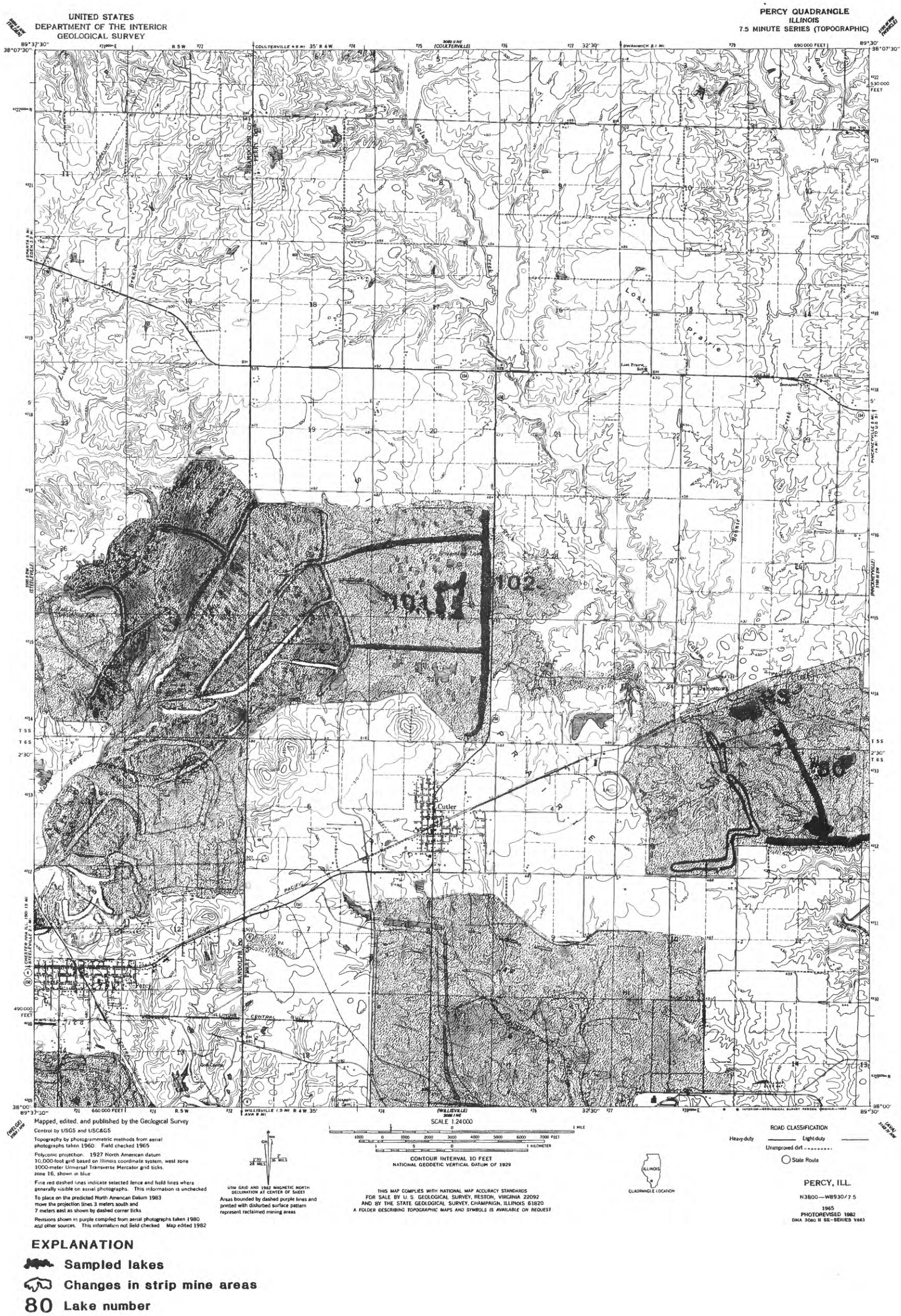


Figure 14.--Surface-mine lakes sampled in the Percy Quadrangle.

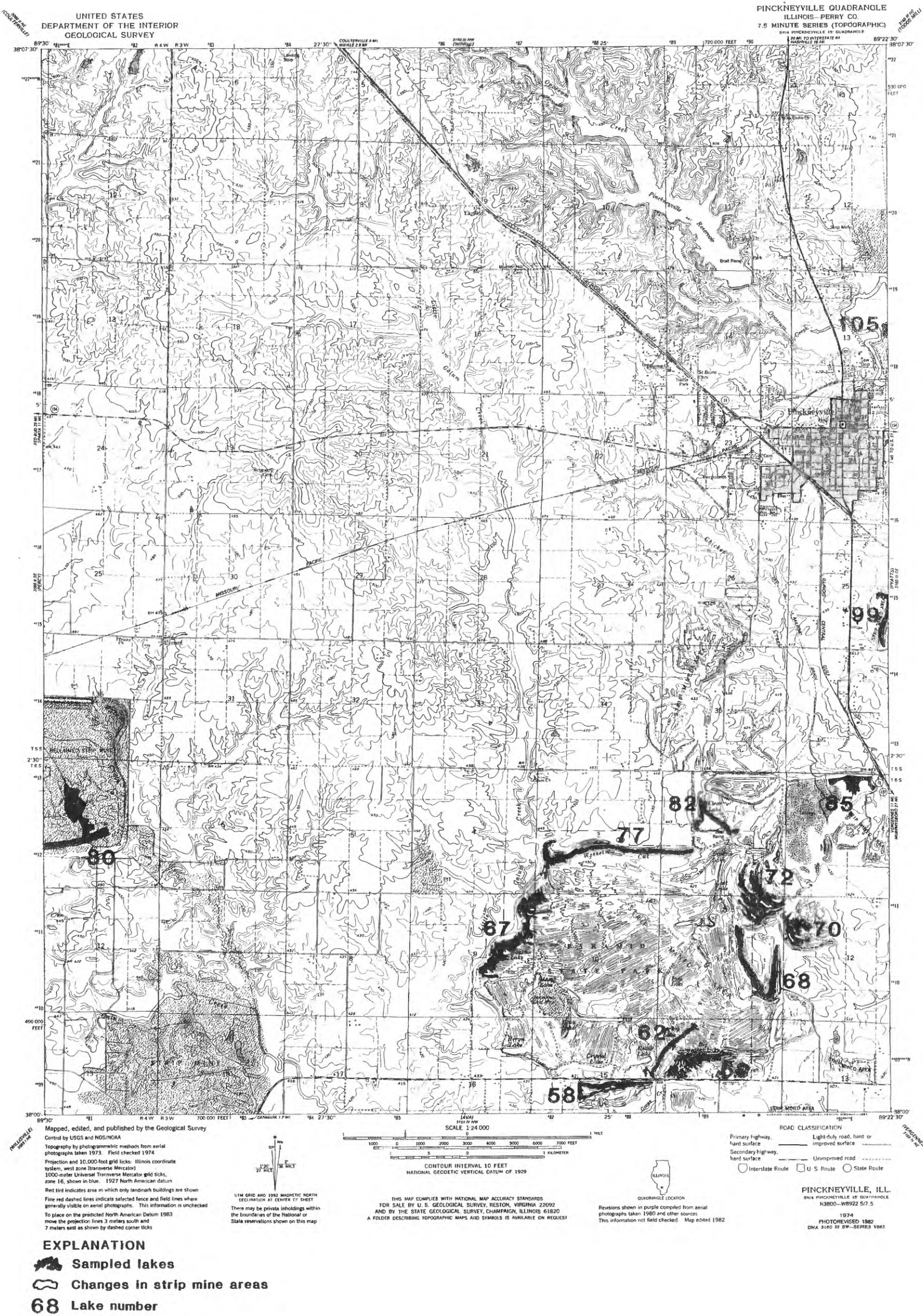


Figure 15.--Surface-mine lakes sampled in the Pinckneyville Quadrangle.

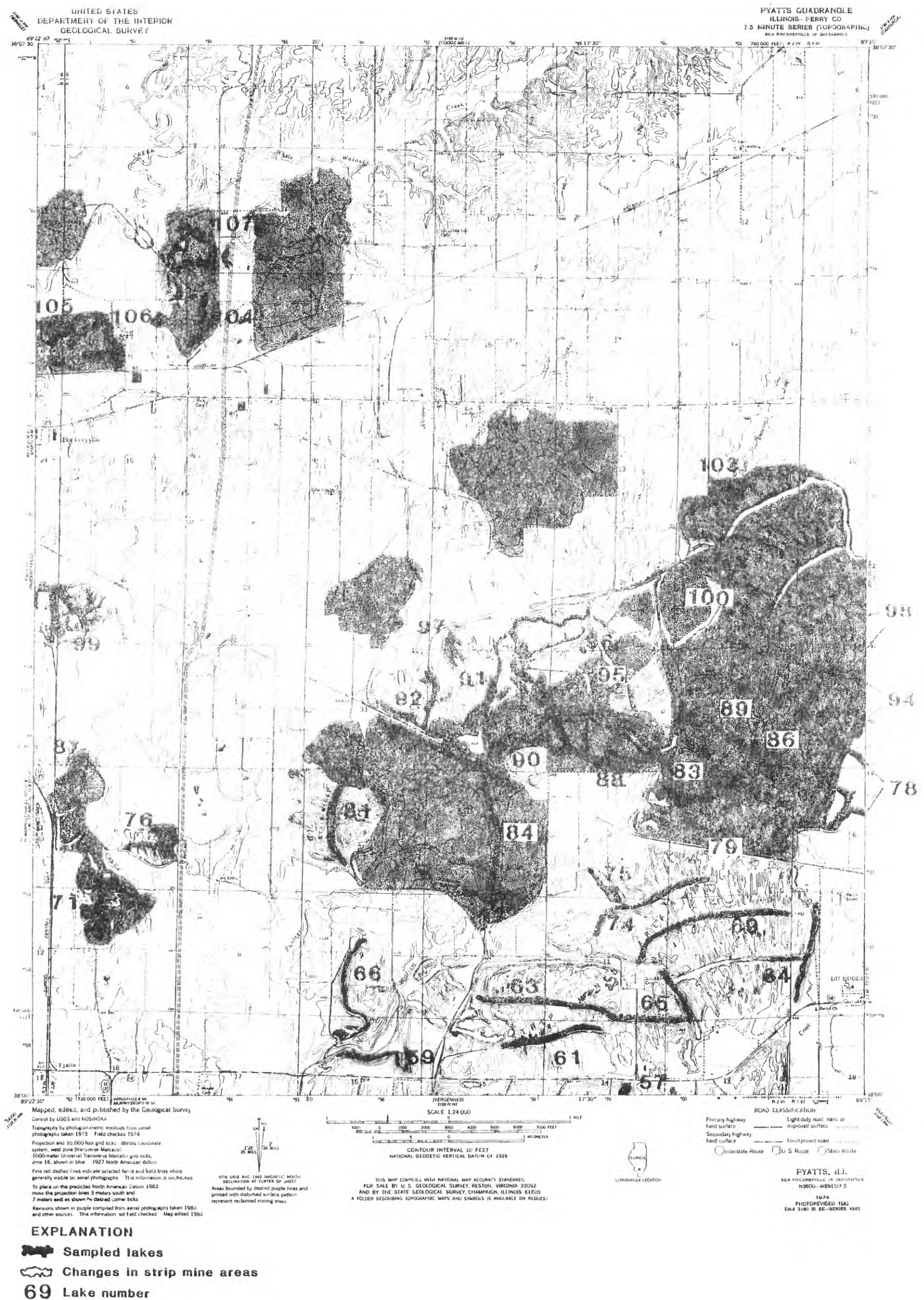


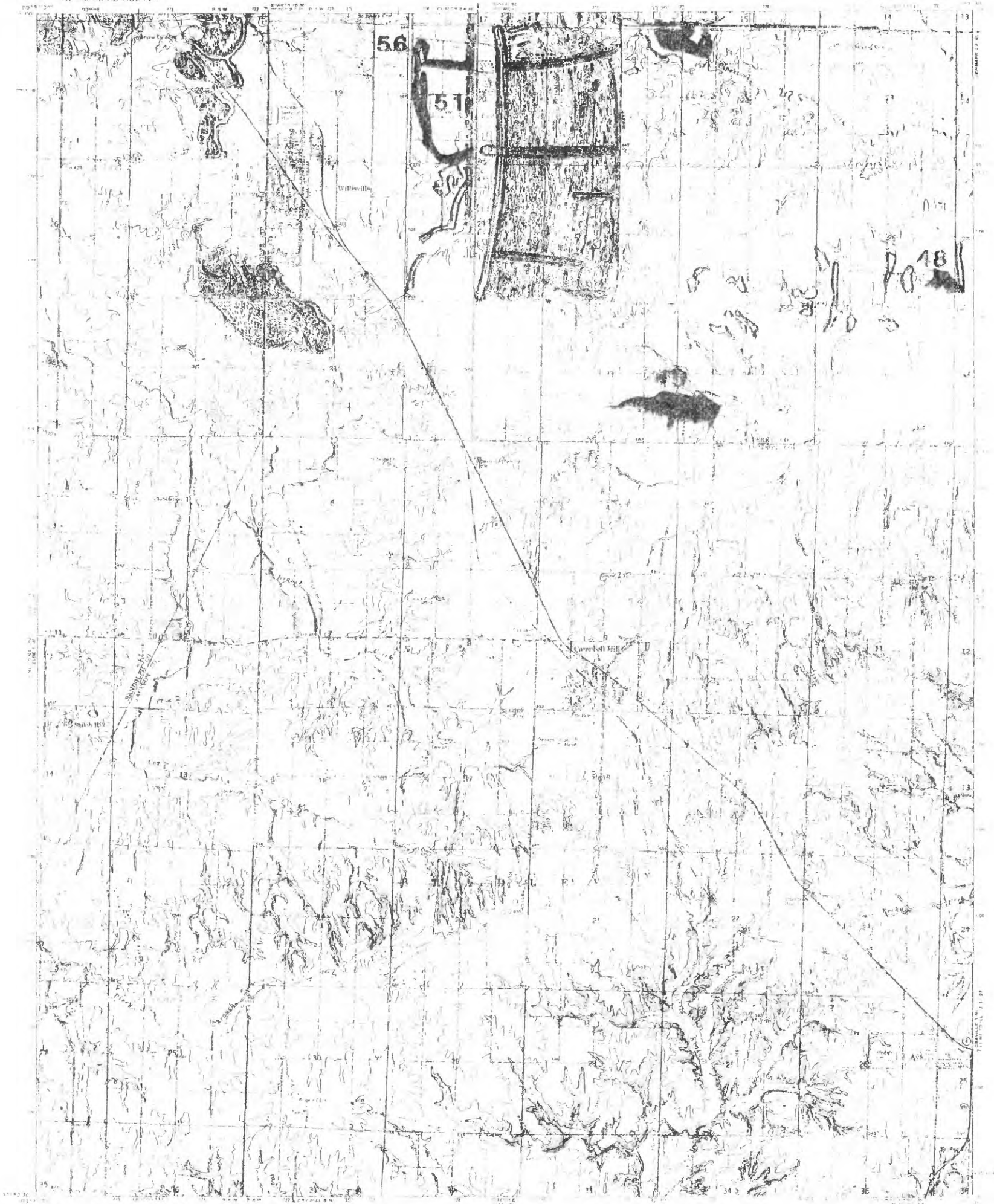
Figure 16.--Surface-mine lakes sampled in the Pyatts Quadrangle.



Figure 17.--Surface-mine lakes sampled in the Shawneetown Quadrangle.



Figure 18.--Surface-mine lakes sampled in the Vergennes Quadrangle.



Maped, edited, and published by the Geological Survey

Compiled by D. C. and H. C. 1955

Topography by photogrammetry, datum from mean

sea level, based on 1929 datum, revised 1955

Horizontal projection, 1927 North American datum

1:50,000 scale, based on Illinois coordinate system, and used

1:25,000 scale, based on Illinois coordinate system, and used

1:12,500 scale, based on Illinois coordinate system, and used

1:6,250 scale, based on Illinois coordinate system, and used

1:3,125 scale, based on Illinois coordinate system, and used

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1:0.0078125 scale, based on Illinois coordinate system, and used

1:0.00390625 scale, based on Illinois coordinate system, and used

EXPLANATION

Sampled lakes

Changes in strip mine areas

56 Lake number

Figure 19.--Surface-mine lakes sampled in the Willisville Quadrangle.

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35

LAKE NO. 1 - SHAWNEETOWN QUADRANGLE (FIG. 17)

STATION ID: 373809088142601							
LAKE LAT-LONG: 373809 0881411		WATER-QUALITY DATA					
LAKE NAME: UNNAMED LAKE NO. 1 NEAR GIBSONIA, IL							
LAKE SIZE (ACRES):	19.2			Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	66.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.10	June					
MAXIMUM LENGTH (MILES):	0.38	16...	1000	.00	1100	8.2	26.0
		16...	1001	3.30	1110	8.2	25.5
TRANSPARENCY (SECCHI DISC)		16...	1002	6.60	1230	7.9	24.5
(FEET): 6.6		16...	1003	9.80	1620	7.5	20.0
		16...	1004	13.1	1930	7.3	15.0
COLOR: DARK GREEN		16...	1005	16.4	2080	7.0	13.0
		16...	1006	19.7	3290	6.5	12.0
VEGETATION: GRASSES		16...	1007	23.0	3420	6.2	11.5
		16...	1008	26.2	3470	6.3	11.5
AIR TEMPERATURE (DEG C): 33.0		16...	1009	29.5	3540	6.3	11.5
		16...	1010	32.8	4210	6.3	11.0
REMARKS: GENTLY SLOPING SPOIL-		16...	1011	36.1	4220	6.3	11.0
OUTLET ON EAST END OF LAKE.		16...	1012	39.4	4410	6.3	11.0
		16...	1013	42.6	4520	6.3	11.0
		16...	1014	45.9	4580	6.3	11.0
		16...	1015	49.2	4620	6.3	11.0
		16...	1016	52.5	4770	6.3	11.0
		16...	1017	55.8	4880	6.3	11.5
		16...	1018	59.0	4980	6.3	11.5
		16...	1019	62.3	4990	6.3	12.0
		16...	1020	65.6	5010	6.4	12.0

LAKE NO. 2 - EQUALITY QUADRANGLE (FIG. 9)

STATION ID: 373847088163301							
LAKE LAT-LONG: 373843 0881600		WATER-QUALITY DATA					
LAKE NAME: UNNAMED LAKE NO. 2 AT GIBSONIA, IL							
LAKE SIZE (ACRES):	20.2			Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	46.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.05	June					
MAXIMUM LENGTH (MILES):	0.78	16...	0840	.00	2050	7.2	25.5
		16...	0841	3.20	2090	7.3	25.5
TRANSPARENCY (SECCHI DISC)		16...	0842	6.60	2100	7.2	25.5
(FEET): 6.9		16...	0843	9.80	2380	6.8	20.5
		16...	0844	13.1	2500	6.8	15.5
COLOR: DARK GREEN		16...	0845	16.4	2540	6.7	13.5
		16...	0846	19.7	2570	6.7	12.0
VEGETATION: GRASSES		16...	0847	23.0	2630	6.7	11.0
		16...	0848	26.2	2740	6.6	11.0
AIR TEMPERATURE (DEG C): 22.0		16...	0849	29.5	2760	6.6	10.5
		16...	0850	32.8	2760	6.6	10.0
		16...	0851	36.1	2780	6.6	9.5
		16...	0852	39.4	2820	6.5	9.5
		16...	0853	42.6	2850	6.5	9.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 3 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID: 373907088412701		WATER-QUALITY DATA					
LAKE LAT-LONG: 373844 0884133							
LAKE NAME: UNNAMED LAKE NO.1 NEAR STONEFORT, IL							
LAKE SIZE (ACRES):	200.						
MAXIMUM DEPTH (FEET):	59.5						
MAXIMUM WIDTH (MILES):	0.21						
MAXIMUM LENGTH (MILES):	1.95						
TRANSPARENCY (SECCHI DISC) (FEET):	7.4						
COLOR:	GREEN						
VEGETATION:	GRASSES, WOODS						
		Date	Time	Sam- pling depth (feet)	Spa- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		June					
		13...	1405	.00	1510	6.6	27.5
		13...	1406	3.00	1520	6.4	27.0
		13...	1407	5.00	1510	6.2	27.0
		13...	1408	7.00	1510	6.1	26.5
		13...	1409	9.00	1510	6.0	26.0
		13...	1410	11.0	1510	5.7	24.5
		13...	1411	13.0	1510	5.4	23.5
		13...	1412	15.0	1580	4.8	21.5
		13...	1413	17.0	1790	4.3	18.0
		13...	1414	19.0	1810	4.1	15.5
		13...	1415	21.0	1810	4.1	14.0
		13...	1416	23.0	1830	4.0	13.0
		13...	1417	25.0	1850	3.9	12.5
		13...	1418	27.0	1890	3.8	12.0
		13...	1419	29.0	1930	3.7	11.5
		13...	1420	31.0	2060	3.5	11.0
		13...	1421	33.0	2870	3.5	10.0
		13...	1422	35.0	3290	3.0	9.5
		13...	1423	37.0	3380	2.9	9.0
		13...	1424	39.0	3400	2.9	8.5
		13...	1425	41.0	3410	3.0	8.0
		13...	1426	43.0	3420	3.0	7.5
		13...	1427	45.0	3440	3.0	7.5
		13...	1428	47.0	3440	3.0	7.5
		13...	1429	49.0	3440	3.0	7.5
		13...	1430	51.0	3440	3.0	7.5
		13...	1431	53.0	3430	3.0	7.0
		13...	1432	55.0	3440	3.1	7.0
		13...	1433	57.0	3450	3.3	7.0
		13...	1434	59.0	3450	3.6	7.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 4 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID:	373910088422401							
LAKE LAT-LONG:	373849 0884229	WATER-QUALITY DATA						
LAKE NAME:	UNNAMED LAKE NO. 2 NEAR STONEFORT, IL							
LAKE SIZE (ACRES):	56.3			Sam-pling depth (feet)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (deg C)	Oxygen, dis-solved (mg/L)
MAXIMUM DEPTH (FEET):	61.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.09	June						
MAXIMUM LENGTH (MILES):	0.67	14...	1120	.00	2800	6.9	25.0	7.8
TRANSPARENCY (SECCHI DISC) (FEET):	13.9	14...	1121	3.30	2820	7.0	25.0	7.8
		14...	1122	6.60	2820	7.1	25.0	7.7
COLOR:	DARK GREEN	14...	1123	9.80	2820	7.3	25.0	7.7
		14...	1124	13.1	2950	7.7	24.5	7.8
REMARKS: SEDIMENT ENTERING WEST END OF LAKE.		14...	1125	16.4	3100	6.8	21.0	7.4
		14...	1126	19.7	3660	6.2	17.5	3.0
		14...	1127	23.0	4250	6.4	14.0	1.5
		14...	1128	26.2	4570	-6.6	12.5	1.4
		14...	1129	29.5	4680	6.7	12.0	1.3
		14...	1130	32.8	4830	6.6	11.5	1.3
		14...	1131	36.1	4920	6.5	11.5	1.2
		14...	1132	39.4	5030	6.5	11.5	1.2
		14...	1133	42.6	5140	6.3	12.0	1.2
		14...	1134	45.9	5240	6.2	12.0	1.2
		14...	1135	49.2	5310	6.2	12.5	1.2
		14...	1136	52.5	5380	6.1	12.5	1.1
		14...	1137	55.8	5460	6.1	12.5	1.1
		14...	1138	59.0	4900	7.4	12.5	1.1

LAKE NO. 5 - SHAWNEETOWN QUADRANGLE (FIG. 17)

STATION ID:	373921088142001							
LAKE LAT-LONG:	373912 0881421	WATER-QUALITY DATA						
LAKE NAME:	UNNAMED LAKE NO. 3 NEAR SHAWNEETOWN, IL							
LAKE SIZE (ACRES):	19.7			Sam-pling depth (feet)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (deg C)	Oxygen, dis-solved (mg/L)
MAXIMUM DEPTH (FEET):	56.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.09	June						
MAXIMUM LENGTH (MILES):	0.42	16...	1147	.00	2750	7.8	27.0	7.7
TRANSPARENCY (SECCHI DISC) (FEET):	10.2	16...	1148	3.30	2760	7.8	26.5	7.9
		16...	1149	6.60	2760	7.8	26.0	7.8
COLOR:	DARK GREEN	16...	1150	9.80	3030	6.8	25.5	9.1
		16...	1151	13.1	3110	6.8	15.5	6.5
VEGETATION: WOODS, MARSHES		16...	1152	16.4	3160	6.9	13.0	5.2
		16...	1153	19.7	3210	6.9	12.0	3.6
REMARKS: VERY IRREGULAR SHORELINE. MUCH ALGAE AND AQUATIC WEEDS.		16...	1154	23.0	3280	6.8	11.5	2.1
		16...	1155	26.2	3350	6.8	11.5	1.3
		16...	1156	29.5	3580	6.8	11.5	.9
		16...	1157	32.8	3660	6.8	11.5	.9
		16...	1158	36.1	3720	6.8	11.5	.9
		16...	1159	39.4	3750	6.7	11.5	.9
		16...	1200	42.6	3760	6.7	11.5	.9
		16...	1201	45.9	3760	6.7	11.0	.9
		16...	1202	49.2	3780	6.8	11.0	.9
		16...	1203	52.5	3820	6.8	11.0	.9
		16...	1204	54.1	3860	6.9	10.5	.9

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 6 - CRAB ORCHARD QUADRANGLE (FIG. 5)

STATION ID:	373955088470701	WATER-QUALITY DATA					
LAKE LAT-LONG:	373956 0884634						
LAKE NAME:	UNNAMED LAKE NO. 4 NEAR STONEFORT, IL						
LAKE SIZE (ACRES):	35.7			Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)	
MAXIMUM DEPTH (FEET):	49.0		Time	Sam- pling depth (feet)		Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.09	Date					
MAXIMUM LENGTH (MILES):	0.72	June					
TRANSPARENCY (SECCHI DISC) (FEET):	4.9	10...	1300	.00	2400	7.3	9.1
		10...	1301	3.30	2400	7.3	9.2
		10...	1302	6.60	2670	6.4	7.1
		10...	1303	9.80	2510	6.4	6.3
		10...	1304	13.1	2490	6.3	5.7
VEGETATION:	GRASSES	10...	1305	16.4	2500	6.4	5.2
		10...	1306	19.7	2590	6.4	4.4
		10...	1307	23.0	2720	6.4	3.1
AIR TEMPERATURE (DEG C):	31.0	10...	1308	26.2	2880	6.4	2.3
		10...	1309	29.5	2880	6.4	1.8
		10...	1310	32.8	3000	6.4	1.5
REMARKS:	SLOPING SPOIL BANKS. OUTLET PRESENT.	10...	1311	36.1	3150	6.5	1.4
		10...	1312	39.4	3390	6.5	1.4
		10...	1313	42.6	4030	6.4	1.3
		10...	1314	45.9	4220	6.3	1.3

LAKE NO. 7 - CRAB ORCHARD QUADRANGLE (FIG. 5)

STATION ID: 374001088451901		WATER-QUALITY DATA					
LAKE LAT-LONG: 373929 0884549							
LAKE NAME: UNNAMED LAKE NO. 3 NEAR STONEFORT, IL							
LAKE SIZE (ACRES):	117.			Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	72.0	Date	Time	Sam- pling depth (feet)			
MAXIMUM WIDTH (MILES):	0.18	June					
MAXIMUM LENGTH (MILES):	1.63	14...	0910	.00	1500	3.3	8.3
TRANSPARENCY (SECCHI DISC) (FEET): 17.7		14...	0911	3.30	1500	3.3	8.1
		14...	0912	6.60	1500	3.3	8.1
		14...	0913	9.80	1500	3.3	8.0
COLOR: GREEN		14...	0914	13.1	1500	3.3	8.0
		14...	0915	16.4	1600	3.3	8.6
		14...	0916	19.7	1760	3.0	6.9
VEGETATION: GRASSES		14...	0917	23.0	1890	2.9	8.0
		14...	0918	26.2	2050	2.8	6.7
		14...	0919	29.5	2140	2.9	4.9
AIR TEMPERATURE (DEG C): 25.0		14...	0920	32.8	3220	3.2	1.8
REMARKS: GENTLY SLOPING SHORE.		14...	0921	36.1	5160	5.6	1.5
		14...	0922	39.4	5250	5.8	1.4
		14...	0923	42.6	5400	5.8	1.4
		14...	0924	45.9	5440	5.9	1.4
		14...	0925	49.2	5490	5.9	1.4
		14...	0926	52.5	5560	5.9	1.3
		14...	0927	55.8	5620	6.0	1.4
		14...	0928	59.0	5690	6.0	1.4
		14...	0929	62.3	5790	6.1	1.4
		14...	0930	65.6	5960	6.2	1.4

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 8 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID:	374019088413701							
LAKE LAT-LONG:	374020 0884055	WATER-QUALITY DATA						
LAKE NAME:	UNNAMED LAKE NO. 3 NEAR CARRIER MILLS, IL							
LAKE SIZE (ACRES):	47.5							
MAXIMUM DEPTH (FEET):	32.0							
MAXIMUM WIDTH (MILES):	0.08							
MAXIMUM LENGTH (MILES):	1.70							
TRANSPARENCY (SECCHI DISC) (FEET):	7.5							
REMARKS: SHORELINE EVEN ALONG FINAL CUT, OTHERWISE IRREGULAR. OUTLET PRESENT. WATER CLEAR.								
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		June						
		10...	1131	.00	673	7.0	24.5	8.2
		10...	1132	3.30	666	7.3	24.5	7.9
		10...	1133	6.60	728	7.1	22.5	7.3
		10...	1134	9.80	1150	6.7	16.0	5.7
		10...	1135	13.1	1660	6.5	14.5	5.3
		10...	1136	16.4	2040	6.5	13.0	2.8
		10...	1137	19.7	2150	6.5	12.0	1.6
		10...	1138	23.0	2290	6.6	11.5	1.3
		10...	1139	26.2	2390	6.6	11.5	1.3
		10...	1140	29.5	2560	6.6	11.0	1.3

LAKE NO. 9 - SHAWNEETOWN QUADRANGLE (FIG. 17)

STATION ID:	374029088135201							
LAKE LAT-LONG:	374033 0881401	WATER-QUALITY DATA						
LAKE NAME:	UNNAMED LAKE NO. 2 NEAR SHAWNEETOWN, IL							
LAKE SIZE (ACRES):	210.							
MAXIMUM DEPTH (FEET):	17.0							
MAXIMUM WIDTH (MILES):	0.35							
MAXIMUM LENGTH (MILES):	0.64							
TRANSPARENCY (SECCHI DISC) (FEET):	14.4							
REMARKS: FRESH WATER IMPOUNDMENT FOR PROCESSING PLANT. THICK AQUATIC VEGETATION. WATER VERY CLEAR. OUTLET PRESENT.								
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		June						
		16...	1302	.00	849	9.6	26.5	9.7
		16...	1303	3.30	875	9.4	26.5	9.4
		16...	1304	4.90	875	9.3	26.5	9.3
		16...	1305	6.60	875	9.2	26.0	9.4
		16...	1306	8.20	878	9.1	25.5	9.2
		16...	1307	9.80	887	8.6	25.5	8.4
		16...	1308	11.5	913	7.8	25.0	7.1
		16...	1309	13.1	1050	7.1	23.5	6.2
		16...	1310	14.8	1140	6.4	20.0	4.3
		16...	1311	16.4	1170	7.1	18.0	2.6

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 10 - SHAWNEETOWN QUADRANGLE (FIG. 17)

STATION ID:	374040088123201	WATER-QUALITY DATA						
LAKE LAT-LONG:	374025 0881237							
LAKE NAME:	UNNAMED LAKE NO. 1 NEAR SHAWNEETOWN, IL							
LAKE SIZE (ACRES):	13.0							
MAXIMUM DEPTH (FEET):	36.0	Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM WIDTH (MILES):	0.06							
MAXIMUM LENGTH (MILES):	0.34	June						
TRANSPARENCY (SECCHI DISC)		16...	1400	.00	2110	7.8	28.5	9.0
(FEET):	3.6	16...	1401	3.30	2120	7.9	27.0	9.2
COLOR:	DARK GREEN	16...	1402	6.60	2440	6.9	24.5	11.3
VEGETATION:	GRASSES	16...	1403	9.80	2510	4.8	15.5	9.8
REMARKS:	SLOPING SPOIL.	16...	1404	13.1	2570	6.4	12.0	8.4
		16...	1405	16.4	2690	6.6	11.0	6.5
		16...	1406	19.7	2760	6.7	10.5	4.9
		16...	1407	23.0	2870	6.7	10.5	3.6
		16...	1408	26.2	2960	6.7	10.5	2.8
		16...	1409	29.5	3030	6.7	10.5	2.0
		16...	1410	32.8	3170	6.7	10.5	1.6
		16...	1411	34.4	3230	6.6	10.5	1.6

LAKE NO. 11 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID:	374042088395101	WATER-QUALITY DATA						
LAKE LAT-LONG:	374025 0883958							
LAKE NAME:	UNNAMED LAKE NO. 2 NEAR CARRIER MILLS, IL							
LAKE SIZE (ACRES):	56.3							
MAXIMUM DEPTH (FEET):	33.0	Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM WIDTH (MILES):	0.07							
MAXIMUM LENGTH (MILES):	1.57	June						
TRANSPARENCY (SECCHI DISC)		10...	1011	.00	865	7.3	25.0	8.4
(FEET):	7.4	10...	1012	3.30	866	7.6	24.5	7.9
VEGETATION:	GRASSES	10...	1013	6.60	925	7.4	23.5	8.1
AIR TEMPERATURE (DEG C):	30.0	10...	1014	9.80	1030	7.2	21.0	7.5
REMARKS:	SLOPING SPOIL.	10...	1015	13.1	1540	6.8	15.5	4.5
MARSHY AT NORTHEAST END OF LAKE.		10...	1016	16.4	2100	6.6	13.0	1.8
		10...	1017	19.7	2630	6.6	12.5	1.4
		10...	1018	23.0	3110	6.6	12.0	1.3
		10...	1019	26.2	3290	6.6	12.0	1.2
		10...	1020	29.5	3420	6.6	11.5	1.2
		10...	1021	32.8	3460	6.6	11.5	1.2

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 12 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID: 374052088412301

LAKE LAT-LONG: 374048 0884112

WATER-QUALITY DATA

LAKE NAME: UNNAMED LAKE NO. 4 NEAR
CARRIER MILLS, IL

LAKE SIZE (ACRES): 16.4

MAXIMUM DEPTH (FEET): 15.0

MAXIMUM WIDTH (MILES): 0.07

MAXIMUM LENGTH (MILES): 0.91

TRANSPARENCY (SECCHI DISC)
(FEET): 4.9

VEGETATION: WOODS, BRUSH

AIR TEMPERATURE (DEG C): 28.0

REMARKS: VERY NARROW, UNIFORM
CHANNEL. STEEP SPOIL BANKS TO
NORTH, FARMLAND TO SOUTH.
WATER PUMPED OUT FOR MINE USE.

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
June						
09...	1216	.00	556	6.4	25.0	8.9
09...	1217	1.60	556	6.8	24.0	8.7
09...	1218	3.30	550	7.0	23.5	8.7
09...	1219	4.90	562	7.1	23.5	8.8
09...	1220	6.60	713	6.9	22.5	8.8
09...	1221	8.20	629	6.9	19.5	8.1
09...	1222	9.80	555	6.9	16.5	6.9
09...	1223	11.5	564	6.9	14.5	4.0
09...	1224	13.1	585	6.8	12.5	2.6

LAKE NO. 13 - HARRISBURG QUADRANGLE (FIG. 10)

STATION ID: 374118088345801

LAKE LAT-LONG: 374110 0883431

WATER-QUALITY DATA

LAKE NAME: UNNAMED LAKE NO. 1 NEAR
LEDFOED, IL

LAKE SIZE (ACRES): 15.8

MAXIMUM DEPTH (FEET): 38.0

MAXIMUM WIDTH (MILES): 0.03

MAXIMUM LENGTH (MILES): 0.80

TRANSPARENCY (SECCHI DISC)
(FEET): 5.2

VEGETATION: WOODS

REMARKS: WATER MURKY.

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
June						
14...	1450	.00	185	6.7	28.5	7.7
14...	1451	3.30	187	6.8	26.5	8.0
14...	1452	6.60	185	6.8	24.5	7.5
14...	1453	9.80	183	6.5	22.0	3.7
14...	1454	13.1	179	6.4	19.0	1.3
14...	1455	16.4	195	6.4	16.5	1.3
14...	1456	19.7	292	6.4	14.0	1.2
14...	1457	23.0	379	6.3	12.0	1.2
14...	1458	26.2	407	6.3	11.5	1.2
14...	1459	29.5	493	6.4	10.5	1.3
14...	1500	32.8	782	6.5	9.5	1.4
14...	1501	36.1	1090	6.7	9.0	1.4

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 14 - CRAB ORCHARD QUADRANGLE (FIG. 5)

STATION ID:	374127088464701	WATER-QUALITY DATA						
LAKE LAT-LONG:	374129 0884625							
LAKE NAME:	UNNAMED LAKE NO. 3 NEAR CRAB ORCHARD, IL							
LAKE SIZE (ACRES):	16.7							
MAXIMUM DEPTH (FEET):	33.0							
MAXIMUM WIDTH (MILES):	0.08							
MAXIMUM LENGTH (MILES):	0.46							
TRANSPARENCY (SECCHI DISC) (FEET):	4.3							
COLOR:	BROWN TO DARK GREEN							
VEGETATION:	RINGED WITH CATTAILS, GRASSES							
REMARKS: GENTLY SLOPING SPOIL BANKS. OUTLET PRESENT.								
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		July						
		19...	1323	.00	1860	7.2	33.0	6.4
		19...	1324	2.00	1860	7.0	32.0	6.3
		19...	1325	4.00	1850	6.6	30.5	5.4
		19...	1326	6.00	2200	6.5	27.0	3.9
		19...	1327	8.00	2300	6.5	25.0	3.1
		19...	1328	10.0	2280	6.4	22.0	2.7
		19...	1329	12.0	2220	6.4	19.5	1.6
		19...	1330	14.0	2200	6.3	18.0	.7
		19...	1331	16.0	2180	6.3	16.0	.2
		19...	1332	18.0	2180	6.3	15.0	.1
		19...	1333	20.0	2170	6.3	13.5	.1
		19...	1334	22.0	2170	6.3	12.5	.1
		19...	1335	24.0	2140	6.2	11.0	.0
		19...	1336	26.0	2160	6.3	10.5	.0
		19...	1337	28.0	2220	6.3	10.0	.0
		19...	1338	30.0	2260	6.4	10.0	.0
		19...	1339	32.0	2280	6.4	9.5	.0

LAKE NO. 15 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID:	374131088384501	WATER-QUALITY DATA						
LAKE LAT-LONG:	374118 0883838							
LAKE NAME:	UNNAMED LAKE NO. 1 AT CARRIER MILLS, IL							
LAKE SIZE (ACRES):	12.2				Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	25.0	Date	Time	Sam- pling depth (feet)				
MAXIMUM WIDTH (MILES):	0.03							
MAXIMUM LENGTH (MILES):	0.61	June						
TRANSPARENCY (SECCHI DISC) (FEET):	3.6	09...	1640	.00	229	6.4	26.0	8.4
		09...	1641	3.30	230	6.5	23.5	7.8
		09...	1642	6.60	234	6.5	20.5	5.5
		09...	1643	9.80	284	6.3	15.0	2.3
		09...	1644	13.1	311	6.3	12.5	2.9
		09...	1645	16.4	348	6.3	11.5	2.4
		09...	1646	19.7	470	6.3	11.5	1.8
		09...	1647	21.3	493	6.3	11.0	1.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 16 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID:	374136088420001	WATER-QUALITY DATA						
LAKE LAT-LONG:	374114 0884154							
LAKE NAME:	UNNAMED LAKE NO. 5 NEAR CARRIER MILLS, IL							
LAKE SIZE (ACRES):	21.1	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)		
MAXIMUM DEPTH (FEET):	45.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.05							
MAXIMUM LENGTH (MILES):	1.23	June						
TRANSPARENCY (SECCHI DISC) (FEET):	35.4	09...	1356	.00	1110	7.8	25.0	9.1
		09...	1357	1.60	1110	7.9	24.5	9.0
		09...	1358	3.30	1110	7.9	23.0	9.0
		09...	1359	6.60	1110	8.0	22.5	9.0
		09...	1400	9.80	1270	7.4	19.0	7.3
VEGETATION:	WOODS, BRUSH	09...	1401	13.1	1320	7.2	15.5	6.5
		09...	1402	16.4	1370	7.2	14.0	5.6
REMARKS: VERY IRREGULAR SHORELINE, IN AND OUT OF OLD SPOIL MATERIAL. ROCK HIGHWALL ALONG NORTH EDGE OF LAKE.		09...	1403	19.7	1400	7.1	12.5	4.2
		09...	1404	23.0	1430	7.1	11.5	3.9
		09...	1405	26.2	1520	7.0	11.5	2.9
		09...	1406	29.5	1650	7.0	11.0	2.2
		09...	1407	32.8	1730	6.9	10.0	2.0
		09...	1408	36.1	1900	6.8	10.0	2.5
		09...	1409	39.4	2120	6.7	9.5	2.2
		09...	1410	41.0	2150	6.7	9.5	1.7

LAKE NO. 17 - HARRISBURG QUADRANGLE (FIG. 10)

STATION ID:	374224088315101	WATER-QUALITY DATA						
LAKE LAT-LONG:	374220 0883149							
LAKE NAME:	UNNAMED LAKE NO. 1 AT PANKEYVILLE, IL							
LAKE SIZE (ACRES):	23.1							
MAXIMUM DEPTH (FEET):	46.0							
MAXIMUM WIDTH (MILES):	0.06							
MAXIMUM LENGTH (MILES):	0.47							
TRANSPARENCY (SECCHI DISC) (FEET):	5.9							
COLOR:	DARK GREEN							
VEGETATION:	WOODS							
AIR TEMPERATURE (DEG C):	27.0							
REMARKS:	THICK VEGETATION ON VERY IRREGULAR SHORELINE. SEVERAL ISLANDS AND SHALLOW AREAS.							
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		June						
		15...	1321	.00	305	8.4	28.5	9.2
		15...	1322	3.30	311	8.6	27.0	9.2
		15...	1323	6.60	312	8.6	26.5	9.1
		15...	1324	9.80	311	8.0	22.5	8.1
		15...	1325	11.5	308	7.3	20.5	5.1
		15...	1326	13.1	306	7.6	19.5	2.4
		15...	1327	16.4	317	7.2	17.0	1.0
		15...	1328	19.7	363	7.1	14.5	.9
		15...	1329	23.0	387	7.3	12.0	1.5
		15...	1330	26.2	399	7.3	9.5	1.4
		15...	1331	29.5	429	7.3	8.0	1.2
		15...	1332	32.8	1100	7.1	8.0	1.2
		15...	1333	36.1	2350	6.7	8.5	1.1
		15...	1334	39.4	2400	6.7	8.5	1.1
		15...	1335	42.6	2430	6.7	8.5	1.1
		15...	1336	44.3	2450	6.6	8.5	1.1

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 18 - CRAB ORCHARD QUADRANGLE (FIG. 5)

STATION ID:	374240088464701	WATER-QUALITY DATA						
LAKE LAT-LONG:	374227 0884701							
LAKE NAME:	UNNAMED LAKE NO. 4 NEAR CRAB ORCHARD, IL							
LAKE SIZE (ACRES):	10.8	Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)	
MAXIMUM DEPTH (FEET):	17.0							
MAXIMUM WIDTH (MILES):	0.06	July						
MAXIMUM LENGTH (MILES):	0.65	19...	1157	.00	1150	7.6	30.5	8.0
TRANSPARENCY (SECCHI DISC) (FEET):	9.8	19...	1158	1.60	1160	7.6	30.0	7.8
		19...	1159	3.30	1170	7.5	29.5	7.7
		19...	1200	4.90	1170	7.5	29.5	7.2
		19...	1201	6.60	1170	7.5	29.5	6.1
COLOR:	DARK GREEN	19...	1202	8.20	1610	7.1	28.5	12.7
VEGETATION:	WOODS	19...	1203	9.80	1800	6.9	25.5	5.0
		19...	1204	11.5	1920	7.9	18.5	.9
		19...	1205	13.1	2020	7.6	15.5	.9
AIR TEMPERATURE (DEG C):	35.0	19...	1206	14.8	2230	6.9	14.0	1.0
REMARKS:	VERY IRREGULAR SHORELINE. MUCH ALGAE AND AQUATIC WEEDS.							

LAKE NO. 19 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID:	374316088394101	WATER-QUALITY DATA						
LAKE LAT-LONG:	374311 0883942							
LAKE NAME:	UNNAMED LAKE NO. 8 NEAR CARRIER MILLS, IL							
LAKE SIZE (ACRES):	8.8				Spe- cific con- duct- ance	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	43.0	Date	Time	Sam- pling depth (feet)	(μ S/cm)			
MAXIMUM WIDTH (MILES):	0.07							
MAXIMUM LENGTH (MILES):	0.27	June						
TRANSPARENCY (SECCHI DISC)		07...	1440	.00	3190	3.2	24.5	7.6
(FEET):	6.2	07...	1441	3.30	3190	3.2	22.5	7.5
VEGETATION:	WOODS, BRUSH	07...	1442	6.60	3110	3.7	18.0	5.8
AIR TEMPERATURE (DEG C):	27.5	07...	1443	9.80	3090	5.8	13.5	5.9
REMARKS:	IRON RESIDUE INDICATES WATER LEVEL LOW.	07...	1444	13.1	3120	6.2	11.5	5.7
		07...	1445	16.4	3140	6.4	10.5	5.8
		07...	1446	19.7	3150	6.4	10.0	5.7
		07...	1447	23.0	3170	6.5	9.5	5.8
		07...	1448	26.2	3170	6.5	8.5	6.0
		07...	1449	29.5	3180	6.4	8.0	6.2
		07...	1450	32.8	3190	6.4	8.0	6.4
		07...	1451	36.1	3190	6.4	8.0	6.4
		07...	1452	39.4	3200	6.3	8.0	6.2
		07...	1453	42.6	3180	6.4	8.0	4.2

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 20 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID:		374326088391201		WATER-QUALITY DATA											
LAKE LAT-LONG:		374250 0883847													
LAKE NAME:		UNNAMED LAKE NO. 10 NEAR CARRIER MILLS, IL													
LAKE SIZE (ACRES):		39.0		Sam- pling depth (feet)		Spe- cific con- duct- ance (μ S/cm)		pH (stand- ard units)		Oxida- tion reduc- tion poten- tial (mv)		Temper- ature (deg C)		Oxygen, dis- solved (mg/L)	
MAXIMUM DEPTH (FEET):		55.0		Date											
MAXIMUM WIDTH (MILES):		0.08		Time											
MAXIMUM LENGTH (MILES):		1.27		June											
TRANSPARENCY (SECCHI DISC)				06...		1517		.00		3860		7.2		236	
(FEET):		5.7		06...		1518		3.30		4000		6.8		249	
COLOR:		GREEN		06...		1519		6.60		4730		6.7		252	
VEGETATION:		WOODS		06...		1520		9.80		4770		6.8		252	
				06...		1521		13.1		4810		6.8		251	
				06...		1522		16.4		4800		6.8		251	
				06...		1523		19.7		4820		6.8		251	
				06...		1524		23.0		5070		6.8		249	
				06...		1525		26.2		5360		6.9		238	
REMARKS:		SEE ALSO 374326088385802.		06...		1526		29.5		5480		6.9		224	
SHALLOW SILL SEPARATES LAKE SECTIONS.				06...		1527		32.8		5470		7.0		221	
				06...		1528		36.1		5570		7.0		216	
				06...		1529		39.4		5640		7.0		206	
				06...		1530		42.6		5710		7.0		145	
				06...		1531		45.9		5740		7.0		81	
				06...		1532		49.2		5750		7.0		54	
				06...		1533		52.5		5790		7.0		12	

STATION ID:		374326088385802		WATER-QUALITY DATA						
LAKE LAT-LONG:		374250 0883847								
LAKE NAME:		UNNAMED LAKE NO. 10 NEAR CARRIER MILLS, IL								
LAKE SIZE (ACRES):		39.0			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxida- tion reduc- tion poten- tial (mv)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):		50.0		Date	Time					
MAXIMUM WIDTH (MILES):		0.08								
MAXIMUM LENGTH (MILES):		1.27		June						
		06...		1546	.00	3940	7.3	209	23.0	7.8
		06...		1547	3.30	3920	7.2	216	23.0	7.6
TRANSPARENCY (SECCHI DISC)		06...		1548	6.60	4230	6.9	227	20.5	5.9
(FEET):		5.9		06...	1549	9.80	4430	6.8	229	19.0
				06...	1550	13.1	4440	6.8	229	17.5
COLOR:		GREEN		06...	1551	16.4	4360	6.8	231	15.0
				06...	1552	19.7	4310	6.9	232	13.0
VEGETATION:		WOODS		06...	1553	23.0	4300	6.9	233	11.0
				06...	1554	26.2	4400	7.0	231	10.0
REMARKS:		SEE ALSO 374326088391201.		06...	1555	29.5	4520	7.1	229	9.5
SHALLOW SILL SEPARATES TWO SECTIONS				06...	1556	32.8	4590	7.0	224	9.5
OF LAKE.				06...	1557	36.1	4630	7.0	208	9.5
				06...	1558	39.4	4670	7.0	191	9.5
				06...	1559	42.6	4690	7.0	142	9.5
				06...	1600	45.9	4710	7.0	99	9.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 21 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID:	374329088383901	WATER-QUALITY DATA						
LAKE LAT-LONG:	374308 0883834							
LAKE NAME:	UNNAMED LAKE NO. 11 NEAR CARRIER MILLS, IL							
LAKE SIZE (ACRES):	16.7			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	50.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.10	June						
MAXIMUM LENGTH (MILES):	0.40	07...	1259	.00	3540	7.7	22.5	9.4
		07...	1300	3.30	2890	7.8	20.5	9.1
TRANSPARENCY (SECCHI DISC)		07...	1301	6.60	2910	7.8	20.0	9.2
(FEET):	9.2	07...	1302	9.80	2910	7.7	19.5	9.3
		07...	1303	13.1	2900	7.7	18.0	9.6
AIR TEMPERATURE (DEG C):	26.0	07...	1304	16.4	2950	7.7	15.0	10.6
		07...	1305	19.7	2990	7.9	12.5	11.7
		07...	1306	23.0	3000	8.0	11.0	11.6
		07...	1307	26.2	3690	7.9	10.0	12.3
		07...	1308	29.5	3700	7.9	9.5	11.8
		07...	1309	32.8	3690	7.9	8.5	11.4
		07...	1310	36.1	3020	7.9	8.0	11.0
		07...	1311	39.4	3020	7.8	8.0	10.8
		07...	1312	42.6	3020	7.8	8.0	10.8
		07...	1313	45.9	3020	7.8	8.0	10.0
		07...	1314	49.2	3010	7.7	8.0	9.0

LAKE NO. 22 - CARRIER MILLS QUADRANGLE (FIG. 4)

STATION ID:	374334088422601	WATER-QUALITY DATA						
LAKE LAT-LONG:	374305 0884227							
LAKE NAME:	UNNAMED LAKE NO. 6 NEAR CARRIER MILLS, IL							
LAKE SIZE (ACRES):	16.8				Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	35.0	Date	Time	Sam- pling depth (feet)				
MAXIMUM WIDTH (MILES):	0.07							
MAXIMUM LENGTH (MILES):	0.61	June						
		09...	1005	.00	3250	7.5	23.0	10.8
		09...	1006	3.30	3350	7.5	22.5	10.6
TRANSPARENCY (SECCHI DISC)		09...	1007	6.60	3350	7.5	22.5	10.4
(FEET):	24.6	09...	1008	9.80	3390	7.7	19.5	14.6
		09...	1009	13.1	3450	7.6	16.5	13.9
AIR TEMPERATURE (DEG C):	25.0	09...	1010	16.4	3570	7.3	14.5	9.5
		09...	1011	19.7	3670	7.2	13.5	7.4
REMARKS:	WATER VERY CLEAR.	09...	1012	23.0	3760	7.1	13.0	6.2
	MUCH AQUATIC VEGETATION.	09...	1013	26.2	3830	7.1	12.5	7.9
		09...	1014	29.5	3870	7.0	12.5	8.2

STATION ID:		WATER-QUALITY DATA						
LAKE LAT-LONG:								
LAKE NAME: UNNAMED LAKE NO. 1 NEAR CRAB ORCHARD, IL								
LAKE SIZE (ACRES):	41.2			Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	31.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.05	July						
MAXIMUM LENGTH (MILES):	1.87	19...	1557	.00	3550	7.7	32.0	8.1
		19...	1558	2.00	3550	7.7	32.0	8.1
TRANSPARENCY (SECCHI DISC)		19...	1559	4.00	3540	7.7	31.5	8.2
(FEET):	7.2	19...	1600	6.00	3590	7.3	28.5	18.4
		19...	1601	8.00	3660	6.9	24.0	10.8
COLOR:	AQUA GREEN	19...	1602	10.0	3830	6.7	20.0	.7
		19...	1603	12.0	3820	6.6	17.5	.3
VEGETATION:	GRASSES	19...	1604	14.0	3810	6.6	16.0	.3
		19...	1605	16.0	3830	6.6	15.0	.3
AIR TEMPERATURE (DEG C):	36.0	19...	1606	18.0	3900	6.6	14.0	.3
		19...	1607	20.0	4000	6.5	13.0	.3
REMARKS:	VERY STEEP SHORE AND	19...	1608	22.0	4070	6.5	12.5	.2
	VERTICAL ROCK HIGHWALLS.	19...	1609	24.0	4120	6.5	12.5	.2
	OUTLET PRESENT.	19...	1610	26.0	4120	6.5	12.0	.3
		19...	1611	28.0	4140	6.5	12.0	.3
		19...	1612	30.0	4140	6.5	12.0	.3

STATION ID:		374351088412001					
LAKE LAT-LONG:		374347 0884055					
LAKE NAME:		UNNAMED LAKE NO. 7 NEAR CARRIER MILLS, IL					
LAKE SIZE (ACRES):		76.2					
MAXIMUM DEPTH (FEET):		52.0					
MAXIMUM WIDTH (MILES):		0.05					
MAXIMUM LENGTH (MILES):		1.3S					
TRANSPARENCY (SECCHI DISC) (FEET):		3.0					
COLOR:		BROWN					
VEGETATION:		WOODS, GRASSES					
AIR TEMPERATURE (DEG C):		27.0					
REMARKS:		HIGH SLOPING SPOIL BANKS. OUTLET PRESENT.					
WATER-QUALITY DATA							
Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)	
June							
	08...	1612	.00	2590	6.9	26.5	8.1
	08...	1613	3.30	2850	6.8	23.5	8.0
	08...	1614	6.60	3150	6.5	18.5	5.2
	08...	1615	9.50	3370	6.5	15.5	2.8
	0S...	1616	13.1	3470	6.6	14.0	1.8
	0S...	1617	16.4	3520	6.6	13.0	1.6
	0S...	1618	19.7	3530	6.6	12.5	1.5
	08...	1619	23.0	3640	6.6	12.0	1.5
	08...	1620	26.2	3680	6.6	12.0	1.5
	0S...	1621	29.5	3700	6.7	12.0	1.5
	08...	1622	32.8	3750	6.6	12.0	1.4
	08...	1623	36.1	3810	6.6	12.0	1.4
	0S...	1624	39.4	3870	6.6	12.0	1.4
	08...	1625	42.6	3950	6.6	12.0	1.4
	08...	1626	45.9	4020	6.6	12.0	1.4

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 25 - CRAB ORCHARD QUADRANGLE (FIG. 5)

STATION ID:	374408088490001	WATER-QUALITY DATA						
LAKE LAT-LONG:	374406 0884906							
LAKE NAME:	UNNAMED LAKE NO. 2 NEAR CRAB ORCHARD, IL							
LAKE SIZE (ACRES):	10.0	Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)	
MAXIMUM DEPTH (FEET):	38.0							
MAXIMUM WIDTH (MILES):	0.07	July						
MAXIMUM WIDTH (MILES):	0.25	19...	1018	.00	982	8.4	31.0	7.5
		19...	1019	2.00	987	8.4	31.0	7.4
TRANSPARENCY (SECCHI DISC)		19...	1020	4.00	986	8.4	31.0	7.3
(FEET):	3.6	19...	1021	6.00	984	8.3	30.0	8.5
		19...	1022	8.00	1010	7.8	26.5	7.4
COLOR:	LIME GREEN	19...	1023	10.0	1050	7.4	24.5	3.5
		19...	1024	12.0	1060	7.2	22.0	.4
VEGETATION:	NONE	19...	1025	14.0	1070	7.1	21.0	.1
		19...	1026	16.0	1070	7.1	20.5	.1
AIR TEMPERATURE (DEG C):	33.0	19...	1027	18.0	1070	7.0	20.5	.1
		19...	1028	20.0	1070	7.0	20.5	.0
REMARKS:	NEW LAKE, STILL GRADING	19...	1029	22.0	1070	7.0	20.5	.0
	SPOIL MATERIAL, NO VEGETATION.	19...	1030	24.0	1070	7.0	20.5	.0
	OUTLET PRESENT.	19...	1031	26.0	1070	7.0	20.5	.0
		19...	1032	28.0	1070	7.0	20.5	.0
		19...	1033	30.0	1080	7.0	20.5	.0
		19...	1034	32.0	1080	6.9	20.0	.0
		19...	1035	34.0	1080	6.9	20.0	.0
		19...	1036	36.0	1090	6.9	20.0	.0
		19...	1037	37.0	1100	6.9	19.5	.0

LAKE NO. 26 - MARION QUADRANGLE (FIG. 12)

STATION ID:	374458088575801							
LAKE LAT-LONG:	374437 0885809	WATER-QUALITY DATA						
LAKE NAME:	UNNAMED LAKE NO. 1 NEAR MARION, IL							
LAKE SIZE (ACRES):	28.4	Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	49.0							
MAXIMUM WIDTH (MILES):	0.12							
MAXIMUM LENGTH (MILES):	0.47	June						
TRANSPARENCY (SECCHI DISC) (FEET): 20.0		17...	1040	.00	2000	7.3	26.0	7.6
		17...	1041	3.30	2000	7.4	25.5	7.5
		17...	1042	6.60	2000	7.4	25.5	7.4
		17...	1043	9.80	2050	7.1	24.5	7.2
		17...	1044	13.1	2190	7.0	20.0	8.9
		17...	1045	16.4	2200	7.2	15.5	8.7
		17...	1046	19.7	2240	7.2	13.5	8.8
		17...	1047	23.0	2300	7.0	12.0	6.7
		17...	1048	26.2	2300	7.0	11.0	6.2
		17...	1049	29.5	2300	7.0	10.0	6.0
REMARKS: VERY IRREGULAR SHORELINE, WITH SEVERAL ISLANDS PRESENT.		17...	1050	32.8	2300	7.0	9.0	5.5
		17...	1051	36.1	2300	7.1	8.5	4.7
		17...	1052	39.4	2330	7.1	8.0	2.5
		17...	1053	42.6	2430	7.1	7.5	1.3
		17...	1054	45.9	2770	7.0	8.0	1.1

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 27 - HERRIN QUADRANGLE (FIG. 11)

STATION ID:	374618089045001	WATER-QUALITY DATA					
LAKE LAT-LONG:	374609 0890514						
LAKE NAME:	UNNAMED LAKE NO. 1 AT CARTERVILLE, IL						
LAKE SIZE (ACRES):	10.5						
MAXIMUM DEPTH (FEET):	31.0						
MAXIMUM WIDTH (MILES):	0.06						
MAXIMUM LENGTH (MILES):	0.57						
TRANSPARENCY (SECCHI DISC) (FEET):	10.6						
COLOR:	DARK GREEN						
VEGETATION:	WOODS						
AIR TEMPERATURE (DEG C):	33.5						
REMARKS:	LARGE ALGAL MATS NEAR SHORE. IRREGULAR SHORELINE. OLD LAKE, UNEVEN BOTTOM.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		Aug.					
		03...	1210	.00	295	9.0	31.5
		03...	1211	2.00	295	9.0	31.0
		03...	1212	4.00	295	9.1	30.5
		03...	1213	6.00	296	9.0	30.5
		03...	1214	8.00	413	8.1	25.5
		03...	1215	10.0	413	7.5	18.5
		03...	1216	12.0	406	7.3	15.5
		03...	1217	14.0	410	7.1	11.5
		03...	1218	16.0	405	7.0	10.0
		03...	1219	18.0	411	6.9	9.0
		03...	1220	20.0	412	6.9	8.5
		03...	1221	22.0	413	6.9	8.5
		03...	1222	24.0	416	6.8	8.0
		03...	1223	26.0	421	6.7	8.0
		03...	1224	28.0	428	6.7	8.0
		03...	1225	30.0	433	6.7	8.0

LAKE NO. 28 - HERRIN QUADRANGLE (FIG. 11)

STATION ID:	374619089023401	WATER-QUALITY DATA					
LAKE LAT-LONG:	374615 0890255						
LAKE NAME:	UNNAMED LAKE NO. 2 AT ENERGY, IL						
LAKE SIZE (ACRES):	20.5						
MAXIMUM DEPTH (FEET):	21.0						
MAXIMUM WIDTH (MILES):	0.06						
MAXIMUM LENGTH (MILES):	0.53						
TRANSPARENCY (SECCHI DISC) (FEET):	2.0						
COLOR:	BROWN GREEN						
VEGETATION:	GRASSES						
AIR TEMPERATURE (DEG C):	37.0						
REMARKS:	GENTLY SLOPING SPOIL. SHALLOW SOFT BOTTOMED LAKE. OUTLET PRESENT.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		Aug.					
		04...	1310	.00	477	8.6	32.5
		04...	1311	2.00	479	8.7	31.5
		04...	1312	4.00	483	8.5	31.0
		04...	1313	6.00	492	7.9	30.0
		04...	1314	8.00	496	7.4	28.5
		04...	1315	10.0	592	7.0	23.5
		04...	1316	12.0	723	6.9	20.5
		04...	1317	14.0	886	6.8	18.5
		04...	1318	16.0	1000	6.8	17.5
		04...	1319	18.0	1200	6.7	16.0
		04...	1320	20.0	1340	6.7	15.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 29 - HERRIN QUADRANGLE (FIG. 11)

STATION ID:	374623089001601	WATER-QUALITY DATA						
LAKE LAT-LONG:	374609 0890030							
LAKE NAME:	UNNAMED LAKE NO. 1 AT ENERGY, IL							
LAKE SIZE (ACRES):	20.6			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	35.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.05	Aug.						
MAXIMUM LENGTH (MILES):	0.98	03...	1029	.00	2650	7.9	31.0	7.2
		03...	1030	2.00	2660	7.9	31.0	7.1
TRANSPARENCY (SECCHI DISC)		03...	1031	4.00	2660	7.9	31.0	7.1
(FEET):	9.2	03...	1032	6.00	2660	7.8	31.0	7.0
		03...	1033	8.00	2660	7.8	30.5	6.8
COLOR:	BROWN TO DARK GREEN	03...	1034	10.0	2790	7.4	29.0	11.6
		03...	1035	12.0	2930	7.2	24.5	11.9
VEGETATION:	WOODS, GRASSES	03...	1036	14.0	2980	7.1	20.0	9.4
		03...	1037	16.0	3040	6.9	17.0	6.6
AIR TEMPERATURE (DEG C):	31.0	03...	1038	18.0	3130	6.7	15.5	4.5
		03...	1039	20.0	3200	6.6	14.0	3.0
REMARKS:	MUCH AQUATIC VEGETATION	03...	1040	22.0	3250	6.5	13.5	2.2
	AND PHRAGMITES PRESENT.	03...	1041	24.0	3320	6.5	12.5	1.8
		03...	1042	26.0	3410	6.4	12.5	1.8
		03...	1043	28.0	3480	6.4	12.0	1.9
		03...	1044	30.0	3610	6.4	11.5	2.1
		03...	1045	32.0	3650	6.4	11.5	2.4
		03...	1046	34.0	3710	6.4	11.5	2.8

LAKE NO. 30 - DE SOTO AND HERRIN QUADRANGLES (FIGS. 6, 11)

STATION ID:	3746480S9073801	WATER-QUALITY DATA						
LAKE LAT-LONG:	374650 0890741							
LAKE NAME:	UNNAMED LAKE NO. 1 AT CAMBRIA, IL							
LAKE SIZE (ACRES):	11.7			Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	49.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.06	Aug.						
MAXIMUM LENGTH (MILES):	0.62	04...	0949	.00	2800	7.2	31.0	8.1
TRANSPARENCY (SECCHI DISC)		04...	0950	2.00	2810	7.3	31.0	7.9
(FEET):	8.5	04...	0951	4.00	2810	7.3	31.0	7.8
COLOR:	DARK GREEN	04...	0952	6.00	2810	7.1	31.0	7.8
VEGETATION:	BRUSH	04...	0953	7.00	2840	7.0	30.0	10.1
AIR TEMPERATURE (DEG C):	31.0	04...	0954	8.00	3100	6.4	28.5	--
REMARKS:	SHORT STEEP SPOIL BANKS, SOME EXPOSED AREAS. OUTLET PRESENT.	04...	0955	9.00	3190	6.4	24.5	16.5
		04...	0956	10.0	3220	6.2	21.5	6.8
		04...	0957	11.0	3260	6.3	20.5	1.4
		04...	0958	12.0	3330	6.3	17.5	.4
		04...	0959	14.0	3370	6.4	14.5	.2
		04...	1000	16.0	3400	6.4	13.5	.2
		04...	1001	18.0	3500	6.4	13.5	.1
		04...	1002	20.0	3590	6.3	13.5	.1
		04...	1003	22.0	3630	6.3	13.0	.0
		04...	1004	24.0	3670	6.3	13.0	.0
		04...	1005	26.0	3740	6.3	13.0	.0
		04...	1006	28.0	3840	6.3	13.0	.0
		04...	1007	30.0	3930	6.4	12.5	.0
		04...	1008	32.0	4040	6.4	12.5	.0
		04...	1009	34.0	4090	6.5	12.5	.0
		04...	1010	36.0	4140	6.5	12.5	.0
		04...	1011	38.0	4250	6.5	12.0	.0
		04...	1012	40.0	4380	6.5	12.0	.0
		04...	1013	42.0	4420	6.6	12.0	.0
		04...	1014	44.0	4450	6.6	12.0	.0
		04...	1015	46.0	4480	6.6	12.0	.0
		04...	1016	48.0	4510	6.6	12.0	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 31 - DE SOTO QUADRANGLE (FIG. 6)

STATION ID:		374802089082501								
LAKE LAT-LONG:		374752 0890811		WATER-QUALITY DATA						
LAKE NAME:		UNNAMED LAKE NO. 1 NEAR BLAIRSVILLE, IL								
LAKE SIZE (ACRES):		27.2								
MAXIMUM DEPTH (FEET):		60.0								
MAXIMUM WIDTH (MILES):		0.06								
MAXIMUM LENGTH (MILES):		0.34								
TRANSPARENCY (SECCHI DISC) (FEET):		15.7								
COLOR:		DARK GREEN								
VEGETATION:		WOODS, BRUSH								
AIR TEMPERATURE (DEG C):		32.0								
REMARKS: SHEER ROCK HIGHWALL, STEEP SPOIL BANKS, WITH A FEW EXPOSED.										
				Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
				July						
				29...	1134	.00	2370	7.6	31.5	7.8
				29...	1135	2.00	2380	7.7	31.0	7.4
				29...	1136	4.00	2380	7.7	31.0	7.3
				29...	1137	6.00	2380	7.8	31.0	7.3
				29...	1138	8.00	2390	7.7	31.0	7.1
				29...	1139	10.0	2580	7.4	29.5	12.7
				29...	1140	12.0	2650	7.4	27.0	14.4
				29...	1141	14.0	2700	7.5	23.5	15.9
				29...	1142	16.0	2710	7.6	20.5	15.7
				29...	1143	18.0	2730	7.5	18.0	14.5
				29...	1144	20.0	2730	7.5	16.0	13.2
				29...	1145	22.0	2740	7.5	14.5	12.9
				29...	1146	24.0	2740	7.6	13.0	13.1
				29...	1147	26.0	2730	7.6	12.0	13.1
				29...	1148	28.0	2730	7.6	11.5	12.9
				29...	1149	30.0	2750	7.6	10.5	12.1
				29...	1150	32.0	2780	7.2	10.5	9.9
				29...	1151	34.0	2850	7.0	10.5	6.2
				29...	1152	36.0	2940	6.9	10.5	2.8
				29...	1153	38.0	3170	6.7	10.5	1.1
				29...	1154	40.0	3840	6.4	11.0	.4
				29...	1155	42.0	3980	6.4	10.0	.0
				29...	1156	44.0	4050	6.3	10.0	.0
				29...	1157	46.0	4210	6.4	9.5	.0
				29...	1158	48.0	4250	6.4	9.5	.0
				29...	1159	50.0	4250	6.4	9.0	.0
				29...	1200	52.0	4260	6.4	9.0	.0
				29...	1201	54.0	4260	6.4	9.0	.0
				29...	1202	56.0	4280	6.4	9.0	.0
				29...	1203	58.0	4300	6.5	9.5	.0
				29...	1204	59.0	4330	6.5	9.5	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 32 - DE SOTO QUADRANGLE (FIG. 6)

STATION ID: 374956089141001							
LAKE LAT-LONG: 374953 0891409		WATER-QUALITY DATA					
LAKE NAME: UNNAMED LAKE NO. 1 NEAR DE SOTO, IL							
LAKE SIZE (ACRES): 14.1				Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET): 45.0		Date	Time	Sam- pling depth (feet)			
MAXIMUM WIDTH (MILES): 0.09		July					
MAXIMUM LENGTH (MILES): 0.53		28...	0927	.00	2990	7.2	30.5 9.8
TRANSPARENCY (SECCHI DISC) (FEET): 9.8		28...	0928	2.00	3000	7.2	30.5 9.4
		28...	0929	4.00	3000	7.2	30.5 9.2
		28...	0930	6.00	3000	7.2	30.5 9.1
		28...	0931	8.00	3000	7.2	30.5 9.1
COLOR: DARK GREEN		2S...	0932	10.0	3260	6.4	26.5 18.5
VEGETATION: GRASSES		28...	0933	12.0	3290	6.3	23.0 13.3
		28...	0934	14.0	3300	6.4	18.0 .7
		28...	0935	16.0	3280	6.3	15.5 .4
		28...	0936	18.0	3290	6.3	14.0 .2
AIR TEMPERATURE (DEG C): 31.0		28...	0937	20.0	3290	6.3	13.5 .2
REMARKS: SHORT, STEEP SPOIL.		28...	0938	22.0	3300	6.3	13.0 .1
		28...	0939	24.0	3310	6.3	13.0 .1
		28...	0940	26.0	3330	6.2	12.5 .1
		2S...	0941	28.0	3360	6.2	12.5 .1
		28...	0942	30.0	3380	6.2	12.5 .0
		2S...	0943	32.0	3380	6.2	12.0 .0
		28...	0944	34.0	3380	6.2	11.0 .0
		2S...	0945	36.0	3390	6.3	11.0 .0
		28...	0946	38.0	3390	6.3	10.5 .0
		28...	0947	40.0	3390	6.3	10.5 .0
		28...	0948	42.0	3400	6.3	10.0 .0
		2S...	0949	44.0	3400	6.3	10.0 .0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 33 - DE SOTO AND MURPHYSBORO QUADRANGLES (FIGS. 6, 13)

STATION ID: 375043089143101							
LAKE LAT-LONG: 375015 0891525		WATER-QUALITY DATA					
LAKE NAME: UNNAMED LAKE NO. 2 NEAR DE SOTO, IL							
LAKE SIZE (ACRES):	48.8			Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	59.0	Date	Time	Sam- pling depth (feet)			
MAXIMUM WIDTH (MILES):	0.12	July					
MAXIMUM LENGTH (MILES):	0.62	26...	1442	.00	2410	7.3	31.5
		26...	1443	2.00	2420	7.3	31.5
TRANSPARENCY (SECCHI DISC)		26...	1444	4.00	2420	7.3	31.0
(FEET):	10.2	26...	1445	6.00	2420	7.3	31.0
		26...	1446	8.00	2430	7.3	31.0
COLOR:	DARK GREEN	26...	1447	10.0	2740	6.7	29.5
		26...	1448	12.0	2870	6.5	25.5
VEGETATION:	WOODS	26...	1449	14.0	3020	6.4	22.0
		26...	1450	16.0	3110	6.4	20.0
AIR TEMPERATURE (DEG C):	32.0	26...	1451	18.0	3130	6.4	18.5
		26...	1452	20.0	3170	6.3	17.5
REMARKS:	IRREGULAR BOTTOM.	26...	1453	22.0	3160	6.3	16.0
	MUCH AQUATIC VEGETATION.	26...	1454	24.0	3210	6.3	15.5
		26...	1455	26.0	3220	6.3	14.5
		26...	1456	28.0	3230	6.3	13.5
		26...	1457	30.0	3290	6.3	12.5
		26...	1458	32.0	3320	6.3	12.0
		26...	1459	34.0	3340	6.3	11.5
		26...	1500	36.0	3400	6.3	11.0
		26...	1501	38.0	3480	6.3	10.5
		26...	1502	40.0	3800	6.3	10.5
		26...	1503	42.0	4120	6.3	10.0
		26...	1504	44.0	4680	6.3	10.0
		26...	1505	46.0	5000	6.3	10.0
		26...	1506	48.0	5310	6.3	10.0
		26...	1507	50.0	5430	6.4	10.5
		26...	1508	52.0	5530	6.4	10.5
		26...	1509	54.0	5560	6.6	10.5
		26...	1510	56.0	5590	6.6	10.5
		26...	1511	58.0	5640	6.6	10.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 34 - MURPHYSBORO QUADRANGLE (FIG. 13)

STATION ID:	375046089154401							
LAKE LAT-LONG:	375024 0891547	WATER-QUALITY DATA						
LAKE NAME:	UNNAMED LAKE NO. 5 NEAR DE SOTO, IL							
LAKE SIZE (ACRES):	14.6			Spe- cific				
MAXIMUM DEPTH (FEET):	42.0		Sam- pling	con- duct- ance	pH	Temper- ature	Oxygen, dis- solved	
MAXIMUM WIDTH (MILES):	0.16	Date	Time	depth (feet)	(μ S/cm)	(stand- ard units)	(deg C)	(mg/L)
MAXIMUM LENGTH (MILES):	0.67	July						
TRANSPARENCY (SECCHI DISC)		26...	1115	.00	949	7.4	31.0	7.2
(FEET):	10.5	26...	1116	2.00	948	7.2	31.0	7.2
COLOR:	GREEN TO DARK GREEN	26...	1117	4.00	951	7.2	31.0	7.0
VEGETATION:	WOODS	26...	1118	6.00	953	7.1	30.5	7.1
AIR TEMPERATURE (DEG C):	31.5	26...	1119	8.00	957	7.0	30.5	7.1
REMARKS:	BEAVERS PRESENT.	26...	1120	10.0	990	6.9	30.5	7.3
		26...	1121	12.0	1110	6.5	27.0	10.9
		26...	1122	14.0	1170	6.3	24.0	12.1
		26...	1123	16.0	1200	6.3	20.0	11.4
		26...	1124	18.0	1200	6.3	17.5	11.2
		26...	1125	20.0	1210	6.3	16.0	11.0
		26...	1126	22.0	1230	6.2	15.0	10.7
		26...	1127	24.0	1240	6.1	14.0	9.9
		26...	1128	26.0	1260	6.1	13.0	12.2
		26...	1129	28.0	1280	6.1	12.5	--
		26...	1130	30.0	1320	6.1	12.0	--
		26...	1131	32.0	1430	6.3	11.5	--
		26...	1132	34.0	1800	6.6	11.5	--
		26...	1133	36.0	2250	7.1	11.0	--
		26...	1134	38.0	2580	7.1	11.0	--
		26...	1135	40.0	2730	6.7	10.5	--
		26...	1136	41.0	3200	6.9	10.5	--

LAKE NO. 35 - MURPHYSBORO QUADRANGLE (FIG. 13)

STATION ID:	375058089152001							
LAKE LAT-LONG:	375027 0891541	WATER-QUALITY DATA						
LAKE NAME:	UNNAMED LAKE NO. 4 NEAR DE SOTO, IL							
LAKE SIZE (ACRES):	15.5			Spe- cific				
MAXIMUM DEPTH (FEET):	35.0		Sam- pling	con- duct- ance	pH	Temper- ature	Oxygen, dis- solved	
MAXIMUM WIDTH (MILES):	0.05	Date	Time	depth (feet)	(μ S/cm)	(stand- ard units)	(deg C)	(mg/L)
MAXIMUM LENGTH (MILES):	0.51	July						
TRANSPARENCY (SECCHI DISC)		26...	1240	.00	792	7.6	32.0	6.7
(FEET):	8.8	26...	1241	2.00	793	7.7	31.0	6.5
COLOR:	DARK GREEN TO BROWN	26...	1242	4.00	795	7.7	31.0	6.2
VEGETATION:	WOODS	26...	1243	6.00	794	7.7	30.5	5.9
REMARKS:	IRREGULAR SHORELINE.	26...	1244	8.00	796	7.6	30.5	5.5
		26...	1245	10.0	817	7.3	29.5	2.2
		26...	1246	12.0	823	7.2	26.0	.9
		26...	1247	14.0	832	7.1	21.5	.6
		26...	1248	16.0	833	7.1	18.5	1.2
		26...	1249	18.0	827	7.1	16.0	.7
		26...	1250	20.0	823	7.1	13.5	.4
		26...	1251	22.0	824	7.1	12.5	.3
		26...	1252	24.0	831	7.2	11.0	.3
		26...	1253	26.0	840	7.4	10.5	.3
		26...	1254	28.0	843	7.5	10.0	.2
		26...	1255	30.0	858	7.7	9.0	.2
		26...	1256	32.0	900	7.4	9.0	.2
		26...	1257	34.0	929	7.1	8.5	.2

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 36 - DE SOTO AND MURPHYSBORO QUADRANGLES (FIGS. 6, 13)

STATION ID: 375109089144901								
LAKE LAT-LONG: 375058 0891432		WATER-QUALITY DATA						
LAKE NAME: UNNAMED LAKE NO. 3 NEAR DE SOTO, IL								
LAKE SIZE (ACRES):	54.8				Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	65.0	Date	Time	Sam- pling depth (feet)				
MAXIMUM WIDTH (MILES):	0.17							
MAXIMUM LENGTH (MILES):	1.60	July						
TRANSPARENCY (SECCHI DISC) (FEET):	11.2	26...	1602	.00	1900	7.6	32.0	7.4
		26...	1603	2.00	1890	7.7	32.0	7.3
		26...	1604	4.00	1890	7.4	32.0	7.2
		26...	1605	6.00	1900	7.4	31.5	7.4
COLOR:	DARK GREEN	26...	1606	8.00	1910	7.6	31.0	7.4
		26...	1607	10.0	1920	7.5	31.0	18.6
		26...	1608	12.0	2390	7.7	27.5	--
		26...	1609	14.0	2440	7.8	23.5	--
VEGETATION:	WOODS, GRASSES	26...	1610	16.0	2480	7.1	20.5	--
		26...	1611	18.0	2480	7.1	18.0	--
		26...	1612	20.0	2520	7.3	16.0	--
		26...	1613	22.0	2530	7.3	14.5	--
AIR TEMPERATURE (DEG C):	31.0	26...	1614	24.0	2600	7.3	13.0	--
		26...	1615	26.0	2760	7.3	12.5	--
		26...	1616	28.0	2830	7.4	11.5	--
		26...	1617	30.0	2860	7.7	11.0	--
REMARKS: FAIRLY REGULAR SHORELINE. SOME FLOODED DEAD TIMBER.		26...	1618	32.0	2930	7.8	10.5	--
		26...	1619	34.0	2950	7.7	10.5	--
		26...	1620	36.0	2960	7.9	10.0	--
		26...	1621	38.0	3060	8.0	10.5	--
		26...	1622	40.0	3090	7.8	10.0	--
		26...	1623	42.0	3090	7.3	9.5	--
		26...	1624	44.0	3150	7.4	9.0	--
		26...	1625	46.0	3180	7.5	9.0	--
		26...	1626	48.0	3200	7.3	9.0	--
		26...	1627	50.0	3240	7.4	8.5	--
		26...	1628	52.0	3390	7.5	8.5	--
		26...	1629	54.0	3640	7.6	9.0	--
		26...	1630	56.0	3820	7.6	9.0	--
		26...	1631	58.0	3860	7.8	9.0	--
		26...	1632	60.0	3870	8.0	9.0	--
		26...	1633	62.0	3870	8.3	9.5	--

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 37 - MURPHYSBORO AND VERGENNES QUADRANGLES (FIGS. 13, 18)

STATION ID: 375243089165601		WATER-QUALITY DATA					
LAKE LAT-LONG: 375246 0891650							
LAKE NAME: UNNAMED LAKE NO. 6 NEAR ELKVILLE, IL							
LAKE SIZE (ACRES):	24.5			Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	45.0	Date	Time	Sam- pling depth (feet)			
MAXIMUM WIDTH (MILES):	0.09	July					
MAXIMUM LENGTH (MILES):	0.74	26...	0934	.00	2060	7.0	30.0
TRANSPARENCY (SECCHI DISC) (FEET):	3.6	26...	0935	2.00	2070	7.2	30.0
		26...	0936	4.00	2070	7.3	30.0
COLOR: DARK GREEN TO BROWN, LIGHTER GREEN TO SOUTH END.		26...	0937	6.00	2070	7.4	29.5
		26...	0938	8.00	2070	7.4	29.5
VEGETATION: WOODS, GRASSES		26...	0939	10.0	2060	7.3	28.0
		26...	0940	12.0	2030	7.2	25.0
AIR TEMPERATURE (DEG C):	28.5	26...	0941	14.0	1990	7.2	22.0
		26...	0942	16.0	1980	7.2	18.0
REMARKS: SHORT STEEP HIGHWALL, WITH SOME GENTLE SLOPES. OUTLET PRESENT.		26...	0943	18.0	2000	7.2	16.5
		26...	0944	20.0	2040	7.2	14.5
		26...	0945	22.0	2070	7.3	13.0
		26...	0946	24.0	2110	7.3	11.5
		26...	0947	26.0	2120	7.3	11.0
		26...	0948	28.0	2130	7.3	10.5
		26...	0949	30.0	2150	7.3	10.0
		26...	0950	32.0	2170	7.3	10.0
		26...	0951	34.0	2180	7.2	10.0
		26...	0952	36.0	2190	7.2	10.0
		26...	0953	38.0	2220	7.2	10.0
		26...	0954	40.0	2270	7.2	10.0
		26...	0955	42.0	2370	7.1	9.5
		26...	0956	44.0	2450	7.1	9.5

LAKE NO. 38 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID: 375300089155301		WATER-QUALITY DATA					
LAKE LAT-LONG: 375242 0891553							
LAKE NAME: UNNAMED LAKE NO. 7 NEAR ELKVILLE, IL							
LAKE SIZE (ACRES):	10.4			Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	15.0	Date	Time	Sam- pling depth (feet)			
MAXIMUM WIDTH (MILES):	0.06	July					
MAXIMUM LENGTH (MILES):	0.43	27...	1558	.00	2730	7.5	33.5
TRANSPARENCY (SECCHI DISC) (FEET):	2.3	27...	1559	1.00	2740	7.6	33.0
		27...	1600	2.00	2740	7.5	32.5
COLOR: DARK BROWN		27...	1601	3.00	2740	7.6	31.0
		27...	1602	4.00	2760	7.3	29.0
VEGETATION: WOODS		27...	1603	5.00	2770	7.2	29.0
		27...	1604	6.00	2790	7.2	28.5
AIR TEMPERATURE (DEG C):	32.0	27...	1605	7.00	2790	7.2	25.0
		27...	1606	8.00	2790	7.2	24.0
REMARKS: SHALLOW LAKE, SOFT BOTTOM.		27...	1607	9.00	2780	7.3	22.5
		27...	1608	10.0	2800	7.3	21.5
		27...	1609	11.0	2820	7.4	20.0
		27...	1610	12.0	2860	7.4	18.5
		27...	1611	13.0	2870	7.4	17.5
		27...	1612	14.0	2880	7.5	16.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 39 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID:		375310089162101		WATER-QUALITY DATA						
LAKE LAT-LONG:		375307 0891612								
LAKE NAME:		UNNAMED LAKE NO. 1 NEAR ELKVILLE, IL								
LAKE SIZE (ACRES):		16.1		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):		45.0								
MAXIMUM WIDTH (MILES):		0.09								
MAXIMUM LENGTH (MILES):		0.51		July						
TRANSPARENCY (SECCHI DISC) (FEET):		8.8		28...	1335	.00	2550	7.6	31.5	7.6
				28...	1336	2.00	2550	7.7	31.0	7.2
COLOR:		DARK GREEN TO BROWN		28...	1337	4.00	2550	7.7	31.0	7.2
				28...	1338	6.00	2560	7.7	30.5	6.8
VEGETATION:		WOODS, GRASSES		28...	1339	8.00	2570	7.6	30.5	7.0
				28...	1340	10.0	2600	7.2	29.0	7.8
AIR TEMPERATURE (DEG C):		34.0		28...	1341	12.0	2620	7.0	26.5	7.0
				28...	1342	14.0	2620	6.8	24.0	5.3
REMARKS:		EVEN TO IRREGULAR SHORELINE.		28...	1343	16.0	2650	6.7	20.0	3.4
				28...	1344	18.0	2690	6.6	16.5	1.9
				28...	1345	20.0	2690	6.6	14.0	.9
				28...	1346	22.0	2700	6.7	12.5	.2
				28...	1347	24.0	2710	6.8	11.5	.1
				28...	1348	26.0	2700	7.0	10.0	.0
				28...	1349	28.0	2700	7.0	9.0	.0
				28...	1350	30.0	2710	6.9	8.0	.0
				28...	1351	32.0	2710	6.9	7.5	.0
				28...	1352	34.0	2720	6.9	7.0	.0
				28...	1353	36.0	2710	6.8	7.0	.0
				28...	1354	38.0	2720	6.8	7.0	.0
				28...	1355	40.0	2710	6.8	7.0	.0
				28...	1356	42.0	2710	6.7	7.0	.0
				28...	1357	44.0	2720	6.7	7.0	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 40 - VERGENNES QUADRANGLE (FIG. 1S)

STATION ID:		375331089171801								
LAKE LAT-LONG:		375254 0891737		WATER-QUALITY DATA						
LAKE NAME: UNNAMED LAKE NO. 2 NEAR ELKVILLE, IL										
LAKE SIZE (ACRES):		97.7								
MAXIMUM DEPTH (FEET):		52.0								
MAXIMUM WIDTH (MILES):		0.08								
MAXIMUM LENGTH (MILES):		1.53								
TRANSPARENCY (SECCHI DISC (FEET)):		10.8								
COLOR:		DARK GREEN								
VEGETATION:		WOODS, BRUSH								
AIR TEMPERATURE (DEG C):		36.0								
REMARKS:		STEEP IRREGULAR SPOIL. MUCH AQUATIC VEGETATION.								
				Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
				July						
				27...	1304	.00	2220	7.7	31.5	8.1
				27...	1305	2.00	2230	7.6	31.5	7.6
				27...	1306	4.00	2240	7.5	31.0	7.4
				27...	1307	6.00	2240	7.5	31.0	7.3
				27...	1308	8.00	2240	7.5	31.0	7.4
				27...	1309	10.0	2490	7.3	29.5	11.2
				27...	1310	12.0	2600	7.0	26.0	12.6
				27...	1311	14.0	2700	6.9	22.0	10.5
				27...	1312	16.0	2780	6.9	19.5	9.3
				27...	1313	18.0	2900	7.0	17.0	7.1
				27...	1314	20.0	2940	7.0	15.5	5.7
				27...	1315	22.0	2980	7.0	14.5	4.1
				27...	1316	24.0	3000	7.0	13.5	2.9
				27...	1317	26.0	3010	7.0	12.5	3.3
				27...	1318	28.0	3090	7.0	12.0	2.1
				27...	1319	30.0	3130	7.0	11.5	1.6
				27...	1320	32.0	3210	7.0	11.5	.8
				27...	1321	34.0	3360	6.9	11.0	.4
				27...	1322	36.0	3590	6.9	11.0	.3
				27...	1323	38.0	3870	6.8	11.0	.3
				27...	1324	40.0	4100	6.8	10.5	.3
				27...	1325	42.0	4180	6.9	10.5	.2
				27...	1326	44.0	4210	6.9	10.5	.2
				27...	1327	46.0	4330	7.0	10.5	.1
				27...	1328	48.0	4580	7.1	10.5	.0
				27...	1329	50.0	4600	7.2	10.5	.0
				27...	1330	51.0	4610	7.2	10.5	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 41 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID:		375351089160301								
LAKE LAT-LONG:		375336 0891549		WATER-QUALITY DATA						
LAKE NAME:		UNNAMED LAKE NO. 4 NEAR ELKVILLE, IL								
LAKE SIZE (ACRES):		30.2								
MAXIMUM DEPTH (FEET):		62.0								
MAXIMUM WIDTH (MILES):		0.09								
MAXIMUM LENGTH (MILES):		0.69								
TRANSPARENCY (SECCHI DISC)										
(FEET):		9.2								
COLOR:		GREEN								
VEGETATION:		GRASSES								
AIR TEMPERATURE (DEG C):		38.0								
REMARKS:		GENTLE TO STEEP SHORE. FAIRLY NEW LAKE.								
				Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
				July						
				28...	1504	.00	1950	7.6	31.5	7.7
				28...	1505	2.00	1960	7.8	31.5	7.2
				28...	1506	4.00	1960	7.8	31.5	7.1
				28...	1507	6.00	1960	7.9	31.0	7.3
				28...	1508	8.00	1960	7.9	31.0	7.2
				28...	1509	10.0	1960	7.8	30.5	7.0
				28...	1510	12.0	2090	7.1	28.5	4.4
				28...	1511	14.0	2280	7.1	25.5	8.6
				28...	1512	16.0	2370	7.1	21.0	10.6
				28...	1513	18.0	2370	7.1	18.5	10.0
				28...	1514	20.0	2410	7.0	16.5	9.1
				28...	1515	22.0	2450	6.9	15.0	9.0
				28...	1516	24.0	2500	6.7	14.5	8.7
				28...	1517	26.0	2570	6.6	13.5	8.3
				28...	1518	28.0	2650	6.5	13.0	7.0
				28...	1519	30.0	2720	6.4	13.0	5.6
				28...	1520	32.0	2800	6.4	12.5	5.1
				28...	1521	34.0	2920	6.3	12.5	3.8
				28...	1522	36.0	3080	6.3	12.0	2.7
				28...	1523	38.0	3360	6.2	12.0	1.3
				28...	1524	40.0	3710	6.1	12.0	.4
				28...	1525	42.0	3880	6.1	11.5	.0
				28...	1526	44.0	3980	6.1	11.5	.0
				28...	1527	46.0	4070	6.1	11.0	.0
				28...	1528	48.0	4140	6.2	11.0	.0
				28...	1529	50.0	4190	6.2	10.5	.0
				28...	1530	52.0	4210	6.2	10.5	.0
				28...	1531	54.0	4220	6.2	10.5	.0
				28...	1532	56.0	4220	6.3	10.5	.0
				28...	1533	58.0	4240	6.3	10.5	.0
				28...	1534	60.0	4230	6.3	10.5	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 42 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID: 375352089151501

LAKE LAT-LONG: 375310 0891558

WATER-QUALITY DATA

LAKE NAME: UNNAMED LAKE NO. 3 NEAR
ELKVILLE, IL

LAKE SIZE (ACRES): 58.3

MAXIMUM DEPTH (FEET): 62.0

MAXIMUM WIDTH (MILES): 0.06

MAXIMUM LENGTH (MILES): 1.62

TRANSPARENCY (SECCHI DISC)
(FEET): 9.2

COLOR: GREEN

VEGETATION: GRASSES

AIR TEMPERATURE (DEG C): 33.0

REMARKS: SOME EXPOSED SPOIL,
HIGHWALL EXPOSED AND ERODING.

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
July						
28...	1217	.00	2800	7.7	31.5	7.5
28...	1218	2.00	2850	7.7	31.0	7.5
28...	1219	4.00	2860	7.8	31.0	7.3
28...	1220	6.00	2860	7.7	31.0	7.2
28...	1221	8.00	2860	7.7	31.0	7.2
28...	1222	10.0	2860	7.7	30.5	7.1
28...	1223	12.0	2950	7.2	29.0	8.8
28...	1224	14.0	3040	7.0	26.0	9.8
28...	1225	16.0	3140	6.8	22.5	9.7
28...	1226	18.0	3180	6.7	20.0	9.0
28...	1227	20.0	3210	6.7	17.5	7.9
28...	1228	22.0	3220	6.6	15.5	6.6
28...	1229	24.0	3230	6.6	14.5	5.7
28...	1230	26.0	3240	6.5	13.5	4.3
28...	1231	28.0	3250	6.5	13.0	3.2
28...	1232	30.0	3280	6.5	12.5	2.4
28...	1233	32.0	3290	6.4	12.5	1.6
28...	1234	34.0	3320	6.5	12.0	1.1
28...	1235	36.0	3350	6.5	12.0	.6
28...	1236	38.0	3390	6.4	11.5	.3
28...	1237	40.0	3420	6.4	11.5	.2
28...	1238	42.0	3440	6.4	11.5	.0
28...	1239	44.0	3470	6.4	11.0	.0
28...	1240	46.0	3520	6.3	11.0	.0
28...	1241	48.0	3570	6.3	11.0	.0
28...	1242	50.0	3600	6.3	11.0	.0
28...	1243	52.0	3640	6.3	11.0	.0
28...	1244	54.0	3670	6.3	11.0	.0
28...	1245	56.0	3690	6.3	11.0	.0
28...	1246	58.0	3740	6.3	11.0	.0
28...	1247	60.0	3780	6.4	10.5	.0
28...	1248	61.0	3870	6.4	10.5	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 43 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID:	375428089164901	WATER-QUALITY DATA						
LAKE LAT-LONG:	375427 0891656							
LAKE NAME:	UNNAMED LAKE NO. 5 NEAR ELKVILLE, IL							
LAKE SIZE (ACRES):	17.6				Spe- cific con- duct- ance	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	37.0	Date	Time	Sam- pling depth (feet)	(uS/cm)			
MAXIMUM WIDTH (MILES):	0.06	July						
MAXIMUM LENGTH (MILES):	0.85	27...	1429	.00	2430	7.7	32.0	9.2
TRANSPARENCY (SECCHI DISC) (FEET):	7.9	27...	1430	2.00	2440	7.6	32.0	8.5
		27...	1431	4.00	2440	7.5	31.5	8.2
		27...	1432	6.00	2450	7.5	30.5	7.9
		27...	1433	8.00	2730	7.1	29.5	17.3
COLOR:	GREEN	27...	1434	10.0	2910	6.8	25.5	--
		27...	1435	12.0	2960	6.8	22.0	--
VEGETATION:	GRASSES	27...	1436	14.0	2990	6.9	19.5	17.6
		27...	1437	16.0	3040	6.9	17.5	12.8
AIR TEMPERATURE (DEG C):	34.5	27...	1438	18.0	3140	7.0	16.0	6.8
		27...	1439	20.0	3270	7.0	15.0	2.1
REMARKS:	STEEP SPOIL BANKS.	27...	1440	22.0	3430	6.8	14.0	.9
		27...	1441	24.0	3600	6.9	13.5	.8
		27...	1442	26.0	3730	6.9	13.5	.4
		27...	1443	28.0	3810	6.9	13.5	.4
		27...	1444	30.0	3840	6.9	13.0	.4
		27...	1445	32.0	4000	6.9	13.0	.3
		27...	1446	34.0	4330	7.0	12.0	.4
		27...	1447	36.0	4470	7.1	11.5	.2

LAKE NO. 44 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID:	375714089193201	WATER-QUALITY DATA						
LAKE LAT-LONG:	375707 0891934							
LAKE NAME:	UNNAMED LAKE NO. 38 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	18.7			Sam- pling depth (feet)	Spe- cific con- duct- ance (uS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	35.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.09	Aug.						
MAXIMUM LENGTH (MILES):	0.31	02...	1425	.00	618	8.3	32.5	9.3
TRANSPARENCY (SECCHI DISC) (FEET):	9.8	02...	1426	2.00	618	8.6	32.0	9.0
		02...	1427	4.00	621	8.6	31.5	8.7
		02...	1428	6.00	621	8.7	31.5	8.5
		02...	1429	8.00	675	8.3	30.5	9.1
COLOR:	DARK GREEN	02...	1430	10.0	884	7.7	24.5	10.8
		02...	1431	12.0	1050	7.4	21.0	10.1
VEGETATION:	WOODS	02...	1432	14.0	1640	6.8	15.5	.8
		02...	1433	16.0	2250	6.6	13.5	.2
AIR TEMPERATURE (DEG C):	33.0	02...	1434	18.0	2540	6.5	12.0	.1
		02...	1435	20.0	2680	6.5	11.5	.0
REMARKS:	MUCH ALGAE. IRREGULAR SHORELINE. VERY UNEVEN BOTTOM.	02...	1436	22.0	2730	6.4	11.0	.0
		02...	1437	24.0	2800	6.4	11.0	.0
		02...	1438	26.0	2850	6.4	11.0	.0
		02...	1439	28.0	2860	6.5	11.0	.0
		02...	1440	30.0	2890	6.5	11.0	.0
		02...	1441	32.0	2940	6.4	11.0	.0
		02...	1442	34.0	2950	6.4	11.0	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 45 - WILLISVILLE QUADRANGLE (FIG. 19)

STATION ID:	375728089320901	WATER-QUALITY DATA					
LAKE LAT-LONG:	375724 0893210						
LAKE NAME:	UNNAMED LAKE NO. 2 NEAR DENMARK, IL						
LAKE SIZE (ACRES):	60.8						
MAXIMUM DEPTH (FEET):	23.0						
MAXIMUM WIDTH (MILES):	0.26						
MAXIMUM LENGTH (MILES):	0.82						
TRANSPARENCY (SECCHI DISC) (FEET):	2.6						
COLOR:	DARK BROWN TO BLACK						
VEGETATION:	GRASSES						
REMARKS:	FRESH WATER LAKE FOR MINE OPERATION. OUTLET PRESENT.						
		Date	Time	Sam-pling depth (feet)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Oxygen, dis-solved (mg/L)
		July					
		20...	1018	.00	1000	8.7	31.0
		20...	1019	1.60	1000	8.7	31.0
		20...	1020	3.30	1000	8.7	31.0
		20...	1021	4.90	1000	8.6	31.0
		20...	1022	6.60	994	8.0	29.0
		20...	1023	8.20	964	7.6	27.0
		20...	1024	9.80	968	7.5	26.0
		20...	1025	11.5	966	7.4	25.5
		20...	1026	13.1	968	7.3	25.0
		20...	1027	14.8	970	7.3	25.0
		20...	1028	16.4	971	7.3	25.0
		20...	1029	18.0	971	7.2	24.5
		20...	1030	19.7	973	7.2	24.5
		20...	1031	21.3	974	7.2	24.5

LAKE NO. 46 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID:	375757089153501	WATER-QUALITY DATA					
LAKE LAT-LONG:	375756 0891536						
LAKE NAME:	UNNAMED LAKE NO. 31 NEAR DU QUOIN, IL						
LAKE SIZE (ACRES):	13.2						
MAXIMUM DEPTH (FEET):	40.0						
MAXIMUM WIDTH (MILES):	0.05						
MAXIMUM LENGTH (MILES):	0.51						
TRANSPARENCY (SECCHI DISC) (FEET):	11.2						
COLOR:	DARK GREEN						
VEGETATION:	WOODS						
AIR TEMPERATURE (DEG C):	39.0						
		Date	Time	Sam-pling depth (feet)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Oxygen, dis-solved (mg/L)
		July					
		21...	1517	.00	870	8.2	34.0
		21...	1518	2.00	866	8.2	33.5
		21...	1519	4.00	868	8.2	32.5
		21...	1520	6.00	869	8.2	32.0
		21...	1521	8.00	874	8.2	31.5
		21...	1522	10.0	903	8.0	30.5
		21...	1523	12.0	970	7.6	28.0
		21...	1524	14.0	1060	7.4	25.0
		21...	1525	16.0	1130	7.2	22.5
		21...	1526	18.0	1230	7.1	19.5
		21...	1527	20.0	1410	6.9	16.0
		21...	1528	22.0	1590	6.8	13.5
		21...	1529	24.0	1680	6.7	11.5
		21...	1530	26.0	1830	6.5	10.5
		21...	1531	28.0	1920	6.5	10.0
		21...	1532	30.0	1960	6.4	10.0
		21...	1533	32.0	2010	6.4	9.5
		21...	1534	34.0	2040	6.3	9.5
		21...	1535	36.0	2080	6.3	9.5
		21...	1536	38.0	2140	6.5	9.0
		21...	1537	39.0	2180	6.6	9.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 47 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID: 375803089200901		WATER-QUALITY DATA					
LAKE LAT-LONG: 375801 0892009							
LAKE NAME: UNNAMED LAKE NO. 37 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	24.0			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	47.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.16	July					
MAXIMUM LENGTH (MILES):	0.54	20...	1450	.00	2830	7.8	7.5
TRANSPARENCY (SECCHI DISC) (FEET): 7.9		20...	1451	3.30	2840	7.8	7.3
		20...	1452	6.60	2850	7.7	7.3
COLOR: DARK GREEN		20...	1453	9.80	2880	7.4	8.5
		20...	1454	13.1	2900	7.3	7.0
VEGETATION: WOODS, GRASSES		20...	1455	16.4	2910	7.3	4.4
		20...	1456	19.7	2910	7.5	1.8
AIR TEMPERATURE (DEG C): 37.0		20...	1457	23.0	2860	7.6	1.5
		20...	1458	26.2	2890	7.7	1.5
REMARKS: VERY IRREGULAR SHORELINE AND UNEVEN BOTTOM.		20...	1459	29.5	2890	7.7	1.4
		20...	1500	32.8	2890	7.7	1.3
		20...	1501	36.1	2910	7.8	1.4
		20...	1502	39.4	2910	8.1	1.4
		20...	1503	42.6	2910	8.5	1.4
		20...	1504	45.9	2940	8.5	1.3

LAKE NO. 48 - WILLISVILLE QUADRANGLE (FIG. 19)

STATION ID: 375817089301501		WATER-QUALITY DATA					
LAKE LAT-LONG: 375812 0893012							
LAKE NAME: UNNAMED LAKE NO. 1 NEAR DENMARK, IL							
LAKE SIZE (ACRES):	14.6			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	4.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.13	July					
MAXIMUM LENGTH (MILES):	0.24	20...	1132	.00	238	8.1	7.2
TRANSPARENCY (SECCHI DISC) (FEET): 1.3		20...	1133	1.00	238	8.0	6.9
		20...	1134	2.00	237	8.1	6.9
COLOR: GREEN TO BROWN		20...	1135	3.00	238	8.0	6.8
VEGETATION: GRASSES							
AIR TEMPERATURE (DEG C):	35.5						
REMARKS: LAKE FORMED BY SUBSIDENCE.							

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 49 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID: 375905089155001		WATER-QUALITY DATA					
LAKE LAT-LONG: 375851 0891540							
LAKE NAME: UNNAMED LAKE NO. 30 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	13.1			Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	30.0	Date	Time	Sam- pling depth (feet)			
MAXIMUM WIDTH (MILES):	0.05	July					
MAXIMUM LENGTH (MILES):	0.59	18...	1550	.00	954	7.9	32.0
TRANSPARENCY (SECCHI DISC) (FEET):	8.8	18...	1551	1.60	954	7.9	32.0
		18...	1552	3.30	954	7.9	32.0
COLOR:	AQUA GREEN	18...	1553	4.90	955	7.9	30.5
		18...	1554	6.60	963	7.8	30.5
VEGETATION:	BRUSH	18...	1555	8.20	963	7.4	29.0
		18...	1556	9.80	971	7.2	26.0
AIR TEMPERATURE (DEG C):	36.5	18...	1557	11.5	979	7.1	24.0
		18...	1558	13.1	1010	7.0	20.5
REMARKS: 8 SHORT STEEP SPOIL BANKS. OUTLET PRESENT.		18...	1559	14.8	1080	7.0	18.0
		18...	1600	16.4	1160	7.0	16.0
		18...	1601	18.0	1310	7.0	14.5
		18...	1602	19.7	1460	7.0	14.0
		18...	1603	21.3	1670	7.0	12.5
		18...	1604	23.0	1830	7.0	12.5
		18...	1605	24.6	1960	7.0	12.0
		18...	1606	26.2	2260	7.0	11.5
		18...	1607	27.9	2520	7.0	11.0

LAKE NO. 50 - DU QUOIN AND ELKVILLE QUADRANGLES (FIGS. 7, 8)

STATION ID:		375909089134401		WATER-QUALITY DATA						
LAKE LAT-LONG:		375906 0891345								
LAKE NAME:		UNNAMED LAKE NO. 2 AT DU QUOIN, IL								
LAKE SIZE (ACRES):		35.7								
MAXIMUM DEPTH (FEET):		37.0								
MAXIMUM WIDTH (MILES):		0.10								
MAXIMUM LENGTH (MILES):		1.34								
TRANSPARENCY (SECCHI DISC) (FEET):		4.3								
COLOR:		GREEN BROWN								
VEGETATION:		GRASSES								
AIR TEMPERATURE (DEG C):		31.0								
REMARKS:		LITTLE SLOPE TO SPOIL.								
				Aug.						
				Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
				01...	1248	.00	304	7.9	32.5	7.7
				01...	1249	2.00	306	8.0	32.0	7.5
				01...	1250	4.00	308	8.0	32.0	7.4
				01...	1251	6.00	308	7.9	32.0	7.2
				01...	1252	8.00	308	7.8	31.0	6.4
				01...	1253	10.0	320	7.2	28.5	.3
				01...	1254	12.0	325	7.1	26.5	.2
				01...	1255	14.0	336	7.0	22.5	.0
				01...	1256	16.0	341	7.0	20.5	.0
				01...	1257	18.0	346	7.0	18.5	.0
				01...	1258	20.0	353	7.1	17.0	.0
				01...	1259	22.0	358	7.1	16.0	.0
				01...	1300	24.0	363	7.1	15.5	.0
				01...	1301	26.0	367	7.1	14.5	.0
				01...	1302	28.0	372	7.1	14.5	.0
				01...	1303	30.0	377	7.2	14.0	.0
				01...	1304	32.0	380	7.2	13.5	.0
				01...	1305	34.0	382	7.2	13.5	.0
				01...	1306	36.0	388	7.2	13.5	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 51 - WILLISVILLE QUADRANGLE (FIG. 19)

STATION ID:	375923089342601	WATER-QUALITY DATA						
LAKE LAT-LONG:	375904 0893421							
LAKE NAME:	UNNAMED LAKE NO. 2 NEAR WILLISVILLE, IL							
LAKE SIZE (ACRES):	31.1			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	60.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.09							
MAXIMUM LENGTH (MILES):	0.91	June						
TRANSPARENCY (SECCHI DISC) (FEET):	10.5	24...	1302	.00	2670	7.9	28.0	8.3
		24...	1303	2.00	2670	7.9	27.5	8.1
		24...	1304	4.00	2670	7.9	27.0	8.0
		24...	1305	6.00	2750	7.6	26.5	7.3
		24...	1306	8.00	2920	7.2	24.5	5.7
COLOR:	GREEN	24...	1307	10.0	3010	7.0	21.0	3.2
		24...	1308	12.0	3200	6.8	17.5	2.5
VEGETATION:	GRASSES	24...	1309	14.0	3390	6.7	15.5	2.0
		24...	1310	16.0	3590	6.6	14.0	1.1
REMARKS:	VERY STEEP HIGHWALLS, SOME ROCK OUTCROPS.	24...	1311	18.0	3700	6.5	13.5	.6
		24...	1312	20.0	3860	6.4	13.0	.4
		24...	1313	22.0	3920	6.4	12.5	.4
		24...	1314	24.0	3960	6.4	12.0	.4
		24...	1315	26.0	4030	6.3	12.0	.3
		24...	1316	28.0	4120	6.3	11.5	.3
		24...	1317	30.0	4200	6.3	11.0	.3
		24...	1318	32.0	4270	6.3	11.0	.3
		24...	1319	34.0	4330	6.3	11.0	.3
		24...	1320	36.0	4390	6.3	11.0	.3
		24...	1321	38.0	4430	6.3	11.0	.3
		24...	1322	40.0	4440	6.3	11.0	.3
		24...	1323	42.0	4500	6.3	10.5	.3
		24...	1324	44.0	4560	6.4	10.5	.3
		24...	1325	46.0	4600	6.4	10.5	.3
		24...	1326	48.0	4620	6.4	10.5	.3
		24...	1327	50.0	4650	6.4	10.0	.3
24...	1328	52.0	4670	6.5	10.0	.3		
24...	1329	54.0	4690	6.5	10.0	.3		
24...	1330	56.0	4720	6.5	10.0	.3		
24...	1331	58.0	4730	6.5	10.0	.5		
24...	1332	59.0	4760	6.5	10.0	.5		

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 52 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID: 375924089200501

LAKE LAT-LONG: 375926 0892006

WATER-QUALITY DATA

LAKE NAME: UNNAMED LAKE NO. 36 NEAR
DU QUOIN, IL

LAKE SIZE (ACRES): 22.8

MAXIMUM DEPTH (FEET): 15.0

MAXIMUM WIDTH (MILES): 0.10

MAXIMUM LENGTH (MILES): 0.54

TRANSPARENCY (SECCHI DISC)
(FEET): 5.9

COLOR: DARK GREEN

VEGETATION: WOODS, MARSHES

AIR TEMPERATURE (DEG C): 34.5

REMARKS: VERY SHALLOW LAKE, USED
FOR MINE OPERATIONS.
OUTLET PRESENT.

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
July						
14...	1658	.00	3450	8.4	31.0	8.1
14...	1659	1.00	3360	8.3	30.5	8.1
14...	1700	2.00	3400	8.1	28.0	8.7
14...	1701	3.00	3470	8.1	26.5	7.7
14...	1702	4.00	3480	8.1	25.5	6.2
14...	1703	5.00	3480	7.8	25.0	5.7
14...	1704	6.00	3480	7.7	24.5	5.3
14...	1705	7.00	3490	7.6	23.5	3.9
14...	1706	8.00	3490	7.4	23.0	1.0
14...	1707	9.00	3470	7.3	22.0	.0
14...	1708	10.0	3470	7.2	20.5	.0
14...	1709	11.0	3460	7.2	19.0	.0
14...	1710	12.0	3430	7.2	18.0	.0
14...	1711	13.0	3430	7.3	17.0	.0
14...	1712	14.0	3430	7.3	16.5	.0

LAKE NO. 53 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID: 375925089155801

LAKE LAT-LONG: 375910 0891600

WATER-QUALITY DATA

LAKE NAME: UNNAMED LAKE NO. 32 NEAR
DU QUOIN, IL

LAKE SIZE (ACRES): 15.9

MAXIMUM DEPTH (FEET): 22.0

MAXIMUM WIDTH (MILES): 0.08

MAXIMUM LENGTH (MILES): 0.47

TRANSPARENCY (SECCHI DISC)
(FEET): 8.2

COLOR: BROWN TO GREEN

VEGETATION: WOODS, GRASSES

AIR TEMPERATURE (DEG C): 30.5

REMARKS: STEEP SPOIL BANKS.

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
July						
21...	0835	.00	2820	7.2	31.0	8.3
21...	0836	3.30	2850	7.5	31.5	8.2
21...	0837	4.90	2860	7.6	31.0	8.3
21...	0838	6.60	2880	7.3	30.5	10.5
21...	0839	8.20	3090	6.7	27.0	14.3
21...	0840	9.80	3170	6.6	24.0	12.3
21...	0841	11.5	3250	6.5	21.0	10.6
21...	0842	13.1	3300	6.5	19.0	9.4
21...	0843	14.8	3390	6.5	18.0	13.1
21...	0844	16.4	3450	6.4	16.5	9.3
21...	0845	18.0	3530	6.4	15.5	8.5
21...	0846	19.7	3590	6.3	15.0	5.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 54 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID: 375925089195401		WATER-QUALITY DATA					
LAKE LAT-LONG: 375910 0891927							
LAKE NAME: UNNAMED LAKE NO. 35 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	30.1			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	51.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.09	July					
MAXIMUM LENGTH (MILES):	0.72	14...	1515	.00	3230	7.2	30.5
TRANSPARENCY (SECCHI DISC) (FEET): 7.2		14...	1516	2.00	3300	7.2	29.0
		14...	1517	4.00	3400	6.9	29.0
COLOR: DARK GREEN		14...	1518	6.00	3380	6.9	28.5
		14...	1519	8.00	3360	6.9	28.0
VEGETATION: WOODS		14...	1520	10.0	3320	6.9	27.5
		14...	1521	12.0	3300	6.9	26.5
AIR TEMPERATURE (DEG C): 33.5		14...	1522	14.0	3240	6.9	25.5
		14...	1523	16.0	3170	6.8	23.0
REMARKS: IRREGULAR SHORELINE, MANY TREES IN WATER. BEAVERS PRESENT.		14...	1524	18.0	3100	6.8	19.5
		14...	1525	20.0	3080	6.8	17.0
		14...	1526	22.0	3050	6.8	14.5
		14...	1527	24.0	3040	6.9	13.0
		14...	1528	26.0	3090	6.8	11.0
		14...	1529	28.0	3110	6.8	10.5
		14...	1530	30.0	3100	6.8	9.5
		14...	1531	32.0	3120	6.8	9.0
		14...	1532	34.0	3130	6.7	9.0
		14...	1533	36.0	3150	6.7	9.0
		14...	1534	38.0	3170	6.7	9.0
		14...	1535	40.0	3360	6.5	9.0
		14...	1536	42.0	3630	6.5	8.5
		14...	1537	44.0	3640	6.4	8.5
		14...	1538	46.0	3640	6.4	8.5
		14...	1539	48.0	3670	6.5	8.5
		14...	1540	50.0	4070	6.5	8.5

LAKE NO. 55 - VERGENNES QUADRANGLE (FIG. 18)

STATION ID: 375940089180801		WATER-QUALITY DATA					
LAKE LAT-LONG: 375931 0891830							
LAKE NAME: UNNAMED LAKE NO. 34 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	21.5			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	17.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.04	July					
MAXIMUM LENGTH (MILES):	1.03	15...	1330	.00	3750	7.8	30.0
TRANSPARENCY (SECCHI DISC) (FEET): 5.2		15...	1331	1.00	3750	7.6	30.0
		15...	1332	2.00	3760	7.7	29.5
COLOR: DARK GREEN		15...	1333	3.00	3800	7.5	28.5
		15...	1334	4.00	3830	7.4	27.5
VEGETATION: BRUSH, WOODS		15...	1335	5.00	3830	7.5	26.5
		15...	1336	6.00	3770	7.6	25.5
AIR TEMPERATURE (DEG C): 31.0		15...	1337	7.00	3820	7.6	23.5
		15...	1338	8.00	3900	7.5	22.5
REMARKS: STEEP SPOIL BANKS.		15...	1339	9.00	3900	7.4	20.0
		15...	1340	10.0	3890	7.2	18.0
		15...	1341	11.0	3900	7.0	17.5
		15...	1342	12.0	3920	6.9	16.0
		15...	1343	13.0	3950	6.9	15.0
		15...	1344	14.0	3990	6.8	14.0
		15...	1345	15.0	4050	6.7	13.5
		15...	1346	16.0	4100	6.7	13.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 56 - WILLISVILLE QUADRANGLE (FIG. 19)

STATION ID: 375947089342601							
LAKE LAT-LONG: 375938 0893432		WATER-QUALITY DATA					
LAKE NAME: UNNAMED LAKE NO. 1 NEAR WILLISVILLE, IL							
LAKE SIZE (ACRES):	19.8			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	51.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.06	June					
MAXIMUM LENGTH (MILES):	0.69	24...	1217	.00	2870	7.9	8.7
TRANSPARENCY (SECCHI DISC) (FEET): 6.0		24...	1218	2.00	2890	7.9	8.4
		24...	1219	4.00	2910	7.9	8.3
COLOR: GREEN		24...	1220	6.00	2890	7.9	8.3
		24...	1221	8.00	3600	7.6	9.0
VEGETATION: GRASSES		24...	1222	10.0	3870	7.3	7.2
		24...	1223	12.0	3920	7.2	5.5
REMARKS: VERY STEEP HIGHWALLS.		24...	1224	14.0	3970	7.1	3.9
		24...	1225	16.0	4030	7.1	2.3
		24...	1226	18.0	4100	7.3	2.6
		24...	1227	20.0	4130	7.2	1.2
		24...	1228	22.0	4160	7.1	2.1
		24...	1229	24.0	4160	7.1	1.0
		24...	1230	26.0	4230	7.0	.8
		24...	1231	28.0	4270	7.0	.6
		24...	1232	30.0	4320	6.9	.5
		24...	1233	32.0	4380	6.9	.4
		24...	1234	34.0	4560	6.7	.4
		24...	1235	36.0	4600	6.7	.3
		24...	1236	38.0	4620	6.6	.3
		24...	1237	40.0	4630	6.7	.3
		24...	1238	42.0	4660	6.7	.2
		24...	1239	44.0	4690	6.7	.3
		24...	1240	46.0	4720	6.7	.3
		24...	1241	48.0	4740	6.7	.3
		24...	1242	50.0	4760	6.7	.3

STATION ID: 375958089171401

LAKE LAT-LONG: 375914 0891709

WATER-QUALITY DATA

LAKE NAME: UNNAMED LAKE NO. 33 NEAR
DU QUOIN, IL

LAKE SIZE (ACRES): 45.8

MAXIMUM DEPTH (FEET): 44.0

MAXIMUM WIDTH (MILES): 0.06

MAXIMUM LENGTH (MILES): 1.02

TRANSPARENCY (SECCHI DISC)
(FEET): 4.3

COLOR: BROWN-GREEN

VEGETATION: GRASSES, WOODS

AIR TEMPERATURE (DEG C): 35.5

REMARKS: STEEP TO GENTLY SLOPING
SPOIL BANKS.

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance ($\mu\text{S}/\text{cm}$)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
July						
18...	1400	.00	3300	7.9	32.0	9.4
18...	1401	1.60	3310	7.9	32.0	9.3
18...	1402	3.30	3310	7.9	31.5	9.3
18...	1403	4.90	3320	7.8	30.5	10.2
18...	1404	6.60	3420	7.5	29.0	13.7
18...	1405	8.20	3500	7.1	24.5	2.2
18...	1406	9.80	3560	7.0	22.0	1.0
18...	1407	11.5	3600	7.0	19.5	.8
18...	1408	13.1	3590	7.1	17.0	.9
18...	1409	14.8	3590	7.1	16.0	.9
18...	1410	16.4	3580	7.2	14.5	.9
18...	1411	18.0	3590	7.3	13.5	1.0
18...	1412	19.7	3710	7.3	13.0	.9
18...	1413	21.3	3820	7.2	12.5	1.0
18...	1414	23.0	3860	7.2	12.5	.9
18...	1415	24.6	3930	7.1	12.5	1.0
18...	1416	26.2	4010	7.1	12.5	1.0
18...	1417	27.9	4150	7.1	12.5	.9
18...	1418	29.5	4460	7.0	12.5	.9
18...	1419	31.2	5160	7.0	12.0	.9
18...	1420	32.8	5420	6.9	12.0	.9
18...	1421	34.4	5630	6.9	11.5	1.0
18...	1422	36.1	5680	6.9	11.5	1.0
18...	1423	37.7	5690	6.9	11.0	.9
18...	1424	39.4	5700	7.0	10.5	1.0
18...	1425	41.0	5720	7.0	10.0	1.0
18...	1426	42.6	5800	7.1	10.0	1.0

LAKE NO. 58 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID: 380012089250101

LAKE LAT-LONG: 380013 0892436

WATER-QUALITY DATA

LAKE NAME: UNNAMED LAKE NO. 13 NEAR
PINCKNEYVILLE, IL

LAKE SIZE (ACRES): 16.5

MAXIMUM DEPTH (FEET): 28.0

MAXIMUM WIDTH (MILES): 0.06

MAXIMUM LENGTH (MILES): 0.61

TRANSPARENCY (SECCHI DISC)
(FEET): 11.2

COLOR: DARK GREEN

VEGETATION: **WOODS**

REMARKS: OUTLET PRESENT.

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxida- tion reduc- tion poten- tial (mv)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
June							
21...	1022	.00	1220	7.8	251	27.0	7.2
21...	1023	3.30	1220	7.9	245	27.0	7.3
21...	1024	6.60	1220	7.8	243	26.5	7.1
21...	1025	9.80	1250	7.6	247	24.0	7.5
21...	1026	13.1	1290	7.5	247	19.5	8.5
21...	1027	16.4	1340	7.5	245	16.0	7.9
21...	1028	19.7	1370	7.5	244	13.5	6.9
21...	1029	23.0	1400	7.4	245	12.5	5.6
21...	1030	26.2	1510	7.4	245	12.0	4.4

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 59 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:		380017089193401		WATER-QUALITY DATA				
LAKE LAT-LONG:		380011 0891909						
LAKE NAME:		UNNAMED LAKE NO. 6 NEAR DU QUOIN, IL						
LAKE SIZE (ACRES):		13.2						
MAXIMUM DEPTH (FEET):		21.0						
MAXIMUM WIDTH (MILES):		0.05						
MAXIMUM LENGTH (MILES):		0.69						
TRANSPARENCY (SECCHI DISC) (FEET):		11.8						
COLOR:		DARK GREEN						
VEGETATION:		WOODS, BRUSH						
AIR TEMPERATURE: (DEG C):		29.5						
REMARKS:		IRREGULAR SHORELINE. MUCH ALGAE AND AQUATIC VEGETATION.						

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
July						
14...	0855	.00	2300	7.2	29.5	6.7
14...	0856	2.00	2290	7.3	29.5	6.6
14...	0857	4.00	2290	7.3	29.5	6.6
14...	0858	6.00	2300	7.2	29.5	5.5
14...	0859	8.00	3050	6.4	28.5	6.6
14...	0900	10.0	3310	6.2	24.5	7.0
14...	0901	12.0	3420	6.1	19.5	5.4
14...	0902	14.0	3540	6.2	17.0	4.7
14...	0903	16.0	3590	6.2	16.0	2.8
14...	0904	18.0	3640	6.1	15.5	.6
14...	0905	20.0	3690	6.1	15.0	.2

LAKE NO. 60 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID: 380023089241801		WATER-QUALITY DATA							
LAKE LAT-LONG: 380015 0892423									
LAKE NAME: BIG BEAVER LAKE NEAR PINCKNEYVILLE, IL									
LAKE SIZE (ACRES):	23.8			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxida- tion reduc- tion poten- tial (mv)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	30.0	Date	Time						
MAXIMUM WIDTH (MILES):	0.08	June							
MAXIMUM LENGTH (MILES):	0.62	21...	1343	.00	2950	8.1	113	28.5	7.7
TRANSPARENCY (SECCHI DISC) (FEET): 4.6		21...	1344	3.30	2960	7.7	116	26.5	7.4
		21...	1345	6.60	2950	7.2	133	17.5	7.7
REMARKS: VERY IRREGULAR SHORELINE.		21...	1346	9.80	2960	7.2	132	16.0	6.2
		21...	1347	13.1	2980	7.2	130	14.5	4.8
		21...	1348	16.4	3000	7.2	127	13.5	3.9
		21...	1349	19.7	3000	7.2	107	13.0	3.6
		21...	1350	23.0	3020	7.2	-65	11.5	3.3
		21...	1351	26.2	3120	7.2	-127	11.0	3.3
		21...	1352	29.5	3170	7.4	-155	10.5	3.2

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 61 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380029089173601	WATER-QUALITY DATA						
LAKE LAT-LONG:	380021 0891816							
LAKE NAME:	UNNAMED LAKE NO. 5 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	22.2				Spe- cific con- duct- ance	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	45.0		Time	Sam- pling depth (feet)	(μ S/cm)			
MAXIMUM WIDTH (MILES):	0.08	Date						
MAXIMUM LENGTH (MILES):	0.86	July						
TRANSPARENCY (SECCHI DISC)		12...	1400	.00	3100	7.9	32.5	8.2
(FEET):	15.7	12...	1401	2.00	3110	7.9	30.5	8.3
		12...	1402	4.00	3110	7.9	30.0	8.2
		12...	1403	6.00	3120	7.9	29.5	8.3
		12...	1404	8.00	3120	7.8	29.5	7.9
COLOR:	DARK GREEN	12...	1405	10.0	3490	7.3	27.0	13.2
		12...	1406	12.0	3620	7.0	23.5	15.9
VEGETATION:	WOODS, BRUSH	12...	1407	14.0	3700	6.7	20.5	16.6
		12...	1408	16.0	3740	6.7	18.0	15.2
AIR TEMPERATURE (DEG C):	36.5	12...	1409	18.0	3840	6.6	17.0	14.7
		12...	1410	20.0	3840	6.5	15.0	12.1
REMARKS:	IRREGULAR TO EVEN	12...	1411	22.0	3910	6.4	14.0	9.3
	SHORELINE.	12...	1412	24.0	3950	6.4	13.0	6.1
		12...	1413	26.0	3990	6.3	12.5	2.4
		12...	1414	28.0	4050	6.3	12.0	1.7
		12...	1415	30.0	4070	6.3	11.5	.5
		12...	1416	32.0	4130	6.3	11.0	.5
		12...	1417	34.0	4180	6.3	10.5	.3
		12...	1418	36.0	4220	6.3	10.5	.2
		12...	1419	38.0	4270	6.3	10.0	.1
		12...	1420	40.0	4290	6.4	10.0	.1
		12...	1421	42.0	4310	6.4	10.0	.1
		12...	1422	44.0	4390	6.5	10.0	.1

LAKE NO. 62 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID:		380031089242201		WATER-QUALITY DATA					
LAKE LAT-LONG:		380014 0892436							
LAKE NAME:		SPRING LAKE NEAR PINCKNEYVILLE, IL							
LAKE SIZE (ACRES):		13.6							
MAXIMUM DEPTH (FEET):		37.0							
MAXIMUM WIDTH (MILES):		0.55							
MAXIMUM LENGTH (MILES):		0.68							
TRANSPARENCY (SECCHI DISC)									
(FEET):		5.2							

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 63 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380041089181001	WATER-QUALITY DATA						
LAKE LAT-LONG:	380032 0891715							
LAKE NAME:	UNNAMED LAKE NO. 8 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	30.8							
MAXIMUM DEPTH (FEET):	41.0							
MAXIMUM WIDTH (MILES):	0.05							
MAXIMUM LENGTH (MILES):	1.34							
TRANSPARENCY (SECCHI DISC) (FEET):	7.2							
COLOR:	DARK GREEN							
VEGETATION:	BRUSH, WOODS							
AIR TEMPERATURE (DEG C):	35.0							
REMARKS:	IRREGULAR TO EVEN SHORELINE. STEEP SPOIL BANKS.							
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		July						
		12...	1137	.00	3070	7.4	30.0	9.6
		12...	1138	2.00	3090	7.3	29.0	9.3
		12...	1139	4.00	3120	7.3	29.0	9.5
		12...	1140	6.00	3460	6.6	26.5	10.9
		12...	1141	8.00	3510	6.5	21.0	5.6
		12...	1142	10.0	3530	6.4	16.5	.5
		12...	1143	12.0	3590	6.4	14.5	.2
		12...	1144	14.0	3650	6.4	13.5	.2
		12...	1145	16.0	3820	6.4	13.0	.2
		12...	1146	18.0	3930	6.4	12.5	.1
		12...	1147	20.0	4070	6.3	12.5	.1
		12...	1148	22.0	4080	6.3	12.0	.1
		12...	1149	24.0	4110	6.3	11.5	.0
		12...	1150	26.0	4140	6.3	11.5	.0
		12...	1151	28.0	4160	6.3	11.0	.1
		12...	1152	30.0	4240	6.3	10.5	.0
		12...	1153	32.0	4250	6.3	10.5	.0
		12...	1154	34.0	4290	6.3	10.0	.0
		12...	1155	36.0	4340	6.3	10.0	.0
		12...	1156	38.0	4340	6.3	10.0	.0
		12...	1157	40.0	4350	6.3	10.0	.0

LAKE NO. 64 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380045089153601	WATER-QUALITY DATA						
LAKE LAT-LONG:	380040 0891537							
LAKE NAME:	UNNAMED LAKE NO. 10 AT DU QUOIN, IL							
LAKE SIZE (ACRES):	19.2							
MAXIMUM DEPTH (FEET):	38.0							
MAXIMUM WIDTH (MILES):	0.04							
MAXIMUM LENGTH (MILES):	0.84							
TRANSPARENCY (SECCHI DISC) (FEET):	6.2							
COLOR:	AQUA GREEN							
VEGETATION:	GRASSES							
AIR TEMPERATURE (DEG C):	29.5							
REMARKS:	STEEP SPOIL BANKS.							
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		July						
		12...	0849	.00	646	8.2	29.0	8.5
		12...	0850	2.00	647	8.1	29.0	7.8
		12...	0851	4.00	647	8.1	29.0	7.6
		12...	0852	6.00	647	8.0	28.5	7.3
		12...	0853	8.00	652	7.8	27.0	5.4
		12...	0854	10.0	664	7.6	25.5	2.5
		12...	0855	12.0	691	7.3	22.0	.1
		12...	0856	14.0	755	7.2	17.5	.0
		12...	0857	16.0	795	7.1	16.0	.0
		12...	0858	18.0	863	7.0	15.0	.0
		12...	0859	20.0	925	6.9	14.5	.0
		12...	0900	22.0	982	6.9	14.0	.0
		12...	0901	24.0	1240	6.8	13.5	.0
		12...	0902	26.0	1840	6.5	12.5	.0
		12...	0903	28.0	2410	6.4	12.0	.0
		12...	0904	30.0	2630	6.4	11.5	.0
		12...	0905	32.0	2720	6.4	11.5	.0
		12...	0906	34.0	2780	6.4	11.5	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 65 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380046089164301	WATER-QUALITY DATA					
LAKE LAT-LONG:	380031 0891634						
LAKE NAME:	UNNAMED LAKE NO. 9 NEAR DU QUOIN, IL						
LAKE SIZE (ACRES):	17.0						
MAXIMUM DEPTH (FEET):	26.0						
MAXIMUM WIDTH (MILES):	0.04						
MAXIMUM LENGTH (MILES):	0.86						
TRANSPARENCY (SECCHI DISC) (FEET):	10.8						
COLOR:	DARK GREEN						
VEGETATION:	FERNS, BRUSH, WOODS						
AIR TEMPERATURE (DEG C):	34.5						
REMARKS:	STEEP SPOIL BANKS.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		July					
		12...	1013	.00	1880	7.5	29.5
		12...	1014	2.00	1890	7.5	29.5
		12...	1015	4.00	1890	7.6	29.0
		12...	1016	6.00	1890	7.6	29.0
		12...	1017	8.00	1910	7.4	29.0
		12...	1018	10.0	1930	7.3	28.5
		12...	1019	12.0	1950	7.2	28.0
		12...	1020	14.0	2030	6.9	25.0
		12...	1021	16.0	2180	6.7	22.0
		12...	1022	18.0	2560	6.6	18.0
		12...	1023	20.0	2650	6.5	16.5
		12...	1024	22.0	2680	6.5	15.5
		12...	1025	24.0	2770	6.5	14.5
		12...	1026	25.0	2820	6.5	14.0

LAKE NO. 66 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380104089193401	WATER-QUALITY DATA					
LAKE LAT-LONG:	380024 0891943						
LAKE NAME:	UNNAMED LAKE NO. 7 NEAR DU QUOIN, IL						
LAKE SIZE (ACRES):	23.5						
MAXIMUM DEPTH (FEET):	19.0						
MAXIMUM WIDTH (MILES):	0.07						
MAXIMUM LENGTH (MILES):	1.21						
TRANSPARENCY (SECCHI DISC) (FEET):	8.2						
COLOR:	BROWN TO DARK GREEN						
VEGETATION:	WOODS, GRASSES						
AIR TEMPERATURE (DEG C):	33.5						
REMARKS:	SOME SCUM ON POND.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		July					
		12...	1550	.00	1650	7.7	31.5
		12...	1551	2.00	1670	7.7	30.0
		12...	1552	4.00	1670	7.7	29.5
		12...	1553	6.00	1680	7.6	29.5
		12...	1554	8.00	1840	7.2	28.5
		12...	1555	10.0	2420	6.6	25.5
		12...	1556	12.0	2730	6.4	20.5
		12...	1557	14.0	2920	6.3	17.0
		12...	1558	16.0	3150	--	15.5
		12...	1559	18.0	3260	--	14.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 67 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID:	380111089255001	WATER-QUALITY DATA							
LAKE LAT-LONG:	380057 0892602								
LAKE NAME:	BOULDER LAKE NEAR PINCKNEYVILLE, IL								
LAKE SIZE (ACRES):	47.3			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxida- tion reduc- tion poten- tial (mv)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	49.0	Date	Time						
MAXIMUM WIDTH (MILES):	0.14								
MAXIMUM LENGTH (MILES):	1.07	June							
TRANSPARENCY (SECCHI DISC) (FEET):	13.4	21...	1203	.00	1010	8.1	222	27.5	8.1
		21...	1204	3.30	1010	8.0	219	27.0	8.0
		21...	1205	6.60	1020	7.8	222	26.5	7.8
		21...	1206	9.80	1110	7.8	221	23.0	10.1
COLOR:	DARK GREEN	21...	1207	13.1	1090	8.0	217	18.5	9.9
		21...	1208	16.4	1080	8.2	211	14.5	9.9
		21...	1209	19.7	1100	8.3	210	12.0	9.9
		21...	1210	23.0	1110	8.4	208	11.0	10.1
AIR TEMPERATURE (DEG C):	32.0	21...	1211	26.2	1120	7.9	214	9.5	5.6
		21...	1212	29.5	1160	7.8	-171	8.5	3.8
		21...	1213	32.8	1270	7.6	-196	8.0	3.9
		21...	1214	36.1	2410	7.2	-219	8.5	3.7
REMARKS: VERY IRREGULAR SHORELINE, SEVERAL ISLANDS AND VERY UNEVEN BOTTOM. MUCH VEGETATION IN WATER.		21...	1215	39.4	2920	7.2	-272	9.0	3.7
		21...	1216	42.6	3020	7.2	-288	9.5	3.8
		21...	1217	45.9	3060	7.2	-292	9.5	3.9

LAKE NO. 68 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID: 380112089234901		WATER-QUALITY DATA						
LAKE LAT-LONG: 380047 0892335								
LAKE NAME: UNNAMED LAKE NO. 12 NEAR PINCKNEYVILLE, IL								
LAKE SIZE (ACRES): 25.1								
MAXIMUM DEPTH (FEET): 44.0								
MAXIMUM WIDTH (MILES): 0.06								
MAXIMUM LENGTH (MILES): 1.12								
TRANSPARENCY (SECCHI DISC) (FEET): 25.9								
COLOR: DARK GREEN								
VEGETATION: WOODS								
AIR TEMPERATURE (DEG C): 30.0								
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		June						
		24...	0908	.00	1930	7.3	28.5	9.4
		24...	0909	2.00	1930	7.6	28.0	9.4
		24...	0910	4.00	1990	7.6	28.0	9.0
		24...	0911	6.00	2000	7.6	28.0	8.7
		24...	0912	8.00	2040	7.5	28.0	7.8
		24...	0913	10.0	2040	7.3	27.5	5.4
		24...	0914	12.0	2020	7.3	23.5	10.0
		24...	0915	14.0	2040	7.5	20.5	13.2
		24...	0916	16.0	2050	7.7	17.5	11.5
		24...	0917	18.0	2060	7.7	15.5	11.4
		24...	0918	20.0	2070	7.7	14.0	11.0
		24...	0919	22.0	2080	7.6	12.5	10.5
		24...	0920	24.0	2080	7.6	11.5	10.2
		24...	0921	26.0	2090	7.5	11.0	9.9
		24...	0922	28.0	2090	7.5	10.0	8.3
		24...	0923	30.0	2100	7.4	9.5	7.3
		24...	0924	32.0	2100	7.3	9.5	6.6
		24...	0925	34.0	2110	7.2	9.0	4.7
		24...	0926	36.0	2120	7.1	8.5	3.1
		24...	0927	38.0	2120	7.1	8.5	2.1
		24...	0928	40.0	2130	7.0	8.0	.8
		24...	0929	42.0	2190	7.0	8.0	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 69 - PYATTS QUADRANGLE (FIG. 16)

STATION ID: 3S01170S9162301		WATER-QUALITY DATA					
LAKE LAT-LONG: 380056 0891703							
LAKE NAME: UNNAMED LAKE NO. 11 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	27.8						
MAXIMUM DEPTH (FEET):	32.0						
MAXIMUM WIDTH (MILES):	0.05						
MAXIMUM LENGTH (MILES):	1.44						
TRANSPARENCY (SECCHI DISC) (FEET):	9.5						
COLOR:	DARK GREEN						
VEGETATION:	GRASSES, WOODS						
AIR TEMPERATURE (DEG C):	31.5						
REMARKS:	IRREGULAR SHORELINE.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		July					
		13...	0920	.00	2630	7.8	30.0
		13...	0921	2.00	2640	7.8	30.0
		13...	0922	4.00	2640	7.7	30.0
		13...	0923	6.00	2640	7.7	29.5
		13...	0924	8.00	2660	7.5	28.0
		13...	0925	10.0	2840	6.8	24.5
		13...	0926	12.0	2900	6.8	21.5
		13...	0927	14.0	2890	6.8	18.5
		13...	0928	16.0	2890	6.8	17.5
		13...	0929	18.0	2940	6.8	17.0
		13...	0930	20.0	3050	6.9	16.0
		13...	0931	22.0	3260	6.9	15.5
		13...	0932	24.0	3460	6.8	15.0
		13...	0933	26.0	3610	6.8	14.5
		13...	0934	28.0	3680	6.7	14.0
		13...	0935	30.0	3700	6.7	14.0
		13...	0936	31.0	3720	6.7	13.5

LAKE NO. 70 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID: 3S0120089232301		WATER-QUALITY DATA					
LAKE LAT-LONG: 380110 0892318							
LAKE NAME: UNNAMED LAKE NO. 11 NEAR PINCKNEYVILLE, IL							
LAKE SIZE (ACRES):	15.3						
MAXIMUM DEPTH (FEET):	35.0						
MAXIMUM WIDTH (MILES):	0.14						
MAXIMUM LENGTH (MILES):	0.31						
TRANSPARENCY (SECCHI DISC) (FEET):	16.1						
COLOR:	DARK GREEN						
VEGETATION:	BRUSH, WOODS						
AIR TEMPERATURE (DEG C):	31.0						
REMARKS:	VERY IRREGULAR SHORELINE, AND BOTTOM.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		June					
		24...	1012	.00	743	7.8	29.0
		24...	1013	2.00	750	8.3	29.0
		24...	1014	4.00	751	8.3	29.0
		24...	1015	6.00	751	8.3	28.5
		24...	1016	8.00	758	8.2	27.0
		24...	1017	10.0	779	8.3	25.0
		24...	1018	12.0	803	8.3	21.0
		24...	1019	14.0	803	8.3	18.0
		24...	1020	16.0	802	8.2	15.5
		24...	1021	18.0	810	8.0	14.0
		24...	1022	20.0	813	7.8	12.0
		24...	1023	22.0	820	7.6	11.0
		24...	1024	24.0	830	7.4	10.0
		24...	1025	26.0	840	7.2	9.5
		24...	1026	28.0	852	7.2	8.5
		24...	1027	30.0	860	7.2	8.0
		24...	1028	32.0	874	7.1	7.5
		24...	1029	34.0	899	7.0	7.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35---Continued

LAKE NO. 71 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380121089215301	WATER-QUALITY DATA						
LAKE LAT-LONG:	380126 0892127							
LAKE NAME:	UNNAMED LAKE NO. 8 NEAR PINCKNEYVILLE, IL							
LAKE SIZE (ACRES):	60.8							
MAXIMUM DEPTH (FEET):	41.0							
MAXIMUM WIDTH (MILES):	0.09							
MAXIMUM LENGTH (MILES):	0.71							
TRANSPARENCY (SECCHI DISC)								
(FEET):	6.6							
COLOR:	AQUA TO DARK GREEN							
VEGETATION:	WOODS, GRASSES							
AIR TEMPERATURE (DEG C):	36.5							
REMARKS:	VERY IRREGULAR SHORELINE, AND UNEVEN BOTTOM. OUTLET PRESENT.							

LAKE NO. 72 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID:	380125089234101	WATER-QUALITY DATA						
LAKE LAT-LONG:	380120 0892340							
LAKE NAME:	UNNAMED LAKE NO. 10 NEAR PINCKNEYVILLE, IL							
LAKE SIZE (ACRES):	42.7							
MAXIMUM DEPTH (FEET):	26.0							
MAXIMUM WIDTH (MILES):	0.12							
MAXIMUM LENGTH (MILES):	0.62							
TRANSPARENCY (SECCHI DISC)								
(FEET):	15.1							
REMARKS:	MUCH ALGAE AND AQUATIC VEGETATION. SOME AREAS BUBBLE.							

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 73 - DU QUOIN QUADRANGLE (FIG. 7)

STATION ID:	380132089131801						
LAKE LAT-LONG:	380119 0891327	WATER-QUALITY DATA					
LAKE NAME:	UNNAMED LAKE NO. 1 AT DU QUOIN, IL						
LAKE SIZE (ACRES):	28.3			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	35.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.08	Aug.					
MAXIMUM LENGTH (MILES):	0.69	01...	1527	.00	979	8.7	34.5
		01...	1528	2.00	987	8.9	32.0
TRANSPARENCY (SECCHI DISC)		01...	1529	4.00	996	8.7	31.5
(FEET):	2.3	01...	1530	6.00	1020	7.7	29.5
		01...	1531	8.00	1030	7.4	29.0
COLOR:	PEA GREEN	01...	1532	10.0	1040	7.1	27.0
		01...	1533	12.0	1080	7.1	23.5
VEGETATION:	WOODS, GRASSES	01...	1534	14.0	1160	7.4	18.5
		01...	1535	16.0	1180	7.3	14.5
AIR TEMPERATURE (DEG C):	32.5	01...	1536	18.0	1190	7.1	12.0
		01...	1537	20.0	1190	7.0	10.5
REMARKS:	VERY IRREGULAR SHORELINE, AND UNEVEN BOTTOM.	01...	1538	22.0	1220	6.9	9.5
	OUTLET PRESENT.	01...	1539	24.0	1280	6.8	9.0
		01...	1540	26.0	1410	6.7	8.5
		01...	1541	28.0	1730	6.6	8.5
		01...	1542	30.0	2120	6.5	8.5
		01...	1543	32.0	2270	6.4	8.5
		01...	1544	34.0	2330	6.5	8.5

LAKE NO. 74 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380133089162701						
LAKE LAT-LONG:	380108 0891726	WATER-QUALITY DATA					
LAKE NAME:	UNNAMED LAKE NO. 12 NEAR DU QUOIN, IL						
LAKE SIZE (ACRES):	22.8			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	37.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.03	July					
MAXIMUM LENGTH (MILES):	1.15	14...	1130	.00	3590	7.3	30.0
		14...	1131	2.00	3590	7.3	29.5
TRANSPARENCY (SECCHI DISC)		14...	1132	4.00	3610	6.8	29.0
(FEET):	8.2	14...	1133	6.00	3760	6.3	26.5
		14...	1134	8.00	3820	6.2	23.0
COLOR:	DARK GREEN	14...	1135	10.0	3890	6.1	18.0
		14...	1136	12.0	3970	6.2	15.5
VEGETATION:	GRASSES, WOODS	14...	1137	14.0	4030	6.3	14.5
		14...	1138	16.0	4090	6.4	14.0
AIR TEMPERATURE (DEG C):	34.0	14...	1139	18.0	4130	6.4	13.5
		14...	1140	20.0	4170	6.5	13.0
REMARKS:	HIGH WATER LEVELS HAVE CURRENTLY ATTACHED THIS LAKE TO LAKE NO. 75.	14...	1141	22.0	4210	6.5	13.0
		14...	1142	24.0	4230	6.5	13.0
		14...	1143	26.0	4260	6.5	12.5
		14...	1144	28.0	4290	6.5	12.5
		14...	1145	30.0	4350	6.5	12.5
		14...	1146	32.0	4440	6.5	12.5
		14...	1147	34.0	4560	6.4	12.5
		14...	1148	36.0	4630	6.5	12.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 75 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380135089172701	WATER-QUALITY DATA					
LAKE LAT-LONG:	380122 0891711						
LAKE NAME:	UNNAMED LAKE NO. 13 NEAR DU QUOIN, IL						
LAKE SIZE (ACRES):	12.1						
MAXIMUM DEPTH (FEET):	41.0						
MAXIMUM WIDTH (MILES):	0.09						
MAXIMUM LENGTH (MILES):	0.42						
TRANSPARENCY (SECCHI DISC) (FEET):	7.5						
VEGETATION:	WOODS, GRASSES						
AIR TEMPERATURE (DEG C):	34.0						
REMARKS:	IRREGULAR SHORELINE. HIGH WATER LEVELS HAVE CURRENTLY ATTACHED THIS LAKE WITH LAKE NO. 74.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		July					
		14...	1157	.00	3400	7.6	31.0
		14...	1158	2.00	3400	7.7	30.5
		14...	1159	4.00	3410	7.6	30.5
		14...	1200	6.00	3400	7.5	30.0
		14...	1201	7.00	3400	7.5	28.5
		14...	1202	8.00	3420	7.3	26.5
		14...	1203	9.00	3470	7.5	21.0
		14...	1204	10.0	3500	7.7	17.0
		14...	1205	11.0	3500	7.7	14.5
		14...	1206	12.0	3500	7.8	13.0
		14...	1207	14.0	3520	7.8	12.0
		14...	1208	16.0	3530	7.7	11.0
		14...	1209	18.0	3530	7.7	10.0
		14...	1210	20.0	3550	7.6	9.5
		14...	1211	22.0	3550	7.6	9.0
		14...	1212	24.0	3560	7.5	8.5
		14...	1213	26.0	3570	7.5	8.0
		14...	1214	28.0	3570	7.4	8.0
		14...	1215	30.0	3580	7.4	8.0
		14...	1216	32.0	3580	7.4	8.0
		14...	1217	34.0	3580	7.4	8.0

LAKE NO. 76 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380146089211601	WATER-QUALITY DATA					
LAKE LAT-LONG:	380141 0892120						
LAKE NAME:	UNNAMED LAKE NO. 7 NEAR PINCKNEYVILLE, IL						
LAKE SIZE (ACRES):	29.0						
MAXIMUM DEPTH (FEET):	58.0						
MAXIMUM WIDTH (MILES):	0.24						
MAXIMUM LENGTH (MILES):	0.42						
TRANSPARENCY (SECCHI DISC) (FEET):	15.7						
COLOR:	DARK GREEN						
VEGETATION:	GRASSES						
AIR TEMPERATURE (DEG C):	39.0						
REMARKS:	IRREGULAR SHORELINE.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		July					
		21...	1315	.00	2320	7.6	33.5
		21...	1316	3.30	2330	7.8	33.0
		21...	1317	6.60	2330	7.7	32.0
		21...	1318	9.80	2420	7.3	28.5
		21...	1319	13.1	2440	7.6	21.5
		21...	1320	16.4	2460	7.9	16.0
		21...	1321	19.7	2480	8.0	13.0
		21...	1322	23.0	2470	8.1	11.5
		21...	1323	26.2	2500	8.0	10.5
		21...	1324	29.5	2550	7.8	9.5
		21...	1325	32.8	2610	7.7	9.0
		21...	1326	36.1	2690	7.5	9.0
		21...	1327	39.4	2860	7.3	9.0
		21...	1328	42.6	2180	7.2	9.0
		21...	1329	45.9	3240	7.1	8.5
		21...	1330	49.2	3360	7.1	8.0
		21...	1331	52.5	3430	7.3	8.0
		21...	1332	55.8	3490	7.3	8.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 77 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID: 380147089252701		WATER-QUALITY DATA					
LAKE LAT-LONG: 380139 0892534							
LAKE NAME: WESSELN CUT NEAR PINCKNEYVILLE, IL							
LAKE SIZE (ACRES):	30.6			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	48.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.05	June					
MAXIMUM LENGTH (MILES):	0.14	22...	0957	.00	492	8.5	9.0
TRANSPARENCY (SECCHI DISC) (FEET): 3.9		22...	0958	3.30	506	8.2	7.5
		22...	0959	6.60	625	7.6	1.3
VEGETATION: WOODS		22...	1000	9.80	716	7.4	1.3
		22...	1001	13.1	728	7.5	1.5
		22...	1002	16.4	795	7.4	1.5
		22...	1003	19.7	1300	7.2	1.5
		22...	1004	23.0	1950	7.0	1.4
		22...	1005	26.2	2140	6.9	1.4
		22...	1006	29.5	2290	6.8	1.4
		22...	1007	32.8	2360	6.8	1.4
		22...	1008	36.1	2430	6.8	1.4
		22...	1009	39.4	2500	6.8	1.4
		22...	1010	42.6	2570	6.7	1.3
		22...	1011	45.9	2610	6.7	1.3

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 78 - DU QUOIN AND PYATTS QUADRANGLES (FIGS. 7, 16)

STATION ID: 380153089154601								
LAKE LAT-LONG: 380144 0891545		WATER-QUALITY DATA						
LAKE NAME: UNNAMED LAKE NO. 24 NEAR DU QUOIN, IL								
LAKE SIZE (ACRES):	106.			Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved	
MAXIMUM DEPTH (FEET):	72.0	Date	Time			Temper- ature (deg C)		
MAXIMUM WIDTH (MILES):	0.12							
MAXIMUM LENGTH (MILES):	2.02	July						
TRANSPARENCY (SECCHI DISC) (FEET): 11.2		05...	1515	.00	2780	7.7	27.5	7.1
		05...	1516	2.00	2770	7.7	27.5	6.8
		05...	1517	4.00	2780	7.7	27.5	6.7
		05...	1518	6.00	2780	7.7	27.5	6.7
COLOR: DARK GREEN		05...	1519	8.00	2780	7.7	27.5	6.7
		05...	1520	10.0	2800	7.6	27.0	5.6
VEGETATION: GRASSES		05...	1521	12.0	2840	7.3	25.0	5.6
		05...	1522	14.0	2830	7.4	21.5	5.6
		05...	1523	16.0	2890	7.4	20.0	6.0
		05...	1524	18.0	3020	7.5	17.0	6.4
AIR TEMPERATURE (DEG C): 29.5		05...	1525	20.0	3090	7.5	15.0	6.5
		05...	1526	22.0	3140	7.5	13.5	7.1
REMARKS: VERY GENTLY SLOPING SPOIL, WITH SOME HIGHWALL AREAS.		05...	1527	24.0	3160	7.6	12.5	7.4
		05...	1528	26.0	3170	7.6	11.5	7.4
		05...	1529	28.0	3170	7.5	11.0	6.2
		05...	1530	30.0	3180	7.4	10.0	4.3
		05...	1531	32.0	3180	7.2	10.0	3.0
		05...	1532	34.0	3190	7.2	9.5	2.4
		05...	1533	36.0	3200	7.1	9.0	1.5
		05...	1534	38.0	3210	7.1	9.0	1.1
		05...	1535	40.0	3220	7.1	8.5	.9
		05...	1536	42.0	3230	7.0	8.5	.8
		05...	1537	44.0	3230	7.0	8.5	.6
		05...	1538	46.0	3240	7.0	8.5	.3
		05...	1539	48.0	3240	7.0	8.5	.0
		05...	1540	50.0	3260	6.9	8.0	.0
		05...	1541	52.0	3280	6.9	8.0	.0
		05...	1542	54.0	3300	6.9	8.0	.0
		05...	1543	56.0	3300	6.9	8.0	.0
		05...	1544	58.0	3310	6.9	8.0	.0
		05...	1545	60.0	3310	6.9	8.0	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 79 - PYATTS QUADRANGLE (FIG. 16)

STATION ID: 380153089160401		WATER-QUALITY DATA						
LAKE LAT-LONG: 380152 0891610								
LAKE NAME: UNNAMED LAKE NO. 25 NEAR DU QUOIN, IL								
LAKE SIZE (ACRES):	13.3				Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	56.0		Time	Sam- pling depth (feet)				
MAXIMUM WIDTH (MILES):	0.05	Date						
MAXIMUM LENGTH (MILES):	0.53	July						
TRANSPARENCY (SECCHI DISC) (FEET):	11.8	05...	1338	.00	2720	7.8	29.5	6.7
		05...	1339	2.00	2730	7.9	29.5	6.6
		05...	1340	4.00	2720	7.9	29.0	6.6
		05...	1341	6.00	2730	7.9	29.0	6.6
		05...	1342	8.00	2730	7.9	29.0	6.6
COLOR:	DARK GREEN	05...	1343	10.0	2730	7.8	28.5	6.6
		05...	1344	12.0	2730	7.8	28.5	6.5
VEGETATION:	WOODS	05...	1345	14.0	2730	7.6	28.0	5.5
		05...	1346	16.0	2740	7.5	27.0	3.5
AIR TEMPERATURE (DEG C):	30.0	05...	1347	18.0	2750	7.3	25.0	2.9
		05...	1348	20.0	2770	7.2	22.5	2.1
REMARKS:	IRREGULAR SHORELINE.	05...	1349	22.0	2920	7.2	20.5	2.4
		05...	1350	24.0	3090	7.3	18.0	4.5
		05...	1351	26.0	3140	7.5	15.5	6.6
		05...	1352	28.0	3150	7.6	14.0	6.9
		05...	1353	30.0	3160	7.6	12.5	7.8
		05...	1354	32.0	3160	7.6	11.5	7.9
		05...	1355	34.0	3200	7.4	10.5	6.2
		05...	1356	36.0	3230	7.2	9.0	5.6
		05...	1357	38.0	3290	7.0	8.5	4.2
		05...	1358	40.0	3310	6.9	8.0	3.5
		05...	1359	42.0	3350	6.9	8.0	2.9
		05...	1400	44.0	3380	6.8	8.0	1.7
		05...	1401	46.0	3410	6.8	7.5	.3
		05...	1402	48.0	3470	6.8	7.5	.0
		05...	1403	50.0	3530	6.7	8.0	.0
		05...	1404	52.0	3770	6.6	8.0	.0
		05...	1405	54.0	4030	6.6	8.0	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 80 - PERCY AND PINCKNEYVILLE QUADRANGLES (FIGS. 14, 15)

STATION ID: 380153089302201		WATER-QUALITY DATA					
LAKE LAT-LONG: 380200 0892926							
LAKE NAME: UNNAMED LAKE NO. 1 NEAR JAMESTOWN, IL							
LAKE SIZE (ACRES):	108.			Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	62.0	Date	Time	Sam- pling depth (feet)			
MAXIMUM WIDTH (MILES):	0.16	June					
MAXIMUM LENGTH (MILES):	1.98	29...	1057	.00	2420	7.5	28.0
		29...	1058	2.00	2420	8.0	28.0
TRANSPARENCY (SECCHI DISC)		29...	1059	4.00	2430	8.1	28.0
(FEET):	4.9	29...	1100	6.00	2430	8.1	28.0
		29...	1101	8.00	2440	8.1	27.5
COLOR:	GREEN-BROWN	29...	1102	10.0	2580	7.6	26.0
		29...	1103	12.0	2700	7.3	22.5
VEGETATION:	GRASSES	29...	1104	14.0	2790	7.3	21.0
		29...	1105	16.0	2940	7.2	19.0
AIR TEMPERATURE (DEG C):	28.5	29...	1106	18.0	3230	7.0	16.5
		29...	1107	20.0	3330	7.1	15.5
REMARKS: VERY GENTLY SLOPING SHORE-		29...	1108	22.0	3580	7.0	14.0
LINE WITH SOME ROCK OUTCROPS		29...	1109	24.0	3790	7.0	13.0
ALONG THE HIGHWALL.		29...	1110	26.0	3960	6.9	13.0
OUTLET PRESENT.		29...	1111	28.0	4160	6.9	12.5
		29...	1112	30.0	4350	6.9	12.0
		29...	1113	32.0	4630	6.8	12.0
		29...	1114	34.0	4820	6.8	12.0
		29...	1115	36.0	5140	6.8	13.0
		29...	1116	38.0	5220	6.7	13.0
		29...	1117	40.0	5230	6.7	12.5
		29...	1118	42.0	5310	6.7	12.0
		29...	1119	44.0	5670	6.7	12.0
		29...	1120	46.0	6250	6.6	12.5
		29...	1121	48.0	6490	6.6	12.0
		29...	1122	50.0	6770	6.6	12.0
		29...	1123	52.0	6980	6.6	12.0
		29...	1124	54.0	7120	6.6	12.0
		29...	1125	56.0	7250	6.6	12.0
		29...	1126	58.0	7350	6.6	12.0
		29...	1127	60.0	7590	6.6	12.0
		29...	1128	61.0	7800	6.6	11.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 81 - PYATTS QUADRANGLE (FIG. 16)

STATION ID: 380158089194901		WATER-QUALITY DATA						
LAKE LAT-LONG: 380139 0891942								
LAKE NAME: UNNAMED LAKE NO. 15 NEAR DU QUOIN, IL								
LAKE SIZE (ACRES):	40.8	Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)	
MAXIMUM DEPTH (FEET):	37.0							
MAXIMUM WIDTH (MILES):	0.08	July						
MAXIMUM LENGTH (MILES):	1.20	13...	1325	.00	1780	7.8	30.5	7.4
TRANSPARENCY (SECCHI DISC) (FEET): 8.2		13...	1326	2.00	1780	7.8	30.0	7.0
		13...	1327	4.00	1790	7.8	29.5	7.0
		13...	1328	6.00	1820	7.7	29.0	7.4
		13...	1329	8.00	1940	7.4	28.0	8.9
COLOR: AQUA TO DARK GREEN		13...	1330	10.0	2130	7.1	27.0	8.8
		13...	1331	12.0	2710	6.8	25.0	8.7
VEGETATION: GRASSES		13...	1332	14.0	4000	6.6	20.0	6.4
		13...	1333	16.0	4170	6.6	16.5	4.9
AIR TEMPERATURE (DEG C): 38.0		13...	1334	18.0	4290	6.6	15.0	4.9
		13...	1335	20.0	4360	6.7	14.5	5.0
REMARKS: FAIRLY STEEP SPOIL BANKS, AND EXPOSED ROCK HIGHWALL.		13...	1336	22.0	4480	6.7	14.0	5.1
		13...	1337	24.0	4520	6.7	14.0	5.1
		13...	1338	26.0	4550	6.7	13.5	5.1
		13...	1339	28.0	4570	6.7	13.5	5.2
		13...	1340	30.0	4620	6.7	13.0	5.3
		13...	1341	32.0	4630	6.7	13.0	5.3
		13...	1342	34.0	4640	6.7	13.0	1.7
		13...	1343	36.0	4650	6.7	13.0	1.3

LAKE NO. 82 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID:	380205089240501	WATER-QUALITY DATA						
LAKE LAT-LONG:	380157 0892355							
LAKE NAME:	CLEAR LAKE NEAR PINCKNEYVILLE, IL							
LAKE SIZE (ACRES):	11.8			Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	44.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.05	June						
MAXIMUM LENGTH (MILES):	0.59	22...	1100	.00	758	8.1	27.5	8.6
TRANSPARENCY (SECCHI DISC) (FEET):	13.8	22...	1101	3.30	758	8.1	26.5	8.8
		22...	1102	6.60	788	7.8	25.0	10.3
		22...	1103	9.80	865	8.1	19.5	12.2
VEGETATION:	WOODS	22...	1104	13.1	876	7.9	16.5	10.6
		22...	1105	16.4	886	7.8	13.5	8.4
		22...	1106	19.7	930	7.7	11.5	6.5
AIR TEMPERATURE (DEG C):	29.0	22...	1107	23.0	1020	7.5	10.5	5.4
		22...	1108	26.2	1180	7.3	10.0	2.2
		22...	1109	29.5	1480	7.0	10.0	1.3
REMARKS:	IRREGULAR SHORELINE.	22...	1110	32.8	1920	6.9	10.5	1.1
		22...	1111	36.1	2180	6.8	11.0	1.0
		22...	1112	39.4	2410	6.8	11.5	1.0
		22...	1113	41.0	2450	6.7	11.5	1.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 83 - PYATTS QUADRANGLE (FIG. 16)

STATION ID: 380208089155801		WATER-QUALITY DATA					
LAKE LAT-LONG: 380201 0891636							
LAKE NAME: UNNAMED LAKE NO. 23 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	103.			Specific	pH		Oxygen,
MAXIMUM DEPTH (FEET):	84.0	Sam-	con-	duct-	(stand-	Temper-	dis-
MAXIMUM WIDTH (MILES):	0.30	pling	duct-	ance	ard	ature	solved
		depth			units)	(deg C)	(mg/L)
		(feet)	(μS/cm)				
		Date	Time				
MAXIMUM LENGTH (MILES):		July					
TRANSPARENCY (SECCHI DISC)	(FEET):	06...	1315	.00	2940	7.8	7.2
		06...	1316	2.00	2950	7.9	6.9
COLOR:	DARK GREEN	06...	1317	4.00	2950	7.9	6.8
		06...	1318	6.00	2950	7.9	6.8
VEGETATION:	GRASSES, WOODS	06...	1319	8.00	2950	7.9	6.8
		06...	1320	10.0	2960	7.9	6.6
AIR TEMPERATURE (DEG C):	26.0	06...	1321	12.0	2960	7.9	6.5
		06...	1322	14.0	2950	7.8	5.8
REMARKS:	VERY IRREGULAR TO UNIFORM SHORELINE. SEVERAL SHALLOW AREAS.	06...	1323	16.0	2940	7.8	7.5
		06...	1324	18.0	3070	7.8	7.7
		06...	1325	20.0	3180	7.8	8.5
		06...	1326	22.0	3190	7.8	8.7
		06...	1327	24.0	3190	7.8	8.8
		06...	1328	26.0	3190	7.8	8.6
		06...	1329	28.0	3200	7.8	8.6
		06...	1330	30.0	3200	7.7	8.1
		06...	1331	32.0	3190	7.7	7.8
		06...	1332	34.0	3200	7.6	7.3
		06...	1333	36.0	3210	7.6	7.1
		06...	1334	38.0	3210	7.5	6.8
		06...	1335	40.0	3210	7.5	6.4
		06...	1336	42.0	3230	7.4	6.1
		06...	1337	44.0	3230	7.4	5.7
		06...	1338	46.0	3240	7.3	5.1
		06...	1339	48.0	3260	7.3	4.6
		06...	1340	50.0	3290	7.2	3.7
		06...	1341	52.0	3350	7.1	2.1
		06...	1342	54.0	3520	7.0	.7
		06...	1343	56.0	4010	6.8	.0
		06...	1344	58.0	4120	6.7	.0
		06...	1345	60.0	4200	6.6	.0
		06...	1346	62.0	4240	6.6	.0
		06...	1347	64.0	4260	6.6	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 84 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380218089182201	WATER-QUALITY DATA						
LAKE LAT-LONG:	380218 0891837							
LAKE NAME:	UNNAMED LAKE NO. 14 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	79.0							
MAXIMUM DEPTH (FEET):	50.0							
MAXIMUM WIDTH (MILES):	0.09							
MAXIMUM LENGTH (MILES):	2.25							
TRANSPARENCY (SECCHI DISC) (FEET):	3.9							
COLOR:	DARK GREEN TO BROWN							
VEGETATION:	GRASSES, WOODS							
AIR TEMPERATURE (DEG C):	36.5							
REMARKS:	STEEP TO GENTLE SPOIL. TWO OUTLETS PRESENT.							
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		July						
		13...	1112	.00	1310	8.9	30.5	9.9
		13...	1113	2.00	1310	8.8	30.0	10.0
		13...	1114	4.00	1310	8.8	29.5	10.2
		13...	1115	6.00	1310	8.7	28.5	9.7
		13...	1116	8.00	1320	8.4	27.0	7.5
		13...	1117	10.0	1340	8.1	26.0	5.7
		13...	1118	12.0	1370	7.9	25.5	4.1
		13...	1119	14.0	1390	7.8	24.5	3.1
		13...	1120	16.0	1450	7.6	22.5	3.0
		13...	1121	18.0	1460	7.6	21.0	3.1
		13...	1122	20.0	1520	7.3	19.0	2.6
		13...	1123	22.0	1680	7.2	18.0	2.7
		13...	1124	24.0	2130	7.1	16.5	2.5
		13...	1125	26.0	2590	7.0	15.5	2.7
		13...	1126	28.0	3030	6.9	15.0	2.6
		13...	1127	30.0	3230	6.9	14.5	2.6
		13...	1128	32.0	3510	6.9	14.0	2.4
		13...	1129	34.0	3670	6.8	14.0	2.0
		13...	1130	36.0	3830	6.8	14.0	2.1
		13...	1131	38.0	4100	6.8	13.5	1.6
		13...	1132	40.0	5020	6.8	13.5	1.6
		13...	1133	42.0	5250	6.9	13.0	1.5
		13...	1134	44.0	5320	6.9	13.0	1.5
		13...	1135	46.0	5340	6.9	13.0	1.5
		13...	1136	48.0	5340	6.9	13.0	1.3
		13...	1137	49.0	5340	7.0	12.5	1.6

LAKE NO. 85 - PINCKNEYVILLE QUADRANGLE (FIG. 15)

STATION ID:	380218089225001	WATER-QUALITY DATA						
LAKE LAT-LONG:	380214 0892248							
LAKE NAME:	UNNAMED LAKE NO. 9 NEAR PINCKNEYVILLE, IL							
LAKE SIZE (ACRES):	17.1							
MAXIMUM DEPTH (FEET):	11.0							
MAXIMUM WIDTH (MILES):	0.15							
MAXIMUM LENGTH (MILES):	0.43							
TRANSPARENCY (SECCHI DISC) (FEET):	4.6							
COLOR:	RED							
VEGETATION:	NONE TO WOODS							
AIR TEMPERATURE (DEG C):	30.0							
REMARKS:	MANY EXPOSED GOB PILES.							
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		July						
		08...	1220	.00	4100	1.8	29.0	6.8
		08...	1221	1.00	4130	1.8	27.5	7.0
		08...	1222	2.00	4160	1.8	26.0	7.5
		08...	1223	3.00	4170	1.8	25.5	7.3
		08...	1224	4.00	4170	1.8	25.5	7.2
		08...	1225	5.00	4370	1.8	25.0	.5
		08...	1226	6.00	5060	1.8	23.5	.2
		08...	1227	7.00	5310	1.8	20.0	.2
		08...	1228	8.00	5570	1.8	18.5	.2
		08...	1229	9.00	6010	1.9	17.0	.1
		08...	1230	10.0	6710	2.0	16.0	.1

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 86 - PYATTS QUADRANGLE (FIG. 16)

STATION ID: 380220089155301		WATER-QUALITY DATA					
LAKE LAT-LONG: 380216 0891553							
LAKE NAME: UNNAMED LAKE NO. 26 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	17.3			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	76.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.07	July					
MAXIMUM LENGTH (MILES):	0.38	06...	1457	.00	3900	7.6	7.5
		06...	1458	2.00	3890	7.6	7.1
TRANSPARENCY (SECCHI DISC)		06...	1459	4.00	3900	7.6	6.9
(FEET):	8.8	06...	1500	6.00	3900	7.6	6.8
		06...	1501	8.00	3910	7.6	6.6
AIR TEMPERATURE (DEG C):	25.5	06...	1502	10.0	4060	7.2	3.8
		06...	1503	12.0	4090	6.8	1.2
		06...	1504	14.0	4060	6.8	.5
		06...	1505	16.0	4060	6.8	1.7
		06...	1506	18.0	4040	6.9	3.7
		06...	1507	20.0	4020	6.9	5.0
		06...	1508	22.0	4020	6.9	6.1
		06...	1509	24.0	4000	7.1	6.9
		06...	1510	26.0	4000	7.1	7.2
		06...	1511	28.0	3990	7.1	7.3
		06...	1512	30.0	4020	7.1	7.2
		06...	1513	32.0	4030	7.1	6.9
		06...	1514	34.0	4050	7.0	6.7
		06...	1515	36.0	4040	7.0	6.4
		06...	1516	38.0	4050	7.0	6.1
		06...	1517	40.0	4050	7.0	5.9
		06...	1518	42.0	4050	7.0	5.8
		06...	1519	44.0	4040	7.0	5.5
		06...	1520	46.0	4030	7.0	5.2
		06...	1521	48.0	4050	7.0	4.8
		06...	1522	50.0	4040	6.9	4.2
		06...	1523	52.0	4050	6.9	3.8
		06...	1524	54.0	4050	6.9	3.2
		06...	1525	56.0	4060	6.9	2.7
		06...	1526	58.0	4070	6.9	2.4
		06...	1527	60.0	4070	6.9	2.1
		06...	1528	62.0	4070	6.9	2.0
		06...	1529	64.0	4080	6.9	1.7

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 87 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380226089220301						
LAKE LAT-LONG:	380212 0892203	WATER-QUALITY DATA					
LAKE NAME:	UNNAMED LAKE NO. 6 NEAR PINCKNEYVILLE, IL						
LAKE SIZE (ACRES):	11.9			Spe- cific			
MAXIMUM DEPTH (FEET):	25.0		Sam- pling depth (feet)	con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM WIDTH (MILES):	0.05	Date	Time				
MAXIMUM LENGTH (MILES):	0.34	Aug.					
TRANSPARENCY (SECCHI DISC)		02...	1205	.00	1540	7.7	31.5
(FEET):	7.2	02...	1206	2.00	1540	7.8	31.5
COLOR:	DARK GREEN	02...	1207	4.00	1550	7.8	31.5
VEGETATION:	GRASSES, WOODS	02...	1208	6.00	1550	7.8	31.0
AIR TEMPERATURE (DEG C):	30.0	02...	1209	8.00	1560	7.7	31.0
REMARKS:	SOME EXPOSED SPOIL.	02...	1210	10.0	1580	7.2	29.0
		02...	1211	12.0	1610	6.9	26.0
		02...	1212	14.0	1670	6.7	22.0
		02...	1213	16.0	1720	6.7	17.5
		02...	1214	18.0	1750	6.7	15.0
		02...	1215	20.0	1840	6.7	13.0
		02...	1216	22.0	1930	6.7	12.5
		02...	1217	24.0	2010	6.7	11.5

LAKE NO. 88 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380228089174501						
LAKE LAT-LONG:	380221 0891704	WATER-QUALITY DATA					
LAKE NAME:	UNNAMED LAKE NO. 22 NEAR DU QUOIN, IL						
LAKE SIZE (ACRES):	72.5			Spe- cific			
MAXIMUM DEPTH (FEET):	63.0		Sam- pling depth (feet)	con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM WIDTH (MILES):	0.14	Date	Time				
MAXIMUM LENGTH (MILES):	1.46	July					
TRANSPARENCY (SECCHI DISC)		06...	1143	.00	2560	7.6	27.5
(FEET):	10.8	06...	1144	2.00	2570	7.6	27.5
COLOR:	DARK GREEN	06...	1145	4.00	2570	7.6	27.5
AIR TEMPERATURE (DEG C):	23.0	06...	1146	6.00	2570	7.7	27.5
REMARKS:	TWO OUTLETS PRESENT.	06...	1147	8.00	2570	7.6	27.5
		06...	1148	10.0	2570	7.7	27.5
		06...	1149	12.0	2570	7.7	27.5
		06...	1150	14.0	2780	7.3	23.0
		06...	1151	16.0	2950	7.2	19.0
		06...	1152	18.0	3010	7.2	16.0
		06...	1153	20.0	3020	7.2	13.5
		06...	1154	22.0	3050	7.1	13.0
		06...	1155	24.0	3050	7.1	11.5
		06...	1156	26.0	3040	7.0	11.0
		06...	1157	28.0	3050	7.0	10.5
		06...	1158	30.0	3050	7.0	10.5
		06...	1159	32.0	3060	6.9	10.5
		06...	1200	34.0	3080	6.9	10.0
		06...	1201	36.0	3100	6.8	10.0
		06...	1202	38.0	3100	6.8	10.0
		06...	1203	40.0	3120	6.8	10.0
		06...	1204	42.0	3130	6.7	10.0
		06...	1205	44.0	3140	6.7	10.0
		06...	1206	46.0	3140	6.7	10.0
		06...	1207	48.0	3150	6.7	10.0
		06...	1208	50.0	3160	6.7	10.0
		06...	1209	52.0	3170	6.7	10.0
		06...	1210	54.0	3170	6.7	10.0
		06...	1211	56.0	3180	6.7	10.0
		06...	1212	58.0	4120	6.5	10.0
		06...	1213	60.0	4780	6.4	10.5
		06...	1214	62.0	4800	6.4	10.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 89 - PYATTS QUADRANGLE (FIG. 16)

STATION ID: 380230089160601								
LAKE LAT-LONG: 380227 0891603		WATER-QUALITY DATA						
LAKE NAME: UNNAMED LAKE NO. 27 NEAR DU QUOIN, IL								
LAKE SIZE (ACRES):	15.4							
MAXIMUM DEPTH (FEET):	51.0							
MAXIMUM WIDTH (MILES):	0.05							
MAXIMUM LENGTH (MILES):	0.60							
TRANSPARENCY (SECCHI DISC) (FEET):	12.1							
COLOR:	DARK GREEN							
VEGETATION:	GRASSES							
AIR TEMPERATURE (DEG C):	26.0							
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
		July						
		06...	1418	.00	3660	7.7	28.0	7.6
		06...	1419	2.00	3680	7.7	28.0	7.3
		06...	1420	4.00	3680	7.7	28.0	7.3
		06...	1421	6.00	3670	7.7	28.0	7.3
		06...	1422	8.00	3680	7.7	28.0	7.3
		06...	1423	10.0	3840	7.2	26.5	9.8
		06...	1424	12.0	4060	7.4	19.5	11.7
		06...	1425	14.0	4060	7.4	17.0	11.2
		06...	1426	16.0	4070	7.3	15.5	10.6
		06...	1427	18.0	4090	7.2	14.5	10.5
		06...	1428	20.0	4110	7.0	14.0	10.1
		06...	1429	22.0	4190	6.8	13.5	8.7
		06...	1430	24.0	4260	6.7	13.0	8.3
		06...	1431	26.0	4300	6.6	13.0	7.7
		06...	1432	28.0	4330	6.5	13.0	6.2
		06...	1433	20.0	4400	6.5	13.0	4.0
		06...	1434	32.0	4430	6.4	13.0	2.6
		06...	1435	34.0	4430	6.4	13.0	2.0
		06...	1436	36.0	4430	6.4	12.5	1.8
		06...	1437	38.0	4420	6.4	12.0	1.6
		06...	1438	40.0	4420	6.4	12.0	.6
		06...	1439	42.0	4420	6.4	11.5	.2
		06...	1440	44.0	4420	6.4	11.0	.0
		06...	1441	46.0	4430	6.4	10.5	.0
		06...	1442	48.0	4460	6.4	10.5	.0
		06...	1443	50.0	4480	6.4	10.5	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 90 - PYATTS QUADRANGLE (FIG. 16)

STATION ID: 380231089182001		WATER-QUALITY DATA					
LAKE LAT-LONG: 380227 0891823							
LAKE NAME: UNNAMED LAKE NO. 19 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	24.0			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	79.0	Date	Time			Temper- ature (deg C)	
MAXIMUM WIDTH (MILES):	0.11	July					
MAXIMUM LENGTH (MILES):	0.53	07...	1414	.00	2770	7.7	28.0
		07...	1415	2.00	2770	7.7	27.5
TRANSPARENCY (SECCHI DISC)		07...	1416	4.00	2770	7.7	27.5
(FEET):	8.2	07...	1417	6.00	2770	7.7	27.5
		07...	1418	8.00	3160	7.6	27.0
COLOR:	DARK GREEN	07...	1419	10.0	3870	7.1	21.5
		07...	1420	12.0	3880	7.0	17.0
VEGETATION: GRASSES, WOODS, MARSHES		07...	1421	14.0	3920	6.7	12.5
		07...	1422	16.0	3920	6.7	11.5
AIR TEMPERATURE (DEG C):	28.0	07...	1423	18.0	3910	6.6	11.0
		07...	1424	20.0	3910	6.6	11.0
		07...	1425	22.0	3900	6.6	11.0
		07...	1426	24.0	3910	6.6	11.0
		07...	1427	26.0	3920	6.6	11.0
		07...	1428	28.0	3910	6.6	11.0
		07...	1429	30.0	3910	6.6	11.0
		07...	1430	32.0	3910	6.6	11.0
		07...	1431	34.0	3920	6.6	11.0
		07...	1432	36.0	3920	6.6	11.0
		07...	1433	38.0	3920	6.6	10.5
		07...	1434	40.0	3920	6.6	10.5
		07...	1435	42.0	3920	6.6	10.5
		07...	1436	44.0	3920	6.6	10.5
		07...	1437	46.0	3970	6.6	10.5
		07...	1438	48.0	4020	6.6	10.0
		07...	1439	50.0	4060	6.6	10.0
		07...	1440	52.0	4080	6.5	10.0
		07...	1441	54.0	4110	6.6	10.0
		07...	1442	56.0	4120	6.6	10.0
		07...	1443	58.0	4130	6.6	9.5
		07...	1444	60.0	4140	6.6	9.5
		07...	1445	62.0	4150	6.6	9.5
		07...	1446	64.0	4150	6.6	9.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 91 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380240089183701	WATER-QUALITY DATA						
LAKE LAT-LONG:	380231 0891826							
LAKE NAME:	UNNAMED LAKE NO. 18 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	40.8				Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	18.0	Date	Time	Sam- pling depth (feet)				
MAXIMUM WIDTH (MILES):	0.08	July						
MAXIMUM LENGTH (MILES):	1.81	07...	1127	.00	1300	8.4	27.5	13.2
		07...	1128	2.00	1310	8.5	27.5	11.6
TRANSPARENCY (SECCHI DISC)		07...	1129	4.00	1340	8.0	26.5	9.1
(FEET):	2.0	07...	1130	6.00	2080	7.4	26.5	.8
		07...	1131	8.00	2720	7.1	25.0	.0
COLOR:	MUDDY BROWN	07...	1132	10.0	2860	7.0	22.5	.1
		07...	1133	12.0	2800	7.0	19.5	.1
VEGETATION:	WOODS	07...	1134	14.0	2780	6.9	17.0	.0
		07...	1135	16.0	2850	6.9	15.0	.0
AIR TEMPERATURE (DEG C):	26.0	07...	1136	17.0	2920	6.9	14.0	.0
REMARKS:	OUTLET PRESENT.							

LAKE NO. 92 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380243089191001	WATER-QUALITY DATA						
LAKE LAT-LONG:	380241 0891906							
LAKE NAME:	UNNAMED LAKE NO. 16 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	30.7				Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	41.0	Date	Time	Sam- pling depth (feet)				
MAXIMUM WIDTH (MILES):	0.08	July						
MAXIMUM LENGTH (MILES):	0.96	11...	1425	.00	2220	7.6	31.0	8.1
TRANSPARENCY (SECCHI DISC)		11...	1426	2.00	2210	7.6	30.0	7.9
(FEET):	6.9	11...	1427	4.00	2210	7.6	29.5	7.8
COLOR:	DARK GREEN	11...	1428	6.00	2220	7.5	29.5	7.6
AIR TEMPERATURE (DEG C):	33.0	11...	1429	8.00	2310	7.3	28.5	7.5
REMARKS: THIN LAYER OF SCUM ON LAKE.		11...	1430	10.0	2530	6.8	25.5	7.1
OUTLET PRESENT.		11...	1431	12.0	2650	6.7	21.5	6.1
		11...	1432	14.0	2740	6.6	18.0	4.5
		11...	1433	16.0	2800	6.5	15.0	2.8
		11...	1434	18.0	2870	6.5	13.0	.8
		11...	1435	20.0	2890	6.4	12.5	.4
		11...	1436	22.0	2910	6.4	11.5	.1
		11...	1437	24.0	2920	6.4	11.0	.1
		11...	1438	26.0	2960	6.4	11.0	.1
		11...	1439	28.0	2970	6.4	10.0	.1
		11...	1440	30.0	2990	6.4	10.0	.0
		11...	1441	32.0	3010	6.4	9.5	.0
		11...	1442	34.0	3050	6.5	9.5	.0
		11...	1443	36.0	3080	6.4	9.0	.0
		11...	1444	38.0	3130	6.5	9.0	.0
		11...	1445	40.0	3210	6.5	9.0	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 93 - PERCY QUADRANGLE (FIG. 14)

STATION ID:	380248089311101							
LAKE LAT-LONG:	380244 0893109	WATER-QUALITY DATA						
LAKE NAME:	UNNAMED LAKE NO. 2 NEAR JAMESTOWN, IL							
LAKE SIZE (ACRES):	16.9				Spe- cific			
MAXIMUM DEPTH (FEET):	17.0			Sam- pling	con- duct- ance	pH	Temper- ature	Oxygen, dis- solved
MAXIMUM WIDTH (MILES):	0.15	Date	Time	depth (feet)	(µS/cm)	(stand- ard units)	(deg C)	(mg/L)
MAXIMUM LENGTH (MILES):	0.22	June						
TRANSPARENCY (SECCHI DISC) (FEET):	3.6	29...	1217	.00	2750	8.0	28.0	8.4
		29...	1218	2.00	2770	8.2	28.0	8.0
		29...	1219	4.00	2770	8.2	28.0	7.9
		29...	1220	6.00	2770	8.2	28.0	7.9
		29...	1221	8.00	2770	8.2	28.0	7.8
		29...	1222	10.0	2830	7.9	27.0	4.6
		29...	1223	12.0	2960	7.6	25.0	.4
		29...	1224	14.0	3040	7.5	23.0	.1
		29...	1225	16.0	3110	7.4	21.0	.1

LAKE NO. 94 - DU QUOIN AND PYATTS QUADRANGLES (FIGS. 7, 16)

STATION ID:	380256089145301	WATER-QUALITY DATA						
LAKE LAT-LONG:	380233 0891504							
LAKE NAME:	UNNAMED LAKE NO. 4 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES)	44.2				Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	53.0	Date	Time	Sam- pling depth (feet)				
MAXIMUM WIDTH (MILES):	0.93	June						
MAXIMUM LENGTH (MILES):	1.33	30...	1320	.00	3430	7.9	29.0	8.3
		30...	1321	2.00	3430	7.9	29.0	8.3
TRANSPARENCY (SECCHI DISC)		30...	1322	4.00	3430	7.9	29.0	8.2
(FEET):	6.6	30...	1323	6.00	3430	7.9	29.0	8.3
		30...	1324	8.00	3430	7.9	27.5	8.3
COLOR:	DARK GREEN	30...	1325	10.0	3440	7.9	27.5	8.3
		30...	1326	12.0	3480	7.7	25.0	9.6
VEGETATION:	GRASSES	30...	1327	14.0	3530	7.6	22.0	8.7
		30...	1328	16.0	3620	7.4	18.5	7.1
AIR TEMPERATURE (DEG C):	33.0	30...	1329	18.0	3660	7.3	16.5	5.7
		30...	1330	20.0	3690	7.3	15.5	4.6
REMARKS:	SHORT HIGHWALL AND GENTLY SLOPING SPOIL.	30...	1331	22.0	3730	7.1	14.0	3.0
		30...	1332	24.0	3760	7.1	13.0	2.4
		30...	1333	26.0	3800	6.9	12.5	1.6
		30...	1334	28.0	3810	6.9	12.0	1.2
		30...	1335	30.0	3820	6.8	11.5	.8
		30...	1336	32.0	3830	6.8	11.5	.5
		30...	1337	34.0	3830	6.8	11.5	.2
		30...	1338	36.0	3830	6.8	11.0	.1
		30...	1339	38.0	3820	6.8	11.0	.0
		30...	1340	40.0	3820	6.8	11.0	.0
		30...	1341	42.0	3810	6.8	10.5	.0
		30...	1342	44.0	3820	6.8	10.5	.0
		30...	1343	46.0	3820	6.8	10.5	.0
		30...	1344	48.0	3820	6.8	10.5	.0
		30...	1345	49.0	3820	6.9	10.0	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 95 - FYATTS QUADRANGLE (FIG. 16)

STATION ID:	380301089180701	WATER-QUALITY DATA						
LAKE LAT-LONG:	380253 0891805							
LAKE NAME:	UNNAMED LAKE NO. 20 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	11.2			Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	29.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.11	July						
MAXIMUM LENGTH (MILES):	0.31	07...	1035	.00	2900	6.7	27.0	6.8
		07...	1036	2.00	2950	7.0	27.0	6.5
TRANSPARENCY (SECCHI DISC)		07...	1037	4.00	2930	7.0	27.0	5.8
(FEET):	12.8	07...	1038	6.00	3160	6.8	27.0	7.6
		07...	1039	8.00	3560	6.5	26.0	17.0
COLOR:	DARK TO LIGHT GREEN	07...	1040	10.0	3590	6.4	22.5	17.9
		07...	1041	12.0	3670	6.4	19.5	--
VEGETATION:	BRUSH, WOODS	07...	1042	14.0	3770	6.4	18.0	--
		07...	1043	16.0	3830	6.3	16.5	18.4
AIR TEMPERATURE (DEG C):	26.0	07...	1044	18.0	3900	6.3	15.5	2.4
		07...	1045	20.0	3980	6.3	15.0	.5
REMARKS:	IRREGULAR SHORELINE.	07...	1046	22.0	4020	6.3	14.0	.1
	SEVERAL DEAD TREES IN WATER.	07...	1047	24.0	4040	6.3	13.5	.1
		07...	1048	26.0	4050	6.3	13.0	.0
		07...	1049	28.0	4050	6.4	12.5	.0

LAKE NO. 96 - FYATTS QUADRANGLE (FIG. 16)

STATION ID:	380310089180601							
LAKE LAT-LONG:	380308 0891805	WATER-QUALITY DATA						
LAKE NAME:	UNNAMED LAKE NO. 21 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	17.6				Spe- cific con- duct- ance	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	30.0	Date	Time	Sam- pling depth (feet)	(µS/cm)			
MAXIMUM WIDTH (MILES):	0.14	July						
MAXIMUM LENGTH (MILES):	0.66	07...	1240	.00	1890	7.3	28.0	7.1
		07...	1241	2.00	1890	7.4	28.0	6.6
TRANSPARENCY (SECCHI DISC)		07...	1242	4.00	1900	7.4	27.5	6.2
(FEET):	10.8	07...	1243	6.00	1900	7.4	27.5	6.0
		07...	1244	8.00	1900	7.3	27.5	5.6
COLOR:	BLUE-GREEN TO DARK GREEN	07...	1245	10.0	2250	6.9	26.5	.4
		07...	1246	12.0	2300	6.8	23.0	.3
VEGETATION:	GRASSES, WOODS	07...	1247	14.0	2300	6.8	19.5	.3
		07...	1248	16.0	2310	6.8	17.0	.2
AIR TEMPERATURE (DEG C):	26.0	07...	1249	18.0	2300	6.8	14.5	.1
		07...	1250	20.0	2310	6.9	13.0	.1
REMARKS:	EVEN TO VERY IRREGULAR	07...	1251	22.0	2310	6.9	12.0	.0
	SHORELINE.	07...	1252	24.0	2340	6.9	11.0	.0
	SOME ISLANDS PRESENT.	07...	1253	26.0	2400	7.0	11.0	.0
		07...	1254	28.0	2490	7.0	10.5	.0
		07...	1255	29.0	2530	7.0	10.5	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 97 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380310089184601	WATER-QUALITY DATA					
LAKE LAT-LONG:	380305 0891843						
LAKE NAME:	UNNAMED LAKE NO. 17 NEAR DU QUOIN, IL						
LAKE SIZE (ACRES):	13.8						
MAXIMUM DEPTH (FEET):	39.0						
MAXIMUM WIDTH (MILES):	0.11						
MAXIMUM LENGTH (MILES):	0.30						
TRANSPARENCY (SECCHI DISC) (FEET):	14.8						
COLOR:	DARK GREEN						
VEGETATION:	GRASSES						
AIR TEMPERATURE (DEG C):	32.5						
REMARKS:	IRREGULAR SHORELINE.						

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
July						
	11...	1255	.00	834	8.2	30.5
	11...	1256	2.00	838	8.2	29.5
	11...	1257	4.00	839	8.2	29.5
	11...	1258	6.00	839	8.2	29.0
	11...	1259	8.00	841	8.1	28.5
	11...	1300	10.0	842	8.0	28.5
	11...	1301	12.0	880	7.9	26.5
	11...	1302	14.0	922	7.9	25.0
	11...	1303	16.0	941	7.8	21.0
	11...	1304	18.0	943	7.9	18.5
	11...	1305	20.0	949	7.7	16.5
	11...	1306	22.0	950	7.5	14.5
	11...	1307	24.0	946	7.4	13.0
	11...	1308	26.0	944	7.3	11.5
	11...	1309	28.0	943	7.2	10.5
	11...	1310	30.0	941	7.1	10.0
	11...	1311	32.0	948	7.1	9.5
	11...	1312	34.0	953	7.1	8.5
	11...	1313	36.0	961	7.0	8.0
	11...	1314	38.0	979	6.9	8.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 98 - DU QUOIN AND PYATTS QUADRANGLES (FIGS. 7, 16)

STATION ID: 380314089145601		WATER-QUALITY DATA					
LAKE LAT-LONG: 380301 0891458							
LAKE NAME: UNNAMED LAKE NO. 3 NEAR DU QUOIN, IL							
LAKE SIZE (ACRES):	61.3			Spe- cific con- duct- ance	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved
MAXIMUM DEPTH (FEET):	56.0	Date	Time	Sam- pling depth (feet)	(μ S/cm)		(mg/L)
MAXIMUM WIDTH (MILES):	0.08	June					
MAXIMUM LENGTH (MILES):	1.44	30...	1147	.00	3210	7.4	8.2
TRANSPARENCY (SECCHI DISC) (FEET): 6.6		30...	1148	2.00	3230	7.6	7.7
		30...	1149	4.00	3220	7.6	8.0
		30...	1150	6.00	3240	7.6	7.7
COLOR: DARK GREEN		30...	1151	8.00	3300	7.3	8.4
		30...	1152	10.0	3340	7.2	9.3
		30...	1153	12.0	3380	7.0	8.6
VEGETATION: GRASSES		30...	1154	14.0	3400	6.9	7.6
		30...	1155	16.0	3420	6.8	6.2
		30...	1156	18.0	3430	6.7	4.8
AIR TEMPERATURE (DEG C): 30.0		30...	1157	20.0	3430	6.7	4.5
		30...	1158	22.0	3430	6.7	4.1
		30...	1159	24.0	3420	6.6	4.4
REMARKS: STEEP TO LEVEL SPOIL BANKS, WITH SOME ROCK HIGHWALLS.		30...	1200	26.0	3410	6.7	4.9
		30...	1201	28.0	3390	6.8	5.4
		30...	1202	30.0	3390	6.8	5.6
		30...	1203	32.0	3380	6.9	5.6
		30...	1204	34.0	3380	6.9	5.4
		30...	1205	36.0	3390	6.9	4.8
		30...	1206	38.0	3400	6.9	4.2
		30...	1207	40.0	3410	6.9	3.5
		30...	1208	42.0	3410	6.8	3.2
		30...	1209	44.0	3420	6.8	2.7
		30...	1210	46.0	3430	6.8	2.3
		30...	1211	48.0	3440	6.8	2.1
		30...	1212	50.0	3450	6.8	1.6
		30...	1213	52.0	3460	6.8	1.3
		30...	1214	54.0	3470	6.7	.9
		30...	1215	55.0	3470	6.7	.5

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 99 - PINCKNEYVILLE AND PYATTS QUADRANGLES (FIGS. 15, 16)

STATION ID:	380337089222001	WATER-QUALITY DATA					
LAKE LAT-LONG:	380314 0892220						
LAKE NAME:	UNNAMED LAKE NO. 5 AT PINCKNEYVILLE, IL						
LAKE SIZE (ACRES):	45.4						
MAXIMUM DEPTH (FEET):	37.0						
MAXIMUM WIDTH (MILES):	0.07						
MAXIMUM LENGTH (MILES):	1.02						
TRANSPARENCY (SECCHI DISC (FEET)):	6.2						
COLOR:	DARK GREEN						
VEGETATION:	WOODS						
AIR TEMPERATURE (DEG C):	29.0						
REMARKS:	IRREGULAR SHORELINE.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		Aug.					
		02...	1033	.00	979	8.8	7.3
		02...	1034	2.00	980	8.9	7.0
		02...	1035	4.00	980	8.9	6.9
		02...	1036	6.00	984	8.8	6.5
		02...	1037	8.00	1100	8.1	5.7
		02...	1038	10.0	1180	6.9	4.6
		02...	1039	12.0	1270	8.0	3.1
		02...	1040	14.0	1490	8.1	1.7
		02...	1041	16.0	1680	8.0	2.8
		02...	1042	18.0	1920	7.9	.0
		02...	1043	20.0	2120	7.8	.0
		02...	1044	22.0	2280	7.9	.0
		02...	1045	24.0	2400	7.8	.0
		02...	1046	26.0	2510	7.8	.0
		02...	1047	28.0	2600	7.8	.0
		02...	1048	30.0	2700	7.8	.0
		02...	1049	32.0	2790	7.8	.0
		02...	1050	34.0	2840	7.8	.0
		02...	1051	36.0	3050	7.8	.0

LAKE NO. 100 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:	380338089160201	WATER-QUALITY DATA					
LAKE LAT-LONG:	380336 0891600						
LAKE NAME:	UNNAMED LAKE NO. 28 NEAR DU QUOIN, IL						
LAKE SIZE (ACRES):	27.7						
MAXIMUM DEPTH (FEET):	30.0						
MAXIMUM WIDTH (MILES):	0.10						
MAXIMUM LENGTH (MILES):	0.73						
TRANSPARENCY (SECCHI DISC (FEET)):	7.2						
VEGETATION:	WOODS, BRUSH						
AIR TEMPERATURE (DEG C):	26.0						
REMARKS:	VERY IRREGULAR SHORELINE, SEVERAL ISLANDS. WATER PUMPED OUT FOR MINE OPERATIONS.						
		Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (µS/cm)	pH (stand- ard units)	Oxygen, dis- solved (mg/L)
		July					
		08...	0922	.00	3050	7.4	8.2
		08...	0923	2.00	3050	7.2	7.7
		08...	0924	4.00	3050	7.0	7.5
		08...	0925	6.00	3090	6.9	7.0
		08...	0926	8.00	3130	6.6	6.9
		08...	0927	10.0	3130	6.7	7.7
		08...	0928	12.0	3170	6.8	8.0
		08...	0929	14.0	3190	6.8	7.5
		08...	0930	16.0	3230	6.7	6.9
		08...	0931	18.0	3260	6.6	6.2
		08...	0932	20.0	3280	6.6	5.4
		08...	0933	22.0	3320	6.5	4.5
		08...	0934	24.0	3360	6.4	2.9
		08...	0935	26.0	3410	6.4	1.8
		08...	0936	28.0	3530	6.4	.0
		08...	0937	29.0	3650	6.4	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 101 - PERCY QUADRANGLE (FIG. 14)

STATION ID: 380342089334401		WATER-QUALITY DATA						
LAKE LAT-LONG: 380327 0893352								
LAKE NAME: UNNAMED LAKE NO. 1 NEAR CUTLER, IL								
LAKE SIZE (ACRES):	24.0			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	Oxida- tion reduc- tion poten- tial (mv)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	17.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.06	June						
MAXIMUM LENGTH (MILES):	0.72	23...	1237	.00	140	139	30.5	8.8
		23...	1238	3.30	140	146	29.0	6.8
TRANSPARENCY (SECCHI DISC)		23...	1239	4.90	140	-115	25.5	2.1
(FEET):	2.3	23...	1240	6.60	140	-119	25.5	1.9
		23...	1241	9.80	130	-137	21.5	1.7
AIR TEMPERATURE (DEG C):	34.0	23...	1242	13.1	140	-162	19.0	1.8
		23...	1243	16.4	160	-167	17.0	1.8
REMARKS:	LAKE FORMED IN SPOIL DEPRESSION.							

LAKE NO. 102 - PERCY QUADRANGLE (FIG. 14)

STATION ID:		380348089332901		WATER-QUALITY DATA															
LAKE LAT-LONG:		380252 0893328																	
LAKE NAME:		EAST C STREAMLINE LAKE NEAR CUTLER, IL																	
LAKE SIZE (ACRES):		124.		Sam- pling depth (feet)		Spe- cific con- duct- ance (µ8/cm)		pH (stand- ard units)		Oxida- tion reduc- tion poten- tial (mv)		Temper- ature (deg C)		Oxygen, dis- solved (mg/L)					
MAXIMUM DEPTH (FEET):		92.0		Date		Time													
MAXIMUM WIDTH (MILES):		0.08		June															
MAXIMUM LENGTH (MILES):		3.08		23...		1035		.00		3100		8.1		178		27.5		7.7	
				23...		1036		3.30		3090		8.1		173		27.0		7.3	
TRANSPARENCY (SECCHI DISC)				23...		1037		6.60		3100		8.1		173		27.0		7.2	
(FEET):		4.3		23...		1038		9.80		3150		7.6		184		23.5		4.0	
				23...		1039		13.0		3190		7.5		186		21.5		3.3	
VEGETATION:		GRASSES		23...		1040		16.4		3380		7.4		186		18.5		3.4	
				23...		1041		19.7		3600		7.5		183		15.5		3.5	
REMARKS:		STEEP TO GENTLE SPOIL.		23...		1042		23.0		3780		7.4		182		14.0		3.8	
		TWO OUTLETS PRESENT.		23...		1043		26.2		3900		7.4		181		13.5		3.8	
				23...		1044		29.5		4070		7.4		179		13.0		3.7	
				23...		1045		32.8		4250		7.3		176		12.5		3.7	
				23...		1046		36.1		4560		7.2		177		12.5		3.5	
				23...		1047		39.4		4770		7.2		178		12.5		3.5	
				23...		1048		42.6		5080		7.1		103		12.5		3.4	
				23...		1049		45.9		5240		7.1		-31		12.5		2.8	
				23...		1050		49.2		5440		7.0		-73		12.0		2.6	
				23...		1051		52.5		5490		7.0		-96		12.0		2.4	
				23...		1052		55.8		5740		7.0		-110		12.5		2.2	
				23...		1053		59.0		6250		7.0		-125		13.0		2.1	
				23...		1054		62.3		6510		7.0		-131		13.5		2.0	
				23...		1055		65.6		6510		7.0		-135		13.5		2.0	
				23...		1056		68.9		6540		7.0		-141		13.5		2.2	
				23...		1057		72.2		6530		7.0		-142		14.0		2.2	
				23...		1058		75.5		6500		7.0		-148		14.0		1.9	
				23...		1059		78.7		6390		7.0		-150		14.0		1.8	
				23...		1100		82.0		6570		7.0		-150		14.0		1.9	
				23...		1101		85.3		6620		7.0		-151		14.0		1.9	
				23...		1102		88.6		6630		7.0		-152		14.0		1.9	

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 103 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:		380420089161601								
LAKE LAT-LONG:		380412 0891610		WATER-QUALITY DATA						
LAKE NAME:		UNNAMED LAKE NO. 29 NEAR DU QUOIN, IL								
LAKE SIZE (ACRES):		23.6								
MAXIMUM DEPTH (FEET):		53.0								
MAXIMUM WIDTH (MILES):		0.16								
MAXIMUM LENGTH (MILES):		0.27								
TRANSPARENCY (SECCHI DISC) (FEET):		14.8								
COLOR:		DARK GREEN								
VEGETATION:		GRASSES								
REMARKS:		MUCH AQUATIC VEGETATION.								
				Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
				July						
				08...	1024	.00	2650	7.9	27.0	8.3
				08...	1025	2.00	2650	7.8	26.5	7.8
				08...	1026	4.00	2660	7.9	26.5	7.7
				08...	1027	6.00	2650	7.9	26.5	7.7
				08...	1028	8.00	2650	7.9	26.5	7.7
				08...	1029	10.0	2660	7.8	26.5	7.5
				08...	1030	12.0	2660	7.8	26.5	7.3
				08...	1031	14.0	2680	7.7	25.0	9.5
				08...	1032	16.0	2650	7.4	21.0	6.7
				08...	1033	18.0	2610	7.4	18.5	5.2
				08...	1034	20.0	2590	7.3	16.0	4.5
				08...	1035	22.0	2560	7.3	14.0	4.1
				08...	1036	24.0	2550	7.2	12.5	3.6
				08...	1037	26.0	2540	7.2	11.5	3.0
				08...	1038	28.0	2550	7.1	11.0	2.6
				08...	1039	30.0	2540	7.1	11.0	2.5
				08...	1040	32.0	2530	7.1	10.5	2.6
				08...	1041	34.0	2530	7.1	10.0	2.6
				08...	1042	36.0	2520	7.1	9.5	2.5
				08...	1043	38.0	2520	7.1	9.0	2.2
				08...	1044	40.0	2510	7.1	9.0	1.5
				08...	1045	42.0	2520	7.1	9.0	.8
				08...	1046	44.0	2520	7.0	8.5	.0
				08...	1047	46.0	2540	7.1	8.5	.0
				08...	1048	48.0	2560	7.1	8.0	.0
				08...	1049	50.0	2590	7.1	8.0	.0
				08...	1050	52.0	2620	7.1	8.0	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 104 - PYATTS QUADRANGLE (FIG. 16)

STATION ID: 380528089210101		WATER-QUALITY DATA					
LAKE LAT-LONG: 380521 089210S							
LAKE NAME: UNNAMED LAKE NO. 3 NEAR PINCKNEYVILLE, IL							
LAKE SIZE (ACRES):	18.8			Spe- cific			
MAXIMUM DEPTH (FEET):	56.0		Sam- pling depth	con- duct- ance	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved
MAXIMUM WIDTH (MILES):	0.11	Date	(feet)	(µS/cm)			(mg/L)
MAXIMUM LENGTH (MILES): 0.51		June					
TRANSPARENCY (SECCHI DISC) (FEET): 5.9		27... 1429	.00	372	8.5	28.5	8.0
		27... 1430	2.00	374	8.6	28.5	7.8
COLOR: DARK GREEN		27... 1431	4.00	374	8.6	28.0	7.7
		27... 1432	6.00	374	8.5	28.0	7.6
VEGETATION: GRASSES		27... 1433	8.00	384	8.1	25.5	5.3
		27... 1434	10.0	387	7.8	23.0	3.3
REMARKS: GENTLY SLOPING SPOIL. OUTLET PRESENT.		27... 1435	12.0	396	7.6	20.0	.8
		27... 1436	14.0	405	7.5	17.5	.3
		27... 1437	16.0	410	7.4	16.0	.6
		27... 1438	18.0	411	7.3	15.0	.9
		27... 1439	20.0	422	7.3	14.5	1.3
		27... 1440	22.0	438	7.3	13.5	1.7
		27... 1441	24.0	461	7.3	12.5	2.3
		27... 1442	26.0	487	7.2	11.0	2.8
		27... 1443	28.0	494	7.3	10.5	3.2
		27... 1444	30.0	503	7.2	10.0	2.4
		27... 1445	32.0	504	7.2	9.5	1.5
		27... 1446	34.0	509	7.1	9.0	1.0
		27... 1447	36.0	512	7.1	9.0	.7
		27... 1448	38.0	513	7.1	9.0	.7
		27... 1449	40.0	511	7.1	9.0	.7
		27... 1450	42.0	510	7.1	9.0	.7
		27... 1451	44.0	514	7.1	9.0	.5
		27... 1452	46.0	513	7.1	9.0	.3
		27... 1453	48.0	512	7.1	9.0	.3
		27... 1454	50.0	514	7.1	8.5	.0
		27... 1455	52.0	514	7.1	8.5	.0
		27... 1456	54.0	515	7.1	8.5	.0
		27... 1457	55.0	515	7.1	8.5	.0

Table 1.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 105 - PINCKNEYVILLE AND PYATTS QUADRANGLES (FIGS. 15, 16)

STATION ID: 380530089223101								
LAKE LAT-LONG: 380526 0892209		WATER-QUALITY DATA						
LAKE NAME: UNNAMED LAKE NO. 1 AT PINCKNEYVILLE, IL								
LAKE SIZE (ACRES):	27.6			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	32.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.11	June						
MAXIMUM LENGTH (MILES):	0.49	30...	0930	.00	449	6.5	25.5	6.0
TRANSPARENCY (SECCHI DISC) (FEET): 0.3		30...	0931	2.00	340	6.4	23.5	3.1
		30...	0932	4.00	332	6.4	23.5	3.0
		30...	0933	6.00	304	6.4	23.5	3.5
VEGETATION: MARSHES		30...	0934	8.00	302	6.4	23.5	3.4
		30...	0935	10.0	297	6.4	23.5	3.6
		30...	0936	12.0	288	6.5	23.5	3.7
AIR TEMPERATURE (DEG C): 27.0		30...	0937	14.0	288	6.4	23.5	3.7
		30...	0938	16.0	286	6.5	23.5	3.8
		30...	0939	18.0	284	6.5	23.5	3.8
REMARKS: MUCH SEDIMENT IN WATER. INLET AND OUTLETS PRESENT. EVEN TO IRREGULAR SHORELINE.		30...	0940	20.0	283	6.5	23.5	3.7
		30...	0941	22.0	282	6.5	23.5	3.8
		30...	0942	24.0	282	6.5	23.5	3.7
		30...	0943	26.0	281	6.5	23.5	3.8
		30...	0944	28.0	281	6.5	23.5	3.8
		30...	0945	30.0	281	6.5	23.5	3.6
		30...	0946	31.0	284	6.5	23.5	3.5

LAKE NO. 106 - PYATTS QUADRANGLE (FIG. 16)

STATION ID: 380531089215201								
LAKE LAT-LONG: 380512 0892145		WATER-QUALITY DATA						
LAKE NAME: UNNAMED LAKE NO. 2 AT PINCKNEYVILLE, IL								
LAKE SIZE (ACRES):	23.5			Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
MAXIMUM DEPTH (FEET):	37.0	Date	Time					
MAXIMUM WIDTH (MILES):	0.05	June						
MAXIMUM LENGTH (MILES):	0.74	27...	1543	.00	630	8.1	29.5	7.4
TRANSPARENCY (SECCHI DISC) (FEET): 3.9		27...	1544	2.00	632	8.1	29.0	7.1
		27...	1545	4.00	633	8.1	29.0	7.0
		27...	1546	6.00	634	8.1	28.5	6.9
		27...	1547	8.00	648	7.6	26.5	3.5
		27...	1548	10.0	678	7.3	22.5	.7
		27...	1549	12.0	735	7.2	18.5	.2
		27...	1550	14.0	820	7.0	16.5	.0
		27...	1551	16.0	924	6.9	13.5	.0
		27...	1552	18.0	999	6.8	12.0	.0
		27...	1553	20.0	1070	6.8	11.5	.0
		27...	1554	22.0	1160	6.7	11.0	.0
		27...	1555	24.0	1210	6.7	10.5	.0
		27...	1556	26.0	1230	6.7	10.0	.0
		27...	1557	28.0	1380	6.6	10.0	.0
		27...	1558	30.0	1880	6.5	9.5	.0
		27...	1559	32.0	2220	6.5	9.5	.0
		27...	1600	34.0	2390	6.4	9.5	.0
		27...	1601	36.0	2450	6.4	9.5	.0

Table 2.--Site descriptions and physical-chemical measurements of selected lakes in Area 35--Continued

LAKE NO. 107 - PYATTS QUADRANGLE (FIG. 16)

STATION ID:		380556089205601						
LAKE LAT-LONG:		380548 0892056		WATER-QUALITY DATA				
LAKE NAME:		UNNAMED LAKE NO. 4 NEAR PINCKNEYVILLE, IL						
LAKE SIZE (ACRES):		41.4						
MAXIMUM DEPTH (FEET):		43.0						
MAXIMUM WIDTH (MILES):		0.10						
MAXIMUM LENGTH (MILES):		0.79						
TRANSPARENCY (SECCHI DISC)								
(FEET):		2.6						
COLOR:		BROWN						
VEGETATION:		GRASSES						
AIR TEMPERATURE (DEG C):		27.5						
REMARKS: GENTLY SLOPING SPOIL BANKS.								

Date	Time	Sam- pling depth (feet)	Spe- cific con- duct- ance (μ S/cm)	pH (stand- ard units)	Temper- ature (deg C)	Oxygen, dis- solved (mg/L)
June						
27...	1323	.00	494	8.4	28.0	7.0
27...	1324	2.00	496	8.3	27.5	7.2
27...	1325	4.00	497	8.3	27.5	6.3
27...	1326	6.00	496	7.9	26.0	3.0
27...	1327	8.00	506	7.6	24.0	.4
27...	1328	10.0	504	7.4	21.0	.2
27...	1329	12.0	509	7.3	18.0	.2
27...	1330	14.0	511	7.3	16.0	.2
27...	1331	16.0	519	7.2	15.0	.2
27...	1332	18.0	534	7.1	13.5	.6
27...	1333	20.0	550	7.1	12.5	1.6
27...	1334	22.0	563	7.1	11.0	2.2
27...	1335	24.0	570	7.1	10.5	2.2
27...	1336	26.0	583	7.1	10.0	1.7
27...	1337	28.0	596	7.1	9.5	1.4
27...	1338	30.0	607	7.1	9.0	.8
27...	1339	32.0	651	7.0	9.0	.2
27...	1340	34.0	675	7.0	9.0	.0
27...	1341	36.0	702	7.0	9.0	.0
27...	1342	38.0	713	6.9	8.5	.0
27...	1343	40.0	725	7.0	8.5	.0
27...	1344	42.0	725	7.0	8.5	.0