

STATE OF ILLINOIS
HENRY HORNER, Governor

SURFACE WATER SECTION
FILE COPY



PRELIMINARY DATA
ON
SURFACE WATER RESOURCES

DEPARTMENT OF REGISTRATION AND EDUCATION
J. J. HALLIHAN, Director

STATE WATER SURVEY DIVISION
A. M. BUSWELL, Chief

URBANA, ILLINOIS

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BULLETIN NO. 31

PRELIMINARY DATA
ON
SURFACE WATER RESOURCES

ISSUED BY

STATE WATER SURVEY DIVISION

A. M. BUSWELL, Chief

URBANA, ILLINOIS

ORGANIZATION

STATE OF ILLINOIS
HENRY HORNER, *Governor*
DEPARTMENT OF REGISTRATION AND EDUCATION
J. J. HALLIHAN, *Director*

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STATE WATER SURVEY DIVISION

A. M. BUSWELL, *Chief*



PRELIMINARY DATA
ON
SURFACE WATER RESOURCES

*Introduction-*The purpose of this bulletin is to make available a rather large mass of data in such a form that it can be used for the preparation of plans for future needs and growth, by water supply engineers, and others interested in the development of water resources.

The many calls for information concerning surface water supplies and the impossibility of the completion of an exhaustive survey of our State's water resources in the near future have prompted the publication of these preliminary data in this form and at the present time.

This material is arranged in three parts. Part I gives a list of 302 natural lakes with their location and area. Part II lists 210 private and public reservoirs with area, storage capacity and watershed area. Part III is a list of 587 possible reservoir sites as determined by an office study of topographic maps.

No attempt has been made to discuss these data nor to make any generalizations concerning water resources. Each part carries an introductory paragraph describing the way in which the material was collected and tabulated.

Data on chemical quality have not been included. The variation in dissolved and suspended solids content encountered in most surface waters makes an adequate treatment of this subject out of the question until a complete survey is made. Lake Decatur water for example has been known to vary as much as ten fold in hardness within a single month.

The present volume does not include any data on Lake Michigan nor any on the rivers of the State. The rivers were described in the 1914 Report of the Rivers and Lakes Commission of Illinois.

A considerable amount of information has been collected concerning those phases of surface water resources not covered in this bulletin.

The State Water Survey is prepared to supplement these published data for communities where local water problems exist, by preparation of special reports from material on file or by making detailed field surveys.

PART I

NATURAL LAKES

The tabulation of natural lakes has been compiled from a study of available maps including state, county and topographical; supplemented by correspondence and field inspection. Township maps in the county atlases were used when such material was available.

In spite of the various sources of material consulted there still were areas where little or no data were found. In general, however, such deficiencies were found in the more or less typically agricultural counties and therefore it is presumed that few lakes exist in these areas and that the tabulation as presented is at least 90 per cent complete.

In a majority of cases the lake areas were obtained by measuring the area as shown on the map by a planimeter but in the case of some of the smaller pools the data were obtained from the owner. In the main the areas may be regarded as closely correct. Depths were not known, hence no estimate of storage was attempted.

Although some ponds of as little as one acre are listed no systematic attempt was made to locate lakes of less than five acres.

LAKES IN THE STATE OF ILLINOIS

(Obtained from U.S.G.S. maps where available, and from County Post Road maps at all other places).

ADAMS COUNTY

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
Quincy.....	Spring.....	Sec. 11, T. 1 S., R. 9 W.....	12	<i>Feet</i> 500
Quincy.....	Quincy Bay.....	Secs. 15, 22, 23, 27 and 34, T. 1 S., R. 9 W.....	215	480
Quincy.....	Big.....	Secs. 22 and 26, T. 2 S., R. 9 W.....	35	480
Quincy.....	Twin.....	Sec. 26, T. 2 S., R. 9 W.....	6	458
Quincy.....	Turtle-Shell.....	Sec. 35, T. 2 S., R. 9 W.....	7	458
Marblehead.....	Snyder.....	Sec. 35, T. 2 S., R. 9 W.....	9	458
Marblehead.....	Kate.....	Sec. 36, T. 2 S., R. 9 W.....	15	459
Marblehead.....	Sand.....	Secs. 1 and 2, T. 3 S., R. 9 W.; Secs. 35 and 36, T. 2 S., R. 9 W.....	45	459
Kinderhook.....	Rogers.....	Sec. 36, T. 3 S., R. 8 W.....	10	460
Marblehead.....	Croppie.....	Sec. 2; T. 3 S., R. 9 W.....	3	459
Marblehead.....	Bluebill.....	Sec. 2, T. 3 S., R. 9 W.....	5	459

ALEXANDER COUNTY

✓E. Cape Girardeau.....	Edmondson Slough.....	Secs. 13 and 24, T. 14 S., R. 4 W.....	43	335
Cache.....	Grand.....	Sec. 26, T. 16 S., R. 2 W.....	35	310
Cache.....	Milligan.....	Sec. 4; T. 17 S., R. 2 W.....	7	320
Olive Branch.....	Horseshoe.....	Secs. 4, 5, 7, 8, 9, 10, 15, 16, 17, 18, 20 and 21, T. 16 S., R. 2 W.....	1,200	318

LAKES IN THE STATE OF ILLINOIS-Continued
BROWN COUNTY

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
LaGrange	Perkins	Sec. 32, T. 1 S., R. 1 W.	67	<i>Feet</i> 435
Meredosia	Elbow	Sec. 7, T. 2 S., R. 1 W.; Sec. 13, T. 2 S., R. 2 W.	12	430
Meredosia	Long	Sec. 13, T. 2 S., R. 2 W.	18	430

BUREAU COUNTY

Bureau	Spring	Secs. 4, 9 and 16, T. 15 N., R. 10 W.	170	470
Depue	Depue	Secs. 1, 2 and 3, T. 15 N., R. 10 W.; Secs. 35 and 36, T. 16 N., R. 10 W.	390	470

CALHOUN COUNTY

Belleview	Meridg	Sec. 29, T. 8 S., R. 3 W.	46	446
Pleasant Hill	Round Pond	Sec. 3, T. 8 S., R. 4 W.	28	445
Pleasant Hill	Dolman Pond	Secs. 4, 9 and 10, T. 8 S., R. 4 W.	43	445
Pleasant Hill	Emoritt	Secs. 5 and 6, T. 8 S., R. 4 W.	83	447
Belleview	Twin	Sec. 10, T. 8 S., R. 4 W.	31	444
Belleview	Pecan	Secs. 15 and 22, T. 8 S., R. 4 W.	10	445
Hardin	Sutter	Sec. 23, T. 9 S., R. 2 W.	6	430
Hardin	Hamilton	Sec. 14, T. 10 S., R. 2 W.	9	441
Star City	Gilead Slough	Secs. 30 and 31, T. 10 S., R. 2 W.; Secs. 6 and 7, T. 11 S., R. 2 W.	70	430
Star City	Middle Slough	Secs. 24 and 25, T. 10 S., R. 3 W.	40	435
Star City	Byrd Pond	Sec. 25, T. 10 S., R. 3 W.	5	435
Star City	Sand Slough	Sec. 25, T. 10 S., R. 3 W.	30	435
Star City	Mud Slough	Sec. 36, T. 10 S., R. 3 W.; Sec. 31, T. 10 S., R. 2 W.; Sec. 6, T. 11 S., R. 2 W.	40	430
Gilead	Stump	Sec. 7, T. 11 S., R. 2 W.	9	430
Kritesville	Watson	Sec. 19, T. 11 S., R. 2 W.	7	435
Kritesville	Bailey	Sec. 30, T. 11 S., R. 2 W.	4	435
Kritesville	Metz	Sec. 30, T. 11 S., R. 2 W.	9	435
Batchtown	Prairie	Sec. 31, T. 11 S., R. 2 W.	20	435
Batchtown	Long	Sec. 31, T. 11 S., R. 2 W.	4	435
Batchtown	Round	Sec. 31, T. 11 S., R. 2 W.	5	435
Batchtown	Black	Sec. 31, T. 11 S., R. 2 W.	7	435
Batchtown	Dixon Pond	Sec. 6, T. 12 S., R. 2 W.	15	435
Batchtown	Long	Sec. 6, T. 12 S., R. 2 W.	15	435
Batchtown	Round	Secs. 6 and 7, T. 12 S., R. 2 W.; Secs. 1 and 2, T. 12 S., R. 3 W.	10	434
Batchtown	George Bend Slough	Secs. 6 and 7, T. 12 S., R. 2 W.	12	434
Batchtown	Little Round Pond	Sec. 7, T. 12 S., R. 2 W.	5	434
Batchtown	Upper Flat Pond	Sec. 7, T. 12 S., R. 2 W.	4	434
Batchtown	Lower Flat Pond	Sec. 7, T. 12 S., R. 2 W.	15	434
Batchtown	Sand Bay	Secs. 7 and 18, T. 12 S., R. 2 W.; Sec. 12, T. 12 S., R. 3 W.	70	432
Batchtown	Fuller	Sec. 12, T. 12 S., R. 2 W.; Secs. 7 and 18, T. 12 S., R. 1 W.	21	424
Batchtown	Taylor	Sec. 13, T. 12 S., R. 2 W.	18	424
Brussels	Bundy	Sec. 19, T. 12 S., R. 1 W.; Sec. 24, T. 12 S., R. 2 W.	40	424
Brussels	Swan	Secs. 30, 31 and 32, T. 12 S., R. 1 W.; Sec. 5, T. 13 S., R. 1 W.	214	429
Brussels	Silver	Sec. 1, T. 13 S., R. 1 W.	9	400
Brussels	Flat	Sec. 9, T. 13 S., R. 1 W.	33	429
Brussels	Coon	Sec. 11, T. 13 S., R. 1 W.	5	400
Brussels	Royal	Sec. 14, T. 13 S., R. 1 W.	10	427

CARROLL COUNTY

Savanna	Idens	Sec. 24, T. 24 N., R. 3 E.	67	590
Savanna	Dyson	Secs. 31 and 32, T. 24 N., R. 4 E.	46	590

LAKES IN THE STATE OF ILLINOIS-Continued
CASS COUNTY

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
✓ Meredosia	Twin Ponds	Sec. 33, T. 17 N., R. 13 W.	24	Feet 430
✓ Meredosia	Meredosia	Secs. 34 and 35, T. 17 N., R. 13 W.	1,180	430
✓ Beardstown	Muscouten Bay	Secs. 1, 2 and 11, T. 18 N., R. 12 W.	950	410
✓ Chandlerville	Friend	Sec. 28, T. 19 N., R. 9 W.	5	450
✓ Beardstown	Myers Pond	Sec. 11, T. 18 N., R. 12 W.	45	410
✓ Chandlerville	Big	Sec. 31, T. 19 N., R. 9 W.	20	450
✓ Chandlerville	Little	Sec. 31, T. 19 N., R. 9 W.	5	450
✓ Chandlerville	Leeper	Sec. 32, T. 19 N., R. 9 W.	5	450
✓ Chandlerville	Cottonwood	Sec. 32, T. 19 N., R. 10 W.	40	430
✓ Chandlerville	Pike	Sec. 35, T. 19 N., R. 10 W.	5	450
✓ Beardstown	Sangamon Bay	Secs. 7 and 18, T. 19 N., R. 11 W.	375	430
✓ Beardstown	Treadway	Sec. 19, T. 19 N., R. 11 W.	580	430
✓ Beardstown	Clear	Sec. 35, T. 19 N., R. 11 W.	50	430

CLINTON COUNTY

New Memphis	Queen's	Secs. 9 and 16, T. 1 S., R. 5 W.	10	390
New Memphis	Long	Sec. 10, T. 1 S., R. 5 W.	12	390
Posey	Ash	Sec. 7, T. 1 N., R. 2 W.	1	410
Carlyle	Mossy	Sec. 1, T. 1 N., R. 3 W.	2	410
Bartelso	Bear	Secs. 1 and 12, T. 1 N., R. 3 W.	4	410
Bartelso	Townsend	Sec. 12, T. 1 N., R. 3 W.	4	410
Bartelso	Club	Sec. 13, T. 1 N., R. 3 W.	4	410
✓ Posey	Swan	Sec. 14, T. 1 N., R. 3 W.	5	410
✓ Bartelso	Long	Secs. 21, 22 and 28, T. 1 N., R. 3 W.	15	410
Bartelso	Cow	Sec. 22, T. 1 N., R. 3 W.	3	413
Bartelso	Walcott	Sec. 27, T. 1 N., R. 3 W.	4	410
Posey	Grassy	Sec. 23, T. 1 N., R. 3 W.	3	410
New Memphis	Horseshoe	Sec. 36, T. 1 N., R. 5 W.	10	390
Carlyle	Center	Sec. 3, T. 2 N., R. 2 W.	3	430
Carlyle	Clear	Sec. 3, T. 2 N., R. 2 W.	5	430
Carlyle	Coles	Sec. 4, T. 2 N., R. 2 W.	5	410
Carlyle	McMillan	Sec. 5, T. 2 N., R. 2 W.	5	410
Carlyle	Horseshoe	Sec. 31, T. 2 N., R. 2 W.	3	410
Beckemeyer	Bluff	Sec. 18, T. 2 N., R. 3 W.	5	430
Beckemeyer	Calamus	Sec. 19, T. 2 N., R. 3 W.	6	430
Carlyle	Blanke	Sec. 36, T. 2 N., R. 3 W.	3	430
Keyesport	Walcott	Sec. 11, T. 3 N., R. 2 W.	3	430
Keyesport	Horseshoe	Sec. 12, T. 3 N., R. 2 W.	3	430
Keyesport	Green	Sec. 13, T. 3 N., R. 2 W.	2	430
Keyesport	Sycamore	Sec. 13, T. 3 N., R. 2 W.	3	430
Keyesport	Parent	Sec. 23, T. 3 N., R. 2 W.	1	430
Keyesport	Crosskey	Sec. 24, T. 3 N., R. 2 W.	5	430
Beckemeyer	Big Lake	Sec. 7, T. 3 N., R. 3 W.	4	479
Beckemeyer	Frogtown	Sec. 36, T. 3 N., R. 4 W.	40	410

COOK COUNTY

Sag Bridge	Maple Hill	Sec. 8, T. 37 N., R. 12 E.	30	640
Chicago	Calumet	Secs. 13, 14, 22, 23 and 24, T. 37 N., R. 14 E.	2,280	570
Chicago	Wolf	Secs. 29 and 32, T. 37 N., R. 15 E.	975	581
Des Plaines	Shagbark	Sec. 21, T. 41 N., R. 12 E.	15	622
Barrington	Spring	Sec. 5, T. 42 N., R. 9 E.	20	708
Barrington	Goose	Sec. 9, T. 42 N., R. 9 E.	18	775

DuPAGE COUNTY

Hinsdale	Ruth	Sec. 14, T. 38 N., R. 11 E.	20	703
Hinsdale	Johnson Slough	Sec. 14, T. 38 N., R. 11 E.	20	703
Clarendon Hills	Mary's	Sec. 34, T. 39 N., R. 11 E.	15	700

LAKES IN THE STATE OF ILLINOIS-Continued
FRANKLIN COUNTY

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
Benton.....	Buckner Pond.....	Secs. 21 and 28, T. 6 S., R. 2 E.....	130	<i>Feet</i> 370
Plumfield.....	Buster Pond.....	Sec. 31, T. 7 S., R. 2 E.....	25	385

FULTON COUNTY

Bath.....	Stickey.....	Sec. 29, T. 3 N., R. 2 E.....	365	430
Bath.....	Anderson.....	Sec. 32, T. 3 N., R. 2 E.....	220	430
St. David.....	Goose.....	Sec. 3, T. 5 N., R. 5 E.....	630	430
St. David.....	Beebe.....	Sec. 4, T. 5 N., R. 5 E.....	105	430
St. David.....	Big.....	Secs. 26 and 34, T. 6 N., R. 5 E.....	750	430
St. David.....	Pond Lily.....	Secs. 26 and 35, T. 6 N., R. 5 E.....	65	410
St. David.....	Miserable.....	Secs. 28 and 33, T. 6 N., R. 5 E.....	145	410
St. David.....	Rice.....	Secs. 28 and 33, T. 6 N., R. 5 E.....	140	410

GALLATIN COUNTY

New Haven.....	Clark Pond.....	Secs. 27 and 28, T. 7 S., R. 10 E.....	30	350
New Haven.....	Goose Pond.....	Sec. 32, T. 7 S., R. 10 E.....	25	350
New Haven.....	Beaver Pond.....	Sec. 34, T. 7 S., R. 10 E.....	40	350
New Haven.....	Berdick.....	Sec. 3, T. 8 S., R. 10 E.....	10	350
New Haven.....	Ab.....	Secs. 28 and 33, T. 8 S., R. 10 E.....	50	350
New Haven.....	Round Pond.....	Sec. 10, T. 9 S., R. 10 E.....	50	350
New Haven.....	Fehrer.....	Secs. 10 and 11, T. 9 S., R. 10 E.....	35	350
Shawneetown.....	Welsh.....	Sec. 13, T. 9 S., R. 10 E.....	5	340
Shawneetown.....	Black.....	Sec. 15, T. 9 S., R. 10 E.....	10	323
Shawneetown.....	Big.....	Secs. 15 and 21, T. 9 S., R. 10 E.....	90	322
Shawneetown.....	Long.....	Sec. 16, T. 9 S., R. 10 E.....	10	370
Shawneetown.....	Fish.....	Sec. 22, T. 9 S., R. 10 E.....	40	321
Shawneetown.....	Mud.....	Sec. 1, T. 11 S., R. 9 E.....	35	320

GREENE COUNTY

Medora.....	Round.....	Sec. 9, T. 9 N., R. 10 W.....	15	470
Rock Bridge.....	Rives.....	Sec. 25, T. 10 N., R. 10 W.....	4	485
Carrollton.....	Horseshoe.....	Secs. 32 and 33, T. 11 N., R. 12 W.....	5	450
Hillview.....	Clark.....	Secs. 30 and 31, T. 12 N., R. 13 W.....	141	420

GRUNDY COUNTY

Morris.....	Goose.....	Secs. 10 and 11, T. 33 N., R. 7 E.....	435	465
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HENRY
~~HENDERSON~~ COUNTY

Hoopole.....	Goose.....	Secs. 9, 10, 15 and 16, T. 18 N., R. 5 E.....	150	-----
Hoopole.....	Mathis.....	Sec. 16, T. 18 N., R. 5 E.....	150	-----

JACKSON COUNTY

Elkville.....	Campbell.....	Secs. 1 and 2, T. 7 S., R. 1 W.....	100	380
Campbell Hill.....	Lovets Pond.....	Sec. 33, T. 8 S., R. 4 W.....	25	350
Neunert.....	Forked.....	Sec. 27, T. 9 S., R. 4 W.....	30	350

LAKES IN THE STATE OF ILLINOIS-Continued
JEFFERSON COUNTY

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
Waltonville.....	Scheller.....	Sec. 17, T. 4 S., R. 1 E.....	15	Feet 470

JERSEY COUNTY

Medora.....	Foster.....	Sec. 17, T. 9 N., R. 10 W.....	15	470
Rosedale.....	Little.....	Sec. 18, T. 7 N., R. 13 W.....	12	410
Rosedale.....	Flat.....	Sec. 18, T. 7 N., R. 13 W.....	15	410
Rosedale.....	Fowler.....	Secs. 20 and 29, T. 7 N., R. 13 W.....	27	410
Rosedale.....	Upper Flat.....	Sec. 32, T. 7 N., R. 13 W.....	18	410
Rosedale.....	Brushy.....	Sec. 32, T. 7 N., R. 13 W.....	10	410
Rosedale.....	Lower Flat.....	Sec. 32, T. 7 N., R. 13 W.....	15	410
Rosedale.....	Eagle.....	Sec. 32, T. 7 N., R. 13 W.....	10	410

JO DAVIESS COUNTY

Hanover.....	Wise.....	Sec. 21, T. 27 N., R. 1 E.....	40	590
Hanover.....	Yonkers.....	Sec. 28, T. 27 N., R. 1 E.....	45	590

LAKE COUNTY

Lake Zurich.....	Honey.....	Sec. 13, T. 43 N., R. 9 E.....	50	782
Lake Zurich.....	Grassy.....	Sec. 14, T. 43 N., R. 9 E.....	50	757
Lake Zurich.....	Lake Zurich.....	Secs. 17, 18, 19 and 20, T. 43 N., R. 10 E.....	205	843
Wauconda.....	Bangs.....	Sec. 25, T. 44 N., R. 9 E.....	285	773
Wauconda.....	Slocum.....	Sec. 28, T. 44 N., R. 9 E.....	225	736
Wauconda.....	Davis.....	Sec. 29, T. 44 N., R. 10 E.....	12	835
Wauconda.....	Schreiber.....	Sec. 29, T. 44 N., R. 10 E.....	5	835
Diamond Lake.....	Diamond Lake.....	Sec. 36, T. 44 N., R. 10 E.....	120	739
Libertyville.....	Butler's.....	Sec. 17, T. 44 N., R. 11 E.....	65	694
Fox.....	Pistakee.....	Secs. 9 and 6, T. 45 N., R. 9 E.; Secs. 8 and 17, T. 45 N., R. 8 E.....	1,550	735
Fox.....	Fox.....	Secs. 2, 3 and 4, T. 45 N., R. 9 E.....	1,670	736
Fox Lake.....	Nippersink.....	Sec. 4, T. 45 N., R. 9 E.....	450	736
Round Lake.....	Long.....	Sec. 13, T. 45 N., R. 9 E.....	335	739
Fox Lake.....	Duck.....	Sec. 14, T. 45 N., R. 9 E.....	65	739
Fox Lake.....	Redhead.....	Secs. 16 and 21, T. 45 N., R. 9 E.....	45	738
Fox Lake.....	Wooster.....	Sec. 23, T. 45 N., R. 9 E.....	95	742
Volo.....	Sullivan.....	Sec. 33, T. 45 N., R. 9 E.....	45	751
Volo.....	Fish.....	Sec. 35, T. 45 N., R. 9 E.....	80	751
Lake Villa.....	Sand.....	Sec. 2, T. 45 N., R. 10 E.....	115	775
Lake Villa.....	Slough.....	Sec. 3, T. 45 N., R. 10 E.....	55	775
Rollins.....	Fourth.....	Sec. 11, T. 45 N., R. 10 E.....	440	759
Grays Lake.....	Third.....	Secs. 13 and 24, T. 45 N., R. 10 E.....	155	763
Round Lake.....	Round.....	Sec. 21, T. 45 N., R. 10 E.....	215	761
Grays Lake.....	Taylor.....	Secs. 21 and 22, T. 45 N., R. 10 E.....	110	778
Grays Lake.....	Grays Lake.....	Secs. 27 and 34, T. 45 N., R. 10 E.....	65	787
Round Lake.....	Cranberry.....	Sec. 28, T. 45 N., R. 10 E.....	15	787
Grays Lake.....	Druce.....	Sec. 24, T. 45 N., R. 10 E.; Sec. 14, T. 45 N., R. 11 E.....	80	763
Grays Lake.....	Gages.....	Sec. 30, T. 45 N., R. 11 E.....	140	778
Waukegan.....	Dead.....	Sec. 3, T. 45 N., R. 12 E.....	20	583
Antioch.....	Channel.....	Secs. 11 and 12, T. 46 N., R. 9 E.....	320	736
Antioch.....	Lake Catherine.....	Sec. 12, T. 46 N., R. 9 E.....	145	736
Antioch.....	Lake Marie.....	Sec. 13, T. 46 N., R. 9 E.....	455	736
Spring Grove.....	Turner.....	Sec. 21, T. 46 N., R. 9 E.....	30	739
Antioch.....	Grass.....	Secs. 23, 26 and 27, T. 46 N., R. 9 E.....	1,360	736
Antioch.....	Bluff.....	Sec. 24, T. 46 N., R. 9 E.....	65	736
Lake Villa.....	Petite.....	Sec. 25, T. 46 N., R. 9 E.....	155	736
Fox Lake.....	Dunns.....	Sec. 33, T. 46 N., R. 9 E.....	60	737

LAKES IN THE STATE OF ILLINOIS-Continued.

LAKE COUNTY-Concluded.

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
Antioch.....	Deer.....	Sec. 11, T. 46 N., R. 10 E.....	40	<i>Feet</i> 768
Antioch.....	Silver.....	Sec. 16, T. 46 N., R. 10 E.....	40	765
Antioch.....	Loon.....	Secs. 20 and 21, T. 46 N., R. 10 E.....	330	773
Antioch.....	Huntley.....	Sec. 23, T. 46 N., R. 10 E.....	35	767
Lake Villa.....	Cedar.....	Sec. 32, T. 46 N., R. 10 E.....	320	790
Lake Villa.....	Sun.....	Sec. 33, T. 46 N., R. 10 E.....	25	778
Lake Villa.....	Deep.....	Sec. 33, T. 46 N., R. 10 E.....	200	767
Lake Villa.....	Crooked.....	Sec. 34, T. 46 N., R. 10 E.....	130	767
Lake Villa.....	Hastings.....	Sec. 35, T. 46 N., R. 10 E.....	65	765

LASALLE COUNTY

Streator.....	Spring.....	Sec. 27, T. 31 N., R. 3 E.....	15	585
Peru.....	Huse.....	Secs. 21 and 22, T. 33 N., R. 1 E.....	40	470

LAWRENCE COUNTY

Pinkstaff.....	Miller Pond.....	Sec. 16, T. 4 N., R. 10 W.....	30	420
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McHENRY COUNTY

Crystal Lake.....	Crystal.....	Sec. 1, T. 43 N., R. 7 E.....	225	891
Crystal Lake.....	Silver.....	Sec. 2, T. 43 N., R. 7 E.....	45	813
McHenry.....	McCullom.....	Sec. 22, T. 45 N., R. 8 E.....	235	757
Volo.....	Lily.....	Sec. 22, T. 44 N., R. 9 E.....	85	748
Fox Lake.....	Pistakee.....	See Lake County.....		
Volo.....	Griswold.....	Secs. 17 and 18, T. 44 N., R. 8 E.....	150	733
Woodstock.....	Lily.....	Sec. 24, T. 44 N., R. 8 E.....	50	916
Volo.....	Defiance.....	Sec. 6, T. 44 N., R. 9 E.....	55	736

MACOUPIN COUNTY

Macoupin.....	^e Myers.....	Sec. 20, T. 9 N., R. 8 W.....	30	519
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MADISON COUNTY

Granite City.....	<i>Wk. Donough</i> McDaniel.....	Sec. 17, T. 3 N., R. 8 W.....	75	410 412
Nameoki.....	Long.....	Secs. 2 and 3, T. 3 N., R. 9 W.....	85	416 410
Granite City.....	Horseshoe.....	Secs. 15, 16, 21, 22, 23 and 27, T. 3 N., R. 9 W.....	2,500	402 404
Madison.....	Canteen.....	Secs. 20 and 34, T. 3 N., R. 9 W.....	-105	415
Roxana.....	Grassy.....	Secs. 2 and 11, T. 4 N., R. 9 W.....	205	425
Woodriver.....	Smith.....	Secs. 25, 26 and 36, T. 5 N., R. 9 W.....	-100	420

MARSHALL COUNTY

Sparland.....	Goose.....	Sec. 1, T. 12 N., R. 9 E.....	100	439
Sparland.....	Wightman.....	Sec. 25, T. 12 N., R. 9 E.....	105	439
Chillicothe.....	Stillman's Slough.....	Sec. 15, T. 29 N., R. 3 W.....	205	439
Lacon.....	Billsbach.....	Sec. 11, T. 30 N., R. 3 W.....	187	439

LAKES IN THE STATE OF ILLINOIS-Continued
MASON COUNTY

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
				<i>Feet</i>
Chandlerville.....	Pratt.....	Sec. 4, T. 19 N., R. 8 W.....	15	---
Chandlerville.....	Bowles.....	Sec. 7, T. 19 N., R. 8 W.....	15	460
Chandlerville.....	Angelo.....	Sec. 7, T. 19 N., R. 8 W.....	20	460
Chandlerville.....	Fish.....	Secs. 14 and 15, T. 19 N., R. 9 W.....	40	440
Chandlerville.....	Lily.....	Secs. 17 and 20, T. 19 N., R. 9 W.....	10	440
Chandlerville.....	Bends.....	Sec. 20, T. 19 N., R. 9 W.....	40	440
Chandlerville.....	Prairie.....	Sec. 20, T. 19 N., R. 9 W.....	5	440
Chandlerville.....	Wolf.....	Sec. 30, T. 19 N., R. 9 W.....	50	440
Bath.....	Ingram.....	Sec. 6, T. 19 N., R. 10 W.....	485	435
Chandlerville.....	Silver Moon.....	Sec. 25, T. 19 N., R. 10 W.....	10	440
Chandlerville.....	Spring.....	Sec. 27, T. 19 N., R. 10 W.....	20	440
Chandlerville.....	Finch.....	Sec. 28, T. 19 N., R. 10 W.....	40	440
Chandlerville.....	Back.....	Sec. 28, T. 19 N., R. 10 W.....	5	435
Chandlerville.....	Little Picket.....	Sec. 28, T. 19 N., R. 10 W.....	5	435
Chandlerville.....	Cow.....	Sec. 28, T. 19 N., R. 10 W.....	45	435
Chandlerville.....	Calomel.....	Sec. 28, T. 19 N., R. 10 W.....	15	435
Chandlerville.....	Picket.....	Sec. 28, T. 19 N., R. 10 W.....	15	435
Chandlerville.....	Wilcox.....	Sec. 29, T. 19 N., R. 10 W.....	100	435
⊙ Bath.....	Chain.....	Sec. 3, T. 19 N., R. 11 W.....	525	435
Browning.....	Sangamon.....	Sec. 4, T. 19 N., R. 11 W.....	200	435
Browning.....	Crane.....	Sec. 12, T. 19 N., R. 11 W.....	1,005	435
Browning.....	Pinoak.....	Secs. 12, 13 and 14, T. 19 N., R. 11 W.....	60	435
Browning.....	Mound.....	Sec. 23, T. 19 N., R. 11 W.....	50	435
Browning.....	Otter.....	Secs. 24 and 25, T. 19 N., R. 11 W.....	30	435
Bath.....	Bell.....	Secs. 1 and 12, T. 20 N., R. 9 W.....	70	435
Bath.....	Bath.....	Secs. 5 and 8, T. 20 N., R. 10 W.....	135	435
Bath.....	Grass.....	Sec. 7, T. 20 N., R. 10 W.....	510	435
Bath.....	Swan.....	Secs. 12, 13 and 14, T. 20 N., R. 10 W.....	445	435
Bath.....	Moscow.....	Sec. 18, T. 20 N., R. 10 W.....	240	435
Bath.....	Jack.....	Sec. 23, T. 20 N., R. 10 W.....	1,030	435
⊙ Snicarte.....	Curtis.....	Sec. 26, T. 20 N., R. 10 W.....	20	435
⊙ Snicarte.....	Stafford.....	Secs. 32 and 33, T. 20 N., R. 10 W.....	435	435
⊙ Snicarte.....	Chain.....	Sec. 33, T. 20 N., R. 10 W.....	115	435
⊙ Snicarte.....	Stewart.....	Sec. 36, T. 20 N., R. 11 W.; Secs. 31 and 32, T. 20 N., R. 10 W.....	1,075	435
Matanzas.....	Matanzas.....	Secs. 22 and 27, T. 21 N., R. 9 W.....	415	435
Liverpool.....	Liverpool.....	Secs. 4, 8 and 9, T. 22 N., R. 8 W.....	405	410
Havana.....	Quiver.....	Sec. 19, T. 22 N., R. 8 W.....	525	410
Manito.....	Clear and Mud.....	Secs. 24, 25 and 36, T. 23 N., R. 8 W.; Secs. 19, 20 and 30, T. 23 N., R. 7 W.....	2,230	435

MASSAC COUNTY

Brookport.....	Allard.....	Sec. 19, T. 16 S., R. 6 E.....	60	318
Brookport.....	Loon.....	Sec. 20, T. 16 S., R. 6 E.....	35	318
Brookport.....	Kinneman.....	Secs. 28 and 34, T. 16 S., R. 6 E.....	100	318
Brookport.....	Beaver Dam.....	Sec. 1, T. 17 S., R. 6 E.....	50	318

MONROE COUNTY

Columbia.....	Hill.....	Sec. 5, T. 1 S., R. 10 W.....	20	395
Columbia.....	Gilmore.....	Sec. 25, T. 1 S., R. 10 W.....	10	645
Columbia.....	Howe.....	Sec. 24, T. 1 S., R. 11 W.....	35	395
Columbia.....	Waddle.....	Sec. 25, T. 1 S., R. 11 W.....	30	395
Valmeyer.....	Moredock.....	Secs. 26, 27, 34 and 35, T. 2 S., R. 11 W.....	540	395
Valmeyer.....	Foster Pond.....	Sec. 5, T. 3 S., R. 10 W.....	4	640
Waterloo.....	Bissel Pond.....	Sec. 9, T. 3 S., R. 10 W.....	10	645
Waterloo.....	Bartlett Pond.....	Sec. 10, T. 3 S., R. 10 W.....	5	645
Waterloo.....	Beaver Pond.....	Sec. 10, T. 3 S., R. 10 W.....	255	395
Fults.....	Branch.....	Sec. 18, T. 4 S., R. 10 W.....	75	395
Fults.....	Cavanah.....	Secs. 20 and 21, T. 4 S., R. 10 W.....	75	395
Maays.....	Rainer.....	Sec. 3, T. 4 S., R. 11 W.....	75	395

LAKES IN THE STATE OF ILLINOIS-Continued
MORGAN COUNTY

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
Meredosia.....	Billings.....	Sec. 4, T. 16 N., R. 13 W.....	31	<i>Feet</i> 430
Meredosia.....	Carver.....	Sec. 16, T. 16 N., R. 13 W.....	22	430
Meredosia.....	Meredosia.....	Secs. 26, 34 and 35, T. 17 N., R. 13 W.; Secs. 3, 9, 10 and 16, T. 16 N., R. 13 W.....	1,180	430

PIKE COUNTY

Chambersburg.....	Chisel.....	Secs. 11 and 14, T. 3 S., R. 2 W.....	60	425 X
Chambersburg.....	Woods.....	Sec. 13, T. 3 S., R. 2 W.....	15	425
Chambersburg.....	Barlow.....	Secs. 14 and 23, T. 3 S., R. 2 W.....	64	425 X
Griggsville.....	Shelly.....	Secs. 3, 4 and 9, T. 4 S., R. 2 W.....	160	435
Griggsville.....	McCoe.....	Sec. 17, T. 4 S., R. 2 W.....	5	435 X
Hull.....	Willow Pond.....	Secs. 32 and 33, T. 4 S., R. 7 W.....	9	450 X
E. Hannibal.....	Clear.....	Secs. 8 and 17, T. 4 S., R. 8 W.....	30	435 X
Hull.....	Burr Oak Pond.....	Sec. 4, T. 5 S., R. 7 W.....	15	450
Hull.....	Trester.....	Sec. 8, T. 5 S., R. 7 W.....	40	450
Hull.....	Pin Oak.....	Sec. 9, T. 5 S., R. 7 W.....	25	450 X
Hull.....	Broad Apron.....	Sec. 9, T. 5 S., R. 7 W.....	20	450
Atlas.....	Spatterdock.....	Sec. 33, T. 6 S., R. 5 W.....	35	445 X
New Canton.....	Clear.....	Secs. 5 and 6, T. 6 S., R. 6 W.....	40	450 X
Rockport.....	Halfmoon Slough.....	Sec. 6, T. 6 S., R. 6 W.....	45	450 X
Rockport.....	Stevenson Pond.....	Secs. 3, 10 and 9, T. 7 S., R. 5 W.....	10	450 X
Pleasant Hill.....	Spring.....	Secs. 3, 10 and 9, T. 7 S., R. 5 W.....	58	440 X
Pleasant Hill.....	Cockelburr Slough.....	Secs. 5 and 8, T. 7 S., R. 5 W.....	50	440 X
Pleasant Hill.....	Twin.....	Sec. 9, T. 7 S., R. 5 W.....	45	450 X
Pleasant Hill.....	Towhead.....	Sec. 14, T. 7 S., R. 5 W.....	67	450
Pleasant Hill.....	Upper Swan.....	Sec. 16, T. 7 S., R. 5 W.....	34	450
Pleasant Hill.....	Butcher.....	Sec. 21, T. 7 S., R. 5 W.....	35	450 X
Pleasant Hill.....	Lower Swan.....	Sec. 21, T. 7 S., R. 5 W.....	49	450
Pleasant Hill.....	Barton Pond.....	Sec. 22, T. 7 S., R. 5 W.....	20	450 X
Pleasant Hill.....	Snyder Pond.....	Sec. 24, T. 7 S., R. 5 W.....	31	450
Pleasant Hill.....	Horseshoe.....	Sec. 36, T. 7 S., R. 5 W.....	15	450 X

POPE COUNTY

New Liberty.....	Avery.....	Sec. 31, T. 16 S., R. 7 E.....	50	X
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PULASKI COUNTY

Wetang.....	Lence Pond.....	Sec. 2, T. 14 S., R. 1 W.....	6	
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PUTNAM COUNTY

Putnam.....	Goose.....	Sec. 2, T. 14 N., R. 10 E.....	105	430
Putnam.....	Senachwine.....	Secs. 11, 13 and 20, T. 14 N., R. 10 E.....	825	430
Florida.....	Saw-Mill.....	Secs. 29, 30, 31 and 32 , T. 31 N., R. 2 W.....	335	430
Granville.....	Turner.....	Secs. 19 and 20, T. 33 N., R. 1 W.....	465	470
Hennepin.....	Coleman.....	Secs. 33 and 34, T. 33 N., R. 2 W.....	140	450

LAKES IN THE STATE OF ILLINOIS-Continued
ST. CLAIR COUNTY

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
✓ Belleville.....	Christine.....	Sec. 11, T. 1 N., R. 8 W.....	30	Feet 500
✓ Cahokia.....	Goose.....	Sec. 36, T. 2 N., R. 10 W.; Sec. 1, T. 1 N., R. 10 W.....	390	400
✓ E. St. Louis.....	Pittsburg.....	Secs. 20, 21, 27, 28 and 34, T. 2 N., R. 9 W.....	990	410
✓ Caseyville.....	Spring.....	Sec. 11, T. 2 N., R. 9 W.....	10	410
✓ Venedy.....	Raccoon Pond.....	Sec. 24, T. 1 S., R. 6 W.....	5	390
✓ Venedy.....	Jew.....	Sec. 36, T. 1 S., R. 6 W.....	2	400
✓ Fayetteville.....	Long.....	Sec. 32, T. 1 S., R. 8 W.....	10	375
✓ Fayetteville.....	Bottom.....	Sec. 33, T. 1 S., R. 8 W.....	5	375
✓ Freeburg.....	Halfmoon.....	Sec. 10, T. 2 S., R. 7 W.....	18	390
✓ New Athens.....	Brush.....	Sec. 31, T. 2 S., R. 7 W.....	20	375
✓ New Athens.....	Winters.....	Secs. 18 and 19, T. 3 S., R. 7 W.....	10	390
✓ Venedy.....	Swan.....	Sec. 36, T. 1 S., R. 6 W.....	20	400
✓ Venedy.....	Dyer.....	Sec. 23, T. 1 S., R. 6 W.....	5	390

SALINE COUNTY

Carrier Mills.....	Open Pond.....	Sec. 7, T. 10 S., R. 5 E.....	60	390
Carrier Mills.....	Cottonwood Pond.....	Secs. 17 and 18, T. 10 S., R. 5 E.....	85	390

SANGAMON COUNTY

✓ Riverton.....	Mud.....	Sec. 8, T. 16 N., R. 4 W.....	10	515
Riverton.....	Clear.....	Sec. 22, T. 16 N., R. 4 W.....	10	515

SCHUYLER COUNTY

Beardstown.....	Little.....	Sec. 8, T. 1 N., R. 1 E.....	45	430
Beardstown.....	Big.....	Sec. 9, T. 1 N., R. 1 E.....	90	430
Browning.....	Sugar Creek.....	Secs. 3 and 4, T. 1 N., R. 1 E.....	120	430
Browning.....	Dutchman's.....	Secs. 24 and 25, T. 2 N., R. 1 E.....	73	430
Browning.....	Long.....	Secs. 18 and 19, T. 2 N., R. 2 E.....	215	430

SCOTT COUNTY

Florence.....	Ferry.....	Sec. 25, T. 14 N., R. 14 W.....	20	435
Bluffs.....	Smith.....	Sec. 6, T. 15 N., R. 13 W.....	175	435

TAZEWELL COUNTY

Banner.....	Sewell.....	Secs. 2 and 10, T. 23 N., R. 7 W.....	30	435
Banner.....	Spring.....	Secs. 3 and 9, T. 23 N., R. 7 W.....	535	431
Pekin.....	Myers.....	Secs. 1 and 12, T. 24 N., R. 5 W.....	65	520
Pekin.....	Dead.....	Secs. 3 and 9, T. 24 N., R. 5 W.....	45	435
Pekin.....	Worley.....	Secs. 22 and 23, T. 25 N., R. 5 W.....	120	435
Pekin.....	Pekin.....	Sec. 27, T. 25 N., R. 5 W.....	240	435

LAKES IN THE STATE OF ILLINOIS-Concluded
UNION COUNTY

At or near	Name of lake	Location	Area in acres	Sea level elevation when full
Larus.....	Wolf.....	Sec. 33, T. 11 S., R. 3 W.....	120	<i>Feet</i> 350
Dongola.....	Morgan Pond.....	Sec. 28, T. 13 S., R. 1 E.....	3	455

WASHINGTON COUNTY

Okawville.....	Half Moon.....	Sec. 1, T. 1 S., R. 5 W.....	10	395
Okawville.....	Clear.....	Sec. 22, T. 1 S., R. 5 W.....	10	395
Okawville.....	Muddy.....	Sec. 22, T. 1 S., R. 5 W.....	10	395

WHITE COUNTY

Concord.....	Clear Pond.....	Secs. 23 and 24, T. 6 S., R. 10 E.....	85	365
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WILL COUNTY

Plainfield.....	Renwick.....	Sec. 15, T. 36 N., R. 9 E.....	100	595
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PART II

ARTIFICIAL RESERVOIRS

The data for the tabulation of artificial reservoirs were obtained from the files of the State Water Survey and existing maps supplemented by considerable field inspection and some correspondence.

In the matter of pool area, storage and drainage area the figures were carefully obtained and there is every reason to assume that they are as correct as can be obtained without a detailed survey. In the case of the newer municipal reservoirs the figures are based on actual surveys by the designing engineers.

Although some reservoirs of less than one acre area are recorded no systematic attempt was made to list reservoirs smaller than one acre.

Many Country Clubs and Golf Clubs throughout the State have ponds or reservoirs on their properties which are not shown on existing maps and therefore have not been listed.

On a number of the strip mine areas ponds of considerable size have been left. In several places these ponds are being developed into recreational areas, the most notable of which are three developments a few miles west of Danville. In these developments the pond areas will total close to 500 acres.

TABULATION OF IMPOUNDING RESERVOIRS FOR MUNICIPAL AND INDUSTRIAL WATER SUPPLIES AND RECREATION

ADAMS COUNTY

Camp Point- "C. B. & Q. Reservoir", owned by the Chicago, Burlington, and Quincy Railroad is located on a branch of Figley Branch Creek in Section 35, T. 1 N., R 6 W. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 16.3 acres and an estimated storage of 45.9 million gallons. The drainage basin has an area of 1,391 acres.

Clayton- "Wabash Reservoir", owned by the Wabash Railroad, is located in Section 27, T. 1 N., R. 5 W. This reservoir furnishes water for locomotive and other railroad uses. It has, when full, a surface area of 0.75 acres, an estimated storage of three-quarters of a million gallons, and a watershed area of 320 acres.

Quincy- A reservoir owned by the Soldiers Home is located on Cedar Creek in Section 26, T. 1 S., R. 9 W. It has, when full, a surface area of 1.8 acres, an estimated storage of 2 million gallons, and a watershed area of 480 acres.

Riverside-A reservoir owned by the Boy Scout Camp is located in Section 1, T. 1 S., R. 9 W. It has, when full, a surface area of 1.5 acres, an estimated storage of 2 million gallons, and a watershed area of 480 acres.

ALEXANDER COUNTY

Gale-A reservoir owned by the heirs of Sam Hastings located in the N.W. 1/4 of Section 2, T. 15 S., R. 3 W. has, when full, an estimated pool area of 0.5 acre, a storage of approximately 1.0 million gallons, and a watershed area of 35 acres.

Gale-A reservoir owned by the heirs of Sam Hastings located in the S.W. 1/4 of Section 36, T. 14 S., R. 3 W. has, when full, an estimated pool area of 0.3 acres, an approximate storage of 1.5 million gallons, and a watershed area of 12 acres.

McClure-A reservoir owned by Tom McClure located in the S.W. 1/4 of the S.W. 1/4 of Section 6, T. 14 S., R. 2 W. has, when full, an estimated pool area of 2.0 acres, an approximate storage of 2 million gallons, and a watershed area of 150 acres.

BOND COUNTY

Greenville-"Ayers Reservoir", owned by the Chicago, Burlington, & Quincy Railroad, is located in Sections 15, 16, 21 and 22, T. 6 N., R. 3 W. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 17 acres, an approximate storage of 40 million gallons, and a drainage basin area of 1,200 acres.

BROWN COUNTY

Mt. Sterling-"Mt. Sterling Municipal Reservoir", owned by the City of Mt. Sterling, is located in the N.W. 1/4 of Section 4, and the N.E. 1/4 of Section 5, T. 1 S., R. 3 W. The spillway has an elevation of 638.0 feet above sea level. The pool area is 35 acres, the storage 100,000,000 gallons (306 acre feet), and the watershed area 1,152 acres.

CASS COUNTY

Virginia-"Virginia City Reservoir", owned by the City of Virginia, is located on Sobs Creek in Section 34, T. 18 N., R. 10 W. This reservoir furnishes the city water supply. The elevation at spillway crest is 570 feet above sea level and it has at this elevation an estimated storage of 60 million gallons, a surface area of 17 acres, and a drainage basin area of 960 acres.

CHRISTIAN COUNTY

Pana-"Pana Reservoir", owned by the City of Pana, is located on Bech Creek in Section 25, T. 11 N., R. 1 E. This reservoir furnishes the city water supply. It has, when full, a surface area of 70 acres, an estimated storage of 115 million gallons, and a drainage basin area of 3,840 acres.

CLAY COUNTY

Xenia-"Greendale Lake", owned by the Illinois Central Railroad Company, is located on Connors Branch in Section 31, T. 3 N., R. 5 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 93 acres, an estimated storage of 75 million gallons, and a drainage basin area of 4,800 acres.

Iola-"B. & O. Reservoir", owned by the Baltimore and Ohio Railroad is located in Section 27, T. 5 N., R. 5 E. It furnishes water for locomotive and other railroad uses. When full it has an estimated pool area of 1.5 acres, an approximate storage of 2 million gallons, and a watershed area of 640 acres.

Flora-"B. & O. Reservoir", owned by the Baltimore and Ohio Railway, is located in Section 36, T. 3 N., R. 6 E. This reservoir furnishes water at this point for locomotive and other railroad uses. The watershed area is insufficient to supply water from rainfall, therefore, the reservoir levels are maintained by pumping from 6 wells located at various points near the reservoir. There are two separate reservoirs. The reservoir to the east has a surface area of 14.45 acres, when full, and the one to the west has a surface area of 11.25 acres. The estimated storage of the two reservoirs is 36.14 million gallons and the drainage basin area is 640 acres.

Edgewood-"I. C. Reservoir", owned by the Illinois Central Railroad Company is located on Dismal Creek in Section 17, T. 15 N., R. 5 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 50 acres, an approximate storage of 50 million gallons, and a watershed area of 960 acres.

COLES COUNTY

Oakland-"Oakland City Reservoir", owned by the City of Oakland, is located in fractional Section 18, T. 14 N., R. 11 E. of the 3rd P. M. and fractional Sections 7 and 18, T. 14 N., R. 14 W., of the 2nd P. M. The original plans provide for spillway elevation at 630 feet above sea level, a pool area, when full, of 33.6 acres, a storage of 36 million gallons, and a watershed area of 8,300 acres. The reservoir as originally planned was to supply water for flushing and fire protection only.

Mattoon-"Paradise Lake", owned by the City of Mattoon, is located on the Wabash Creek in Sections 4, 5, 8 and 9, T. 11 N., R. 7 E. This reservoir furnishes the water supply for the city. The elevation at spillway crest is 688.5 feet above sea level. At this elevation the storage is 1,000 million gallons, the pool area 240 acres, and the drainage basin area 11,500 acres.

COOK COUNTY

Barrington-A small reservoir called Spring Lake is located in Section 5, T. 42 N., R. 9 E., and has, when full, a pool area of 20 acres, an

estimated storage of 20,000,000 gallons, and a watershed area of some 9,600 acres. In reality this is a widening of the channel of Spring Creek.

Barrington-A small reservoir or pond on a branch of Spring Creek in the N.E. 1/4 of Section 9, T. 42 N., R. 9 E., has, when full, a pool area of 22 acres, an estimated storage of 15,000,000 gallons, and a watershed area of about 560 acres.

Barrington-A small pond on the head waters of Flynn Creek in the N.E. 1/4 of Section 11, T. 42 N., R. 9 E., has, when full, a pool area of 28 acres, an estimated storage of 25,000,000 gallons, and a watershed area of 2,200 acres.

Barrington-A small pond on a tributary of Popular Creek in the S.E. 1/4 of Section 15, T. 42 N., R. 9 E., has, when full, a pool area of 18 acres, an estimated storage of 12,000,000 gallons, and a watershed of 500 acres.

Barrington-A small pond on a tributary of Popular Creek in the S.W. 1/4 of Section 14, T. 42 N., R. 9 E., has, when full, a pool area of 10 acres, an estimated storage of 7,000,000 gallons, and a watershed area of 100 acres.

Barrington-A small pond on the head waters of Spring Creek in the south 1/2 of Section 30, T. 42 N., R. 9 E., has, when full, a pool area of 14 acres, an estimated storage of 9,000,000 gallons, and a watershed area of 400 acres.

Cook County Forest Preserve-A small pond for recreational purposes in the S.E. 1/4 of Section 4, T. 42 N., R. 10 E., has, when full, a pool area of 18 acres, an estimated storage of 15,000,000 gallons, and a watershed area of 500 acres.

Cook County Forest Preserve-A small pond for recreational purposes in the S.E. 1/4 of Section 4, T. 42 N., R. 10 E., has, when full, a pool area of 12 acres, an estimated storage of 10,000,000 gallons, and a watershed area of 800 acres.

Glencoe-A Brick Yard pond in the S.W. 1/4 of Section 4, T. 42 N., R. 12 E., has, when full, an estimated pool area of 2.9 acres, and an estimated storage of 2,000,000 gallons.

Des Plaines-Shagbark Lake is a small body of water adjacent to the Des Plaines River in the southeasterly part of the City in the S.W. 1/4 of Section 21, T. 41 N., R. 12 E. It has, when full, a pool area of 7.9 acres, and an estimated storage of about 8,000,000 gallons.

Glencoe-The Cook County Forest Preserve is completing a recreational development in the Skokie Valley, west of Glencoe and Winnetka, that includes several ponds of considerable size.

Glenview-A small body of water located in the N.W. 1/4 of Section 26, T. 42 N., R. 12 E., has, when full, a pool area of 5.5 acres, and an estimated storage of 4,000,000 gallons.

Glenview-A small body of water in the S.W. 1/4 of Section 26, T. 42 N., R. 12 E., has, when full, a pool area of 1.7 acres, an estimated storage of 2,000,000 gallons, and a watershed area of about 30 acres.

Kenilworth-A small body of water in the N.E. 1/4 of Section 29, T. 42 N., R. 13 E., has, when full, a pool area of 1.5 acres, and an estimated storage of 1,000,000 gallons.

Kenilworth-A small body of water in the Indian Hill Club grounds in the N.W. 1/4 of Section 28, T. 42 N., R. 13 E., has, when full, a pool area of 1 acre, and an estimated storage of about 750,000 gallons.

Evanston-A small pond in the S.W. 1/4 of Section 33, T. 42 N., R. 13 E., has, when full, a surface area of 5.8 acres, and an estimated storage of 3,500,000 gallons.

Evanston-A long irregular pond in the S.E. 1/4 of Section 15, T. 41 N., R. 13 E., has, when full, a pool area of 3.5 acres, and an estimated storage of 2,000,000 gallons.

Chicago-The Bryn Mawr Golf Club has a small lake on the property in the S.E. 1/4 of Section 34, T. 41 N., R. 13 E., that has, when full, a pool area of 3.2 acres, and an estimated storage of 2,000,000 gallons.

Chicago-A pond in the S.E. 1/4 of Section 25, T. 41 N., R. 13 E., has, when full, a pool area of 4.4 acres, and an estimated storage of 3,000,000 gallons.

Chicago-Within the boundaries of Rose Hill Cemetery are three small lakes:

- a. The pond in the southeasterly corner of the property in the S.E. 1/4 of Section 6, T. 40 N., R. 14 E., has, when full, a pool area of 2.5 acres, and an estimated storage of 1,500,000 gallons.
- b. The pond near the center of the property in the S.W. 1/4 of Section 6, T. 40 N., R. 14 E., has, when full, a pool area of 1.7 acres, and an estimated storage of 1,000,000 gallons.
- c. The pond in the northwesterly part of the property in the N.W. 1/4 of the S.W. 1/4 of Section 6, T. 40 N., R. 13 E., has, when full, a pool area of 2 acres, and an estimated storage of 1,500,000 gallons.

Chicago-A small pond adjacent to the Chicago and North-Western Railway near Peterson Avenue in the S.E. 1/4 of Section 3, T. 40 N., R. 13 E., has, when full, a pool area of 1.6 acres, an estimated storage of 700,000 gallons, and a watershed area of 40 acres.

Chicago-The small lake in Graceland Cemetery in the S.E. 1/4 of Section 17, T. 40 N., R. 14 E., has, when full, a pool area of 2.9 acres, and an estimated storage of 2,000,000 gallons.

Chicago-Lincoln Park Yacht Harbor in the S.E. 1/4 of Section 21, T. 40 N., R. 14 E., has an area of 54 acres. It is connected to Lake Michigan.

Chicago-Lincoln Park Lagoon in the S.E. 1/4 of Section 28 and the E. 1/2 of Section 33, T. 40 N., R. 14 E., has an area of about 60 acres. It is connected to Lake Michigan.

Chicago-North Pond in Lincoln Park in the S.E. $\frac{1}{4}$ of Section 28, T. 40 N., R. 14 E., has, when full, a pool area of 7.3 acres, and an estimated storage of 7,000,000 gallons.

Chicago-South Pond in Lincoln Park in the S.E. $\frac{1}{4}$ of Section 33, T. 40 N., R. 14 E., has, when full, a pool area of 7.3 acres, and an estimated storage of 7,000,000 gallons.

Chicago-The lake in Humbolt Park in the N.W. $\frac{1}{4}$ of Section 1, T. 39 N., R. 13 E., has, when full, a pool area of 20.4 acres, and an estimated storage of 21,000,000 gallons.

Chicago-The lake in Garfield Park in the S. $\frac{1}{2}$ of Section 11, T. 39 N., R. 13 E., has, when full, a pool area of 19 acres, and an estimated storage of 20,000,000 gallons.

Chicago-The lake in Douglas Park in the W. $\frac{1}{2}$ of Section 24, T. 39 N., R. 13 E., has, when full, a pool area of 19 acres, and an estimated storage of 18,000,000 gallons.

Chicago-The lake in McKinley Park in the S.W. $\frac{1}{4}$ of Section 31, T. 39 N., R. 14 E., has, when full, a pool area of 11.6 acres, and an estimated storage of 10,000,000 gallons.

Cicero-At the Western Electric Company plant in the N.W. $\frac{1}{4}$ of the N.W. $\frac{1}{4}$ of Section 27, T. 39 N., R. 13 E., is a small reservoir having, when full, an estimated area of 5.5 acres, and an estimated storage of about 4,000,000 gallons.

Stickney-At the Hawthorne Race Track is a small pond located in the S.E. $\frac{1}{4}$ of Section 33, T. 39 N., R. 13 E. When full, the pool area of this pond is 3.5 acres, and the storage is estimated to be about 3,000,000 gallons.

Chicago-The Crane Company has a small pond on its property in the N.W. $\frac{1}{4}$ of the N.E. $\frac{1}{4}$ of Section 2, T. 38 N., R. 13 E., which has, when full, a pool area of 8.5 acres, and an estimated storage of 8,000,000 gallons.

Chicago-In the yards of the Chicago, Rock Island and Pacific Railway in the S.W. $\frac{1}{4}$ of Section 6, T. 38 N., R. 14 E., are two small reservoirs:

- a. The northerly one, when full, has a pool area of 3 acres, and an estimated storage of 3,000,000 gallons.
- b. The southerly pond has, when full, a pool area of 3 acres, and an estimated storage of 3,000,000 gallons.

Chicago-The Union Stock Yards and Transit Company has a small pond in the N.E. $\frac{1}{4}$ of the N.E. $\frac{1}{4}$ of Section 5, T. 38 N., R. 14 E., which has, when full, a pool area of 2.5 acres, and an estimated storage of 4,000,000 gallons.

Chicago-The Lagoon in Sherman Park in the S.E. $\frac{1}{4}$ of the S. W. $\frac{1}{4}$ of Section 8, T. 38 N., R. 14 E., has, when full, a pool area of 11.5 acres, and an estimated storage of 12,000,000 gallons.

Chicago-The lake in Ogden Park in the N.W. $\frac{1}{4}$ of Section 20, T. 38 N., R. 14 E., has, when full, a pool area of 8.8 acres, and an estimated storage of about 8,000,000 gallons.

Chicago-Gage Park has a very small pool located in the N.E. 1/4 of the N.E. 1/4 of Section 13, T. 38 N., R. 13 E., which has, when full, an approximate pool area of 0.5 acres, and an estimated storage of about 500,000 gallons.

Chicago-The lake in Marquette Park in the S.W. 1/4 of Section 24 and the S.E. 1/4 of Section 23, T. 38 N., R. 13 E., has, when full, a pool area of 52.5 acres, and an estimated storage of about 55,000,000 gallons.

Chicago-In the Clearing District are two small reservoirs:

- a. A reservoir in the N.W. 1/4 of Section 26, T. 38 N., R. 13 E., has, when full, a pool area of 7.3 acres, and an estimated storage of 7,000,000 gallons.
- b. A reservoir in the N.E. 1/4 of Section 27, T. 38 N., R. 13 E., has, when full, a pool area of about 5.8 acres, and a storage of 5,000,000 gallons.

Chicago-The lake or lagoon in Washington Park in the N.E. 1/4 of Section 15, T. 38 N., R. 14 E., has, when full, a pool area of 19 acres, and an estimated storage of 25 million gallons.

Chicago-The Jackson Park lagoons, four in number, are all inter-connected and also connected by direct outlets into Lake Michigan:

- a. The West Lagoon in the S.W. 1/4 of Section 13, T. 38 N., R. 14 E., has an area of 14.6 acres.
- b. East Lagoon, also in the S.W. 1/4 of Section 13, T. 38 N., R. 14 E., has a pool area of 46.6 acres.
- c. South Lagoon, most of which lies in the northeasterly portion of the N.W. 1/4 of Section 24, T. 38 N., R. 14 E., has a pool area of 19 acres.
- d. The Yacht Harbor located in the N.E. 1/4 of Section 24, T. 38 N., R. 14 E., has a pool area of about 25 acres.

Chicago-In Oakwood Cemetery in the S.W. 1/4 of Section 23, T. 38 N., R. 14 E., there are a number of small ponds, or reservoirs, developed largely for landscape purposes, although the water from them might be used for sprinkling. The areas of these have been grouped together, the total pool area being about 13 acres. It is estimated that the total storage is in the neighborhood of 8,000,000 gallons.

Chicago-There is in Portage Park in the S.W. 1/4 of Section 16, T. 40 N., R. 13 E., a small lake, which, when full, has a pool area of 3 acres, and an estimated storage of 3 million gallons.

Chicago-At the Chicago State Hospital in the S.E. 1/4 of Section 18, T. 40 N., R. 13 E., is a small pond developed largely for landscape purposes. It has, when full, an estimated pool area of one acre, and a storage, perhaps, of 650,000 gallons.

Chicago-Riis Park has a small lagoon in the S.W. 1/4 of Section 29, T. 40 N., R. 13 E., which, when full, has a pool area of about half an acre, and an estimated storage of 500,000 gallons.

River Grove-In Elmwood Cemetery in the N.E. 1/4 of Section 26, T. 40 N., R. 12 E., is a small lagoon which, when full, has an estimated pool area of 1.6 acres, and an estimated storage of 1,000,000 gallons.

- Maywood-Along* side the roadbed of the Minneapolis, St. Paul and Ste. Marie Railway in the N.E. 1/4 of Section 2, T. 39 N., R. 12 E., is a small borrow-pit pond which has, when full, a pool area of 3.4 acres, and an estimated storage of 2,000,000 gallons.
- Chicago-In* Columbus Park in the E. 1/2 of Section 17, T. 39 N., R. 13 E., is a small lagoon which, when full, has a pool area of about 11 acres, and an estimated storage of 11,000,000 gallons.
- Elmhurst-In* the Mt. Emblem Cemetery in the N.E. 1/4 of Section 25, T. 40 N., R. 11 E., is a small lagoon which has, when full, a pool area of about 3 acres, an estimated storage of 2,000,000 gallons, and a watershed area of about 2,200 acres.
- Elmhurst-A* small pond in the N.W. 1/4 of the N.E. 1/4 of Section 35, T. 40 N., R. 11 E., has, when full, a pool area of about 2 acres, and an estimated storage of 2 million gallons.
- Elmhurst-Westward* Ho Golf Club has a small narrow lagoon in the N.E. 1/4 of Section 31, T. 40 N., R. 12 E., which has, when full, an estimated area of 2 acres, a storage of 1,500,000 gallons, and a drainage area of about 3,800 acres.
- Hillside-In* the S.E. 1/4 of Section 17, T. 39 N., R. 12 E., are four small ponds:
- a. The northerly pond has, when full, an estimated pool area of 2.5 acres, and a storage of 2,000,000 gallons.
 - b. The easterly pond has, when full, a pool area of 3.4 acres, and an estimated storage of 3,500,000 gallons.
 - c. The southerly pond has, when full, a pool area of 2.5 acres, and an estimated storage of about 2,000,000 gallons.
 - d. The westerly pond has, when full, a pool area of 1.8 acres, and an estimated storage of 1,500,000 gallons.
- Spring Forest-Kiwanis* Boy Scout area has a lake in the S.W. 1/4 of Section 9, T. 37 N., R. 12 E., which, when full, has a pool area of 5.9 acres, an estimated storage of 10 million gallons, and a watershed area of about 80 acres.
- Palos Park-South* of Palos Park are two small ponds located in the N.E. 1/4 of the N.W. 1/4 of Section 35, T. 37 N., R. 12 E., the combined area of which, when full, is 6 acres. The estimated storage is about 6 million gallons, and the watershed is about 45 acres.
- Spring Forest-In* the S.E. 1/4 of Section 31, T. 38 N., R. 12 E., is a small pool having, when full, a pool area of 4.5 acres, and an estimated storage of 3,000,000 gallons.
- Spring Forest-In* the N.W. 1/4 of Section 8, T. 37 N., R. 12 E., is a recreational lake known as Tama Lake. It has, when full, a pool area of 30.6 acres, and an estimated storage of 50,000,000 gallons.
- Sag Bridge-In* the S.W. 1/4 of Section 13, T. 37 N., R. 11 E., is an irregular shaped pond having, when full, an area of 14.6 acres, and an estimated storage of 35,000,000 gallons.
- Sag Bridge-In* the S.E. 1/4 of **Section** 14, T. 37 N., R. 11 E., are **two** ponds whose total pool area, when full, is 5.5 acres. The estimated storage is about 7,000,000 gallons.

- Lamont-North* of Lamont in the N.E. 1/4 of Section 21, T. 37 N., R. 11 E., are some ponds which have a combined area of 16.2 acres, and an estimated storage of 20,000,000 gallons.
- Chicago-In* the S.E. 1/4 of Section 5, T. 37 N., R. 15 E., is a small pond on the property of the Youngstown Sheet and Tube Company. This lagoon, when full, has a pool area of about 4.9 acres, and a storage of 5 million gallons.
- Chicago-In* the N.E. 1/4 of Section 8, T. 37 N., R. 15 E., on the property of the Youngstown Sheet and Tube Company is a fair-sized lagoon which, when full, has a pool area of about 43.5 acres, and an estimated storage of 44,000,000 gallons.
- Bessemer Park-At* Bessemer Park in the S.E. 1/4 of the N.W. 1/4 of Section 6, T. 37 N., R. 15 E., are two small pools, the combined area of which will probably not exceed .015 of an acre.
- Chicago-In* the S.W. 1/4 of Section 1, T. 37 N., R. 14 E., is a small lagoon having, when full, a pool area of 3 acres, and an estimated storage of 3,000,000 gallons.
- Chicago-At* the Pullman Training School in the S.W. 1/4 of Section 15, T. 37 N., R. 14 E., is a small lagoon having a surface area of about 0.9 of an acre. The estimated capacity is about 300,000 gallons.
- Palmer Park-In* Palmer Park in the N.W. 1/4 of Section 22, T. 37 N., R. 14 E., are two small pools, the combined area of which is only 0.2 of an acre.
- South Deering-In* the S.W. 1/4 of Section 20, T. 37 N., R. 15 E., is a small lake having a pool area of about 11.6 acres, and an estimated storage of 7,000,000 gallons.
- Calumet City-In* the N.E. 1/4 of Section 8, T. 36 N., R. 15 E., is a small lagoon having a surface area of about 4.4 acres, and an estimated storage of 4,000,000 gallons.
- Calumet City-In* the S.E. 1/4 of Section 1, T. 36 N., R. 14 E., is a small pool with a surface area of about 3 acres, and an estimated storage of about 2,000,000 gallons.
- Dalton-In* the N. 1/2 of Section 2, T. 36 N., R. 14 E., is a brick yard pond having a pool area of about 16 acres, and an estimated storage of 15,000,000 gallons.
- Dalton-In* the S.E. 1/4 of the N.E. 1/4 of Section 3, T. 36 N., R. 14 E., are two brick yard ponds having a combined area of 3.3 acres, and an estimated storage of about 4,000,000 gallons.
- Dalton-In* the N.W. 1/4 of Section 10, T. 36 N., R. 14 E., is a small lake having a surface area of 20.2 acres, and an estimated storage of about 20,000,000 gallons.
- Blue Island-In* the S.W. 1/4 of Section 25, T. 37 N., R. 13 E., is a brick yard pond having an area of 55.4 acres, and an estimated storage of about 50,000,000 gallons.
- Blue Island-In* the S.W. 1/4 of Section 25 and the S.E. 1/4 of Section 26, T. 37 N., R. 13 E., are other brick yard ponds which have an area of 13.1 acres, and an estimated storage of 13,000,000 gallons.

Alsip-In the N.E. 1/4 of Section 28, T. 37 N., R. 13 E., is a small lake having a surface area of about 15 acres, and a storage of about 15,000,000 gallons.

Robbins-In the N.E. 1/4 of Section 2, T. 36 N., R. 13 E., is a group of small ponds, the total area of which is about 7 acres. The combined storage probably will not greatly exceed 5,000,000 gallons.

Riverdale-In the N.E. 1/4 of the N.W. 1/4 of Section 5, T. 36 N., R. 14 E., is a brick yard pond having a surface area of about 19 acres, and an estimated storage of 10,000,000 gallons.

Oak Forest-In the Oak Forest Institution in the N. 1/2 of Section 22, T. 36 N., R. 13 E., are two small lakes having a combined area of about 25 acres. The storage is estimated to be about 25,000,000 gallons.

Hazel Crest-West of Hazel Crest in the N.W. 1/4 of Section 26, T. 36 N., R. 13 E., is a small body of water having a surface area, when full, of about 8.0 acres, and an estimated storage of about 6,000,000 gallons.

East Hazel Crest-In the S.E. 1/4 of the S.E. 1/4 of Section 29, T. 36 N., R. 14 E., is a small pond having a surface area of about 1.5 acres. The estimated storage is about 1 million gallons.

Homewood-In the S.E. 1/4 of Section 32, T. 36 N., R. 14 E., are two groups of ponds:

- a. The northerly group has an area of about 13 acres and an estimated storage of 10,000,000 gallons.
- b. The southerly group has a surface area of about 5.8 acres, and an estimated storage of about 4,000,000 gallons.

Homewood-In the N.W. 1/4 of Section 6, T. 35 N., R. 14 E., west of the Illinois Central Railroad Tracks, are two brick yard ponds. The northerly one has an area of about 1.5 acres, and an estimated storage of 2,000,000 gallons and the southerly one has a pool area of about 1.5 acres, and a storage of about 1,000,000 gallons.

Calumet City-In the S.W. 1/4 of Section 18, T. 36 N., R. 15 E., is a small lagoon having a surface area of about 5 acres, and an estimated storage of about 5,000,000 gallons.

Bernice-In the N.E. 1/4 of Section 30, T. 36 N., R. 15 E., is a brick yard pond having a surface area of about 5.8 acres, and an estimated storage of about 5,000,000 gallons.

Bernice-In the S.E. 1/4 of Section 30, T. 36 N., R. 15 E., are three brick yard ponds:

- a. The northerly pond has an area of 3 acres, and an estimated storage of about 3,000,000 gallons.
- b. The southerly pond has an area of about 0.9 of an acre, and an estimated storage of about 1/2 million gallons.
- c. The easterly pond has an area of about 3 acres and an estimated storage of 2 1/2 million gallons.

Thornton-In the S.W. part of Thornton is a small pond in the N.W. 1/4 of Section 34, T. 36 N., R. 14 E., having an area of 5.9 acres, and an estimated storage of about 5,000,000 gallons.

- Lansing*-In the N.E. 1/4 of Section 5, T. 35 N., R. 15 E., adjacent to the Illinois-Indiana state line, is an industrial pond having an area of 23.3 acres and an estimated storage of 25,000,000 gallons.
- Chicago Heights*-In the N.W. 1/4 of Section 28, T. 35 N., R. 14 E., is an industrial pond having an area of .7 of an acre, and an estimated storage of 1/2 million gallons.
- Chicago Heights*-In the S.W. 1/4 of Section 28, T. 35 N., R. 14 E., is an industrial reservoir having an area of about 3.0 acres, and an estimated storage of 2,500,000 gallons.
- Matteson*-In the N.W. 1/4 of Section 26, T. 35 N., R. 13 E., is a small borrow-pit pond having an area of one acre, and an estimated storage of about 750,000 gallons.

CUMBERLAND COUNTY

- Toledo*-*"Village Reservoir"*, owned by the Village of Toledo, located in the S.E. 1/4 of the S.E. 1/4 of Section 30, T. 10 N., R. 9 E., is used for emergency purposes only. It has, when full at the spillway elevation of 590 feet, a surface area of 2.51 acres, and an estimated storage of 10,300,000 gallons. The drainage basin has an area of 765 acres.
- Vevey Park*-*"Vevey Park Reservoir"*, located in the S. 1/2 of Section 26, T. 10 N., R. 10 E., has, when full at the spillway elevation of 600 feet, a surface area of 7.5 acres, an estimated storage of 25,011,000 gallons, and a drainage basin area of 1,500 acres.
- Woodbury*-*"Lake Woodbury"*, located in the N.E. 1/4 of Section 28, T. 9 N., R. 8 E., has, when full, a surface area of 8 acres, an estimated storage of 25,181,000 gallons, and a drainage basin area of 1,200 acres.

DOUGLAS COUNTY

- Camargo*-*"Patterson Springs Reservoir"* is located on a branch of the Embarrass River in Section 29, T. 16 N., R. 9 E. This reservoir is used as a resort for fishing, etc. It has, when full, a surface area of 20 acres, a storage of approximately 60,000,000 gallons, and a watershed area of 1,600 acres.
- Camargo*-*"C. I. & W. Reservoir"*, owned by the Chicago, Illinois & Western Railway, is located in Section 35, T. 16 N., R. 9 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 5 acres, a storage of approximately 20 million gallons, and a watershed area of 640 acres.
- Villa Grove*-*"C. & E. I. Reservoir"*, owned by the Chicago & Eastern Illinois Railway, is located in Sections 10 and 11, T. 16 N., R. 9 E. The watershed area is insufficient to supply water from rainfall, therefore, the reservoir level is maintained by pumping from the Embarrass River. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 6.66 acres and an estimated storage of 17.5 million gallons. The estimated watershed area is 65 acres.

Villa Grove-"Old East Reservoir", owned by the Chicago & Eastern Illinois Railway, is located in Section 11, T. 16 N., R. 9 E. The watershed area is insufficient to supply water from rainfall, therefore, the reservoir level is maintained by pumping from the Embarrass River. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 2.81 acres, an estimated storage of 4.5 million gallons, and a watershed area of about 12 acres.

DUPAGE COUNTY

Clarendon Hills-Mays Lakes are located in the N.E. 1/4 of Section 34, T. 39 N., R. 11 E:

- a. The easterly lake has, when full, a pool area of 11.7 acres, and an estimated storage of 10,000,000 gallons.
- b. The westerly lake has, when full, a pool area of 5.8 acres, and an estimated storage of 5,000,000 gallons.

Clarendon Hills-At the Hinsdale Golf Club in the S.E. 1/4 of Section 3, T. 38 N., R. 11 E., is a small pond, which has, when full, a pool area of 3 acres and an estimated storage of 3,000,000 gallons.

Hinsdale-Johnson Slough in the N.E. 1/4 of Section 14, T. 38 N., R. 11 E., has, when full, a pool area of 20.4 acres, and an estimated storage of 15,000,000 gallons.

Hinsdale-Ruth Lake in the S.E. 1/4 of Section 14, T. 38 N., R. 11 E., has, when full, a pool area of 14.6 acres and an estimated storage of 10,000,000 gallons.

EDGAR COUNTY

Paris-"Paris Reservoir", owned by the City of Paris, is located on a branch of Sugar Creek in the S.E. 1/4 of Section 25, T. 14 N., R. 12 W. This reservoir furnishes water for the city supply and is also used as a resort for fishing, etc. It has, when full, a surface area of 180 acres, a storage of approximately 375 million gallons, and a watershed area of 11,330 acres.

EDWARDS COUNTY

Albion-"Bonpas Creek Reservoir", owned by the City of Albion, is located on Bonpas Creek in Section 33, T. 1 S., R. 14 W. This reservoir furnishes the city water supply. The elevation at spillway crest is 375.84 feet above sea level, at which elevation it has an estimated storage of 18,728 million gallons, a surface area of 25 acres, and a drainage area of 10,000 acres.

Albion-"High's Pond", owned by the City of Albion, is located in Section 12, T. 2 S., R. 10 E. This reservoir is used for farming purposes and when full has a surface area of 2 acres, an estimated storage of 4.5 million gallons, and a drainage basin area of 20 acres.

Albion-"New Brick Yard Reservoir", owned by the Albion Brick Company, is located on a branch of the Little Wabash River in Section 11, T. 2 S., R. 10 E. It has, when full, a surface area of 2 acres,

an estimated storage of 3.6 million gallons, and a drainage basin area of 100 acres. This reservoir is reported as not being used at present.

Albion-"Old Brick Yard Reservoir", owned by the Albion Brick Company, is located in Section 12, T. 2 S., R. 10 E. This reservoir furnishes water for the brick plant. It has, when full, a surface area of 2 acres, an estimated storage of 4.9 million gallons, and a drainage basin area of 12 acres.

EFFINGHAM COUNTY

Altamont-"B. & O. Reservoir", owned by the Baltimore and Ohio Railway, is located on Second Creek in Section 3, T. 7 N., R. 4 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of about one acre, an estimated storage of 2 million gallons, and a watershed of about 130 acres.

Effingham-"City Reservoir", owned by the Central Illinois Public Service Company, is located in Section 25, T. 8 N., R. 5 E. This reservoir furnishes the water supply for the City of Effingham. The watershed area is insufficient to supply water from rainfall, therefore, the reservoir level is maintained by pumping from the Little Wabash River. The elevation at spillway crest is 552 feet above sea level, at which elevation the storage capacity is 92 million gallons. The surface area is 19.7 acres and the watershed area 540 acres.

Effingham-"Kanaga Pond" is located in the S.E. 1/4 of Section 25, T. 8 N., R. 5 E. This reservoir furnishes water at this point for locomotive and other railroad uses and is owned by the Vandalia Railway. The elevation at spillway crest is 570.1 feet above sea level. It has, when full, a surface area of 6.5 acres, a storage of 11.35 million gallons, and a drainage basin area of 250 acres.

FAYETTE COUNTY

St. Elmo-"C. & E. I. Reservoir", owned by the Chicago and Eastern Illinois Railway, is located on a branch of Sugar Creek in Section 23, T. 7 N., R. 3 E. This reservoir furnishes water at this point for locomotive and other railroad uses. Elevation at spillway crest is 600.3 feet above sea level. Surface area, when full, is 10.8 acres, the estimated storage is 4.5 million gallons, and the drainage basin area is 1,880 acres.

St. Elmo-"City Reservoir", owned by the City of St. Elmo, is located on the south branch of Sugar Creek in Section 27, T. 7 N., R. 3 E. This reservoir furnishes the city water supply but is not used for drinking purposes. The elevation at spillway crest is 598 feet above sea level. The reservoir has a surface area, when full, of 16 acres, an estimated storage of 18 million gallons, and a drainage basin area of 1,932 acres.

Ramsey-"I. C. Reservoir", owned by the Illinois Central Railroad Company, is located on North Fork of Ramsey Creek in Section 16, T. 8 N., R. 1 E. This reservoir furnishes water at this point for locomotive and other railroad uses. The elevation at spillway crest is 574.4 feet above sea level. The reservoir has, when full, a surface area of 9 acres, a storage of about 4 million gallons, and a watershed area of 1,600 acres.

FRANKLIN COUNTY

Christopher-"IsaacWalton Club Reservoir" is owned by the Old Ben Coal Corporation and is used for recreational purposes only. It has a surface area, when full, of 25 acres, an estimated storage of 30 million gallons, and a watershed area of 200 acres.

Christopher-"New Reservoir", owned by the City of Christopher, is located on a branch of King Creek in Section 16, T. 6 S., R. 1 E. This reservoir furnishes the city water supply. It has, when full, a surface area of 40 acres, an estimated storage of 160 million gallons, and a drainage basin area of 960 acres.

Christopher-"Old Reservoir", owned by the City of Christopher, is located on a branch of Andy Creek in Section 23, T. 6 S., R. 1 E. This reservoir furnishes the city supply and has a surface area of 20 acres, an estimated storage of 60 million gallons, and a drainage basin area of 384 acres.

Christopher-"Mine No. 11 Reservoir", owned by the Old Ben Coal Corporation, is located on a branch of King Creek in Section 14 and Section 15, T. 6 S., R. 1 E. This reservoir furnishes the water supply for the mines. The elevation at spillway crest is 460 feet above sea level. The reservoir has, when full, a surface area of 50 acres, an estimated storage of 90 million gallons, and a drainage basin area of 400 acres.

Christopher-"Mine No. 10 Pond", owned by the Old Ben Coal Corporation, is located on a branch of Andy Creek in Section 24, T. 6 S., R. 1 E. This reservoir furnishes the water supply for the mines. The elevation at spillway crest is 430 feet above sea level. The reservoir has, when full, a surface area of 12.3 acres, an estimated storage of 10 million gallons, and a drainage basin area of 420 acres.

Christopher-"Mine No. 12 Pond", owned by the Old Ben Coal Corporation, is located on a branch of Andy Creek in Section 25, T. 6 S., R. 1 E., and Section 30, T. 6 S., R. 2 E. This reservoir furnishes the water supply for the mines and has a surface area of 17.43 acres, an estimated storage of 8.75 million gallons, and a watershed area of 190 acres.

Benton-"Hamilton Lake", owned by the City of Benton, is located in Sections 29, 30, 31, and 32, T. 5 S., R. 3 E. This reservoir furnishes the city water supply for Benton. Elevation at spillway crest is 439.4 feet above sea level. The reservoir has, when full, a surface area of 40 acres, a storage of approximately 175 millions gallons, and a watershed area of 1,000 acres.

Benton (Cabool Station)-The "C. & E. I. Reservoir" at Cabool Station is owned by the Chicago & Eastern Illinois Railroad. The reservoir really consists of two ponds both of which overflow into Lake Hamilton which supplies water to the city of Benton, Illinois.

The southerly pond is located for the main part in the N.E. 1/4 of the N.W. 1/4 of Section 32, T. 5 S., R. 3 E. When full, at spillway elevation 455.17 feet above sea level, it has a pool area of 5.08 acres, an estimated storage of 8,475,000 gallons and a watershed area of about 50 acres.

The northerly pond is located in the E. 1/2 of the S.W. 1/4 of Section 29, T. 5 S., R. 3 E. When full, at spillway elevation 454 feet above sea level, it has a pool area of 8.65 acres, an estimated storage of 8,685,000 gallons, and a watershed area of about 50 acres.

Benton-"C. & E. I. Reservoir", owned by the Chicago & Eastern Illinois Railway, is located in Section 29, T. 7 S., R. 4 E. This reservoir furnishes part of the water supply for the City of Benton. Elevation at spillway crest is 454 feet above sea level. Estimated storage is 17 million gallons. The reservoir has, when full, a surface area of 13.5 acres and a watershed area of about 400 acres.

Benton-"Lake Moses", owned by the U. S. Fuel Company, is located on Drummond Creek in Sections 3, 4, 5, 8, 9, and 10, T. 6 S., R. 3 E. This reservoir furnishes part of the water supply for the City of Benton and has, when full, a surface area of 211.5 acres. Elevation at spillway crest is 426.5 feet above sea level and the estimated storage is 560 million gallons. The drainage basin has an area of 2,000 acres.

Royalton-"Royalton Mine Reservoir", owned by the Royalton Mines, is located in Section 28, T. 7 S., R. 1 E. This reservoir furnishes the water supply for the mines and has, when full, a surface area of 21.2 acres. Elevation at spillway crest is 410 feet above sea level and the estimated storage is 22 million gallons. The drainage basin has an area of 169 acres.

Cambon-"C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located in the N.E. 1/4 of Section 20, T. 7 S., R. 2 E., and furnishes the water supply at this point for locomotive and other railroad uses. It has, when full, a surface area of 38.48 acres, an estimated storage of 45 million gallons, and a watershed area of 900 acres.

Valier-"C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located on Andy Creek in Section 36, T. 5 S., R. 1 E. This reservoir furnishes water at this point for locomotive and other railroad uses. Elevation at spillway crest is 442 feet above sea level. It has, when full, a surface area of 70 acres, an estimated storage of 109 million gallons, and a drainage basin area of 1,580 acres.

Sesser-"Sesser Reservoir", owned by the Old Ben Coal Corporation, is located on Sandusky Creek in Section 19, T. 5 S., R. 2 E. Elevation at spillway crest is 440 feet above sea level. This reservoir furnishes the city's water supply and has, when full, a surface area

of 45 acres, an estimated storage of 75.5 million gallons, and a drainage basin area of 750 acres.

The old "C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located in the N.E. 1/4 of Section 19, T. 5 S., R. 2 E. This reservoir has, when full, a pool area of about 8 acres, an estimated storage of 5,000,000 gallons, and a watershed area of about 20 acres.

The new "C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located in the S.W. 1/4 of Section 19, T. 5 S., R. 2 E. This reservoir furnishes water for locomotive and other railroad uses, and has, when full, a pool area of 53.6 acres, an estimated storage of 54,000,000 gallons, and a watershed area of about 700 acres.

Thompsonville-"*I. C. Reservoir*", owned by the Illinois Central Railroad Company, is located on a branch of Ewing Creek in Section 3, T. 7 S., R. 4 E. This reservoir furnishes water at this point for locomotive and other railroad uses. Elevation of spillway crest is 464 feet. It has, when full, a surface area of 53 acres, an estimated storage of 107 millions gallons, and a watershed area of 570 acres.

West Frankfort-"*C. & E. I. Reservoir*", owned by the Chicago & Eastern Illinois Railway, is located in Section 18, T. 7 S., R. 3 E. This reservoir furnishes water at this point for locomotive and other railroad uses, as well as supplying water for the mine. Elevation at spillway crest is 390 feet above sea level. It has, when full, a surface area of 13.65 acres, an estimated storage of 19,634,700 gallons, and a watershed area of 650 acres.

West Frankfort-"*Mine No. 15 Reservoir*", owned by the Old Ben Coal Corporation, is located in Section 35, T. 7 S., R. 2 E. This reservoir furnishes water for the mine and has, when full, a surface area of 13.25 acres. Elevation at spillway crest is 395 feet above sea level and the estimated storage is 10 million gallons. The watershed area is 640 acres.

West Frankfort-"*Old Ben Coal Company Reservoir*", owned by the Old Ben Coal Company, is located on a branch of Ewing Creek in Section 16, T. 7 S., R. 3 E. This reservoir furnishes the water supply for the mine. The elevation at spillway crest is 386 feet above sea level. At spillway level the pool area is estimated to be one acre, the storage 1,000,000 gallons, and the watershed area 130 acres.

West Frankfort-"*West Frankfort Reservoir*", owned by the City of West Frankfort, is located on Tilley Creek in Section 30, T. 7 S., R. 4 E. This reservoir furnishes the water supply for the city. It has, when full, a surface area of 149.5 acres and an estimated storage of almost 355 million gallons. Elevation at spillway crest is 439 feet above sea level. The drainage basin has an area of 2,427 acres.

Zeigler-"*Old Mine Reservoir*", owned by the City of Zeigler, is located in Section 13, T. 7 S., R. 1 E. This reservoir furnishes the city water supply. The watershed area is insufficient to supply water from rainfall, therefore, the reservoir level is maintained by pump-

ing from the Big Muddy River. When full the pool area is one acre, the storage 1.2 million gallons, and the watershed area about 12 acres.

Zeigler-*"New Mine Reservoir No. 2"*, owned by the Bell Zoller Mine, is located on Prairie Creek in Sections 22, 26, 27, T. 7 S., R. 1 E. This reservoir furnishes the water supply for the mine. Elevation at spillway crest is 375.6 feet above sea level. When full, the estimated pool area is 25.6 acres, the storage approximately 25 million gallons, and the watershed area 6,780 acres.

FULTON COUNTY

Astoria-*"Astoria Reservoir"*, owned by the City of Astoria, is located on a branch of Otter Creek in Section 15, T. 3 N., R. 1 E. Elevation at spillway crest is 600 feet above sea level. This reservoir furnishes the city's water supply and has, when full, a surface area of 7 acres, an estimated storage of 28 million gallons, and a drainage basin area of 300 acres.

Avon-*"Avon Country Club Reservoir"*, owned by the Chicago, Burlington and Quincy Railroad, is located on Mud Creek in Section 20, T. 8 N., R. 1 E. This reservoir is used for recreational purposes only. Elevation at spillway crest is 580 feet above sea level. It has, when full, a surface area of 21 acres, an estimated storage of 6.86 million gallons, and a drainage basin area of 2,560 acres.

Canton-*"Van Winkle Lake"*, owned by the Central Illinois Public Service Company, is located in Sections 33 and 34, T. 7 N., R. 4 E. Elevation of spillway crest is 609.50 feet above sea level. When full, the pool area is 14.7 acres, the estimated storage is 15,592,000 gallons, and the drainage basin area is 4,800 acres.

Vermont-*"City Reservoir"*, owned by the Village of Vermont, and located in the N.W. 1/4 of the S.E. 1/4 of Section 30, T. 4 N., R. 1 E., is used for washing, flushing, and fire protection only. Elevation of spillway crest is 604. The reservoir has a surface area of 0.51 acres, an estimated storage of 1,680,000 gallons, and a drainage basin area of 200 acres.

Vermont-*"C. B & Q. Reservoir"*, owned by the Chicago, Burlington & Quincy Railroad, is located on a branch of Otter Creek in Section 32, T. 4 N., R. 1 E. This reservoir furnishes water at this point for locomotive and other railroad uses. Elevation at spillway crest is 600 feet above sea level. It has, when full, a surface area of 45.73 acres, an estimated storage of 75.5 million gallons, and a drainage basin area of 3,000 acres.

GREENE COUNTY

Greenfield-*"Country Club Lake"*, owned by Woodbine Country Club, is located in Section 16, T. 11 N., R. 10 W. on a branch of Bear Creek. It is used for recreational purposes only and, when full, has a surface area of 8 acres, an estimated storage of 7.8 million gallons, and a drainage basin area of 200 acres.

Roodhouse-A reservoir owned by the Alton Railroad Company is located in Section 13, T. 12 N., R. 12 W. It has a surface area of about 30 acres, an estimated storage of 8 million gallons, and a watershed area of 960 acres.

Roodhouse-"Roodhouse Country Club Reservoir", owned by the Roodhouse Country Club, is located on Mill Creek in Section 19, T. 12 N., R. 11 W. This reservoir is used for recreational purposes only and has, when full, a surface area of 15 acres, an estimated storage of 14.7 million gallons, and a drainage basin area of 300 acres.

White Hall-"White Hall Reservoir", leased by the City of White Hall, is located on a branch of Wolf Run Creek in Section 36, T. 12 N., R. 12 W. This reservoir furnishes the water supply for the city and has, when full, a surface area of 45 acres, an estimated storage of 150 million gallons, and a drainage basin area of 1,240 acres.

HAMILTON COUNTY

McLeansboro-"City Reservoir", owned by the City of McLeansboro, is located on a branch of Ten Mile Creek in Sections 16 and 20, T. 5 S., R. 6 E. Elevation at spillway crest is 430.55 feet above sea level. This reservoir supplies the city with water. It has, when full, a surface area of 15 acres, an estimated storage of 30 million gallons, and a drainage basin area of 1,280 acres.

HANCOCK COUNTY

Basco-"C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located on a branch of Bear Creek in Section 10, T. 4 N., R. 7 W. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 1.5 acres, an estimated storage of 2.5 million gallons, and a watershed area of 320 acres.

Carthage-"Carthage Reservoir", owned by the City of Carthage, is located on Long Creek in Section 13, T. 5 N., R. 7 W. This reservoir furnishes the water supply for the city. It has, when full, a surface area of 45 acres, an estimated storage of 130 million gallons, and a watershed area of 1,600 acres.

Denver-"Denver Reservoir", owned by the Wabash Railroad, is located on Bronson's Creek in Section 32, T. 4 N., R. 6 W. It furnishes water for locomotive and other railroad uses. Elevation of spillway crest is approximately 660 feet and at this elevation the reservoir has a pool area of 1.04 acres, an estimated storage of 13,800 gallons, and a drainage basin area of 960 acres.

HARDIN COUNTY

Cave-In-Rock-"Benzon Fluor-Spar Mine Reservoir", owned by the Benzon Fluor-Spar Mine, is located in Section 3, T. 12 S., R. 9 E. Elevation at spillway crest is 440 feet above sea level. This reservoir furnishes the water supply for the mine. It has, when full, a surface area of 1.5 acres, an estimated storage of 14 million gallons, and a drainage basin area of 10 acres.

Rosiclare-"Hillside Fluor-Spar Mine Reservoir", owned by the Hillside Fluor-Spar Mine, is located in Section 29, T. 12 S., R. 8 E. This reservoir furnishes the water supply for the mine. The watershed is insufficient to supply water from rainfall, therefore, the reservoir level is maintained by pumping from the Ohio River. The reservoir has, when full, a surface area of 2.5 acres, an estimated storage of 5 million gallons, and a watershed area of 220 acres. Elevation of spillway crest is 386 feet above sea level.

Rosiclare-"Franklin Mine Reservoir", owned by the Franklin Fluor-Spar Mine, is located in Section 5, T. 13 S., R. 8 E. This reservoir furnishes the water supply for the mine. The watershed is insufficient to supply water from rainfall, therefore, the reservoir level is maintained by pumping from the Ohio River. The reservoir has, when full, a surface area of one acre, an estimated storage of 650,000 gallons, and a watershed area of 150 acres. Elevation at spillway crest is 350 acres.

Rosiclare-"Rosiclare Lake", owned by the Rosiclare Lead and Fluor-Spar Mine Company, is located on Cypress Branch in Section 32, T. 12 S., R. 8 E. This reservoir furnishes the water supply for the mine. It has, when full, a surface area of 3 acres, an estimated storage of 9 million gallons, and a drainage basin area of 100 acres. Elevation of spillway is 365 feet above sea level.

HENDERSON COUNTY

Gladstone-"South Lake of Sand Lakes", owned by the Chicago, Burlington & Quincy Railroad, is located in Section 17, T. 10 N., R. 5 W. It is used by the Terry and Lewis Sand and Gravel Company. Surface area is 18.5 acres with an estimated storage of 123,885,600 gallons. The watershed area is about 22 acres. Water comes from sand.

Gladstone-"North Lake of Sand Lakes", owned by the Terry & Lewis Sand and Gravel Company, is located in Section 17, T. 10 N., R. 5 W. It is used by the aforementioned company. Surface area is 16 acres with an estimated storage of 135,157,200 gallons. The watershed area is about 20 acres. Water comes out of sand.

HENRY COUNTY

Alpha-"Alpha Reservoir", owned by the Chicago, Burlington and Quincy Railroad, is located on a branch of Edwards River in Section 15, T. 14 N., R. 1 E. This reservoir furnishes water at this point for locomotive and other railroad uses, as well as recreational purposes. Elevation at spillway crest is 758.79 feet above sea level. It has, when full, a surface area of 20 acres, an estimated storage of 55 million gallons, and a watershed area of 385 acres.

Andover-"Andover Lake Club Lake", owned by the Village of Andover, is located in Sections 8 and 17, T. 15 N., R. 2 E. Elevation of spillway crest is 766.2 feet above sea level. The surface area at this elevation is 5.5 acres, the estimated storage 5,887,000 gallons, and the drainage basin area 173 acres.

Orion-"*Orion* Country Club Lake", leased by that Club, is located on Little Beaver Creek in Section 10, T. 16 N., R. 1 E. Elevation of spillway crest is 686.57 feet above sea level. It has, when full, a surface area of 5 acres, an estimated storage of 5 million gallons, and a drainage basin area of 1,817 acres.

Saxon-"*Indian* Creek Lake", owned by a Boy Scout Camp, is located on a branch of Spoon Creek in Section 34, T. 14 N., R. 5 E. Elevation of spillway crest is 726.01 feet above sea level. When full, it has a surface area of 1.8 acres, an estimated storage of 3,187,500 gallons, and a drainage basin area of 160 acres.

JACKSON COUNTY

Carbondale-"*Carbondale* Reservoir", owned by the City of Carbondale, is located on Piles Fork in Sections 32 and 33, T. 9 S., R. 1 W. The elevation at spillway crest is 432 feet above sea level. This reservoir furnishes the water supply for the city. It has, when full, a surface area of 145 acres, an estimated storage of 392 million gallons, and a drainage basin area of 2,560 acres.

Carbondale-"*Thompson* Lake", is a privately owned reservoir located in the N.W. 1/4 of Section 28, T. 9 S., R. 1 W. It is used for recreational purposes only. The elevation of the spillway is 441 feet above sea level. When full, the pool area is 30 acres, the estimated storage 25,000,000 gallons, and the watershed area 385 acres.

Elkville-"*Elkville* Country Club Lake", located about two miles south of Elkville in the northerly part of Section 32, and the southerly part of Section 29, T. 7 S., R. 1 W. was acquired by the Village of Elkville for the municipal water supply reservoir. When full, it has a pool area of 62 acres, an estimated storage of 93,000,000 gallons, and a watershed area of 915 acres.

Murphysboro-"*Corbin* Lake", located across the river and south of Murphysboro in the S.W. 1/4 of Section 9, T. 9 S., R. 2 W., is used for recreational purposes only. When full, it has a pool area of 10 acres, an estimated storage of 10,000,000 gallons, and a watershed area of 530 acres.

JEFFERSON COUNTY

Cravat-"*C. B. & Q.* Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located at Cravat in the S. 1/2 of Section 16, T. 1 S., R. 1 E., and furnishes water at that point for locomotive and other railroad uses. It has, when full, a surface area of 11.84 acres, an estimated storage of 13 million gallons, and a watershed area of 77 acres.

Mt. Vernon-"*Mt. Vernon* Reservoir", owned by the Illinois-Iowa Power Company, is located on Casey Fork in Sections 8 and 5, T. 2 S., R. 3 E. This reservoir is used for a reserve city water supply and has, when full, a surface area of 128 acres, an estimated storage of 760 million gallons, and a drainage basin area of 5,862 acres.

Mt. Vernon-*"Old City Reservoir"*, owned by the Illinois-Iowa Power Company, is located in Section 30, T. 2 S., R. 3 E. It is used as a reserve city supply. It has, when full, a pool area of 41 acres, a storage estimated at 75 million gallons, and a drainage basin area of 320 acres.

Waltonville-*"C. B & Q. Reservoir"*, owned by the Chicago, Burlington & Quincy Railroad, is located on Birch Creek in Section 1, T. 4 S., R. 1 E. Elevation at spillway crest is 450 feet above sea level. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 22.57 acres, an estimated storage of 60 million gallons, and a drainage basin area of 300 acres.

JOHNSON COUNTY

Cypress-*"C. & E. I Reservoir"*, owned by the Chicago and Eastern Illinois Railway, is located on Bear Branch in Section 20, T. 13 S., R. 2 E. Elevation at spillway crest is 358 feet above sea level. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 2.2 acres, an estimated storage of 10.2 million gallons, and a drainage basin area of 15 acres.

Goreville-*"C. & E. I. Reservoir"*, owned by the Chicago and Eastern Illinois Railway, is located in Section 22, T. 11 S., R. 2 E. This reservoir furnishes water at this point for locomotive and other railroad uses. Elevation at spillway crest is 710 feet above sea level. It has, when full, a surface area of 3 acres, an estimated storage of 8.378 million gallons, and a drainage basin area of 10 acres.

Goreville-*"C. & E. I. Reservoir"*, owned by the Chicago and Eastern Illinois Railway, is located in Section 22, T. 11 S., R. 2 E. Elevation at spillway crest is 690 feet above sea level. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 6 acres, an estimated storage of 13.310 million gallons, and a drainage basin area of 6 acres.

Vienna-*"Vienna City Reservoir"* from which the public water supply is obtained, is located in the S.E. 1/4, of the N.E. 1/4, and the N.E. 1/4 of the S.E. 1/4 of Section 3 and the W. 1/2 of the N.W. 1/4 of Section 2, T. 13 S., R. 3 E. The plans provided for a spillway crest elevation of 401.0 feet above sea level, a pool area, when full, of 21 acres, a storage of 35,000,000 gallons, and a watershed area of about 1,500 acres.

Vienna-*"C. C. C. & St. L. Reservoir"*, owned by the Cleveland, Cincinnati, Chicago and St. Louis Railway and located in the S.W. 1/4 of the N.W. 1/4 of Section 4, T. 3 S., R. 3 E., furnishes the water at Vienna for locomotive and other railroad uses. It has, when full, a surface area of 4.25 acres, an estimated storage of 7.5 million gallons, and a drainage basin area of 320 acres.

KNOX COUNTY

- Altona-"C. B. & Q. Reservoir"*, owned by the Chicago, Burlington, and Quincy Railroad, is located in Section 16, T. 13 N., R. 3 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 2.17 acres, an estimated storage of 7 million gallons, and a drainage basin area of 796 acres.
- Galesburg-"Lake Storey"*, owned by the Santa Fe Railway, is located on Henderson Creek in Sections 32, 33 and 34, T. 12 N., R. 1 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 162.5 acres, an estimated storage of 690 million gallons, and a drainage basin area of 5,056 acres. Elevation at spillway crest is 752 feet above sea level.
- Galesburg-"Rice Lake"*, owned by the Chicago, Burlington & Quincy Railroad, is located on a branch of Court Creek in Section 7, T. 11 N., R. 2 E. Elevation at spillway crest is 750 feet above sea level. This reservoir furnishes water for the Western Illinois Ice Company and a small amount to the Soangetaha Country Club. It has, when full, a surface area of 70.32 acres, an estimated storage of 275 million gallons, and a drainage basin area of 1,900 acres.
- Galesburg-"Highland Lake"*, owned by the Chicago, Burlington & Quincy Railroad, is located in Section 18, T. 11 N., R. 2 E. Elevation at spillway crest is 730 feet above sea level. This reservoir is leased by the Western Illinois Ice Company. It has, when full, a surface area of 25 acres, an estimated storage of 32 million gallons, and a drainage basin area of 150 acres.
- Galesburg-"Lake Bracken"*, owned by the Chicago, Burlington & Quincy Railroad, is located on Brush Creek in Sections 10, 11, 12 and 14, T. 10 N., R. 1 E. Elevation at spillway crest is 700 feet above sea level. This reservoir furnishes water for locomotive and other railroad uses and to the tie treating plant at the Chicago, Burlington & Quincy Railway yards near Galesburg, as well as for recreational purposes. It has, when full, a surface area of 184 acres, an estimated storage of 870 million gallons, and a drainage basin area of 5,700 acres.
- Galva-"Lake Calhoun"*, owned by the Galva Country Club, is located on Fitch Creek in Sections 14 and 23, T. 13 N., R. 4 E. Elevation at spillway crest is 714 feet above sea level. This reservoir furnishes water at this point for recreational purposes. It has, when full, a surface area of 44.3 acres, an estimated storage of 44.8 million gallons, and a drainage basin area of 8,400 acres. This lake has silted up badly.
- Randall-"Purinton Lake No. 1"* is located in Section 17, T. 11 N., R. 1 E. Spillway crest elevation is 714 feet above sea level. It has, when full, a surface area of 5.8 acres, an estimated storage of 35 million gallons, and a drainage basin area of 420 acres.

Randall-"Purington Lake No. 2" is located in Section 17, T. 11 N., R. 1 E. Spillway crest elevation is 714 feet above sea level. It has, when full, a surface area of 12.5 acres, an estimated storage of 65 million gallons, and a drainage basin area of 650 acres.

Rio-"C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located in Section 20, T. 13 N., R. 1 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 7.7 acres, an estimated storage of 15 million gallons, and a drainage basin area of 95 acres.

LOGAN COUNTY

*Lincoln-*A series of reservoirs produced by dredging of gravel deposits and known as "Lincoln Lakes" are located in Section 1, T. 19 N., R. 3 W. Surface area is 200 acres with an estimated storage of 3,270,000,000 gallons. The drainage basin has an area of 500 acres, but the lakes are maintained by outflow from the gravel deposits.

MCDONOUGH COUNTY

Bushnell-"C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located southwest of Bushnell in the S.W. 1/4 of Section 8, T. 6 N., R. 1 W., and furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 6.72 acres, an estimated storage of 15 million gallons, and a drainage basin area of 9,600 acres.

Macomb-"Macomb Reservoir", owned by the City of Macomb, is located on Spring Creek in Sections 15 and 16, T. 6 N., R. 3 W. This reservoir furnishes the city's water supply. It has, when full, a surface area of 85 acres, an estimated storage of 150 million gallons, and a drainage basin area of 13,000 acres.

Macomb-"Lamoine River Reservoir", owned by the City of Macomb, is located on the Lamoine River in Section 30, T. 6 N., R. 2 W. Elevation of spillway crest is 594 feet above sea level. It should be classed as channel storage rather than as a reservoir. It is used to furnish a portion of the city water supply. It has a surface area of one acre, an estimated storage of 2.5 million gallons, and a drainage basin area of 112,000 acres.

MCHEMRY COUNTY

McHenry-"Wonder Lake" is located on Nippersink Creek in Sections 12, 13, and 24, T. 45 N., R. 7 E., and Sections 6, 7, and 18, T. 45 N., R. 8 E. Elevation at spillway crest is 805 feet above sea level. This reservoir is used for recreational purposes only and has a surface area, when full, of 835 acres, an estimated storage of 1,950 million gallons, and a drainage basin of more than 92 square miles.

MCLEAN COUNTY

Bloomington-"Lake Bloomington", owned by the city, is located on Money Creek in Sections 1 and 12, T. 25 N., R. 2 E., and Sections

6, 7 and 18, T. 25 N., R. 3 E. Elevation at spillway crest is 715.04 feet above sea level. This reservoir furnishes the water supply for the city. It has, when full, a surface area of 530 acres, an estimated storage of 2,250 million gallons, and a drainage basin area of 38,400 acres.

MACON COUNTY

Decatur-"Lake Decatur", owned by the city, is located on the Sangamon River in T. 16 and 17 N., R. 2 and 3 E. Elevation at spillway crest is 610 feet above sea level. This reservoir furnishes water for the city's supply, as well as recreational purposes. It has, when full, a surface area of 2,747 acres, an estimated storage of 6 billion gallons, and a drainage basin area of 580,000 acres.

Decatur-"South Side Country Club Reservoir" is located on a branch of Spring Creek in the S.W. 1/4 of Section 28, T. 16 N., R. 2 E. Elevation of spillway is about 640 feet above mean sea level. This lake is used for recreational purposes and, when full, has a pool area of 4 acres, an estimated storage of 4 million gallons, and a watershed area of 960 acres.

Decatur-"Camp Seymour Lake" is a small reservoir on a branch of Big Creek in the N.E. 1/4 of Section 2, T. 15 N., R. 3 W. Spillway is about 610 feet above mean sea level. The reservoir is used for recreational purposes and, when full, has a pool area of 4 acres, an estimated storage of 4 million gallons, and a watershed area of 210 acres.

MACOUPIN COUNTY

Bunker Hill-"Bunker Hill Municipal Reservoir" is owned by the city and is located on Wood River about one mile west of the city in Section 16, T. 7 N., R. 8 W. It is the source of water for the municipal water supply system. Spillway is at elevation 583 feet above sea level and when the reservoir is full the pool area is 34 acres, the storage 62 million gallons, and the watershed area 4,800 acres.

Gillespie-"Gillespie Reservoir", owned by the city, is located on Rocky Ford Branch in Sections 10 and 15, T. 8 N., R. 7 W. Elevation at spillway crest is 464 feet above sea level. This reservoir furnishes the water for the city's supply, as well as for Benld. It has, when full, a surface area of 95 acres, an estimated storage of 250 million gallons, and a drainage basin area of 4,480 acres.

Gillespie-"Mine No. 1 Pond", owned by the Superior Coal Company, is located in the N.W. 1/4 of the N.W. 1/4 of Section 29, T. 8 N., R. 6 W. It is used for coal mining purposes and, when full, has a pool area of 15 acres, an estimated storage of 21.6 million gallons, and a watershed area of 300 acres.

Gillespie-"Mine No. 2 Pond", owned by the Superior Coal Company, is located in the S.W. 1/4 of the N.E. 1/4 of Section 6, T. 7 N., R. 6 W. It is used for coal mining purposes and, when full, has a pool

area of 16 acres, an estimated storage of 24.6 million gallons, and a drainage basin area of 930 acres.

Gillespie-"Mine No. 3 Pond", owned by the Superior Coal Company, is located in the S.E. 1/4 of the S.E. 1/4 of Section 26, T. 8 N., R. 7 W. It is used for coal mining operations and, when full, has a pool area of 20 acres, an estimated storage of 32.6 million gallons, and a drainage basin area of 485 acres.

Gillespie-"Mine No. 4 Pond", owned by the Superior Coal Company, is located in the S.E. 1/4 of the S.W. 1/4 of Section 10, T. 7 N., R. 7 W. It is used for coal mining operations and when full has a pool area of 20 acres, an estimated storage of 21 million gallons, and a drainage basin area of 6.38 square miles.

Gillespie-"Coal Washer Pond", owned by the Superior Coal Company, and located in the S.W. 1/4 of Section 17 and the S.E. 1/4 of Section 18, T. 8 N., R. 6 W. is not in use at the present time. When full, it has a pool area of 30 acres, an estimated storage of 18,000,000 gallons, and a watershed area of 0.0 acres.

Gillespie-"Coal Washer Pond", owned by the Superior Coal Company, and located in the S.W. 1/4 of the S.W. 1/4 of Section 17, T. 8 N., R. 6 W., on a branch of Cahokia Creek, is not at present in use. When full, the pool area is about 15 acres, the estimated storage 15 million gallons, and the watershed area 1,290 acres.

Macoupin-"Beaver Dam Lake" is owned by a Mr. Rhodes. It is located in Section 22, T. 9 N., R. 8 W. and is used exclusively for recreational purposes. When full, it has a water surface of 45 acres, an estimated storage of 43 million gallons, and a watershed area of 250 acres.

Mt. Olive-"Mt. Olive Reservoir", owned by the city, is located on Sugar Creek in Section 34, T. 8 N., R. 6 W., Section 3, T. 7 N., R. 6 W. This reservoir furnishes water for the city's supply. It has, when full, a surface area of 40 acres, an estimated storage of 200 million gallons, and a drainage basin area of 640 acres.

Mt. Olive-The new reservoir for Mt. Olive's water supply system is owned by the city and is located on Panther Creek in Sections 27 and 28, T. 8 N., R. 6 W. Elevation of spillway is 600 feet above sea level. When full, the pool area is 58 acres, the storage 150 million gallons, and the drainage basin area 3,520 acres.

Sawyerville-"Mine No. 2 Reservoir", owned by the Superior Coal Company, is located on a branch of Cahokia Creek in Section 6, T. 7 N., R. 6 W. Elevation at spillway crest is 590 feet above sea level. This reservoir furnishes the water supply for the mine. It has, when full, a surface area of 50 acres, an estimated storage of 42 million gallons, and a drainage basin area of 700 acres.

Stanton-"Stanton Reservoir", owned by the city, is located on a branch of the East Fork of Cahokia Creek, Sections 16 and 17, T. 7 N., R. 6 W. Elevation of spillway is 580 feet above sea level. This reservoir furnishes the water supply for the city. It has, when full, a surface area of 105 acres, an estimated storage of 382 million gallons, and a drainage basin area of 2,560 acres.

- Staunton*-The old Staunton municipal water supply reservoir is located on a branch of Sugar Camp Creek in the S.W. 1/4 of Section 21, T. 7 N., R. 6 W. Since the construction of the new reservoir, the old lake has been abandoned as a water supply for the city and is now used for a water supply for Consolidated Coal Company Mine No. 7. When full, the pool area is 15 acres, the estimated storage 15 million gallons, and the watershed area 192 acres.
- Virден*-*"C. B. & Q. Reservoir"*, owned by the Chicago, Burlington & Quincy Railroad, is located in Section 5, T. 12 N., R. 6 W. Elevation at spillway crest is 655 feet above sea level. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 14.87 acres, an estimated storage of 80 million gallons, and a drainage basin area of 150 acres.
- White City*-The Consolidated Coal Company has recently constructed a new reservoir for Mine No. 15. It is located in the N.E. 1/4 of the N.E. 1/4 of Section 16, T. 7 N., R. 6 W. The reservoir has, when full, a pool area of 15 acres, an estimated storage of 50 million gallons, and a drainage basin area of 300 acres.

MADISON COUNTY

- Godfrey*-The "Alton Railway Reservoir", owned by the Chicago & Alton Railway, is located on Rocky Fork Creek in Section 23, T. 6 N., R. 10 W. Elevation at spillway crest is 610 feet above sea level. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 15 acres, an estimated storage of 7.5 million gallons, and a drainage basin area of 30 acres.
- Livingston*-The "C. C. C. & St. L. Reservoir", owned by the Cleveland, Cincinnati, Chicago & St. Louis Railroad, is located on a branch of Silver Creek in Section 11, T. 6 N., R. 6 W. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 22 acres, an estimated storage of 40 million gallons, and a drainage basin area of 2,000 acres.

MARION COUNTY

- Alma*-A small pond in Jolly Woods Park in the S.W. 1/4 of Section 7, T. 3 N., R. 3 E. is owned by Mr. R. E. Gregory. It is used for recreational purposes and, when full, has a pool area of 3 acres, an estimated storage of 5 million gallons, and a drainage basin area of 29 acres.
- Cartter*-*"C. & E. I. Reservoir"*, owned by the Chicago & Eastern Illinois Railway, is located in the S.W. 1/4, S.E. 1/4 of Section 31, T. 2 N., R. 3 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 7.9 acres, an estimated storage of 13.8 million gallons, and a watershed area of 35 acres.
- Centralia*-The "C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located on a branch of Crooked Creek in

Section 31, T. 2 N., R. 1 E. This reservoir is now abandoned by the railroad, but it is sometimes used by the city of Centralia as an emergency supply. It has, when full, a surface area of 29.13 acres and an estimated storage of 90 million gallons. The drainage basin has an area of 368 acres.

Centralia-"Centralia Lake", owned by the City of Centralia, is located on a branch of Crooked Creek in Sections 4 and 5, T. 1 N., R. 2 E. Elevation at spillway crest is 510.4 feet above sea level. It has, when full, a surface area of 275 acres, an estimated storage of 1 billion, 80 million gallons, and a drainage basin area of 4,500 acres.

Iuka-The "B. & O. Reservoir", owned by the Baltimore and Ohio Railroad, is located on a branch of Skillet Fork in Sections 7 and 18, T. 2 N., R. 4 E. This reservoir supplies water at this point for locomotive and other railroad uses. It has, when full, a surface area of 12 acres, an estimated storage of 19 million gallons, and a watershed area of 1,370 acres.

Kinmundy-The "C. & E. I. Reservoir", owned by the Chicago and Eastern Illinois Railroad, is located on the East Fork of the Kaskaskia River in Section 10, T. 4 N., R. 3 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, an estimated storage of 20 million gallons, a pool area of 20 acres, and a watershed area of 320 acres.

Kinmundy-The "I. C. Reservoir", owned by the Illinois Central Railroad, located in the N.W. 1/4 of Section 27, T. 4 N., R. 3 E., supplies water for locomotive and other railroad uses at this point. The reservoir is also used for recreation by a local hunting and fishing club. It has, when full, a surface area of about 20 acres, an estimated storage of 20,000,000 gallons and a watershed area of about 320 acres.

Salem-"City Reservoir", owned by the City of Salem, is located on Town Creek in Section 2, T. 2 N., R. 2 E. and Section 35, T. 3 N., R. 2 E. This reservoir furnishes water for the city's supply. It has, when full, a surface area of 85 acres, an estimated storage of 225 million gallons, and a drainage basin area of 2,816 acres. Elevation of spillway crest is 545.4 feet above sea level.

Salem-The "C. & E. I. Reservoir", owned by the Chicago and Eastern Illinois Railway and located in the S. 1/2 of Section 1 and the N. 1/2, Section 12, T. 2 N., R. 2 E., furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 58 acres, an estimated storage of 120 million gallons, and a drainage basin area of 2,500 acres. Elevation of spillway crest is 525.56 feet above sea level.

MARSHALL COUNTY

Broodmoor-The "C. & N. W. Reservoir", owned by the Chicago & Northwestern Railway, is located on Hickory Creek in Section 6, T. 13 N., R. 8 E. Elevation at spillway crest is 780 feet above sea

level. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 22.5 acres, an estimated storage of 60 million gallons, and a drainage basin area of 1,150 acres.

Wenona-The "I. C. Reservoir", owned by the Illinois Central Railroad Company, is located on Sandy Creek in Section 1, T. 30 N., R. 1 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 17.5 acres, an estimated storage of 60 million gallons, and a watershed area of about 960 acres.

MASSAC COUNTY

Joppa-The "C. & E. I. Reservoir", owned by the Chicago & Eastern Illinois Railway, is located on a small tributary of the Ohio River in Section 14, T. 15 S., R. 3 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 8.64 acres, an estimated storage of 8 million gallons, and a watershed area of about 40 acres.

MONROE COUNTY

Waterloo-The "Waterloo City Reservoir", owned by the city, is located in Section 35, T. 2 S., R. 10 W. This reservoir furnishes the water supply for the city. The watershed is insufficient to supply water from rainfall, therefore, the reservoir level is maintained by pumping from Fountain Creek. This reservoir, when full, has a surface area of 4.8 acres, an estimated storage of 26 million gallons, and a drainage basin area of about 130 acres.

Waterloo-The "Waterloo Country Club Reservoir", owned by the Waterloo Country Club, is located on Gerhardt Creek in Section 13, T. 2 S., R. 10 W., and is used for recreational purposes. It has, when full, a surface area of 7 acres, an estimated storage of 7 million gallons, and a drainage basin area of about 130 acres.

MONTGOMERY COUNTY

Hillsboro-The "Hillsboro Reservoir", owned by the City of Hillsboro, is located on Brush Creek in Section 6, T. 8 N., R. 3 W., Section 31, T. 9 N., R. 3 W., and Section 36, T. 9 N., R. 4 W. This reservoir furnishes water for the city's supply, as well as the Country Club. It has, when full, a surface area of 96 acres, an estimated storage of 500 million gallons, and a drainage basin area of 4,800 acres.

Hillsboro-"Big Four Reservoir", owned by the Cleveland, Cincinnati, Chicago and St. Louis Railway, is located on Brush Creek in Sections 6, 7 and 8, T. 8 N., R. 3 W. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 48.4 acres, an estimated storage of 90 million gallons, and a drainage basin area of 3,000 acres.

- Hillsboro-The* old mine pond owned by the Kort Kamp Mine is located in the N.W. 1/4 of Section 5, T. 8 N., R. 3 W. When full, it has a pool area of one acre, an estimated storage of 650,000 gallons, and a watershed area of 30 acres. This reservoir is not used.
- Hillsboro-The* Ball Brothers Company (Glass Works) own a small reservoir located in the S.W. 1/4 of Section 6, T. 8 N., R. 3 W., and is not now in use. When full, this pond has a pool area of half an acre, an estimated storage of 940,000 gallons, and a watershed area of 5 or 6 acres.
- Hillsboro-The* Eagle-Pitcher Lead Company owns a small reservoir in the S.W. 1/4 of Section 1, T. 8 N., R. 4 W., which is not used now. When full, this pond has a pool area of 6 acres, an estimated storage of 2,000,000 gallons, and a watershed area of 35 acres.
- Hillsboro-The* "American Zinc Company Reservoir", owned by the City of Hillsboro, is located in Section 14, T. 8 N., R. 4 W. This reservoir is used for industrial purposes. It has, when full, a surface area of 46 acres, an estimated storage of 270 million gallons, and a drainage basin area of 3,000 acres.
- Litchfield-"Lake* Litchfield", owned by the City of Litchfield, is located on a tributary of West Fork of Shoal Creek in Section 35, T. 9 N., R. 5 W. This reservoir furnishes water for the city supply. The watershed area is insufficient to supply water from rainfall, therefore, the reservoir level is maintained by pumping from West Fork of Shoal Creek. This reservoir has, when full, a surface area of 57 acres, an estimated storage of 302 million gallons, and a drainage basin area of 800 acres.
- Litchfield-"Old City Reservoir"*, owned by the City of Litchfield, is located on Long Branch in Section 9, T. 8 N., R. 5 W. Elevation at spillway crest is 670 feet above sea level. This reservoir is used for recreational purposes only. It has, when full, a surface area of 30.45 acres, an estimated storage of 30 million gallons, and a drainage basin area of 1,500 acres.
- Litchfield-"Chautauqua* Park Lake" is located in the S.E. 1/4 of the S.E. 1/4 of Section 1, T. 8 N., R. 5 W. This originally was used for recreational purposes but the park is now abandoned. When full, the pool area is about 10 acres, the estimated storage 12,000,000 gallons, and the drainage basin area about 830 acres.
- Panama-The* "Mine Reservoir", owned by the Cosgrove, Meehan Coal Company. is located on a branch of Bearcat Creek in Section 22, T. 7 N., R. 4 W. This reservoir furnishes the water supply for the mine. It has, when full, a surface area of 18 acres, an estimated storage of 58,162,029 gallons, and a drainage basin area of 1,200 acres.
- Witt-"Mine Reservoir"*, owned by Mine No. 14, is located in Section 32, T. 10 N., R. 2 W. This reservoir furnished the water supply for the mine but is not now in use. It has, when full, a surface area of 17 acres, and an estimated storage of 7.960 million gallons. The drainage basin has an area of 1,400 acres.

MORGAN COUNTY

Concord-"*Concord Reservoir*", owned by the Chicago, Burlington & Quincy Railroad, is located on Lick Creek in Section 28, T. 16 N., R. 11 W. Elevation at spillway crest is 562 feet above sea level. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 20.6 acres, an estimated storage of 109 million gallons, and a drainage basin area of 500 acres.

Franklin-"*Franklin Outing Club Reservoir*" is owned by the Chicago, Burlington & Quincy Railroad and is located on a branch of Woods Creek in Section 31, T. 14 N., R. 8 W. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 27.08 acres, an estimated storage of 90 million gallons, and a watershed area of 265 acres.

Jacksonville-"*Jacksonville Reservoir*", owned by the City, is located on Mauvaise Terre Creek in Sections 26, 27, 28, 33 and 34, T. 15 N., R. 10 W. This reservoir furnishes the city water supply. It has, when full, a surface area of 250 acres, an estimated storage of 570 million gallons, and a drainage basin area of 15,360 acres.

PERRY COUNTY

Duquoin-*During* 1937 the City of Duquoin constructed, on Reese Creek in the S.E. 1/4 of the N.E. 1/4 of Section 29, T. 5 S., R. 1 W., a reservoir as a source of water for the municipality. With spillway at elevation 440 feet above sea level there is created a pool the area of which is 1.075 acres, with a storage of 590,000,000 gallons, and a watershed area of about 10 square miles.

Duquoin-*The* west pond of the Paradise Mine is located in the north half of Section 15, T. 6 S., R. 1 W. When full, the pool area is about 5 acres, the estimated storage 5,000,000 gallons, and the watershed area about 95 acres.

Duquoin-*The* east pond of the now abandoned Paradise Mine is located in the N.E. 1/4 of Section 15, T. 6 S., R. 1 W. It is now used for watering stock. When full, this pond has a pool area of 3 acres, an estimated storage of 3,000,000 gallons, and a watershed area of about 60 acres.

Duquoin-*The* Crerar, Clinch Coal Company owns a mine pond in the N.W. 1/4 of the S.W. 1/4 of Section 23, T. 6 S., R. 1 W. on a branch of Blacksop Creek. The water is used for general mine purposes. When full, it has a pool area of 20 acres, an estimated storage of 22,000,000 gallons, and a watershed area of about 195 acres.

Duquoin-*The* Perfection Coal Company has a mine pond in the S.W. 1/4 of Section 21, T. 6 S., R. 1 W. The water is used for general mine purposes. When full, the pond has a pool area of about 6 acres, a storage of 10,000,000 gallons, and a drainage basin area of 640 acres.

Skneyville The "I. C. Reservoir", owned by the Illinois Central Railroad, is located on William Creek in Section 1, T. 6 S., R. 2

W. Elevation at spillway crest is 445 feet above sea level. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 100 acres, an estimated storage of 100,000,000 gallons, and a drainage basin area of 700 acres.

Pinckneyville-"Elks Reservoir", owned by the Elks Club, is located on Panther Creek in Section 22, T. 5 S., R. 2 W. Elevation at spillway crest is 430 feet above sea level. This reservoir furnishes the water supply for the club. It has, when full, a surface area of 7 acres, an estimated storage of 7,000,000 gallons, and a drainage basin area of 320 acres.

Pinckneyville-"Breeze Lake", owned by the City of Pinckneyville, is located on a branch of Beaucoup Creek in Section 13, T. 5 S., R. 3 W. Elevation at spillway crest is 390 feet above sea level. This reservoir furnishes the water for an auxiliary supply for the city. It has, when full, a surface area of 10 acres, an estimated storage of 7,000,000 gallons, and a drainage basin area of 1,450 acres.

Pinckneyville-The "Coal Stripping Reservoir", owned by the Binkley Coal Company, is located on a branch of Galum Creek in the S.W. 1/4 of the N.E. 1/4 and the S.E. 1/4 of the N.W. 1/4 of Section 15, T. 6 S., R. 3 W. This reservoir is used for industrial purposes. It has, when full, a surface area of 20 acres, an estimated storage of 30 million gallons, and a drainage basin area of 100 acres.

Pinckneyville-The "Pyramid Coal Corporation Reservoir", owned by the Pyramid Coal Corporation, is located on a branch of Chicken Creek in Section 35, T. 5 S., R. 3 W. This reservoir is used for industrial purposes. It has, when full, a surface area of 15 acres, an estimated storage of 12 million gallons, and a drainage basin area of 80 acres.

PIKE COUNTY

Pittsfield-The "Pittsfield Reservoir", owned by the City of Pittsfield, is located on a branch of Panther Creek in Sections 13 and 14, T. 5 S., R. 4 W. Elevation at spillway crest is 685 feet above sea level. This reservoir furnishes the water supply for the city. It has, when full, a surface area of 50 acres, an estimated storage of 110 million gallons, and a drainage basin area of 1,920 acres.

RANDOLPH COUNTY

Coulterville-The "I. C. Reservoir", owned by the Illinois Central Railroad Company, is located on a branch of Mud Creek in Section 12, T. 4 S., R. 5 W. Elevation at spillway crest is 514 feet above sea level. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 85 acres, an estimated storage of 70,000,000 gallons, and a drainage basin area of 640 acres. This is called "The Lake" and is the source of the city water supply.

Sparta-The "Sparta Reservoir", owned by the City of Sparta, is located on Chambers Branch of Marys River in Section 7, T. 5 S., R. 5 W. This reservoir furnishes the water supply for the city. Elevation at spillway crest is 497.5 feet above sea level. It has, when full, a surface area of 35 acres, an estimated storage of 105 million gallons, and a drainage basin area of 780 acres.

Sparta-In 1936 the City of Sparta constructed a small auxiliary reservoir to supplement the older municipal reservoir on Chambers Branch. This newer reservoir is located on Maxwell Creek with the dam in the S.E. 1/4 of the S.E. 1/4 of Section 6, T. 5 S., R. 5 W. When full, the reservoir has a pool area of 12 acres, an estimated storage of 12,000,000 gallons, and a drainage basin area of 2,300 acres.

Sparta-A reservoir, owned by the Illinois Southern Railroad and the Sparta Country Club, is located in Sections 11 and 12, T. 5 S., R. 6 W. It furnishes water for locomotive and other railroad uses, as well as for recreational purposes. It has, when full, a surface area of 28 acres, an estimated storage of 30 million gallons, and a drainage basin area of 580 acres.

RICHLAND COUNTY

Olney-"Vernor Lake", owned by the City of Olney, is located in Sections 21 and 22, T. 4 N., R. 10 E. This reservoir furnishes the water supply for the city. The watershed area is insufficient to supply water from rainfall, therefore, the reservoir level is maintained by pumping from Fox River. This reservoir, when full, has a surface area of 35 acres, an estimated storage of 250 million gallons, and a drainage basin area of 300 acres.

ST. CLAIR COUNTY

Marissa-The "Marissa Country Club Reservoir", owned by the Country Club, is located on a branch of Mud Creek in Section 36, T. 3 S., R. 6 W. This reservoir is used for recreational purposes only. It has, when full, a surface area of 8 acres, an estimated storage of 15,000,000 gallons, and a drainage basin area of about 100 acres.

Mascoutah-The Mascoutah raw water reservoir is an artificial pool approximately 320 feet by 1,200 feet in area (8.8 acres) and is estimated to contain 30,000,000 gallons. It is a part of the municipal Water Works plant and is located in the N.E. 1/4 of Section 36, T. 1 N., R. 7 W. It is used exclusively to supply raw water to the Filter Plant. The reservoir is maintained by pumping from Silver Creek at such times when the creek water conditions are favorable.

SALINE COUNTY

Carrier Mills-At Mine No. 15 the Sahara Coal Company has, in the N.W. 1/4 of Section 35, T. 9 S., R. 5 E., a small pond for use in connection with mine operations. When full, it has a pool area of 5 acres, an estimated storage of 5,000,000 gallons, and a watershed area of 160 acres.

Carrier Mills-The Sahara Coal Company constructed in 1936 a new reservoir for strip mining operations. The reservoir is located in the N.E. 1/4 of Section 20, T. 9 S., R. 5 E. and has, when full, a pool area of 115 acres, and an estimated storage of 200,000,000 gallons. The pool is maintained by pumping from Bankston Creek.

Eldorado-The "City Reservoir", owned by the City of Eldorado, is located on Wolf Creek in Section 13, T. 8 S., R. 6 E. This reservoir furnishes the water supply for the city. It has, when full, a surface area of 135 acres, an estimated storage of 350 million gallons, and a drainage basin area of 2,000 acres. The elevation of spillway crest is 424.65 feet above sea level.

Eldorado-In Section 20, T. 8 S., R. 7 E. at Mine No. 10 the Sahara Coal Company has a small reservoir which they use for mining purposes. It has, when full, a pool area of 5 acres, an estimated storage of 5,000,000 gallons, and a drainage basin area of 120 acres.

Galatia-The Water Works system constructed by the City of Galatia in 1937 included a rectangular reservoir for the storage of raw creek water taken from Gassaway Creek at such times when the water is satisfactory. The reservoir is located in the N.E. 1/4 of Section 11, T. 8 S., R. 5 E. It has a pool area of 6.44 acres when full, and a computed storage of 23,500,000 gallons. It has no direct drainage basin other than its own area.

Harrisburg-The "City Reservoirs", owned by the Central Illinois Public Service Company, are located on Middle Fork in Sections 3 and 10, T. 9 S., R. 6 E. These reservoirs furnish the water supply for the City of Harrisburg, as well as the power plant. No. 1 has a surface area, when full, of 35 acres, and an estimated storage of 151.7 million gallons. No. 2 has a surface area, when full, of 37 acres and an estimated storage of 160.3 million gallons. The watershed area is insufficient to supply water from rainfall, therefore, the reservoirs are maintained by pumping from the Middle Fork of the Saline River.

Harrisburg-The "C. C. C. & St. L. Reservoir", owned by the Cleveland, Cincinnati, Chicago and St. Louis Railway, located in the S.E. 1/4 of Section 3, T. 9 S., R. 6 E. furnishes water at this point for locomotive and other railroad uses. It has, when full, a pool area of 5.5 acres, an estimated storage of 20 million gallons, and a drainage basin area of 20 acres.

Harrisburg-The Central Illinois Public Service Company has a small reservoir, which is used as a cooling pond for the "Muddy Power Plant", located in the S.E. 1/4 of Section 3, T. 9 S., R. 6 E. It has, when full, a pool area of 5 acres, an estimated storage of 5,000,000 gallons, and a watershed area of 160 acres.

Harrisburg-The Sahara Coal Company has, at Mine No. 12, a small pond located in the S.E. 1/4 of Section 3, T. 9 S., R. 6 E. which is used for mine purposes. When full, it has an area of 11 acres, and an estimated storage of 10,000,000 gallons. The pond is maintained by pumping from the Saline River.

Harrisburg-The Sahara Coal Company has, at Mine No. 1, a small pond in the N.E. 1/4 of Section 2, T. 9 S., R. 6 E. which is used for mine purposes. When full, it has a pool area of about 2 acres, and an estimated storage of 3,000,000 gallons. There is practically no drainage area.

SANGAMON COUNTY

Springfield-"*Springfield Lake*", owned by the City of Springfield, is located on Sugar Creek in T. 14 and 15 N., R. 4 and 5 W. This reservoir furnishes the city water supply. It has, when full, a surface area of 4,300 acres, an estimated storage of 21 billion, 400 million gallons, and a drainage basin area of 169,600 acres.

SCHUYLER COUNTY

Bader-The "C. B. & Q. Reservoir", owned by the Chicago, Burlington and Quincy Railroad, is located on Harris Branch of Sugar Creek in Section 1, T. 2 N., R. 1 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 19.4 acres, an estimated storage of 44.5 million gallons, and a drainage basin area of 700 acres.

SHELBY COUNTY

Holland-The "C. & E. I. Reservoir", owned by the Chicago & Eastern Illinois Railway, located in the S.W. 1/4 of the N.W. 1/4 of Section 15, T. 9 N., R. 4 E., supplies water at this point for locomotive and other railroad uses. This reservoir, when full, has a surface area of 3.2 acres, an estimated storage of 4.5 million gallons, and a watershed area of about 35 acres.

Westervelt-The "C. & E. I. Reservoir", owned by the Chicago and Eastern Illinois Railway, located in the S.E. 1/4 of the N.E. 1/4 of Section 21, T. 12 N., R. 3 E., supplies water at this point for locomotive and other railroad uses. It has, when full, a pool area of 6 acres, an estimated storage of 12 million gallons, and a watershed area of about 20 acres.

STARK COUNTY

LaFayette-"*Ingels Reservoir*", is located on Fitch Creek in Section 18 T. 13 N., R. 5 E. Spillway crest elevation is 710 feet above sea level. It has, when full, a surface area of 0.5 acre, an estimated storage of 600,000 gallons, and a drainage basin area of 600 acres. The reservoir is used for recreational purposes.

UNION COUNTY

Jonesboro-"*Anna State Hospital Reservoir*", owned by the State of Illinois is located on Kohler Creek in Section 14, T. 12 S., R. 2 W. This reservoir furnishes the water supply for the Hospital, and has, when full, a surface area of 10 acres, an estimated storage of

25 million gallons, and a drainage basin area of 640 acres. The elevation of the spillway crest is 439 feet above sea level.

VERMILION COUNTY

Danville-"Lake Vermilion", owned by the Inter State Water Company, is located on the north fork of Vermilion River in Sections 19 and 30, T. 20 N., R. 11 W. This reservoir furnishes the city water supply. It has, when full, a surface area of 900 acres, an estimated storage of 2 billion, 600 million gallons, and a drainage basin area of 170,880 acres. The elevation of spillway crest is 567 feet above sea level.

WARREN COUNTY

Monmouth-"Country Club Lake", is located in Section 28, T. 11 N., R. 2 W. on a tributary of Cedar Creek. It has a surface area of 3.05 acres, an estimated storage of 4,780,000 gallons, and a drainage basin area of 820 acres. The elevation of the spillway crest is 729 feet above sea level.

Monmouth-The "Monmouth Mining and Manufacturing Company Pond", owned by the Monmouth Mining and Manufacturing Company, is located on a tributary of Cedar Creek in Section 33, T. 11 N., R. 2 W. It has, when full, a surface area of 4.7 acres, an estimated storage of 16,430,000 gallons, and a drainage basin area of 480 acres. The elevation of the spillway crest is 760 feet above sea level.

Monmouth-The "C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, is located on the branch of Cedar Creek in Section 31, T. 11 N., R. 2 W. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 3.7 acres, an estimated storage of 4,000,000 gallons, and a drainage basin area of 580 acres. Elevation of spillway crest is 750 feet above sea level.

Monmouth-The "M. and St. L. Pond", owned by the Minneapolis and St. Louis Railroad, is located on a tributary of Cedar Creek in Section 30, T. 11 N., R. 2 W. It furnishes water for locomotive and other railroad uses. It has, when full, a surface area of 4.8 acres, an estimated storage of 5,000,000 gallons, and a drainage basin area of 640 acres. The elevation of the spillway crest is 755 feet above sea level.

Roseville-The "Roseville Ice Pond", is located on a branch of Nigger Creek in Section 30, T. 9 N., R. 2 W. It has, when full, a surface area of 3.1 acres, an estimated storage of 6,725,000 gallons, and a drainage basin area of 960 acres. The elevation of the spillway crest is 710 feet above sea level.

WASHINGTON COUNTY

Beaucoup-The "L. & N. Reservoir", owned by the Louisville and Nashville Railroad, is located in Section 15, T. 2 S., R. 2 W. It

furnishes water for locomotive and other railroad uses. It has, when full, a surface area of 4.5 acres, an estimated storage of 8,328,000 gallons, and a drainage basin area of 372 acres. The elevation of the spillway crest is 535.10 feet above sea level.

Nashville-"*Nashville* Municipal Reservoir", owned by the City of Nashville, furnishes water for the city supply. The reservoir is located in the north part of Section 19 and the south part of Section 18, T. 2 S., R. 2 W. The spillway crest is at elevation 502 feet above sea level. When full, the reservoir has a pool area of 25 acres, a storage of 100,000,000 gallons, and a watershed area of 1,000 acres.

WAYNE COUNTY

Fairfield-"*Fairfield* City East Reservoir", owned by the City of Fairfield, is located on Pond Creek in Section 31, T. 1 S., R. 8 E. This reservoir, which is now abandoned as a water supply and used for recreational purposes, has a surface area, when full, of 4.5 acres, an estimated storage of 15.1 million gallons, and a drainage basin area of 500 acres.

Fairfield-"*Fairfield* City West Reservoir", owned by the City, is located on Pond Creek in Section 36, T. 1 S., R. 7 E. This reservoir is used as a swimming pool. It has, when full, a surface area of 4 acres, an estimated storage of 8.5 million gallons, and a drainage basin area of 300 acres.

Fairfield-"*City* Park Lake", owned by the City of Fairfield, is located on a branch of Pond Creek in Section 6, T. 2 S., R. 8 E. This reservoir is used for recreational purposes. It has, when full, a surface area of 3.3 acres, an estimated storage of 5.4 million gallons, and a drainage basin area of 100 acres.

WHITE COUNTY

Norris City-"*Sandy* Run Country Club Lake" is located in the E. 1/2 of Section 7, T. 7 S., R. 8 E. on Sandy Run Creek. It is used for recreational purposes and, when full, has a pool area of 40 acres, an estimated storage of 45,000,000 gallons, and a watershed area of about 270 acres.

WILL COUNTY

Crete-"*Faithorn* Yards Reservoir", owned by the Chicago, Milwaukee, St. Paul and Pacific Railway, is located in Section 15, T. 34 N., R. 14 E. It furnishes water for locomotive and other railroad uses. It has, when full, a surface area of 8 acres, an estimated storage of 8,000,000 gallons, and a watershed area of about 130 acres.

WILLIAMSON COUNTY

Carterville-"*Carterville* Reservoir", owned by the Southern Illinois Water Company, is located on Hurricane Creek in Section 6, T. 9 S., R. 2 E. and Section 1, T. 9 S., R. 1 E. This reservoir furnishes

the water supply for the city. It has, when full, a surface area of 45 acres, an estimated storage of 155 million gallons, and a drainage basin area of 1,300 acres. Elevation of spillway crest is 423 feet above sea level.

Herrin-"Herrin Reservoir" No. 1, owned by the Herrin Water Company, is located on a branch of Hurricane Creek in Section 6, T. 9 S., R. 2 E. This reservoir furnishes the water supply for the City. It has, when full, a surface area of 37.2 acres, an estimated storage of 65 million gallons, and a drainage basin area of 1,140 acres. Spillway crest elevation is 432.82 feet above sea level.

Herrin-"Herrin Reservoir" No. 2, owned by the Herrin Water Company, is located on Wolf Creek in Section 20, T. 10 S., R. 2 E. This reservoir furnishes an auxiliary water supply for the City. It has, when full, a surface area of 56.15 acres, an estimated storage of 350 million gallons, and a drainage basin area of 2,000 acres. Elevation of spillway crest is 476 feet above sea level.

Herrin-There are three ponds connected together by culverts under railroad embankments located in the S.W. 1/2 of Section 20 and the N.W. 1/4 of Section 29, T. 8 S., R. 2 E. The northerly one is used as a spray pond for an industrial concern. When full, the total surface area is about 10 acres, the estimated storage 8,000,000 gallons, and the drainage basin area 480 acres.

Herrin-A small mine pond is located in the S.W. 1/4 of the N.E. 1/4 of Section 36, T. 8 S., R. 1 E. When full, the pool area is about 6 acres, the estimated storage 5,000,000 gallons, and the drainage basin area about 10 acres.

Herrin-There is a small pond near the center of Section 31, T. 8 N., R. 2 E. When full, it has an estimated pool area of 5 acres, a storage of 5,000,000 gallons, and a watershed area of 20 acres.

Herrin Junction-The "C. B. & Q. Reservoir", owned by the Chicago, Burlington & Quincy Railroad, furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 3.3 acres, an estimated storage of 13 million gallons, and a watershed area of about 7 acres.

Johnston City-"Johnston City Reservoir", owned by the Johnston City Water Company, is located on Lake Creek in Section 27, T. 8 S., R. 3 E. This reservoir furnishes the city's water supply. It has, when full, a surface area of 88 acres, an estimated storage of 111.5 million gallons, and a drainage basin area of 2,432 acres. Elevation of spillway crest is 451 feet above sea level.

Marion-The "Marion Reservoir", owned by the Marion Water Company, is located on a branch of Crab Orchard Creek in Section 2, T. 10 S., R. 2 E. This reservoir furnishes the water supply for the city. It has, when full, a surface area of 110 acres, an estimated storage of 400 million gallons, and a drainage basin area of 4,150 acres. Elevation of spillway crest is 441 feet above sea level.

Marion-At the Pumping Station in the City of Marion is a small reservoir having, when full, a surface area of 3 acres and an esti-

mated storage of about 5,000,000 gallons. This is kept full from the larger reservoir south of the City.

Marion-The "C. & E. I. Reservoir", owned by the Chicago and Eastern Illinois Railway, is located in Section 12, T. 9 S., R. 2 E. This reservoir furnishes water at this point for locomotive and other railroad uses. It has, when full, a surface area of 7.9 acres, an estimated storage of 18.5 million gallons, and a watershed area of 300 acres.

Marion-The "Marion Country Club Lake" is located in the S.W. 1/4 of Section 13, T. 10 S., R. 2 E. on a branch of the South Fork of the Saline River. Spillway crest is at elevation 476 feet above sea level. When full, this reservoir has a pool area of 67 acres, an estimated storage of 220,000,000 gallons, and a watershed area of 280 acres.

Marion-The "Williamson County Golf Club" has a small lake in Section 22, T. 9 S., R. 2 E. It is used for recreational purposes and has, when full, a pool area of 15 acres, an estimated storage of 19,000,000 gallons, and a watershed area of 215 acres.

PART III

POSSIBLE RESERVOIR SITES

BY W. D. GERBER

The tabulation of possible reservoir sites here presented is the result of an office study of all available maps.

No field inspections were made except in a few instances where a surface water supply was contemplated by some municipality during the period the study was in progress.

In general, the tabulation covers those areas of the State that have been topographically surveyed and mapped.

Because of the relatively small horizontal scale of these maps, generally about one inch per mile, and the contour interval of 10 and 20 feet, it was not practical to delineate reservoir sites with pool areas of less than 20 acres, nor to suggest spillway elevations intermediate of the contours shown. Because of these conditions, no attempt was made to balance the storage against the probable annual yield of the drainage area.

Wherever possible, the pool area and the watershed area were measured by the use of a planimeter, and it is felt that these areas are reasonably correct. The figures on storage are approximate only, but are generally less than likely would be found from a careful topographical survey.

The purpose of this study should serve to point out that a relatively large number of reservoir sites is available in the State, to point out their location, and to indicate, within reasonable limits, the sizes of such reservoirs. The number of possible sites for reservoirs having areas between one and twenty acres is probably several times the number here listed.

ADAMS COUNTY

That portion of Adams County which has been topographically surveyed indicates a rather rugged terrain with many opportunities for reservoirs of all sizes.

There are no municipalities in the surveyed area of sufficient size to warrant the construction of reservoirs for raw water supplies. Hence, any artificial lakes that might be constructed, within the area studied, would be for flood control, recreation, and irrigation.

Fishhook Creek-This stream has possibilities for development within limits of the available water from the rather small drainage area. The valley walls would permit a dam with spillway at elevation

660 feet, but such a height likely would be of little use unless the valley is subject to storms of heavy precipitation and high runoff. However, a dam constructed across the valley of this stream in the S.W. 1/4 of Section 35, T. 2 S., R. 5 W., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 70 feet, a pool area of 1090 acres, a storage of approximately 25,430 acre feet, and a watershed area of 26.6 square miles.

Branch of Hadley Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 33, T. 3 S., R. 5 W., with spillway at elevation 700 feet, would create a small reservoir having a depth at the dam of 40 feet, a pool area of 120 acres, a storage of approximately 1,600 acre feet, and a watershed area of 4.0 square miles. The topography would support an increase in elevation of the spillway if desired.

North Fork of Hadley Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 31, T. 3 S., R. 5 W., with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 170 acres, a storage of approximately 2,270 acre feet, and a watershed area of 3.2 square miles. The topography would permit an increase in spillway elevation.

Beebe Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 34, T. 3 S., R. 6 W., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 48 feet, a pool area of 470 acres, a storage of approximately 7,520 acre feet, and a watershed area of 7.6 square miles. The topography would permit an increase in spillway elevation.

McCraney Creek, Site 1-A dam constructed across the valley of this stream on the south line of Section 30, T. 3 S., R. 6 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 68 feet, a pool area of 1,490 acres, a storage of 33,700 acre feet, and a watershed area of 37 square miles.

McCraney Creek, Site 2-A dam constructed across the valley of this stream on the north line of Section 4, T. 3 S., R. 6 W., with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 920 acres, a storage of approximately 13,800 acre feet, and a watershed area of 11.4 square miles.

Pigeon Creek, Site 1-A dam constructed across the valley of this stream on the south line of Section 33, T. 3 S., R. 7 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 100 feet, a pool area of 1,830 acres, a storage of approximately 61,000 acre feet, and a watershed area of 27.4 square miles.

Pigeon Creek, Site 2-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 9, T. 3 S., R. 7 W., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 320 acres, a storage of 4,270 acre feet, and a watershed of 9.9 square miles.

Mill Creek, Site 1-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 31, T. 2 S., R. 8 W., with spillway at

elevation 560 feet, would create a reservoir having a depth at the dam of 75 feet, a pool area of 3,270 acres, a storage of approximately 81,750 acre feet, and a watershed area of 103.4 square miles.

Mill Creek, Site 2-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 11, T. 2 S., R. 8 W., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 70 feet, a pool area of 1,380 acres, a storage of 32,200 acre feet, and a watershed area of 31.4 square miles.

South Fork of Mill Creek, Site 1-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 27, T. 2 S., R. 8 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 72 feet, a pool area of 830 acres, a storage of approximately 19,920 acre feet, and a watershed area of 50.6 square miles.

South Fork of Mill Creek, Site 2-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 19, T. 2 S., R. 7 W., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 950 acres, a storage of approximately 15,830 acre feet, and a watershed of 40.9 square miles.

Opportunities exist for many small reservoirs on the numerous branches of this stream system. The four reservoirs suggested on the Mill Creek System were discussed as separate projects without regard to each other.

McKee Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 6, T. 2 S., R. 5 W., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 4,090 acres, a storage of approximately 81,800 acre feet, and a watershed area of 102 square miles.

Walnut Fork of McKee Creek-A dam constructed across the valley of this stream on the south line of Section 32, T. 1 S., R. 5 W., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,580 acres, a storage of 31,600 acre feet, and a watershed area of 30 square miles.

Sites exist for many small reservoirs on the numerous branches of McKee Creek and its tributaries.

No doubt there are sites for good reservoirs on Rock Creek above Highway 36 and on Bear Creek and its tributaries above Highway 96, but the lack of topographical maps prohibits a study of these sites.

ALEXANDER COUNTY

The upland portion of Alexander County is quite rugged and numerous opportunities are presented, in so far as topography is concerned, to develop reservoirs. However, because of the ruggedness of these uplands, the roads have been located in the valleys of the streams, also many of the farm lands and farm homes are within these same valleys. The cost of development of many otherwise desirable sites is regarded as prohibitive.

Cooper Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 6, T. 14 S., R. 1 W., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of about 65 feet, a pool area of about 1,070 acres, a storage of approximately 23,180 acre feet, and a watershed area of 7.9 square miles.

Happy Hollow-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 1, T. 14 S., R. 3 W., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of 95 feet, a pool area of 150 acres, a storage of approximately 4,650 acre feet, and a watershed area of 1.0 square miles. The topography would permit an increase in spillway elevation.

Topographically reservoir sites of considerable capacity are possible on: Sexton Creek, Miller Creek, Sandy Creek, Ambeen Branch, Wolf Creek, and Pigeon Roost Creek.

BOND COUNTY

The only topographical maps available for Bond County are, a small map, known generally as the Rolfe map, on a scale of 1/2 inch per mile, and the U. S. G. S. map of Shoal Creek. Therefore, the tabulation of reservoirs for this county cannot be presented with the same assurance possible when good topographical maps are available.

Locust Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 34, T. 4 N., R. 4 W., with spillway at elevation 485 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of around 2,330 acres, a storage of approximately 19,420 acre feet, and a watershed of some 22.1 square miles.

Shoal Creek-On account of the highway crossing the valley east of Baden Baden and the Pennsylvania Railroad crossing the valley some three miles north, it was concluded that a dam on this stream should be upstream of these improvements. Hence, a dam site was selected near the center of Section 35, T. 5 N., R. 4 W. A dam constructed across the valley of Shoal Creek at this point, with spillway at elevation 510 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of around 5,120 acres, a storage of approximately 76,800 acre feet, and a watershed area of some 474 square miles.

East Fork of Shoal Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 36, T. 5 N., R. 4 W., with spillway at elevation 510 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of around 3,650 acres, a storage of approximately 54,750 acre feet, and a watershed area of 156 square miles. A number of smaller reservoirs appear to be possible on the tributaries of this stream system.

Beaver Creek-A dam constructed across the valley of this stream in the west 1/2 of Section 26, T. 4 N., R. 3 W., with spillway at elevation 490 feet, would create a reservoir having a depth at the dam of 21

feet, a pool area of around 1,280 acres, a storage of approximately 8,960 acre feet, and a watershed area of 42.2 square miles.

There appear to be opportunities for small reservoirs on the head waters of the various branches of Hurricane Creek.

BOONE COUNTY

Beaver Creek-A dam constructed across the valley of this stream on the south line of the S.E. 1/4 of Section 17, T. 44 N., R. 3 E., 3rd P. M., with spillway at elevation 800 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 1,030 acres, a storage of approximately 13,730 acre feet, and a watershed of 68.2 square miles.

On account of the long sloping and gently rolling character of the land surface, the opportunities for even small farm reservoirs are scarce.

BROWN COUNTY

The topographical relief in Brown County varies from rolling to rugged. The rougher sections are along the Illinois River and the valleys of McKee and Crooked Creeks. The systems of these latter streams furnish most of the drainage facilities for the County. Topographically there are many opportunities for the development of reservoirs or artificial lakes both large and small.

Shelby Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 24, T. 1 N., R. 3 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 57 feet, a pool area of 550 acres, a storage of approximately 10,450 acre feet, and a watershed area of 20.1 square miles. The topography would permit an increase in elevation of the spillway.

West Creek-A dam constructed across the valley of this stream near the center of Section 30, T. 1 N., R. 2 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 600 acres, a storage of approximately 16,000 acre feet, and a watershed area of 14.3 square miles. The topography would permit an increase in spillway elevation.

Crooked Creek-This stream is the boundary line between Brown and Schuyler Counties and therefore a reservoir on it is as much in one county as the other; however, for convenience it is listed with other Brown County possibilities. Because of the Village of Ripley, it was deemed best to locate the dam upstream from the Village in the N.W. 1/4 of Section 33, T. 1 N., R. 2 W. A dam constructed at this point, with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of about 36 feet, a pool area of 9,050 acres, a storage of approximately 108,600 acre feet, and a watershed of 1,220 square miles.

Logan Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 3, T. 1 S., R. 2 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 81

feet, a pool area of 450 acres, a storage of approximately 12,150 acre feet, and a watershed area of 19.1 square miles.

Little Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 1, T. 2 S., R. 2 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 470 acres, a storage of approximately 7,050 acre feet, and a watershed area of 13.2 square miles. The topography will permit an increase in spillway elevation.

Camp Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 15, T. 2 S., R. 2 W., with spillway elevation at 500 feet, would create a reservoir having a depth at the dam of 51 feet, a pool area of 370 acres, a storage of approximately 6,290 acre feet, and a watershed area of 17.5 square miles. The topography would permit an increase in elevation of the spillway.

Branch Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 36, T. 2 S., R. 3 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 150 acres, a storage of approximately 2,000 acre feet, and a watershed area of 5.7 square miles.

McKee Creek, Lower Site-A dam constructed across the valley of this stream in the vicinity of Varder Bridge in the N.W. 1/4 of Section 31, T. 2 S., R. 2 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 54 feet, a pool area of 3,630 acres, a storage of approximately 65,340 acre feet, and a watershed area of 280 square miles.

Dry Fork, Site 1-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 24, T. 2 S., R. 4 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 550 acres, a storage of approximately 14,650 acre feet, and a watershed area of 31.9 square miles.

Dry Fork, Site 2-A dam constructed across the valley of this stream near the south line of Section 30, T. 1 S., R. 3 W., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 720 acres, a storage of approximately 12,000 acre feet, and a watershed area of 16.1 square miles.

Branch of Dry Fork-A dam constructed across the valley of a small branch of Dry Fork in the S.E. 1/4 of Section 30, T. 1 S., R. 3 W., with spillway at elevation 640 feet, would create a small reservoir having a depth at the dam of about 27 feet, a pool area of 160 acres, a storage of approximately 1,440 acre feet, and a watershed area of 5.7 square miles.

McKee Creek, Wilson Ford Site-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 4, T. 3 S., R. 4 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 72 feet, a pool area of 3,570 acres, a storage of approximately 85,680 acre feet, and a watershed area of 198.6 square miles. The dam structure at this site would be largely in Pike County, but only a very small part of the lake would be in that county, hence it has been listed as a Brown County project.

Little Missouri Creek-A dam constructed across the valley of this stream near the N.W. corner of the N.E. 1/4 of Section 17, T. 2 S., R. 4 W., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of about 40 feet, a pool area of 920 acres, a storage of approximately 12,270 acre feet, and a watershed area of 23.8 square miles.

Many opportunities are afforded for additional reservoirs of various sizes on the numerous tributaries of the McKee Branch Creek System, the Crooked Creek System, and the tributaries direct to the Illinois River. Alternate locations for dams are available on practically all streams listed, particularly is this true of McKee Creek. An increase in elevation of the spillways is also generally possible.

BUREAU COUNTY

Brush Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of the N.W. 1/4 of Section 28, T. 16 N., R. 10 E., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 75 feet, a pool area of 460 acres, a storage of approximately 11,500 acre feet, and a watershed area of about 58 square miles.

East Bureau Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 30, T. 16 N., R. 10 E., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 90 feet, a pool area of 890 acres, a storage of approximately 26,700 acre feet, and a watershed area of some 54.5 square miles.

Branch of Bureau Creek-A dam constructed across the valley of this small stream in the S.W. 1/4 of Section 36, T. 16 N., R. 9 E., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 90 feet, a pool area of 120 acres, a storage of approximately 3,600 acre feet, and a watershed area of 3.7 square miles.

Branch of Bureau Creek-This valley was formerly occupied by the tracks of the Illinois Valley Electric Railroad, but since this line has been abandoned the valley may be used for reservoir purposes. A dam constructed across the valley near the south line of the N.W. 1/4 of Section 1, T. 15 N., R. 9 E., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 210 acres, a storage of approximately 5,600 acre feet, and a watershed area of 5.0 square miles. The topography will permit an increase in spillway elevation.

Branch of Bureau Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 2, T. 15 N., R. 9 E., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 100 acres, a storage of approximately 2,000 acre feet, and a watershed area of 2.6 square miles.

Branch of Bureau Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 24, T. 15 N., R. 9 E., with spillway at elevation 560 feet, would create a reservoir having a depth

at the dam of 80 feet, a pool area of 150 acres, a storage of approximately 4,000 acre feet, and a watershed area of 2.5 square miles.

Plow Hollow-A dam constructed across the valley of this stream in the S.W. $\frac{1}{4}$ of Section 17, T. 15 N., R. 9 E., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 210 acres, a storage of approximately 4,200 acre feet, and a watershed area of 14 square miles.

Bureau Creek-A dam constructed across the valley of this stream near the S.W. corner of the N.W. $\frac{1}{4}$ of Section 31, T. 16 N., R. 9 E., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 70 feet, a pool area of 2,010 acres, a storage of approximately 46,900 acre feet, and a watershed area of 184 square miles.

West Bureau Creek-A dam constructed across the valley of this stream in the S.E. $\frac{1}{4}$ of Section 16, T. 16 N., R. 8 E., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 59 feet, a pool area of 1,030 acres, a storage of approximately 20,260 acre feet, and a watershed area of 80 square miles.

Mud Creek-A dam constructed across the valley of this stream at the west line of the S.W. $\frac{1}{4}$ of Section 7, T. 15 N., R. 6 E., with spillway at elevation 750 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 330 acres, a storage of approximately 3,300 acre feet, and a watershed of 6.9 square miles.

Opportunities for many small ponds are available on the short tributaries to Bureau Creek between Tiskilwa and Wyanet and on the upper reaches of the west tributaries to West Bureau Creek. Numerous sites for small ponds are also available in the rough country in the vicinity of Neponset.

CALHOUN COUNTY

The topography of Calhoun County is rugged. The elevation of the bottoms of the Illinois and Mississippi Rivers varies from 418 to 430 feet, while the backbone of the ridge reaches 810 feet or better. Thus the slopes of all streams (hollows) are steep, and the runoff is rapid.

Because of the ruggedness of the surface practically every hollow of consequence is occupied by a road. Hence, reservoirs would be rather out of the question.

However, since highways can be relocated, a number of the most promising reservoir sites are listed even though they may contain a county highway.

East Panther Creek-A dam constructed across the valley of this stream in the S.E. $\frac{1}{4}$ of Section 9, T. 8 S., R. 2 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 70 feet, a pool area of 820 acres, a storage of approximately 19,130 acre feet, and a watershed of 14.6 square miles.

Pleasant Dale Valley-A dam constructed across the valley of this stream about on the west line of Section 16, T. 8 S., R. 2 W.,

with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 54 feet, a pool area of 120 acres, a storage of approximately 2,160 acre feet, and a watershed of 2.6 square miles.

S.W. Fork of East Panther Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 18, T. 8 S., R. 2 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 70 feet, a pool area of 180 acres, a storage of approximately 4,200 acre feet, and a watershed area of 3.7 square miles.

West Fork, East Panther Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 7, T. 8 S., R. 2 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 100 acres, a storage of approximately 2,000 acre feet, and a watershed area of 1.4 square miles.

N.W. Fork of East Panther Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 7, T. 8 S., R. 2 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 150 acres, a storage of approximately 4,000 acre feet, and a watershed area of 2.8 square miles.

Woods Branch-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 27, T. 8 S., R. 2 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 30 acres, a storage of approximately 600 acre feet, and a watershed area of 0.9 square miles.

Silver Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 34, T. 8 S., R. 2 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 65 feet, a pool area of 260 acres, a storage of approximately 5,630 acre feet, and a watershed area of 6.0 square miles.

Crawford Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 11, T. 9 S., R. 2 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 70 feet, a pool area of 380 acres, a storage of approximately 8,870 acre feet, and a watershed of 5.6 square miles.

Crater Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 22, T. 9 S., R. 2 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 70 feet, a pool area of 170 acres, a storage of approximately 3,970 acre feet, and a watershed area of 2.8 square miles.

South Prong-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 33, T. 9 S., R. 2 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 120 acres, a storage of approximately 2,400 acre feet, and a watershed area of 1.8 square miles.

DeGerlia Hollow-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 10, T. 10 S., R. 2 W., with spillway at

elevation 540 feet, would create a reservoir having a depth at the dam of 75 feet, a pool area of 220 acres, a storage of approximately 5,500 acre feet, and a watershed area of 2.2 square miles.

French Hollow-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 15, T. 10 S., R. 2 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 50 acres, a storage of approximately 1,000 acre feet, and a watershed area of 0.8 square miles.

From the City of Hardin south, the valleys become very abrupt. Reservoir sites are available on the many short streams discharging into the Illinois River. Although the ponds formed would necessarily have a small surface area, they would have a relatively large capacity. On account of the large number of possible sites, no attempt has been made to list them.

Along the Mississippi River shore, from the mouth of the Illinois River to Hamburg, there are many opportunities for small reservoir sites. On account of the steepness of the valley floor, such reservoirs would have a small surface area but a relatively high storage capacity.

North Prong, Irish Hollow-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 25, T. 9 S., R. 3 W., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 85 feet, a pool area of 180 acres, a storage of approximately 5,100 acre feet, and a watershed area of 1.8 square miles.

Pancake Hollow-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 23, T. 9 S., R. 3 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 75 feet, a pool area of 170 acres, a storage of approximately 4,250 acre feet, and a watershed area of 3.3 square miles.

Fox Creek-A dam constructed across the valley of this stream near the S.W. corner of the N.E. 1/4 of Section 2, T. 9 S., R. 3 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 460 acres, a storage of approximately 12,270 acre feet, and a watershed area of 5.3 square miles.

West PantherCreek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 33, T. 8 S., R. 3 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of about 87 feet, a pool area of 290 acres, a storage of approximately 8,410 acrefeet, and a watershed area of 4.8 square miles.

Bellevue Hollow-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 17 and the N.E. 1/4 of Section 20, T. 8 S., R. 3 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 75 feet, a pool area of 270 acres, a storage of approximately 6,750 acre feet, and a watershed area of 7.3 square miles.

Wildcat Hollow-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 7, T. 8 S., R. 3 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the

clam of 84 feet, a pool area of 190 acres, a storage of approximately 5,320 acre feet, and a watershed area of 3.3 square miles.

Howell Hollow-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 1, T. 8 S., R. 4 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of about 63 feet, a pool area of 230 acres, a storage of approximately 4,830 acre feet, and a watershed of 4.5 square miles.

The alluvial deposits in both the Illinois and Mississippi River valleys are available for well water supplies for municipalities, industries, and individuals.

The rugged topography would permit many small farm reservoirs.

CARROLL COUNTY

The drainage basin of Plum River is quite rugged and sites for small farm reservoirs are numerous on its tributaries. Sites for larger reservoirs are found on Plum River, Straddle Creek, and to a limited extent on Carroll Creek.

Plum River-A dam constructed across the valley of this stream near the west line of Section 31, T. 25 N., R. 4 E., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 72 feet, a pool area of 4,720 acres, a storage of approximately 113,280 acre feet, and a watershed area of 25.7 square miles.

Straddle Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 30, T. 25 N., R. 4 E., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 54 feet, a pool area of 720 acres, a storage of approximately 12,960 acre feet, and a watershed of 32.4 square miles. The topography would permit an increase in spillway elevation.

CASS COUNTY

The general topographical relief is quite rugged throughout the county and many reservoir sites are available. The tabulation lists only the more outstanding reservoir opportunities.

Opposum Hollow-A dam constructed across the valley of this stream in the S.E. 1/4 of the S.E. 1/4 of Section 29, T. 19 N., R. 8 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 90 acres, a storage of approximately 1,200 acre feet, and a watershed area of 1.6 square miles.

Middle Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 32, T. 19 N., R. 8 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 48 feet, a pool area of 460 acres, a storage of approximately 7,360 acre feet, and a watershed area of 12.6 square miles.

Miller Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 36, T. 19 N., R. 9 W., with spillway at eleva-

tion 540 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 180 acres, a storage of approximately 2,700 acre feet, and a watershed area of 4.6 square miles.

Panther Creek-A dam constructed across the valley of this stream near the center of Section 9, T. 18 N., R. 9 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 57 feet, a pool area of 1,090 acres, a storage of approximately 20,710 acre feet, and a watershed area of 46.7 square miles.

A site for a dam on this stream appears to be available near the east line of Section 6, T. 18 N., R. 9 W., which is just outside the limits of the City of Chandlerville, but a highway follows the valley and hence the upstream site was selected.

Jobs Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 10, T. 18 N., R. 10 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 370 acres, a storage of approximately 4,930 acre feet, and a watershed area of 28.2 square miles.

A reservoir, known as the Virginia Reservoir, has been constructed on the headwaters of a branch of Jobs Creek to furnish the raw water supply for the City of Virginia.

Indian Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 17, T. 18 N., R. 10 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 150 acres, a storage of approximately 2,000 acre feet, and a watershed area of 7.4 square miles.

Creek-A dam constructed across the valley of a creek in the N.E. 1/4 of Section 15, T. 18 N., R. 11 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 39 feet, a pool area of 60 acres, a storage of approximately 780 acre feet, and a watershed area of 2.2 square miles.

Clear Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 3, T. 17 N., R. 11 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 620 acres, a storage of approximately 12,400 acre feet, and a watershed of 16.2 square miles.

Creek-A dam constructed across the valley of a creek in the S.W. 1/4 of Section 9, T. 17 N., R. 11 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 100 acres, a storage of approximately 1,330 acre feet, and a watershed area of 2.3 square miles.

Prairie Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 20, T. 17 N., R. 11 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 57 feet, a pool area of 900 acres, a storage of approximately 17,100 acre feet, and a watershed area of 25.9 square miles.

Attractive sites for reservoirs are also available on the upper portions of the Jobs Creek and Panther Creek systems.

CHAMPAIGN COUNTY

Champaign County has a gently rolling terrain. The stream valleys, in the main, are wide and shallow and afford but little opportunity for the development of reservoirs.

The present water supply of the cities of Champaign and Urbana, as well as that of the University of Illinois, is obtained from wells penetrating sand and gravel beds at depths of as much as 240 feet, though a majority of the wells are 160 feet, or less, in depth.

This well water is quite hard and for many years the citizens of the two cities have talked of a softer water from a surface source. The only opportunity for a reservoir supply near at hand is on the Sangamon River in the vicinity of Mahomet. Several years ago a preliminary study of possible reservoir sites was made.

Sangamon River, Mahomet Site-A dam constructed across this stream in the N.E. 1/4 of Section 15, T. 20 N., R. 7 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of about 33 feet, a pool area of 3,142 acres, or 4.91 square miles, a storage of approximately 31,420 acre feet, and a watershed area of 350 square miles.

The water surface area is large for the storage and much evaporation would take place. The soil of the drainage basin erodes rather easily and at times of high water the stream carries a heavy silt load.

In 1934 under the authority of the Civil Works Administration, a field study and survey of reservoir possibilities on this stream in the vicinity of Mahomet were made. As a result of this work a report with maps and diagrams is available for future reference. The study apparently developed the following points:

1. The dam site given above in the N.E. 1/4 of Section 15, T. 20 N., R. 7 E., was found to present unfavorable geological conditions.

2. A dam site near the center of Section 20, T. 20 N., R. 7 E., was better from a geological viewpoint.

A dam at the site in Section 20, with spillway at an elevation of 683 feet, would create a reservoir having a depth at the dam of about 21 feet, a pool area of about 930 acres, a storage of approximately 6,500 acre feet, and a watershed area of 360 square miles.

CHRISTIAN COUNTY

Six topographical quadrangles are required to cover completely the entire area of Christian County, but only one (the Taylorville Quadrangle) is available.

Buckhart Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 21, T. 15 N., R. 3 W., with spillway at elevation 570 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 1,230 acres, a storage of approximately 12,300 acre feet, and a watershed area of 85 square miles.

Clear Creek, Site 1-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 18, T. 14 N., R. 3 W., and the S.E. 1/4 of Section 13, T. 14 N., R. 4 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 24 feet, a pool area of 690 acres, a storage of approximately 5,520 acre feet, and a watershed area of 76 square miles.

The topography would permit an increase in elevation of spillway of at least 10 feet.

Clear Creek, Site 2-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 9, T. 13 N., R. 3 W., with spillway at elevation 590 feet, would create a reservoir having a depth at the dam of 18 feet, a pool area of 280 acres, a storage of approximately 1,680 acre feet, and a watershed area of 26 square miles.

A reservoir at this location would serve as a source of raw water for the communities of Humphrey, Bulpitt, Kincaid, and Jeisyville.

Sharpsburg Creek-There may be a local name for this stream, but it does not appear in the topographical map. Since the Village of Sharpsburg is close by, the name is taken for convenience.

A dam constructed across the valley of this stream in the south part of Section 35, T. 14 N., R. 3 W., with spillway at elevation 570 feet, would create a reservoir having a depth at the dam of 24 feet, a pool area of 230 acres, a storage of approximately 1,840 acre feet, and a watershed of 33.2 square miles.

The topography would permit an increase in elevation of the spillway of at least 10 feet. The track of the B. & O. R. R. likely would be the controlling factor.

No Name Creek-A dam constructed across the valley of this small stream near the center of Section 13, T. 13 N., R. 3 W., with spillway at elevation 590 feet, would create a small reservoir having a depth at the dam of 30 feet, a pool area of 90 acres, a storage of approximately 900 acre feet, and a watershed area of 2.2 square miles.

Panther Creek, Site 1-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 30, T. 13 N., R. 2 W., with spillway at elevation 570 feet, would create a reservoir having a depth at the dam of 18 feet, a pool area of 70 acres, a storage of approximately 420 acre feet, and a watershed area of 6.4 square miles.

Panther Creek, Site 2-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 20, T. 13 N., R. 2 W., with spillway at elevation 590 feet, would create a reservoir having a depth at the dam of about 12 feet, a pool area of 50 acres, a storage of approximately 200 acre feet, and a watershed area of 2.5 square miles.

The topography would permit the spillway elevation at Site 1 to be raised to 590 feet, or sufficient to join Site 2.

Bear Creek-A dam constructed across the valley of this stream about on the east and west half section line of Section 36, T. 13 N., R. 3 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 27 feet, a pool area of 730 acres, a

storage of approximately 6,570 acre feet, and a watershed area of 91.2 square miles.

The topography apparently would permit an increase in elevation of spillway to 590 feet.

South Fork of Sangamon River-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 36, T. 13 N., R. 2 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 4,890 acres, a storage of approximately 58,680 acre feet, and a watershed area of 147 square miles.

The City of Taylorville could improve its water supply both as to quality and quantity by the development of a surface supply. The above suggestion is close enough to the City to be attractive.

CLARE COUNTY

Portions of five topographical quadrangle maps are required to cover the entire area of Clark County, but of this number only two, Marshall and Toledo quadrangle sheets, are available. Of these two the Toledo sheet is of but little avail since it covers only a narrow strip, about a mile wide, of the western edge of Clark County.

The portion of Clark County delineated on the Marshall quadrangle indicates a rather rugged terrain with numerous opportunities for reservoirs of various sizes and for various purposes. The opportunities for small reservoirs are so numerous that no attempt is made to list them. Only the more outstanding have been selected for tabulation.

Clear Creek-A dam constructed across the valley of this stream along the east line of Sections 30 and 31, T. 12 N., R. 10 W., with spillway at elevation 530 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 475 acres, a storage of approximately 5,700 acre feet, and a watershed area of 48 square miles.

The topography would permit raising the spillway to elevation 550 feet. There are also many opportunities for small farm ponds on the numerous tributaries.

Hawks Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 8, T. 11 N., R. 10 W., with spillway at elevation 510 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 256 acres, a storage of approximately 2,560 acre feet, and a watershed area of 7.3 square miles.

The topography would permit an increase in spillway elevation. The many tributaries provide opportunity for the development of small farm ponds.

Crooked Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 20, T. 11 N., R. 10 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 310 acres, a storage of approximately 4,650 acre feet, and a watershed area of 12.3 square miles.

The topography would permit an increase in elevation of the spillway. Opportunities are afforded for numerous farm ponds on the tributary branches of the main stream.

Ashmore Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 30, T. 11 N., R. 10 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 272 acres, a storage of approximately 4,080 acre feet, and a watershed area of 5.8 square miles.

The topography would permit an increase in spillway elevation. The small tributaries would provide sites for a number of small farm ponds.

Big Creek, Site 1-A dam constructed across the valley of this stream at the S.E. Corner of Section 27, T. 11 N., R. 11 W., with spillway at elevation 500 feet, would create a rather large combined reservoir on both Big and Little Creeks. The depth at the dam would be 45 feet, the pool area 1,680 acres, the storage approximately 25,200 acre feet, and the watershed area 104 square miles.

The topography would permit an increase in spillway elevation. The side tributaries would provide sites for many farm ponds.

Big Creek, Site 2-By impounding the valleys of West Fork and East Fork, a second large reservoir can be formed on Big Creek. A dam constructed across the valley of Big Creek near the S.W. Corner of the S.E. 1/4 of Section 36, T. 12 N., R. 12 W., with spillway at elevation 570 feet, would create a reservoir having a depth at the dam of 57 feet, a pool area of 1,680 acres, a storage of approximately 31,920 acre feet, and a watershed of 80 square miles.

The topography would permit an increase in spillway elevation. The many side tributaries would provide sites for farm ponds.

Additional reservoirs on the upper reaches of these two forks are also possible.

Martin Branch-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 10, T. 10 N., R. 11 W., with spillway at elevation 490 feet, would create a small reservoir having a depth at the dam of 24 feet, a pool area of 27 acres, a storage of approximately 216 acre feet, and a watershed area of 1.5 square miles.

Sugar Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 10, T. 10 N., R. 11 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 139 acres, a storage of approximately 1,390 acre feet, and a watershed area of 6.1 square miles.

The topography would permit an increase in elevation of the spillway.

Partridge Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 16, T. 10 N., R. 11 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 96 acres, a storage of 960 acre feet, and a watershed area of 3.6 square miles.

The topography would permit an increase in elevation of the spillway.

Neeley Creek-There are three hillside tributaries to Neeley Creek, each of which would lend itself to the construction of small reservoirs.

Snyder Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 31, T. 10 N., R. 11 W., with spillway at elevation

510 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 144 acres, a storage of approximately 1,440 acre feet, and a watershed area of 5.3 square miles.

The topography would permit an increase in spillway elevation.

Joe's Fork-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 35, T. 10 N., R. 12 W., with spillway at elevation 500 feet, would create a reservoir on Joe's Fork and Indian Branch. The lake would have a depth at the dam of 30 feet, a pool area of 160 acres, a storage of approximately 1,600 acre feet, and a watershed area of 14 square miles.

The topography would permit an increase in elevation of the spillway.

Mill Creek, Site 1-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 35, T. 10 N., R. 12 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of about 33 feet, a pool area of 1,900 acres, a storage of approximately 20,900 acre -feet, and a watershed area of 94 square miles.

The topography would permit an increase in elevation of the spillway. A reservoir at this location likely would be expensive as the wide bottoms are, no doubt, excellent agricultural areas.

Mill Creek, Site 2-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 28, T. 11 N., R. 12 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 416 acres, a storage of approximately 4,160 acre feet, and a watershed area of 14.7 square miles.

The topography would permit an increase in elevation of the spillway.

Tributaries of Mill Creek-Without doubt locations are available for smaller reservoirs on: Blackburn Branch, Hurricane Creek, Sandy Branch, and the West Fork of Mill Creek.

North Fork of Embarrass River-No doubt there are numerous opportunities for reservoirs on this stream and its tributaries, although the valleys appear to be less deeply cut than those in the easterly part of the county.

CLAY COUNTY

There are no topographical quadrangles of Clay County, hence, no schedule of possible reservoirs is possible. However, from other sources it appears that it might be possible to develop reservoirs as follows:

On Big Muddy Creek with a dam in the N.E. 1/4, Section 21, T. 4 N., R. 8 E.

On Little Muddy Creek with a dam near Sailor Springs

On Dismal Creek with a dam in Section 31, T. 5 N., R. 6 E.

On Beech Creek with a dam in Section 8, T. 3 N., R. 7 E.

On Crooked Creek with a dam in Section 17, T. 4 N., R. 6 E.

Small ponds appear possible on the branches of the main drainage systems and it may be possible to develop a reservoir on the Little Wabash River.

CLINTON COUNTY

In the main the surface relief of Clinton County is low and opportunities for reservoirs are few. However, the low marshy areas in the valleys of Shoal Creek and Kaskaskia River might afford opportunity to develop flood water detention basins.

Sugar Creek, Site 1-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 11, T. 1 N., R. 5 W., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 12 feet, a pool area of 780 acres, a storage of approximately 3,120 acre feet, and a watershed of 145 square miles.

It might be possible to increase the elevation of the spillway.

Sugar Creek, Site 2-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 34, and the S.W. 1/4 of Section 27, T.

N., R. 5 W., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 760 acres, a storage of approximately 5,070 acre feet, and a watershed area of 109 square miles.

An increase in elevation of the spillway appears possible.

Some other sites might be disclosed by a field inspection.

COLES COUNTY

Kaskaskia River-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 20, T. 13 N., R. 7 E., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 24 feet, a pool area of 3,760 acres, a storage of approximately 30,080 acre feet, and a watershed area of 475 square miles.

Such a reservoir would render its greatest service as a flood control project.

Embarrass River-This stream and its tributaries would provide a considerable number of reservoirs. A site appears to be available on the main stream near Copper Cave in the south half of Section 27, T. 11 N., R. 9 E. This dam site is in Cumberland County, but since the major portion of the reservoir is in Coles County, it is so listed.

A dam constructed across the valley of the river at this point, with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 3,400 acres, a storage of approximately 34,000 acre feet, and a watershed area of 890 square miles.

The topography would permit an increase in elevation of the spillway.

Another site a mile and a half upstream, near McCanns Ford, is possible.

Indian Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 10, T. 11 N., R. 9 E., with spillway at elevation 610 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 200 acres, a storage of approximately 2,400 acre feet, and a watershed area of 10 square miles.

An increase in elevation of the spillway is possible.

Kickapoo Creek, Site 1, Near Mt. Zion Church-A dam constructed across the valley of this stream in the N.E. Corner of Section 34, T. 12 N., R. 9 E., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 800 acres, a storage of approximately 8,000 acre feet, and a watershed area of 87 square miles.

The topography would permit an increase in spillway elevation.

Kickapoo Creek, Site 2, Near Unity Chapel-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 20, T. 12 N., R. 9 E., with spillway at elevation 630 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 250 acres, a storage of approximately 2,500 acre feet, and a watershed area of 30 square miles.

The topography would permit an increase in elevation of the spillway.

Rileys Creek-A dam across the valley of this stream, which is a tributary of Kickapoo Creek, in the N.E. 1/4 of Section 17, T. 12 N., R. 9 E., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 230 acres, a storage of approximately 2,760 acre feet, and a watershed area of 41 square miles.

The topography would permit an increase in spillway elevation.

Whetstone Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 19, T. 12 N., R. 10 E., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 180 acres, a storage of approximately 1,800 acre feet, and a watershed area of 130 square miles.

The topography would permit an increase in spillway elevation.

Embarrass River-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 19, T. 12 N., R. 10 E., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 2,000 acres, a storage of approximately 26,000 acre feet, and a watershed area of 730 square miles.

The topography at this point would permit an increase in spillway elevation. Such a reservoir is conveniently located to serve the City of Charleston as a raw water supply.

West Branch, Hurricane Creek-A dam constructed across the valley of this stream in the S.E. Corner of Section 16, T. 11 N., R. 10 E., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 250 acres, a storage of approximately 3,200 acre feet, and a watershed area of 9 square miles.

The topography would permit an increase in spillway elevation.

On the tributaries of Muddy Creek there are opportunities for the development of a number of small ponds of from 5 to 10 acres in surface area.

COOK COUNTY

Thorn Creek-A fair sized lake is possible near Chicago Heights and Steger on Thorn Creek. A dam constructed across the valley of this stream in the N.E. 1/4 of Section 30, T. 35 N., R. 14 E., on the line of 26th Street, Chicago Heights, with spillway at elevation 685 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 133 acres, a storage of approximately 1,100 acre feet, and a watershed area of 8.0 square miles. Such a lake could hardly be considered sufficiently large to serve as a water supply for the nearby cities. It would however make a very satisfactory body of water for recreational purposes.

A dam constructed across the outlet of a swampy area in the N.W. 1/4 of Section 31, T. 37 N., R. 12 E., and just north of 131st Street, with spillway at elevation 705 feet, would create a reservoir suitable for recreational purposes, having a depth at the dam of about 17 feet, a pool area of 204 acres, a storage of approximately 1,160 acre feet, and a watershed area of 1.1 square miles.

A dam constructed across the valley of a small unnamed water course in the N.W. 1/4 of Section 24, T. 37 N., R. 11 E., with spillway at elevation 675 feet, would create a small reservoir suitable for recreational purposes, having a depth at the dam of 25 feet, a pool area of 95 acres, a storage of approximately 790 acre feet, and a watershed area of 1.6 square miles.

A reservoir or lake suitable for recreational purposes could be created by raising the grade of the North and South road and a short section of an east and west road in Section 10, T. 37 N., R. 11 E. If the spillway were established at elevation 665 feet, the reservoir would have a depth at the dam of about 27 feet, a pool area of 117 acres, a storage of approximately 1,050 acre feet, and a watershed area of 12.8 square miles.

Tinley Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 12, T. 36 N., R. 12 E., with spillway at elevation 675 feet, would create a reservoir or lake suitable for recreational purposes, having a depth at the dam of about 28 feet, a pool area of 199 acres, a storage of approximately 1,860 acre feet, and a watershed area of 6.7 square miles.

CRAWFORD COUNTY

A strip of country ten miles wide across the south end of Crawford County is all that has been topographically mapped, therefore, the study of reservoir sites is limited.

While the eastern portion of this ten mile wide strip is sharply rolling there is only one small area lying just north of the county line and between Brushy and Honey Creeks where the relief seems to provide opportunities for reservoirs.

Local owners likely could find places for small reservoirs, but only two sites for respectable sized reservoirs seem available.

Sugar Creek-A dam constructed across the valley of this stream in the north half of Section 14, T. 5 N., R. 12 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 150 acres, a storage of approximately 1,800 acre feet, and a watershed area of 3.5 square miles.

Branch of Sugar Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 13, T. 5 N., R. 12 W., with spillway at elevation 480 feet, would create a small reservoir suitable for farm or orchard use, having a depth at the dam of 15 feet, a pool area of 100 acres, a storage of approximately 500 acre feet, and a watershed area of 1.25 square miles.

CUMBERLAND COUNTY

The Mattoon and Toledo topographical quadrangle sheets cover a considerable portion of this county. The valleys of the streams would be wider at the south line of the county and hence the opportunities for good dam sites are lessened.

Long Point Creek-The Pennsylvania Railroad and State Highway No. 40 cross the valley of this stream near the South line of the S.E. 1/4 of Section 27, T. 10 N., R. 10 E. As these two road beds and the bridges across the stream are the controlling factors in the design of a reservoir on the creek, it was deemed best to arrange the reservoir upstream of the bridges.

A dam constructed across the valley of this stream in the S.E. 1/4 of Section 27, T. 10 N., R. 10 E., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 35 feet, a pool area of 200 acres, a storage of approximately 2,300 acre feet, and a watershed area of 18 square miles.

Birch Run-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 34, T. 10 N., R. 10 E., with spillway at elevation 590 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 80 acres, a storage of approximately 670 acre feet, and a watershed area of 6 square miles. The topography would permit an increase in spillway elevation.

Range Creek-This stream is formed by the joining of Long Point Creek and Birch Run. It is quite possible that there is at least one site for a dam and reservoir on this stream below Birch Run, but the lack of topographical maps prevents a careful study of the case. It appears that a site for a dam may be available near the Embarrass River, and that a depth of water of from 35 to 40 feet might be obtained.

Lost Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 25 and the N.E. 1/4 of Section 36, T. 10 N., R. 9 E., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 180 acres, a storage of approximately 1,800 acre feet, and a watershed area of 15 square miles. The topography would permit an increase in spillway elevation. The watershed area likely would support a larger storage if desired.

Hurricane Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 24, T. 10 N., R. 9 E., with spillway at elevation 580 feet, would create a relatively large reservoir having a depth at the dam of 50 feet, a pool area of 1,240 acres, a storage of approximately 20,670 acre feet, and a watershed area of 55 square miles.

This reservoir when combined with the smaller one on West Branch, listed under Coles County, would provide considerable storage for flood control of the river proper.

Cottonwood Creek-A dam constructed across the valley of this stream at the south line of the S.W. 1/4 of Section 29, T. 10 N., R. 9 E., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 700 acres, a storage of approximately 7,000 acre feet, and a watershed area of 20 square miles. A reservoir at this point would provide flood control as well as a raw water supply for the City of Toledo.

Branch of Cottonwood Creek-A dam constructed across the valley of this stream near the center of Section 32, T. 10 N., R. 9 E., with spillway at elevation 570 feet, would create a small reservoir having a depth at the dam of 20 feet, a pool area of 85 acres, a storage of approximately 570 acre feet, and a watershed area of 3.85 square miles.

Muddy Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 4, T. 9 N., R. 8 E., with spillway at elevation 570 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 850 acres, a storage of approximately 11,330 acre feet, and a watershed area of 62 square miles. The topography would permit an increase in elevation of the spillway. The upper tributaries would permit the development of smaller reservoirs up to perhaps 30 to 40 acres in area.

Mule Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 6, T. 9 N., R. 8 E., with spillway at elevation 590 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 700 acres, a storage of approximately 11,670 acre feet, and a watershed area of 37.7 square miles. The topography would permit an increase in the elevation of the spillway.

Sites for a number of small ponds of from 5 to 10 acres are available on the tributaries of this drainage system, however most of these would be in Coles County.

Otter Branch-There likely is an acceptable site for a reservoir in this stream south of the limits of the Mattoon quadrangle sheet.

DEKALB COUNTY

The topography of DeKalb County is of a gently rolling character. The stream valleys are wide and much has been done to facilitate farm drainage. While there are a few opportunities for small reservoirs, particularly south and southeast of DeKalb, the opportunity to develop reservoirs is so lacking that no attempt has been made to locate and list any.

DEWITT COUNTY

There are no topographical maps for any portion of this County, therefore, an office study of possible reservoir sites could not be made.

In general the county is rather flat with but little relief and such reservoirs as might be possible would be small.

DOUGLAS COUNTY

There are no topographical maps of any portion of this county, therefore, an office study of possible reservoir sites could not be made.

In general the relief is low and any reservoirs that might be considered as possible would be small.

DUPAGE COUNTY

Because of its proximity to Chicago, DuPage County has become highly developed. Many of the former swamp and marsh areas have been drained and the county is netted with Railroads and Highways; thus any program of reservoir development would encounter heavy opposition on all sides.

Topographically the stream valleys do not lend themselves readily to reservoir development. In most cases the valley walls are of a gentle sloping order and dams would be too long for an economical development.

Since stream control and water supply are not problems of the area, any reservoir constructed would be used for recreational purposes. One small reservoir is possible on the upper portion of the West Branch of the DuPage river.

West Branch DuPage River-A dam constructed across this valley in the S.E. Corner of Section 10, T. 40 N., R. 9 E., with spillway at elevation 770 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 940 acres, a storage of approximately 9,400 acre feet, and a watershed area of 22.6 square miles.

The area which would be flooded by such a development was at one time almost entirely marsh land. In fact a considerable portion of the area within the watershed was of a marshy character.

East Branch DuPage River-The valley of the East Branch of the DuPage River would, topographically, afford several reservoir sites. But this valley is highly developed agriculturally and in addition is crossed by many railroad and highway bridges at elevations too low to permit reservoir developments of merit.

EDGAR COUNTY

There are no topographical maps of this County with the exception of a narrow strip, from one to two miles wide along its south line, shown on the Marshall Quadrangle.

This narrow strip is not sufficient to permit a study of possible sites for dams or to make inspection estimates of storage, etc. But it does

appear that sites may likely be found on both the west and east fork of Big Creek and on the upper tributaries of Clear Creek and Sugar Creek. The south portion of the County has stronger relief than the north **part.**

EDWARDS COUNTY

All of the topographical mapping available for Edwards County is a comparatively narrow strip adjacent to the eastern boundary line of the County.

The relief is gentle and little opportunity is offered for dam sites.

EFFINGHAM COUNTY

It is not possible to make an office study of possible reservoir sites in Effingham County for the reason that the County has not been topographically surveyed.

It is known, of course, that there is some relief to the terrain and therefore it is assumed that there are reservoir sites in the County.

The City of Effingham secures its raw water from a stream and a small reservoir.

FAYETTE COUNTY

The only maps showing topography in this County are those showing the relief along the valley of the Kaskaskia River. These are narrow strips of topography and do not afford much data for dam locations except across the main valley.

Within the limits of the County the valley of the Kaskaskia is too generally used for farming to permit its use as an artificial lake or reservoir. But there are tributary streams that might be confined to form flood water retention basins.

One such stream is Hurricane Creek, while others are Richland Creek, Hickory Creek, Camp Creek, Big Creek, Mitchell Creek, and Fanny Branch.

Should a dam ever be considered on the river itself, a fairly acceptable site is indicated in the S.W. 1/4 of Section 28, T. 9 N., R. 3 E. Here the valley is less than a half mile wide and the valley walls would permit a depth at the dam of 60 feet or a spillway elevation of 575 feet.

FORD COUNTY

The topographical relief is too low to afford any satisfactory reservoir sites in this County.

FRANKLIN COUNTY

Franklin County lies in the watershed of the Big Muddy River and such reservoirs as are listed have been considered in a report on the Big Muddy River prepared in 1934 under the direction of Professor W. C. Huntington of the University of Illinois.

Ewing Creek-A dam constructed across the valley of this stream in the west 1/2 of Section 5, T. 7 S., R. 4 E., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of

30 feet, a pool area of 1,370 acres, a storage of approximately 13,700 acre feet, and a watershed area of 21.5 square miles. The main function of a reservoir at this location likely would be for flood control. However, some recreational advantages might be obtained if a certain portion of the storage was retained for that purpose. There would be high evaporation from such a reservoir since the surface area is large in terms of the storage.

Bethel Church Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 12, T. 7 S., R. 2 E., with spillway at elevation of 400 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 300 acres, a storage of approximately 2,000 acre feet, and a watershed area of 2 square miles. The drainage area is rather small for a pool of this size. However, when once filled, and with no other extraction except evaporation, it is likely that the reservoir might be maintained in fairly satisfactory shape.

White Oak Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 4, T. 5 S., R. 1 E., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of 18 feet, a pool area of 120 acres, a storage of approximately 700 acre feet, and a watershed of 5 square miles.

Pond Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 25, T. 7 S., R. 2 E., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of about 15 feet, a pool area of 1,020 acres, a storage of approximately 5,100 acre feet, and a watershed area of 34.9 square miles.

FULTON COUNTY

The surface of this county is deeply eroded and there are many opportunities for reservoirs to serve all purposes.

The northwestern portion of the county is drained by the Spoon River and its tributaries. In the main, the channel of this stream is very crooked and wanders back and forth across a wide bottom. Because of the rugged topography, stream run-off is heavily concentrated within a short period of time, hence flood conditions are frequent. A program of construction for flood control would be profitable.

Since there are a number of villages along this stream and since the valley is crossed by several railroad lines, it does not seem desirable to place any regulation works on the stream itself. But a program to regulate the discharge of the tributaries, to the point where the main stream may carry the discharge without distress, would be profitable.

Cedar Creek-Cedar Creek enters Fulton County at its northwest corner. It is soon joined by Swan Creek which enters the county at the west line (3rd P. M.) of Section 18, T. 8 N., R. 1 E. The course of Cedar Creek eastward to its junction with Spoon River in Section 4, T. 8 N., R. 2 E. is very crooked. The valley is wide with a gentle gradient. Any reservoir constructed on the stream likely would be for the sole purpose of flood control and regulation of the discharge of Spoon River.

The Avon topographical quadrangle indicates that a dam site may be possible in Section 5, T. 8 N., R. 2 E.

This valley floor has an average elevation at the proposed dam site of about 530 feet with a minimum elevation in the stream channel of about 515 feet. The valley walls are sufficiently high to permit impounding water to at least elevation 570 feet and perhaps to elevation 580 feet. This latter figure depends upon the elevation of the tracks of the Chicago, Burlington and Quincy Railroad which crosses the valley in the west part of Section 8, T. 8 N., R. 1 E. The topographical map seems to indicate that the track is above elevation 580 feet.

The watershed area of Cedar Creek above the proposed dam site is about 290 square miles. The water surface at elevation 570 feet is about 3,900 acres and the storage is approximately 62,400 acre feet. This reservoir likely would provide complete control for the Creek.

Swegle Creek-This is a relatively small stream and watershed. Likely the most beneficial use of a reservoir on this stream would be for flood control.

It appears that a feasible site for a dam may be found near the center of Section 10, T. 8 N., R. 2 E. The topography will permit storage to elevation 560 feet with a depth of about 30 feet. Pool area is about 220 acres with a storage of approximately 2,300 acre feet. The watershed is about 15.5 square miles.

Coal Creek-It appears that a dam site is available on this stream in the N.W. 1/4 of Section 27, T. 8 N., R. 2 E. The valley walls will permit a pool elevation of 580 feet and a depth at the dam of about 57 feet. The surface area at elevation 580 is about 580 acres, thus giving a storage of approximately 11,000 acre feet. The watershed area is about 30 square miles.

Aylesworth Branch-A small reservoir could be created on Aylesworth Branch by the construction of a dam in the S.E. 1/4 of Section 11, T. 7 N., R. 1 E. The watershed of this stream is about 11 square miles. With spillway crest at elevation 540 feet, there would be developed a reservoir having a pool area of 80 acres, a storage of approximately 1,040 acre feet. The valley walls will permit an increase of spillway height to 560 feet or even 580 feet should such an increase be desired.

Shaw Creek, North Branch-See description for reservoir for Bushnell.

Copperas Creek-West Branch and Middle Branch. See Canton, Fulton County, reports.

Copperas Creek, Main Stream-This stream has a wide-flung system of tributaries, nearly all of which could be controlled under a program of flood prevention.

A site for a dam across the main valley appears feasible just above the village of Banner in the N.W. 1/4 of Section 11, T. 6 N., R. 5 E.

The efficiency of a dam at this point depends upon two factors:

- (a) the damage done to the lands in the Illinois River bottoms and
- (b) the amount of storage or retention that could be secured with-

out incurring damages to the Toledo, Peoria and Western Railroad and the village of Breeds. From the topographical map, it appears that more satisfactory results would be obtained by the construction of works on some of the tributary branches.

Copperas Creek, East Branch-A very good site appears feasible near the south line of Section 13, T. 7 N., R. 5 E. A structure at this point would retain the flood waters for practically all the area above the Toledo, Peoria and Western Railroad. The watershed area is about 60 square miles. The valley walls are high enough to permit 80 feet of storage at the dam if that should be needed. With spillway crest at elevation 540, there would be created a reservoir having a depth at the dam of about 42 feet, a pool area of about 1,030 acres, and a storage of approximately 14,400 acre feet.

Three state highway routes would be more or less affected by a reservoir at this point.

Three other dam locations are offered but it would appear that a dam in Section 13 would be the most advantageous.

Put Creek Drainage System-From the standpoint of flood control, which appears to be the logical use of a reservoir on this stream or its branches, a dam across the valley near the junction of Laswell Creek and Put Creek in the N.E. 1/4 of Section 8, T. 6 N., R. 2 E., appears the most feasible. The drainage area above this point is about 93 square miles.

A dam constructed at this point with spillway crest at elevation 540 feet, would create a reservoir having a surface area of about 2,000 acres and a storage of approximately 24,000 acre feet.

Spoon River-A feasible dam site is indicated on the topographical map in the S.W. 1/4 of Section 7, T. 6 N., R. 2 E. The drawback to a structure at this point is (a) the present agricultural use of the valley bottom lands, and (b) the low elevation of the villages of Babylon, Ellisville, Ellisville Station and London Mills, together with the apparent low elevation of the road bed of the Chicago, Burlington and Quincy Railroad south of London Mills. For these reasons, no consideration was given to a reservoir on the main stream.

Shoal Creek-A small reservoir for flood control purposes could be constructed on this small water course by providing a dam in the S.E. 1/4 of Section 1, T. 6 N., R. 1 E. The watershed is about 6 square miles. A spillway crest elevation of 540 feet would create a reservoir having a surface area of 20 acres, and a storage of about 300 acre feet. The valley walls would permit a pool level at elevation 580 feet.

Shaw Creek and South Fork-A feasible site for a dam to create a flood control reservoir on Shaw Creek is indicated by the topographical map in the S.W. 1/4 of Section 11, T. 6 N., R. 1 E. The watershed area above this point is about 52 square miles. A dam with spillway crest at 540-foot elevation will create a reservoir having a pool area of about 780 acres and a storage of approximately 9,360 acre feet.

A suggested water supply reservoir, on this same stream, for the city of Bushnell, listed under McDonough County, was estimated to impound 3,300 acre feet. This would create a total of 12,660 acre feet of storage for both reservoirs.

The valley walls at the proposed site of the Shaw Creek Dam will support an increase in height of the pool surface to as much as 40 feet or to elevation 580 feet.

Barker Creek-A site for a dam appears feasible across the valley of this stream in the N.E. $\frac{1}{4}$ of Section 27, T. 6 N., R. 1 E. The drainage basin area is about 17 square miles. With pool level at elevation 540 feet, the lake area would be about 320 acres and the storage approximately 4,160 acre feet. The valley walls would permit an increase in spillway elevation.

Badger Creek-A site for a dam appears feasible in the N. E. $\frac{1}{4}$ of Section 34, T. 6 N., R. 1 E. The watershed area is about 10 square miles. With spillway at elevation 540 feet, a reservoir would be created having a depth at the dam of 60 feet, a pool area of 270 acres, and a storage of about 5,400 acre feet.

Baughman Branch-Opportunity for a small reservoir is afforded on this stream. A dam in the S.E. $\frac{1}{4}$ of Section 25, T. 6 N., R. 1 E., would develop a small lake having about 2.5 square miles of drainage, a pool area of 90 acres, and a storage of approximately 1,170 acre feet, with spillway at elevation 540 feet.

Francis Creek-A dam in the S.E. $\frac{1}{4}$ of Section 13, T. 5 N., R. 1 E., with spillway crest at 520-foot elevation, would create a reservoir with an area of 150 acres, a storage of approximately 1,900 acre feet, and a drainage area of about 10 square miles.

Spoon River-A fairly good site for a dam on Spoon River is indicated on the topographical map on the west line of Section 1, T. 5 N., R. 1 E., at the place called "Tarter Bridge".

However, the grade of the Toledo, Peoria and Western Railroad in the vicinity of Seville appears to be too low to permit the development of enough storage to be of value.

Muddy Branch-A small reservoir could be constructed on this stream in Section 10, T. 5 N., R. 2 E., but its value would be small.

Stuart Creek-A dam site appears feasible on this stream in the N.E. $\frac{1}{4}$ of Section 14, T. 5 N., R. 2 E. The watershed area is about 10 square miles. If the pool level is taken at elevation 540 feet, the pond surface area is about 370 acres and the storage about 4,510 acre feet.

Big Creek-A reservoir of considerable size can be created on this stream by constructing a dam across the valley in the N.W. $\frac{1}{4}$ of Section 19, T. 5 N., R. 3 E. With spillway elevation at 520 feet the depth at the dam would be about 60 feet. The drainage area is about 62 square miles, the pool area 1,430 acres, and the storage about 28,600 acre feet. A reservoir of this size would likely require some reconstruction of the Chicago, Burlington and Quincy Railroad line as well as the highway between Lewistown and Cuba.

Big Sister Creek-A dam with spillway elevation at 500 feet across this valley in the N.W. 1/4 of Section 21, T. 5 N., R. 4 E., would create a reservoir having a pool area of 200 acres, a storage of approximately 2,600 acre feet, and a drainage basin of 13 square miles.

Little Sister Creek-A dam across this valley in the N.E. 1/4 of Section 21, T. 5 N., R. 4 E., with spillway at elevation 500 feet, would create a reservoir having a pool area of about 170 acres, and a storage of approximately 2,000 acre feet, and a watershed area of about 11 square miles.

Buckheart Creek-There are opportunities for two reservoirs on this stream.

A dam across the valley in the S.W. 1/4 of Section 12, T. 5 N., R. 4 E., with spillway elevation at 500 feet, would create a reservoir with a pool area of 320 acres, a storage of approximately 4,400 acre feet, and a watershed area of about 16 square miles.

The primary use of a reservoir at this point would be for flood control and protection of the Illinois River bottom lands in its vicinity.

A dam across the valley in the N.W. 1/4 of Section 24, T. 6 N., R. 4 E., with spillway at elevation 560 feet, would create a reservoir with a pool area of 150 acres, a storage of approximately 1,300 acre feet, and a watershed area of about 7.0 square miles. A reservoir here could serve the villages of St. David and Dunfermline as a raw water supply in the future.

Duck Creek-A prospective dam site is indicated by the topographical map in the N.W. 1/4 of Section 5, T. 5 N., R. 5 E. With spillway at elevation 500 feet a reservoir would be created with a pool area of about 260 acres, a storage of approximately 3,600 acre feet, and a watershed area of about 18 square miles.

Tater Creek-A reservoir constructed on Tater Creek with the dam located in the N.W. 1/4 of Section 1, T. 4 N., R. 2 E., would have a watershed of about 15 square miles. With spillway at elevation 520 feet there would be created a pool having an area of about 130 acres, and a storage of approximately 1,690 acre feet.

Otter Creek-For flood control purposes, a dam constructed across the valley near the S.E. corner of Section 29, T. 4 N., R. 3 E., with spillway at elevation 500 feet would create a reservoir having a pool area of about 1,600 acres, a storage of some 20,800 acre feet, and a drainage area of about 89 square miles.

The valley walls will permit an increase of 20 or even 40 feet in spillway elevation.

Opportunities are available for smaller reservoirs on the upper tributaries of this stream.

Sugar Creek-The valley of this stream is, from topographical standpoint, well suited for the development of a reservoir, especially for flood control purposes. A dam site appears available in the north central part of Section 5, T. 1 N., R. 1 E., 4th P. M. With spillway at elevation 500 feet, a reservoir would be created having a pool area of about 2,350 acres, a storage of approximately 47,000 acre feet, and a drainage area of about 162 square miles.

Topographically, a larger lake could be developed but the tracks of the Chicago, Burlington and Quincy Railroad, which occupy a considerable length of the valley, are the controlling factors.

Wilson Creek-This is a small stream but a dam near the south line of Section 36, T. 3 N., R. 2 E., with spillway at elevation 500 feet, would create a reservoir having a pool area of about 250 acres, a storage of approximately 3,200 acre feet, and a drainage area of 11 square miles.

In addition to reservoir sites throughout the county, there are a number of cities that could improve their water supply by changing from well water to reservoir water.

AVON

The city of Avon secures its public water supply from a deep (St. Peter sandstone) well. The water from this well is hard and highly mineralized. It is quite possible that some time in the future Avon may desire a surface water supply.

The Chicago, Burlington and Quincy Railroad has a small reservoir located in the south half of Section 20, T. 8 N., R. 1 E. From the topographical map it appears that the watershed area is about 2,050 acres, though the field reports state 4 square miles, 2,560 acres. The lake has an area of 21 acres, when full to spillway crest, and a storage of about 7,000,000 gallons. The lake is now used for recreational purposes.

Should the City of Avon ever desire a surface water supply there are three opportunities open to them:

1. Increase the storage of the Chicago, Burlington and Quincy Railroad lake. Such a course would result in the abandonment of the lake for recreational use. The watershed, however, likely would yield sufficient water.

2. Construct a dam on Gallett Creek south of the city. This is not a very feasible project since this stream carries the drainage of the little city of Prairie City.

3. Construct a dam on Swan Creek in the S.E. 1/4 of Section 13, T. 8 N., R. 1 W., Warren County. A description of this proposed project is given under Warren County.

CANTON

The question of a better and more adequate water supply for Canton has been talked of for years. It has been suggested that use, for this purpose, be made of the Park Reservoir located on Big Creek in the north west part of the city. However, a reservoir at this location does not appear as satisfactory as other locations on other streams.

West Branch of Copperas Creek-A site for a dam is available near or on the south line of Section 29, T. 7 N., R. 5 E. A dam constructed across the valley at this point with spillway at elevation 580 feet would create a reservoir having a depth at the dam of 60 feet, a pool area of 530 acres, a storage of approximately 10,600 acre feet, or 3,460,000,000 gallons, and a watershed area of 16.6 square miles.

On a basis of one-half foot available run-off per acre per year the watershed yield would amount to 5,320 acre feet, or 1,740,000,000 gallons. Since the storage capacity of the reservoir is about twice this, it likely would take more than a year to fill, but when once full the watershed would be capable of maintaining it.

There are many local features that recommend this site.

Middle Branch Copperas Creek-This stream is several miles farther from the city than "West Branch" but as good sites appear available on it they are listed.

A dam constructed across the valley in the N.E. 1/4 of Section 21, T. 7 N., R. 5 E., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 450 acres, a storage of approximately 7,200 acre feet, or 2,354,000,000 gallons, and a watershed area of 26 square miles.

On the basis of one-half foot of run-off per acre per year, the yield of the watershed is about 8,310 acre feet, or 2,717,000,000 gallons, or slightly more than the storage.

Other sites, on this stream, for dams are available in the S.W. 1/4 of Section 22 and the S.E. 1/4 of Section 27, T. 7 N., R. 5 E.

There are no apparent advantages for reservoir sites on Middle Branch over West Branch. But, on the other hand, considerable more pipe line would be required to take water into the city.

CUBA

An examination of well records in the 9 sections of land surrounding the city of Cuba discloses that all private wells are of the dug type and vary in diameter from 3 feet to 4 1/2 feet. In a majority of cases these wells are bottomed in sand and gravel, though some are finished in limestone. The depth varies from 14 to 65 feet with an average of about 28 to 30 feet. Many of the wells are subject to seasonable variation in the amount of water they contain and a few go dry under drought conditions.

The strip mine workings southeast of Cuba have seriously affected private wells in this area.

It appears extremely doubtful that a water supply of sufficient amount can be developed from wells.

The most promising source of water for a new public supply is from the open ponds in the strip mine area, or from an impounded supply on some satisfactory water course.

The nearest water course on which a surface water supply might be developed is Slug Run. The valley of this stream is sufficiently deep to permit very satisfactory reservoir construction. Discussion of this stream as a source of water supply is developed under three proposals. It appears, however, that *Site No. 3* likely would be the most acceptable.

Slug Run, Site 1-A dam across the valley of Slug Run about 900 feet north of the south line of Section 27, T. 6 N., R. 3 E., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 140 acres, a storage of 2,100 acre feet, or 686,000,000 gallons, and a watershed area of 8.1 square miles.

Slug Run, Site 2-A dam across the valley of Slug Run about 800 feet south of the north line of Section 27, T. 6 N., R. 3 E., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 90 acres, a storage of about 1,200 acre feet, or 392,000,000 gallons, and a watershed area of about 5.6 square miles.

Slug Run, Site 3-A dam across the valley of Slug Run on the alignment of the present county road on the east and west half section through the center of Section 22, T. 6 N., R. 3 E., with spillway at elevation 590 feet, would create a reservoir having a depth at the dam of about 28 feet, a pool area of about 60 acres, a storage of approximately 560 acre feet, or 261,000,000 gallons, and a watershed area of 4.6 square miles.

Put Creek-A fourth prospect for a reservoir fairly nearby is found on Put Creek. A dam across the valley of this stream about on the west line of Section 4, T. 6 N., R. 3 E., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of about 300 acres, a storage of approximately 4,000 acre feet, or 1,307,000,000 gallons, and a watershed area of about 20.2 square miles.

GALLATIN COUNTY

A large proportion of the area of Gallatin County is devoid of sufficient relief to make reservoirs possible. Only in the southern portion of the county in the vicinity of and to the west and southwest of Shawneetown is there a sufficiently rugged terrain to permit reservoir developments.

Such reservoirs as are possible would have but little value, except as farm ponds, unless these hill areas are taken over by the state or nation as parks. In this event reservoirs would have a recreational value.

Beaver Creek-A dam constructed across the valley of this stream in the S.E. $\frac{1}{4}$ of Section 33, T. 10 S., R. 9 E., with spillway at elevation 360 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 330 acres, a storage of approximately 2,300 acre feet, and a watershed area of 8.6 square miles.

The topography would permit increasing the elevation of the spillway to 380 feet. At this elevation the depth at the dam would be 40 feet, the pool area 500 acres, the storage approximately 6,500 acre feet, and the drainage area the same, or 8.6 square miles.

Shawneetown Hills-A dam constructed across this small water course in the N.E. $\frac{1}{4}$ of the N.E. $\frac{1}{4}$ of Section 14, T. 9 S., R. 9 E., with spillway at elevation 400 feet, would create a small reservoir having a depth at the dam of 20 feet, a pool area of 35 acres, a storage of approximately 225 acre feet, and a watershed area of 450 acres, or 0.7 square miles.

Wildcat Hills, Black Branch-A dam constructed across the valley of Black Branch near the center of Section 34, T. 9 S., R. 8 E., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of 33 feet, a pool area of 35 acres, a storage of approximately 385 acre feet, and a watershed area of 300 acres.

Wildcat Hills, Sugarcamp Branch-A dam constructed across the valley of this stream near the south line of the N.E. 1/4 of Section 5, T. 10 S., R. 8 E., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 28 feet, a pool area of 210 acres, a storage of approximately 1,900 acre feet, and a watershed area of 2 square miles.

The topography would permit an increase in spillway elevation to 420 feet. At this elevation the depth at the dam would be 48 feet, the pool area 390 acres, the storage approximately 6,250 acre feet, and the watershed area the same, or 2 square miles.

Occupying Sections 25 to 36 inclusive, T. 10 S., R. 8 E., Eagle Creek Township, is a range of hills that supply contributory drainage to Little Eagle Creek. Within this six-mile long strip are eight valleys or hollows in which small reservoirs might be constructed. Dam locations are suggested as follows:

Pounds Hollow in the N.E. 1/4 of Section 25.

Clayton Hollow in the N.E. 1/4 of Section 26.

Thacker Hollow in the S.E. 1/4 of the S.E. 1/4 of Section 22.

Grindstaff Hollow in the N.E. 1/4 of the N.E. 1/4 of Section 28.

Captain Vinyard Hollow in the S.W. 1/4 of the S.E. 1/4 of Section 20.

Rash Hollow in the S.E. 1/4 of the S.W. 1/4 of Section 20.

Colbert Hollow in the N.W. 1/4 of the N.E. 1/4 of Section 30.

Hollow in the N.E. 1/4 of the N.W. 1/4 of Section 30.

The watershed above these dams vary from about 1/2 to 3 square miles in area. Since the topography is quite rugged the rate of run-off is likely quite high and it is entirely possible that the run-off may be as much as 15 inches or more. At 15 inches the run-off would vary from 400 acre feet for a half-square mile drainage basin to 2,400 acre feet for a 3-square mile basin. Under these conditions, reservoirs of almost any reasonable capacity could be constructed, even to two or perhaps three times the theoretical yield. Such capacities would, of course, require several years to fill but when once filled the watersheds would maintain them.

Eagle Creek-A dam constructed across the valley of this stream near the South line of the S.W. 1/4 of Section 7, T. 10 S., R. 8 E., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of about 50 feet, a pool area of 2,550 acres, a storage of approximately 42,500 acre feet, and a watershed area of about 16.6 square miles. To develop a lake of this proportion would require a low embankment across a saddle in the N.E. 1/4 of the S.E. 1/4 of Section 12, and a somewhat larger one across the divide in the S.W. 1/4 of the S.W. 1/4 of Section 1, T. 10 S., R. 7 E. A lake developed under these specifications would largely eliminate the one described on this stream and listed under Saline County.

Little Eagle Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 19, T. 10 S., R. 8 E., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 35 feet, a pool area of 260 acres, a storage of approximately 3,030 acre feet, and a watershed area of 2.23 square miles.

GREENE COUNTY

The surface relief of Greene County is sufficiently rugged to provide many opportunities for artificial reservoirs for all purposes.

Macoupin Creek-This stream flows through a fertile valley dedicated to intensive farming. The lower portion has been straightened by the construction of ditches, indicating in a measure the value placed on the valley from an agricultural standpoint.

However, from a flood control viewpoint a large retention reservoir could be created by the construction of a dam across the valley at Spaukey Hill, or in the N.E. 1/4 of Section 33, T. 9 N., R. 13 W.

The slope of the stream is about a foot per mile, hence dams of 20 feet or more would create a very long back water pool. The topography, however, would permit a high dam.

The drainage watershed is better than 1,000 square miles and the annual run-off would be all of 480,000 acre feet. The necessity for a reservoir on this stream, near its mouth, would depend upon the magnitude of the flood water damage in the Illinois River bottoms.

Tar Hollow-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 27, T. 9 N., R. 13 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 130 acres, a storage of approximately 1,950 acre feet, and a watershed area of about 4 square miles.

Woodville Township T. 9 N., R. 13 W.-There are numerous lines of drainage down the east bluffs of the Illinois River but most of those of any consequence are occupied by highways, hence their use for water storage would not be feasible.

Bluffdale Township T. 10 N., R. 13 W.-There are numerous lines of drainage down the east bluff of the Illinois River but most of those of any consequence are either occupied by railroads or highways, hence their use for storage reservoirs would likely not be feasible.

Walkerville Township T. 11 N., R. 13 W. and Patterson Township T. 12 N., R. 13 W.-There are numerous lines of drainage down the east bluffs of the Illinois River throughout these two townships but the use of such drainages for reservoir sites is seriously hampered by existing occupations. However, the upper branches of Hurricane Creek afford opportunities for a number of small ponds.

Apple Creek-This stream might merit some consideration as a reservoir basin from the standpoint of flood control, but its valley is adaptable to agriculture, and hence the damage in the valley likely would offset any benefits derived on the Illinois River flood plain.

The best dam sites are in Section 25, T. 11 N., R. 13 W., but even here the structure would be more than a half-mile long. Highway and railroad crossings would also require consideration.

For these reasons no figures are offered for the size and storage of a lake on this stream.

There are a number of small draws along the lower reaches of this stream suitable for small farm or stock pools.

Hurricane Creek-The valley of Hurricane Creek is occupied by the Chicago and Alton Railroad from Hillview to about a mile north-east of the Village of Drake. Topographically, this valley is suited for a reservoir location, but the railroad as well as the highway prevent its development.

The upper portion of the stream above Drake has a number of sites for small farm or stock watering ponds.

No Name Creek (A branch of Apple Creek)-A dam constructed across the valley of this stream near the S.E. Corner of the N.E. 1/4 of Section 25, Walkerville Township (T. 11 N., R. 13 W.), with spillway elevation at 500 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of about 365 acres, a storage of about 7,300 acre feet, and a watershed area of 8.5 square miles.

Coats Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 6, T. 10 N., R. 12 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 33 feet, a pool area of 260 acres, a storage of approximately 2,860 acre feet, and a watershed area of 14.2 square miles.

A reservoir at this site with pool surface at elevation 480 feet would submerge, by some 20 feet, the springs furnishing the present water supply for Carrollton.

Should Carrollton ever adopt a surface supply this site would be very satisfactory.

Wolf Run-The City of White Hall has a small municipal water supply reservoir in the N.E. 1/4 of Section 36, T. 12 N., R. 12 W., on the west branch of Wolf Run. The storage seems to be sufficient for the city needs even though the drainage area, as indicated on the Roodhouse topographical quadrangle, is only about 640 acres.

Wolf Run-A possible dam site on the Wolf Run drainage is found in the N.E. 1/4 of Section 6, T. 11 N., R. 11 W. This site combines the water from the middle fork and the main stream. The watershed embraces about 9.5 square miles. With spillway at elevation 520 feet, there would be created a reservoir having a depth at the dam of 30 feet, a pool area of 200 acres, and a storage of about 2,000 acre feet. Such a reservoir could serve as an increased supply for White Hall.

The topography would permit placing the spillway at elevation 530.

Birch Creek-A dam site is available on this stream in the S.E. 1/4 of Section 23, T. 12 N., R. 11 W. A structure at this point, with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 39 feet, a pool area of 125 acres, a storage of about 1,600 acre feet, and a watershed area of about 9.9 square miles.

Marks-Lick Creek Drainage-A dam across this valley in the S.W. 1/4 of Section 18, T. 12 N., R. 10 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 1,030 acres, a storage of about 15,450 acre feet, and a watershed area of 40.6 square miles.

Bear Creek-The first opportunity for a dam site on this stream appears to be in the S.W. 1/4 of Section 14, T. 11 N., R. 11 W., Wright's Township. With spillway at elevation 520 feet, there would be created a reservoir having a depth at the dam of 40 feet, a pool area of 385 acres, a storage of 5,130 acre feet, and a watershed area of 17.2 square miles.

Topographically, it appears possible to find sites for smaller reservoirs farther up on Bear and Little Bear Creeks.

Whitaker Creek-The lower two miles of this stream lie in a rather wide valley in which the opportunities for dam construction do not appear to be good. However, a fair site is noted in the S.E. Corner of the N.E. 1/4 of Section 36, T. 11 N., R. 12 W. A dam at this point, with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 35 feet, a pool area of 400 acres, a storage of about 4,670 acre feet, and a watershed area of about 24.5 square miles.

Complete regulation would require a greater volume of storage than this. However, the valley walls would permit raising the spillway to elevation of 520 feet.

The head waters of the various branches of this stream would afford numerous opportunities for small farm or stock pools.

Link Branch-The watershed of this stream covers a considerable portion of the southeasterly portion of Carrollton Township, T. 10 N., R. 12 W. On the head waters of this stream are opportunities for small farm reservoirs. A reservoir on the main valley, however, is not feasible since the Chicago and Alton Railroad occupies some 2 miles of the valley length.

Sand Creek, Sand Branch, Little Bear, Bear Creek-The watersheds of these streams are contiguous and occupy an area in the south-westerly portion of Linden Township, T. 10 N., R. 11 W. The valleys afford opportunity for small reservoirs suitable for farm use or recreational purposes. The size would depend on the use.

Dry Branch-A dam constructed across the valley of this stream near the south line of the S.W. 1/4 of Section 10, T. 9 N., R. 12 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 54 feet, a pool area of 190 acres, a storage of approximately 3,420 acre feet, and a watershed area of 10.8 square miles. The length of the dam is rather against this project from the standpoint of economy of construction.

Wines Branch-A dam across the valley of this stream about a quarter-mile north of the S.E. Corner of Section 28, T. 9 N., R. 12 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 57 feet, a pool area of 300 acres, a storage of approximately 5,700 acre feet, and a watershed area of 12.5 square miles. The site would likely permit the development of a greater storage.

Boyer Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 32, T. 9 N., R. 12 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 40

feet, a pool area of 220 acres, a storage of approximately 2,930 acre feet, and a watershed area of 10.2 square miles. The topography would permit an increase in spillway elevation.

Nigger Lick-A dam site in this valley is afforded in the Southeast Corner of the N.E. 1/4 of Section 32, Athensville Township, (T. 12 N., R. 10 W.). The watershed area above this point is about 23 square miles and a dam, with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 700 acres, and a storage of about 10,500 acre feet.

Rubicon Creek-A dam across the valley of this stream, which is a tributary of Taylor Creek, near the southeast corner of Section 33, Rubicon Township, T. 11 N., R. 10 W., with spillway at elevation 570 feet, would create a small lake with a depth at the dam of 27 feet, a pool area of 130 acres, a storage of approximately 1,170 acre feet, and a watershed area of about 7 square miles. A lake at this point could serve either recreational purposes or as a surface source for the public water supply of Greenfield.

Taylor Creek, Site 1-A dam across the valley of this stream in the S.W. 1/4 of the S.W. 1/4 of Section 32, Rockbridge Township, T. 10 N., R. 10 W., with spillway at elevation 500 feet, would create a reservoir with a depth at the dam of about 27 feet, a pool area of 800 acres, a storage of about 7,200 acre feet, and a watershed area of 50 square miles. The railroad and highway bridges north of Rockbridge village are the controlling features. Such a reservoir would fit into either a recreational or flood control program.

Taylor Creek, Site 2-A dam across the valley of this stream near the southeast Corner of Section 2, Rockbridge Township, T. 10 N., R. 10 W., with spillway elevation at 570 feet, would create a reservoir having a depth at the dam of 36 feet, a surface area of 240 acres, a storage of approximately 2,880 acre feet, and a watershed area of about 12 square miles.

From the topographical map it appears that a spillway elevation of 580 feet is possible.

Smaller reservoirs further up this stream are quite possible in so far as the topography is concerned.

GRUNDY COUNTY

The topography of Grundy County lacks sufficient relief for satisfactory reservoir sites.

In general the stream valleys are broad and to develop reservoirs thereon would require dams of a size all out of proportion to the benefits that would accrue.

Four small reservoirs are, however, listed in the westerly part of the County on tributaries of the Illinois River.

Carson Creek-A dam constructed across the valley of this stream at the northeast corner of Section 18, T. 33 N., R. 6 E., with spillway at elevation 560 feet would create a reservoir having a depth at the dam of 33 feet, a pool area of 100 acres, a storage of approximately 1,100 acre feet, and a watershed area of 9.1 square miles.

Armstrong Run-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 30, T. 33 N., R. 6 E., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 24 feet, a pool area of 40 acres, a storage of approximately 320 acre feet, and a watershed area of 7.1 square miles.

Hog Run-A dam constructed across the valley of this stream in the southwest corner of the S.E. 1/4 of Section 28, T. 33 N., R. 6 E., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 27 feet, a pool area of 60 acres, a storage of approximately 540 acre feet, and a watershed area of 8.3 square miles.

Bills Run-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 24, T. 33 N., R. 6 E., with spillway elevation at 560 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 60 acres, a storage of approximately 800 acre feet, and a watershed area of 7.7 square miles.

HAMILTON COUNTY

Tributaries of three drainage systems head up in Hamilton County, namely:

Little Wabash River,
Saline River,
Big Muddy River.

Topographical quadrangle maps are not available for this county but there is a highway topographical strip along Route 14 which indicates considerable ruggedness in certain areas. The topography should permit the development of fair-sized reservoirs. The City of McLeansboro has a reservoir for the city's supply.

HANCOCK COUNTY

The rougher portions of the county are found in the westerly part, particularly in that area adjacent to the Mississippi River. The balance of the county has sufficient topographical relief to permit the development of a number of good-sized reservoirs, to say nothing of the more numerous smaller farm ponds.

Voel Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 9, T. 7 N., R. 5 W., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 90 acres, a storage of approximately 1,080 acre feet, and a watershed area of 8.5 square miles. The topography would permit an increase in elevation of spillway of at least 10 feet.

North Branch Crooked Creek-A dam constructed across the valley of this stream on the west line of the S.W. 1/4 of Section 10, T. 7 N., R. 5 W., with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of 57 feet, a pool area of 600 acres, a storage of approximately 11,400 acre feet, and a watershed area of 19.6 square miles. The topography would permit an increase in the elevation of the spillway.

South Branch Crooked Creek-A dam constructed across the valley of this stream in the northeast corner of the N.W. 1/4 of Section 22, T. 7 N., R. 5 W., with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of 42 feet, a pool area of 370 acres, a storage of approximately 5,180 acre feet, and a watershed area of 13.6 square miles.

The time may come when the city of LaHarpe may need a surface water supply. A reservoir at this location would serve this purpose admirably, as the dam location suggested is adjacent to the northeasterly limits of the City.

LaHarpe Creek-A dam constructed across the valley of this stream on the south line of the S.W. 1/4 of Section 4, T. 6 N., R. 5 W., with spillway at elevation 620 feet would create a reservoir having a depth at the dam of 42 feet, a pool area of 470 acres, a storage of approximately 6,580 acre feet, and a watershed area of 25.6 square miles.

Little Creek-A dam constructed across the valley of this stream on the south line of the S.E. 1/4 of Section 4, T. 6 N., R. 5 W., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 230 acres, a storage of approximately 2,760 acre feet, and a watershed area of 10.7 square miles.

Baptist Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 10, T. 6 N., R. 5 W., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 42 feet, a pool area of 530 acres, a storage of approximately 7,420 acre feet, and a watershed area of 20.9 square miles.

Rock Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 21, T. 6 N., R. 5 W., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 42 feet, a pool area of 690 acres, a storage of approximately 9,660 acre feet, and a watershed area of 20.7 square miles.

Cedar Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 8, T. 5 N., R. 5 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 360 acres, a storage of approximately 3,600 acre feet, and a watershed area of 27.7 square miles.

Crooked Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 27, T. 5 N., R. 5 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 42 feet, a pool area of 4,690 acres, a storage of approximately 65,600 acre feet, and a watershed area of 343.0 square miles.

Bronson Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 24, T. 4 N., R. 5 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 1,370 acres, a storage of approximately 18,270 acre feet, and a watershed area of about 61.6 square miles.

Panther Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 32, T. 4 N., R. 5 W., with spillway at eleva-

tion 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 570 acres, a storage of approximately 7,600 acre feet, and a watershed area of 17.9 square miles. Panther Creek is an important tributary of Bronson Creek.

The topography would permit an increase in elevation of spillway.

On the branches of this stream are many opportunities for small farm reservoirs.

Bronson Creek-A second site for a reservoir is available on this stream some 4 or more miles upstream from the former suggestion. A dam constructed across this stream in the N.E. 1/4 of Section 19, T. 4 N., R. 5 W., with spillway at elevation 590 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 388 acres, a storage of approximately 5,180 acre feet, and a watershed area of 16.8 square miles.

The topography would permit an increase in elevation of spillway.

On the branches of this stream are numerous opportunities for small farm ponds.

Branch of Bear Creek-A dam constructed across the valley of this stream in the west part of Section 32, T. 4 N., R. 7 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 760 acres, a storage of approximately 10,130 acre feet, and a watershed area of 23.2 square miles.

Branch of Bear Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 21, T. 4 N., R. 7 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 132 acres, a storage of approximately 880 acre feet, and a watershed area of 9.7 square miles.

West Fork of Bear Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 8, T. 4 N., R. 7 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 21 feet, a pool area of 314 acres, a storage of approximately 2,200 acre feet, and a watershed area of 21.1 square miles.

The topography would permit an increase in elevation of spillway.

Branch of Bear Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 3, T. 4 N., R. 7 W., with spillway at elevation 630 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 189 acres, a storage of approximately 1,890 acre feet, and a watershed area of 7.1 square miles.

Grove Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 14, T. 6 N., R. 6 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 406 acres, a storage of approximately 5,410 acre feet, and a watershed area of 18.8 square miles.

Crooked Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 1, T. 6 N., R. 6 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of

35 feet, a pool area of 950 acres, a storage of approximately 11,080 acre feet, and a watershed area of 81.0 square miles.

The topography would permit an increase in elevation of the spillway.

Spring Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 14, T. 7 N., R. 6 W., with spillway at elevation 630 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 382 acres, a storage of approximately 3,820 acre feet, and a watershed area of 15.8 square miles.

Camp Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 6, T. 7 N., R. 6 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 508 acres, a storage of approximately 7,620 acre feet, and a watershed area of 36.6 square miles.

Opportunities for additional reservoirs on the upper reaches and tributaries of this stream are available.

Spillman Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 9, T. 7 N., R. 7 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 51 feet, a pool area of 262 acres, a storage of approximately 4,450 acre feet, and a watershed area of 5.6 square miles.

Robinson Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 19, T. 7 N., R. 8 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 143 acres, a storage of approximately 1,430 acre feet, and a watershed area of 4.8 square miles.

Larry Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 31, T. 6 N., R. 8 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 81 feet, a pool area of 420 acres, a storage of approximately 11,340 acre feet, and a watershed of 34.5 square miles.

In addition to those listed the sharp valleys all along the river bluffs afford many opportunities for reservoirs or ponds, some of which could be of respectable size.

HARDIN COUNTY

The surface of Hardin County is topographically quite rugged and small reservoirs suitable for stock or farm ponds are possible almost anywhere.

Honey Creek-A dam across the valley of this stream in the S.E. 1/4 of Section 33, T. 11 S., R. 10 E., with spillway elevation at 400 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 830 acres, a storage of approximately 16,600 acre feet, and a watershed area of about 101/4 square miles. A high piece of ground near the center would make a small island. More than 3 miles of road would be inundated.

Rock Creek-The lower valley of this stream is wide and there appears to be no opportunity to locate a dam of reasonable length within the lower 2 1/2 miles. It appears however, that a fair dam site is

available in the S.W. 1/4 of Section 14, T. 11 S., R. 9 E. A dam at this site, with the spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 54 feet, a pool area of about 120 acres, a storage of approximately 2,160 acre feet, and a watershed area of 5.5 square miles.

Harrisand Goose Creeks-A satisfactory dam site appears to be available in the N.E. 1/4 Section 15, T. 11 S., R. 9 E. A dam at this location, with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 54 feet, a pool area of about 1,000 acres, a storage of approximately 18,000 acre feet, and a watershed area of about 11 square miles.

An interesting feature of a lake at this point is that a high rise of ground between the two streams would stand out as an island of about 180 acres area.

Big Creek-A very promising reservoir site is available in this valley with a dam in the N.W. 1/4 of Section 21, T. 12 S., R. 8 E. A dam constructed at this location, with spillway at elevation 380 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,830 acres, a storage of approximately 36,600 acre feet, and a watershed area of about 39 square miles.

HENDERSON COUNTY

Fall Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 33, T. 12 N., R. 4 W., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 143 acres, a storage of approximately 2,860 acre feet, and a watershed area of 11.4 square miles. The topography would permit some increase in spillway elevation.

The tributaries of this stream afford opportunities for many small farm ponds.

Smith Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 19, T. 11 N., R. 4 W., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 234 acres, a storage of approximately 4,680 acre feet, and a watershed area of 11.6 square miles. Some increase in spillway elevation is possible. There are opportunities for small ponds on the tributaries.

Jinks Hollow-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 25, T. 11 N., R. 5 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 189 acres, a storage of approximately 3,150 acre feet, and a watershed area of 15.1 square miles. The topography would permit some increase in spillway elevation. The small tributaries would provide opportunities for numerous small farm ponds.

South Henderson Creek-This valley is so thoroughly occupied by the roadbed of the Chicago, Burlington and Quincy Railroad that there is no opportunity to develop a reservoir in it. Opportunities are afforded, however, on the upstream tributaries for the development of small farm ponds.

Ellison Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 8, T. 9 N., R. 5 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 874 acres, a storage of approximately 8,740 acre feet, and a watershed area of 87.9 square miles.

An increase in spillway elevation is possible. Sites for smaller reservoirs are available on the various tributaries of the stream system.

Dixson Creek-The City of Stronghurst has a public water supply from a deep well that yields a water of undesirable quality.

As a suggestion for an improvement, a dam across the valley of this stream along the north line of Section 30, T. 9 N., R. 4 W., with spillway at elevation 660 feet would create a small reservoir suitable for a raw water surface supply for Stronghurst. The reservoir would have a depth at the dam of 40 feet, a pool area of 200 acres, a storage of approximately 2,670 acre feet, and a watershed area of 3.2 square miles. The dam should be constructed of sufficient width to provide for the highway.

An increase in elevation of spillway is possible.

Honey Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 12, T. 8 N., R. 6 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 39 feet, a pool area of 154 acres, a storage of approximately 2,000 acre feet, and a watershed area of 53.1 square miles. The topography would permit an increase in spillway elevation.

Small ponds are possible on the tributaries of this stream.

Dugout Creek-A dam site presents itself on this stream in the N.W. 1/4 of Section 23, T. 8 N., R. 6 W., at the river flood plain, but such a location would interfere with the Toledo, Peoria and Western R. so a site was selected in the S.W. 1/4 of said Section 23. A dam at this location with spillway at elevation 610 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 166 acres, a storage of approximately 2,490 acre feet, and a watershed area of 13.9 square miles.

The topography would permit an increase in spillway elevation. The tributary drainage would permit the development of other small pools.

Camp Creek-A site for a dam presents itself in the valley of this stream in the S.W. 1/4 of Section 36, T. 8 N., R. 7 W., but a reservoir on this stream with a dam just over the line in Hancock County has previously been listed; so that a second listing is not given for this small increase in capacity and watershed area.

The rugged topography of the River Bluffs drainage provide opportunities for many more reservoirs than have been listed, some of which would be of respectable size.

HENRY COUNTY

The northerly portion of Henry County is relatively low with but slight relief, but in the southern portion opportunities for some fair sized reservoirs are found.

King Creek-The lower valley of this stream is wide and flat and reservoir sites are not available, but on the head water tributaries the rougher topography supplies sites for many small farm ponds.

Mud Creek-The lower valley of this stream is wide and flat and reservoir sites are not available except on the head water tributaries where opportunity is afforded for many small farm reservoirs.

A dam constructed across the valley of this stream in the N.E. 1/4 of Section 7, T. 15 N., R. 5 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 860 acres, a storage of approximately 10,320 acre feet, and a watershed area of 22.6 square miles.

An increase in spillway elevation is possible.

Walker Creek-A dam constructed across the valley of this stream, a tributary of Mud Creek, in the S.E. 1/4 of Section 11, T. 15 N., R. 4 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 420 acres, a storage of approximately 4,200 acre feet, and a watershed area of 14.0 square miles.

An increase in spillway elevation is possible. Sites for small farm ponds are available on the upstream tributaries.

Spring Creek-A dam constructed across the valley of this stream on the north line of Section 1, T. 16 N., R. 3 E., with spillway at elevation 650 feet, would provide an opportunity to open a county road along the township line. The reservoir formed would have a depth at the dam of 33 feet, a pool area of 2,150 acres, a storage of approximately 23,650 acre feet, and a watershed of 58.0 square miles.

The topography would permit an increase in spillway elevation. Additional reservoirs of smaller capacity are possible on the upper tributaries.

Geneseo Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 29, T. 17 N., R. 3 E., with spillway at elevation 660 feet would create a reservoir having a depth at the dam of 33 feet, a pool area of 770 acres, a storage of approximately 8,470 acre feet, and a watershed area of 20.6 square miles.

The upper portions of the tributary streams indicate available sites for smaller ponds.

Mineral Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 20, T. 17 N., R. 2 E., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 650 acres, a storage of approximately 10,830 acre feet, and a watershed area of 20.4 square miles.

Some increase in elevation of spillway is possible. Sites for smaller ponds are available on the upstream tributaries.

Tributary Green River-A dam constructed across the valley of a tributary of Green River in the S.W. 1/4 of Section 14, T. 17 N., R. 1 E., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of about 70 feet, a pool area of 298 acres, a storage of approximately 6,620 acre feet, and a watershed area of 9.3 square miles.

Opportunity is presented for smaller ponds on the upstream tributaries of this stream.

Turners Creek-A dam constructed across the valley of this stream in the north half of Section 22, T. 17 N., R. 1 E., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 55 feet, a pool area of 234 acres, a storage of approximately 4,290 acre feet, and a watershed area of 7.3 square miles. Smaller reservoirs on the tributaries of this stream are possible.

Mosquito Creek-The road bed of the Chicago, Burlington and Quincy Railroad, which occupies the valley of the stream for its entire length, precludes the development of a reservoir on the main stream, but opportunity is presented for a small reservoir on a fair-sized tributary. The construction of a dam across its valley in the S.W. 1/4 of Section 3, T. 16 N., R. 1 E., with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of 27 feet, a pool area of 46 acres, a storage of approximately 414 acre feet, and a watershed of 3.0 square miles.

The topography would permit an increase in the elevation of the spillway.

Camp Creek-The side tributaries of this stream south of Orion offer opportunities for small farm ponds.

Edwards River-The side tributaries of this stream offer opportunities at many places for small reservoirs and farm ponds.

IROQUOIS COUNTY

The topography of Iroquois County is gently rolling. Opportunities for reservoir sites are generally lacking except that there are sites for shallow farm ponds.

This is an agricultural County and many drainage districts exist. This in itself would work against the reestablishment of wet areas.

JACKSON COUNTY

Kinkaid Creek-The lower 3 miles of this valley are occupied by the Illinois Central Railroad and hence cannot be used. But a dam site appears available near the southeast corner of the N.W. 1/4 of Section 28, T. 8 S., R. 3 W. (Levan Township).

A dam at this point, with spillway elevation at 440 feet, would create a reservoir having a depth at the dam of 81 feet, a pool area of about 2,200 acres, and a storage of approximately 59,400 acre feet, with a watershed area of about 48 square miles. This appears to be somewhat in excess of the annual watershed yield, but when once filled the watershed could easily maintain it.

The City of Murphysboro is but 6 miles distant.

Rattlesnake Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 28, T. 7 S., R. 3 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of about 200 acres, a storage of approximately 4,000 acre feet, and a watershed area of about 6 square miles.

Mud Creek-A dam across the valley of Mud Creek in the N.E. 1/4 of Section 11, T. 9 S., R. 2 W., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 500 acres, a storage of approximately 8,500 acre feet, and a watershed area of about 9 square miles.

Lewis Creek-A dam constructed across the valley of Lewis Creek in the northeast corner of Section 20, T. 9 S., R. 2 W., with spillway elevation at 400 feet, would create a reservoir having a depth at the dam of 15 feet, a pool area of 80 acres, a storage of about 400 acre feet, and a watershed area of approximately 4.7 square miles.

The topography would permit an increased elevation of the spillway and hence greater storage.

Bear Creek-A dam across the valley of Bear Creek in the northeast corner of the S.E. 1/4 of Section 7, T. 10 S., R. 2 W., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of 51 feet, a pool area of 80 acres, a storage of about 1,350 acre feet, and a watershed of 33/4 square miles.

The topography will permit an increased elevation of the spillway and hence greater storage.

Cedar Creek-Topographically there is an opportunity to construct a dam across the valley of Cedar Creek in the S.E. 1/4 of Section 11, T. 10 S., R. 3 W. and thereby create a very large reservoir for flood control and recreational purposes. However, the Mobile and Ohio Railroad occupies the valleys of Sugar Creek and Cave Creek, two tributaries of Cedar Creek, as well as crossing the valley of Cedar Creek. Thus the Railroad is a controlling factor that prevents the development of a large reservoir.

Reservoir developments on both Sugar and Cave Creeks are eliminated for the same reason.

However, a feasible site on Cedar Creek above the Railroad appears available in the N.W. 1/4 of Section 10, T. 10 S., R. 2 W. A dam across the valley at this point, with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 33 feet, a pool area of 1,100 acres, a storage of about 12,000 acre feet, and a watershed area of approximately 34.5 square miles.

Drury Creek-The utilization of Drury Creek for either water supply or flood control purposes is prevented because of the occupation of a considerable portion of the valley by the Illinois Central Railroad.

Indian Creek-However, there is an opportunity to develop a sizeable reservoir on Indian Creek, a tributary of Drury Creek, by constructing a dam across the valley in the S.E. 1/4 of Section 3, T. 10 S., R. 1 W. A dam at this point, with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 370 acres, a storage of about 3,700 acre feet, and a watershed area of about 9 square miles.

Further upstream a second site appears available. A dam constructed across the valley of Indian Creek in the N.W. 1/4 of Section 23, T. 10 S., R. 1 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area

of about 260 acres, a storage of approximately 5,200 acre feet, and a watershed area of 4.1 square miles. The topography would permit increasing the elevation of the spillway by as much as 50 feet.

Tributary to Drury Creek-A dam constructed across the valley of this small water course in the N.W. 1/4 of Section 21, T. 10 S., R. 1 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of about 110 acres, a storage of approximately 2,930 acre feet, and a watershed area of 2.5 square miles.

JASPER COUNTY

Topographical maps of this County are not available but it is known that in general the topography is of low relief. Hence, opportunities for sizeable reservoirs are lacking.

JEFFERSON COUNTY

Topographical maps are available for only a part of this County, therefore the study includes only areas for which maps are available.

Horse Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 21, T. 1 S., R. 4 E., with spillway at elevation 470 feet, would create a reservoir having a depth at the dam of 33 feet, a pool area of 1,530 acres, a storage of approximately 16,830 acre feet, and a watershed of 43 square miles. Some increase in elevation of spillway appears possible. The various tributaries also offer possibilities for small reservoir sites.

Casey Creek-This valley is occupied by the roadway of the Chicago and Eastern Illinois Railroad and therefore cannot be developed as a reservoir site, but a number of its tributaries are available. One tributary has already been developed into a water supply reservoir for the City of Mt. Vernon.

Tributary Casey Fork-A dam constructed across the valley of this stream near the center of Section 32, T. 1 S., R. 3 E., with spillway at elevation 510 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 172 acres, a storage of approximately 1,720 acre feet and a watershed area of 4.6 square miles.

An increase in spillway elevation is possible.

Tributary of Casey Fork-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 31, T. 1 S., R. 3 E., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 27 feet, a pool area of 148 acres, a storage of approximately 1,330 acre feet, and a watershed area of 4.1 square miles.

There are opportunities for a considerable number of additional small reservoirs in the valleys of tributaries of Casey Fork.

East Creek and West Creek Tributaries of Kayse Creek-A dam constructed across the valley of these two streams in the west part of Section 28, T. 1 S., R. 2 E., with spillway at elevation 500 feet,

would create a reservoir having a depth at the dam of 27 feet, a pool area of 548 acres, a storage of approximately 4,930 acre feet, and a watershed area of 15.1 square miles.

Sites for small reservoirs are available on the upper tributaries.

East Muddy Creek-The upper tributaries of this stream are available for small reservoirs of the farm pond classification.

Sevenmile Creek-A rather long dam constructed across the valley of this stream in the N.W. 1/4 of Section 23, T. 2 S., R. 3 E., with spillway at elevation 490 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 990 acres, a storage of approximately 13,200 acre feet, and a watershed area of 11.6 square miles.

Puncheon Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 9, T. 2 S., R. 4 E., with spillway at 480 feet, would require rather long wing embankments, but would create a reservoir having a depth at the dam of 38 feet, a pool area of 993 acres, a storage of approximately 12,578 acre feet, and a watershed area of 14.4 square miles.

Dodds Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 14, T. 3 S., R. 3 E., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 348 acres, a storage of approximately 4,180 acre feet, and a watershed area of 6.8 square miles.

There are opportunities for additional reservoirs on other stream systems, but they could not be studied satisfactorily because of the lack of proper maps.

JERSEY COUNTY

Pleasant Hill Creek-This name is given to this stream for convenience since it has no name and is near the Pleasant Hill School.

A dam constructed across the valley of this stream in the S.E. 1/4 of Section 34, T. 9 N., R. 13 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 54 feet, a pool area of 220 acres, a storage of approximately 3,960 acre feet, and a watershed area of 4.0 square miles.

Sugar Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 12, T. 8 N., R. 13 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 270 acres, a storage of approximately 5,400 acre feet, and a watershed area of 6.7 square miles.

Nutwood-There are five small draws discharging onto the river flood plain between the mouth of Macoupin Creek and the Village of Nutwood. Small stock ponds might be constructed in these valleys or on their tributaries, but in general the slope is too sharp to make them of much use otherwise.

Otter Creek-A dam constructed across the valley of this stream in the west half of Section 4, T. 7 N., R. 13 W., with spillway at elevation 500 feet, would create a rather large reservoir with a depth at the dam of about 81 feet, a pool area of 3,510 acres, a storage of

approximately 94,800 acre feet, and a watershed of 88.0 square miles.

Objections might be raised to a reservoir at this site and of this extent because of the agricultural occupation of the valley and the amount of county road that would be involved.

Coon Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 16, T. 7 N., R. 13 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 420 acres, a storage of approximately 8,400 acre feet and a watershed area of 6.9 square miles.

The valley is occupied by a county road for its entire length, which likely would be against a reservoir development.

Mill Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 16, T. 6 N., R. 11 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 48 feet, a pool area of 190 acres, a storage of approximately 3,040 acre feet, and a watershed area of 6.2 square miles.

Piasa Creek-For description of possible reservoirs on this stream see Madison County.

JO DAVIESS COUNTY

Jo Daviess County is quite rugged topographically and many sites are available for reservoirs of all sizes. Those sites which are listed are only a few of the more outstanding.

Sinsinawa River-A dam constructed across the valley of this stream on the north line of Section 16, T. 28 N., R. 1 W., with spillway at elevation 660 feet, would provide a roadbed across the valley at this point for the highway, and would create a reservoir having a depth at the dam of 70 feet, a pool area of 570 acres, a storage of approximately 13,300 acre feet, and a watershed of 48.8 square miles.

The topography would permit an increase in spillway elevation.

Smallpox Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 34, T. 28 N., R. 1 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 710 acres, a storage of approximately 18,930 acre feet, and a watershed area of 23.6 square miles.

An increase in spillway elevation is possible.

Small reservoir sites are available on the upper tributaries.

Furnace Creek-A dam constructed across the valley of this stream at the north east corner of Section 15, T. 27 N., R. 2 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 520 acres, a storage of approximately 10,400 acre feet, and a watershed area of 17.0 square miles. An increase in spillway elevation is possible.

Apple River-Several good reservoir sites are available on Apple River above Elizabeth, but as a portion of this valley has been made into a State Park no sites are scheduled on the river proper. Four

reservoirs are suggested, however, on the tributaries above Elizabeth.

Mill Creek and Hells Branch-A dam constructed across the valley of these streams on the north line of Section 8, T. 27 N., R. 3 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 770 acres, a storage of approximately 15,400 acre feet, and a watershed area of 48.6 square miles.

An increase in spillway elevation is possible.

Coon Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 23, T. 28 N., R. 3 E., with spillway at elevation 780 feet, would create a reservoir having a depth at the dam of 63 feet, a pool area of 220 acres, a storage of approximately 4,620 acre feet, and a watershed area of 9.5 square miles.

The topography would permit an increase in spillway elevation.

Apple River-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 5, T. 28 N., R. 4 E., with spillway at elevation 860 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 260 acres, a storage of approximately 5,200 acre feet, and a watershed area of 39.7 square miles.

South Fork-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 4, T. 28 N., R. 4 E., with spillway at elevation 860 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 870 acres, a storage of approximately 17,400 acre feet, and a watershed area of 53 square miles.

Rush Creek, Site 1-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 35, T. 27 N., R. 3 E., with spillway at elevation 740 feet, would create a reservoir having a depth at the dam of 75 feet, a pool area of 820 acres, a storage of approximately 20,500 acre feet, and a watershed area of 21.9 square miles.

The topography would permit an increase in spillway elevation.

Rush Creek, Site 2-A dam constructed across the valley of this stream near the center of Section 8, T. 27 N., R. 4 E., with spillway at elevation 860 feet, would create a reservoir having a depth at the dam of 75 feet, a pool area of 270 acres, a storage of approximately 6,750 acre feet, and a watershed area of 5.2 square miles.

Straddle Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 30, T. 25 N., R. 4 E., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 54 feet, a pool area of 760 acres, a storage of approximately 13,680 acre feet, and a watershed area of 36.4 square miles.

The topography would permit an increase in spillway elevation.

Plum River-A dam constructed across the valley of this stream at the west line of Section 31, T. 25 N., R. 4 E., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 72 feet, a pool area of 4,810 acres, a storage of approximately 115,440 acre feet, and a watershed area of 262 square miles.

JOHNSON COUNTY

South Fork of Saline River (Sugar and Wagon Creek)-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 31, T. 10 S., R. 3 E., with spillway at elevation 500 feet, would create a reservoir with a depth at the dam of 39 feet, a pool area of about 1,100 acres, a storage of approximately 14,300 acre feet, and a watershed area of about 27 square miles.

This dam as located is largely in Williamson County. But since a very large percentage of the pool and its watershed basin is in Johnson County, it is credited to that County.

Lick Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 8, T. 12 S., R. 2 E., with spillway at elevation 400 feet, would create a reservoir with a depth at the dam of 21 feet, a pool area of 2,900 acres, a storage of approximately 20,300 acre feet, and a watershed area of about 39 square miles.

Dutchman Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 25, T. 12 S., R. 2 E., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 33 feet, a pool area of 1,300 acres, a storage of approximately 14,300 acre feet, and a watershed area of about 23 square miles.

Little Cache Creek-The lower portion of the valley of this stream is occupied by the Cleveland, Cincinnati, Chicago and St. Louis Railroad and hence cannot be used for reservoir purposes, but a small reservoir could be constructed on this stream just above the point at which the railroad leaves the valley.

A dam constructed across the valley of this stream in the S.W. 1/4 of Section 3, T. 12 S., R. 3 E., with spillway elevation at 460 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 160 acres, a storage of approximately 2,400 acre feet, and a watershed area of about 10.5 square miles.

Topographically the valley walls would permit a higher elevation for the spillway.

Max Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 28, T. 12 S., R. 4 E., with spillway elevation at 400 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 830 acres, a storage of approximately 9,960 acre feet, and a watershed area of about 13.5 square miles.

Cedar Creek-The lower portion of the Cedar Creek Valley is occupied by the Illinois Central Railroad, hence it does not appear feasible to develop a reservoir on this stream below the S.W. 1/4 of Section 3, T. 12 S., R. 4 E.

A dam constructed across the valley of this stream at this location, with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 69 feet, a pool area of 125 acres, a storage of approximately 2,875 acre feet, and a watershed area of about 5 square miles. Topographically an increase in elevation of the spillway is possible.

East Branch Cedar Creek-A small reservoir is possible on this stream. A dam constructed across the valley in the N.E. 1/4 of Section 3, T. 12 S., R. 4 E., with spillway at elevation 480 feet, would create

a reservoir having a depth at the dam of 80 feet, a pool area of 80 acres, a storage of approximately 2,100 acre feet, and a watershed area of about 2.5 square miles. Topographically, an increase in spillway elevation is possible.

Johnson Creek-A dam constructed across the valley of this stream on the west line of Section 22, T. 13 S., R. 4 E., at the northwest corner thereof, with spillway at elevation 380 feet, would create a reservoir having a depth at the dam of 24 feet, a pool area of 735 acres, a storage of approximately 5,900 acre feet, and a watershed area of 13 square miles. Topographically, an increase in elevation of the spillway is possible.

Clifty Creek-A dam across the valley of Clifty Creek in the N.E. 1/4 of Section 36, T. 13 S., R. 3 E., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 42 feet, a pool area of 540 acres, a storage of approximately 7,000 acre feet, and a watershed area of about 6.5 square miles.

The valley walls apparently would permit an increase in spillway elevation.

Cave Creek-A dam across the valley of Cave Creek in the N.E. 1/4 of Section 28, T. 13 S., R. 3 E., with spillway elevation at 400 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 560 acres, a storage of approximately 9,300 acre feet, and a watershed area of 5.75 square miles.

A somewhat higher elevation for the spillway is possible.

KANE COUNTY

There are a number of opportunities for the development of small lakes in this county in so far as topography goes. But on account of the many deposits of gravel and sand it might be a difficult matter to retain the water.

Also, the land is intensively used, therefore drainage is more in order than ponds.

KANKAKEE COUNTY

The topography of this county is such that few opportunities are presented for reservoir sites, except for small stock ponds.

KENDALL COUNTY

Because of its proximity to the metropolitan area of Chicago, Kendall County has become a highly developed agricultural area.

Many of the drainage systems have been improved with ditches and title lines so that reservoirs would not be possible, except perhaps in cases of farm ponds.

The rougher topography of the County is found along the banks of the Fox River where small farm or stock ponds are possible.

A small reservoir was developed on Blackberry Creek in connection with a state fish hatchery project. But at the present time the pond is little more than a widened part of the creek. Opportunity does exist, however, for the development of a small lake on this stream.

A dam constructed across the valley of the stream in the S.E. 1/4 of the S.W. 1/4 of Section 29, T. 37 N., R. 7 E., with spillway at elevation 610 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 120 acres, a storage of approximately 1,000 acre feet, and a watershed area of 71.4 square miles.

KNOX COUNTY

Several good reservoirs have already been constructed in this County near Galesburg. A study of other possible sites is limited because of a lack of topographical maps. There are a number of favorable sites available on the Court Creek system and the Walnut Creek system in the easterly and northeasterly part of the county respectively.

Sites are available on Haw Creek but this stream, or one of its tributaries, will eventually become the outlet for a sewerage system for Knoxville. Therefore, a reservoir site has not been considered for it.

Brush Creek-In addition to the present beautiful reservoir of the Chicago, Burlington and Quincy Railroad on Brush Creek, known as Lake Bracken, a site for a much larger lake is available further down stream.

A dam constructed across the valley of this stream near the center of Section 5, T. 9 N., R. 2 E., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of about 1,390 acres, a storage of approximately 27,800 acre feet, and a watershed of about 35.5 square miles.

A reservoir at this place could serve as a surface water supply for the three cities of Abingdon, Knoxville, and Galesburg.

LAKE COUNTY

There are so many natural lakes in Lake County that the construction of additional artificial reservoirs would seem unnecessary. Furthermore, the areas that might be developed into reservoir sites have in many cases been developed otherwise. Highways and railroads also would add many difficulties to such development.

There are many large estates in this County and these now enjoy a high degree of development. Because of all these factors, no proposed reservoirs are listed.

LASALLE COUNTY

Little Vermilion River-A dam across the valley of the Little Vermilion River in the N.W. 1/4 of Section 11, T. 33 N., R. 1 E., with spillway elevation at 580 feet would create a reservoir having a depth at the dam of about 84 feet, a pool area of about 640 acres, a storage of about 18,000 acre feet, and a watershed area of about 110 square miles.

Topographically, it appears possible to increase the spillway elevation.

This site should make a very acceptable reservoir since the valley walls are nearly vertical.

Cedar Creek-A dam across the canyon mouth of Cedar Creek in the N.E. 1/4 of Section 29, T. 33 N., R. 1 E., with spillway elevation at 560 feet, would create a reservoir having a pool area of about 220 acres, a depth at the dam of 100 feet, a storage of near 7,500 acre feet, and a watershed area of about 11 square miles.

Vermilion River-The Vermilion River occupies a canyon-like channel from its mouth at the Illinois River to well above the City of Streator. Within the 27 miles of channel below Streator the stream bed has a fall of about 100 feet, i. e., from elevation 550 feet to about 450 feet.

In the spring of 1933, there occurred on the river at Streator the greatest flood of record involving a discharge of 17,700 c. f. s. Floods of considerable volume occur more or less frequently, therefore considerable study would be required before a reservoir below Streator could be recommended.

Topographically, however, a very good site for a dam appears available in the N.E. 1/4 of Section 6, T. 32 N., R. 2 E. Stream elevation at the dam site is likely about 475 feet and it might be possible to establish spillway elevation at 525 feet.

Covel Creek-A dam constructed across the valley of Covel Creek in the S.E. 1/4 of Section 21, T. 33 N., R. 3 E., with spillway at elevation 560 feet, would create a reservoir having a pool area of about 640 acres, a depth at the dam of 100 feet, a storage of about 22,000 acre feet, and a watershed area of about 67 square miles.

Indian Creek-A dam constructed across the valley of Indian Creek near the center of Section 4, T. 34 N., R. 4 E., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 56 feet, a pool area of about 750 acres, a storage of approximately 14,000 acre feet, and a watershed area of about 240 square miles.

Bailey Creek-The lower portion of the Bailey Creek Valley is occupied by the Chicago, Burlington & Quincy Railroad, hence, it is not available for reservoir development. But just west of Tonica there appears to be a favorable site.

A dam across the valley of Bailey Creek near the center of Section 26, T. 32 N., R. 1 E., with spillway at elevation 670 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 384 acres, a storage of approximately 3,200 acre feet, and a watershed area of 10 square miles.

This would make a convenient water supply reservoir for Tonica.

Little Sandy Creek-A dam across the valley of Little Sandy Creek on the west line of Section 30, T. 31 N., R. 1 E. (on the line of the 3rd P. M.), with spillway at elevation 650 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 370 acres, a storage of approximately 3,080 acre feet, and a watershed area of about 18 square miles.

LAWRENCE COUNTY

The low surface relief of this County does not permit the development of economical reservoirs.

Small farm or stock ponds are possible in places.

LEE COUNTY

Only one topographical map is available and no reservoir sites are shown on it.

LIVINGSTON COUNTY

Vermilion River-Above Streator the stream channel of the Vermilion River has a much less rapid fall than it has for the stretch below the City. It is quite possible that detailed study might indicate that a reservoir of considerable storage would be feasible. Such a reservoir is desirable from the flood control standpoint as this stream is very flashy and floods of considerable volume are not infrequent. Topographically, there appears to be a site for a dam in the N.E. 1/4 of Section 12, T. 30 N., R. 3 E. With spillway at elevation 600 feet there would be 40 feet of storage at the dam.

LOGAN COUNTY

The Lincoln Quadrangle is the only topographical map in this County. No opportunities are indicated thereon for the location of reservoirs. In general, the land surface is lacking in relief.

McDONOUGH COUNTY

Baptist Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 4, T. 6 N., R. 4 W., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 230 acres, a storage of approximately 3,000 acre feet, and a watershed area of 7.8 square miles.

A reservoir at this location would very nicely serve the City of Blandinsville as a surface water supply.

Spring Creek-The City of Macomb has a municipal water supply reservoir on Spring Creek in Sections 15 and 16, T. 6 N., R. 3 W. The spillway elevation is 641 feet which provides about 18 or 19 feet of storage depth at the dam. The valley walls at the dam site would permit an increase in spillway height. The watershed area is sufficient to maintain a much larger storage than is now available.

East Fork of Crooked Creek-"Lamoine" River. The drainage of this stream embraces a considerable portion of the north part of the county. The valley walls, especially on the lower reaches, are rather sharp, while the uplands are rather flat.

A dam site for a reservoir on this stream appears feasible in the S.E. 1/4 of Section 17, T. 5 N., R. 4 W., (Tennessee Township). A dam at this point with spillway at elevation 580 feet would create a slack water for some 10 miles or more above the dam.

The reservoir so formed would have a depth at the dam of approximately 50 feet, a pool surface of 1,000 acres, a storage of about 16,000 acre feet, and a watershed area of some 220 square miles.

A number of the branches of this stream could be used for small farm or stock ponds.

In the northwest part of the county are some five streams, i. e., North Branch Crooked Creek, South Branch Crooked Creek, La-Harpe Creek, Little Creek, Baptist Creek; on which the watersheds above the County line vary from 10 to 15 square miles.

These streams are suitable for reservoir sites but the storage would be small.

Grindstone Creek-A dam constructed across the valley of Grindstone Creek in the S.W. 1/4 of Section 29, T. 4 N., R. 3 W., (Bethel Township) with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of about 80 feet, a pool area of about 1,750 acres, a storage of about 46,670 acre feet, and a drainage basin of about 47 square miles.

BUSHNELL

The city of Bushnell secures its public water supply from two wells penetrating the St. Peter Sandstone. The water is hard, highly mineralized and has a pronounced odor of hydrogen sulfide. A material improvement could be obtained through the adoption of a surface supply.

A conveniently located site appears available in the S.E. 1/4 of Section 30, T. 7 N., R. 1 E., Fulton County. With spillway at elevation 580 feet there would be created a reservoir having a depth at the dam of 30 feet, a pool area of 330 acres, a storage of approximately 3,300 acre feet, or 1,080,000,000 gallons, and a watershed area of 12.6 square miles.

The watershed area on a basis of 6 inches of run-off per acre per year should be capable of producing 4,032 acre feet or 1,300,000,000 gallons. This is considerably in excess of the estimated volume of storage, and far in excess of the annual needs for consumption and evaporation. A reservoir at this point for municipal purposes should have a storage of at least 500,000,000 gallons.

MCHEMRY COUNTY

This County is well supplied with natural lakes, all of which are used for recreational purposes. Many of the marsh lands have been included in drainage districts.

Nippersink Creek-This stream has a rather wide-flung drainage basin and a wandering channel. In about 1930, private interests constructed an artificial lake named Wonder Lake by placing a dam across the valley in the N.E. 1/4 of Section 6, McHenry Township, T. 45 N., R. 8 E. The pool formed has a surface area of about 835 acres. The property all about this lake has been or is to be subdivided for summer cottages.

Another opportunity to create a lake on this stream is afforded in Hebron and Alden Townships. A dam constructed across the valley in the S.W. 1/4 of Section 19, T. 46 N., R. 7 E., with spillway elevation at 950 feet, would create a lake having a pool area of about 1,750 acres, a depth at the dam of 40 feet, and a storage of about 23,330 acre feet.

The marsh area shown in Sections 11, 12, 13, 14 and 15, T. 46 N., R. 6 E., and Sections 6 and 7, T. 46 N., R. 7 E., would be completely flooded.

It appears that some drainage has been attempted in this marsh. The roadway of the so-called Kenosha branch of the Chicago & Northwestern Railway might have to be considered if a lake was developed at this point.

Such a lake might have some value from the standpoint of flood control but more likely its greatest value would be for recreational purposes.

MCLEAN COUNTY

Mackinaw River-The topographical maps only cover a comparatively small part of this county and the Mackinaw River drainage is the only one shown.

The City of Bloomington has a water supply reservoir on Money Creek so that nothing more can be developed on this branch of the River.

The Mackinaw River develops rather considerable floods at times and the topographical relief indicated on the quadrangle maps indicates that some flood control is possible.

A dam across the valley just above the mouth of Money Creek in the S.W. 1/4 of Section 35, T. 26 N., R. 2 E., with a spillway elevation at 700 feet, would develop a depth of water at the dam of 40 feet, extend the slack water pool some 12 miles upstream, form a pool area of some 2,250 acres, store approximately 30,000 acre feet, and have a watershed area of 283 square miles.

Six Mile Creek-A small reservoir could be developed on this stream within McLean County but it appears that a better site for the dam is to be found near the mouth over in Woodford County and one is so listed.

MACON COUNTY

This county is supplied with but one quadrangle map, the Decatur quadrangle.

Owing to the existence of Lake Decatur, it is doubtful if small reservoirs on the Lake tributaries would be of value. However, sites for small reservoirs are available on:

Spring Creek, Sand Creek, Tinley Creek, Big Creek, and Long Creek.

A small reservoir might also be developed on Stevens Creek northwest of Decatur.

MACOUPIN COUNTY

Big Apple Creek-The valley bottoms of this stream are rather broad and likely are rather extensively cultivated. Hence a reservoir on the stream would be quite expensive from the standpoint of land cost. However, a site appears available for a dam in the N.W. 1/4 of Section 7, T. 12 N., R. 9 W.

A dam across the valley at this location with spillway at elevation 540 feet would create a reservoir on Big Apple and Left Fork Apple Creeks having a depth at the dam of 30 feet, a pool area of 1,150 acres, a storage of about 11,000 acre feet, and a watershed of 42 square miles.

The valley walls at the proposed dam site would permit an increase in elevation of spillway to 570 feet or more if it was desired to provide complete flood control of the stream system.

Opportunities are available for smaller reservoirs on the upper branches of this drainage system in Morgan County.

Joes Creek-(*Joes* Creek is a branch of Hodges Creek which is discussed under "Greene County".)

A dam across Joes Creek valley in the N.E. 1/4 of the S.E. 1/4 of Section 8, T. 10 N., R. 9 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 850 acres, a storage of about 11,300 acre feet, and a watershed area of about 31 square miles.

A second dam site on this valley is available in the S.E. 1/4 of Section 22, T. 11 N., R. 9 W. A dam at this location, with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 450 acres, an approximate storage of 5,500 acre feet, and a watershed area of 15 square miles.

Solomon Creek-This stream is a tributary of the Hodges Creek system.

A dam across the valley of Solomon Creek in the S.W. 1/4 of Section 10, T. 10 N., R. 9 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 790 acres, an approximate storage of 11,850 acre feet, and a watershed area of 27 square miles.

Sites for smaller reservoirs are available further up this stream.

Bear Creek-This stream is part of the Hodges Creek system.

A dam across the valley of Bear Creek in the S.W. 1/4 of Section 35, T. 10 N., R. 9 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 490 acres, an approximate storage of 6,530 acre feet, and a watershed area of 26 square miles.

Lick Creek-This stream is part of the Hodges Creek system. A dam across this valley in the S.E. 1/4 of Section 22, T. 10 N., R. 9 W., with spillway at elevation 550 feet, would create a reservoir having a depth of water at the dam of 40 feet, a pool area of 390 acres, an approximate storage of 4,900 acre feet, and a watershed area of 12 square miles.

Otter and Massa Creeks-These two streams are a part of the Hodges Creek system.

A dam across the Otter Creek valley in the N.W. 1/4 of Section 6, T. 10 N., R. 8 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 1,800 acres, an approximate storage of 18,000 acre feet, and a watershed area of about 107 square miles.

Massa Creek-The City of Palmyra may at some future time desire a reservoir as a source of water supply. Two sites present themselves: (a) Solomon Creek north of the city and (b) on the upper part of Massa Creek. Because of the large development possible on Massa Creek a site on this stream was selected as a potential water supply reservoir for the city. A dam across the valley on the south line of Section 35, T. 12 N., R. 8 W., with spillway at elevation 620 feet, would create a reservoir having a depth of water at the dam of 35 feet, a pool area of 400 acres, an approximate storage of 4,700 acre feet and a watershed area of about 18 square miles.

Otter Creek-A dam site on upper Otter Creek in the N.E. 1/4 of Section 18, T. 11 N., R. 7 W., with spillway elevation at 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 1,150 acres, an approximate storage of 15,300 acre feet, and a watershed of about 54 square miles.

Macoupin Creek-The City of Carlinville secures its water supply from a small channel pool in Macoupin Creek created by a low channel dam across the stream south of the city.

Macoupin Creek is capable of providing a much larger supply than is now available.

A site for a dam appears in the S.W. 1/4 of Section 25 and the S.E. 1/4 of Section 26. A dam at this point with spillway at elevation 600 feet would create a reservoir having a depth at the dam of 50 feet, a pool area of 4,100 acres, an approximate storage of 68,300 acre feet, and a watershed area of about 165 square miles. Such a storage would have a pronounced effect on flood conditions below the dam.

The valley walls would permit a greater height of spillway and hence greater storage.

Coop Creek-A dam across the valley of Coop Creek near the N.W. corner of the S.W. 1/4 of Section 27, T. 9 N., R. 9 W., with spillway elevation at 540 feet, would create a reservoir having a depth of water at the dam of 40 feet, a pool area of 900 acres, a storage of approximately 12,000 acre feet, and a watershed area of about 52 square miles.

The valley walls would permit an increase in elevation of the spillway.

Dry Fork-A dam across the valley of Dry Fork at the north line of Section 35, T. 9 N., R. 8 W., with spillway at elevation of 560 feet, would create a reservoir having a depth at the dam of 38 feet, a pool area of 590 acres, a storage of approximately 7,470 acre feet and a watershed area of about 30 square miles. Topographically, the valley walls would permit an increase in elevation of the spillway.

Spanish Needle Creek-A dam across the valley of Spanish Needle Creek in the N.W. $\frac{1}{4}$ of Section 17, T. 9 N., R. 7 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 240 acres, a storage of approximately 2,400 acre feet, and a watershed area of about 16 square miles. Topographically, the valley walls would permit an increase in elevation of the spillway.

Honey Creek-A dam across the valley of Honey Creek in the N.W. $\frac{1}{4}$ of Section 10, T. 9 N., R. 7 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 38 feet, a pool area of 540 acres, a storage of approximately 6,500 acre feet, and a watershed area of about 25 square miles.

Cahokia Creek-A dam across the valley of Cahokia Creek in the north west corner of Section 17, T. 7 N., R. 6 W., with spillway at elevation 580 feet, would create a reservoir having a depth of water at the dam of 40 feet, a pool area of 1,180 acres, a storage of approximately 15,700 acre feet, and a watershed area of about 55 square miles.

Big Branch of Cahokia Creek-A dam across the valley of Big Branch in the S.E. $\frac{1}{4}$ of Section 13, T. 7 N., R. 7 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 230 acres, a storage of approximately 2,300 acre feet, and a watershed area of about 7 square miles.

Near the mouth of Big Creek the valley widens out as does the valley of Cahokia Creek, but a little below the junction of the two streams the valley narrows and several opportunities are afforded for a dam site whereby greatly increased storage would be possible. Such a development would be warranted only as a flood control measure.

West Fork of Cahokia Creek-A dam across the valley of West Fork Creek in the N.W. $\frac{1}{4}$ of Section 34, T. 7 N., R. 7 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 660 acres, a storage of approximately 8,200 acre feet, and a watershed area of about 14 square miles.

Sherry Creek-On the upper portions of both branches of Sherry Creek are opportunities for reservoirs up to perhaps 250 acre pool areas.

Paddock Creek-A small reservoir on Paddock Creek within this County is quite possible. But since a considerable quantity of drainage from the Municipality of Bunker Hill enters this stream, it would hardly be suitable for a water supply.

Indian Creek-A small reservoir within this County is possible on Indian Creek but since some drainage from Bunker Hill enters the stream it would hardly be satisfactory for a water supply.

East Fork of Wood River-A dam across the valley of Wood River in the N.E. $\frac{1}{4}$ of Section 21, T. 7 N., R. 8 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 300 acres, a storage of approximately 3,750 acre feet (1,226,000,000 gallons), and a watershed area of about

8 square miles. Such a reservoir is within one mile of the City of Bunker Hill and could serve as a water supply for that City. *Wood River-Opportunities* are available within the county for small reservoirs on the upper portions of the several branches of both the East and West Forks of Wood River.

MADISON COUNTY

In general the northerly portion of Madison County has the surface relief more sharply defined, hence, opportunities for reservoir sites are more frequently found therein.

Piasa Creek-A dam across the valley of Piasa Creek in the N.W. 1/4 of Section 19, T. 6 N., R. 10 W., with spillway at elevation 580 feet, would create a reservoir having a depth of water at the dam of 60 feet, a pool area of 2,140 acres, a storage of approximately 42,000 acre feet, and a watershed area of about 100 square miles.

(For smaller reservoirs on the upper reaches of Piasa and Little Piasa Creeks, see Jersey County.)

West Fork of Wood River-A dam across the valley of West Fork of Wood River in the S.E. 1/4 of Section 17, T. 6 N., R. 9 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 35 feet, a pool area of 370 acres, a storage of approximately 4,400 acre feet, and a watershed area of about 10 square miles.

Honeycut Branch-A dam across the valley of Honeycut Branch, a tributary of the West Fork of Wood River, in the south half of Section 16, T. 6 N., R. 9 W., with spillway at elevation 520 feet, would create a reservoir having a depth of water at the dam of 38 feet, a pool area of 420 acres, a storage of approximately 5,000 acre feet, and a watershed area of about 15 square miles.

East Fork of Wood River-A dam across the valley of the East Fork of Wood River in the S.W. 1/4 of Section 24, and the S.E. 1/4 of Section 23, T. 6 N., R. 9 W., with spillway elevation at 520 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 1,300 acres, a storage of approximately 21,000 acre feet, and a watershed area of 42 square miles.

Rocky Branch-A dam across the valley of Rocky Branch in the S.W. 1/4 of Section 36, T. 6 N., R. 9 W., with spillway elevation at 500 feet, would create a reservoir having a depth of water at the dam of 40 feet, a pool area of 330 acres, a storage of approximately 4,400 acre feet, and a watershed area of 8.5 square miles.

Indian Creek-A dam across the valley of Indian Creek in the N.E. 1/4 of Section 28, T. 6 N., R. 8 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 34 feet, a pool area of 450 acres, a storage of approximately 4,900 acre feet, and a watershed area of about 12 square miles.

Paddock Creek-A dam across the valley of Paddock Creek in the N.W. 1/4 of Section 2, T. 5 N., R. 8 W., with spillway at elevation 530 feet, would create a reservoir having a depth at the dam of 40 feet,

a pool area of 490 acres, a storage of approximately 6,500 acre feet, and a watershed area of about 16 square miles.

Sherry Creek-A dam across the valley of Sherry Creek in the south half of Section 20, T. 6 N., R. 7 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 34 feet, a pool area of 610 acres, a storage of approximately 6,700 acre feet, and a watershed area of about 24 square miles.

Cahokia Creek-A dam across the valley of Cahokia Creek in the N.E. 1/4 of Section 28, T. 6 N., R. 7 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 34 feet, a pool area of 2,820 acres, a storage of approximately 31,000 acre feet, and a watershed area of about 111 square miles.

(For reservoir on the upper reaches of this stream see Macoupin County.)

Sugat Creek-A dam across the valley of Sugar Creek on the south line of Section 35, T. 3 N., R. 5 W., with spillway elevation at 460 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 1,060 acres, a storage of approximately 6,400 acre feet, and a watershed of about 78 square miles.

The topography would permit a spillway elevation of 480 feet which would create a reservoir having a depth at the dam of 40 feet, a pool area of 4,100 acres, and an approximate storage of 55,000 acre feet.

Mill Creek-Mill Creek is a small tributary of Silver Creek in the southern part of Jarvis (T. 3 N., R. 7 W.) Township. A dam site appears available in Section 33. The elevation of the spillway would depend upon the use for which the reservoir was designed. The watershed which comprises about 6 square miles very likely would support a storage of 2,000 acre feet.

MARION COUNTY

dson Creek-A dam across the valley of Davidson Creek in the N.W. 1/4 of Section 21, T. 3 N., R. 1 E., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 510 acres, a storage of approximately 6,000 acre feet, and a watershed area of about 18 square miles.

The spillway elevation could be raised if there was an object in doing so.

Jims Creek-A dam across the valley of Jims Creek on the west line of Section 7, T. 3 N., R. 2 E., with spillway at elevation 530 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 610 acres, a storage of approximately 9,150 acre feet, and a watershed area of about 12 square miles.

Turkey Creek-A dam across the valley of Turkey Creek in the S.W. 1/4 of Section 32, T. 2 N., R. 1 E., with spillway at elevation 480 feet, would create a reservoir having a depth of 28 feet, a pool area of 840 res, a storage of approximately 7,500 acre feet, and a watershed area of 21 square miles.

This proposed lake would completely inundate the old Centralia water supply reservoir. It could, however, in addition to acting as a flood control project, serve as a new water supply reservoir for the City of Centralia. The shorter pipe line to the filter plant would reduce maintenance costs.

Raccoon Creek-A dam across the valley of Raccoon Creek in the N.E. 1/4 of Section 8, T. 1 N., R. 1 E., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 970 acres, a storage of approximately 9,000 acre feet, and a watershed area of about 48 square miles.

A reservoir at this site, unless contaminated with mine drainage, would be convenient as a water supply for the city of Centralia. Its nearness to the Filter Plant would reduce the cost of pipe line maintenance.

Crooked Creek-A dam across the valley of Crooked Creek in the N.E. 1/4 of Section 2, T. 1 N., R. 1 E., and in the S.E. 1/4 of Section 35, T. 2 N., R. 1 E., with spillway at elevation 490 feet, would create a reservoir having a depth at the dam of 32 feet, a pool area of 1,770 acres, a storage of approximately 17,700 acre feet, and a watershed of about 91 square miles.

The new reservoir for Centralia's water supply is on Martins Branch, a tributary of Crooked Creek. A spillway elevation of 490 feet would cause slack water up to about the foot of the spillway structure of the city reservoir (Lake Centralia).

The storage of Lake Centralia was not included in the total for the Crooked Creek reservoir, but the watershed area did include the total watershed area.

Salem-The City of Salem has a small municipal water supply reservoir, a branch of Crooked Creek, as also does the Chicago and Eastern Illinois Railroad. They are not on the same branch, however.

Should the occasion demand, it appears possible to select a dam site on Crooked Creek south and a few miles west of the city where a rather large reservoir could be maintained.

Dums and Bee Creek-Bee Creek is a tributary of Dums Creek. A dam across the valley of Dums Creek below the confluence of the two streams in the S.W. 1/4 of Section 32, T. 3 N., R. 4 E., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 1,270 acres, a storage of approximately 12,000 acre feet, and a watershed of 40 square miles.

Fulton Creek-A dam across the valley of Fulton Creek in the N.E. 1/4 of Section 32, T. 2 N., R. 4 E., with spillway at elevation 490 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 960 acres, a storage of approximately 12,800 acre feet, and a watershed area of about 15 square miles.

Point Rock Creek-A dam across the valley of Point Rock Creek in the N.E. 1/4 of Section 21, T. 1 N., R. 4 E., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 38 feet, a pool area of 720 acres, a storage of approximately 8,600 acre feet, and a watershed of about 15 square miles.

Skillet Fork-There appears to be a site for a dam on Skillet Fork in either Section 9 or 10, T. 3 N., R. 4 E., but the mapped area was not sufficient to permit a study of reservoir possibilities.

MARSHALL COUNTY

While Marshall County is not large there is considerable area that is not topographically mapped and for this reason it is not possible to make a study of the entire area.

Sandy Creek-There are no municipalities close enough to Sandy Creek to warrant the development of a water supply reservoir on this creek. Therefore, any storage on this stream would be for flood control or recreation.

A dam across the valley in the S.W. 1/4 of Section 2, T. 30 N., R. 2 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 95 feet, a pool area of 2,310 acres, a storage of 73,000 acre feet, and a watershed of about 140 square miles.

Judd Creek-A dam across the valley of Judd Creek in the N.W. 1/4 of Section 7, T. 30 N., R. 1 E., with spillway at elevation 650 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 160 acres, a storage of 2,130 acre feet, and a watershed area of 11 square miles.

Wenona Branch-A dam across the valley of Wenona Branch in the N.E. 1/4 of Section 15, T. 30 N., R. 1 E., with spillway at elevation 670 feet, would create a reservoir having a depth at the dam of 28 feet, a pool area of 83 acres, a storage of 700 acre feet, and a watershed area of 4 1/2 square miles.

The City of Wenona secures its water supply from wells which are low in yield. Therefore, a good surface reservoir would be a desirable solution to the water problem.

This is not an ideal reservoir as the surface area is large, but it has the advantage of being fairly close to the City.

It is quite possible that the topography may permit of some increase in storage.

Morgan Branch-A dam across the valley of Morgan Branch in the S.W. 1/4 of Section 1, T. 30 N., R. 1 E., and along the easterly side of U. S. Highway No. 51, with spillway elevation at 650 feet, would create a reservoir having a depth at the dam of 17 feet, a pool area of 160 acres, a storage of approximately 906 acre feet, and a watershed of about 11 1/2 square miles.

The slope of the Illinois River Bluffs is scored by many short gullies or hollows which could be used for small reservoir sites if occasion required. They would likely be too small to be of value in a program of flood prevention.

Crow Creek-A dam across the valley of Crow Creek in the N.W. 1/4 of Section 6, T. 13 N., R. 10 E., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,190 acres, a storage of approximately 24,000 acre feet, and a watershed area of about 50 square miles.

Little Crow Creek-A dam across the valley of Little Crow Creek in the S.E. 1/4 of Section 23, T. 13 N., R. 9 E., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 240 acres, a storage of approximately 6,000 acre feet, and a watershed area of about 10 square miles.

Thenius Creek-A dam across the valley of Thenius Creek in the south part of Section 11, T. 12 N., R. 9 E., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 250 acres, a storage of approximately 6,000 acre feet, and a watershed area of about 11 square miles.

Gimlet Creek-A dam across the valley of Gimlet Creek in the N.W. 1/4 of Section 14, T. 12 N., R. 9 E., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 200 acres, a storage of approximately 5,000 acre feet, and a watershed of about 5 square miles.

Senachwine Creek (See Peoria County)-A dam across the valley of Senachwine Creek in the S.E. 1/4 of Section 18, T. 12 N., R. 9 E., with spillway at elevation 670 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 390 acres, a storage of approximately 6,000 acre feet, and a watershed area of about 25 square miles.

MASON COUNTY

Within the area covered by topographic maps there appears to be no suitable site for a reservoir of merit.

There are, of course, many opportunities for small farm ponds on the gullies and hollows that score the bluff slopes along the easterly side of Crane Creek Valley and along the northerly side of the Sangamon River and Salt Creek valleys.

Sleepy Hollow-A dam across the valley of Sleepy Hollow in the S.E. 1/4 of Section 21, T. 20 N., R. 6 W., with spillway at elevation 610 feet, would create a very irregular shaped reservoir having a depth at the dam of 28 feet, a pool area of 685 acres, a storage of approximately 6,400 acre feet, and a watershed of about 5 square miles.

The estimated storage as given is likely in excess of the collectable run-off that would occur in a year.

MASSAC COUNTY

While the topographical relief is rather rugged between the Cashe River and the Ohio River, opportunities for sizeable reservoirs are few. Opportunities for small farms or stock ponds are many.

Georges Creek-A dam across the valley of Georges Creek in the S.W. 1/4 of Section 10, T. 14 S., R. 4 E., with spillway at elevation 380 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 780 acres, a storage of approximately 10,400 acre feet, and a watershed area of 8 1/2 square miles.

Massac Creek-A dam across the valley of Massac Creek in the N.W. 1/4 of Section 7, T. 15 S., R. 5 E., with spillway at elevation 400 feet,

would create a reservoir having a depth at the dam of 37 feet, a pool area of 1,020 acres, a storage of approximately 12,000 acre feet, and a watershed area of about 22 square miles.

MENARD COUNTY

Clarys Creek and Little Grove Creek-A dam across the valley of Clarys Creek in the N.W. 1/4 of Section 27, T. 19 N., R. 8 W., with spillway at elevation 530 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 945 acres, a storage of approximately 12,600 acre feet, and a watershed area of about 52 square miles.

Tar Creek-A dam across the valley of Tar Creek in the S.E. 1/4 of Section 7, T. 19 N., R. 7 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 225 acres, a storage of approximately 3,300 acre feet, and a watershed area of about 5 1/2 square miles.

Concord Creek-A dam across the valley of Concord Creek in the S.W. 1/4 of Section 23, T. 19 N., R. 7 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 410 acres, a storage of approximately 5,900 acre feet, and a watershed area of about 13 square miles.

Indian Creek-A dam across the valley of Indian Creek in the N.W. 1/4 of Section 6, T. 18 N., R. 6 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 450 acres, a storage of approximately 6,700 acre feet, and a watershed area of about 15 square miles.

Rock Creek-A dam across the valley of Rock Creek in the N.W. 1/4 of Section 9, T. 17 N., R. 6 W., with spillway at elevation 530 feet, would create a reservoir having a depth at the dam of 22 feet, a pool area of 95 acres, a storage of approximately 660 acre feet, and a watershed area of 10 1/2 square miles.

Halls Branch-A dam across the valley of Halls Branch in the N.E. 1/4 of Section 34, T. 18 N., R. 6 W., just above the north and south road, with spillway at elevation 550 feet, would create a small reservoir having a depth of 25 feet at the dam, a pool area of 50 acres, a storage of approximately 400 acre feet, or 120,880,000 gallons, and a watershed area of about 4 square miles.

This site is suggested as a water supply reservoir for the City of Athens. Town Branch on the south side of the city would be nearer but it receives the drainage of the city and hence would not be a desirable water course for a water supply reservoir.

The walls of the valley would permit an increase in elevation of the spillway if desired.

There are numerous opportunities for small farm or stock ponds on the side drainages flowing to the Sangamon River.

Sangamon River-From about 2 miles north of Petersburg the valley of the Sangamon River could be developed as a lake. Water could be backed up to about Springfield without apparent serious difficulties.

MERCER COUNTY

Eliza Creek, Site 1-A dam across the valley of Eliza Creek in the N.E. 1/4 of Section 29, T. 15 N., R. 5 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 410 acres, a storage of approximately 5,400 acre feet, and a watershed area of about 32 square miles.

Eliza Creek, Site 2-A dam across the valley in the S.E. 1/4 of Section 18, T. 15 N., R. 4 W., with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 440 acres, a storage of approximately 5,900 acre feet, and a watershed area of about 15 square miles.

Sites for small reservoirs appear available on Burnt Branch, Yankee Branch, Deerlick Branch, and Wood Fork, all tributaries of Eliza Creek.

Camp Creek-A dam across the valley of Camp Creek in the N.E. 1/4 of Section 27, T. 15 N., R. 4 W., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 720 acres, a storage of approximately 8,650 acre feet, and a watershed of about 43 square miles.

An increase in spillway elevation is possible.

Edwards River-That portion of Edwards River shown on the Alexis Quadrangle indicates a wide valley without satisfactory sites for a reservoir.

Pope Creek-A dam across the valley of Pope Creek in the S.E. 1/4 of Section 33, T. 14 N., R. 3 W., with spillway at elevation 640, would create a reservoir having a depth at the dam of 36 feet, a pool area of 1,360 acres, a storage of 16,300 acre feet, and a watershed area of about 100 square miles.

Many of the small tributaries afford opportunities for small farm and stock ponds, some of which might be of rather respectable size.

North Henderson Creek-A dam across the valley of North Henderson Creek at the west line of Section 21, T. 13 N., R. 2 W., with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of about 50 feet, a pool area of 1,110 acres, a storage of approximately 17,000 acre feet, and a watershed area of about 30 square miles.

MONROE COUNTY

Carr Creek-A dam across the valley of Carr Creek in the south half of Section 21, T. 1 S., R. 10 W., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 160 acres, a storage of approximately 1,500 acre feet, or 490,000,000 gallons, and a watershed area of about 7 1/2 square miles.

A reservoir at this site would supply water for the city of Columbia should it ever be desired. A somewhat greater storage than that given appears possible.

Fountain Creek-A dam across the valley of Fountain Creek in the S.W. 1/4 of Section 6, T. 2 S., R. 10 W., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,050 acres, a storage of approximately 20,000 acre feet, and a watershed area of about 56 square miles.

There are numerous hollows along the bluffs of the Mississippi River that could serve as reservoir sites. Such reservoirs, however, would be small.

Monroe City Hollow and Maeystown Creek are the larger of these but as both are occupied by roads they likely could not be developed for reservoir sites.

Horse Creek-A dam across the valley of Horse Creek in the S.W. 1/4 of Section 13, T. 4 S., R. 9 W., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 1,240 acres, a storage of approximately 18,900 acre feet, and a watershed area of 39 square miles.

Black Creek-The present water supply of the city of Red Bud is obtained from wells. The yield is insufficient at times and it may be that at some later date the city will resort to a surface supply. Opportunity for a surface reservoir is found on the north branch of Black Creek.

A dam across the valley in the N.W. 1/4 of Section 34, T. 3 S., R. 8 W., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 250 acres, a storage of approximately 1,550 acre feet, or 507,000,000 gallons, and a watershed area of 6 square miles.

Prairie Du Long Creek-This stream within Monroe County has rather a wide valley with gently sloping sides and for this reason satisfactory sites for dams to store considerable flood water are difficult to select.

Small reservoirs appear possible on Rockhouse, Walters, Kopp, and Gerhardt Creeks.

MONTGOMERY COUNTY

Opportunities for control of flood waters on Shoal Creek are favorable on its upper portion.

Shoal Creek, Site 1-A dam across Shoal Creek valley at the west line of Section 21, T. 7 N., R. 4 W., with spillway at elevation 560 feet, would create a very large reservoir having a depth at the dam of 40 feet, a pool area of some 20,000 acres, a storage of around 266,670 acre feet, and a watershed area of about 340 square miles.

The development of such a reservoir at this location likely would require the relocation of some 5 miles of line of the Big Four Railroad at a higher grade.

Shoal Creek, Site 2-A second reservoir appears possible on the upper portion of Shoal Creek.

A dam across the valley on the south line of Section 14, T. 9 N., R. 5 W., with spillway at elevation 620 feet, would create a

reservoir having a depth at the dam of 55 feet, a pool area of 2,640 acres, a storage of approximately 48,400 acre feet, and a watershed area of about 101 square miles.

Lack of topographical maps prevents the study of the eastern part of the county.

MORGAN COUNTY

Mud Creek-A dam across the valley of Mud Creek in the N.E. 1/4 of Section 1, T. 16 N., R. 12 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 200 acres, a storage of approximately 1,600 acre feet, and a watershed area of about 8¹/₂ square miles.

The valley walls would permit an increase in elevation of the spillway.

Little Indian Creek-A dam across the valley of Little Indian Creek in the N.E. 1/4 (close to east line) of Section 10, T. 16 N., R. 11 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 580 acres, a storage of approximately 7,730 acre feet, and a watershed area of 36 square miles.

The valley walls at the dam site suggested are capable of supporting a spillway at elevation of 540 feet. This would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,250 acres, and an approximate storage of 25,000 acre feet. The watershed area would of course remain the same, 36 square miles.

Coon Run-A dam across the valley of Coon Run in the S.W. 1/4 of Section 19, T. 16 N., R. 13 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 360 acres, a storage of approximately 4,500 acre feet, and a watershed of about 24 square miles.

The valley walls would permit an increase in spillway elevation.

A small reservoir sufficient to supply water for the small city of Concord could be created on the upper part of Coon Run by a dam across the valley in the N.W. 1/4 of Section 30, T. 16 N., R. 11 W. With spillway at elevation of 560 feet, the reservoir would have a depth at the dam of 18 feet, a pool area of 110 acres, a storage of approximately 660 acre feet, or 196,000,000 gallons, and a watershed area of 6 square miles.

There are opportunities for many small reservoirs along the bluff between Arenzville and Bluffs, but they would be of little use except as farm ponds.

Indian Creek-A dam across the valley of Indian Creek in the N.W. 1/4 of Section 25, T. 16 N., R. 11 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 2,140 acres, a storage of approximately 28,000 acre feet, and a watershed area of about 106 square miles.

The valley walls would permit the placing of the spillway at elevation 560 feet which in turn would give a depth at the dam of 60 feet, a pool area of 4,050 acres, and a storage of approximately 80,000 acre feet.

Small reservoirs are possible at a number of places on the smaller tributaries of Indian Creek.

Indian Creek valley is ideal for a reservoir. The floor is relatively flat, the stream slope is gentle, and the valley walls are sharp enough to confine the stored water.

The proximity of Jacksonville makes a development on this stream highly attractive not only for water supply purposes, but also for recreational purposes.

Mauvaise Terre Creek-A dam across the valley of Mauvaise Terre Creek in the west half of Section 18, T. 15 N., R. 11 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of about 38 feet, a pool area of 2,280 acres, a storage of approximately 28,880 acre feet, and a watershed area of 127 square miles.

Since the Jacksonville water supply reservoir is on the south branch of this stream, it likely would be better not to consider a reservoir at this point.

North Fork of Mauvaise Terre Creek-A dam across the valley of the North Fork of Mauvaise Terre Creek in the N.W. 1/4 of Section 14, T. 15 N., R. 10 W., with spillway at elevation 590 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 735 acres, a storage of 7,000 acre feet, or 2,290,000,000 gallons, and a watershed area of 51 square miles.

A reservoir at this location could serve as a supplemental supply to the present reservoir for the city of Jacksonville.

Sandy Creek-Small reservoirs are possible on the several branches of the Sandy Creek drainage system within Morgan County.

Coal Creek, (See Green County)-A dam across the valley of Coal Creek in the S.E. 1/4 of Section 30, T. 13 N., R. 10 W., with spillway at elevation 590 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 130 acres, a storage of approximately 1,200 acre feet, and a watershed area of about 7 square miles.

Lick Creek, (See Greene County)-A dam across the valley of Lick Creek in the S.W. 1/4 of Section 34, T. 13 N., R. 10 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 185 acres, a storage of approximately 1,800 acre feet, and a watershed area of about 8 1/2 square miles.

Little Apple Creek-A dam across the valley of Little Apple Creek in the S.E. 1/4 of Section 35, T. 13 N., R. 10 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 830 acres, a storage of approximately 16,600 acre feet, and a watershed area of 24 square miles.

Left Fork, Apple Creek-A dam across the valley of Left Fork, Apple Creek in the S.W. 1/4 of Section 21, T. 13 N., R. 9 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 360 acres, a storage of approximately 5,200 acre feet, and a watershed area of 18 square miles.

Woods Creek-A dam across the valley of Woods Creek in the S.W. 1/4 of Section 24, T. 13 N., R. 9 W., with spillway at elevation 600 feet,

would create a reservoir having a depth at the dam of 43 feet, a pool area of 375 acres, a storage of approximately 5,200 acre feet, and a watershed of about 19 square miles.

Apple Creek-A dam across the valley of Apple Creek in the S.E. 1/4 of Section 30, T. 13 N., R. 8 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 47 feet, a pool area of 1,280 acres, a storage of approximately 19,000 acre feet, and a watershed area of about 31 square miles.

MOULTRIE COUNTY

No topographical maps of this County are available to permit study of reservoir sites.

In general, the surface relief is low, but there very likely are opportunities for several reservoirs on Okaw Creek and the several tributaries of the Kaskaskia River.

OGLE COUNTY

There are few opportunities to develop reservoirs, other than farm ponds, in Ogle County.

The rougher sections of the county are along the Rock River and to the north and west of Byron and Oregon. In this latter area, there are numerous opportunities for farm or stock ponds.

PEORIA COUNTY

East Branch Copperas Creek (See Fulton County)-There are several sites for dams and reservoirs on the East Branch Copperas Creek, one of which was described under Fulton County.

The first site in Peoria County is in the N.E. 1/4 Section 18, T. 7 N., R. 6 E. Here a dam with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 620 acres, a storage of approximately 6,200 acre feet, and a watershed area of about 47 square miles.

An increase of 40 feet in elevation of spillway is possible if more complete regulation is desired.

Opportunities for smaller reservoir sites are available on the upper reaches of the various branches.

Little Lamarsh Creek-A dam across the valley of Little Lamarsh Creek in the N.E. 1/4 of Section 24, T. 7 N., R. 6 E., with spillway elevation at 540 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 100 acres, a storage of approximately 1,300 acre feet, and a watershed of about 4 1/2 square miles.

Lamarsh Creek-The drainage system of this stream consists of two principal branches; West Branch and East Branch Lamarsh Creek.

A dam across the valley just below the junction of the two branches in the S.E. 1/4 of Section 16, T. 7 N., R. 7 E., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 970 acres, a storage of approxi-

mately 16,200 acre feet, and a watershed area of about 40 square miles.

Opportunities occur on the upper reaches of both these streams for additional small reservoirs.

Johnson Run-A dam across the valley of Johnson Run at the east line of Section 25, T. 9 N., R. 6 E., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 180 acres, a storage of approximately 2,400 acre feet, and a watershed area of 11 1/2 square miles.

Sites for small reservoirs are available on the upper reaches of Warsaw Run, Nixon Run, and Clark Branch. The lower portion of these streams cannot be discussed for lack of maps covering the northerly part of the County.

Senachwine Creek (See Marshall County)-A dam across the valley of Senachwine Creek in the S.W. 1/4 of Section 6, T. 11 N., R. 9 E., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 1,000 acres, a storage of approximately 26,000 acre feet, and a watershed area of about 40 square miles.

Deer Creek-A dam across the valley of Deer Creek in the north part of Section 12, T. 11 N., R. 8 E., with a spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 450 acres, a storage of approximately 11,500 acre feet, and a watershed of about 16 square miles.

Henry Creek-A dam across the valley of Henry Creek in the S.E. 1/4 of Section 10, T. 11 N., R. 8 E., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 145 acres, a storage of approximately 2,200 acre feet, and a watershed area of 6 square miles.

PERRY COUNTY

Swanwick Creek-A dam across the valley of Swanwick Creek in the S.E. 1/4 of Section 23, T. 4 S., R. 3 W., with spillway at elevation 460 feet, would create a reservoir for flood control having a depth at the dam of 40 feet, a pool area of 2,130 acres, a storage of approximately 28,400 acre feet, and a watershed area of about 48 square miles.

Opossum Creek-A dam across the valley of Opossum Creek in the S.W. 1/4 of Section 11, T. 5 S., R. 3 W., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 230 acres, a storage of approximately 3,100 acre feet, and a watershed of about 5 1/2 square miles.

Beaucoup Creek-Measures for controlling flood waters on Beaucoup Creek are highly desirable but opportunities for creating large storage reservoirs are scarce. The first location for a dam seems to be in the S.W. 1/4 of Section 8 and the S.E. 1/4 of Section 7, T. 4 S., R. 2 W. At this point, a rather long dam is required, but with spillway at elevation 440 feet, the reservoir would have a depth

at the dam of 20 feet, a pool area of 1,350 acres, a storage of 9,000 acre feet, and a watershed of 110 square miles.

Little Beaucoup Creek-A dam across the valley of Little Beaucoup Creek in the S.E. 1/4 of Section 21, T. 4 S., R. 2 W., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 430 acres, a storage of approximately 3,500 acre feet, and a watershed area of about 17 square miles.

White Walnut Creek-A dam across the valley of White Walnut Creek in the west 1/2 of Section 3, T. 5 S., R. 2 W., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 660 acres, a storage of approximately 6,600 acre feet, and a watershed area of about 11 square miles.

Little Muddy River-The control of flood waters of the Little Muddy River is highly desirable. But reservoir sites wherein considerable storage is possible are not available.

A possible site for a dam is noted in the West 1/2 of Section 8, T. 5 S., R. 1 E. The elevation of the road bed of the Missouri Pacific Railroad some 5 miles upstream will be the controlling factor for spillway height.

It appears, however, that a spillway elevation of at least 430 feet could be secured. This would create a reservoir having a depth at the dam of about 27 feet, a pool area of 1,600 acres, a storage of approximately 15,000 acre feet, and a watershed area of about 110 square miles.

PIATT COUNTY

Topographical maps of this county are not available. In general, however, the surface relief is low and reservoir sites are not available except, perhaps, for small farm ponds an acre or two in area.

Sangamon River-In connection with a map study of a possible reservoir on the Sangamon River at, or near, Mahomet, it appears that there is a possible site, at least topographically, at Centerville.

A dam constructed across the valley of the river in the north half of Section 11, T. 19 N., R. 6 E., with spillway at 670 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 1,710 acres, a storage of approximately 11,400 acre feet, and a watershed area of 375 square miles.

Topographically, an increase of at least 10 feet in elevation of spillway is possible.

PIKE COUNTY

Twin Branches McKee Creek-Two small dams across the valleys of these two small streams near the south line of Section 17, and the north line of Section 20, T. 3 S., R. 2 W., with spillways at elevation 520 feet, would create two small reservoirs as follows: North Reservoir. Depth at dam 40 feet, pool area 220 acres, storage approximately 2,930 acre feet, and watershed about 2 1/2 square miles. South Reservoir. Depth at dam 40 feet, pool area 80 acres, storage approximately 950 acre feet, and watershed 1 1/4 square miles.

Middle Fork McKee Creek-A dam across the valley of Middle Fork McKee Creek in the S.E. 1/4 of Section 25, T. 3 S., R. 3 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,730 acres, a storage of approximately 34,600 acre feet, and a watershed of 52 square miles.

Topographically, an additional spillway height is possible.

South Fork McKee Creek-A dam across the valley of South Fork McKee Creek in the N.W. 1/4 of Section 31, T. 3 S., R. 2 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,630 acres, a storage of approximately 32,600 acre feet, and a watershed area of about 40 square miles.

Topographically, an additional height of spillway is possible.

Pigeon Creek (See Adams County)-It appears there is an equally good, if not better, site for a dam a half mile south of the county line. The only difference a change in dam location would make would be to increase both the pool area and the storage since spillway elevation could be maintained.

McCraney Creek (See Adams County)-A dam across the valley of McCraney Creek in the N.E. 1/4 of Section 14, T. 4 S., R. 7 W., with spillway at elevation 530 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 1,100 acres, a storage of approximately 18,000 acre feet, and a watershed of about 51 square miles. Topographically, a dam with spillway elevation at 600 feet could be built at this site. This is the same elevation proposed for the Adams County dam on this stream.

Beebe Creek (See Adams County)-A dam across the valley of Beebe Creek in the S.W. 1/4 of Section 16, T. 4 S., R. 6 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 75 feet, a pool area of 740 acres, a storage of approximately 19,000 acre feet, and a watershed of about 15 square miles.

A reservoir at this location would eliminate the Adams County reservoir unless the latter was wanted for recreational purposes.

Hadley Creek (See Adams County)-A dam across the valley of Hadley Creek in the S.W. 1/4 of Section 14, T. 4 S., R. 6 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,410 acres, a storage of approximately 29,000 acre feet, and a watershed of about 42 square miles.

Such a reservoir likely would eliminate the need for the small Adams County reservoir on the upper branches of this stream.

Topographically, a spillway elevation exceeding 600 feet may be secured at this Pike County site.

Kiser Creek-A dam across the valley of Kiser Creek in the S.E. 1/4 of Section 9, T. 5 S., R. 6 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 1,720 acres, an approximate storage of 47,000 acre feet, and a watershed of about 59 square miles.

Topographically, it is possible to increase the spillway elevation.

Hooton Creek-A dam across the valley of Hooton Creek in the N.E. 1/4 of Section 1, T. 6 S., R. 6 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 100 feet, a pool area of 780 acres, a storage of approximately 26,000 acre feet, and a watershed of about 14 square miles.

Topographically, it is possible to increase the spillway elevation.

Dutch Creek-A dam across the valley of Dutch Creek in the N.E. 1/4 of Section 7, T. 6 S., R. 5 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 740 acres, a storage of approximately 19,000 acre feet, and a watershed area of about 21 square miles.

Six Mile Creek, Site 1-A dam across the valley of Six Mile Creek in the N.W. 1/4 of Section 17, T. 7 S., R. 4 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 920 acres, a storage of approximately 18,000 acre feet, and a watershed of about 35 square miles.

Six Mile Creek, Site 2-A dam across the valley of Six Mile Creek, some three miles upstream from Site 1, in the S.W. 1/4 of Section 28, T. 6 S., R. 4 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 720 acres, a storage of approximately 14,000 acre feet, and a watershed area of about 22 square miles.

Bay Creek-The watershed area of Bay Creek above the bluff line is about 181 square miles.

While there is a considerable drainage basin the fact that it is long and narrow has some effect on the high water levels in the lower reaches of the stream.

The fact that the village of Nebo occupies a position out on the flood plain at a comparatively low elevation and also that the Chicago and Alton Railroad occupies a position in the center of the valley indicates that serious floods are unusual and that a flood control reservoir on the lower part of the valley is not necessary.

Pleasant Hill Creek-A dam across the valley of Pleasant Hill Creek (so-called for convenience) in the N.E. 1/4 of Section 22, T. 7 S., R. 4 W., with spillway elevation at 500 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 180 acres, a storage of approximately 2,400 acre feet, and a watershed area of about 5 square miles.

Honey Creek-A dam across the valley of Honey Creek along the south line of Section 30, T. 6 S., R. 3 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,540 acres, a storage of approximately 30,000 acre feet, and a watershed area of 38 square miles.

Bay Creek-A dam across the valley of Bay Creek in the S.E. 1/4 of Section 10, T. 7 S., R. 3 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 2,290 acres, a storage of approximately 38,170 acre feet, and a watershed of about 87 square miles. Topographically, an increase in spillway elevation is possible.

- Spring Creek-A* dam across the valley of Spring Creek in the S.W. 1/4 of Section 22, T. 7 S., R. 3 W., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 250 acres, a storage of approximately 3,000 acre feet, and a watershed of about 9 square miles.
- Little Blue Creek, Site 1-A* dam across the valley of Little Blue Creek in the N.W. 1/4 of Section 26, T. 5 S., R. 2 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 330 acres, a storage of approximately 5,500 acre feet, and a watershed of about 17 square miles.
- Little Blue Creek, Site 2-A* very good location for a second reservoir on this stream is found in the S.W. 1/4 of Section 21. A dam at this point, with spillway at elevation 560 feet, would create a small reservoir having a depth at the dam of 70 feet, a pool area of 250 acres, a storage of approximately 5,830 acre feet, and a watershed area of about 12 1/2 square miles.
- Blue Creek-A* dam across the valley of Blue Creek in the N.W. 1/4 of Section 4, T. 5 S., R. 2 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,530 acres, a storage of approximately 30,000 acre feet, and a watershed area of about 40 square miles.
- Fishhook Creek-A* reservoir of considerable size has been described under Adams County, however, a second reservoir on this same stream could be created by the construction of a dam across the valley near the southeast corner of the N.W. 1/4 of Section 30, T. 3 S., R. 4 W., with spillway elevation at 700 feet. Such a reservoir would have a depth at the dam of 25 feet, a pool area of 180 acres, a storage of approximately 1,500 acre feet, and a watershed area of 6.5 square miles.

POPE COUNTY

- Bay Creek-A* dam across the valley of Bay Creek in the S.W. 1/4 of Section 8, T. 12 S., R. 5 E., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 120 feet, a pool area of 900 acres, a storage of approximately 36,000 acre feet, and a watershed of about 24 square miles.
- A dam at about this point would be highly beneficial as this creek frequently covers the entire valley floor.
- Spillway elevation of 500 feet is the maximum that can be obtained.
- Hays Creek-A* dam across the valley of Hays Creek in the N.E. 1/4 of Section 30, T. 12 S., R. 5 E., with spillway elevation at 420 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 1,800 acres, a storage of approximately 30,000 acre feet, and a watershed area of 23 square miles.
- Sugar Creek-A* dam across the valley of Sugar Creek in the S.W. 1/4 of Section 20, T. 13 S., R. 5 E., with spillway at elevation 380 feet, would create a reservoir having a depth at the dam of 30 feet, a

pool area of 480 acres, a storage of approximately 5,000 acre feet, and a watershed area of about 15 square miles.

Robnett Creek-A dam across the valley of Robnett Creek in the south half of Section 12, T. 14 S., R. 5 E., with spillway at elevation 380 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 260 acres, a storage of approximately 2,500 acre feet, and a watershed area of about 11 square miles.

Lusk Creek, Site 1-A dam across the valley of Lusk Creek in the S.E. 1/4 of Section 14, T. 13 S., R. 6 E., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 3,600 acres, a storage of approximately 96,000 acre feet, and a watershed area of about 81 square miles.

A reservoir at this location would serve two purposes, (1) as a flood control project and (2) as a raw water supply for Golconda. The head which could be obtained would put raw water into the filter plant without pumping.

A reservoir at this location would be within the Shawnee Unit of the Federal Forest Preserve.

Lusk Creek, Site 2-A second site for a dam on Lusk Creek is found in the N.E. 1/4 of Section 10, T. 12 S., R. 6 E. With spillway at elevation 460 feet, there would be created a reservoir with a depth at the dam of 70 feet, a pool area of 780 acres, a storage of approximately 18,200 acre feet, and a watershed area of about 39 square miles.

The valley walls would permit an increase in elevation of spillway. A reservoir at this location would be within the Shawnee Unit of the Federal Forest Preserve.

Big Grand Pierre Creek, Site 1-A dam across the valley of Big Grand Pierre Creek at its mouth in the S.W. 1/4 of Section 34, T. 12 S., R. 7 E., and the N.W. 1/4 of Section 3, T. 13 S., R. 7 E., with spillway at elevation 360 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 2,580 acres, a storage of approximately 34,400 acre feet, and a watershed area of about 84 square miles.

Sites are available for smaller lakes on the upper tributaries of this stream.

Big Grand Pierre Creek, Site 2-A dam site to impound collectively the waters from the various head water streams is found on the south line of Section 22, T. 11 S., R. 7 E. A dam at this point, with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 2,830 acres, a storage of approximately 71,000 acre feet, and a watershed of about 37 square miles.

Both these reservoirs are within the limits of the Federal Forest Preserve.

PULASKI COUNTY

There are no reservoir sites of merit in this County.

PUTNAM COUNTY

Senachwine Creek-A dam across the valley of Senachwine Creek in the S.W. 1/4 of Section 18, T. 14 N., R. 10 E., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 80 feet, a pool area of 1,500 acres, a storage of approximately 39,000 acre feet, and a watershed area of about 32 square miles.

Clear Creek-A dam across the valley of Clear Creek in the N.W. 1/4 of Section 24, T. 31 N., R. 2 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 70 feet, a pool area of 540 acres, a storage of approximately 12,000 acre feet, and a watershed area of about 60 square miles.

Small reservoir sites appear to be available on the upper branches of this stream.

Small reservoirs are also possible on the short drainages along the river bluffs.

RANDOLPH COUNTY

Mill Creek-A dam across the valley of Mill Creek in the N.E. 1/4 of Section 24, T. 7 S., R. 6 W., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 930 acres, a storage of approximately 15,000 acre feet, and a watershed area of about 25 square miles.

Dry Creek-A dam across the valley of Dry Creek in the S.E. 1/4 of Section 12, T. 7 S., R. 6 W., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 240 acres, a storage of approximately 3,200 acre feet, and a watershed area of about 3 square miles.

Rockcastle Creek-A dam across the valley of Rockcastle Creek in the N.E. 1/4 of Section 31, T. 6 S., R. 5 W., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 160 acres, a storage of approximately 1,250 acre feet, and a watershed area of about 5 square miles.

Cox Creek-A dam across the valley of Cox Creek in the S.E. 1/4 of Section 22, T. 6 S., R. 5 W., with spillway at elevation 430 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 730 acres, a storage of approximately 5,800 acre feet, and a watershed area of about 30 square miles.

Little Mary River-A dam across the valley of Little Mary River in the east half of Section 4, T. 7 S., R. 6 W., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 42 feet, a pool area of 1,500 acres, a storage of approximately 21,000 acre feet, and a watershed area of about 71 square miles.

Nine Mile Creek-A dam across the valley of Nine Mile Creek near the center of Section 1, T. 6 S., R. 8 W., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 1,480 acres, a storage of approximately 19,000 acre feet, and a watershed of about 44 square miles.

Camp Creek-A dam across the valley of Camp Creek in the N.E. 1/4 of Section 22, T. 5 S., R. 8 W., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 220 acres, a storage of approximately 2,600 acre feet, and a watershed area of about 12 square miles.

Horse Creek (See Monroe County)-A dam across the valley of Horse Creek in the S.W. 1/4 of Section 12, T. 5 S., R. 8 W., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 2,650 acres, a storage of approximately 35,000 acre feet, and a watershed area of about 84 square miles.

Plum Creek-A dam across the valley of Plum Creek at the west line of Section 9, T. 5 S., R. 7 W., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 1,460 acres, a storage of approximately 17,000 acre feet, and a watershed area of about 90 square miles.

Branch of Plum Creek-A dam across the valley of this small branch of Plum Creek in the N.E. 1/4 of Section 3, T. 5 S., R. 6 W., with spillway at elevation 480 feet, would create a small reservoir, suitable for the municipal water supply reservoir at Sparta, having a depth at the dam of 30 feet, a pool area of 420 acres, a storage of approximately 4,000 acre feet, and a watershed area of about 41/2 square miles.

RICHLAND COUNTY

In general, the surface relief is not sufficient to provide much in the way of reservoir sites in this county.

Small farm or stock ponds are possible on many of the small branches of Bonpas Creek.

Likewise, the same is true of the Fox River.

ROCK ISLAND COUNTY

Copperas Creek, Site 1-A dam across the valley of Copperas Creek in the S. W. 1/4 of Section 20, T. 16 N., R. 5 W., of the 4th P. M. with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 1,050 acres, a storage of approximately 14,000 acre feet, and a watershed area of about 70 square miles.

Copperas Creek, Site 2-A dam across the valley of Copperas Creek on the west line of Section 17, T. 16 N., R. 4 W., 4th P.M., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 930 acres, a storage of approximately 11,000 acre feet, and a watershed area of about 43 square miles.

Big Branch-A dam across the valley of Big Branch in the S.W. 1/4 of Section 27, T. 17 N., R. 4 W., 4th P. M., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 100 acres, a storage of approximately 1,100 acre feet, and a watershed area of about 7 square miles.

Mill Creek-A dam across the valley of Mill Creek in the N.E. 1/4 of Section 25, T. 17 N., R. 2 W., 4th P. M., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 1,000 acres, a storage of approximately 20,000 acre feet, and a watershed area of about 64 square miles.

Case Creek-A dam across the valley of Case Creek in the S.E. 1/4 of Section 30, T. 17 N., R. 1 W., 4th P. M., with spillway elevation at 640 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 150 acres, a storage of approximately 1,400 acre feet, and a watershed area of about 13 1/2 square miles.

Coal Creek-A dam across the valley of Coal Creek in the N.E. 1/4 of Section 35, T. 17 N., R. 1 W., 4th P. M., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of 35 feet, a pool area of 190 acres, a storage of approximately 2,000 acre feet, and a watershed area of about 17 square miles.

Spillway elevation could be increased.

Shaffer Creek-A dam across the valley of Shaffer Creek in the S.W. 1/4 of Section 24, T. 17 N., R. 1 W., 4th P. M., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 145 acres, a storage of approximately 2,800 acre feet, and a watershed area of about 7 square miles.

Small reservoirs are possible on many of the tributaries of Copperas and Mill Creek.

Also many small reservoirs are possible on short streams flowing into the Rock River, such as: Heck Hollow, Coal Creek, Hills Creek, Fancy Creek, Warren Creek, Sand Creek, Kyte Creek, and Sheldon Creek.

ST. CLAIR COUNTY

Hickman Creek-A dam across the valley of Hickman Creek in the S.W. 1/4 of Section 19, T. 1 N., R. 9 W., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 200 acres, a storage of approximately 2,000 acre feet, and a watershed area of about 12 1/2 square miles.

North Branch Prairie du Pont Creek-A dam across the valley of the North Branch of Prairie du Pont Creek in the S.E. 1/4 of Section 16, T. 1 N., R. 9 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 200 acres, a storage of approximately 3,000 acre feet, and a watershed area of about 4 1/2 square miles.

Prairie du Pont Creek-A dam across the valley of Prairie du Pont Creek in the north half of Section 27, T. 1 N., R. 9 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 35 feet, a pool area of 120 acres, a storage of approximately 1,400 acre feet, and a watershed area of about 8 square miles..

Ogles Creek-A dam across the valley of Ogles Creek in the north half of Section 4, T. 2 N., R. 7 W., with spillway elevation at 500 feet, would create a reservoir having a depth at the dam of 42 feet, a

pool area of 540 acres, a storage of approximately 7,000 acre feet, and a watershed area of about 15 square miles.

Rock Spring Branch-A dam across the valley of Rock Spring Branch on the west line of Section 22, T. 2 N., R. 7 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 150 acres, a storage of approximately 1,500 acre feet, and a watershed area of about 6 square miles.

Prairie du Long Creek-A dam across the valley of Prairie du Long Creek in the N.W. 1/4 of Section 25, T. 2 S., R. 9 W., with spillway at elevation 470 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 900 acres, a storage of approximately 9,000 acre feet, and a watershed area of about 37 square miles.

West Fork Richland Creek, Site 1-A dam across the valley of Richland Creek in the S.W. 1/4 of Section 5, T. 2 S., R. 8 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 500 acres, a storage of approximately 6,500 acre feet, and a watershed area of about 19 1/2 Square miles.

West Fork Richland Creek, Site 2-A dam across the valley of Richland Creek in the N.E. 1/4 of Section 27, T. 1 S., R. 9 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 170 acres, a storage of approximately 2,100 acre feet, and a watershed area of about 7 square miles.

Richland Creek-See Monroe County.

SALINE COUNTY

Galatia Branch, Middle Fork, Saline River-A dam across the valley of Galatia Branch (so called for convenience) of the Middle Fork of the Saline River in the S.W. 1/4 of Section 7, T. 8 S., R. 6 E., with spillway at elevation 410 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 250 acres, a storage of approximately 1,670 acre feet, and a watershed area of about 6.0 square miles. Field inspection might prove that an additional height of spillway is possible.

Gassoway Creek-A dam across the valley of Gassoway Creek in the N.E. 1/4 of Section 2, T. 8 S., R. 5 E., with spillway at elevation 430 feet, would create a reservoir having a depth at the dam of 27 feet, a pool area of 260 acres, a storage of approximately 1,820 acre feet, and a watershed area of about 4.1 square miles.

Either of the two above suggested reservoirs. are sufficient to serve the City of Galatia as a raw water supply.

South Fork of Saline River-A dam across the valley of the South Fork of the Saline River in the N.E. 1/4 of Section 19, T. 10 S., R. 5 E., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 3,140 acres, a storage of approximately 20,950 acre feet, and a watershed area of about 151 square miles. This would be useful as a flood control measure. The tracks of the Edgewood cutoff, Illinois Central Railroad might interfere with the development of this lake.

Little Saline River-A. A dam across the valley of Little Saline River in the S.E. 1/4 of Section 34, T. 10 S., R. 5 E., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 660 acres, a storage of approximately 6,600 acre feet, and a watershed area of about 26.9 square miles.

B. The topography indicates that a much higher dam and spillway is possible. With spillway at elevation 500 feet there would be created a reservoir having a depth at the dam of 110 feet, a pool area of 3,300 acres, a storage of 122,200 acre feet, and the same watershed as for A. namely 26.9 square miles. A reservoir at this site would be desirable for recreational purposes. The Edgewood cutoff line of the Illinois Central Railroad would influence the extent of the project.

Battle Ford Creek-A dam across the valley of Battle Ford Creek in the S.W. 1/4 of Section 28, T. 10 S., R. 6 E., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 90 feet, a pool area of 510 acres, a storage of approximately 15,300 acre feet, and a watershed area of about 9.3 square miles.

Blackman Creek-A dam across the valley of Blackman Creek near the northeast corner of Section 27, T. 10 S., R. 6 E., with spillway at elevation 430 feet, would create a reservoir having a depth at the dam of 54 feet, a pool area of 270 acres, a storage of approximately 4,860 acre feet, and a watershed area of about 3.9 square miles.

Mud Springs Hollow-A dam across the valley of Mud Springs Hollow near the south line of the S.W. 1/4 of Section 24, T. 10 S., R. 6 E., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of 60 feet or more, a pool area of 290 acres, a storage of approximately 5,800 acre feet, and a watershed area of about 4.7 square miles.

Lockwood Hollow-A dam across the valley of Lockwood Hollow in the S.W. 1/4 of Section 19, T. 10 S., R. 7 E., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 20 acres, a storage of approximately 270 acrefeet, and a watershed area of about 0.9 square miles. If required, and the run off would support it, a still deeper pool is possible.

Sadler School Hollow-A dam across the valley of this stream in the S.E. 1/4 of Section 19, T. 10 S., R. 7 E., with spillway at elevation 460 feet would create a reservoir having a depth at the dam of 60 feet, a pool area of 38 acres, a storage of about 760 acre feet, and a watershed area of about 1.3 square miles.

Hatrock Hollow-A dam across the valley of Hatrock Hollow in the N.W. 1/4 of Section 20, T. 10 S., R. 7 E., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 100 acres, a storage of approximately 2,000 acre feet, and a watershed area of about 1.6 square miles. The topography would support a deeper pool.

Eagle Creek-A dam across the valley of Eagle Creek in the N.E. 1/4 of Section 23, T. 10 S., R. 7 E., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of about 54 feet,

a pool area of 740 acres, a storage of approximately 13,320 acre feet, and a watershed of about 8.3 square miles. If the dam site were moved about a mile up stream a much deeper lake could be obtained.

A considerably larger lake than the above can be developed by the construction of a dam across Eagle Creek near the south line of the S.W. 1/4 of Section 7, T. 10 S., R. 8 E. (Gallatin County).

Horseshoe Hollow-A dam across the valley of this stream about on the south line of the N.E. 1/4 of Section 36, T. 9 S., R. 7 E., with spillway crest at elevation 400 feet, would create a reservoir having a depth at the dam of about 40 feet, a pool area of 830 acres, a storage of approximately 11,080 acre feet, and a watershed area of about 3.9 square miles. The watershed area is small for the size of the lake, but a material assistance could be provided by making either or both of the secondary embankments on the large Eagle Creek Reservoir as spillways and thus permit the Eagle Creek overflow to discharge into Horseshoe.

SANGAMON COUNTY

Clear Creek-The easterly portion of Sangamon County has not been topographically mapped, hence it is not possible to make definite suggestion as to dam locations in Clear Creek. However, this stream has a well-defined valley and no doubt a site for a dam may be found near its mouth, say in Section 31, T. 16 N., R. 3 W. Here it is quite likely a depth of at least 20 feet may be obtained. The pool area likely would be about 700 acres and the storage approximately 4,300 acre feet. The drainage area is about 55 square miles.

Wolf Creek-A dam across the valley of Wolf Creek at the southwest corner of Section 34, T. 17 N., R. 4 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 760 acres, a storage of approximately 5,070 acre feet, and a watershed area of about 58 square miles. Spillway elevation likely could be raised 10 or even 20 feet with a corresponding increase in the lake size and capacity.

Pool area spillway crest 560=2,600 acres.

No Name Creek-A dam across the valley of a small water course in the S.W. 1/4 of Section 33, T. 17 N., R. 4 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 100 acres, a storage of approximately 670 acre feet, and a watershed area of about 6.5 square miles.

Fancy Creek-A dam across the valley of Fancy Creek near the north line of Section 31, T. 17 N., R. 4 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of about 25 feet, a pool area of 640 acres, a storage of approximately 5,100 acre feet, and a watershed area of about 38.5 square miles. The topography apparently would permit an increase in spillway elevation.

Cantrall Creek-A dam across the valley of Cantrall Creek in the S.E. 1/4 of Section 26, T. 17 N., R. 6 W., with spillway at elevation 540

feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 420 acres, a storage of approximately 5,400 acre feet, and a watershed area of about 21.2 square miles.

Spring Creek-A dam constructed across the valley of Spring Creek in the N.E. 1/4, Section 25, T. 16 N., R. 6 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of about 27 feet, a pool area of 820 acres, a storage of approximately 7,400 acre feet, and a watershed area of 110.5 square miles. The topography apparently would permit raising the spillway elevation to 560 or perhaps some higher. Opportunities for smaller reservoirs on the upper reaches of the creek and its tributaries are presented.

Sugar Creek, Lake Springfield-Lake Springfield, the new source of water supply for the City of Springfield, has a dam on Sugar Creek in Section 12, T. 15 N., R. 5 W. There are opportunities for smaller reservoirs on the upper reaches of Sugar Creek above slack water of the pool, which elevation is 560 feet. Such reservoirs might be of value as silt retention units.

Horse Creek-A dam constructed across the valley of Horse Creek in the N.E. 1/4 Section 31, T. 15 N., R. 4 W., with spillway at elevation 560 feet, would create a reservoir with a depth at the dam of about 35 feet, a pool area of about 1,870 acres, a storage of approximately 21,800 acre feet, and a watershed area of some 131.0 square miles. The location of the dam is as far down stream as appears possible from the topographical map, so that this reservoir may be combined with Lake Springfield if necessary. A somewhat higher spillway is possible. There are opportunities for smaller reservoirs on both Horse Creek and its principal tributary Brush Creek.

Lick Creek-Lick Creek is the principal tributary to Sugar Creek. When Lake Springfield is full to spillway elevation (560 feet) slack water extends upstream in Lick Creek to about the Chicago and Northwestern Railway Bridge some three miles westerly of the village of Chatham. About a mile and a quarter upstream from the Railway bridge there appears to be a very good site for a considerable reservoir. A dam constructed across the valley of Lick Creek in the N.E. 1/4 of Section 5, T. 14 N., R. 6 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of about 35 feet, a pool area of 2,220 acres, a storage of approximately 24,400 acre feet, and a drainage area of about 98 square miles.

Richland Creek-A dam constructed across the valley of Richland Creek in the N.E. 1/4 of Section 28 and the S.E. 1/4 Section 21, T. 17 N., R. 6 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of about 55 feet, a pool area of 2,160 acres, a storage of approximately 38,900 acre feet, and a watershed area of 86.9 square miles. This reservoir might be designed for recreational and flood control purposes. The topography would permit a higher elevation of spillway.

SCHUYLER COUNTY

From Beardstown northeasterly up the Illinois River Valley to the Fulton County line the topography is very rugged and many opportunities are afforded for reservoirs of almost any size. Because of this only those of prominence have been selected for description.

Elm Creek-This stream discharges into the Illinois River bottom at Sheldon's Grove. The relief is rugged and a dam constructed across the valley in the S.W. 1/4 Section 4, T. 2 N., R. 2 E., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of about 60 feet, a pool area of about 200 acres, a storage of approximately 4,000 acre feet, and a watershed area of 7.7 square miles. The topography would permit of a considerable increase in the elevation of spillway. Between Sheldon's Grove and Browning are many opportunities for small ponds on water courses without names. Between Browning and the mouth of Sugar Creek are two streams on which could be developed nice little ponds, i.e. Dutchman's Creek and Friddle Branch. The lower portion of the valley of Dutchman's Creek and its north branch are occupied by the Chicago, Burlington & Quincy Railroad so that any development on this creek would, of necessity, be above the junction of the creek and its north branch or in the S.E. 1/4 of Section 15, T. 2 N., R. 1 E.

Dutchman's Creek-A dam constructed across the valley at this location with spillway at elevation 520 feet would create a reservoir having a depth at the dam of about 45 feet, a pool area of about 90 acres, a storage of approximately 1,350 acre feet, and watershed area of 2.8 square miles.

Friddle Branch-A dam constructed across the valley of Friddle Branch in the S.W. 1/4 Section 27, T. 2 N., R. 1 E., with spillway at elevation 520 feet would create a reservoir having a depth at the dam of about 60 feet, a pool area of about 230 acres, a storage of approximately 4,600 acre feet, and a drainage area of 3.3 square miles.

Sugar Creek-The Chicago, Burlington & Quincy Railroad occupies the valley of Sugar Creek for several miles above its mouth but at an elevation sufficiently high to permit the development of a fine large lake on the stream. A dam constructed across the valley in the north half of Section 5, T. 1 N., R. 1 E., with spillway at elevation 500 feet, would create a reservoir some nine miles or more in length with a very irregular shore line. Such a reservoir would have a depth at the dam of about 60 feet, a pool area of about 2,550 acres, a storage of approximately 51,000 acre feet, and a watershed area of 162 square miles. Two reservoirs as water supply sources for Table Grove and Vermont are listed in McDonough County. A fourth reservoir could be created by the construction of a dam across the valley in the S.W. 1/4 Section 3, T. 3 N., R. 1 W. With spillway at elevation 560 feet, the depth at the dam would be about 36 feet, the pool area about 450 acres, the storage approximately 5,400 acre feet, and the watershed area would be 33.8 square miles. The topography would permit raising the spill-

way elevation to 580 feet and thus eliminate the small pool previously described for Vermont.

Tributaries of Sugar Creek-Richie Branch, Boeur Branch, West Branch, Rich Branch, Tolans Branch, Snakeden Branch, Scab Hollow, Harris Branch, and Gaines Branch all afford good opportunities for small reservoirs.

Coal Creek-This is a small stream but the topography within the watershed boundaries is rugged and run-off likely is rapid and of a high rate. A dam across the valley of this stream in the southeast part of the N.E. 1/4 of Section 13, T. 1 N., R. 1 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of about 50 feet, a pool area of 80 acres, a storage of approximately 1,330 acre feet, and a watershed area of 2.8 square miles.

Crane Creek-A dam across Crane Creek in the N.W. 1/4 of Section 28, T. 1 N., R. 1 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of about 50 feet, a pool area of about 1,070 acres, storage of approximately 17,800 acre feet, and a watershed area of 34.4 square miles. The topography will admit of a spillway elevation of 520 feet or even higher. Since the stream would be polluted by the Rushville sewage, this reservoir could only be used for flood control.

East Fork, Crane Creek-A dam across the valley of this stream in the N.W. 1/4 of Section 20, T. 1 N., R. 1 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of about 45 feet, a pool area of about 460 acres, and a storage of about 6,900 acre feet (2,250,000,000 gallons). The drainage area of 13.9 square miles is of adequate size to maintain the reservoir when once it is filled, though it might require more than a year to fill. The valley walls would likely permit an increase of 20 feet in depth. However, an increase in storage to 540 foot pool elevation will require some time to fill. When once filled the watershed is sufficient to maintain it.

Head Waters of Crane Creek-Just to the east of the City of Rushville, Highway No. 67 crosses the valley of this part of Crane Creek. At this point the two forks of Crane Creek are carried through the roadway fill in separate culverts. South of the present highway some 500 or 600 feet is the old embankment on the original alignment of route 67. This old embankment could be made to serve as the core of an enlarged dam at this point. With spillway at elevation 620 feet there would be created a reservoir having a depth at the dam of about 30 feet, a pool area of some 70 acres, a storage of approximately 700 acre feet (228,000,000 gallons), and a watershed area of about 4.5 square miles.

Town Branch-A dam across the valley of this stream in the S.W. 1/4 of Section 26, T. 1 N., R. 2 W., with spillway at elevation 500 feet, would create a pool having a depth at the dam of about 45 feet, an area of 410 acres, and a storage of about 6,150 acre feet. The watershed area is about 14.6 square miles and is sufficient to easily maintain such a reservoir after it has been filled. The topography would permit an increased height of the spillway.

Town Branch-A dam across the valley of this stream in the S.W. 1/4 Section 24, T. 1 N., R. 2 W., with spillway at elevation 520 feet, would create a reservoir having a depth of about 40 feet at the dam, a pool area of about 260 acres, a storage of approximately 3,380 acre feet, and a drainage area of 10.0 square miles. This area will easily maintain the reservoir outlined when once filled. The topography would permit an increase in spillway elevation.

Town Branch-A dam across the valley of this stream in the north part of Section 24, T. 1 N., R. 2 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 160 acres, a storage of about 1,600 acre feet, about 500,000,000 gallons. The drainage area is about 8.9 square miles. The watershed area is probably sufficient to maintain a much larger storage than outlined. The topography would permit raising the spillway to elevation 540 feet. At this elevation the pool area would be approximately 350 acres, the depth at the dam about 50 feet, and the storage some 5,830 acre feet, or about 1,700,000,000 gallons. A reservoir of this capacity might require 2 years to fill if precipitation was only normal or less. The run-off is sufficient, however, to maintain the lake when it once has filled. This is likely the most satisfactory site, all things considered, for a municipal water supply reservoir for the City of Rushville. A reservoir of good size can be developed, the watershed is sufficient, pollution from Rushville can be eliminated, and the dam is fairly close to an existing pipe line from McElho branch to the City.

Town Branch-A dam across the valley of this stream on the south line of Section 12, T. 1 N., R. 2 W., with spillway elevation at 540 feet, would create a reservoir having a depth at the dam of about 25 feet, a pool area of 100 acres, a storage of about 800 acre feet, or about 250,000,000 gallons, and a drainage basin area of 5.3 square miles. The topography will permit an increase in spillway elevation.

Horney Creek-A dam across the valley of this stream in the S.W. 1/4 of Section 27, T. 2 N., R. 2 W., with spillway elevation at 580 feet, would create a reservoir having a depth at the dam of about 35 feet, a pool area of 60 acres, a storage of about 720 acre feet, and a watershed area of 5.0 square miles. Topographically, an increase in elevation of spillway is possible. The watershed area is sufficient to maintain a considerably larger storage. Leakage through stratified rocks is a possible unfavorable feature.

Horney Creek-A dam across the valley of this stream in the N.W. 1/4 of Section 4, T. 1 N., R. 2 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of about 30 feet, a pool area of 190 acres, a storage of about 1,900 acre feet, and a watershed basin of 8.1 square miles. Coal is mined occasionally at points in the valley above the proposed dam site. Stratification of this and associated material might prevent making a tight reservoir.

Horney Creek-A dam across the valley of this stream near the center of Section 6, T. 1 N., R. 2 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of about 50

feet, a pool area of 470 acres, a storage of approximately 7,830 acre feet, and a watershed area of about 12.9 square miles. The topography would permit the raising of the spillway elevation considerably.

Ryan Branch-A dam across the valley of this stream in the N.E. 1/4 of Section 6, T. 1 N., R. 2 W., with-spillway at elevation 520 feet, would create a reservoir having a depth at the dam of about 45 feet, a pool area of 410 acres, a storage of approximately 6,150 acre feet, and a watershed area of 9.0 square miles.

Stoney Creek-A dam constructed across the valley of this stream in the S.E. 1/4 Section 18, T. 2 N., R. 2 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of about 50 feet, a pool area of 240 acres, a storage of approximately 4,000 acre feet, and a watershed area of about 13.3 square miles.

Brushy Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 13, T. 2 N., R. 3 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of about 38 feet, a pool area of 370 acres, a storage of about 4,690 acre feet, and a watershed area of about 11.7 square miles.

Spring Creek-A dam constructed across the valley of this stream in the northern part of Section 11, T. 2 N., R. 3 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of about 42 feet, a pool area of 120 acres, a storage of approximately 1,680 acre feet, and a watershed area of about 3.3 square miles.

Missouri Creek-Topographical maps are not available for the study of the major portion of this stream. But a very favorable dam site is indicated in the S.W. 1/4 of Section 34, T. 2 N., R. 3 W. A spillway elevation of at least 520 feet is possible. This would give a depth at the dam of about 50 feet.

Fowler Branch-A dam constructed across the valley of this stream in the S.E. 1/4 Section 22, T. 3 N., R. 3 W., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of about 55 feet, a pool area of 120 acres, a storage of approximately 2,200 acre feet, and a watershed area of about 6.3 square miles.

Honey Branch-A dam constructed across the valley of this stream near the north line of Section 22, T. 3 N., R. 3 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of about 50 feet, a pool area of 210 acres, a storage of approximately 3,500 acre feet, and a watershed area of about 10.0 square miles.

Willow Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 9, T. 3 N., R. 3 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of about 45 feet, a pool area of 230 acres, a storage of approximately 3,450 acre feet, and a watershed area of about 7.4 square miles.

Flour Creek-A dam constructed across the valley of this stream at the village of Birmingham in Section 11, T. 3 N., R. 4 W., with spillway at elevation 520 feet, would create a reservoir having a

depth at the dam of about 36 feet, a pool area of about 530 acres, a storage of approximately 6,360 acre feet, and a watershed area of about 53 square miles.

Crooked Creek-This stream is discussed under Brown County.

SCOTT COUNTY

Eagle Run-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 3, T. 15 N., R. 13 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of about 60 feet, a pool area of 160 acres, an approximate storage of 3,200 acre feet, and a watershed area of about 3.9 square miles. This reservoir would be used for recreation and stream control.

Mauvaise Terre Creek-A dam constructed across the valley of this stream near the east line of Section 33, T. 15 N., R. 13 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of about 60 feet, a pool area of 820 acres, a storage of approximately 16,400 acre feet, and a watershed area of about 144.5 square miles.

Willow Branch-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 24, T. 15 N., R. 12 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of about 30 feet, a pool area of about 290 acres, a storage of approximately 2,900 acre feet, and a watershed area of 17.6 square miles.

Plum Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 16, T. 14 N., R. 13 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 640 acres, a storage of approximately 12,800 acre feet, and a watershed area of about 22.2 square miles.

Walnut Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 26, T. 14 N., R. 13 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of about 45 feet, a pool area of 510 acres, a storage of approximately 7,650 acre feet, and a watershed area of 20.5 square miles. The topography would permit raising the spillway elevation by as much as 20 feet.

Sandy Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 23, T. 13 N., R. 13 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of about 50 feet, a pool area of 2,700 acres, a storage of approximately 45,000 acre feet, and a watershed area of 132.8 square miles.

A second reservoir on this same stream could be created by the construction of a dam across the valley of the creek in the N.E. 1/4 of Section 28, T. 14 N., R. 12 W. With spillway at elevation 520 feet, there would be created a reservoir having a depth at the dam of about 30 feet, a pool area of 820 acres, a storage of approximately 8,200 acre feet, and a watershed area of about 65.5 square miles. Since this site is close to the City of Winchester, the reservoir would

furnish a convenient surface water supply if the city should require one.

Opportunities occur on the numerous branches of this stream for many smaller reservoir developments. This applies particularly to Little Sandy Creek.

Little Sandy Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 31, T. 13 N., R. 12 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of about 60 feet, a pool area of 700 acres, a storage of approximately 14,000 acre feet, and a watershed area of about 24.7 square miles.

SHELBY COUNTY

Kaskaskia River Watershed-Topographical maps of sufficient accuracy for estimating reservoir locations and capacities are lacking for this county, but it is known that on Becks Creek and its tributaries there are several sites that might be quite satisfactory.

Satisfactory sites appear to be available on Brush Creek, Richland Creek, Jordan Creek, and Robinson Creek.

It is also known that a site is available, just north of the City of Shelbyville, for a dam and the creation of large storage reservoir. There may be some sites on the Little Wabash River and its tributaries. One such site is indicated in the Mattoon topographical quadrangle.

Little Wabash River-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 11, T. 10 N., R. 6 E., with spillway at elevation 630 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 980 acres, a storage of approximately 12,740 acre feet, and a watershed area of 58 square miles. Of this total watershed area 18 square miles are tributary to the Municipal reservoir of the City of Mattoon.

STARK COUNTY

Only a small part of Stark County has been topographically mapped. Therefore, it is not possible to estimate reservoir locations and capacities, but it is known that there are sites for reservoirs of considerable size on Walnut Creek, Indian Creek, Spoon River and its various tributaries.

Reservoirs on Spoon River would likely serve primarily as stream control projects.

STEPHENSON COUNTY

Only a very small portion of Stephenson County has been topographically mapped. Therefore, it is not possible to give estimates of possible reservoir locations and capacities. It appears, however, that very good reservoirs could be developed on Rock Run and on the several branches of Otter Creek.

TAZEWELL COUNTY

Ten Mile Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 1, T. 26 N., R. 4 W., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of about 100 feet, a pool area of 500 acres, a storage of approximately 16,667 acre feet, and a watershed area of 11.4 square miles.

A second reservoir site is available on the upper part of this same creek. A dam constructed across Ten Mile Creek valley about on the north line of Section 5, T. 26 N., R. 3 W., with spillway at elevation 650 feet, would create a reservoir having a depth at the dam of about 84 feet, a pool area of 180 acres, a storage of approximately 5,040 acre feet, and a watershed area of about 6.3 square miles.

A third reservoir site is available on the south fork of Ten Mile Creek. A dam constructed across the valley of this stream in the N.W. 1/4 of Section 12, T. 26 N., R. 4 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 47 acres, a storage of approximately 940 acre feet, and a watershed area of 2.8 square miles. This watershed area is very rugged and the run-off is presumably flashy and high. The topography will support a spillway at a much higher elevation than that suggested.

Farm Creek, North Fork-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 26, T. 26 N., R. 4 W., with spillway at elevation 550 feet would create a reservoir having a depth at the dam of about 36 feet, a pool area of 140 acres, a storage of approximately 1,680 acre feet, and a watershed area of about 5.6 square miles.

The topography would permit an increase in elevation of spillway at 600 feet or more. The watershed likely would support a greater storage.

A number of tributaries from the south to Farm Creek flow through rugged topography and are possible sites for small reservoirs. A dam across the valley of one such tributary in the S.W. 1/4 of Section 35, T. 26 N., R. 4 W., with spillway at elevation 550 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 50 acres, a storage of approximately 850 acre feet, and a watershed area of about 2.9 square miles. The topography will support a spillway at a higher elevation.

Another site for a dam on a tributary of Farm Creek is found in the southeast corner of Section 33, T. 26 N., R. 4 W. A dam at this location, with spillway at elevation 550 feet, would create a reservoir having a pool area of about 220 acres, a storage of approximately 5,840 acre feet, and a watershed area of 5.2 square miles.

Lick Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 25, T. 25 N., R. 5 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of about 260 acres, a storage of approximately 4,350 acre feet, and a watershed area of 15.6 square miles.

Prairie Creek-A dam across the valley of this stream adjacent to the Big Four Railroad in the N.E. 1/4 of Section 20, T. 24 N., R. 3 W., spillway at elevation 640 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 200 acres, a storage of approximately 1,330 acre feet, and a watershed area of 18.1 square miles.

UNION COUNTY

The ruggedness of the topography of Union County suggests opportunities for a great number of small reservoirs, a tabulation of which would be useless. This same ruggedness also militates against the development of many excellent sites for the reason that the valleys very generally contain the highway routes and to create reservoirs in such valleys would mean expensive road construction.

Drury Creek Tributaries-1. A dam constructed across the valley of a small tributary in the N.E. 1/4 of Section 17, T. 11 S., R. 1 W., with spillway at elevation 540 feet, would create a reservoir having a depth of water at the dam of 60 feet, a pool area of about 210 acres, a storage of approximately 4,200 acre feet, and a watershed of 1.7 square miles.

2. A dam constructed across the valley of a small tributary in the S.W. 1/4 of Section 16, T. 11 S., R. 1 W., with spillway at elevation 540 feet, would create a reservoir having a depth of water at the dam of about 40 feet, a pool area of about 90 acres, a storage of approximately 1,200 acre feet, and a watershed area of 2.1 square miles.

3. A dam constructed across a tributary in the S.E. 1/4 of Section 4, T. 11 S., R. 1 W., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of about 50 feet, a pool area of about 130 acres, a storage of approximately 2,160 acre feet, and a watershed of 2.4 square miles.

4. A dam constructed across a tributary in the N.E. 1/4 of Section 4, T. 11 S., R. 1 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of about 42 feet, a pool area of 220 acres, a storage of approximately 3,080 acre feet, and a watershed area of 3.0 square miles.

Lick Creek-A dam constructed across the valley of Lick Creek in the N.W. 1/4 of Section 27, T. 11 S., R. 1 E., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of about 50 feet, a pool area of about 150 acres, a storage of approximately 2,500 acre feet, and a watershed area of 4.2 square miles.

Bradshaw Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 31, T. 11 S., R. 1 E., with spillway at elevation 500 feet, would create a reservoir having a depth at the dam of about 60 feet, a pool area of about 520 acres, a storage of approximately 10,400 acre feet, and a watershed area of 9.8 square miles.

Cache Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 16, T. 12 S., R. 1 E., with spillway at elevation 440 feet, would create a large reservoir having a depth at the dam of about 65 feet, a pool area of about 1,830 acres, a storage of approximately 39,650 acre feet, and a watershed area of 38.6 square miles.

Tributary of Cache Creek-A dam across the valley of a tributary to Cache Creek in the S.W. 1/4 of Section 4, T. 12 S., R. 1 W., with spillway at elevation 510 feet, would create a reservoir having a depth at the dam of about 30 feet, a pool area of about 150 acres, a storage of approximately 1,500 acre feet, and a watershed of 4.2 square miles. A reservoir at this site would be available as a raw water supply for the City of Anna. The topography apparently would permit an increase in spillway elevation to 520 feet if it were deemed necessary.

Little Creek-A dam across the valley of this stream in the northeast corner of Section 26, T. 13 S., R. 1 W., with spillway elevation at 440 feet, would create a reservoir having a depth at the dam of about 42 feet, a pool area of about 230 acres, a storage of approximately 3,220 acre feet, and a watershed area of 2.9 square miles. Such a reservoir could serve the City of Dongola as a raw water supply.

Big Creek-A dam across the valley of this stream in the N.E. 1/4 of Section 19, T. 13 S., R. 1 E., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of about 39 feet, a pool area of about 680 acres, a storage of approximately 8,840 acre feet, and a watershed area of 21.5 square miles.

Further up stream a second site appears available near the center of Section 1, T. 13 S., R. 1 W. A dam at this point with spillway at elevation 460 feet would create a reservoir having a depth at the dam of 50 feet, a pool area of about 270 acres, a storage of approximately 4,500 acre feet, and a watershed area of 8.3 square miles. A reservoir at this location is a potential raw water supply for the City of Anna.

Cypress Creek-A dam across the valley of this stream in the southwest corner of Section 13, T. 13 S., R. 1 E., with spillway at elevation 380 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of about 1,200 acres, a storage of approximately 12,000 acre feet, and a watershed area of 23.9 square miles.

Further upstream a second site appears feasible in the S.E. 1/4 of Section 4, T. 13 S., R. 1 E. A dam at this point with spillway at elevation 440 feet would create a reservoir having a depth of about 55 feet at the dam, a pool area of about 710 acres, a storage of approximately 13,040 acre feet, and a watershed area of 11.2 square miles.

Clear Creek-A very large reservoir which might conceivably be used for a hydroelectric development is possible on Clear Creek. A dam constructed across the valley of this stream in the N.W. 1/4 of Section 7, T. 12 S., R. 2 W., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of about 80 feet, a pool

area of about 3,310 acres, a storage of approximately 88,240 acre feet, and a watershed of 48.6 square miles.

Smaller reservoir sites appear available on the head water streams of this drainage system.

Nursery Branch-A dam constructed across the valley of this stream near the S.E. corner of the N.E. 1/4 of Section 7, T. 12 S., R. 2 W., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of about 40 feet, a pool area of about 80 acres, a storage of approximately 1,070 acre feet, and a watershed area of 1.1 square miles.

A reservoir at this location would be of advantage to the Union County State Forest Nursery which is located about a half mile south of the proposed dam location.

Cany Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 20, T. 12 S., R. 2 W., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of about 65 feet, a pool area of about 370 acres, a storage of approximately 8,260 acre feet, and a watershed area of 7.1 square miles.

Dutch Creek-A dam across the valley of this stream in the S.E. 1/4 of Section 20, T. 12 S., R. 2 W., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of about 40 feet, a pool area of about 1,370 acres, a storage of approximately 18,280 acre feet, and a watershed area of 31.9 square miles.

Harrison Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 17, T. 13 S., R. 2 W., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of about 95 feet, a pool area of about 360 acres, a storage of approximately 11,400 acre feet, and a watershed area of 3.5 square miles.

Lyerle Creek-A dam constructed across the valley of this stream in Section 20, T. 13 S., R. 2 W., with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of about 60 feet, a pool area of about 370 acres, a storage of approximately 7,400 acre feet, and a watershed of 4.1 square miles. The topography would permit an increase in elevation of the spillway.

Lingle Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 30, T. 13 S., R. 1 W., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of about 42 feet, a pool area of about 430 acres, a storage of approximately 6,020 acre feet, and a watershed area of 6.0 square miles.

VERMILION COUNTY

North Fork Vermilion River-The Inter-State Water Company of Danville maintains a large reservoir on the North Fork of the Vermilion River as a water supply for the City of Danville. Slack water extends some 4 miles north of the City, but just above this point in Sections 7 and 8, T. 20 N., R. 7 W., there appears to be an opportunity to construct a second dam with spillway at elevation 600

feet to 620 feet. A spillway at elevation 600 feet would create a reservoir having a depth at the dam of about 22 feet. If the spillway was at elevation 620 feet, the depth would be about 42 feet. A reservoir at this point would be auxiliary to the present Vermilion Lake.

Grape Creek-A dam constructed across the valley of this small stream in the N.E. 1/4 of Section 32, T. 19 N., R. 11 W., 2nd P. M., with spillway at elevation 610 feet, would create a reservoir having a depth at the dam of about 21 feet, a pool area of about 80 acres, a storage of approximately 560 acre feet, and a watershed area of 3.1 square miles.

Vermilion River-Two favorable sites for dams on the Vermilion River just west of the state line and one about 1 1/2 miles east of the state line in Indiana are indicated on the topographical map.

To the west of the City of Danville an opportunity to develop a large lake or reservoir is presented. A dam constructed across the valley of the river in the N.W. 1/4 of Section 14, T. 19 N., R. 12 W., with spillway at elevation 600 feet, would create a reservoir or lake having a depth at the dam of about 80 feet, a pool area of 6,600 acres, a storage of approximately 176,000 acre feet, and a watershed area of 154 square miles. A higher spillway elevation appears possible.

Smaller reservoirs could be developed on Middle Fork and at points on the river itself to the west of the suggested dam site in Section 14.

A dam site is available at the east line of Section 31, T. 19 N., R. 13 W. With spillway at elevation 640 feet, the lake would have a depth of 40 feet at the dam, a pool area of 1,620 acres, a storage of approximately 21,600 acre feet, and a drainage area of approximately 68 square miles.

Little Vermilion River-The valley of the Little Vermilion River would likely lend itself to the development of a satisfactory reservoir. Such a reservoir could be made to serve the City of Georgetown as a raw water supply.

WABASH COUNTY

Opportunities for reservoirs, except small farm ponds, do not exist in Wabash County.

WARREN COUNTY

Middle Henderson Creek-A dam constructed across the valley of this stream near the northwest corner of the N.E. 1/4 of Section 9, T. 12 N., R. 2 W., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam of about 27 feet, a pool area of 650 acres, a storage of approximately 5,850 acre feet, and a watershed area of about 49.6 square miles.

Johns Creek-A dam constructed across the valley of this stream on the west line of Section 33, T. 12 N., R. 3 W., with spillway at elevation 640 feet, would create a reservoir having a depth at the dam

of 30 feet, a pool area of 80 acres, a storage of approximately 800 acre feet, and a watershed of about 7.2 square miles.

Davids Creek-A dam constructed across the valley of this stream Section 2, T. 11 N., R. 3 W., with spillway at elevation 690 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 90 acres, a storage of approximately 900 acre feet, and a watershed area of about 8.5 square miles.

Cedar Creek-A site for a dam on this stream is presented in the S.W. 1/4 of Section 36, T. 12 N., R. 3 W. But since Cedar Creek is the outlet stream for the entire drainage of Galesburg and Monmouth, the value of a reservoir on this stream is seriously lowered. Hence a reservoir was not considered practical at this location.

South Henderson Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 22, T. 10 N., R. 3 W., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of about 18 feet, a pool area of 220 acres, a storage of approximately 1,320 acre feet, and a watershed area of about 22.4 square miles.

Cedar Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 20, T. 9 N., R. 1 W., with spillway at elevation 660 feet, would create a reservoir having a depth at the dam of about 40 feet, a pool area of 930 acres, a storage of approximately 12,400 acre feet, and a watershed area of about 40.0 square miles.

Slug Run-The time may come, in the not distant future, when the Cities of Galesburg, Abingdon, and Monmouth will find it desirable to secure a water supply from an impounded source. A site for such a reservoir is found in the valley of Slug Run about 3 miles west of Abingdon. A dam constructed across the valley of this stream along the south line of Sections 25 and 26, T. 10 N., R. 1 W., of sufficient crown width to accommodate the county highway and with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of about 48 feet, a pool area of 930 acres, a storage of approximately 14,880 acre feet, and watershed area of about 32.3 square miles.

Swan Creek-Swan Creek is a large tributary of Cedar Creek, in northwest Fulton County, on which a rather large reservoir is possible. However, Swan Creek presents reservoir possibilities in its own right. A dam constructed across the valley of this stream in the S.E. 1/4 of Section 13, T. 8 N., R. 1 W., with spillway at elevation 620 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 2,000 acres, a storage of approximately 33,400 acre feet, and a watershed of about 100.8 square miles. A reservoir at this location could serve as a raw water supply for Avon.

Sites for smaller reservoirs are available on the various branches of Swan Creek.

WASHINGTON COUNTY

Elkhorn Creek-A dam constructed across the valley of this stream in the N.E. 1/4 Section 13, T. 2 S., R. 5 W. and the N.W. 1/4 of Section 18, T. 2 S., R. 4 W., with spillway at elevation 440 feet,

would create a reservoir having a depth at the dam of about 30 feet, a pool area of 1,460 acres, a storage of approximately 14,600 acre feet, and a watershed area of about 52.2 square miles.

Mud Creek-A dam constructed across the valley of this stream in the northwest corner of Section 32 and the southwest corner Section 29, T. 3 S., R. 4 W., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of about 20 feet, a pool area of 600 acres, a storage of approximately 4,000 acre feet, and a watershed area of about 14.0 square miles.

Locust Creek-A dam constructed across the valley of this stream near the center of Section 19, T. 3 S., R. 2 W., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 560 acres, a storage of approximately 3,740 acre feet, and a watershed area of about 34.8 square miles. The topography will permit an increase in spillway elevation to 470 feet. Sites are available for small reservoirs on the upper reaches of the various branches of the Locust Creek system.

Beaucoup Creek-A dam constructed across the valley of this stream near the south line of the N.W. 1/4 of Section 22, T. 3 S., R. 2 W., with spillway at elevation 470 feet, would create a reservoir having a depth at the dam of 27 feet, a pool area of 744 acres, a storage of approximately 6,690 acre feet, and watershed area of about 31.5 square miles. The topography would permit an increase in elevation of the spillway to at least 480 feet. Sites are available on the upper reaches of the various branches of Beaucoup Creek system for numerous small reservoirs.

Panther Creek-Sites are available on the upper reaches of the branches of this stream for several small reservoirs.

Hickory Creek-Sites for small reservoirs are available on this small stream.

Nashville Creek-A dam constructed across the valley of this small stream near the north line of the S.W. 1/4 of Section 19, T. 2 S., R. 2 W., with spillway at elevation 490 feet, would create a reservoir having a depth at the dam of about 15 feet, a pool area of about 69 acres, a storage of approximately 345 acre feet, and a watershed area of about 6.3 square miles.

Middle Creek-Opportunities exist on the upper reaches of the various branches of this stream for numerous small reservoirs.

Buckingham Creek-A dam constructed across the valley of this small stream near the southeast corner of the N.E. 1/4 of Section 6, T. 1 S., R. 3 W., with spillway at elevation 430 feet, would create a reservoir having a depth at the dam of about 30 feet, a pool area of 114 acres, a storage of approximately 1,140 acre feet, and a watershed area of 2.8 square miles.

Creek 9-A dam constructed across the valley of an unnamed creek in the S.E. 1/4 of Section 1, T. 1 S., R. 4 W., with spillway at elevation 430 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 137 acres, a storage of approximately 1,150 acre feet, and a watershed area of 4.4 square miles.

WAYNE COUNTY

Topographical maps of this County were not available when the reservoir study was made, but from other sources it appears that the topographical relief is quite gentle throughout the County. The stream slopes are easy and the valleys rather wide. Therefore, opportunities for the development of reservoirs are few. There may be opportunities for small farm ponds, however.

WHITE COUNTY

No topographical maps of this county are available and, therefore, a study of possible reservoir sites is not possible. It is known, however, that portions of the County are fairly rugged and that opportunities for some fairly sizeable reservoirs are available.

WHITESIDE COUNTY

Reservoir sites in Whiteside County are somewhat limited. The area where favorable sites are the most abundant is north and east of Morrison. Sites for several fair to large reservoirs and for a considerable number of small farm ponds are available.

Little Rock Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 17 and the S.E. 1/4 of Section 8, T. 22 N., R. 5 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of about 40 feet, a pool area of 850 acres, a storage of approximately 11,300 acre feet, and a watershed area of 20.1 square miles.

Branch of Little Rock Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 8, T. 22 N., R. 5 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of about 38 feet, a pool area of 75 acres, a storage of approximately 950 acre feet, and a watershed area of 6.0 square miles.

French Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 16 and the N.W. 1/4 of Section 15, T. 21 N., R. 5 E., with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 390 acres, a storage of approximately 3,900 acre feet, and a watershed area of 5.3 square miles.

Branch of Rock Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 25, T. 22 N., R. 5 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 116 acres, a storage of approximately 1,550 acre feet, and a watershed area of 4.2 square miles.

Spring Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 2, T. 21 N., R. 6 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 640 acres, a storage of approximately 8,550 acre feet, and a watershed area of 12.8 square miles.

Small reservoir sites are available on the tributaries of Rock Creek and on Deer Creek.

WILL COUNTY

Long Run-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 6, T. 36 N., R. 11 E., with spillway at elevation 680 feet, would create a reservoir suitable for a surface water supply for the City of Joliet. The reservoir would have a depth at the dam of about 48 feet, a pool area of 1,300 acres, a storage of approximately 20,800 acre feet, and a watershed area of 21.8 square miles. The yield of this reservoir would be about 6,300 acre feet per year. The construction of the dam should be such that Archer Road could be rerouted on its crest. The topography would permit an increase in spillway elevation.

Spring Creek-A dam constructed across the valley of this stream on the east line of the N.E. 1/4 of Section 33, T. 36 N., R. 11 E., with spillway at elevation 685 feet, would create a reservoir that could be used as a surface water supply for the City of Joliet. The lake would have a depth at the dam of 24 feet, a pool area of 676 acres, a storage of approximately 10,700 acre feet, and a watershed area of 9.9 square miles. The yield of this reservoir would be about 2,850 acre feet per year. The topography would permit an increase in spillway elevation. The dam should be designed to carry the county road on its crest.

Hickory Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 13, T. 35 N., R. 11 E., with spillway at elevation 680 feet, would create a reservoir suitable for use by the City of Joliet as a source for a surface water supply. The lake would have a depth at the dam of 35 feet, a pool area of 920 acres, a storage of approximately 10,700 acre feet, and a watershed area of 43.0 square miles. This reservoir could be expected to yield 12,700 acre feet per year. The topography would permit an increase in spillway elevation.

Jackson Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 24, T. 34 N., R. 9 E., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 80 acres, a storage of approximately 800 acre feet, and a watershed of about 46.3 square miles.

Grant Creek-A dam constructed across the valley of this stream in the southern part of Section 36, T. 34 N., R. 9 E., with spillway at elevation 600 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 250 acres, a storage of approximately 3,330 acre feet, and a watershed area of 4.6 square miles.

Prairie Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 7, T. 33 N., R. 10 E., with spillway at elevation 610 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 380 acres, a storage of approximately 3,800 acre feet, and a watershed of 42.4 square miles.

Jordan Creek-A dam constructed across the valley of this stream in the southern part of Section 30, T. 33 N., R. 10 E., with spillway

at elevation 560 feet, would create a reservoir having a depth at the dam of 21 feet, a pool area of 200 acres, a storage of approximately 1,400 acre feet, and a watershed area of 23.4 square miles.

Forked Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 31, T. 33 N., R. 10 E., with spillway at elevation 570 feet, would create a reservoir having a depth at the dam of 35 feet, a pool area of 930 acres, a storage of approximately 10,850 acre feet, and a watershed area of 126.3 square miles.

WILLIAMSON COUNTY

Branch of Bankston Fork-A dam constructed across the valley of this stream in the northeast corner of Section 12, T. 9 S., R. 4 E., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 90 acres, a storage of approximately 900 acre feet, and a watershed area of 1.2 square miles.

Branch of Lake Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 28, T. 8 S., R. 3 E., with spillway at elevation 460 feet, would create a small reservoir having a depth at the dam of 20 feet, a pool area of 70 acres, a storage of approximately 470 acre feet, and a watershed area of 1.4 square miles.

Crab Orchard Creek-This valley has been studied as a source of water for industrial development and as a unit in the flood control of the Big Muddy River. A site for a dam is presented in the S.W. 1/4 of Section 19, T. 9 S., R. 1 E. A dam constructed across the valley at this location, with spillway at elevation 400 feet, would create a reservoir having a depth at the dam of about 24 feet, a pool area of 4,560 acres, a storage of approximately 36,480 acre feet, and a watershed area of 222 square miles. The topography would permit an increase in spillway elevation to at least 410 feet.¹

Little Grassy Creek-A dam constructed across the valley of this stream along the north line of the N.E. 1/4 of Section 19, T. 10 S., R. 1 E., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of about 38 feet, a pool area of 520 acres, a storage of approximately 6,580 acre feet, and a watershed area of 15.7 square miles. The dam could be constructed so that the east and west road could be carried on its crest.

Grassy Creek, No. 1-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 16, T. 10 S., R. 1 E., with spillway elevation at 480 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 470 acres, a storage of approximately 7,850 acre feet, and a watershed area of 19.6 square miles.

Grassy Creek, No. 2-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 26, T. 10 S., R. 1 E., with spillway at elevation 560 feet, would create a reservoir having a depth at the dam of about 72 feet, a pool area of 470 acres, a storage of approximately 11,280 acre feet, and a watershed area of 5.9 square miles.

¹Since this study was undertaken the development of a reservoir on Crab Orchard Creek has been started.

The combined storage of these two reservoirs is more than the watershed can supply. However, Site No. 2 could serve very effectively as a silt retarding basin for Site No. 1 and for Crab Orchard as well.

Caney Branch-A dam constructed across the valley of this stream along the north line of the N.W. 1/4 of Section 14, T. 10 S., R. 1 E., with spillway at elevation 440 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 200 acres, a storage of approximately 1,670 acre feet, and a watershed area of 3.5 square miles. The topography would permit an increase in spillway elevation to 460 feet.

Middle Wolf Creek-The new reservoir of the City of Herrin is located on this stream, the dam being in the N.W. 1/4 of Section 20, T. 10 S., R. 2 E., with spillway at elevation 475 feet. The storage capacity of 372,000,000 gallons (1,120 acre feet) is too small for the volume of discharge from the steep drainage area. It is suggested that the dam could be raised to provide for an elevation of spillway as high as 500 feet. This would create a reservoir having a depth at the dam of 60 feet, a pool area of 170 acres, a storage of approximately 3,400 acre feet, and a watershed area the same as before, namely 3.3 square miles.

Middle Wolf Creek, Site No. 2-It might be desirable to construct a second reservoir in this stream to serve as a silt retention basin and a secondary or relief storage in times of excessive rain. A dam constructed across the valley of this stream along the north line of the N.W. 1/4 of Section 32, T. 10 S., R. 2 E., with spillway at elevation 580 feet, would create a reservoir having a depth at the dam of about 70 feet, a pool area of 140 acres, a storage of approximately 3,270 acre feet, and a watershed area of 2.1 square miles. The dam crest could be made sufficiently wide to carry the county road. Such a secondary reservoir would be a material protection to the present Herrin Reservoir No. 2 or to a modification of it.

Wolf Creek, Site No. 1-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 17, T. 10 S., R. 2 E., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 230 acres, a storage of approximately 3,070 acre feet, and a watershed area of 7.5 square miles.

Wolf Creek, Site No. 2-The watershed of Wolf Creek is long and narrow with steep sides producing a high run off, therefore, a second reservoir on this stream may well be considered. A dam constructed across the valley of this stream in the N.E. 1/4 of Section 32, T. 10 S., R. 2 E., with spillway at 600 feet, would create a reservoir having a depth at the dam of 72 feet, a pool area of 370 acres, a storage of approximately 8,880 acre feet, and a watershed area of 3.3 square miles.

Saline River, Site No. 1-The present municipal reservoir for the City of Marion is subject to very low stages, therefore, in selecting reservoir sites on the Saline River due consideration was given to

the development of a reservoir which might be suitable for a new reservoir for the city. A dam constructed across the valley of this stream in the N.W. 1/4 of Section 17, T. 10 S., R. 3 E., with spillway at elevation 460 feet, would create a reservoir having a depth at the dam of about 24 feet, a pool area of 580 acres, a storage of approximately 4,640 acre feet, and a watershed of 54.9 square miles. The topography will permit an increase in elevation of the spillway. But it likely would not be desirable to make the spillway higher than the spillway of the private lake in Section 13, or at 476 feet. The ground elevation in the vicinity of the Water Works Plant is 440 feet or perhaps a little lower, hence it is possible to get a gravity flow from this proposed new reservoir to the plant.

Saline River, Site No. 2-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 24, T. 10 S., R. 2 E., with spillway at elevation 480 feet, would create a reservoir having a depth at the dam of about 33 feet, a pool area of 1,140 acres, a storage of approximately 12,540 acre feet, and a watershed area of 47.2 square miles. The topography will permit an increase in elevation of spillway to 500 feet.

Saline River, Site No. 3-A third reservoir can be developed by constructing a dam across the valley of the stream in the N.E. 1/4 of Section 6, T. 11 S., R. 3 E. With spillway at elevation 500 feet, the reservoir formed would have a depth at the dam of about 36 feet, a pool area of 800 acres, a storage of approximately 9,600 acre feet, and a watershed area of 17.3 square miles.

If Sites 2 and 3 are both developed, the storage in No. 2 would be reduced to a total of 750 acre feet. The topography would permit an increase in elevation of the spillway.

Grassy Creek-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 23, T. 10 S., R. 4 E., with spillway at elevation 420 feet, would create a reservoir having a depth at the dam of 20 feet, a pool area of 500 acres, a storage of approximately 3,330 acre feet, and a watershed area of 7.0 square miles. The topography would permit an increase of spillway elevation to 440 feet if desired.

Branch of Sugar Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 15, T. 10 S., R. 4 E., with spillway elevation at 440 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 150 acres, a storage of approximately 1,500 acre feet, and a watershed area of 2.4 square miles. The topography would permit an increase in elevation of spillway.

Sugar Creek-A dam constructed across the valley of this stream near the center of Section 17, T. 10 S., R. 4 E., with spillway elevation at 460 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 920 acres, a storage of approximately 15,340 acre feet, and a watershed area of 34.1 square miles. The topography would permit an increase in spillway elevation, but the railroad occupying a portion of the upper valley might prevent an increase in the size of the pool.

WINNEBAGO COUNTY

North Kinnikinnick Creek-A dam constructed across the valley of this stream in the N.E. 1/4, Section 27, T. 46 N., R. 2 E., 3rd P. M., with spillway at elevation 820 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 470 acres, a storage of approximately 9,400 acre feet, and a watershed of 16.5 square miles.

Branch of South Kinnikinnick Creek-A dam constructed across the valley of this creek near the center of Section 35, T. 46 N., R. 2 E., 3rd P. M., with spillway at elevation 840 feet, would create a reservoir having a depth at the dam of about 51 feet, a pool area of 150 acres, a storage of approximately 2,550 acre feet, and a watershed area of 3.6 square miles.

South Kinnikinnick Creek-Since the location of the dam for this reservoir as proposed is in Winnebago County it is so listed, but most of the reservoir and all the watershed area is in Boone County. A dam constructed across the valley of this stream in the N.E. 1/4 of Section 1, T. 45 N., R. 2 E., 3rd P. M., with spillway at elevation 860 feet, would create a reservoir having a depth at the spillway of 60 feet, a pool area of 240 acres, a storage of approximately 4,800 acre feet, and a watershed area of 13.2 square miles.

Creek-A dam constructed across the valley of a small water course on the east line of the N.E. 1/4 of Section 10, T. 45 N., R. 2 E., 3rd P. M., with spillway at elevation 820 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 110 acres, a storage of approximately 1,320 acre feet, and a watershed area of 4.6 square miles.

Creek-A dam constructed across the valley of a small water course in the S.E. 1/4 of Section 10, T. 45 N., R. 2 E., 3rd P. M., with spillway at elevation 820 feet, would create a reservoir having a depth at the dam of 36 feet, a pool area of 120 acres, a storage of approximately 1,440 acre feet, and a watershed area of 2.5 square miles.

North Fork Kent Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 8, T. 44 N., R. 1 E., 3rd P. M., with spillway at elevation 760 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 550 acres, a storage of approximately 5,500 acre feet, and a watershed area of 20.2 square miles.

Mud Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 26, T. 45 N., R. 1 E., 3rd P. M., with spillway at elevation 740 feet, would create a reservoir having a depth at the dam of 25 feet, a pool area of 160 acres, a storage of approximately 1,330 acre feet, and a watershed area of 8.2 square miles.

Creek-A dam constructed across the valley of the small water course in the S.E. 1/4 of Section 3, T. 28 N., R. 11 E., 4th P. M., with spillway at elevation 780 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 420 acres, a storage of approximately 5,600 acre feet, and a watershed area of 5.1 square miles.

Otter Creek-A dam constructed across the valley of this stream at the northeast corner of Section 9, T. 28 N., R. 10 E., 4th P. M., with spillway at elevation 800 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 1,180 acres, a storage of approximately 15,720 acre feet, and a watershed area of 14.8 square miles.

South Branch Otter Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 8, T. 28 N., R. 10 E., 4th P. M., with spillway at elevation 810 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 366 acres, a storage of approximately 3,660 acre feet, and a watershed area of 7.5 square miles.

Coolidge Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 25, T. 27 N., R. 10 E., 4th P. M., with spillway at elevation 790 feet, would create a reservoir having a depth at the dam of 30 feet, a pool area of 428 acres, a storage of approximately 4,280 acre feet, and a watershed area of 9.3 square miles.

Grove Creek-A dam constructed across the valley of this stream on the west line of Section 5, T. 26 N., R. 10 E., 4th P. M., with spillway at elevation 830 feet, would create a reservoir having a depth at the dam of 55 feet, a pool area of 1,770 acres, a storage of 32,450 acre feet, and a watershed area of 13.6 square miles. The dam crest could be made wide enough to carry the north and south highway.

Creek-A dam constructed across the valley of this small stream in the south line of Section 17, T. 43 N., R. 1 E., 3rd P. M., with spillway at elevation 740 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 290 acres, a storage of approximately 3,870 acre feet, and a watershed of 8.2 square miles. The dam could be made wide enough to serve as the county highway.

Kishwaukee River-A dam constructed across the valley of this stream near the center of Section 20, T. 43 N., R. 2 E., 3rd P. M., with spillway at elevation 720 feet, would create a reservoir having a depth at the dam of 24 feet or more, a pool area of 1,810 acres, a storage of approximately 14,480 acre feet, and a watershed area of 1,075 square miles.

WOODFORD COUNTY

Snag Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 1, T. 28 N., R. 3 W., 3rd P. M., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 69 feet, a pool area of 428 acres, a storage of 9,850 acre feet, and a watershed area of 19.3 square miles. The topography would permit an increase in the elevation of the spillway.

Dry Run-A dam constructed across the valley of this stream in the S.E. 1/4 of Section 11, T. 28 N., R. 3 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 133 acres, a storage of approximately 2,660 acre feet, and a watershed area of 11.7 square miles. The topography would permit an increase in the elevation of the spillway.

Richland Creek-A dam constructed across the valley of this stream in the N.W. 1/4 of Section 23, T. 28 N., R. 3 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 514 acres, a storage of approximately 10,280 acre feet, and a watershed area of 27.8 square miles. The topography would permit an increase in the elevation of the spillway.

There are sites for smaller reservoirs on the tributaries of this stream system.

Partridge Creek-A dam constructed across the valley of this stream in the north half of Section 33, T. 28 N., R. 3 W., with spillway at elevation 540 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 507 acres, a storage of approximately 10,140 acre feet, and a watershed of 26.9 square miles. The topography would permit an increase in the elevation of the spillway.

Many sites for smaller reservoirs are available on the numerous tributaries of this stream system.

Blalock Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 31, T. 28 N., R. 3 W., with spillway at elevation 520 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 90 acres, a storage of approximately 1,200 acre feet, and a watershed area of 2.8 square miles. The topography would permit an increase in elevation of the spillway if desired.

Walnut Creek, Site 1-A dam constructed across the valley of this stream in the north part of Section 12, T. 26 N., R. 2 W., with spillway at elevation 720 feet, would create a reservoir having a depth at the dam of 28 feet, a pool area of 750 acres, a storage of approximately 7,000 acre feet, and a watershed of 43.3 square miles. A reservoir at this point would provide a very excellent water supply for the city of Eureka. The topography would permit an increase in elevation of the spillway.

Walnut Creek, Site 2-A second site is available near the mouth of this same stream. A dam constructed across the valley near the east line of Section 5, T. 25 N., R. 1 W., with spillway at elevation 680 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 850 acres, a storage of approximately 12,750 acre feet, and a watershed area of 74.9 square miles. The topography would permit an increase in elevation of the spillway.

Panther Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 35, T. 26 N., R. 1 W., with spillway at elevation 650 feet, would create a reservoir having a depth at the dam of 21 feet, a pool area of 670 acres, a storage of approximately 4,690 acre feet, and a watershed area of 170 square miles. The topography would permit an increase of some 50 feet in spillway elevation.

Branch of Panther Creek-A dam constructed across the valley of a branch of Panther Creek in the N.E. 1/4 of Section 35, T. 26 N., R. 1 W., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 610 acres,

a storage of approximately 12,200 acre feet, and a watershed area of 12.6 square miles.

Vincent Creek-A dam constructed across the valley of this stream in the S.E. 1/4, Section 7, T. 25 N., R. 1 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 60 feet, a pool area of 120 acres, a storage of approximately 2,400 acre feet, and a watershed area of 2.6 square miles.

Denman Creek-A dam constructed across the valley of this stream in the N.E. 1/4 of Section 7, T. 25 N., R. 1 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 55 feet, a pool area of 260 acres, a storage of approximately 4,770 acre feet, and a watershed area of 11.2 square miles.

Sixmile Creek-A dam constructed across the valley of this stream in the south part of Section 1, T. 25 N., R. 1 E., with spillway at elevation 710 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 570 acres, a storage of approximately 8,550 acre feet, and a watershed area of 41.2 square miles. The topography would permit increasing the elevation of the spillway.

Branch of Mackinaw River-A dam constructed across the valley of this small water course in the south part of Section 33, T. 26 N., R. 1 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 50 feet, a pool area of 200 acres, a storage of approximately 3,330 acre feet, and a watershed of 6.0 square miles.

Branch of Mackinaw River-A dam constructed across the valley of this small stream in the south part of Section 36, T. 26 N., R. 1 E., with spillway at elevation 700 feet, would create a reservoir having a depth at the dam of 45 feet, a pool area of 70 acres, a storage of approximately 1,050 acre feet, and a watershed area of 3.7 square miles.

Wolf Creek-A dam constructed across the valley of this stream in the S.W. 1/4 of Section 33, T. 26 N., R. 2 E., with spillway elevation at 700 feet, would create a reservoir having a depth at the dam of 40 feet, a pool area of 360 acres, a storage of approximately 4,800 acre feet, and a watershed area of 18.8 square miles.

CIRCULARS OF THE STATE WATER SURVEY

- No. 1. Well Water Recessions in Illinois by G. C. Habermeyer (1928).
- No. 2. The Effect of Certain Illinois Waters on Lead by O. W. Rees and A. L. Elder (1928).
- No. 3. Removal of Colloids from Sewage by A. M. Buswell, R. A. Shive, and S. L. Neave (1928).
- No. 4. Control of Scum in Sewage Tanks by A. M. Buswell (1929).
- No. 5. The Biology of a Sewage Treatment Plant. A Preliminary Survey, Decatur, Illinois, by H. P. K. Agersborg and W. D. Hatfield (1929).
- No. 6. Some Idiosyncrasies of Ground Waters by W. D. Gerber (1930).
- No. 7. Fermentation Products of Cellulose by C. S. Boruff and A. M. Buswell (1929).
- No. 8. Chemical Studies on Sludge Digestion by S. L. Neave with A. M. Buswell (1930).
- No. 9. Illinois River Studies, 1929-30 by C. S. Boruff. (1930).
- No. 10. Production of Fuel Gas by Anaerobic Fermentations by A. M. Buswell (1930).
- No. 11. The Hydrology of Industrial and Municipal Water Supplies in Illinois by Winfred D. Gerber (1931).
- No. 12. Some Economic Problems of the Illinois River Valley. Papers presented before the Economics Section of the Illinois State Academy of Science, Peoria, Illinois, May 8, 1931.
- No. 13. Soap Usage and Water Hardness by Hersel Wendell Hudson (1934).
- No. 14. A Carbon Study of Sludge Digestion by T. E. Larson, C. S. Boruff, and A. M. Buswell (1934).
- No. 15. The Determination of Free Chlorine by D. Tarvin, H. R. Todd, and A. M. Buswell (1935).
- No. 16. The Treatment of "Beer Slop" and Similar Wastes by A. M. Buswell (1935).
- No. 17. Data on the Ground Waters of Lake County, Illinois by W. D. Gerber, S. M. McClure, D. Tarvin, and A. M. Buswell (1935).
- No. 18. A Survey of the Ground Water Resources of Illinois by W. D. Gerber, S. M. McClure, D. Tarvin, and A. M. Buswell (1936).
- No. 19. Water Quality for Fire Fighting. The Relation of Water Resistivity to Safe Distance from Nozzle to Electric Lines by A. M. Buswell (1937).
- No. 20. Model Study of Spillway Characteristics West Frankfort by J. J. Doland, T. E. Larson, and C. O. Reinhardt (1935-37). (*In press.*)