

Sedimentation Bulletin Number 5  
August 1953

SUMMARY OF  
RESERVOIR SEDIMENTATION  
SURVEYS  
FOR  
THE UNITED STATES  
THROUGH 1950

Compiled under the auspices of  
Subcommittee on Sedimentation  
Federal Inter-Agency  
River Basin Committee

Prepared under the supervision  
of the Corps of Engineers  
Department of the Army

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Sedimentation Bulletin Number 5

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MADE IN

THE UNITED STATES

THROUGH 1950

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SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS

MADE IN  
THE UNITED STATES  
THROUGH 1950

NOTE

This bulletin is the fifth of a series issued by the agencies represented on the Subcommittee on Sedimentation. The series is intended as a medium for dissemination of the results of specific work projects of the subcommittee, and for general information on work being undertaken in the sedimentation field by the agencies on the subcommittee.

Copies of these bulletins may be obtained, for administrative use only, from agencies listed as subcommittee members. Bulletins previously issued by the Subcommittee on Sedimentation are listed as follows:

Bulletin No. 1 - - - INVENTORY OF PUBLISHED AND UNPUBLISHED SEDIMENT-  
LOAD DATA IN THE UNITED STATES

April 1949

Bulletin No. 2 - - - ANNOTATED BIBLIOGRAPHY ON SEDIMENTATION

February 1950

Bulletin No. 3 - - -PRELIMINARY CHECK LIST OF RESERVOIR SEDIMENTATION  
SURVEYS MADE IN THE UNITED STATES TO APRIL 1, 1950  
(Superseded by Bulletin No. 5)

May 1950

Bulletin No. 4 - - -INVENTORY OF PUBLISHED AND UNPUBLISHED SEDIMENT-  
LOAD DATA IN THE UNITED STATES SUPPLEMENT -  
1946 to 1950

April 1952



SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS  
MADE IN THE UNITED STATES  
THROUGH 1950

FOREWORD

This bulletin, together with the appendix, is a presentation of the results of all known, reliable, sedimentation surveys made in the United States through 1950. The purpose of the bulletin is to make readily available the more pertinent data on reservoir sedimentation which would otherwise remain in the archives of the agencies making the surveys. Included in the bulletin is a summary table listing the names of the reservoirs on which sedimentation surveys have been made, together with information relative to location, drainage area, rate of sediment accumulation and related information of general interest. Information has been assembled on 528 reservoirs in the country. These reservoirs are located in all but 12 states, the exceptions being Delaware, Florida, Louisiana, Michigan, New Jersey, North Dakota and the six New England states. In addition to the data on storage reservoirs and stock ponds some information is included on debris basins.

The appendix contains detailed information on each of the reservoir surveys listed in the summary table. The appendix is not being distributed to all recipients of this bulletin because of its bulk and because the detailed information is not of general interest. However, copies of the appendix are available for inspection in the Washington, D. C., offices and in many of the field offices of the agencies represented on the Subcommittee on Sedimentation. Copies may also be obtained on a loan basis from these agencies.

An example of the form of presentation of the detailed information contained in the appendix is given on pages 29 and 30 of this bulletin. A similar data sheet is included in the appendix for each reservoir listed in the summary table.

The basic data vary in relative accuracy. The surveys range from reconnaissance measurements of depth of deposition at a few locations in a reservoir to detailed surveys which include frequent cross sections or complete contour mapping. No classification of relative accuracy has been attempted in this bulletin.

It is anticipated that the results of new surveys or resurveys of reservoirs will be presented from time to time as supplements to this bulletin. Revised sedimentation data sheets for these reservoirs will also be distributed to recipients of the appendix so that copies of the appendix may be kept up to date.

It is hoped that the information in this bulletin and in the appendix will prove useful to many engineers in public and private practice who are interested in problems of reservoir sedimentation. It is also hoped that private engineers and engineering firms and local government agencies who have data on similar reservoir surveys will make this information available to the subcommittee for inclusion in supplements to this bulletin.

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## ACKNOWLEDGEMENTS

The preparation of data sheets in the form required for the appendix has been accomplished by the efforts of personnel in many offices of Federal, State, and local agencies. The initial phase of inaugurating the data collection program and final phases of compiling data for the summary table in the bulletin, preparing typed sheets for the offset reproduction, and the cost of reproduction have been undertaken by the Washington, D. C., offices of the agencies listed on the title page. The efforts of the field offices which have been primarily responsible for the collection of data are gratefully acknowledged.

## EXPLANATION OF THE SUMMARY TABLE

Data in the summary table of the bulletin have been obtained from the reservoir sedimentation data sheets contained in the appendix. Dashes in columns of the table signify absence of data, or that the column is not applicable for the reservoir.

Reservoirs are grouped according to the 79 drainage areas into which the United States has been divided as shown in the publication, "River Basin Maps Showing Hydrologic Stations," compiled under the auspices of the Subcommittee on Hydrology, Federal Inter-Agency River Basin Committee. An index map of these drainage areas is shown on page 31 of this bulletin. In the summary table of this bulletin, the drainage areas in which the reservoirs are located are shown as subheadings. The first of the two numbers identifying a reservoir indicates the drainage area in which it is located. The second number denotes the particular reservoir in the drainage area and is based upon the order in which the data were prepared. When a revised form is prepared for a reservoir, it will be shown alphabetically, for example 70-2a, then 70-2b, etc.

Total drainage area includes the reservoir area and the area lying above all upstream dams but generally excludes non-contributing drainage areas lying within the basin boundary. Where available, the drainage area figure published by the U. S. Geological Survey in Water Supply Papers is used. The net drainage area is the net sediment-contributing area and excludes the reservoir area and the drainage areas above the upstream reservoirs which are effective sediment traps.



The length of record pertains to the period of sediment deposition prior to the date of survey. The initial date does not appear in the table but generally is that representing the initial storage of water, including all or a part of the period of diversion if the trap efficiency was appreciable in that period. In other cases the initial date represents the date of the contour or range survey made after the reservoir was in operation for some time.

The average annual runoff is that for the period shown in the column "Length of Record."

The capacity-watershed ratio (C/W) is derived from the initial total storage at the level of the crest of an ungated spillway or the top of gates (less gate-height freeboard, if any) of gated spillways. The watershed area is the entire flow-contributing drainage area. A dash is shown if upstream reservoirs which have a C/W ratio of more than 25 acre-feet per square mile control more than 25 percent of the drainage area.

The specific weight of deposited sediment is an average or weighted value for the reservoir, determined generally from samples of deposits. In view of the variations of specific weight with depth of the sample and with the location in the reservoir, the determination of a mean specific weight is generally an approximation for the reservoir. If the entry is marked by an asterisk, the specific weight is not obtained from measurements but is assumed or is calculated from field data of the size-frequency grading of the deposits and a chart relating size-frequency with specific weight.

The annual storage loss is determined from the average annual volume of sediment deposition in respect to the initial total storage. In a few cases that are noted, the loss rate applies to a lesser storage corresponding either to a reservoir elevation not exceeded during the period of record or to the limiting upper elevation of the sedimentation survey.

The rate of sediment accumulation pertains to sediment deposited in the reservoir below the full pool elevation but does not include the sediment deposited in deltas above full pool level or sediment discharged from the reservoir. The sediment concentration in parts per million by weight is computed from the measured volume and specific weight of deposits below full pool level and from the quantity of inflowing water-sediment mixture for the period. It was assumed that all of the deposited sediment was transported into the reservoir by flowing water.

FORM FOR REPORTING  
RESERVOIR SEDIMENTATION

On pages 29 and 30 of this bulletin is a completed sample of the reservoir sedimentation data sheet from the appendix. This sheet is a convenient and standard form for reporting results of surveys. An invitation is extended herewith to readers, particularly those practicing engineering individually, in engineering firms, or in local government agencies, to prepare sheets covering surveys known to them but not included in this bulletin. A blank form is inclosed as a tear sheet of this bulletin and additional forms may be obtained from the Washington offices of the agencies listed on the title page or the form may be reproduced if desired. The completed forms may be sent to any one of the agencies represented on the Subcommittee on Sedimentation for inclusion in supplements to this bulletin.

**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
1- ST. JOHN, MACHIAS, PENOBSCOT, KENNEBEC, ANDROSCOGGIN, AND PRESUMPCOT RIVER BASINS														
2- HOUSATONIC, CONNECTICUT, THAMES, AND MERRIMACK RIVER BASINS														
HUDSON RIVER BASIN AND ST. LAWRENCE DRAINAGE IN NEW YORK														
3-1	Schoharie (Gildoa Dam)	Schoharie Cr.....	Prattsville, N. Y.	314	312.3	May 1950	23.8	---	203	60*	0.07	0.166 <u>1/</u>	217 <u>1/</u>	---
SUSQUEHANNA AND DELAWARE RIVER BASINS														
4-1	Lock Raven.....	Gunpowder Falls R.	Towson, Md.....	303	299.4	Oct 1943	29	---	217	60*	0.28	0.618	808	---
4-2	Prettyboy.....	Gunpowder Falls R.	Hereford, Md.....	80	77.5	Oct 1943	10.5	---	754	60*	0.09	0.699	913	---
4-3	Griffin.....	Griffin Cr.....	Scranton, Pa.....	3.2	3.0	May 1941	53	---	620	--	0.04	0.237	---	---
4-4	Elmhurst.....	Roaring Rk.....	Scranton, Pa.....	34.8	34.5	May 1941	51	---	108	--	0.03	0.034	---	---
4-5	Lake Williams.....	Codorus Cr.....	York, Pa.....	42.9	42.6	Apr 1939	27	---	62.6	49.1	0.63	0.394	421	---
4-6	Williams Bridge.....	Stafford Meadow Brk	Scranton, Pa.....	5	4.9	May 1941	48	---	210	---	0.01	0.022	---	---
POTOMAC, RAPPAHANNOCK, YORK, AND JAMES RIVER BASINS														
5-1	Barcroft.....	Holmes Run.....	Alexandria, Va....	14.5	14.3	Feb 1938	23.1	---	127	60*	0.20	0.257	336	---
5-2	Pedlar.....	Pedlar R.....	Oronoco, Va.....	33.2	33.1	Feb 1938	31	---	56	--	0.24	0.134	---	---
5-3	Burnt Mills.....	NW Br, Anacostia R	Silver Spring, Md.	27.0	27.0	Mar 1938	7.8	6.7	6.70	60*	6.08	0.408	533	---
5-4	Greenbelt Lake.....	Trib. of Indian Cr	Berwyn, Md.....	0.83	0.79	Feb 1938	1.6	---	236	60*	3.19	7.91	10,337	---
5-5	Staunton.....	North R.....	Staunton, Va.....	25	25	Jan 1940	14	---	15.4	---	0.22	0.034	---	---
5-6	Jackson.....	Occoquan Cr.....	Manassas, Va.....	337	335.4	Aug 1937	7.2	---	13.4	60*	1.06	0.141	184	---
5-7	Triadelphia Lake (Brighton Dam)....	Patuxent R.....	Ashton, Md.....	81.4	80.1	Oct 1950	8.3	---	248	50*	0.08	0.020	218	---
5-8	Gordon Lake.....	Evitts Cr.....	Cumberland, Md....	64	4 <u>2/</u>	Apr 1940	26.6	---	48.9	--	0.15	0.090 <u>3/</u>	---	---
5-9	Thomas W. Koon Lake.	Evitts Cr.....	Cumberland, Md....	60.0	59.6	Apr 1940	8.1	---	122	--	0.03	0.036	---	---
CHOWAN, ROANOKE, TAR, NEUSE, AND CAPE FEAR RIVER BASINS														
6-1	Lake Apex.....	Swift Cr.....	Apex, N. C.....	4.0	4.0	Jun 1941	16	---	26.5	--	0.71	0.19	---	---
6-2	Franklinton.....	Sallie Keaney Cr..	Franklinton, N. C.	1.13	1.12	May 1938	13.3	---	30.7	67	1.60 <u>4/</u>	0.509	743	---
6-3	Greensboro..... (Lake Brandt)....	Reedy Fk.....	Greensboro, N. C.	74.1	73.4	Aug 1934	11.5	---	38.7	60*	0.79	0.308	402	---
6-4	High Point..... .....DO.....	Deep R..... .....DO.....	High Point, N. C. .....DO.....	62.8 62.8	62.3 62.3	Apr 1934 Apr 1938	6.5 10.25	---	59.3 69.3	50.6 ---	0.77 0.71	0.541 0.494	596 544	---
6-5	Lake Michie.....	Flat R.....	Durham, N. C.....	167.5	166.7	Jan 1935	8.75	---	75.6	--	0.36	0.271	---	---
6-6	Sanford City.....	Lick Cr.....	Sanford, N. C.....	3.75	3.73	Jun 1941	14.33	---	27.5	--	0.54	0.150	---	---
6-7	University Lake.....	Morgan Cr.....	Chapel Hill, N. C.	30.6	30.3	Apr 1935	2.9	---	62.6	--	1.15	0.728	---	---
6-8	Roxboro City Lake..... .....DO.....	Salterfield Cr.... .....DO.....	Roxboro, N. C..... .....DO.....	7.62 7.62	7.52 7.52	Jun 1941 Nov 1946	17.2 22.6	---	69.7 69.7	-- ---	0.78 0.69 <u>5/</u>	0.548 0.499	---	---
6-9	Burlington Municipal .....DO.....	Stony Cr..... .....DO.....	Burlington, N. C. .....DO.....	105.2 105.2	105 105	May 1938 Sep 1949	10.0 21.3	---	14.1 14.1	63 ---	1.09 0.90	0.155 0.128	213 176	---
6-10	Walnut Cove.....	Dan R.....	Walnut Cove, N. C.	397	397	Apr 1932	9	357,000	2	43*	8.73	0.214	200	164

PEE DEE, SANTEE, AND EDISTO RIVER BASINS

7-1	Chester.....	Sandy R.....	Chester, S. C.....	16.05	15.92	Oct 1937	11	---	42	---	1.29	0.55	---	---
7-2	Lancaster.....	Turkey Quarter Cr..	Lancaster, S. C..	9.40	9.34	Jun 1938	13.4	---	25.7	65.3	1.61	0.417	593	---
7-3	Spartanburg Municipal	South Pacolet R....	Fingerville, S. C.	91.33	90.8	Jul 1934	8.2	---	38.4	---	1.07	0.412	---	---
	.....DO.....	.....DO.....	.....DO.....	91.33	90.8	Mar 1947	20.9	---	38.4	---	0.84	0.324	---	---
7-4	Appalachie.....	South Tyger R.....	Greer, S. C.....	63.0	62.8	Jul 1934	30	---	40	---	1.2	0.48	---	---
7-5	Albemarle City Lake	Long Creek.....	Albemarle, N. C..	33.0	32.5	Aug 1939	15.5	---	32.4	---	0.92	0.302	---	---
7-6	Cannon Lake.....	Buffalo Cr.....	Kannapolis, N. C..	18.0	17.7	Jun 1941	1.9	---	144	---	0.53	0.774	---	---
7-7	Lake Concord.....	Chambers & Rose Br.	Xannapolis, N. C..	4.7	4.54	May 1935	10.2	---	256	---	0.65	1.71	---	---
7-8	Entwhistle No.3....	Hitchcock Cr.....	Roberdell, N. C..	168	18.0	Mar 1940	48	---	1.10	---	0.24	0.024	---	---
7-9	Eury.....	Little R.....	Troy, N. C.....	269	269	Mar 1940	25	---	4.10	---	0.46	0.019	---	---
7-10	High Rock.....	Yadkin R.....	Salisbury, N. C..	3,930	3,863	Aug 1935	7.8	---	73.6	---	0.62	0.462	---	---
7-11	Lake Lee.....	Richardson Cr.....	Monroe, N. C.....	50.50	50.34	Jun 1938	11.1	---	16.3	61.8	1.85	0.302	406	---
7-12	Pee Dee MF. Co.....	Hitchcock Cr.....	Rockingham, N. C..	176	25	Mar 1940	66	---	2.64	---	0.20	0.036	---	---
7-13	Salem.....	Salem Cr.....	Winston-Salem, N. C.....	27.68	27.26	Sep 1939	19.8	---	112	38.0	0.39	0.444	367	---
7-14	Norwood Lake.....	Pee Dee R.....	Mt. Gilead, N. C..	4,600	431	Mar 1940	11.75	---	30	---	0.22	0.696	---	---
7-15	Lexington.....	Leonards Cr.....	Lexington, N. C..	6.75	6.66	Apr 1940	4.6	---	68.4	45.5	1.00	0.692	685	---
	.....DO.....	.....DO.....	.....DO.....	6.75	6.66	May 1951	15.7	---	68.4	45.5*	0.60	0.414	410	---

SAVANNAH, OGEECHEE, AND ALTAMAHA RIVER BASINS

8-1	Lake Issaqueena....	Six Mile Cr.....	Clemson, S. C. ...	14.02	13.84	Apr 1941	2.9	---	131	49.8	1.67	2.22	2,410	---
	.....DO.....	.....DO.....	.....DO.....	14.02	13.86	Oct 1949	11.4	---	131	50.9	1.01	1.33	1,470	---
8-2	Lloyd Shoals.....	Ocmulgee R.....	Jackson, Ga.....	1,414	1,407	Mar 1935	24.3	---	79.6	60*	0.51	0.408	533	---

SATILLA, ST. MARYS, ST. JOHNS, AND SUNANNEE RIVER BASINS

9-

SOUTHERN FLORIDA DRAINAGE

10-

APALACHICOLA AND OCHLOCKNEE RIVER BASINS

11-1	Newnan.....	Bolton Mill Cr.....	Newnan, Ga.....	1.39	1.34	Nov 1937	13.4	---	276	50*	0.51	1.45	1,580	---
	.....DO.....	.....DO.....	.....DO.....	1.39	1.34	Feb 1945	20.7	---	276	50*	0.38	1.08	1,180	---

CHOCTAWHATCHEE, YELLOW, ESCAMBIA, AND ALABAMA RIVER BASINS

12-1	Sequoyah.....	Small Brs.....	Jasper, Ga.....	1.60	1.51	Jul 1939	10.0	---	556	--	0.28	1.66	---	---
12-2	White Manganese No. 6	Pettit Cr.....	Cartersville, Ga..	12.46	11.0	Nov 1938	9.2	---	81.9	63.7	1.29	1.20	1,660	---
12-3	Lake Auburn.....	Trib. of Town Cr....	Auburn, Ala.....	1.6	1.6	Jun 1937	6.3	---	63.8	---	1.04	0.66	---	---
12-4	Lay.....	Coosa R.....	Clanton, Ala.....	9,087	9,076.5	May 1936	22.3	11,240,300	17.2	---	0.52	0.089	---	---
12-5	Lake Purdy.....	Little Cahaba R.....	Birmingham, Ala....	41.74	40.22	Nov 1935	25.2	---	457	---	0.10	0.479	---	---

1/ Includes estimated 112 acre feet passing through Shandaken Tunnel.

2/ Koon Lake, upstream, was built in 1932.

3/ Based on total sediments in both Gordon Lake and Koon Lake.

4/ Based on total of 7.4 acre feet of sediment remaining in reservoir; 0.2 acre foot of sand removed in 1933.

5/ Excluding 2.0% acre feet of sediment dredged from lake in March 1942.

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				TOTAL	NET							AC FT	TONS	
TOMBIGBEE, PASCAGOULA, AND PEARL RIVER BASINS														
13-1	Bayview.....	Village Cr.....	Birmingham, Ala.....	72.3	71.6	Dec 1935	24.6	---	164	---	0.81	1.34	---	---
13-2	Lake Harris.....	Yellow Cr.....	Tuscaloosa, Ala.....	30.0	29.8	Nov 1935	6.75	---	80.7	---	0.29	0.237	---	---
LOWER MISSISSIPPI RIVER BASIN (NATCHEZ TO THE MOUTH) Calcasieu, Mermentau, and Vermilion River Basins														
14-														
LOWER MISSISSIPPI RIVER BASIN (HELENA TO NATCHEZ) Uazoo, Big Black, and Ouachita River Basins														
15-1	Lake Hamilton.....	Ouachita R.....	Hot Springs, Ark....	1,421	1,413.4	May 1950	19.4	---	110	50 *	0.10	0.11	120	---
15-2	Lake Winona.....	Alum Fk., Saline R... Trib of Coldwater R..	Little Rock, Ark.... Holly Springs, Miss.	43.0 0.0097	41.2 0.0089	May 1950 Jan 1951	12.6 3.3	---	303 150	50 * 63.6	0.04 8.03	0.37 13.1	403 18,200	---
15-3	O. P. White Pond.....	Trib of Chewalla Cr..	Holly Springs, Miss.	0.0625	0.0597	Jan 1951	4	---	192	60.1	7.61	15.3	20,600	---
15-4	B. H. Honnesucker Pond	Trib of Coldwater R..	Slayden, Miss.....	0.244	0.234	Jan 1951	4.1	---	149	62.9	5.00	7.78	10,700	---
15-5	C. S. Hurdle Pond.....	Trib of Coldwater R..	Holly Springs, Miss.	0.0878	0.0851	Jan 1951	2.3	---	184	67.5	6.34	12.4	18,200	---
15-6	Agnes Jones Pond.....	Trib of Red Banks Cr.	Holly Springs, Miss.	0.0933	0.0784	Jan 1951	2.3	---	214	76.1	7.30	16.6	27,500	---
15-7	Lee Johnson Pond.....	Trib of Red Banks Cr.	Holly Springs, Miss.	0.0933	0.0128	Jan 1951	8.5	---	177	84.2	6.46	12.4	22,800	---
15-8	P. T. Alexander.....	Trib of Coldwater R..	Holly Springs, Miss.	0.4153	0.3663	Feb 1951	17	---	737	61.6	0.96	8.03	10,800	---
15-9	Lake Shakkoka.....	Trib of Camo Cr.....	Olive Branch, Miss..	0.5045	0.4797	Feb 1951	6.0	---	186	29.9	2.82	5.52	4,800	---
15-10	Lake Koodland.....	Trib of Camo Cr.....	Olive Branch, Miss..	0.1019	0.0954	Feb 1951	9.0	---	156	66.8	2.69	4.48	6,520	---
15-11	C. L. Patton Pond.....	Trib of Red Banks Cr.	Warsaw, Miss.....	0.0156	0.0116	Feb 1951	35	---	788	63.3	0.62	6.55	9,040	---
15-12	G. B. Lanston, Jr..... Pond.....	Trib of Red Banks Cr.	Warsaw, Miss.....	0.0406	0.0389	Feb 1951	4.0	---	114	63.0	10.5	12.5	17,100	---
15-13	Fletcher Hurdle Pond (North).....	Trib of Byhalla Cr... Victoria, Miss.....	Victoria, Miss.....	0.0297	0.0279	Feb 1951	4	---	185	83.0	8.54	16.8	30,400	---
15-14	Fletcher Hurdle Pond (South).....	Trib of Guffawa Cr... Holly Springs, Miss.	Holly Springs, Miss.	0.0242	0.0236	Feb 1951	2.7	---	189	78.8	12.9	26.0	44,600	---
15-15	C. C. Stevenson Pond..	Trib of Mississippoi.. Horn Lake, Miss.....	Horn Lake, Miss.....	0.2633	0.2196	Feb 1951	9.0	---	267	51.8	1.09	3.13	3,530	---
15-16	Gayoso Lake.....	Trib of Tobitubby Cr. Oxford, Miss.....	Oxford, Miss.....	0.0075	0.0067	Feb 1951	35	---	217	58.7	0.98	2.39	3,060	---
15-17	Ben O. Pettis Pond.....	Trib of Hudson Cr.... Oxford, Miss.....	Oxford, Miss.....	0.0450	0.0418	Mar 1951	23	---	221	55.7	1.41	3.35	4,070	---
15-18	C. D. Williams Pond..	Trib of Yocona R..... Taylors, Miss.....	Taylors, Miss.....	0.0239	0.0210	Mar 1951	4.5	---	187	47.7	9.62	20.5	21,300	---
15-19	R. X. Williams.....	Trib of Sartor Cr.... Oxford, Miss.....	Oxford, Miss.....	0.1375	0.1289	Mar 1951	18.2	---	225	41.8	1.08	2.61	2,370	---
15-20	Henry W. Ramsey Pond..	Trib of Yocona R..... Oxford, Miss.....	Oxford, Miss.....	0.8672	0.8131	Mar 1951	14.2	---	262	37.4 *	0.40	1.12	913	---
15-21	Dr. Bramlett Pond.....	Trib of Pumpkin Cr... Batesville, Miss....	Batesville, Miss....	0.0456	0.0398	Mar 1951	6.0	---	382	52.0	0.718	3.14	3,560	---
15-22	A. S. Kyle Pond.....	Trib of Pigeon Roost. Cr.....	Holly Springs, Miss.	0.0278	0.0264	Mar 1951	3.7	---	136	67.6	3.43	4.89	7,200	---
15-23	Ben P. Smith Pond.....	Trib of Arkabutla Cr. Arkabutla, Miss.....	Arkabutla, Miss.....	0.1563	0.1458	Mar 1951	5.5	---	195	49.9 *	0.93	1.95	2,120	---
15-24	A. L. Roodman Pond.....	Trib of Hurricane Cr. Eudora, Miss.....	Eudora, Miss.....	0.0644	0.0566	Mar 1951	5.2	---	357	43.7 *	0.89	3.60	3,420	---
15-25	Charles Dockery Pond..	Coldwater R.....	Arkabutla, Miss.....	1,000	948	Dec 1947	6.3	521,400	525	--	0.114	0.630	---	---
15-26	Arkabutla.....													
LOWER MISSISSIPPI RIVER BASIN (CHESTER TO HELENA) St. Francis River Basin														
16-1	Grisham.....	Lost Creek.....	Bismark, Mo.....	0.46	0.45	Jul 1939	8.8	618/sq mi *	52.3	75.4	2.12	1.133	1,860	2,800 *
16-2	Mountain Lake.....	Trib of Rings Cr....	Patterson, Mo.....	1.90	1.87	Jul 1939	12	---	46.2	54.8	0.45	0.213	254	---
16-3	Shepard Mountain.....	Trib of Stouts Cr....	Ironton, Mo.....	3.99	3.96	Jul 1939	10.0	---	42.9	64	0.78	0.338	471	---
16-4	Loch Mary.....	Brown Cr.....	Earlington, Ky.....	3.81	3.65	Dec 1908	20	---	322	60 *	0.18	0.600	784	---
16-5	Carbondale.....	Piles Fk.....	Carbondale, Ill.....	3.00	2.77	Sep 1948	22.1	---	462	73.9	0.63	3.15	5,070	---
16-6	Dering Coal Co. Pond..	Trib of Wolf Cr.....	Eldorado, Ill.....	0.219	0.206	Oct 1949	30.0	---	408	76 *	0.61	2.64	4,370	---
16-7	Eldorado.....	Wolf Cr.....	Eldorado, Ill.....	2.23	1.87	Oct 1949	29	---	378	67 *	0.48	2.18	3,180	---
16-8	West Frankfort.....	Tilley Cr.....	West Frankfort, Ill.	4.03	3.75	Sep 1936	10.1	---	399 1/	--	0.57 1/	2.46	---	---
16-8	.....DO.....	.....DO.....	.....DO.....	R.P	3.75	Jul 1949	22.9	---	399 1/	--	0.33 2/	1.40	---	---

16-9	Pineview (Lower).....	South FK Jonaca Cr...	Farmington, Mo.....	0.63	0.07	1959	7	---	13.9	60*	1.12	1.43	1,870	---
16-10	Pineview (Middle).....	South FK Jonaca Cr...	Farmington, Mo.....	0.56	0.06	1939	9	---	55	60*	0.65	3.3	4,310	---
16-11	Pineview (Upper).....	South FK Jonaca Cr...	Farmington, Mo.....	0.49	0.48	1938	10	583/sq mi*	16.7	65*	3.41	0.583	825	1,900*
16-12	Killarnay.....	Big Cr.....	Annapolis, Mo.....	51	51	1939	29	---	16	60*	0.83	0.133	174	---
16-13	Maopapello.....	St. Francis R.....	Poplar Bluff, Mo....	1,310	1,206	Jul 1947	7.0	1,167,000	447	---	0.008	0.041	---	---

OHIO RIVER BASIN (MADISON TO UNIONTOWN)

Wabash River Basin

17-1	Huntingburg (Upper)...	Trib of Patoka R.....	Huntingburg, Ind....	0.67	0.63	Oct 1940	46.3	774/sq mi*	204	40*	0.28	0.617	536	500
17-2	Oakland City #2.....	So. FK. Patoka R.....	Oakland City, Ind....	0.54	0.40	Sep 1940	19.0	806/sq mi*	1,898	40*	0.08	1.97	1,720	1,500*
17-3	Shafer Lake.....	Tippecanoe R.....	Monticello, Ind....	1,700	1,698	Aug 1940	17.2	507/ sq mi*	8.7	75*	0.27	0.023	38	190*
17-4	Spring Mill.....	Mill Creek.....	Mitchell, Ind.....	15.03	5.29	3/Sep 1948	9.9	---	11.8	67*	2.90	0.975	1,420	---
17-5	Greendale Lake.....	Connor's Branch.....	Xenia, Ill.....	25.1	25.0	Sep 1940	13.1	540/sq mi*	12.2	70*	1.14	0.146	213	600*
17-6	Ridge Lake.....	Trib. of Embarrass R.	Charleston, Ill.....	1.41	1.38	Sep 1947	6.4	---	133	72.4	1.29	1.75	2,760	---
17-7	Vermilion Lake.....	N. Fk. Vermilion R...	Danville, Ill.....	267	266	Oct 1940	25.3	532/sq mi	32.4 <u>4</u>	70*	0.55	0.179	273	600*

TENNESSEE RIVER BASIN (BELOW HALES BAR DAM)

Cumberland and Green River Basins

18-1	Radnor Lake.....	Other Creek.....	Nashville, Tenn....	2.1	2.0	Nov 1940	25.7	---	625	--	0.10	0.660	---	---
18-2	Lake Tandy.....	Little River.....	Hopkinsville, Ky....	9.0	8.9	Jan 1941	34	---	83.7	--	0.79	0.667	---	---
18-3	Great Falls.....	Caney Fork.....	Rock Island, Tenn...	1,675	1,671	Sep 1935	18.8	---	---	---	---	---	---	---
	Do.....	Do.....	Do.....	1,675	1,671	Aug 1947	30.7	---	---	---	---	---	---	---
18-4	Guntersville.....	Tennessee R.....	Guntersville, Ala...	24,450	2,550	Nov 1940	1.8	23,971,888	---	55*	0.32	1.280	1,533	120
	Do.....	Do.....	Do.....	24,450	2,550	Jun 1947	8.4	25,276,338	---	55*	0.32	1.280	1,533	114
18-5	Wheeler.....	Tennessee R.....	Town Creek, Ala....	29,590	5,033	Jun 1947	10.7	31,719,544	---	55*	0.55	---	---	175
18-6	Wilson.....	Tennessee R.....	Florence, Ala.....	30,750	1,135 <u>5</u>	Dec 1928	4.6	34,253,591	---	53	1.16 <u>6</u>	0.852	984 <u>7</u>	189 <u>7</u>
	Do.....	Do.....	Do.....	30,750	1,135 <u>5</u>	Dec 1931	7.6	34,361,243	---	53	1.16 <u>6</u>	0.853	985 <u>7</u>	188 <u>7</u>
	Do.....	Do.....	Do.....	30,750	1,135 <u>5</u>	Dec 1936	12.6	36,055,995	---	53	1.13 <u>6</u>	0.833	962 <u>7</u>	175 <u>7</u>
	Do.....	Do.....	Do.....	30,750	1,135 <u>5</u>	Sep 1946	22.4	34,084,426	---	53	0.65 <u>6</u>	---	---	107 <u>7</u>
	Do.....	Do.....	Do.....	30,750	1,135 <u>5</u>	Jun 1951	27.1	35,317,324	---	53	---	---	---	---
18-7	Pickwick Landing.....	Tennessee R.....	Pickwick, Tenn.....	32,820	1,997	Sep 1946	8.6	33,252,195	---	53*	0.143	0.780	900	40
	Do.....	Do.....	Do.....	32,820	1,997	Jun 1951	13.3	37,601,934	---	53*	---	---	---	---
18-8	Kentucky.....	Tennessee R.....	Gilbertsville, Ky...	40,200	7,132	Aug 1946	2.0	51,471,288	---	---	---	---	---	---
	Do.....	Do.....	Do.....	40,200	7,132	May 1951	6.7	56,219,976	---	---	---	---	---	---

OHIO RIVER BASIN (POINT PLEASANT TO MADISON)

Kanawha, Big Sandy, Licking, Kentucky, Scioto, and Miami River Basins

19-1	Lake Placid.....	Unnamed Stream.....	Lancaster, Ky.....	0.2	0.2	Sep 1941	38.9	---	570	--	0.44 <u>8</u>	2.50 <u>8</u>	---	---
19-2	Radford.....	Little River.....	Radford, Va.....	329	329	Jul 1944	10	---	5	70*	3.8	0.191	291	---
19-3	Englewood.....	Stillwater R.....	Dayton, Ohio.....	651	639	1942	15	565/sq mi*	479	77.5	0.008	0.037	63	290
19-4	Germantown.....	Twin Creek.....	Germantown, Ohio....	270	264	1942	15	648/sq mi*	393	79.5	0.024	0.097	168	700
19-5	Griggs.....	Scioto R.....	Columbus, Ohio.....	1,053	1,052	1935	30	---	4.3	65*	0.47	0.020	28	---
19-6	Ohio Cons. Pond #73...	Blacklick Creek.....	Columbus, Ohio.....	24	24	Jun 1939	2.6	---	0.2	--	17.7	0.035	---	---
19-7	Ohio Cons. Pond #74...	Blacklick Creek.....	Columbus, Ohio.....	23	23	Nov 1939	2.8	---	0.04	--	17.9	0.008	---	---
19-8	Lake White.....	Pee Pee Cr.....	Waverly, Ohio.....	37.4	36.9	Dec 1947	12	---	99.8	--	0.88	0.894	---	---
19-9	Herrington Lake.....	Dix River.....	Harrodsburg, Ky....	437	431	Oct 1941	16	---	593	--	0.08	0.471	---	---
19-10	Walton.....	Bank Lick Creek.....	Walton, Ky.....	0.25	0.24	1937	6	---	512	50*	0.84	4.46	4,860	---
19-11	Williamstown.....	Grassy Creek.....	Williamstown, Ky....	0.47	0.47	1937	7	---	240	---	0.89	2.13	---	---
19-12	Byllesby.....	New River.....	Byllesby, Va.....	1,310	1,310	May 1936	23.7	---	6.79	--	2.54	0.184	---	---
19-13	O'Shaughnessy.....	Scioto R.....	Columbus, Ohio.....	988	987	Nov 1934	9	---	16.9	65*	0.71	0.121	171	350*
	Do.....	Do.....	Do.....	988	987	Dec 1942	17	673/sq mi	16.9	65*	0.76	0.128	181	---

1/ Spillway crest raised from 439 ft. m.s.l. to 441.77 ft. m.s.l. in April 1943. All data computed on basis of 441.77 ft. at spillway elevation.

2/ Net sediment volume in 1949. The 93.3 acre feet of sediment deposited prior to 1936 had compacted, due to exposure to 75.7 acre feet.

3/ The non-contributing drainage area is chiefly closed, or plugged limestone sinkholes.

4/ In July 1925. In June 1915, Spillway elevation was 5 feet lower and c/w ratio was 4.6.

5/ Sediment contributing area reduced by closing Wheeler Dam on Oct 3, 1936, to 1155 sq. mi.

6/ Based on original volume in the reach from Wilson Dam to Wheeler Dam and to the elevation of top of gates after being raised in 1942.

7/ Based on drainage area below Hales Bar Dam (8,935 sq. mi.)

8/ Includes sediment dredged in 1930 amounting to 61 percent of tabulated values.

\* Estimated or assumed.

**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
<b>TENNESSEE RIVER BASIN (ABOVE HALES BAR DAM)</b>														
20-1	South Holston	So. Fk. Holston R.	Bristol, Tenn.	703	691	---	---	---	908 1/2	--	---	---	---	---
20-2	Watauga	Watauga R.	Hampton, Tenn.	468	458	---	---	---	1,218 1/2	--	---	---	---	---
20-5	Cherokee	Holston R.	Jefferson City, Tenn	3,429	3,381 2/3	Apr 1949	7.4	2,076,393	455	55 *	0.054	0.248	297	240
20-6	Molichucky	Molichucky R.	Greeneville, Tenn.	1,183	1,182	Feb 50	24.5	---	---	50	1.28 3/4	0.252	274.4	---
	.....DO.	.....DO.	.....DO.	1,183	1,182	Apr 1947	33.7	---	---	50	1.24 3/4	0.245	266.8	---
20-7	Douglas	French Broad R.	Sevierville, Tenn.	4,541	2,854	Jul 1949	6.4	4,800,601	---	55 *	0.16	0.850	1,018.2	445
20-8	Fort Loudoun	Tennessee R.	Lenoir City, Tenn.	9,550	1,556	Nov 1946	3.3	9,364,713	---	---	---	---	---	---
	.....DO.	.....DO.	.....DO.	9,550	1,556	Jun 1951	7.9	9,639,922	---	---	---	---	---	---
20-9	Thorpe	W. Fk. Tuckasegee R.	Glennville, N. C.	36.7	34.4	---	---	---	---	---	---	---	---	---
20-10	Mantahala	Mantahala	Aquone, N. C.	91	88	---	---	---	---	---	---	---	---	---
20-11	Fontana	Little Tennessee R.	Fontana, N. C.	1,571	1,426	Mar 1950	5.4	3,000,312	---	55 *	0.041	0.417	499.5	175
20-12	Cheoah	Little Tennessee R.	Taboco, N. C.	1,608	1,607	Sep 1930	11.8	---	27	55 *	0.96	0.264	316.2	---
	.....DO.	.....DO.	.....DO.	1,608	1,607	Aug 1941	22.7	---	---	55 *	0.90	0.246	294.7	---
20-13	Caryville	Cove Cr.	Caryville, Tenn.	35.98	35.65	Nov 1938	2	---	47 4/4	62	1.76 4/4	0.842	1,137	---
	.....DO.	.....DO.	.....DO.	35.98	35.65	Jan 1947	10.2	---	---	62	0.82 4/4	0.393	530.7	---
20-14	Horris	Clinch R.	Horris, Tenn.	2,912	2,823	Jun 1946	10.3	2,656,901	702 5/4	55 *	0.052	0.376	450.4	252
20-15	Watts Bar	Tennessee R.	Spring City, Tenn.	17,310	2,925	Oct 1946	4.8	18,775,397	---	---	---	---	---	---
	.....DO.	.....DO.	.....DO.	17,310	2,925	Jun 1951	9.5	19,898,404	---	---	---	---	---	---
20-16	Chatuce	Hiwassee R.	Havesville, N. C.	189	178	Aug 1949	7.5	322,744	1,311 4/4	55 *	0.023 4/4	0.215	377.3	152
20-17	Nottely	Nottely R.	Blairsville, Ga.	214	207	Aug 1949	7.6	289,193	862 4/4	55 *	0.07 4/4	0.623	746.3	394
20-18	Hiwassee	Hiwassee R.	Murphy, N. C.	968	529 5/4	Aug 1947	7.5	1,259,555	---	55 *	0.136 6/4	---	---	417
20-19	Apalachia	Hiwassee R.	Farner, Tenn.	1,018	48	Aug 1950	7.5	1,540,473	---	55 *	0.07	0.854	1,023	24
20-20	Blue Ridge	Toccoa R.	Blue Ridge, Ga.	232	227	Apr 1944	13.4	---	851	---	---	---	---	---
20-21	Ocoee No. 3	Ocoee R.	Ducktown, Tenn.	496	263	Jul 1945	2.9	630,693	---	64	4.22 2/4	2.293 2/4	3,196.3 2/4	981
	.....DO.	.....DO.	.....DO.	496	263	Nov 1946	4.2	780,019	---	64	4.15	2.259	3,148.9	781
	.....DO.	.....DO.	.....DO.	496	263	Aug 1948	6.0	758,795	---	64	3.92	2.129	2,967.7	757
	.....DO.	.....DO.	.....DO.	496	263	Aug 1950	8.0	810,455	---	64	3.41	1.856	2,587.1	617
20-22	Ocoee No. 1	Ocoee R.	Parksville, Tenn.	595	96 8/4	Oct 1940	28.8	1,003,120	---	64	0.57	---	---	636
	.....DO.	.....DO.	.....DO.	595	96 8/4	Sep 1949	37.7	981,662	---	64	0.55	---	---	622
20-23	Chickamauga	Tennessee R.	Chattanooga, Tenn.	20,790	1,805 9/4	Nov 1940	.8	17,052,709	---	60	0.31	---	---	124
	.....DO.	.....DO.	.....DO.	20,790	1,805 9/4	Jul 1947	7.5	21,337,800	---	60	0.31	---	---	99
20-24	Hales Bar	Tennessee R.	Jasour, Tenn.	21,790	990	Oct 1930	17	27,611,594	---	61	0.95	---	---	64
	.....DO.	.....DO.	.....DO.	21,790	990	Oct 1935	22	26,811,325	---	61	0.89	---	---	62
	.....DO.	.....DO.	.....DO.	21,790	990	Oct 1940	27	26,386,179	---	61	0.73	---	---	52
	.....DO.	.....DO.	.....DO.	21,790	990	Jul 1947	33.7	25,600,526	---	61 *	0.6	---	---	44
<b>OHIO RIVER BASIN (ABOVE POINT PLEASANT) AND LAKE ERIE DRAINAGE</b>														
21-1	Pleasant Hill	Clear Fork	Perrysville, Ohio	199	195	Feb 1945	6.25	120,257	441	65 *	0.05	0.227	321	383
21-2	Seneca	Seneca Fork	Seneca, Ohio	121	113	Mar 1945	8.3	99,991 10/4	731	65 *	0.113	0.89	1,260	1,356
21-3	Charles Mill	Black Fork	Mansfield, Ohio	216	207	Sep 1946	8.25	112,200	407	65 *	0.29	1.24	1,755	2,380
21-4	Hinckston Run	Hinckston Run	Johnstown, Pa.	10.75	10.57	Sep 1937	32	---	---	321	60 *	0.12	0.408	533
21-5	Quemahoning	Quemahoning Cr.	Johnstown, Pa.	92	90.7	Sep 1937	25.8	---	---	384	---	6.10	0.377	---
21-6	Salt Lick	Salt Lick Run	Johnstown, Pa.	11.86	11.76	Sep 1937	23	---	---	210	60 *	0.1	0.22	287
21-7	Bridgeport (Upper)	Jacobs Cr.	Mt. Pleasant, Pa.	32.5	32.38	Nov 1927	50.6	---	---	18.8	---	0.51	0.097	---
21-8	Barberton	Wolf Cr.	Barberton, Ohio	28.2	28	Dec 1938	12	770/sq mi *	72.9	55 *	1.49 11/4	1.10	1,320	1,400 *
21-9	Buckeye Lake	So. Fk. Licking R.	Millersport, Ohio	49.2 15/4	45.1	Jul 1939	107	---	---	405	50 *	0.19	0.860	937
21-10	Leesville	McGuire Cr.	Leesville, Ohio	48.0	45.7	Nov 1939	3.3	840/sq mi *	779	50 *	0.01	0.067	73	---
21-11	Muskingum College	Trib. of Muskingum R.	New Concord, Ohio	0.32	0.31	Nov 1935	20	672/sq mi *	29.4	70 *	1.25	0.381	581	600 *
21-12	Ohio Cons. Pond #22	Trib. of Duck Cr.	Marietta, Ohio	0.05	0.05	Feb 1939	1.1	869/sq mi *	88.6	40 *	4.51	4.0	3,485	3,200 *
21-13	Ohio Cons. Pond #51	Trib. of Ohio R.	Marietta, Ohio	0.13	0.13	Nov 1939	1.1	869/sq mi *	117	40 *	0.84	0.977	851	800 *
21-14	Ohio Cons. Pond #52	Trib. of Ohio R.	Marietta, Ohio	0.17	0.16	Nov 1939	11	738/sq mi *	106	50 *	1.29	1.45	1,579	1,900 *
21-15	Robbins Lake	Ford Creek	Hartford, Ohio	4.47	4.45	Dec 1939	17.4	725/sq mi *	20.5	68 *	0.73	0.151	224	320 *
21-16	Gorleys Lake	Trib. of Youghiogheny	Uniontown, Pa.	3.00	2.97	Jun 1939	30	---	---	50	60	0.27	0.135	176
21-17	Lake Rockwell	Cuyahoga R.	Kent, Ohio	205.5	124.1 14/4	Aug 1950	36	---	---	36.1	46	0.2	0.12	120
21-18	Stoney Lake	McGuire Cr.	Perrysville, Ohio	8.57	8.54	Dec 1938	11	---	---	14.1	65 *	3.1	0.438	620
	.....DO.	.....DO.	.....DO.	8.57	8.54	Apr 1949	21.4	647/sq mi *	14.1	65 *	2.33	0.329	466	1,400 *
21-19	Tabor Club Lake	Small Br. Muskingum R	Perrysville, Ohio	0.55	0.54	Nov 1938	15	670/sq mi *	97.5	50 *	1.39 15/4	1.38	1,500	1,900 *

21-20	Zanesville Nursery L.	No. Br. Blount Run...	Zanesville, Ohio....	2.95	2.93	Jul 1941	4.6	987/sq mi *	26	65 *	1.25 16/	0.325	462	---
21-21	Tionesta Creek.....	Tionesta Cr.....	Tionesta, Pa.....	478	474	Sep 1949	8.6	606,000	268 17/	100 *	0.076	0.204	444	244
21-22	Loyalhanna Creek.....	Loyalhanna Cr.....	Saltsburg, Pa.....	291	286	Oct 1948	5.3	333,200	328 17/	100 *	0.115	0.3762	819	527
21-23	Mahoning Creek.....	Mahoning Cr.....	Dayton, Pa.....	339	335	Aug 1948	7.3	442,300	219 17/	100 *	0.073	0.160	348	200
21-24	Crooked Creek.....	Crooked Cr.....	Ford City, Pa.....	278	275	Sep 1945	4.8	290,000	324 17/	100 *	0.022	0.069	150	102
21-25	Tvoart River.....	Tvoart R.....	Grafton, W. Va.....	1,183	1,178	Feb 1945	7.0	1,509,800	245 18/	100 *	0.019	0.0465	101.3	55
21-26	Youghiogheny R.....	Youghiogheny R.....	Confluence, Pa.....	434	428	Oct 1949	6.0	621,000	569 19/	100 *	0.059	0.342	745	378
21-27	Atwood.....	Indian Fk.....	Sherrodsville, Ohio.	70	66.2	Dec 1946	6.7	51,150	710	65 *	0.039 20/	0.29	410	395

GREAT LAKES DRAINAGE (IN MICHIGAN) AND MAHNEE RIVER BASIN

22-1	Grand 21/.....	St. Marys & Wabash R.	Celina, Ohio.....	118	93	Aug 1940	96	503/sq mi *	1,103 22/	55 *	0.19	2.64	3,162	4,600 *
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GREAT LAKES DRAINAGE (IN MICHIGAN & WISCONSIN)

23-

MISSISSIPPI RIVER BASIN (LOUISIANA TO CHESTER)  
ILLINOIS, KASKASKIA, AND MERAMEC RIVER BASINS

24-1	Arctic Pond.....	Trib. of Honey Cr....	Carlville, Ill....	0.53	0.51	Jul 1949	27	---	331	50 *	0.34	1.17	1,270	---
24-2	Lake Bloomington.....	Honey Cr.....	Hudson, Ill.....	61	60	Aug 1948	18.7	---	109	41.5	0.48	0.532	481	---
24-3	Lake Carlville.....	Honey Cr.....	Carlville, Ill....	26.06	25.79	Jul 1949	10.4	---	66.2	50	1.40	0.934	1,020	---
24-4	Lake Decatur.....	Sangamon R.....	Decatur, Ill.....	906	902	Jun 1936	14.2	539,000	21.8	---	1.00	0.22	248	---
	.....	.....	.....	906	902	Jun 1946	24.2	509,000	21.8	51.7	1.08	0.237	267 23/	430
24-5	Shaefer Pond.....	Trib. of Cahokia Cr..	Edwardsville, Ill..	0.087	0.083	Jul 1949	11.8	---	232	50 *	1.09	2.65	2,890	---
24-6	Lake Springfield.....	Sugar & Lick Creeks..	Springfield, Ill..	26.5	25.8	Aug 1948	14.6	---	230	43	0.30	0.705	660	---
24-7	Spring Lake.....	Spring Cr.....	Macombe, Ill.....	20.2	20.1	Sep 1947	20.4	---	30 24/	59.7	2.32	0.701	911	---
24-8	Lake Bracken.....	Brush Cr.....	Galesburg, Ill.....	9.14	8.85	Aug 1936	12.7	---	315	52	0.60	1.97	2,231	---
	.....	.....	.....	9.14	8.85	Jun 1949	25.6	---	315	52	0.58	1.90	2,152	---
24-9	Pittsfield.....	Trib. of Panther Cr..	Pittsfield, Ill....	1.84	1.77	Dec 1946	21.5	417/sq mi *	199 25/	40 *	1.71	3.55	3,090	5,800 *
24-10	Navigation Pool #25 (Winfield Dam).....	Mississippi R.....	Winfield, Mo.....	142,600	26/	Nov 1947	8.33	62,732,590	---	70	1.31	--	---	---

1/ Based on capacity at base of flood control pool (top of multiple use).

2/ Includes area above Watauga Reservoir which closed Dec. 1, 1948.

3/ Based on original volume as of 1925 computed from probings obtained Feb. 1938. Capacity is at top of 5-foot flashboards. Prior to 1925 dam was 35 feet lower.

4/ Based on storage at top of flashboards.

5/ Excludes Caryville Reservoir on Cove Creek arm. Note 1/ also applies.

5a/ Areas and volumes do not include Persimmon Creek Lake. Nottely Reservoir closed 24 Jan. 1942. Chatuge Reservoir closed 12 Feb. 1942.

6/ Based on reservoir capacity excluding Persimmon Creek Lake

7/ All values for this reservoir exclude 553 acre feet (3.86 percent of reservoir capacity) flushed into reservoir in March 1944 by failure of a small retention dam.

8/ Blue Ridge Reservoir closed Dec. 6, 1930. Ocoee No. 3 closed Aug. 15, 1942.

9/ Sediment contributing area reduced by closing Watts Bar Dam Jan. 1, 1942.

10/ Based on 6.4 years of record. Data not available for 1937 and 1938.

11/ Some dredging since 1934.

12/ Drainage area has been 115 square miles (net) part of the time in the East, when fed partly by feeder from S. Fork Kerkersville River.

13/ At present spillway elevation (lowered 0.8 foot in 1908). From 1836 to 1908 C/W ratio was 449. From 1832 to 1836, spillway elevation was lower.

Originally, the lake was a natural lake. Lake originally used as feeder for Ohio canal system.

14/ East Branch Res. and many natural lakes act as efficient sediment traps.

15/ Dam failed earlier in 1938, but little sediment lost.

16/ Sediment, deposited during flood of July 7, 1941 was 1.64 acre feet of the total storage loss of 4.39 acre feet.

17/ For flood control pool. The sediment ranges cover the reach of the conservation pool. No deposits were observed above a level 10 feet above the conservation pool.

18/ Range lines have not been established in the upstream 40 percent of the reservoir. In the survey, no deposits were observed above the limit of the low-water regulation pool (elev. 1094).

19/ At spillway crest full pool considered to be 2 ft. above spillway crest (C/W ratio 585). Ranges cover only a portion of low-flow regulation pool. Deposits in remaining portion were

so small that they were hardly measurable.

20/ Conservation pool was raised 14 ft. in June 1947. Reservoir was empty Nov and Dec 1946 following drawdown in Oct. Some sediment may have been washed out of reservoir during drawdown, as channel below dam was filled with sediment. Sediment was predominately a fine silt with some coarse silt and sand. Original wet color was dark with a purple tinge, which changed to tan when dry.

21/ Drains into both Wabash River and Lake Erie. Originally built as a canal feeder lake. Also known as Lake St. Marys.

22/ At present spillway elevation (lowered 5.37 ft. in 1856). In 1844 C/W ratio was 1870.

23/ Turbidity records indicate that an average of 75 tons annually per square mile of drainage area have passed over spillway. Total annual sediment load per square mile, 1922-46 was 341 tons. Trap eff. 78%.

24/ At top of 13 ft. flashboards added in 1946.

25/ At present spillway elevation. Spillway raised 1.24 ft. in 1944.

26/ Indeterminate.

\* Estimated.



**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARSS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	

UPPER MISSISSIPPI RIVER BASIN (FAIRMONT TO LOUISIANA)  
Iowa, Shunk and Des Moines River Basins

25-1	Pool #19 (L. Coober, Keokuk Dam)	Mississippi R.	Keokuk, Iowa	119,000	1/	Jun 1928	15	42,600,000	---	---	1.52	---	---	---	
	.....DO.....	.....DO.....	.....DO.....	119,000	1/	Jun 1938	25	39,400,000	---	---	1.19	---	---	---	
	.....DO.....	.....DO.....	.....DO.....	119,000	1/	Jun 1946	33	41,400,000	---	---	1.06	---	---	---	
25-2	Wener Pine	Pine Cr.	Eldora, Iowa	13.9	13.8	Sep 1947	13.3	342/sq mi*	47.5	60*	2.38	1.14	1,490*	4,400*	
25-3	Lake Calhoun	Fitch Cr.	Galva, Ill.	13.1	13.0	Aug 1936	11.9	---	32.4	56	2.99	0.977	1,190	---	
	.....DO.....	.....DO.....	.....DO.....	13.1	13.0	Jul 1947	22.9	---	22.4	56	3.20	1.05	1,280	---	
25-4	Carthage Res.	Long Cr.	Carthage, Ill.	2.94	2.88	Aug 1949	23.4	---	138	50*	1.03	1.45	1,580	---	
25-5	McCraney Creek New Desilting Basin	McCraney Cr.	Kinderhook, Ill.	52.0	50.2	Dec 1939	3	---	46.2	85*	8.75	4.18	7,740	---	
	.....DO.....	.....DO.....	.....DO.....	52.0	50.2	1941	5	---	46.2	85*	6.13	2.93	5,420	---	
25-6	Pine Lake	Pine Cr.	Eldora, Iowa	15.34	15.24	1932	8	312/sq mi*	48.1	60*	3.15	1.52	1,990	5,900*	
25-7	Hadley Creek Old Desilting Basin	Hadley Cr.	New Canton, Ill.	77.0	72.7	3	1936	15	---	39	85*	2.57	1.06	1,960	---
25-8	Hadley Creek New Desilting Basin	Hadley Cr.	New Canton, Ill.	77.0	72.7	3	Dec 1939	3	479/sq mi*	40	85*	5.68	2.41	4,460	---
25-9	Kiser Creek Desilting Basin	Kiser Cr.	New Canton, Ill.	66.0	59.6	3	Dec 1939	3	587/sq mi*	42.4	85*	6.07	2.85	5,280	---
25-10	Beeds Lake	Unnamed Stream	Hampton, Iowa	31.2	31.6	11	1946	11	324/sq mi*	36.3	85*	0.66	0.24	340	1,000
25-11	C W St P & P RR Res 4/	Trib. of Big Cr.	Madrid, Iowa	2.54	2.52	1918	15	294/sq mi*	16.9	70*	2.79	0.476	726	3,100*	
25-12	Fairfield No. 3	Crow Cr.	Fairfield, Iowa	2.98	2.92	1934	9	336/sq mi*	87.6	50*	1.57	1.40	1,530	3,800*	
25-13	Springbrook	Spring Brook	Guthrie Center, Iowa	2.1	2.1	1946	10	217/sq mi*	88.1	50*	0.73	0.638	695	2,800*	
25-14	Pool #16	Mississippi R.	Muscataine, Iowa	39,400	1/	Nov 1949	11.7	37,962,000	---	---	0.53	---	---	---	
25-15	Pool #20	Mississippi R.	Canton, Mo.	134,300	1/	Nov 1950	13.1	51,010,000	---	---	0.18	---	---	---	

UPPER MISSISSIPPI RIVER BASIN (PRAIRIE DU CHIEN TO ROCK ISLAND) & LAKE MICHIGAN DRAINAGE  
Rock and Waubesa River Basins

26-1	Pool #15	Mississippi R.	Rock Island, ILL - 1a	88,500	1/	Aug 1938	4.5	27,200,000	---	---	0.50	---	---	---
	.....DO.....	.....DO.....	.....DO.....	88,500	1/	Nov 1944	10.7	32,000,000	---	---	0.28	---	---	---
	.....DO.....	.....DO.....	.....DO.....	88,500	1/	Dec 1946	12.8	32,800,000	---	---	0.04	---	---	---
	.....DO.....	.....DO.....	.....DO.....	88,500	1/	Nov 1948	14.7	32,900,000	---	---	0.31	---	---	---
	.....DO.....	.....DO.....	.....DO.....	88,500	1/	Nov 1950	16.7	32,256,000	---	---	0.24	---	---	---
26-2	Backbone Lake (Forestville Lake)	Maquoketa R.	Strawberry Pt. Iowa	116	116	Feb 1942	7.6	---	5.24	---	1.49	0.078	127	---
	.....DO.....	.....DO.....	.....DO.....	116	116	Feb 1949	14.6	---	5.24	75.1	1.52	0.080	131	---

UPPER MISSISSIPPI RIVER BASIN (ST. PAUL TO PRAIRIE DU CHIEN)  
Wisconsin, Root, Chippewa, and St. Croix River Basins

27-1	Elk Creek Lake	Elk Cr.	Eau Claire, Wis.	60	60	Oct 1941	15	623/sq mi*	11.4	70*	2.21	0.252	384	900*
27-2	Etrick Mill Pond	N. Br. Beaver Cr.	Etrick, Wisc.	50.75	50.7	Jun 1939	68	---	2.5	80*	0.94	0.023	40	---
27-3	Marinuka (Davis Lake)	Beaver Cr.	Galesville, Wisc.	138.6	138.2	Jun 1939	72	550/sq mi*	12.1	72.5	0.82	0.1	158	360*
27-4	Prairie Du Sac	Wisconsin R.	Prairie du Sac, Wis.	8,900	600	5/ 1923	19	15,250	---	90*	4.29	0.717	1,400	40,500
27-5	Pool No. 5A	Mississippi R.	Winona, Minn.-Wisc.	59,100	---	Feb 1945	9.6	18,288,000	---	90*	1.07	6/	---	---

UPPER MISSISSIPPI RIVER BASIN (ABOVE ST. PAUL)

LAKE SUPERIOR AND LAKE OF THE WOODS AREA (IN MINNESOTA)

29-

RED RIVER OF THE NORTH BASIN

30-1	Lake Bronson.....	Two Rivers.....	Bronson, Minn.....	439	438.5	Oct 1950	10	---	8.64	30.94	0.44	0.038	25.6	---
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MISSOURI RIVER BASIN (NEBRASKA CITY TO HERMAN)  
Osage, Gasconade, and Grand River Basins

31-1	Lake of the Ozarks (Baonell Dam).....	Osage R.....	Eldon, Mo.....	14,000	13,900	Oct 1948	17.8	7,249,000	149	59.2	0.308	0.464	598	864
31-2	Carl Chinquist.....	Trib. of W. Nodaway R	Stanton, Iowa.....	0.166	0.163	May 1949	10.9	5.7 inches*	57	49.9	4.43	3.87	4,200	9,980
31-3	L. H. Fuelling.....	Trib. of Tarkio Cr...	Westboro, Mo.....	1.05	1.04	May 1949	9.8	5.5 inches*	30.3	82.5	5.21	2.93	3,990	9,910
31-4	McDaniel Lake.....	Little Sac R.....	Springfield, Mo.....	41.9	41.5	Jun 1940	11	---	82	60*	0.65	0.538	703	---
31-5	Donohon County Old Desilting Basin.....	Chase Cr.....	Blair, Kans.....	1.62	1.58	Jun 1937	10	6.2 inches*	98.3	84.4	8.52	8.58	15,700	34,240
31-6	Leavenworth County State Lake.....	Unnamed Trib.....	Tonganoxie, Kans....	3.83	3.56	Nov 1947	16.1	1,058	1,023	61.45	0.23	2.53	3,386	8,383
31-7	Lyon County State Lake (Reading Lake).....	---	Reading, Kans.....	2.19	1.79	7 Aug 1939	4	---	863	60*	0.26	2.73	3,568	---
31-8	Martin Farm Lake.....	Osage River Basin....	Ottawa, Kans.....	0.18	0.17	Oct 1937	6.9	---	183	60*	1.45	2.82	3,685	---
31-9	Mission Lake.....	Mission Cr.....	Horton, Kans.....	8.15	7.76	May 1937	13.0	---	227	62.2	1.20	2.86	3,874	---
31-10	Moran.....	So. Fk. Osage R.....	Moran, Kans.....	5.35	5.28	See 1939	26.4	---	68.2	49.15	0.69	0.477	511	---
31-11	Lake Olathe.....	Cedar Cr.....	Olathe, Kans.....	6.2	6.11	Jun 1937	4.9	---	116	60.4	1.55	1.84	2,421	---
	.....DO.....	.....DO.....	.....DO.....	6.2	6.11	Jul 1949	17	---	116	57.6	1.90	2.24	2,810	---
31-12	Richmond.....	Unnamed Trib.....	Richmond, Kans.....	2.17	2.07	Oct 1937	28	---	187	60*	1.02	2.00	2,614	---
31-13	Lampe Farm Pond.....	Trib of Muddy Cr....	Howe, Neb.....	0.065	0.064	Dec 1948	6.3	---	46.2	57.4	5.13	2.41	3,010	7,860
31-14	E. W. Howell.....	Trib of Tarkio Cr....	Tarkio, Neb.....	0.509	0.505	May 1949	6.9	8/ 3.3 inches*	66.2	72.5	12.1	9.66	15,250	63,300
31-15	Allerton.....	So. Chariton R.....	Allerton, Iowa.....	4.98	4.82	Nov 1939	25.5	---	103	60*	0.84	0.894	1,170	---
31-16	Centerville #2.....	Manson's Branch.....	Centerville, Iowa...	2.70	2.62	1937	11	---	411	60*	5.5	2.12	2,760	---
31-17	Lake of Three Fires...	E. Fk. 102 R.....	Bedford, Iowa.....	6.15	5.97	Feb 1950	13.6	---	200	--	2.22	4.58	---	---

SMOKY HILL AND LOWER REPUBLICAN RIVER BASINS

32-1	Ottawa County State L.	Sand Cr.....	Bennington, Kans....	20.47	20.26	Apr 1937	8.0	---	48.9	--	0.89	0.438	---	---
32-2	Sheridan County State Lake.....	Saline R.....	Quinter, Kans.....	493	463	Aug 1948	10.8	---	1	66.5	4.06	0.681	98.6	---
32-3	Kanopolis.....	Smoky Hill R.....	Kanopolis, Kans.....	7,860	2,308 9/	Nov 1950	4.3	276,070	57	50*	0.22	0.127	138	2,900
	.....DO.....	.....DO.....	.....DO.....	7,860	2,308 9/	Nov 1951	5.3	424,000	57	58*	0.30	0.582	735	2,850

UPPER REPUBLICAN, NORTH PLATTE, RIVER BASINS (FT. LARAMIE TO NORTH PLATTE)  
AND SOUTH PLATTE RIVER BASIN (SUBLETTE TO NORTH PLATTE)

33-1	Wellfleet.....	Medicine Cr.....	Wellfleet, Neb.....	15	14.89	May 1937	5.6	---	34.6	65*	1.89	0.66	934	---
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1/ Indeterminate

2/ Spillway raised 2.89 ft. in 1946. Original c/w ratio was 21.8. All sedimentations and storage loss data based on the higher spillway elevation.

3/ Excludes Mississioi River Bottom land.

4/ Reservoir no longer visible on 1939 aerial photos.

5/ Flow from 8,300 sq mi of drainage area passes through power dams which act as traps.

6/ Below elevation 651.0. Amount includes 1,310 acre-feet determined by the survey plus 1,770 acre-feet of channel dredging.

7/ Excluding area of lake and 0.31 sq mi above stock pond.

8/ Reservoir silted full Dec 1936, crest raised June 1937, silted full again Dec. 1940, crest raised again May 1945, silted full again May 1949.

9/ 7,860 prior to closure of Cedar Bluff Dam December 1950.

\* Estimated or assumed.

**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
NORTH PLATTE RIVER BASIN (ABOVE FT. LARAMIE) SOUTH PLATTE RIVER BASIN (ABOVE SUBLETTE)														
34-1	Castlewood.....	Cherry Cr.....	Denver, Colo.....	167.2	166.9	Aug 1932	43	---	22.9	77.3	0.45	0.099	167	---
34-2	Kenwood.....	Cherry Cr.....	Denver, Colo.....	357	386	Jun 1938	2.25	---	25.3	75.6	0.42	0.106	175	---
	.....DO.....	.....DO.....	.....DO.....	387	386	Jun 1939	3.25	---	25.3	--	1.19	0.301	495	---
34-3	Guernsey.....	North Platte R.....	Guernsey, Myo.....	16,200	5,400	Jan 1931	3.83	1,499,514	13.42	--	--	0.284	---	---
	.....DO.....	.....DO.....	.....DO.....	16,200	5,400	Jan 1933	5.83	1,361,192	13.42	--	--	0.273	---	---
	.....DO.....	.....DO.....	.....DO.....	16,200	5,400	Jan 1935	7.83	1,316,774	13.42	--	--	0.253	---	---
	.....DO.....	.....DO.....	.....DO.....	16,200	5,400	Feb 1937	9.93	1,238,704	13.42	--	--	0.236	---	---
	.....DO.....	.....DO.....	.....DO.....	16,200	5,400	Feb 1939	11.93	1,236,319	13.42	--	--	0.239	---	---
	.....DO.....	.....DO.....	.....DO.....	16,200	5,400	Jan 1941	13.93	1,194,195	13.42	--	--	0.229	---	---
	.....DO.....	.....DO.....	.....DO.....	16,200	5,400	Jan 1944	16.93	1,180,148	13.42	--	--	0.226	---	---
	.....DO.....	.....DO.....	.....CO.....	16,200	5,400	Jul 1947	20.43	1,175,657	13.42	53.2	0.025	0.224	259	877
34-4	Lake Cheesman.....	South Platte R.....	Peckers, Colo.....	1,766	1,460	Sep 1931	31	140,799	44.77	70 *	0.045	0.0244	37.20	277.6
MISSOURI RIVER BASIN (ABOVE BLAIR TO NEBASKA CITY) PLATTE RIVER BASIN (BELOW NORTH PLATTE)														
35-1	Otto Beak.....	Trib of Soldier R....	Ricketts, Iowa.....	0.159	0.157	Apr 1949	4.6	7.8 inches*	43.5	54.9	5.48	6.41	7,670	13,390
35-2	Fred Brown.....	Trib of Willow R....	Logan, Iowa.....	0.100	0.097	May 1949	7.9	6.0 inches*	118.9	63.2	4.32	9.51	15,080	29,180
35-3	William Esbeck.....	Trib of Elkhorn R....	Elkhorn, Iowa.....	0.208	0.204	May 1949	9.0	6.3 inches*	60.6	56.2	4.86	4.41	5,590	11,590
35-4	G. & A. Evers Lower Res	Trib of Boyer R....	Denison, Iowa.....	0.187	0.139	Apr 1949	10.3	6.1 inches*	35.5	69.8	2.51	3.75	5,700	9,580
35-5	G. & A. Evers Upper Res	Trib of Boyer R....	Denison, Iowa.....	0.045	0.044	Apr 1949	10.1	6.1 inches*	42.2	71.4	6.29	3.77	5,870	12,970
35-6	Charles Fienhold.....	Trib of Boyer R....	Dunlap, Iowa.....	0.428	0.425	Apr 1949	3.9	7.9 inches*	29.5	63.1	10.3	5.87	8,070	13,960
35-7	C. T. Gadd.....	Trib E. Nishnabotna..	Stennett, Iowa.....	0.081	0.079	May 1949	8.4	6.3 inches*	91.7	63.9	1.37	2.35	3,270	7,000
35-8	Otto Goslar.....	Trib Mid Soldier R....	Charter Dak, Iowa...	0.089	0.086	Mar 1949	8.8	6.5 inches*	114	68.8	1.57	2.50	3,750	7,680
35-9	Thomas Hodkin.....	Trib of Boyer R....	Dow City, Iowa.....	0.130	0.127	May 1949	2.8	6.1 inches*	149	83.2	33.9	53.9	97,740	215,950
35-10	Fred Hollrah.....	Trib of Willow Cr....	Ute, Iowa.....	0.217	0.213	Mar 1949	4.6	7.7 inches*	87.5	58.3	3.70	6.35	8,060	14,150
35-11	Jones Creek.....	Jones Cr.....	Pisgah, Iowa.....	2.26	2.25	Jan 1949	6.9	6.1 inches*	33.5	47.8	2.00	2.09	2,170	4,900
35-12	Emma La Frontz.....	Trib of Boyer R....	Denison, Iowa.....	0.155	0.152	Apr 1949	6.9	7.9 inches*	81.9	56.7	4.64	4.61	5,690	9,740
35-13	Jenson-D'Neil Farm Pd.	Trib of L. Nemaha R..	Syracuse, Neb.....	0.199	0.193	Nov 1948	12.0	3.9 inches*	119	56.9	2.92	3.07	3,680	12,650
35-14	Paterson Farm Pond....	Trib of L. Nemaha R..	Syracuse, Neb.....	0.075	0.074	Jul 1948	11.75	3.8 inches*	27.5	59.7	7.86	2.19	2,850	10,200
35-15	Alfred Lage.....	Trib of Elk Cr.....	Aspinwall, Iowa.....	0.184	0.182	Apr 1949	7.8	7.8 inches*	31	53.2	3.05	1.68	1,850	3,410
35-16	Herman Lage.....	Trib of Elk Cr.....	Aspinwall, Iowa.....	0.038	0.036	Apr 1949	7.8	7.7 inches*	217	54.8	1.34	4.42	5,275	8,950
35-17	Howard Mattson.....	Trib of Boyer R....	Denison, Iowa.....	0.100	0.098	Apr 1949	4.8	8.2 inches*	39.2	69.1	4.92	4.28	6,440	10,610
35-18	Wilbur Meyer.....	Trib of Boyer R....	Denison, Iowa.....	0.297	0.293	Apr 1949	4.4	8.4 inches*	37.2	56.3	3.36	3.60	4,410	7,150
35-19	Max Miller #1.....	Trib W. Nishnabotna R	Macedonia, Iowa.....	0.223	0.218	May 1949	7.5	6.6 inches*	34.1	65.2	2.55	4.00	5,680	11,620
35-20	Max Miller #5.....	Trib W. Nishnabotna R	Macedonia, Iowa.....	0.233	0.228	May 1949	7.5	6.6 inches*	69.9	72.6	2.82	5.17	8,180	16,730
35-21	Barney Mundt.....	Trib of Boyer R....	Denison, Iowa.....	0.336	0.330	Apr 1949	4.5	8.4 inches*	38.5	54.8	4.44	3.29	3,930	6,340
35-22	Tracy North.....	Trib of Boyer R....	Vail, Iowa.....	0.245	0.238	Apr 1949	9.4	6.9 inches*	149	52.7	1.88	3.69	4,240	8,220
35-23	Lake Ericson.....	Cedar R.....	Ericson, Neb.....	500	41	Apr 1948	32.9	64,900	26	80	1.08	0.434	756	340
MISSOURI RIVER BASIN (NIOBRARA TO ABOVE BLAIR) JAMES AND BIG SIOUX RIVER BASINS														
36-1	Split Rock.....	Trib of Big Sioux R..	Ihlen, Minn.....	41.3	41.1	Jun 1949	10.9	2.0 inches*	21.8	42.8	2.11	0.462	431	2,960
36-2	C. A. Stiles.....	Trib of Ashton Cr....	Washta, Iowa.....	0.593	0.576	Mar 1949	8.3	6.1 inches*	77.6	46.9	1.23	1.25	1,280	2,820
36-3	Farmers' Ditch Old Desilting Basin.....	Farmers' Ditch.....	Bronson, Iowa.....	22.9	21.4	Feb 1945	3.8	4.3 inches*	29.4	68.3	6.32	4.91	7,300	21,880
MISSOURI RIVER BASIN (ABOVE PIERRE TO NIOBRARA) Niobrara and White River Basins														
37-1	Elkins Stock Pond No 1	Br of Frozenman Cr...	Hayes, So. Dak.....	0.58	0.57	Jun 1937	28	---	32.1	41.3	0.54	0.17	153	---
37-2	Elkins Stock Pond No 2	Br of Frozenman Cr...	Hayes, So. Dak.....	0.33	0.33	Jun 1937	26	---	13.2	36.6	1.03	0.136	108	---
37-3	Land Utilization Project No. 226-1.....	Trib of Bad R.....	Pierre, So. Dak.....	0.203	0.197	Jul 1945	9.3	---	82.3	--	0.97	0.822	---	---

37-4	Land U. Proj No. 226-2	Trib of Missouri R...	Pierre, So. Dak.....	0.995	0.981	Jul 1946	9.3	---	34.2	--	1.32	0.458	---	---
37-5	Land U. Proj No. 226-4	Trib of Bad R.....	Pierre, So. Dak.....	0.742	0.748	Jul 1945	9.2	---	18.2	--	2.94	0.539	---	---
37-6	Land U. Proj No. 226-6	Trib of Missouri R...	Pierre, So. Dak.....	2.555	2.541	Jul 1945	9.3	---	12.4	--	2.28	0.285	---	---
37-7	Land U. Proj No. 226-13	Trib of Bad R.....	Pierre, So. Dak.....	0.166	0.163	Jul 1945	8.7	---	54.8	--	0.93	0.521	---	---
37-8	Land U. Proj No. 226-21	Trib of Missouri R...	Pierre, So. Dak.....	0.245	0.234	Jul 1945	8.7	---	118	--	1.12	---	---	---
37-9	Land U. Proj No. 226-22	Trib of Bad R.....	Pierre, So. Dak.....	0.514	0.511	Jul 1945	8.7	---	17.9	--	1.11	0.200	---	---
37-10	Land U. Proj No. 226-25	Trib of Missouri R...	Pierre, So. Dak.....	0.147	0.144	Jul 1945	7.7	---	63.3	--	1.24	0.799	---	---
37-11	Land U. Proj No. 226-31	Trib of Missouri R...	Pierre, So. Dak.....	0.225	0.220	Jul 1945	8.3	---	61.8	--	1.36	0.859	---	---
37-12	Land U. Proj No. 226-32	Trib of Missouri R...	Pierre, So. Dak.....	0.477	0.472	Jul 1945	8.3	---	29.6	--	1.70	0.508	---	---
37-13	Land U. Proj No. 226-34	Trib of Missouri R...	Pierre, So. Dak.....	1.222	1.209	Jul 1945	8.1	---	36.3	--	1.21	0.443	---	---
37-14	Land U. Proj No. 226-35	Trib of Missouri R...	Pierre, So. Dak.....	0.508	0.502	Jul 1945	7.2	---	36.2	--	1.72	0.631	---	---
37-15	Land U. Proj No. 243-1	Trib of Missouri R...	Pierre, So. Dak.....	0.108	0.106	Jul 1945	7.7	---	25.0	--	3.19	0.811	---	---
37-16	Land U. Proj No. 243-2	Unnamed Stream.....	Pierre, So. Dak.....	0.134	0.131	Jul 1945	7.7	---	38.8	--	5.56	2.206	---	---
37-17	Land U. Proj No. 243-5	Trib of Missouri R...	Pierre, So. Dak.....	0.072	0.070	Jul 1945	7.7	---	36.1	--	1.88	0.700	---	---
37-18	Land U. Proj No. 243-6	Trib of Bad R.....	Pierre, So. Dak.....	0.117	0.116	Jul 1945	7.7	---	27.4	--	1.72	0.474	---	---
37-19	Land U. Proj No. 243-10	Trib of Missouri R...	Pierre, So. Dak.....	0.533	0.532	Jul 1945	7.1	---	6.94	--	3.19	0.222	---	---
37-20	Land U. Proj No. 243-11	Trib of Missouri R...	Pierre, So. Dak.....	0.339	0.338	Jul 1945	7.0	---	13.3	--	2.00	0.266	---	---

MISSOURI RIVER BASIN (MOBRIDGE TO ABOVE PIERRE)  
Cheyenne and Belle Fourche River Basins

38-1	Johnson's Stock Pond..	Trib of L. Cheyenne R	Gettysburg, So. Dak.	0.191	0.188	Jun 1937	25.0	---	13.4	58.1	1.17	0.16	202	---
38-2	Bartel Stock Pond.....	Little Cheyenne Cr...	Gettysburg, So. Dak.	0.609	0.606	Jun 1937	29.0	---	7.06	53.6	1.16	0.08	93.4	---

MISSOURI RIVER BASIN (WILLISTON TO MOBRIDGE)  
Moreau, Grand, Cannonball, Heart, and Little Missouri River Basins

39

MISSOURI RIVER BASIN (ZORTMAN TO WILLISTON)  
Milk & Musselshell River Basins

40

MISSOURI RIVER BASIN (ABOVE ZORTMAN)

41

LOWER YELLOWSTONE RIVER BASIN  
Tongue & Powder River Basins

42-1	Baker.....	Sandstone Cr.....	Baker, Mont.....	5.20	5.01	May 1937	29.1	---	145	39	1.15	1.74	1,478	---
42-2	Tongue River.....	Tongue R.....	Decker, Mont.....	1,740	1,734	Oct 1948	9.42	310,176	41.67	70.5	0.45	0.188	288.7	1,187.5

UPPER YELLOWSTONE RIVER BASIN

43-1	Buffalo Bill.....	Shoshone R.....	Cody, Wyo.....	1,470	1,460	1941	31	979,515	310.09	--	0.11	0.353	---	---
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\* Estimated or assumed.

**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATE SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
ARKANSAS RIVER BASIN (VAN BUREN TO LITTLE ROCK) WHITE RIVER BASIN														
44-1	Lake Bennett.....	East Fork Cr.....	Conway, Ark.....	4.16	4.11	Nov 1935	0.4	---	119	--	2.20	2.63	---	---
	.....DO.....	.....DO.....	.....DO.....	4.16	4.11	Nov 1946	11.5	---	119	--	0.23	0.28	---	---
44-2	Lake Booneville.....	Trib of Petit Jean Cr	Booneville, Ark.....	2.60	2.57	Nov 1935	6.75	---	111	--	0.40	0.455	---	---
44-3	Fort Smith.....	Jack & Jones Creeks..	Mountainburg, Ark...	65	64	Apr 1940	4.2	---	212	--	0.14	0.31	---	---
44-4	Lake Bailey.....	Cedar Cr.....	Morrilton, Ark.....	15.2	15	May 1940	2.7	---	41	--	1.59	0.66	---	---
44-5	Lake Taneycomo.....	White River.....	Branson, Mo.....	4,610	4,606	Aug 1935	22.4	---	9.54	--	2.06	0.196	---	---
44-6	Mimrod.....	Fourche La Fave R....	Nimrod, Ark.....	680	652	Apr 1950	7.9	822,000	494	62	--	1/	---	---
44-7	Norfolk.....	North Fork R.....	Norfolk, Ark.....	1,866	1,772	May 1930	6.9	1,590,000	864	60	--	2/	---	---
ARKANSAS RIVER BASIN (TULSA TO VAN BUREN) Grand, Verdigris and Lower Canadian River Basins														
45-1	Lake Wedington.....	Trib of Illinois R....	Fayetteville, Ark...	4.06	3.92	Aug 1947	10.1	---	310	--	0.09	0.278	---	---
45-2	Wilson.....	Wilson Cr.....	Fayetteville, Ark...	2.35	2.30	Jun 1940	9.75	---	222	--	6.10	0.23	---	---
45-3	Lake Sapulpa.....	Euclaw Cr.....	Sapulpa, Okla.....	8.72	8.57	Dec 1935	22.5	---	125	--	0.74	0.949	---	---
	.....DO.....	.....DO.....	.....DO.....	8.72	8.57	Dec 1946	33.5	---	125	--	0.69	0.877	---	---
45-4	Brown Lake.....	Peaceable Cr.....	McAlester, Okla....	20.9	19.9	Apr 1949	5.9	---	236	--	1.36	3.37	---	---
45-5	Lake McAlester.....	Bull Cr.....	McAlester, Okla....	30.7	28.2	3ep 1941	22	---	599	--	0.22	1.43	---	---
45-6	Lake Okmulgee.....	Salt Cr.....	Okmulgee, Okla....	40.1	39.2	Apr 1950	22	---	258	--	0.20	0.532	---	---
45-7	Shawnee Lake.....	So. Br. Deer Cr.....	Shawnee, Okla.....	21.0	18.9	Dec 1947	12.3	---	1,170	--	0.25	3.23	---	---
45-8	Taft Lake.....	Br of Pecan Cr.....	Taft, Okla.....	2.3	2.2	Sep 1947	10	---	252	--	0.11	0.29	---	---
45-9	Hiwassee Lake.....	Trib of Deep Fork Cr	Arcadia, Okla.....	4.58	4.29	Apr 1950	14	---	511	--	0.56	3.05	---	---
45-10	Lake Carleton.....	Fourche Maline Cr....	Wilburton, Cr.....	19.8	19.7	Jul 1947	14	---	29	--	0.74	0.21	---	---
45-11	Holdenville City Lake	Beemore Cr.....	Holdenville Okla....	8.95	8.30	Apr 1950	18.8	---	1,100	--	0.44	5.22	---	---
45-12	Pretty Water Lake.....	Pretty Water Cr.....	Sapulpa, Okla.....	2.43	2.40	Dec 1946	10.75	---	142	--	0.60	0.65	---	---
45-13	Greenleaf Lake.....	Big Greenleaf Cr.....	Muskogee, Okla....	81.25	79.84	Nov 1941	4.7	---	160	--	0.3	0.47	---	---
45-15	Kirk Lake.....	Iola, Kans.....	Iola, Kans.....	2.41	2.36	Sep 1939	42	---	46	48.1	0.91	0.43	450	---
45-16	Lowell.....	Sprg. R. & Shoal Cr..	Baxter Springs, Kans	2,210.0	2,208	Aug 1939	34.4	---	4.71	60*	0.79	0.04	52.3	---
45-17	Neosho County State L. (Lake McKinley).....	Trib of Neosho R.....	Parsons, Kans.....	3.38	3.24	Aug 1939	12.1	---	201	60*	0.35	0.74	967	---
45-18	Lake Claremore.....	Dog Cr.....	Claremore, Okla....	56.44	55.70	Oct 1939	8.4	---	75	51.17	0.98	0.749	835	---
45-19	Lake Spavinaw.....	Spavinaw Cr.....	Spavinaw, Okla....	400	397.2	Jul 1935	11	---	79.2	--	0.34	0.269	---	---
45-20	Kennamer Lake.....	Trib of Pryors Cr.....	Chelsea, Okla.....	0.28	0.27	1939	16	---	100	--	0.34	0.35	---	---
45-21	State Fish Hatchery L.	Happy Cr.....	Claremore, Okla....	1.21	1.20	1939	5	---	28.1	--	0.65	0.18	---	---
45-22	Lake Scarbow.....	Trib of Pryor Cr.....	Pryor, Okla.....	3.07	3.04	1939	8	---	40.1	--	1.13	0.46	---	---
ARKANSAS RIVER BASIN (GARDEN CITY TO TULSA) Middle Canadian, Lower Cimarron, and Salt Fork River Basins														
46-1	Fort Supply.....	Wolf Cr.....	Supply, Okla.....	1,735	1,726	Jun 1949	6.4	61,480	62	57.8	0.17	0.108	136	2,800
46-2	Great Salt Plains.....	Salt Fork of Ark. R..	Jet, Okla.....	3,200	3,156	Dec 1949	8.5	424,059	96	48.6	0.601	0.586	620	3,390
46-2	Boomer Lake.....	Boomer Cr.....	Stillwater, Okla....	9.13	8.67	Jun 1935	10.25	---	308	60	0.59	1.93	2,522	---
46-4	Bennington's Lake.....	Chikaskia R.....	Rago, Kans.....	1.42	1.40	Oct 1940	11.2	---	52.8	69.47	5.00	2.68	4,055	---
46-5	Meade County State L. (Lake Larrabee).....	Stump Arroya.....	Meade, Kans.....	18	17.84	Apr 1937	8.8	---	49.5	60*	0.92	0.459	600	---
46-6	Lake Medicine.....	Medicine Lodge R....	Medicine Lodge, Kan.	1.89	1.84	Oct 1940	11.2	---	1.93	98.52	1.71	3.40	7,296	---
46-7	Santa Fe.....	Indianola Cr.....	Augusta, Kans.....	37.93	37.55	May 1937	8.6	---	45.9	58.1	0.98	0.45	569	---
46-8	Guthrie.....	Trib of Cottonwood R.	Guthrie, Okla.....	13.30	12.95	May 1935	14.5	---	230	60*	1.03	2.42	3,162	---
46-9	Gelmer's Stock Pond.....	Bois d'Arc Cr.....	Blackwell, Okla....	0.31	0.31	Sep 1940	1.0	---	12.1	65*	8.29	1.0	1,416	---
46-10	Harris Stock Pond.....	Bois d'Arc Cr.....	Blackwell, Okla....	0.22	0.21	Sep 1940	2.5	---	57.4	65*	0.82	0.495	701	---
46-11	Lake Eldorado.....	Satchel Cr.....	Eldorado, Kans.....	35.1	34.3	Apr 1937	9.0	---	91.5	66	0.45	0.426	612	---

ARKANSAS RIVER BASIN (LAMAR TO GARDEN CITY)  
Upper Cimarron and Upper Canadian River Basin

47-1	Conchas.....	Canadian R.....	Hewkirk, N. Mex.....	7,350	6,950	May 1940	1.4	----	82	75.7	0.17	0.144	255	14,863
	.....DO.....	.....DO.....	.....DO.....	7,350	6,950	Jun 1942	3.4	436,485	82	75.7	0.76	0.677	1,116	13,079
	.....DO.....	.....DO.....	.....DO.....	7,350	6,950	Nov 1942	3.8	510,878	82	75.7	0.98	0.757	1,248	12,498
	.....DO.....	.....DO.....	.....DO.....	7,350	6,950	Oct 1944	5.7	391,919	82	75.7	0.71	0.615	1,014	13,573
	.....DO.....	.....DO.....	.....DO.....	7,350	6,950	Feb 1949	10.1	266,536	82	75.7	0.58	0.498	821	15,671
47-2	Reservoir No. 2.....	(Offstream).....	Maxwell, New Mex.....	---	---	1946	34	---	---	---	---	---	---	---
47-3	Reservoir No. 7 & 8.....	(Offstream).....	Maxwell, New Mex.....	---	---	1946	34	---	---	---	---	---	---	---
47-4	Reservoir No. 11.....	(Offstream).....	Maxwell, New Mex.....	---	---	1946	34	---	---	---	---	---	---	---
47-5	Reservoir No. 12.....	(Offstream).....	Maxwell, New Mex.....	---	---	1946	34	---	---	---	---	---	---	---
47-6	Reservoir No. 13.....	(Offstream).....	Maxwell, New Mex.....	---	---	1946	34	---	---	---	---	---	---	---
47-7	Reservoir No. 14.....	(Offstream).....	Maxwell, New Mex.....	---	---	1946	34	---	---	---	---	---	---	---

RIO GRANDE BASIN (ABOVE ESPANOLA) AND ARKANSAS RIVER BASIN

48-1	John Martin.....	Arkansas R.....	Caddo, Colo.....	18,933	17,080	Jul 1942	.3	---	37	75.7	--	--	---	12,443
	.....DO.....	.....DO.....	.....DO.....	18,933	17,080	Dec 1943	1.7	887,471	37	75.7	1.1	0.436	750	10,186
	.....DO.....	.....DO.....	.....DO.....	18,933	17,080	Sep 1944	2.4	753,540	37	75.7	1.1	0.438	742	12,048
	.....DO.....	.....DO.....	.....DO.....	18,933	17,080	May 1948	6.1	453,186	37	75.7	0.61	0.251	422	11,467
48-2	Brown Reservoir No. 1.....	Van Bremer Arroyo.....	Trinidad, Colo.....	74.6	74.4	Nov 1939	39	---	10.2	89.07	2.28	0.233	452	---
48-3	Muddy Creek.....	Muddy Cr & Johnny Cr.....	Caddo, Colo.....	154.2	152.4	Dec 1939	20	---	109.7	75.25	0.48	0.535	877	---
48-4	Horse Creek 1/2.....	Horse Cr.....	Ordway, Colo.....	52.01	47.44	Apr 1940	39.4	---	696	68.36	15.12	0.241	1,515	---
48-5	Teller.....	Turkey Cr.....	Pueblo, Colo.....	78.8	78.5	Feb 1940	28.9	---	50.8	75.4	1.33	0.680	1,117	---
48-6	Cucharas.....	Cucharas R.....	Walsenburg, Colo.....	608	608	1937	25	---	63	---	--	0.87	---	---
	.....DO.....	.....DO.....	.....DO.....	608	608	1939	27	---	63	---	1.47	0.93	---	---

RED RIVER BASIN (DENISON TO GRAND ECORE)  
Little and Sulohur River Basins

49-1	Lake Crook.....	Pine Cr.....	Paris, Texas.....	53.6	51.6	Mar 1936	13.1	---	214	--	0.49	1.08	---	---
49-2	Lake Gibbons.....	Trib of Pine Cr.....	Paris, Texas.....	1.46	1.26	Mar 1936	36	---	968	--	0.15	1.72	---	---
49-3	Nashville.....	Mine Cr.....	Nashville, Ark.....	10.4	10.3	Jul 1941	10.3	---	17.4	--	2.85	0.50	---	---

RED RIVER BASIN (ABOVE DENISON)

50-1	Ardmore Club Lake.....	Caddo Cr.....	Ardmore, Okla.....	4.15	3.91	Jun 1938	15.5	---	433	40.7	0.55	2.52	2,234	---
50-2	Byers Club Lake.....	Unnamed Stream.....	Ryers, Okla.....	2.66	2.55	1950	46	---	191	--	0.58	1.16	---	---
50-3	Carter Lake.....	Big Glasses Cr.....	Madill, Okla.....	1.81	1.70	Nov 1949	13	---	478	--	0.25	1.26	---	---
50-4	J. J. Harrison Lake.....	Trib of Washita R.....	Lindsay, Okla.....	0.88	0.81	Mar 1950	18	---	397	--	1.07	4.59	---	---
50-5	C. W. Lester Pond No 1	Trib of Broken Leg Cr	Cheyenne, Okla.....	2.04	2.03	Jun 1949	4	---	20.8	--	11.56	2.41	---	---
50-6	C. W. Lester Pond No 2	Trib of Broken Leg Cr	Cheyenne, Okla.....	0.64	0.63	Jun 1949	5	---	25.5	--	3.93	1.02	---	---
50-7	Santa Rosa Lake.....	Beaver Cr.....	Vernon, Tex.....	336	334	Jan 1948	18.2	---	46.9	--	1.5	0.689	---	---
50-8	Lake Duncan.....	Fitzpatrick Cr.....	Duncan, Okla.....	11	10.4	Aug 1950	12.8	---	572	63.4	0.63	3.82	5,275	---
50-9	Lake Clinton.....	Turkey Cr.....	Canute, Okla.....	23.6	23.1	Jun 1938	7.4	---	187	63.36	1.33	2.54	3,505	---
	.....DO.....	.....DO.....	.....DO.....	23.6	23.1	Nov 1950	12.4	---	187	65.9	1.23	2.34	3,359	---
50-10	Bellevue.....	Clay Cr.....	Bellevue, Tex.....	1.5	1.44	May 1938	50	---	87	--	0.70	0.64	---	---
50-11	Altus.....	N. Fk. Red R.....	Altus, Okla.....	2,560	2,560	Jun 1948	7.5	125,200	61.2	52.3	0.68	0.418	476	7,090
50-12	L. Texoma (Denison Dam)	Red R.....	Denison, Tex.....	38,291	28,971	Oct 1948	6.2	4,531,000	--	52.1	0.387	0.794	890	4,190

1/ Suspended-load inflow was 603 acre-feet, suspended-load outflow was 200 acre-feet during period.

2/ Sediment inflow volume was computed to be 2,350 acre-feet, much of this probably settled out over a large area in deposits too thin to be measured accurately by echo sounders.

\* Estimated or assumed.

**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM PY WT
				TOTAL	NET							AC FT	TONS	
SARIFE, HECHEs, AND TRINITY RIVER BASINS														
51-1	Terrell City Lake.....	Kings Cr.....	Terrell, Tex.....	9.20	8.71	Dec 1949	28.25	---	241	59.2	0.9%	2.49	3.211	---
51-2	Lower Beaton Lake.....	Trib of Elm Cr.....	Corsicana, Tex.....	0.91	0.82	Sep 1949	54	---	351	--	0.66	2.57	---	---
51-3	Rurke Weck Lake.....	Trib of Elm Cr.....	Corsicana, Tex.....	0.59	0.54	Sep 1949	69	---	312	--	0.71	2.39	---	---
51-4	Lake Dallas.....	Elm Cr. of Trinity R.	Denton, Tex.....	1,174	1,157	Nov 1938	10.5	---	154	53	0.72	1.13	1,304	---
51-5	Lake Halbert.....	Elm Cr.....	Corsicana, Tex.....	9.48 1/	8.56	Nov 1949	28	---	845	67.4	0.60	5.66	8,308	---
51-6	Maenolia Lake.....	Trib of Elm Cr.....	Corsicana, Tex.....	0.59	0.43	Nov 1949	64	---	1,231	--	0.20	3.53	---	---
51-7	Mountain Creek.....	Mountain Cr.....	Dallas, Tex.....	280	274.4	Nov 1946	9.7	---	124	--	2.86	3.31	---	---
51-8	White Rock.....	White Rock Cr.....	Dallas, Tex.....	99.1	97.1	Apr 1925	24	---	183	49	0.39	1.57	1,782	---
51-9	Grand Saline.....	Simmons Branch.....	Grand Saline, Tex.....	2.12	2.02	Apr 1938	13.25	---	256	38.7	0.21	0.82	691	---
51-10	T & P.....	Timon Cr.....	Weatherford, Tex.....	6.24	6.18	Nov 1938	8.5	---	59 2/	61	1.33	0.796	1,058	---
51-11	Lake Clark.....	Waxahachie Cr.....	Ennis, Tex.....	3.14	2.87	Dec 1950	2/	---	664	50	0.36 2/	2.60	2,931	---
51-12	Wemo City.....	Sedar Cr.....	Wemo, Tex.....	1.48	1.42	Apr 1939	12.8	---	254	--	1.62	4.29	---	---
51-13	Variety Club Boys' Ranch Lake.....	Unnamed Trib.....	Padford, Tex.....	0.30	0.29	Apr 1950	7.9	---	127	--	1.68	2.21	---	---
51-14	Hills Point.....	Maabee Cr.....	Hills Point, Tex.....	1.83	1.75	Apr 1938	23.6	---	216	60.1	1.30	2.93	3,835	---
51-15	Bridgeport.....	W. Fk. Trinity R.....	Bridgeport, Tex.....	1,051	1,033	Feb 1942	10.3	---	278	--	0.10	0.785	---	---
51-16	Faerie Mountain.....	W. Fk. Trinity R.....	Ft. Worth, Tex.....	1,875	809 4/	Nov 1939	5	---	113	--	0.18	1.44	---	---
51-17	Lake Erie.....	Unnamed Trib.....	Ft. Worth, Tex.....	1.05	1.01	Apr 1939	40	---	257	--	0.61	1.63	---	---
51-18	Mabank City Lake.....	Trib of Cedar Cr.....	Athens, Tex.....	0.36	0.23	Apr 1939	13	---	819	--	0.61	5.51	---	---
51-19	Wolf Creek.....	Wolf Cr.....	Palestine, Tex.....	2.55	2.50	Apr 1939	20	---	87	--	0.52	0.46	---	---
51-20	Elkins Lake.....	East Sandy Cr.....	Huntsville, Tex.....	3.18	3.05	Jul 1950	20	---	269	--	0.26	0.72	---	---
51-21	Hurnhy Lake.....	S. Fk. Trinity R.....	Crandall, Tex.....	4.09	3.98	Apr 1939	16.5	---	97.1	60 *	3.95	3.94	5,150	---
LOWER BRAZOS, LOWER COLORADO, GUADALUPE, SAN ANTONIO, AND HECHEs RIVER BASINS														
52-1	Lake Corpus Christi.....	Mueces R.....	Mathis, Tex.....	16,800	16,791	Mar 1942	7.6	---	3.24	34.9	2.57	0.083	63	---
	.....DD.....	.....DD.....	.....DD.....	16,800	16,791	Mar 1948	13.6	---	3.24	35.6	2.03	0.066	51	---
52-2	Medina Lake.....	Medina R.....	San Antonio, Tex.....	587	578	Jan 1937	23.9	---	467	61.1	0.098	0.465	619	---
	.....DD.....	.....DD.....	.....DD.....	587	578	May 1948	35.2	---	467	75	0.093	0.441	720	---
52-3	Buchanan.....	Colorado R.....	Burnet, Tex.....	19,350 5/	19,313	Feb 1941	3.7	1,017.262	50	--	0.42	0.21	---	---
52-4	Moss Ranch Stock Pond.....	So. Bull Cr.....	Llano, Tex.....	0.07	0.07	Feb 1941	32	---	67	--	0.11	0.07	---	---
52-5	Moss Ranch Stock Pond.....	N. Bull Cr.....	Llano, Tex.....	0.20	0.19	Feb 1941	38	---	46	--	0.043	0.021	---	---
52-6	Helms Tank.....	Trib of Sandy Cr.....	Llano, Tex.....	0.15	0.14	Feb 1941	25	---	80	--	0.14	0.12	---	---
BRAZOS RIVER BASIN (SOUTH BEND TO WASHINGTON*) MIDDLE, AND COLORADO RIVER BASINS														
53-1	Lake Scarborough.....	Trib of Jim Med Cr...	Coleman, Tex.....	10.3	10.6	May 1940	17	---	199	51.41	0.40	0.81	907	---
53-2	Santa Anna Lake.....	Mud Cr.....	Santa Anna, Tex.....	1.17	1.05	Apr 1940	17	---	655	45.2	0.16	1.18	1,162	---
53-3	Lake Eanes.....	Mercer Cr.....	Comanche, Tex.....	13.76	12.57	Sep 1946	20.3	---	95.4	--	0.35	0.334	---	---
53-4	Lake Merritt.....	Browne Cr.....	Geldtwaite, Tex.....	11.65	11.50	May 1940	23	---	83	43	0.48	0.40	375	---
53-5	Hubbard City Lake #3.....	Trib of E. Cottonwood Cr	Hubbard, Tex.....	.16	0.14	May 1949	36	---	653 6/	--	0.38	2.86	---	---
53-6	Hubbard City Lake #4.....	F. Cottonwood Cr.....	Hubbard, Tex.....	1.40	1.35	May 1949	32	---	227 7/	--	0.62	1.45	---	---
53-7	Rogers Lake.....	Trib of Little R.....	Rogers, Tex.....	0.55	0.51	Jan 1934	12	---	298	--	1.90	5.68	---	---
53-8	Hubbard City Lake #1.....	Trib of E. Cottonwood Cr	Hubbard, Tex.....	0.5	0.5	May 1949	51	---	220 8/	--	0.45	1.0	---	---
53-9	Hubbard City Lake #2.....	Trib of E. Cottonwood Cr	Hubbard, Tex.....	0.03	0.03	May 1949	37	---	1,210 8/	--	0.25	3.0	---	---
53-10	Hubbard City Lake #5.....	F. Cottonwood Cr.....	Hubbard, Tex.....	0.11	0.10	May 1949	24	---	407	--	0.67	3.0	---	---
53-11	Lake Lawn.....	Redbank Cr.....	Lawn, Tex.....	13	12.8	Mar 1941	30	---	41	--	1.11	0.46	---	---
53-12	Lometa.....	Salt & Emory Cr.....	Lometa, Tex.....	4.74	4.60	Feb 1941	29	---	160	--	0.12	0.20	---	---
53-13	Meridian Lake.....	Bee Cr.....	Meridian, Tex.....	3.30	3.20	Apr 1948	14	---	219	--	0.3	0.69	---	---
53-14	Miller Lake.....	Trib of Horse Cr.....	San Saba, Tex.....	0.41	0.38	Mar 1941	27.5	---	202	--	0.33	0.71	---	---
53-15	Odell Lake.....	Unnamed Trib.....	Hubbard, Tex.....	0.56	0.55	Jul 1949	24	---	134	--	1.25	1.71	---	---
53-16	Possum Winnow Lake.....	Razas R.....	Graford, Tex.....	14,098 9/	12,955	Feb 1949	7.75	900,000	51.8	--	1.02	0.57	---	---
53-17	Rock Crusher.....	Rachelor Cr.....	Coleman, Tex.....	16.5	16.48	Feb 1941	31	---	9.3	--	1.55	0.14	---	---
53-18	Old Santa Anna City L.....	Mukewater Cr.....	Santa Anna, Tex.....	0.90	0.87	Jun 1940	30.5	---	170	--	0.74	1.31	---	---
53-19	Old Coleman City L.....	Home Cr.....	Coleman, Tex.....	0.73	0.69	May 1940	33.6	---	396	--	0.16	0.67	---	---
53-20	Hamilton City Lake.....	Two Mile Cr.....	Hamilton, Tex.....	12	11.9	Mar 1941	17.75	---	51	--	0.46	0.24	---	---
53-21	Lake Leon.....	Leon R.....	Eastland, Tex.....	225	224.7	Mar 1941	20.75	---	7.3	--	1.06	0.08	---	---

53-22	Lake Mineral Wells....	Rock Cr.....	Mineral Wells, Tex..	74.4	73.4	Dec 1941	19.5	---	144	--	0.82	1.19	---	---	
53-23	Buffalo Tank (Knox Tk)	Trib of Pecan Bayou..	Coleman, Tex.....	1.73	1.71	Feb 1941	41	---	19	--	0.31	0.058	---	---	
53-24	R. G. Hollingsworth Stock Pond.....	Trib of Pecan Bayou..	Coleman, Tex.....	2.6	2.58	Feb 1941	3.7	---	7.7	--	8.45	0.66	---	---	
53-25	J. S. Wall Stock Pond.	Trib of Brady Cr....	Brady, Tex.....	0.35	0.35	Mar 1941	14	---	37	--	0.43	0.16	---	---	
53-26	White Tank.....	Trib of Pecan Bayou..	Brownwood, Tex....	0.80	0.80	Mar 1941	4.8	---	5.6	--	4.22	0.24	---	---	
53-27	Zimmerlee Stk. Pond (M)	Trib of Jim Ned Cr...	Lawn, Tex.....	0.13	0.13	Feb 1941	25	---	8.6	--	1.16	0.10	---	---	
53-28	Stith Lake.....	Redbank Cr.....	Lawn, Tex.....	1.04	1.01	Mar 1941	14.6	---	98	--	0.62	0.63	---	---	
53-29	Philoco Lake.....	Paint Cr.....	Pioneer, Tex.....	9.04	9.00	Feb 1941	15.9	---	20	--	6.35	0.07	---	---	
53-30	Lake Brownwood.....	Pecan Bayou.....	Brownwood, Tex....	1,544	1,532	Aug 1934	2.1	---	207,030	96	90	0.14	0.135	265	1,440
	.....DO.....	.....DO.....	.....DO.....	1,544	1,532	Feb 1940	7.6	---	175,820	96	55	6.39	0.380	480	3,120
	.....DO.....	.....DO.....	.....DO.....	1,544	1,532	Aug 1948	16.1	---	156,090	96	53	0.49	0.475	569	4,050
53-31	Lake Waco.....	Bosque R.....	Waco, Tex.....	1,666	1,662	Feb 1935	4.9	---	287,300	23.6	58.5*	2.93	0.695	886	3,770
	.....DO.....	.....DO.....	.....DO.....	1,666	1,662	Feb 1936	5.9	---	321,900	23.6	58.5*	3.35	0.794	1,012	3,846
	.....DO.....	.....DO.....	.....DO.....	1,666	1,662	Dec 1947	17.7	---	407,200	23.6	58.5*	2.49	0.590	752	2,257

UPPER BRAZOS AND UPPER COLORADO RIVER BASIN

54-1	Lake Abilene.....	Elm Cr.....	Abilene, Tex.....	98.5	97.5	Sep 1948	27	---	105	60*	0.19	0.21	274	---
54-2	Lake Masworthy.....	S. Concho R.....	San Angelo, Tex...	3,294	3,292	Dec 1938	8.2	---	3.49	67.5	1.26	0.044	64.7	---
54-3	Lake Sweetwater.....	Bitter Cr.....	Sweetwater, Tex....	110	108.8	Dec 1941	11.8	---	126	--	0.32	0.41	---	---
54-4	Lake Kirby.....	Cedar Cr.....	Abilene, Tex.....	44	42.8	Nov 1941	13.2	---	185	--	0.48	0.91	---	---

RIO GRANDE BASIN (BELOW EAGLE PASS)

55-

RIO GRANDE BASIN (FORT QUITMAN TO EAGLE PASS) AND LOWER PECOS RIVER BASIN

56-

RIO GRANDE BASIN (ESPAÑOLA TO FORT QUITMAN)

57-1	Elephant Butte.....	Rio Grande.....	Hot Springs, N. Mex.	25,923	25,866	Dec 1916	1.9	---	1,573,665	102	--	0.998	1.02	---	---
	.....DO.....	.....DO.....	.....DO.....	25,923	25,866	Aug 1920	5.6	---	1,463,305	102	--	0.922	0.939	---	---
	.....DO.....	.....DO.....	.....DO.....	25,923	25,866	Aug 1925	10.6	---	1,306,250	102	--	0.881	0.895	---	11/
	.....DO.....	.....DO.....	.....DO.....	25,923	25,866	Apr 1935	20.3	---	1,088,616	102	60*	0.683	0.694	621	15,900
	.....DO.....	.....DO.....	.....DO.....	25,923	25,866	Oct 1940	25.8	---	1,058,164	102	--	0.611	0.623	---	11/
	.....DO.....	.....DO.....	.....DO.....	25,923	25,866	Apr 1947	32.3	---	1,077,623	102	--	0.512	0.523	182	13,300

UPPER PECOS RIVER BASIN

58-1	Bonito.....	Bonito Cr, Kraut Gul.	Capitan, New Mex....	40	39.9	Sep 1940	9	---	29.5	--	0.28	0.083	---	---	
58-2	Alamogordo.....	Pecos R.....	Gladaludo, New Mex..	4,393	3,749	Sep 1940	3.25	---	175,500	41.81	--	2.98	0.876	1,410	20,950
	.....DO.....	.....DO.....	.....DO.....	4,393	3,749	Oct 1943	6.33	---	---	41.81	--	---	---	---	---
	.....DO.....	.....DO.....	.....DO.....	4,393	3,749	Apr 1944	6.83	---	196,372	41.81	73.5*	2.50	0.960	1,537	15,120
58-3	Lake Avalon.....	Pecos R.....	Carlsbad, New Mex...	18,070	1,060	1941	36	---	272,400	--	85*	15.9	0.032	59.8	174.3

1/ Excludes area above 2 lakes in watershed which contribute occasional flow to Lake Halbert.  
2/ Spillway crest was raised 2 ft. in 1939 to elev. 1092. Area capacity, and c/w ratio are of 1092 elev.  
3/ Lake Clark was built in 1940 downstream from "Ennis New Lake," or "Club Lake," which was built in 1895. Lake Clark spillway is 2 ft. higher than Club Lake, thus submersing Club Lake and small pond.  
Data is based on combined drainage area, surface area, capacity and sediment volume of all lakes in the system.  
4/ Excludes drainage area of Bridgeport Res. which lies upstream from Eagle Mt. Res.  
5/ Drainage area is 31,250 sq mi., of which 11,900 sq mi. is non-contributing.  
6/ Dam was raised in 1925 and 1949. Capacity based on 1949 level.  
7/ Dam was raised in 1925 and 1949. Capacity based on 1949 level.  
8/ Dam was raised in 1925. Capacity based on 1925 level.  
9/ Includes 1,111 sq. mi. of practically contributing area above other lakes. Excludes 8,950 sq mi of non-contributing area at head of watershed.  
10/ Based on computations for period, figures representing total to date are 1935: 907 and 1947: 751  
11/ Represents total to date figures.  
\* Estimated or assumed.



**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	

UPPER PECOS RIVER BASIN (Cont'd)

58-4	Lake McMillan.....	Pecos R.....	Carlsbad, New Mex...	16,985	12,600	Jun 1904	10.42	---	5.35	--	1.769	0.1218	199.2	---
	.....DO.....	.....DO.....	.....DO.....	16,985	12,600	Nov 1910	16.84	---	5.35	--	1.85	0.1320	455	---
	.....DO.....	.....DO.....	.....DO.....	16,985	12,600	May 1915	21.42	534,000	5.35	--	2.34	0.1667	272	45,250
	.....DO.....	.....DO.....	.....DO.....	16,985	12,600	Dec 1932	39.00	289,000	5.35	--	1.426	0.1019	166.2	9,410
	.....DO.....	.....DO.....	.....DO.....	16,985	12,600	Jan 1940	46.08	273,500	5.35	75	1.247	0.0900	197	7,840

COLORADO RIVER BASIN (BELOW HOOVER DAM)  
Williams & Lower Gila River Basins

59-

GILA RIVER BASIN

60-1	Lake Pleasant.....	Aqua Fria R.....	Phoenix, Ariz.....	1,450	1,444	Feb 1941	12.9	---	127	--	0.34	0.432	---	---
60-2	San Carlos (Coolidge D.)	Gila R.....	Globe, Ariz.....	12,560	11,900	Feb 1935	6.28	279,078	98.25	70*	0.43	0.456	635	1.55
	.....DO.....	.....DO.....	.....DO.....	12,900	11,500	Jan 1937	8.19	255,900	96.25	--	0.35	0.371	566	1.72
	.....DO.....	.....DO.....	.....DO.....	12,900	11,900	Jan 1947	18.19	255,118	98.25	--	0.25	0.266	406	1.24
60-3	Stock Tank No. 16.....	Butler Wash.....	Eden, Ariz.....	0.69	0.69	1941	5.2	---	16.6	--	10.6	1.75	---	---
60-4	Roosevelt-Salt R. Proj.	Salt R. and Tonto Cr.	Globe, Ariz.....	5,760	5,760	Dec 1914	5.67	680,150	264.27	70*	0.309	0.819	1,248.65	7,779.45
	.....DO.....	.....DO.....	.....DO.....	5,760	5,760	Oct 1916	7.54	1,074,649	264.27	70*	0.540	1.429	2,178.65	8,590.45
	.....DO.....	.....DO.....	.....DO.....	5,760	5,760	Sep 1925	16.44	922,349	264.27	70*	0.385	1.018	1,552.04	7,132.04
	.....DO.....	.....DO.....	.....DO.....	5,760	5,760	Jan 1935	25.77	818,052	264.27	70*	0.266	0.702	1,070.27	5,545.12
	.....DO.....	.....DO.....	.....DO.....	5,760	5,760	Jan 1939	29.77	867,544	264.27	70*	0.273	0.722	1,100.76	5,776.47
	.....DO.....	.....DO.....	.....DO.....	5,760	5,760	Jan 1946	36.77	793,732	264.27	70*	0.251	0.664	1,012.33	5,405.95

LITTLE COLORADO AND SAN JUAN RIVER BASINS

61

COLORADO RIVER BASIN (HALLS CROSSING TO HOOVER DAM)  
Virgin River Basin

62

COLORADO RIVER BASIN (ABOVE HALLS CROSSING)  
Gunnison, Dolores and Fremont River Basins

63

GREEN RIVER BASIN

64

GREAT SALT LAKE BASIN

65-

SEVIER RIVER BASIN

66-1	Snoby Hole.....	Bnoyhole Cr.....	Knosharem, Utah.....	5	4.9	Oct 1940	75	---	121	--	0.02	0.024	---	---
66-2	Indian Creek No. 1....	Indian Cr.....	Beaver, Utah.....	12	11.95	Nov 1940	42	---	26.5	--	0.14	0.038	---	---
66-3	Rocky Ford.....	Beaver R.....	Beaver, Utah.....	510	508	Nov 1940	25.8	---	45.6	--	0.29	0.134	---	---
66-4	Rocky Ford.....	Sevier R.....	Sigurd, Utah.....	900	900	Nov 1940	50	---	2.35	--	1.25	0.029	---	---
66-5	Skutumpah.....	Skutumpah Cr.....	Salina, Utah.....	10	9.92	Nov 1940	47	---	66.7	--	0.76	0.508	---	---
66-6	Enterprise.....	Pine Cr.....	Enterprise, Utah.....	25	23.4	Nov 1940	31	---	360	--	0.16	0.620	---	---
66-7	Yankee Meadows.....	Pole Cr.....	Parowan, Utah.....	7	6.9	Nov 1940	14	---	357	--	0.86	3.16	---	---
66-8	Piute.....	Sevier R.....	Harvsville, Utah.....	2,440	2,436	1938	28	---	33.3	--	0.32	0.106	---	---
66-9	Sevier Brido.....	Sevier R.....	Nephi, Utah.....	5,120	1,089	1932	24	---	48.8	--	0.26	0.594	---	---

GREAT BASIN (NORTHWESTERN PART IN CALIF, NEV., AND OREGON)

67

GREAT BASIN

Humboldt, Carson, and Truckee River Basins

68-1	Willow Creek.....	Willow Cr.....	Elko, Nev.....	112	111	See 1939	15	---	137	--	0.11	0.15	---	---
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GREAT BASIN

Owens, Walker, and Mono Lake Drainages

69-1	Weber.....	Walker.....	Shurz, Nev.....	2,600 <sup>f</sup>	2,440	See 1939	4	---	4.7	--	0.42	0.02	---	---
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SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE

70-1	Fullerton F. C. Basin.	Fullerton Cr.....	Brea, Calif.....	3.05	2.95	Nov 1944	3.1	---	310	247	--	0.45	1.15	---	---
70-2	Lake Hodges.....	San Dieguito Cr.....	Escondido, Calif....	303	301	Jul 1935	16.5	---	29,656	121	65*	0.50	0.365	517	3,080
	.....DO.....	.....DO.....	.....DO.....	303	301	Jul 1946	29.5	---	38,595	121	---	0.29	0.352	498	2,050
70-3	Railroad Canyon.....	San Jacinto R.....	Elsinore, Calif.....	718	651	Jun 1939	11	---	---	17	60*	0.14	0.03	39	---
70-4	Lake Sherwood.....	Triunfo Cr.....	Hollywood, Calif....	16	15.7	Mar 1936	31	---	---	179	50*	0.69	0.16	174	---
	.....DO.....	.....DO.....	.....DO.....	16	15.7	Mar 1938	33	---	---	179	---	0.10	0.19	207	---
70-5	Stone Canyon.....	Stone Canyon Cr.....	Sawtelle, Calif.....	1.36	1.16	Jun 1939	18.1	---	5,881	60*	0.033	2.34	3,058	---	
70-6	Bonita Canyon.....	Bonita Cr.....	Orange, Calif.....	4.00	4.00	Jun 1939	2	---	81.5	60*	3.22	2.63	3,437	---	
70-7	Bouquet Canyon.....	Bouquet Cr.....	San Fernando, Calif..	12.6	11.6	Jun 1934	5	---	2,897	40*	0.04	1.10	558	---	
70-8	Chatsworth.....	Trib of Los Angeles R	San Fernando, Calif..	5.4	4.45	Jun 1939	21	---	2,275	40*	0.02	0.51	444	---	
70-9	Lake Hemet.....	Trib of San Jacinto..	Hemet, Calif.....	66	65.3	Jun 1940	48	---	---	212	75*	0.34	0.73	1,130	---
70-10	Launa.....	Trib of Mewont Bay..	Orange, Calif.....	0.75	0.72	Jun 1939	2	---	---	365	40*	1.46	5.56	4,840	---
70-11	Encino.....	Encino Cr.....	Los Angeles, Calif..	1.42	1.30	Jun 1934	18	---	2,274	40*	0.03	0.815	710	---	
70-12	Fairmont.....	Antelope Valley.....	Lancaster, Calif.....	2.64	2.37	Jun 1939	26	---	2,836	---	0.05	1.53	---	---	
70-13	Little Rock.....	Little Rock Cr.....	Palmdale, Calif.....	68	68	Jan 1936	11	---	---	62	85*	0.17	0.10	185	---
	.....DO.....	.....DO.....	.....DO.....	68	68	Jun 1938	14	---	---	62	--	0.96	0.60	1,110	---
	.....DO.....	.....DO.....	.....DO.....	68	68	Oct 1943	19	---	---	62	--	1.01	0.63	1,170	---
	.....DO.....	.....DO.....	.....DO.....	68	68	Dec 1946	22	---	---	62	--	0.93	0.58	1,070	---
70-14	Live Oak.....	Live Oak Cr.....	Pasadena, Calif.....	2.30	2.30	Mar 1926	13.5	---	109	85*	0.24	0.26	481	---	
	.....DO.....	.....DO.....	.....DO.....	2.30	2.30	May 1938	15.9	---	109	---	0.55	0.57	1,060	---	
70-15	Morena.....	Cottonwood Cr.....	San Diego, Calif.....	112	109.4	Dec 1935	25.7	---	596	60*	0.35	2.16	2,823	---	
	.....DO.....	.....DO.....	.....DO.....	112	109.4	Jul 1948	38.3	---	596	---	0.31	1.87	2,444	---	
70-16	Prado.....	Santa Ana R.....	Corona, Calif.....	2,264	2,250	May 1941	1	---	96.5	75*	0.23	0.231	377	---	

\* Estimated or assumed.

**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (Cont'd)														
70-17	Mockingbird Canyon	Mockingbird Canyon	Arlington, Calif.	11.6	11.5	Mar 1940	26	---	86	60*	0.15	0.130	170	---
70-18	Hansen F.C. Basin	Tujunaa Cr.	San Fernando, Calif.	147	146 1/2	Jul 1941	0.8	93,800	244	---	1.66	4.1	---	---
	.....DO.....	.....DO.....	.....DO.....	147	146 1/2	Oct 1943	3.1	53,870	---	---	1.59	3.9	---	---
	.....DO.....	.....DO.....	.....DO.....	147	146 1/2	Nov 1945	5.2	50,720	---	---	1.29	3.2	---	---
70-19	Rrea F.C. Basin	Rrea Cr.	Fullerton, Calif.	23.4	23.1	Oct 1949	7.5	551	178	---	0.227	0.41	---	---
70-20	San Gabriel Dam #2	San Gabriel R.	Azusa, Calif.	39.2	39.0	Jan 1936	0.8	3,400	329	---	5.7 2/3	18.7	---	---
	.....DO.....	.....DO.....	.....DO.....	39.2	39.0	Apr 1938	3.0	32,690	---	---	5.4 2/3	17.9	---	---
	.....DO.....	.....DO.....	.....DO.....	39.2	39.0	Nov 1939	4.6	25,030	---	---	3.5 2/3	11.7	---	---
	.....DO.....	.....DO.....	.....DO.....	39.2	39.0	Nov 1940	5.6	22,170	---	---	2.9 2/3	9.6	---	---
	.....DO.....	.....DO.....	.....DO.....	39.2	39.0	Nov 1941	6.6	28,200	---	---	2.7 2/3	8.87	---	---
	.....DO.....	.....DO.....	.....DO.....	39.2	39.0	Oct 1943	8.5	26,370	---	---	2.5 2/3	8.13	---	---
	.....DO.....	.....DO.....	.....DO.....	39.2	39.0	Jan 1945	9.7	29,700	329	---	2.2 2/3	7.13	---	---
	.....DO.....	.....DO.....	.....DO.....	39.2	39.0	Sep 1946	11.4	27,270	329	---	1.8 2/3	6.66	---	---
	.....DO.....	.....DO.....	.....DO.....	39.2	39.0	Sep 1947	12.4	26,690	329	---	1.7 2/3	5.57	---	---
70-21	San Gabriel Dam #1	San Gabriel R.	Azusa, Calif.	262	242 3/4	Oct 1938	0.9	341,500	---	---	12.8 2/3	28.3	---	---
	.....DO.....	.....DO.....	.....DO.....	203	242 3/4	Nov 1940	3.0	155,800	---	---	4.4 2/3	9.65	---	---
	.....DO.....	.....DO.....	.....DO.....	203	242 3/4	Sep 1941	3.8	202,800	---	---	3.7 2/3	8.13	---	---
	.....DO.....	.....DO.....	.....DO.....	203	242 3/4	Oct 1942	4.8	171,300	---	---	3.0 2/3	6.53	---	---
	.....DO.....	.....DO.....	.....DO.....	203	242 3/4	Sep 1943	5.8	188,300	---	---	3.0 2/3	6.63	---	---
	.....DO.....	.....DO.....	.....DO.....	203	242 3/4	Oct 1944	6.9	184,200	---	---	---	---	---	---
	.....DO.....	.....DO.....	.....DO.....	203	242 3/4	Nov 1945	7.9	172,900	---	---	2.2 2/3	4.9	---	---
	.....DO.....	.....DO.....	.....DO.....	203	242 3/4	Nov 1948	10.9	146,600	---	---	1.7 2/3	3.74	---	---
	.....DO.....	.....DO.....	.....DO.....	203	242 3/4	Nov 1951	13.9	11,900	---	---	1.3 2/3	2.93	---	---
70-22	Morris Dam	San Gabriel R.	Azusa, Calif.	211.3	210.7	Jan 1936	2.1	55,752	---	---	0.76	1.41	---	---
	.....DO.....	.....DO.....	.....DO.....	211.3	210.7	Feb 1938	4.2	80,638	---	---	1.30	2.42	---	---
	.....DO.....	.....DO.....	.....DO.....	211.3	210.7	Oct 1938	4.9	124,069	---	---	1.38	2.58	---	---
	.....DO.....	.....DO.....	.....DO.....	211.3	210.7	Dec 1949	16.1	99,557	---	---	0.65	1.22	---	---
70-23	San Dimas Basin	San Dimas Wash.	San Dimas, Calif.	16.2	16.1	Dec 1935	13.2	---	92	---	0.62 2/3	0.58	---	---
	.....DO.....	.....DO.....	.....DO.....	16.2	16.1	Oct 1938	16.1	6,900	---	---	1.42 2/3	1.32	---	---
	.....DO.....	.....DO.....	.....DO.....	16.2	16.1	Nov 1939	17.1	5,690	---	---	---	---	---	---
	.....DO.....	.....DO.....	.....DO.....	16.2	16.1	Dec 1941	19.2	5,080	---	---	1.35 2/3	1.24	---	---
	.....DO.....	.....DO.....	.....DO.....	16.2	16.1	Oct 1943	21.1	5,600	---	---	1.46 2/3	1.35	---	---
	.....DO.....	.....DO.....	.....DO.....	16.2	16.1	Nov 1944	22.1	5,656	---	---	1.48 2/3	1.37	---	---
70-24	Puddingstone Diversion	San Dimas Cr.	San Dimas, Calif.	18.8	2.6	Jan 1936	6.2	---	79	---	2.9 2/3	1.68	---	---
	.....DO.....	.....DO.....	.....DO.....	18.8	2.6	Mar 1938	8.3	6,760	---	---	8.0 2/3	14.2	---	---
	.....DO.....	.....DO.....	.....DO.....	18.8	2.6	Nov 1939	10.1	4,180	---	---	---	---	---	---
	.....DO.....	.....DO.....	.....DO.....	18.8	2.6	Oct 1942	13.0	3,540	---	---	---	---	---	---
	.....DO.....	.....DO.....	.....DO.....	18.8	2.6	Sep 1944	15.0	4,110	---	---	---	---	---	---
70-25	Puddingstone Dam	Puddingstone Cr.	San Dimas, Calif.	32.2	11.0	Jan 1941	13.0	2,040	540	---	0.092	1.45	---	---
70-26	Rig Dalton	Rig Dalton Cr.	Glendora, Calif.	4.5	4.5	Sep 1931	1.7	53	265	---	7.64 2/3	20.3	---	---
	.....DO.....	.....DO.....	.....DO.....	4.5	4.5	Jan 1935	5.0	266	---	---	2.60 2/3	6.89	---	---
	.....DO.....	.....DO.....	.....DO.....	4.5	4.5	Mar 1938	8.1	833	---	---	2.47 2/3	6.56	---	---
	.....DO.....	.....DO.....	.....DO.....	4.5	4.5	Sep 1943	13.6	1,040	---	---	1.57 2/3	4.17	---	---
	.....DO.....	.....DO.....	.....DO.....	4.5	4.5	Oct 1944	14.6	1,050	---	---	1.47 2/3	3.90	---	---
70-27	Rig Santa Anita	Santa Anita R.	Arcadia, Calif.	10.8	10.8	Feb 1935	7.9	1,958	127	---	2.83 2/3	3.61	---	---
	.....DO.....	.....DO.....	.....DO.....	10.8	10.8	Feb 1936	8.9	2,017	---	---	2.95 2/3	3.77	---	---
	.....DO.....	.....DO.....	.....DO.....	10.8	10.8	Jul 1938	11.3	3,899	---	---	4.52 2/3	5.64	---	---
	.....DO.....	.....DO.....	.....DO.....	10.8	10.8	Feb 1940	12.9	3,778	---	---	3.87 2/3	4.94	---	---
	.....DO.....	.....DO.....	.....DO.....	10.8	10.8	Feb 1942	14.9	4,451	---	---	3.40 2/3	4.33	---	---
	.....DO.....	.....DO.....	.....DO.....	10.8	10.8	Mar 1943	16.0	5,162	---	---	3.76 2/3	4.81	---	---
	.....DO.....	.....DO.....	.....DO.....	10.8	10.8	Sep 1943	16.5	5,225	---	---	3.65 2/3	4.65	---	---
	.....DO.....	.....DO.....	.....DO.....	10.8	10.8	May 1944	17.2	5,405	---	---	3.51 2/3	4.47	---	---
	.....DO.....	.....DO.....	.....DO.....	10.8	10.8	Jan 1947	19.9	5,157	---	---	3.03 2/3	3.86	---	---
70-28	Rig Tujunaa Dam	Rig Tujunaa Cr.	Sunland, Calif.	82.3	82.2	May 1938	6.9	18,350	76	---	3.50 2/3	2.55	---	---
	.....DO.....	.....DO.....	.....DO.....	82.3	82.2	Oct 1939	8.4	16,660	---	---	3.35 2/3	2.54	---	---
	.....DO.....	.....DO.....	.....DO.....	82.3	82.2	Feb 1940	8.7	16,570	---	---	2.80 2/3	2.45	---	---
	.....DO.....	.....DO.....	.....DO.....	82.3	82.2	Jul 1941	10.2	20,096	---	---	2.98 2/3	2.26	---	---
	.....DO.....	.....DO.....	.....DO.....	82.3	82.2	Feb 1943	11.7	20,710	---	---	2.12 2/3	2.37	---	---
	.....DO.....	.....DO.....	.....DO.....	82.3	82.2	Apr 1943	11.9	22,000	---	---	3.06 2/3	2.33	---	---
	.....DO.....	.....DO.....	.....DO.....	82.3	82.2	Jun 1944	13.0	23,600	---	---	2.80 2/3	2.13	---	---

70-29	Devil's Gate.....	Arroyo Seco.....	Pasadena, Calif.....	31.9	31.9	Jun 1933	13.0	---	144	---	0.08	2/	0.11	---	---
	.DO.....	.DO.....	.DO.....	31.9	31.9	See 1934	14.2	2,450	---	---	0.73	2/	1.05	---	---
	.DO.....	.DO.....	.DO.....	31.9	31.9	Jan 1935	14.5	3,130	---	---	0.91	2/	1.31	---	---
	.DO.....	.DO.....	.DO.....	31.9	31.9	Jun 1938	18.0	9,890	---	---	1.97	2/	2.85	---	---
	.DO.....	.DO.....	.DO.....	31.9	31.9	Jan 1942	21.6	9,500	---	---	1.88	2/	2.72	---	---
	.DO.....	.DO.....	.DO.....	31.9	31.9	Jan 1943	22.6	9,380	---	---	2.02	2/	2.91	---	---
	.DO.....	.DO.....	.DO.....	31.9	31.9	Sep 1948	28.3	8,280	---	---	1.61	2/	2.32	---	---
70-30	Eaton Wash.....	Eaton Wash.....	Pasadena, Calif.....	9.5	9.4	Feb 1937	1	---	101	---	1.15	2/	1.17	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	May 1938	2.3	4,370	---	---	11.7	2/	11.93	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	Dec 1938	2.9	3,520	---	---	9.3	2/	9.46	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	Oct 1940	4.7	2,370	---	---	5.74	2/	5.84	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	Aug 1941	5.5	3,360	---	---	5.48	2/	5.57	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	Jun 1942	6.3	2,940	---	---	4.78	2/	4.86	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	Oct 1943	7.7	3,340	---	---	5.13	2/	5.22	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	Oct 1944	8.7	3,290	---	---	4.84	2/	4.93	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	Oct 1946	10.7	2,760	---	---	3.94	2/	4.01	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	May 1947	11.3	2,680	---	---	3.85	2/	3.92	---	---
	.DO.....	.DO.....	.DO.....	9.5	9.4	Jun 1950	14.4	2,120	---	---	3.02	2/	3.07	---	---
70-31	Pacoima.....	Pacoima Cr.....	San Fernando, Calif.....	28.2	28.2	Jan 1936	6.3	3,700	215	---	1.23	2/	2.63	---	---
	.DO.....	.DO.....	.DO.....	28.2	28.2	Mar 1938	8.4	7,460	---	---	2.07	2/	4.46	---	---
	.DO.....	.DO.....	.DO.....	28.2	28.2	Oct 1942	12.9	7,850	---	---	1.56	2/	3.36	---	---
70-32	Santiago Dam.....	Santiago Cr.....	Villa Park, Calif.....	28.2	28.2	Dec 1944	14.9	9,240	---	---	1.49	2/	3.20	---	---
70-23	Sawoit.....	Sawoit R.....	Monrovia, Calif.....	63	62.1	Sep 1948	16.6	15,380	397	---	0.04	2/	0.15	---	---
	.DO.....	.DO.....	.DO.....	3.3	3.3	Oct 1935	8.3	284	144	---	2.21	2/	3.18	---	---
	.DO.....	.DO.....	.DO.....	3.3	3.3	Mar 1938	10.9	610	---	---	3.00	2/	4.33	---	---
	.DO.....	.DO.....	.DO.....	3.3	3.3	May 1941	13.9	710	---	---	2.35	2/	3.39	---	---
	.DO.....	.DO.....	.DO.....	3.3	3.3	Dec 1943	15.5	840	---	---	2.40	2/	3.46	---	---
70-34	Sierra Madre Dam.....	Ltl. Santa Anita Cr.....	Sierra Madre, Calif.....	2.39	2.39	Feb 1930	2.0	---	21	---	0	2/	0	---	---
	.DO.....	.DO.....	.DO.....	2.39	2.39	Feb 1932	4.0	---	---	---	1.45	2/	6.31	---	---
	.DO.....	.DO.....	.DO.....	2.39	2.39	Nov 1933	11.8	---	---	---	2.68	2/	0.56	---	---
	.DO.....	.DO.....	.DO.....	2.39	2.39	Jan 1944	15.9	---	---	---	1.39	2/	0.42	---	---
	.DO.....	.DO.....	.DO.....	2.39	2.39	Oct 1944	16.7	---	---	---	2.13	2/	0.45	---	---
70-35	Thompson Creek Dam.....	Thomson Cr.....	Claremont, Calif.....	3.5	3.5	Oct 1932	4.5	---	198	---	1.58	2/	3.2	---	---
	.DO.....	.DO.....	.DO.....	3.5	3.5	Jan 1943	14.8	255	---	---	0.78	2/	1.5	---	---
70-36	Aliso Wilbur Deb. B.....	Aliso Canyon.....	Northridge, Calif.....	8.63	8.63	Sep 1943	1	---	---	---	---	4/	3.17	---	---
	.DO.....	.DO.....	.DO.....	8.63	8.63	See 1944	2	---	---	---	---	4/	2.94	---	---
	.DO.....	.DO.....	.DO.....	8.63	8.63	See 1945	3	---	---	---	---	4/	2.17	---	---
	.DO.....	.DO.....	.DO.....	8.63	8.63	See 1946	4	---	---	---	---	4/	1.88	---	---
	.DO.....	.DO.....	.DO.....	8.63	8.63	See 1947	5	---	---	---	---	4/	1.68	---	---
	.DO.....	.DO.....	.DO.....	8.63	8.63	See 1948	6	---	---	---	---	4/	1.48	---	---
	.DO.....	.DO.....	.DO.....	8.63	8.63	See 1949	7	---	---	---	---	4/	1.31	---	---
	.DO.....	.DO.....	.DO.....	8.63	8.63	See 1950	8	---	---	---	---	4/	1.16	---	---
70-37	Altadena Debris Basin.....	Rubio R.....	Altadena, Calif.....	0.65	0.65	See 1947	1	---	---	---	---	4/	1.34	---	---
	.DO.....	.DO.....	.DO.....	0.65	0.65	See 1948	2	---	---	---	---	4/	1.63	---	---
	.DO.....	.DO.....	.DO.....	0.65	0.65	See 1949	3	---	---	---	---	4/	1.54	---	---
	.DO.....	.DO.....	.DO.....	0.65	0.65	See 1950	4	---	---	---	---	4/	1.55	---	---
79-38	Bailey Debris Basin.....	Bailey R.....	Sierra Madre, Calif.....	0.57	0.57	See 1946	1	---	---	---	---	4/	0.84	---	---
	.DO.....	.DO.....	.DO.....	0.57	0.57	See 1947	2	---	---	---	---	4/	0.42	---	---
	.DO.....	.DO.....	.DO.....	0.57	0.57	See 1948	3	---	---	---	---	4/	0.28	---	---
	.DO.....	.DO.....	.DO.....	0.57	0.57	See 1949	4	---	---	---	---	4/	0.21	---	---
	.DO.....	.DO.....	.DO.....	0.57	0.57	See 1950	5	---	---	---	---	4/	0.18	---	---
70-39	Brand Debris Basin.....	Brand R.....	LaCanada, Calif.....	1.03	1.03	See 1940	5	---	---	---	---	4/	0.58	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1941	6	---	---	---	---	4/	0.59	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1942	7	---	---	---	---	4/	0.50	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1943	8	---	---	---	---	4/	0.68	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1944	9	---	---	---	---	4/	0.62	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1945	10	---	---	---	---	4/	0.56	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1946	11	---	---	---	---	4/	0.50	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1947	12	---	---	---	---	4/	0.48	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1948	13	---	---	---	---	4/	0.44	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1949	14	---	---	---	---	4/	0.41	---	---
	.DO.....	.DO.....	.DO.....	1.03	1.03	See 1950	15	---	---	---	---	4/	0.38	---	---
70-40	Dunsmuir Debris Basin.....	Dunsmuir R.....	Tunjunga, Calif.....	0.84	0.84	See 1936	1	---	---	---	---	4/	0.69	---	---
	.DO.....	.DO.....	.DO.....	0.84	0.84	See 1938	3	---	---	---	---	4/	19.5	---	---
	.DO.....	.DO.....	.DO.....	0.84	0.84	See 1940	5	---	---	---	---	4/	15.0	---	---
	.DO.....	.DO.....	.DO.....	0.84	0.84	See 1941	6	---	---	---	---	4/	13.9	---	---
	.DO.....	.DO.....	.DO.....	0.84	0.84	See 1942	7	---	---	---	---	4/	12.0	---	---
	.DO.....	.DO.....	.DO.....	0.84	0.84	See 1943	8	---	---	---	---	4/	11.8	---	---
	.DO.....	.DO.....	.DO.....	0.84	0.84	See 1944	9	---	---	---	---	4/	10.8	---	---
	.DO.....	.DO.....	.DO.....	0.84	0.84	See 1945	10	---	---	---	---	4/	9.77	---	---

Continued on Next Page

1/ Practically all sediment inflow is passed downstream by sluicing operations.

2/ Deposition, if any, in years of sluicing is not included in the summation.

3/ Includes San Gabriel Dam #2 drainage area as sediment is sluiced into San Gabriel Dam #1 drainage area.

4/ Debris excavated at various times.

\* Estimated or assumed.

**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRES FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PEP SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (CONT'D)														
70-40	Dunsmuir Debris Basin.	Dunsmuir R.	Tijuana, Calif.	0.84	0.84	Sep 1946	11	---	---	---	-- 1/	9.17	---	---
(Contd)	.....DO.....	.....DO.....	.....DO.....	0.84	0.84	Sep 1947	12	---	---	---	-- 1/	8.56	---	---
	.....DO.....	.....DO.....	.....DO.....	0.84	0.84	Sep 1948	13	---	---	---	-- 1/	7.85	---	---
	.....DO.....	.....DO.....	.....DO.....	0.84	0.84	Sep 1949	14	---	---	---	-- 1/	7.29	---	---
	.....DO.....	.....DO.....	.....DO.....	0.84	0.84	Sep 1950	15	---	---	---	-- 1/	6.80	---	---
70-41	Eagle Debris Basin.	Eagle R.	La Crescenta, Calif.	0.61	0.61	Sep 1938	2	---	---	---	-- 1/	21.2	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1939	3	---	---	---	-- 1/	18.0	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1941	5	---	---	---	-- 1/	13.6	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1942	6	---	---	---	-- 1/	11.4	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1943	7	---	---	---	-- 1/	12.6	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1944	8	---	---	---	-- 1/	11.1	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1945	9	---	---	---	-- 1/	9.98	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1946	10	---	---	---	-- 1/	9.05	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1947	11	---	---	---	-- 1/	8.26	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1948	12	---	---	---	-- 1/	7.59	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1949	13	---	---	---	-- 1/	7.00	---	---
	.....DO.....	.....DO.....	.....DO.....	0.61	0.61	Sep 1950	14	---	---	---	-- 1/	6.49	---	---
70-42	Fair Oaks Debris Basin.	Fair Oaks R.	Altadena, Calif.	0.21	0.21	Sep 1936	1	---	---	---	-- 1/	46.4	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	Sep 1938	3	---	---	---	-- 1/	47.1	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	Sep 1941	6	---	---	---	-- 1/	25.6	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	Sep 1943	8	---	---	---	-- 1/	20.4	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	Sep 1944	9	---	---	---	-- 1/	18.1	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	Sep 1945	10	---	---	---	-- 1/	16.5	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	Sep 1946	11	---	---	---	-- 1/	15.2	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	1947	12	---	---	---	-- 1/	14.1	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	1948	13	---	---	---	-- 1/	13.0	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	1949	14	---	---	---	-- 1/	12.1	---	---
	.....DO.....	.....DO.....	.....DO.....	0.21	0.21	1950	15	---	---	---	-- 1/	11.3	---	---
70-43	Fern Debris Basin.	Fern R.	Altadena, Calif.	0.30	0.30	Sep 1936	1	---	---	---	-- 1/	31.2	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1938	3	---	---	---	-- 1/	38.0	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1941	6	---	---	---	-- 1/	20.6	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1942	7	---	---	---	-- 1/	17.7	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1943	8	---	---	---	-- 1/	18.2	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1944	9	---	---	---	-- 1/	16.9	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1945	10	---	---	---	-- 1/	15.5	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1946	11	---	---	---	-- 1/	14.3	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1947	12	---	---	---	-- 1/	13.2	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1948	13	---	---	---	-- 1/	12.2	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1949	14	---	---	---	-- 1/	11.3	---	---
	.....DO.....	.....DO.....	.....DO.....	0.30	0.30	Sep 1950	15	---	---	---	-- 1/	10.5	---	---
70-44	Gould Debris Basin.	Gould R.	La Canada, Calif.	0.47	0.47	Sep 1950	3	---	---	---	0	0	---	---
70-45	Haines Debris Basin.	Haines R.	Tijuana, Calif.	1.53	1.53	Sep 1938	3	---	---	---	-- 1/	6.93	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1940	5	---	---	---	-- 1/	5.10	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1941	6	---	---	---	-- 1/	5.10	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1943	8	---	---	---	-- 1/	4.88	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1944	9	---	---	---	-- 1/	4.73	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1945	10	---	---	---	-- 1/	4.52	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1946	11	---	---	---	-- 1/	4.10	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1947	12	---	---	---	-- 1/	3.80	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1948	13	---	---	---	-- 1/	3.50	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1949	14	---	---	---	-- 1/	3.25	---	---
	.....DO.....	.....DO.....	.....DO.....	1.53	1.53	Sep 1950	15	---	---	---	-- 1/	3.04	---	---
70-46	Hall's Debris Basin.	Hall-Beckley R.	La Canada, Calif.	0.84 2/	0.84	Sep 1936	1	---	---	---	-- 1/	17.3	---	---
	.....DO.....	.....DO.....	.....DO.....	0.84	0.84	Sep 1937	2	---	---	---	-- 1/	15.5	---	---
	.....DO.....	.....DO.....	.....DO.....	0.84	0.84	Sep 1938	3	---	---	---	-- 1/	35.5	---	---
	.....DO.....	.....DO.....	.....DO.....	0.84	0.84	Sep 1941	6	---	---	---	-- 1/	23.8	---	---
	.....DO.....	.....DO.....	.....DO.....	0.84	0.84	Sep 1943	8	---	---	---	-- 1/	22.1	---	---
	.....DO.....	.....DO.....	.....DO.....	0.84	0.84	Sep 1944	9	---	---	---	-- 1/	20.5	---	---
	.....DO.....	.....DO.....	.....DO.....	1.06 2/	1.06	Sep 1945	10	---	---	---	-- 1/	14.9	---	---
	.....DO.....	.....DO.....	.....DO.....	1.06	1.06	Sep 1946	11	---	---	---	-- 1/	13.7	---	---
	.....DO.....	.....DO.....	.....DO.....	1.06	1.06	Sep 1947	12	---	---	---	-- 1/	12.7	---	---
	.....DO.....	.....DO.....	.....DO.....	1.06	1.06	Sep 1948	13	---	---	---	-- 1/	11.8	---	---
	.....DO.....	.....DO.....	.....DO.....	1.06	1.06	Sep 1949	14	---	---	---	-- 1/	10.9	---	---
	.....DO.....	.....DO.....	.....DO.....	1.06	1.06	Sep 1950	15	---	---	---	-- 1/	10.2	---	---

70-47	Hay Debris Basin.....	Hay R.....	LaCanada, Calif.....	0.20	0.20	Sep 1938	2	---	---	---	1/	28.3	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1939	3	---	---	---	1/	21.0	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1940	4	---	---	---	1/	15.9	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1941	5	---	---	---	1/	13.1	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1943	7	---	---	---	1/	10.7	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1944	8	---	---	---	1/	9.45	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1945	9	---	---	---	1/	8.55	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1946	10	---	---	---	1/	7.7	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1947	11	---	---	---	1/	7	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1948	12	---	---	---	1/	6.4	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1949	13	---	---	---	1/	5.9	---	---
	.....DO.....	.....DO.....	.....DO.....	0.20	0.20	Sep 1950	14	---	---	---	1/	5.5	---	---
70-48	Los Flores Deb. Basin,	Los Flores R.....	Altadena, Calif.....	0.45	0.45	Sep 1936	3	---	---	---	1/	14.7	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1938	4	---	---	---	1/	30.4	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1939	4	---	---	---	1/	23.2	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1943	8	---	---	---	1/	13.8	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1944	9	---	---	---	1/	12.7	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1945	10	---	---	---	1/	11.5	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1946	11	---	---	---	1/	10.5	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1947	12	---	---	---	1/	9.71	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1948	13	---	---	---	1/	8.96	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1949	14	---	---	---	1/	8.31	---	---
	.....DO.....	.....DO.....	.....DO.....	0.45	0.45	Sep 1950	15	---	---	---	1/	7.75	---	---
70-49	Lincoln Debris Basin..	Lincoln R.....	Altadena, Calif.....	0.50	0.50	Sep 1936	1	---	---	---	1/	8.86	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1938	3	---	---	---	1/	15.2	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1940	5	---	---	---	1/	9.48	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1941	6	---	---	---	1/	10.4	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1943	8	---	---	---	1/	9.42	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1944	9	---	---	---	1/	8.64	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1945	10	---	---	---	1/	7.84	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1946	11	---	---	---	1/	7.12	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1947	12	---	---	---	1/	6.70	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1948	13	---	---	---	1/	6.18	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1949	14	---	---	---	1/	5.74	---	---
	.....DO.....	.....DO.....	.....DO.....	0.50	0.50	Sep 1950	15	---	---	---	1/	5.36	---	---
70-50	Nichols Debris Basin..	Nichols R.....	Hollywood, Calif.....	0.94	0.94	Sep 1942	5	---	---	---	1/	3.18	---	---
	.....DO.....	.....DO.....	.....DO.....	0.94	0.94	Sep 1943	6	---	---	---	1/	2.98	---	---
	.....DO.....	.....DO.....	.....DO.....	0.94	0.94	Sep 1944	7	---	---	---	1/	2.62	---	---
	.....DO.....	.....DO.....	.....DO.....	0.94	0.94	Sep 1945	8	---	---	---	1/	2.32	---	---
	.....DO.....	.....DO.....	.....DO.....	0.94	0.94	Sep 1946	9	---	---	---	1/	2.09	---	---
	.....DO.....	.....DO.....	.....DO.....	0.94	0.94	Sep 1947	10	---	---	---	1/	2.24	---	---
	.....DO.....	.....DO.....	.....DO.....	0.94	0.94	Sep 1948	11	---	---	---	1/	2.07	---	---
	.....DO.....	.....DO.....	.....DO.....	0.94	0.94	Sep 1949	12	---	---	---	1/	1.93	---	---
70-51	Paradise Debris Basin.	Paradise R.....	LaCanada, Calif.....	0.96	0.96	Sep 1945	1	---	---	---	1/	1.84	---	---
	.....DO.....	.....DO.....	.....DO.....	0.96	0.96	Sep 1946	2	---	---	---	1/	1.18	---	---
	.....DO.....	.....DO.....	.....DO.....	0.96	0.96	Sep 1947	3	---	---	---	1/	1.04	---	---
	.....DO.....	.....DO.....	.....DO.....	0.96	0.96	Sep 1948	4	---	---	---	1/	1.03	---	---
	.....DO.....	.....DO.....	.....DO.....	0.96	0.96	Sep 1949	5	---	---	---	1/	0.81	---	---
	.....DO.....	.....DO.....	.....DO.....	0.96	0.96	Sep 1950	6	---	---	---	1/	0.67	---	---
70-52	Pickens Debris Basin..	Pickens R.....	LaCrescenta, Calif..	1.84	1.84	Sep 1936	1	---	---	---	1/	6.0	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1937	2	---	---	---	1/	8.9	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1938	3	---	---	---	1/	26.9	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1939	4	---	---	---	1/	16.4	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1940	5	---	---	---	1/	14.1	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1941	6	---	---	---	1/	13.6	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1943	8	---	---	---	1/	12.5	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1944	9	---	---	---	1/	11.4	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1945	10	---	---	---	1/	10.3	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1946	11	---	---	---	1/	9.4	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1947	12	---	---	---	1/	8.7	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1948	13	---	---	---	1/	8.1	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1949	14	---	---	---	1/	7.5	---	---
	.....DO.....	.....DO.....	.....DO.....	1.84	1.84	Sep 1950	15	---	---	---	1/	7.0	---	---
70-53	Rubio Debris Basin....	Rubio Canyon.....	Altadena, Calif.....	1.3	1.3	Sep 1946	3	---	---	---	1/	0.68	---	---
	.....DO.....	.....DO.....	.....DO.....	1.3	1.3	Sep 1947	4	---	---	---	1/	0.59	---	---
	.....DO.....	.....DO.....	.....DO.....	1.3	1.3	Sep 1948	5	---	---	---	1/	0.48	---	---
	.....DO.....	.....DO.....	.....DO.....	1.3	1.3	Sep 1949	6	---	---	---	1/	0.39	---	---
	.....DO.....	.....DO.....	.....DO.....	1.3	1.3	Sep 1950	7	---	---	---	1/	0.34	---	---
70-54	Scholl Debris Basin... Scholl R.....	Glendale, Calif.....	0.66	0.66	Sep 1947	2	---	---	---	1/	0.32	---	---	---
	.....DO.....	.....DO.....	.....DO.....	0.66	0.66	Sep 1948	2	---	---	---	1/	0.21	---	---
	.....DO.....	.....DO.....	.....DO.....	0.66	0.66	Sep 1949	4	---	---	---	1/	0.15	---	---
	.....DO.....	.....DO.....	.....DO.....	0.66	0.66	Sep 1950	5	---	---	---	1/	0.12	---	---

1/ Debris excavated at various times.

2/ Drainage area 0.84 Sq. M. to 1945 - 1.06 Sq. M. beginning 1945.

## SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RINOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
SALT ON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (cont'd)														
70-55	Shields Debris Basin..	Shields R.....	LaCrescenta, Calif..	0.27	0.27	Sep 1938	1	---	---	---	1/	77.0	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1939	2	---	---	---	1/	43.7	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1941	4	---	---	---	1/	27.1	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1943	6	---	---	---	1/	26.1	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1944	7	---	---	---	1/	17.5	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1945	8	---	---	---	1/	15.4	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1946	9	---	---	---	1/	13.8	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1947	10	---	---	---	1/	12.4	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1948	11	---	---	---	1/	11.3	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1949	12	---	---	---	1/	10.4	---	---
	.....00.....	.....00.....	.....00.....	0.27	0.27	Sep 1950	13	---	---	---	1/	9.56	---	---
70-56	Snover Debris Basin...	Snover R.....	LaCrescenta, Calif..	0.23	0.23	Sep 1938	2	---	---	---	1/	22.6	---	---
	.....00.....	.....00.....	.....00.....	0.23	0.23	Sep 1939	3	---	---	---	1/	34.0	---	---
	.....00.....	.....00.....	.....00.....	0.23	0.23	Sep 1941	5	---	---	---	1/	22.2	---	---
	.....00.....	.....00.....	.....00.....	0.23	0.23	Sep 1943	7	---	---	---	1/	18.3	---	---
70-57	Soarr Debris Basin...	Soarr Canyon.....	Montrose, Calif.....	0.84	0.84	Sep 1947	1	---	---	---	---	---	---	---
	.....00.....	.....00.....	.....00.....	0.84	0.84	Sep 1948	2	---	---	---	---	---	---	---
	.....00.....	.....00.....	.....00.....	0.84	0.84	Sep 1949	3	---	---	---	---	---	---	---
	.....00.....	.....00.....	.....00.....	0.84	0.84	Sep 1950	4	---	---	---	---	---	---	---
70-58	Stough Debris Basin...	Stough R.....	Burbank, Calif.....	1.65	1.65	Sep 1943	3	---	---	---	1/	4.22	---	---
	.....00.....	.....00.....	.....00.....	1.65	1.65	Sep 1944	4	---	---	---	1/	3.88	---	---
	.....00.....	.....00.....	.....00.....	1.65	1.65	Sep 1945	5	---	---	---	1/	3.45	---	---
	.....00.....	.....00.....	.....00.....	1.65	1.65	Sep 1946	6	---	---	---	1/	2.88	---	---
	.....00.....	.....00.....	.....00.....	1.65	1.65	Sep 1947	7	---	---	---	1/	2.47	---	---
	.....00.....	.....00.....	.....00.....	1.65	1.65	Sep 1948	8	---	---	---	1/	1.73	---	---
	.....00.....	.....00.....	.....00.....	1.65	1.65	Sep 1950	10	---	---	---	1/	1.34	---	---
70-59	Sunset Canyon D. Basin	Sunset Canyon Cr....	Burbank, Calif.....	0.44	0.44	Sep 1942	13	---	---	---	1/	1.27	---	---
	.....00.....	.....00.....	.....00.....	0.44	0.44	Sep 1944	15	---	---	---	1/	1.20	---	---
	.....00.....	.....00.....	.....00.....	0.44	0.44	Sep 1945	16	---	---	---	1/	1.14	---	---
	.....00.....	.....00.....	.....00.....	0.44	0.44	Sep 1946	17	---	---	---	1/	1.07	---	---
	.....00.....	.....00.....	.....00.....	0.44	0.44	Sep 1950	21	---	---	---	1/	0.93	---	---
70-60	Vanalden Debris Basin.	Vanalden R.....	Encino, Calif.....	1.08	1.08	Sep 1946	1	---	---	---	1/	0.32	---	---
	.....00.....	.....00.....	.....00.....	1.08	1.08	Sep 1947	2	---	---	---	1/	0.18	---	---
	.....00.....	.....00.....	.....00.....	1.08	1.08	Sep 1950	5	---	---	---	1/	0.06	---	---
70-61	Verdugo Debris Basin..	Verdugo Cr.....	Montrose, Calif.....	15.5	10.	Sep 1938	3	---	---	---	1/	2.16	---	---
	.....00.....	.....00.....	.....00.....	15.5	10.	Sep 1941	6	---	---	---	1/	1.98	---	---
	.....00.....	.....00.....	.....00.....	15.5	10.	Sep 1943	8	---	---	---	1/	2.34	---	---
	.....00.....	.....00.....	.....00.....	15.5	10.	Sep 1944	9	---	---	---	1/	2.22	---	---
	.....00.....	.....00.....	.....00.....	15.5	10.	Sep 1950	15	---	---	---	1/	1.33	---	---
70-62	Ward Debris Basin.....	Ward P.....	LaCrescenta, Calif..	0.35	0.35	Sep 1945	1	---	---	---	1/	0.51	---	---
	.....00.....	.....00.....	.....00.....	0.35	0.35	Sep 1946	2	---	---	---	1/	1.09	---	---
	.....00.....	.....00.....	.....00.....	0.35	0.35	Sep 1947	3	---	---	---	1/	2.34	---	---
	.....00.....	.....00.....	.....00.....	0.64	0.64	Sep 1948	4	---	---	---	1/	1.20	---	---
	.....00.....	.....00.....	.....00.....	0.54	0.54	Sep 1949	5	---	---	---	1/	1.03	---	---
	.....00.....	.....00.....	.....00.....	0.54	0.54	Sep 1950	6	---	---	---	1/	1.05	---	---
70-63	W. Ravine Debris Basin	West Ravine.....	Alladena, Calif.....	0.25	0.25	Sep 1936	1	---	---	---	1/	47.85	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1937	2	---	---	---	1/	46.6	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1938	3	---	---	---	1/	55.6	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1940	5	---	---	---	1/	34.9	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1941	6	---	---	---	1/	32.6	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1942	7	---	---	---	1/	28.0	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1943	8	---	---	---	1/	27.0	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1944	9	---	---	---	1/	24.9	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1945	10	---	---	---	1/	22.5	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1946	11	---	---	---	1/	20.6	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1947	12	---	---	---	1/	19.0	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1948	13	---	---	---	1/	17.6	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1949	14	---	---	---	1/	16.3	---	---
	.....00.....	.....00.....	.....00.....	0.25	0.25	Sep 1950	15	---	---	---	1/	15.2	---	---

SAN JOAQUIN AND KERN RIVER BASINS AND ADJACENT COASTAL DRAINAGE

71-1	Upper Crystal Springs.	Laguna Cr.....	San Francisco, Calif	13.3	12.0	Oct 1935	57.8	---	2,191	--	0.06	1.41	---	---
71-2	Atascadero Park Lake..	Atascadero Cr.....	Atascadero, Calif...	1.0	1.0	Nov 1947	29	---	150	60 *	0.32	0.48	627	---
71-3	Hawkins.....	N. Fk. Los Vibros Cr.	Hollister, Calif.....	4.04	4.01	May 1940	28	---	136	60 *	0.11	0.15	196	---
71-4	Salinas.....	Salinas R.....	Santa Margarita, Cal	113	112	Nov 1947	5	---	230	40 *	0.10	0.232	202	---
71-5	Copperopolis.....	Penny Cr.....	Copperopolis, Calif.	2.06	2.01	Aug 1945	30	---	129	55	0.026	0.034	40.7	---
71-6	Crane Valley.....	N. Fk. San Joaquin R.	Calif.....	54.5	52.7	Jun 1946	45	---	833	62 *	0.02	0.161	217	---
71-7	Davis.....	Shaw Cr.....	Stockton, Calif.....	7.87	7.62	Sep 1945	28	---	181	63	0.13	0.251	344	---
71-8	Don Pedro.....	Tuolumne R.....	Modesto, Calif.....	1,001	996.5	Nov 1945	22.7	---	289	62 *	0.07	0.210	284	---
71-9	Excheguer.....	Merced R.....	Calif.....	1,027	1,022.4	Mar 1946	19.6	---	281	62	0.06	0.167	226	---
71-10	Gilmore.....	Trib of Mormon Slough	Bellota, Calif.....	5.01	4.92	Aug 1945	28	---	116	50	0.11	0.132	144	---
71-11	Hume.....	Ten Mile Cr.....	Calif.....	24.2	24.1	Jun 1946	37	---	58.3	62 *	0.05	0.030	40.5	---
71-12	La Grange.....	Tuolumne R.....	Calif.....	1,501	1,501 <sup>3</sup> / <sub>4</sub>	Oct 1905	10.1	---	1.6	70 *	5.36	0.083	127	---
71-13	Lyons.....	S. Fk. Stanislaus Cr.	Calif.....	40	39.7	Jun 1946	16	---	138	70 *	0.07	0.101	154	---
71-14	McCarty.....	Trib of Johnny Cr....	Calif.....	0.35	0.32	Sep 1945	7.7	---	275	45 *	0.10	0.3	294	---
71-15	Pardee.....	Mokelumne R.....	Lodi, Calif.....	367 <sup>1</sup> / <sub>2</sub>	363.5	Aug 1943	14	---	543	62 *	0.03	0.152	205	---
71-16	Salt Springs Valley....	Rock Cr.....	Calif.....	20.3	18.4	Jul 1945	63.0	---	637	50 *	0.03	0.201	219	---
71-17	Bear River (Upper)....	Bear R.....	Calif.....	28.5	28.2	Jun 1946	45.8	---	256	70 *	0.007	0.017	26	---

SACRAMENTO, EEL AND RUSSIAN RIVER BASINS

72-1	Ridgewood (Walker)....	Forsythe Cr.....	Ukiah, Calif.....	5.9	5.9	Apr 1949	19	---	53.1	50 *	0.52	0.28	305	---
72-2	Morris.....	James Cr.....	Willits, Calif.....	5.22	5.16	Apr 1949	25	---	139	50 *	0.16	0.22	240	---
72-3	Big Canyon.....	Big Canyon Cr.....	French Town, Calif..	5.50	5.48	Oct 1945	11	---	36.4	44.7	0.19	0.069	67.2	---
72-4	Blodgett.....	Trib of Cosumnes R...	Sacramento, Calif...	3.12	3.05	Oct 1945	5.6	---	82.7	46	0.26	0.217	217	---
72-5	Bullards Bar.....	N. Yuba R.....	Camptonville, Calif.	480	479	Jan 1939	19.2	---	65.6	70 *	0.43	0.284	433	---
72-6	Combie (Van Geisen)...	Bear R.....	Auburn, Calif.....	130	129	Oct 1935	7.3	---	65.7	70 *	1.13	0.749	1,140	---
72-7	East Park.....	Little Stony Cr.....	Stony Ford, Calif...	101.5	98.9	Feb 1946	35.2	---	405	56	0.05	0.189	231	---
72-8	Faulke L. (False L.)..	N. Fk. Jenney Cr.....	Calif.....	0.71	0.68	Dec 1945	94	---	183	54	0.08	0.147	173	---
72-9	Gerber.....	Trib of Burch Cr.....	Corning, Calif.....	0.31	0.28	Dec 1945	28.5	---	613	78.3	0.14	0.971	1,656	---
72-10	Magalia.....	Little Butte Cr.....	Chico, Calif.....	8.23 <sup>1</sup> / <sub>2</sub>	8.08	Jan 1946	28	---	452	48.8	0.07	0.307	326	---
72-11	Stony Gorge.....	Stony Cr.....	Elk Creek, Calif....	193.3	197.2	Mar 1946	17.3	---	245	54	0.08	0.196	231	---
72-12	Misselbeck.....	N. Fk. Cottonwood Cr.	Redding, Calif.....	12.0	11.8	Dec 1945	25.5	---	358	75 *	0.20	0.711	1,161	---

KLAMATH, ROGUE AND UMPQUA RIVER BASINS

73

LOWER COLUMBIA RIVER BASIN AND PACIFIC COAST BASINS IN NORTHERN OREGON

74-1	Condit (White Salmon).	White Salmon R.....	Underwood, Wash....	337	337	May 1936	23	---	3.21	--	0.11	0.004	---	---
74-2	Lake Harriet (Oak Grove).....	Trib of Clackamas R..	Portland, Ore.....	126	126	Aug 1948	24	---	2	--	0.07	0.0013	---	---
74-3	McKay.....	McKay Cr.....	Pendleton, Ore.....	186	184	Jul 1946	19.75	---	396	40	0.02	0.07	61	---
74-4	Cottage Grove.....	Coast Fk. Willamette R	Cottage Grove, Ore..	104	102	Dec 1947	5.1	199,500	317	--	0.075	0.244	--	---

COLUMBIA RIVER BASIN (GRAND COULEE TO UMATILLA) AND PACIFIC COAST DRAINAGE IN WASHINGTON  
Yakima, Chelan and Okanogan River Basins

75-1	Diablo.....	Skagit R.....	Bellingham, Wash....	1,100	1,100	Jul 1936	6	---	81.1	--	0.07	0.054	--	---
------	-------------	---------------	----------------------	-------	-------	----------	---	-----	------	----	------	-------	----	-----

1/ Debris excavated to various times.

2/ Drainage area 0.35 sq. mi. thru 1947, 0.64 sq. mi. after 1947.

3/ Before construction of Don Pedro Reservoir in 1923.

4/ Excluding non-contributing areas above Salt Springs and Bear River Reservoirs.

5/ Excluding 3 sq. mi. above P. G. & E. canal.

\* Estimated or assumed.



**SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950**

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	

COLUMBIA RIVER BASIN (INTERNATIONAL BOUNDARY TO GRAND COHLEE) AND PACIFIC COAST DRAINAGE IN WASHINGTON  
Pendoreille, Spokane, Walla Walla and Lower Snake River Basins

7C

COLUMBIA RIVER BASIN IN CANADA

77

SNAKE RIVER BASIN (FROM KING HILL TO GRANDE RONDE RIVER)

78-1	Orchard.....	Indian Cr.....	Boise, Idaho.....	43	42.8	Jun 1947	55	---	110	--	0.026	0.03	---	---
78-2	Black Canyon.....	Payette R.....	Emmett, Idaho.....	2,750	2,540	Jun 1936	12	---	13.7	--	0.89	0.132	---	---
78-3	Pleasant Valley.....	Black's Cr.....	Boise, Idaho.....	16 *	16 *	Jun 1947	42	---	494	--	0.013	0.063	---	---
78-4	Arrowrock (Boise Proj)	Boise R.....	Boise, Idaho.....	2,211	2,170	Oct 1947	32.64	1,572,509	128.7	73	0.687	0.109	173.3	173.5

SNAKE RIVER BASIN (ABOVE KING HILL) AND SALMON RIVER BASIN

79

\* Estimated or assumed.

RESERVOIR SEDIMENTATION  
DATA

Conchas Reservoir

47-1

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Dept of Army, C of E		2. RIVER Canadian		3. STATE New Mexico			
	4. SEC. Pablo TWP Montoya RANGE Grant		5. NEAREST TOWN Newkirk, N.Mex.		6. COUNTY San Miguel			
	7. STREAM BED ELEV. 1010		8. TOP OF DAM ELEV. 1210		9. SPILLWAY CREST ELEV. 4218			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE-FEET	14. ACCUMULATED ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL	4218	13,715	201,834	601,112	1 Jan 1939		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION	4201	10,073	296,412	399,278	Jan 1939		
	f. INACTIVE	4155	3,520	102,866	102,866			
17. LENGTH OF RESERVOIR Canadian Arm 23 2/3 MILES		AV. WIDTH OF RESERVOIR 4200 Contour, 0.75 MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 7,350 SQ.MI.		22. MEAN ANNUAL PRECIPITATION (38 yrs) 16.8 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 6,950 SQ.MI.		23. MEAN ANNUAL RUNOFF 0.54 3/4 INCHES					
	20. LENGTH 100 MILES AV. WIDTH 73 MILES		24. MEAN ANNUAL RUNOFF (44 yrs) 213,400 AC.-FT.					
	21. MAX. ELEV. 13,000 MIN. ELEV. 4,040		25. CLIMATIC CLASSIFICATION Semi-arid					
SURVEY DATA	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE-FEET	33. C/W RATIO AC.-FT. PER SQ.MI.
	1 Jan 1939			Contour	10 feet	13,715	601,112	82
	May 1940	1.4		Range	14 ranges		599,712	82
	June 1942	2.1	3.4	Range	24 ranges		585,112	80
	Nov 1942	.4	3.8	Range	28 ranges		581,112	79
	Oct 1944	1.9	5.7	Contour	10 feet	13,349	576,756	78
	Feb 1949	4.3	10.1	Contour	10 feet	13,552	566,163	77
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE-FEET			36. WATER INFL. TO DATE AC.-FT.		
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE	
	May 1940	14.26			114,264		114,264	
	June 1942	22.40	652,279	963,370	1,369,786	436,485	1,484,050	
	Nov 1942	12.50			457,288	510,878	1,941,338	
	Oct 1944	14.32			235,603	381,919	2,176,941	
	Feb 1949	13.68	122,942	154,702	528,651	266,536	2,705,592	
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ.MI.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ.MI.-YR.	
	May 1940	1,400			1,400	1,000	.144	
	June 1942	14,600	6,952	1.000	16,000	4,710	.677	
	Nov 1942	4,000			20,000	5,260	.757	
	Oct 1944	4,360	2,290	.330	24,360	4,280	.615	
	Feb 1949	10,600 (11,250)	2,460 (2,610)	.354 (.376)	34,950 (35,600)	3,460 (3,520)	.498 (.506)	
	26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU.FT.	40. SED. DEP. TONS PER SQ.MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM	
			a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TO DATE	a. PERIOD	b. TO DATE
	May 1940	75.7		255	.17	.23	14,863	14,863
	June 1942	75.7	1,648	1,116	.78	2.66	12,930	13,079
	Nov 1942	75.7		1,248	.88	3.33	10,612	12,498
Oct 1944	75.7	544	1,014	.71	4.05	22,429	13,573	
Feb 1949	75.7	584 (620)	821 (834)	.58 (.59)	5.81 (5.92)	24,325 (25,816)	15,671 (15,962)	

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	178-128	128-108	108-88	88-68	68-58	58-48	48-38	38-28	28-17	17-CRST	CRST-12	
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
May 1940												
June 1942												
Nov 1942												
Oct 1944	16	4	7	10	6	10	15	16	16			
Feb 1949	13	4	5	9	5	7	11	14	14	16	2	

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
May 1940	( <del>11</del> ) ( <del>30</del> )	<del>23</del> <del>22</del>	<del>3</del> <del>7</del>	<del>26</del> <del>10</del>	<del>16</del> <del>18</del>	<del>2</del> <del>13</del>	South Canadian Arm Conchas Arm								
June 1942	( <del>6</del> ) ( <del>20</del> )	<del>3</del> <del>21</del>	<del>4</del> <del>12</del>	<del>4</del> <del>12</del>	<del>22</del> <del>13</del>	<del>14</del> <del>27</del>	<del>27</del> <del>5</del>	<del>18</del> <del>14</del>	<del>2</del>	South Canadian Arm Conchas Arm					
Nov 1942	( <del>6</del> ) ( <del>1</del> )	<del>2</del> <del>0</del>	<del>5</del> <del>1</del>	<del>8</del> <del>2</del>	<del>16</del> <del>19</del>	<del>16</del> <del>57</del>	<del>29</del> <del>5</del>	<del>16</del> <del>14</del>	<del>2</del> <del>3</del>	South Canadian Arm Conchas Arm					
Oct 1944															
Feb 1949															

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1939 (9 mo)	4147.00			1945	4197.20	4194.22	97,957
1940	4154.25	4147.05	46,835	1946	4201.13	4192.05	137,573
1941	4206.14	4153.10	993,933	1947	4202.46	4199.00	129,329
1942	4208.41	4197.75	1,147,300	1948	4201.46	4195.63	154,702
1943	4200.19	4197.86	172,956				
1944	4201.71	4194.46	158,836				
(The April 1941 flood filled the conservation pool, which has remained full most of the time since that date with overflows resulting from floods of September 1941, April and September 1942, and October 1947.)							

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
	Acres	Acre-feet		Acres	Acre-feet		Acres	Acre-feet
4230	16,396	746,091	4170	4,917	151,721	4120	1,038	19,094
4218	13,552	566,163	4160	3,774	108,479	4110	676	10,610
4201	9,593	370,185	4150	2,892	75,305	4090	250	1,847
4190	7,666	275,641	4140	2,153	50,150	4073.5	0	0
4180	6,123	206,909	4130	1,532	31,823			

47. Report: Interim Report on Sedimentation in Conchas Reservoir, South Canadian River, New Mexico, September 1943

47. REMARKS AND REFERENCES Average of all samples secured from reservoir area has the following gradation: Fine Medium Coarse Fine Medium Coarse  
MIT Classification Clay Silt Silt Silt Sand Sand Sand  
Percent 23 14 19 21 17 5 1

1/ This area has not been subdivided.  
2/ Conchas Arm, 13.8 miles. In each case, lengths are those along original channel, to intercept at elev. 4230.  
3/ This figure affected by water taken out above reservoir for irrigation.  
4/ Figures in parentheses pertain to deposits above and below spillway crest.

48. AGENCY SUPPLYING DATA Dept. of the Army, Corps of Engineers, Albuquerque District. 49. DATE 11 October 1949



26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

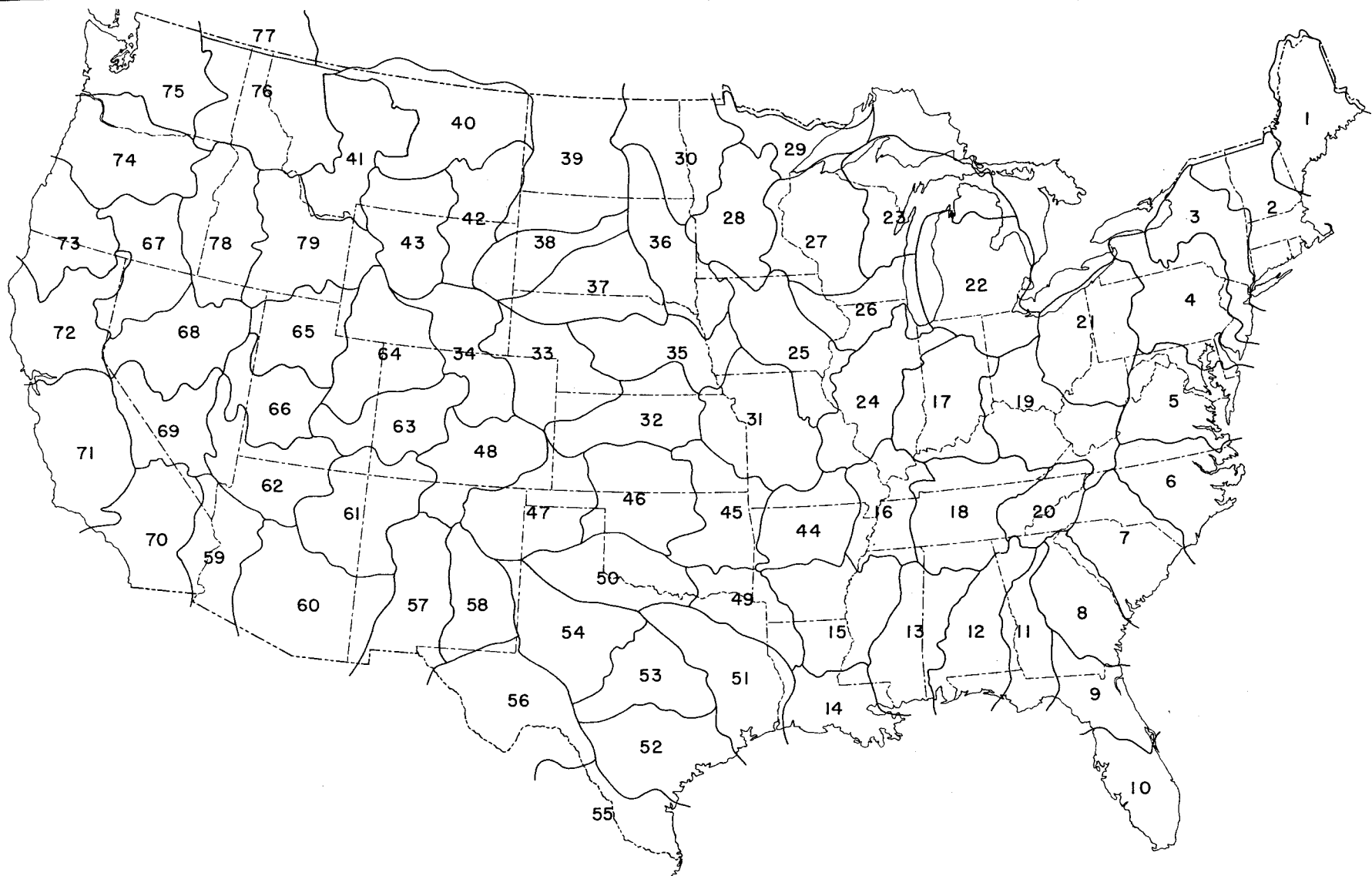
45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES

48. AGENCY SUPPLYING DATA

49. DATE \_\_\_\_\_



*Index number corresponds to first of two numbers  
in summary table, which appear in column headed  
"Data Sheet No."*

**INDEX OF  
RIVER BASIN MAPS**

