PUMPAGE OF WATER

IN

LOUISIANA, 1960

Published by
LOUISIANA DEPARTMENT OF PUBLIC WORKS
and
DEPARTMENT OF CONSERVATION
LOUISIANA GEOLOGICAL SURVEY
Baton Rouge, La.
May 1961

STATE OF LOUISIANA

DEPARTMENT OF PUBLIC WORKS
and
DEPARTMENT OF CONSERVATION
GEOLOGICAL SURVEY

In cooperation with the

UNITED STATES GEOLOGICAL SURVEY

PUMPAGE OF WATER IN LOUISIANA, 1960

By

J. L. Snider
Geologist, U. S. Geological Survey

and

M. J. Forbes, Jr.
Hydraulic Engineer, U. S. Geological Survey

Published by
LOUISIANA DEPARTMENT OF PUBLIC WORKS
and
DEPARTMENT OF CONSERVATION
LOUISIANA GEOLOGICAL SURVEY

Baton Rouge, La.

May 1961

STATE OF LOUISIANA

Jimmie H. Davis, Governor

DEPARTMENT OF PUBLIC WORKS

Claude Kirkpatrick, Director
C. T. Watts, Assistant Director
Hu B. Myers, Chief Engineer
C. K. Oakes, Hydraulic Engineer

DEPARTMENT OF CONSERVATION

James H. Gill, Commissioner
Thomas M. Winfiele, Chief Engineer

LOUISIANA GEOLOGICAL SURVEY

Leo W. Hough, State Geologist
Clarence O. Durham, Director of Research

Cooperative projects with

UNITED STATES GEOLOGICAL SURVEY

T. B. Nolan, Director
L. B. Leopold, Chief Hydraulic Engineer
P. E. LaMoreaux, Chief, Ground Water Branch
E. L. Hendricks, Chief, Surface Water Branch
R. R. Meyer, District Geologist
F. N. Hansen, District Engineer

CONTENTS

Page

Introduction---------- 1

ILLUSTRATION

Figure 1. Map of Louisiana showing location of parishes-------- 2

TABLE

Table 1. Withdrawals of water, in million gallons a day, by parish, in Louisiana, 1960---------- 4

PUMPAGE OF WATER IN LOUISIANA, 1960

By

J. L. Snider and M. J. Forbes, Jr.

INTRODUCTION

This report is intended to make available to the public basic water-use data that may be used to supplement other information when planning for the development of the water resources of Louisiana. The data were collected during the period July-December 1960 as a part of the statewide cooperative water resources study made by the U.S. Geological Survey, Louisiana Department of Public Works, Louisiana Geological Survey, Department of Conservation, and Louisiana Department of Highways.

Some pumpage figures were obtained from the Louisiana Board of Health and the Stream Control Commission, Louisiana Department of Wild Life and Fisheries. Thanks also are due the officials of all public supplies and industries, State and Federal officials, and the farmers in the State of Louisiana who made available data on water use.

The pumpage data have been assembled by parish, by principal use, and source of water. The location of the 64 parishes are shown on the map of Louisiana (fig. 1). The four major uses are public supply, rural, industrial and irrigation. Public-supply pumpage includes that used by municipalities, State and Federal institutions, and some military bases. Rural has

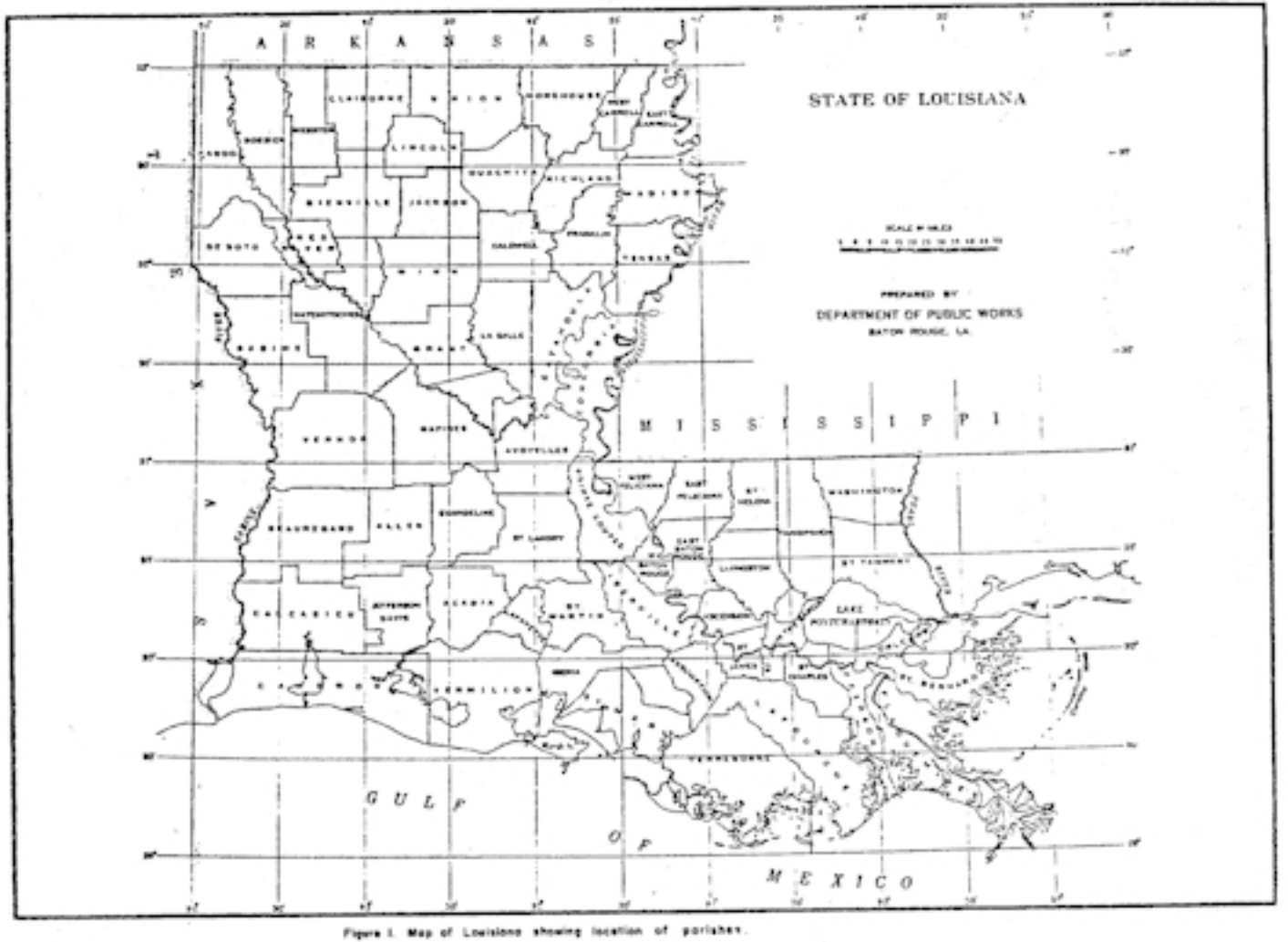

Figure 1. Map of Louisiana showing location of parishes.

been delineated into subuses, domestic and stock. Irrigation also has been delineated into two subuses, rice and other crops.

The total quantity of ground water pumped for all purposes is considered to be removed permanently from the aquifers as the water is discharged into streams. However, recharge to the aquifers generally is from precipitation in the highland areas. The quantity of ground water, which is not used for a specific purpose but is allowed to go to waste, is not included in this report. Most of the surface water pumped is not consumed but is returned to the streams.

TABLE 1. PUMPAGE OF WATER IN MILLION GALLONS A DAY, BY PRINCIPAL USE AND PARISH, LOUISIANA, 1960

PARISH	PUBLIC SUPPLIES		INDUSTRIAL		RURAL				IRRIGATION				TOTAL	
					Domestic		Livestock		Rice		Other Crops			
	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface
Acadia	2.64	0	2.14	0.08	1.84	0	0.54	0.23	114.90	115.30	0.40	0.32	122.46	115.93
Allen	0.97	0	13.32	.01	0.58	0	.22	.22	42.53	61.24	0	0	57.62	61.47
Ascension	.30	1.26	1.12	2.00	.54	0	.24	.01	0	0	.04	.06	2.24	3.33
Assumption	0	0.48	1.93	0	.16	0.32	.03	.02	0	0	0	0	2.12	.82
Avoyelles	1.26	0	0.14	0	.61	0	.48	.32	1.50	1.62	0	0	3.99	1.94
Beauregard	1.15	0	4.60	0	.72	0	.25	.25	101.70	146.50	0	0	108.42	146.75
Bienville	.34	0	.86	.55	.35	0	.08	.19	0	0	0	0	1.63	.74
Bossier	.24	3.50	.15	.06	.38	0	.15	.35	0	0	.03	.10	.95	4.01
Caddo	.57	18.10	.05	340.20	1.74	0	.20	.48	0	0	.08	.25	2.64	359.03
Caldwell	.25	0	.10	0	1.75	0	.07	.15	0	0	0	0	2.17	.15
Calcasieu	11.03	0	81.30	749.17	1.43	0	.53	.23	52.03	74.92	0	0	146.32	824.17
Cameron	.35	0	6.68	13.20	.58	0	.45	.04	9.00	13.00	0	0	17.06	26.24
Catahoula	.26	0	.11	0	.26	0	.12	.27	0	0	.08	.25	.83	.52
Claiborne	.72	0	1.84	0	.30	0	.10	.26	0	0	0	0	2.96	.26
Concordia	.66	0	.13	.43	.16	0	.09	.27	0	0	0	0	1.04	.70
De Soto	.70	0	.06	0	.50	0	.20	.50	0	0	0	0	1.46	.50
East Baton Rouge	19.70	0	75.25	374.18	1.45	0	.02	.48	0	0	0	0	96.42	374.66
East Carroll	.30	0	.08	0	.26	0	.23	.03	7.50	8.10	.22	.32	8.59	8.45
East Feliciana	.20	0	.84	2.60	.25	0	.38	.02	0	0	0	0	1.67	2.62
Evangeline	1.07	0	10.60	61.70	1.65	0	.30	.29	95.90	138.00	.10	.08	109.62	200.07

Franklin	.48	0	.07	0	.59	0	.18	.54	0	0	1.80	5.80	3.12	6.34
Grant	.17	3.40	.15	3.10	.32	0	.04	.19	0	0	0	0	.68	6.69
Iberia	3.37	0	4.30	5.50	1.28	0	.26	.07	0	0	0	0	9.21	5.57
Iberville	1.00	0	5.82	291.00	.31	.13	.21	.05	0	0	0	0	7.34	291.18
Jackson	.61	0	10.53	.01	.27	0	.02	.10	0	0	0	0	11.43	.11
Jefferson	0	13.90	9.06	351.50	.10	0	.08	.05	0	0	0	0	9.24	365.45
Jefferson Davis	1.83	0	5.31	.07	.79	0	.47	.20	81.30	117.00	.80	.64	90.50	117.91
Lafayette	5.22	0	.64	0	2.24	0	.44	.14	16.50	17.80	0	0	25.04	17.94
Lafourche	0	3.32	.17	4.00	.08	.76	.04	.18	0	0	0	0	.29	8.26
La Salle	.66	0	.69	1.90	.18	0	.03	.13	0	0	0	0	1.56	2.03
Lincoln	1.54	0	1.20	0	.30	0	.06	.15	0	0	0	0	3.10	.15
Livingston	.82	0	.28	3.00	.55	0	.02	.34	0	0	.76	1.10	2.43	4.44
Madison	.52	0	1.12	0	.20	0	.30	.05	0.52	0.56	.04	.06	2.70	.67
Morehouse	1.28	0	19.83	36.00	.40	0	.10	.29	12.58	1.40	.76	2.43	34.95	40.12
Natchitoches	1.00	0	.35	0	.60	0	.40	.30	0	0	.10	.30	2.45	.60
Orleans	0	107.50	32.02	346.50	.15	0	.01	.01	0	0	0	0	32.18	454.01
Ouachita	1.49	6.48	14.80	379.99	.75	0	.16	.11	0	0	0	0	17.20	386.58
Plaquemines	0	.08	.04	46.30	0	0	0	.06	0	0	0	0	.04	46.44
Pointe Coupee	.80	0	1.01	0	.52	0	.03	.55	0	0	0	0	2.36	.55
Rapides	6.43	0	.60	7.20	.80	0	.50	.40	0	0	.07	.22	8.40	7.82
Red River	.17	0	.02	.50	.24	0	.20	.10	0	0	0	0	.63	.60
Richland	.53	.17	.68	0	.41	0	.29	.19	.94	.10	.40	1.30	3.25	1.76
Sabine	.40	0	.10	0	.35	0	.10	.20	0	0	0	0	.95	.20
St. Bernard	0	4.00	2.16	448.80	0	0	0	.02	0	0	.01	.01	2.17	452.83
St. Charles	0	.04	19.48	62.40	.03	0	.05	.05	0	0	0	0	19.56	62.49

PARISH	PUBLIC SUPPLIES		INDUSTRIAL		RURAL				IRRIGATION				TOTAL	
					Domestic		Livestock		Rice		Other Crops			
	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface
St. Helena	0.07	0	0.05	0.50	0.25	0	0.02	0.48	0	0	0	0	0.39	0.98
St. James	0	.11	5.41	42.40	.06	0	.07	0	0	0	.01	.01	5.55	42.52
St. John Baptist	.10	1.55	.18	15.70	.06	.44	.02	.02	0	0	0	0	.36	17.71
St. Landry	4.23	0	1.42	0	3.72	0	.95	.24	29.62	32.00	0	0	39.94	32.24
St. Martin	.68	0	2.76	0	1.68	0	.27	.07	0	0	0	0	5.39	.07
St. Mary	.07	5.85	.95	72.23	1.74	0	.04	.04	0	0	0	0	2.80	78.22
St. Tammany	1.48	0	2.96	.60	.93	0	.02	.33	0	0	.83	1.20	6.22	2.13
Tangipahoa	3.06	0	1.08	7.90	1.06	0	.07	1.31	0	0	2.32	3.34	7.59	12.55
Tensas	.32	0	.06	0	.23	0	.30	.08	0	0	.02	.03	.93	.11
Terrebonne	0	4.50	.50	0	0	0	.02	.15	0	0	0	0	.52	4.65
Union	.46	0	.08	0	.34	0	.08	.23	0	0	0	0	.96	.23
Vermilion	2.52	0	8.84	0	1.32	0	.90	.09	18.75	27.00	.16	.13	32.49	27.22
Vernon	.60	0	.30	0	.40	0	.10	.30	0	0	0	0	1.40	.30
Washington	4.40	0	8.26	3.60	.45	0	.04	.82	0	0	.06	.06	13.21	4.48
Webster	2.36	0	7.39	30.20	.40	0	.03	.24	0	0	0	0	10.18	30.44
West Baton Rouge	.33	0	2.00	0	.30	0	.01	.11	0	0	0	0	2.64	.11
West Carroll	.16	0	.06	0	.36	0	.24	.06	0	0	.07	.22	.89	.28
West Feliciana	.09	0	7.01	0	.14	0	.02	.30	0	0	0	0	7.26	.30
Winn	1.04	0	.22	0	.24	0	.04	.14	0	0	0	0	1.54	.14
TOTAL	93.00	174.24	381.26	3,705.18	40.65	1.65	11.91	14.09	585.27	754.54	9.16	18.23	1,121.25	4,667.93

PUMPAGE OF WATER IN LOUISIANA, 1960

ERRATA

FP36202 25c 9-61

Page	PARISH	IRRIGATION		TOTAL	
		Rice			
		Ground	Surface	Ground	Surface
4	Beauregard	10.17	.50	16.89	.75
4	Evangeline		2.77		64.84
6	TOTAL	493.74	473.31	1,029.72	4,386.70