

**SUMMARY OF REPORTED WATER USE  
FOR ARKANSAS COUNTIES, 1989**

By Nancy T. Baker and Carolyn A. Manning

---

**U.S. GEOLOGICAL SURVEY**

Open-File Report 91-203



Prepared in cooperation with the

**ARKANSAS SOIL AND WATER CONSERVATION COMMISSION**

Little Rock, Arkansas

1991

U.S. DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

---

For additional information  
write to:

District Chief  
U.S. Geological Survey  
2301 Federal Office Bldg.  
700 West Capitol  
Little Rock, Arkansas 72201

Copies of this report can be  
purchased from:

U.S. Geological Survey  
Books and Open-File Reports  
Federal Center, Bldg. 810  
Box 25425  
Denver, Colorado 80225

## CONTENTS

	<i>Page</i>
ABSTRACT .....	1
INTRODUCTION .....	1
SUMMARY OF REPORTED WATER USE .....	2

## ILLUSTRATIONS

Figure 1. Map showing location of local Soil Conservation Districts in Arkansas .....	3
2. Diagram showing reported ground- and surface-water withdrawals by water-use category for Arkansas counties, 1989.....	4
3. Map showing distribution of total reported water withdrawals for Arkansas counties, 1989.....	5
4. Map showing reported surface- and ground-water withdrawal points in Arkansas, 1989.....	6

## TABLES

Table 1. Reported water withdrawals in Arkansas counties for 1989.....	7
2. Water application statistics for crops and livestock for Arkansas counties, 1989 .....	9
3. Number of withdrawal registrations for Arkansas counties .....	19

## CONVERSION FACTORS

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
acre	4,047	square meter (m <sup>2</sup> )
acre-foot (acre-ft)	1,233	cubic meter (m <sup>3</sup> )
foot (ft)	0.3048	meter (m)
inch (in.)	25.4	millimeter (mm)
million gallons per day (Mgal/d)	3,785	cubic meter per day (m <sup>3</sup> /d)

# **SUMMARY OF REPORTED WATER USE**

## **FOR ARKANSAS COUNTIES, 1989**

By Nancy T. Baker and Carolyn A. Manning

### **ABSTRACT**

This report provides an aggregation and summarization of the water withdrawal information reported to the Arkansas Soil and Water Conservation Commission for 1989. Reported water withdrawals for 1989 were 4,120 million gallons per day for ground water and 2,286 million gallons per day for surface water. The largest withdrawals occur in the agricultural region of the Mississippi River Alluvial Plain. This report also provides water application statistics for livestock and irrigated crops.

### **INTRODUCTION**

This report provides an aggregation and summarization of the water withdrawal information reported to the Arkansas Soil and Water Conservation Commission (ASWCC) for 1989. The ASWCC has been collecting site-specific ground- and surface-water withdrawal information since 1985. Act 81, 1957, as amended, requires all diverters of water from streams, lakes or ponds to register their diversion of surface water by quantity, location, type of use and name of user on an annual basis with the ASWCC. Act 1051 of 1985, requires all users of ground water excluding domestic use to register their withdrawal of ground water on an annual basis with the ASWCC. Local Soil Conservation Districts (located in each county) (fig. 1) collect reported water-use data for agriculture (irrigated and non-irrigated) water users. Water withdrawal registration forms are mailed separately to public supply, commercial, industrial, mining, and energy water users. The U.S. Geological Survey works in cooperation with the ASWCC in the collection, processing, and storage of water-use data.

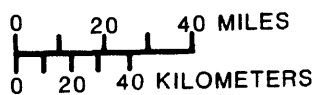
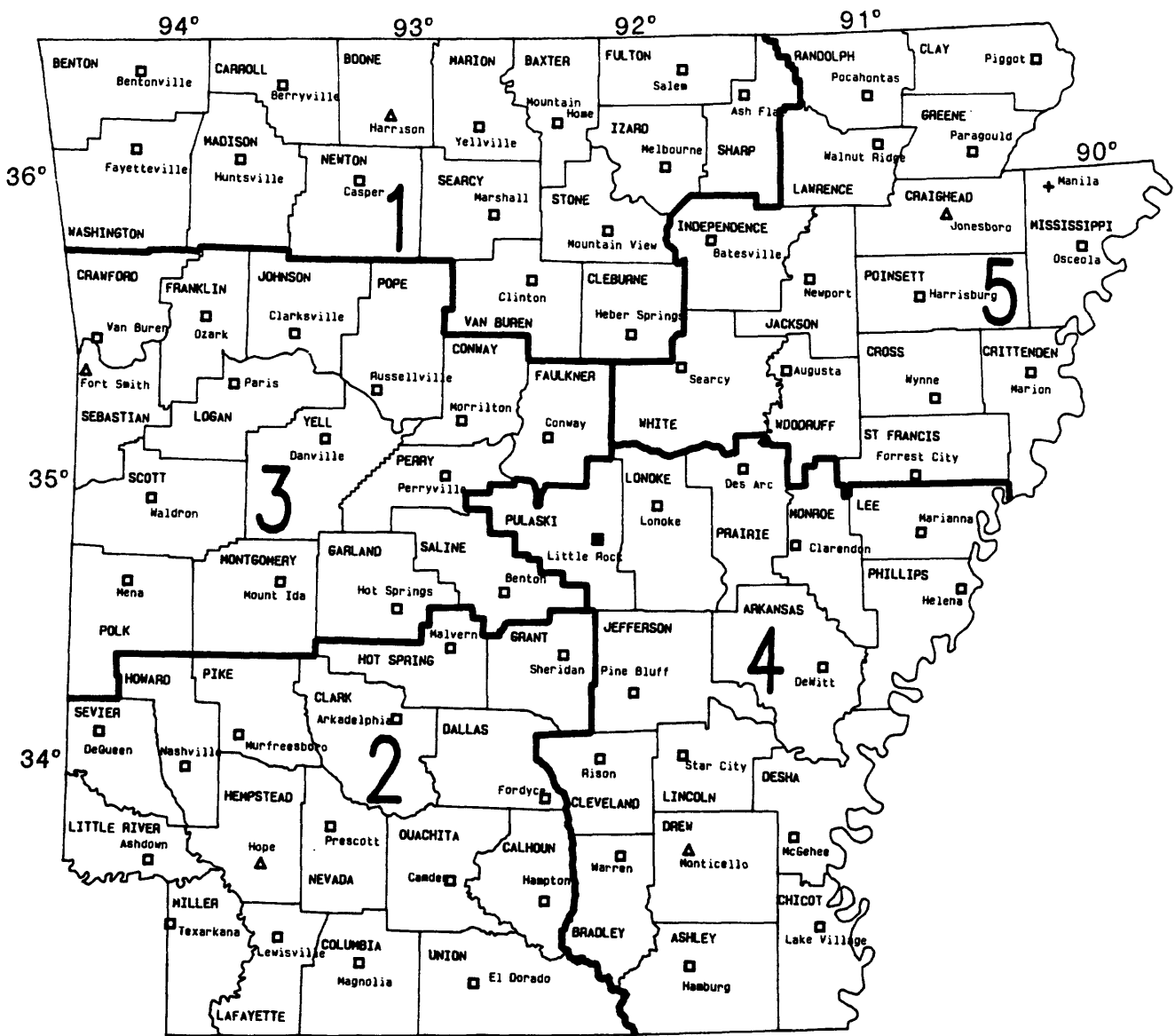
## SUMMARY OF REPORTED WATER USE

Reported water withdrawals for 1989 were 4,120 Mgal/d for ground water and 2,286 Mgal/d for surface water (fig. 2 and table 1). Irrigation of crops (irrigated agriculture in table 1) account for 88 percent of total ground-water withdrawals and 37 percent of surface-water withdrawals in Arkansas. Livestock accounts for about 4 percent of ground-water withdrawals and 6 percent of surface-water withdrawals (fig. 2 and table 1). Livestock (non-irrigated agriculture in table 1) includes beef and dairy cattle, broilers, hogs, animal feedlots, and animal aquaculture. Water used for the production of energy accounts for 43 percent of surface-water withdrawals, public supply accounts for 2 percent of ground-water withdrawals and 10 percent of surface-water withdrawals, and other water uses (commercial, industrial, and mining) account for 6 percent of ground-water withdrawals and 4 percent of surface-water withdrawals (fig. 2).

Water application statistics for crops and livestock are given in table 2. In table 2, animal aquaculture is the general category for catfish, goldfish, and minnows. If those users reporting water use for the production of fish did not report water applied to a particular type of fish, the reported use was lumped into animal aquaculture.

The geographic distribution of reported water withdrawals are shown graphically in figure 3, and in tabular form in table 1. The largest withdrawals occur in the agricultural region of the Mississippi River Alluvial Plain. Large withdrawals also occur in Pope County, as a result of cooling for the nuclear power plant in that county, and in Garland County for the processing of wood and paper products.

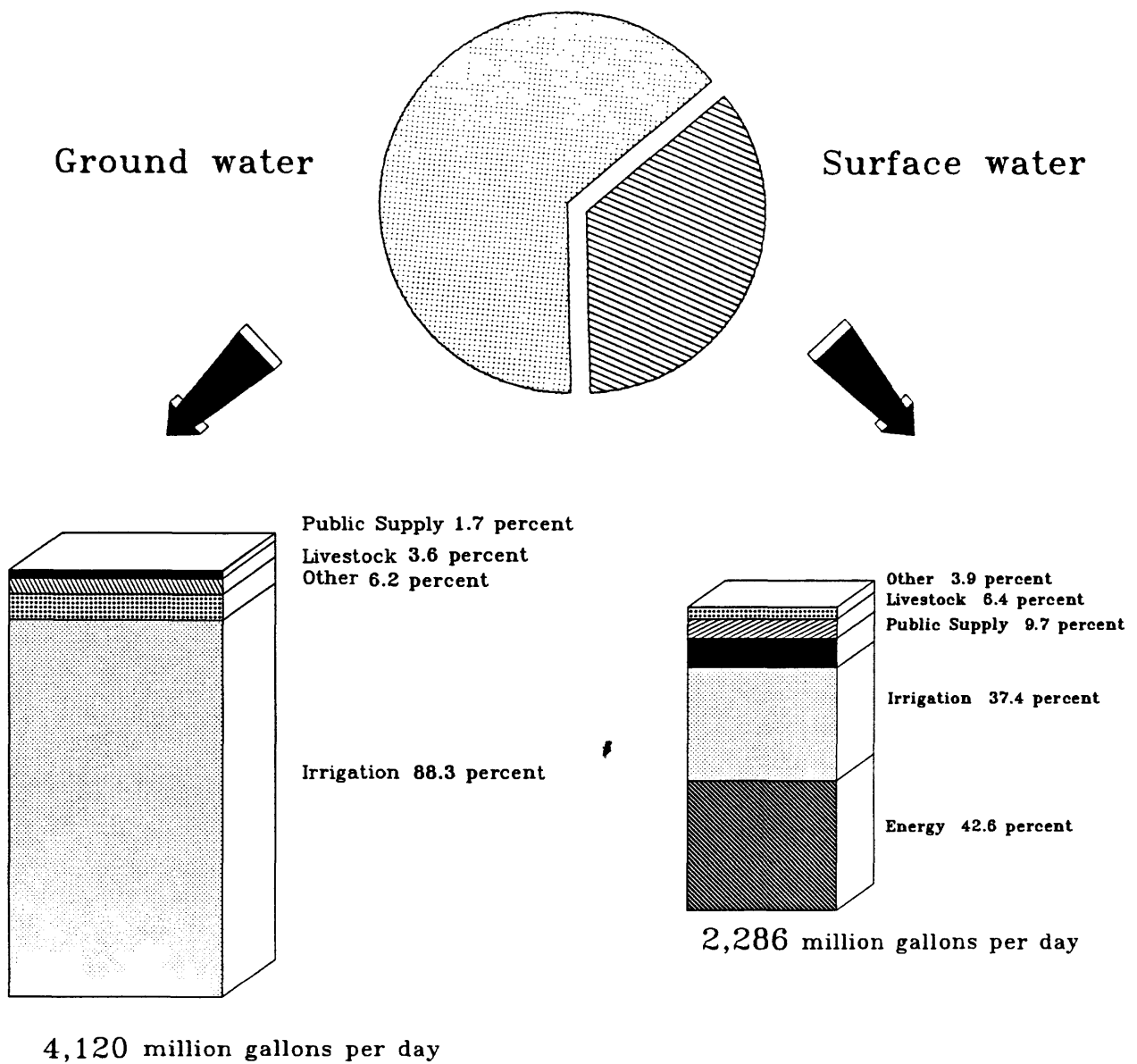
Approximately 37,770 wells and 6,640 surface water intakes have been registered in Arkansas. The geographic distribution of withdrawal points is shown in figure 4. A breakdown of the number of withdrawal registrations by county is given in table 3.



**EXPLANATION**

- FIELD OFFICE
- + SUBFIELD OFFICE
- △ AREA OFFICE
- STATE OFFICE
- AREA BOUNDARY

Figure 1.--Location of local Soil Conservation Districts in Arkansas.



**Figure 2.--Reported ground- and surface-water withdrawals by water-use category for Arkansas counties, 1989. (Other includes commercial, industrial, and mining water use; Livestock is non-irrigated agriculture; and irrigation is irrigated agriculture.)**



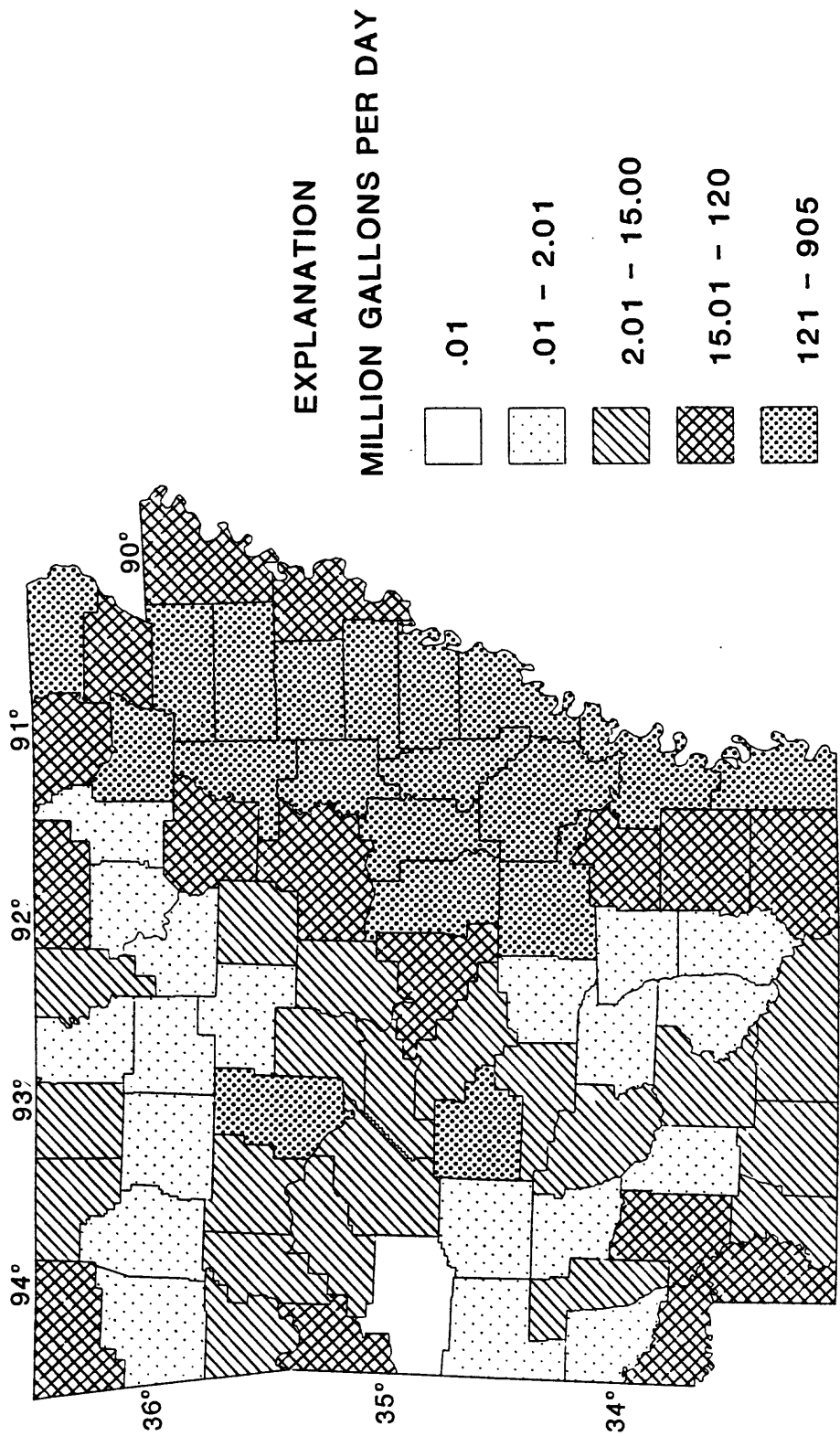
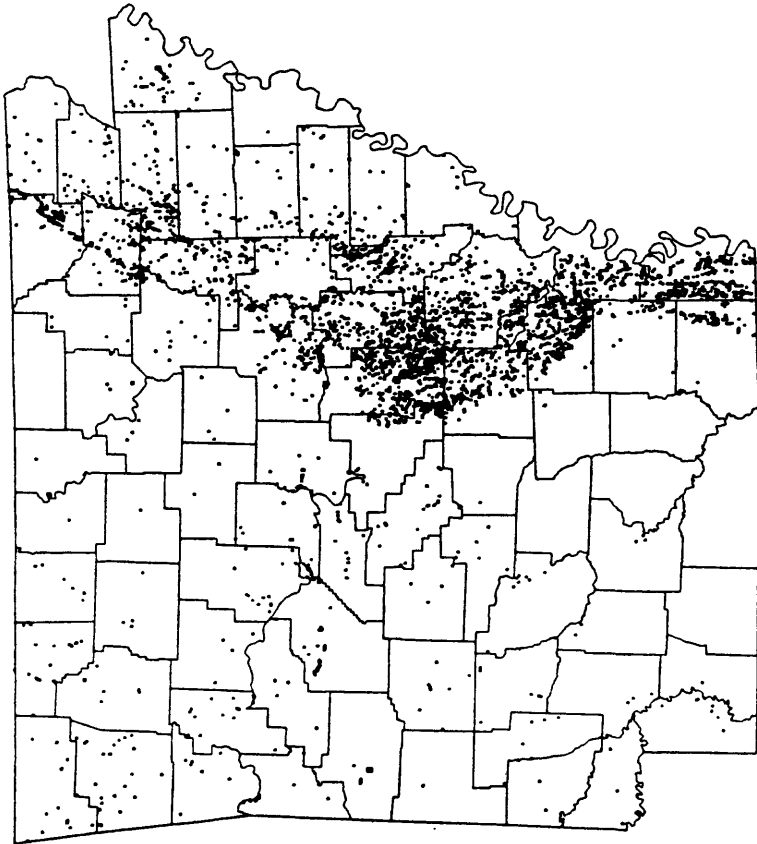
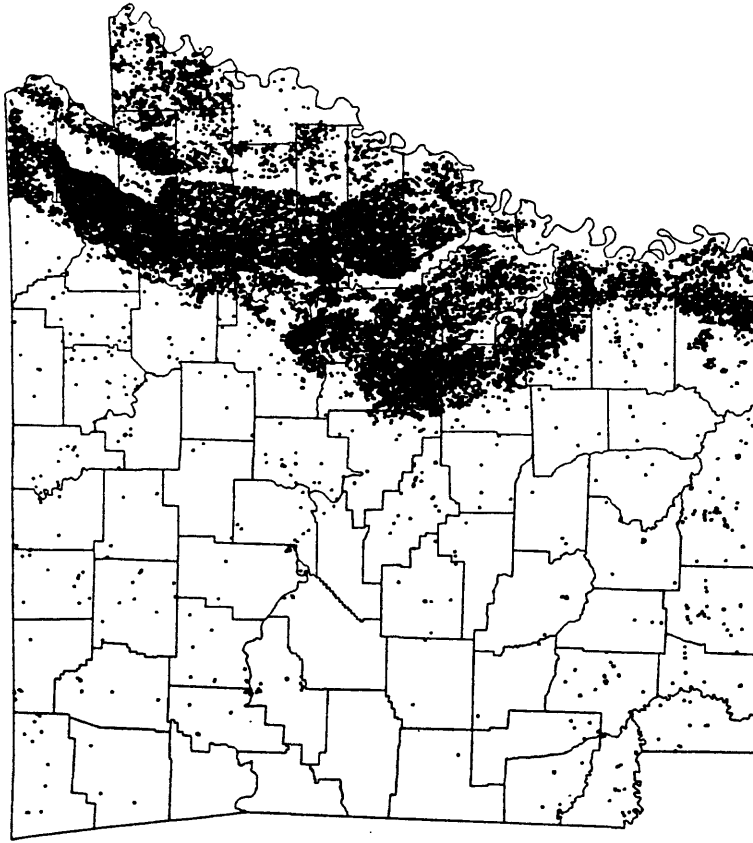


Figure 3.--Distribution of total reported water withdrawals for Arkansas counties, 1989.



**SURFACE WATER WITHDRAWAL  
POINTS**



**GROUND WATER WITHDRAWAL  
POINTS**

**Figure 4.--Reported surface- and ground-water withdrawal points in Arkansas.**

Table 1.--Reported water withdrawals in Arkansas counties for 1989

[In million gallons per day; does not include water use for hydroelectric power generation; ---, no data available]

County	Public supply			Commercial			Industrial			Mining			Agriculture (non-irrigated)			Agriculture (irrigated)			Thermoelectric energy			County totals					
	Ground water	Surface water	Total	Ground water	Surface water	Total	Ground water	Surface water	Total	Ground water	Surface water	Total	Ground water	Surface water	Total	Ground water	Surface water	Total	Ground water	Surface water	Total	Ground water	Surface water	Total			
Arkansas	3.47	---	---	0.44	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Ashley	1.28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Baxter	.37	2.39	---	---	5.06	32.88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benton	.59	30.59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Boone	.39	1.80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bradley	.87	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Calhoun	1.43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carroll	.49	4.48	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chicot	1.11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Clark	.78	1.79	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Clay	1.18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cleburne	.02	1.63	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cleveland	.26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Columbia	.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Conway	.06	.02	---	---	0.03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Craighead	8.14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Crawford	---	1.40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Crittenden	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cross	2.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dallas	.82	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Desha	.97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Drew	2.66	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Faulkner	.53	4.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Franklin	---	1.55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fulton	.34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Garland	.06	1.11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Grant	.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Greene	2.59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Hempstead	1.63	.77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Hot Spring	---	.42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Howard	.12	2.13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Independence	.99	3.71	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Izard	.24	.23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Jackson	1.24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Jefferson	2.82	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Johnson	---	2.51	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lafayette	.37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lawrence	1.17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lee	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lincoln	.36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

[Application rate: Avg, average; Min, minimum; Max, maximum; Std. dev., standard deviation; Acre-ft, acre-feet; ---, cannot be calculated]

County	Number of reports	Sum of acres	Application rate (acre-ft)					Total-water withdrawals (acre-ft)		
			Avg	Min	25th percentile	50th percentile	75th percentile		Max	Variance
Animal Aquaculture										
Arkansas	4	38.00	5.25	5.00	5.00	5.00	6.00	27.81	5.27	200.00
Ashley	5	350.00	2.40	2.00	2.00	3.00	3.00	6.06	2.46	840.00
Chicot	19	532.20	4.12	.50	5.00	5.00	6.00	20.86	4.57	1,884.99
Clay	5	140.00	3.27	.50	3.00	4.00	8.84	21.68	4.66	319.20
Craighead	4	48.50	2.75	.50	2.25	5.00	6.00	14.98	3.87	143.00
Crittenden	4	180.00	2.25	1.00	1.00	3.00	6.00	11.31	3.36	280.00
Cross	11	218.00	2.77	1.00	1.00	3.00	6.00	10.36	3.22	526.00
Desha	16	2,092.00	4.47	2.00	4.00	5.00	7.00	21.69	4.66	7,871.50
Greene	4	45.00	3.00	.00	1.00	5.00	10.00	31.00	5.57	7,312.00
Jackson	10	331.00	4.00	4.00	4.00	4.00	4.00	16.00	4.00	1,324.00
Jefferson	1	40.00	4.00	---	---	---	4.00	---	---	160.00
Lawrence	1	2.00	4.00	---	---	---	4.00	---	---	8.00
Lee	4	35.00	3.50	1.00	2.50	6.00	8.00	23.25	4.82	135.00
Lincoln	4	82.00	4.17	3.00	4.00	5.00	5.70	19.35	4.40	355.80
Lonoke	61	2,622.00	3.93	.00	4.00	4.00	6.00	15.81	3.98	10,398.00
Miller	1	10.00	3.00	---	---	---	3.00	---	---	30.00
Monroe	12	216.00	6.13	4.00	5.00	8.00	8.00	40.07	6.33	1,239.00
Poinsett	41	898.50	10.55	2.00	5.00	6.00	40.00	232.55	15.25	10,797.25
Prairie	22	410.50	5.51	1.50	2.50	6.50	24.66	55.46	7.45	1,942.72
White	10	126.10	4.22	1.00	1.50	3.75	8.00	24.68	4.97	529.00
Woodruff	8	105.50	4.54	.34	2.00	3.50	12.00	33.64	5.80	674.53
Beef Cattle										
Arkansas	1	700.00	1.00	1.00	---	---	1.00	---	---	700.00
Benton	1	1.00	4.00	---	---	---	4.00	---	---	4.00
Berries										
Benton	1	2.50	2.55	---	---	---	2.55	---	---	6.38
Cleveland	1	1.00	1.00	---	---	---	1.00	---	---	1.00
Faulkner	1	8.00	.63	---	---	---	.63	---	---	5.00
Franklin	2	85.00	1.90	1.80	1.90	2.00	3.63	1.91	1.91	157.00
Johnson	2	41.00	1.50	1.00	1.50	2.00	2.75	1.66	1.66	50.00
Lee	1	1.00	.50	---	---	---	.50	---	---	.50
Lonoke	1	4.00	.25	---	---	---	.25	---	---	1.00
Mississippi	1	15.00	1.00	---	---	---	1.00	---	---	15.00
Newton	1	7.00	.86	---	---	---	.86	---	---	6.02
Phillips	1	9.00	1.00	---	---	---	1.00	---	---	9.00
Washington	1	23.00	.43	---	---	---	.43	---	---	9.89
White	1	50.00	2.00	---	---	---	2.00	---	---	100.00
Woodruff	2	30.00	.28	---	.28	---	.32	.08	.29	8.00

Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

County	Number of reports	Sum of acres	Application rate (acre-ft) percentile					Max	Variance	Std. dev.	Total-water withdrawals (acre-ft)
			Avg	Min	25th	50th	75th				
Broilers, Chicken											
Benton	1	1.00	72.00	72.00	---	---	72.00	---	---	72.00	
Catfish											
Desha	1	10.00	5.00	5.00	---	---	5.00	---	---	50.00	
Corn											
Arkansas	92	5,418.00	1.64	.50	1.00	2.00	2.00	3.00	3.20	1.79	8,613.50
Chicot	8	519.00	1.20	.08	.25	1.25	2.00	2.00	2.06	1.44	7,409.35
Clay	117	6,491.90	1.10	.80	1.00	1.00	1.00	1.50	1.26	1.12	7,257.15
Craighead	34	1,752.90	.95	.40	1.00	1.00	1.00	1.00	.93	.96	1,638.90
Crittenden	6	840.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	840.00
Cross	8	270.00	.81	.50	.50	1.00	1.00	1.00	.73	.85	237.00
Desha	18	768.00	1.58	1.50	1.50	1.50	1.50	3.00	2.63	1.62	1,260.00
Drew	1	60.00	1.00	1.00	---	---	---	1.00	---	---	60.00
Faulkner	1	100.00	1.50	1.50	---	---	---	1.50	---	---	150.00
Greene	19	1,079.00	.51	.10	.40	.40	.60	1.00	.34	.59	468.30
Jackson	26	1,475.00	1.34	.50	1.00	1.00	1.50	3.00	2.12	1.45	2,100.36
Jefferson	34	2,470.70	2.00	2.00	2.00	2.00	2.00	2.00	4.00	2.00	4,941.40
Lafayette	5	385.00	.16	.16	.16	.16	.16	.16	.03	.16	61.60
Lee	3	392.00	.61	.33	---	.50	---	1.00	.49	.70	143.10
Lincoln	5	379.00	.50	.20	.20	.70	.70	.70	.32	.57	126.80
Lonoke	28	1,413.00	.40	.00	.33	.33	.33	1.00	.18	.42	552.59
Miller	2	66.00	.58	.16	---	.58	---	1.00	.69	.83	48.36
Mississippi	15	1,757.00	.59	.20	.40	.50	.80	1.00	.42	.65	1,084.90
Monroe	1	55.00	1.00	1.00	---	---	---	1.00	---	---	55.00
Phillips	2	158.00	1.00	1.00	---	---	---	1.00	1.00	1.00	158.00
Poinsett	27	1,378.00	.93	.50	1.00	1.00	1.00	2.00	.95	.97	1,239.50
Prairie	62	2,200.00	.58	.00	.00	.00	.50	2.50	.45	.67	1,586.95
Pulaski	2	23.00	.66	.33	---	.66	---	1.00	.67	.82	9.60
Randolph	8	465.00	1.50	1.50	1.50	1.50	1.50	1.50	2.25	1.50	697.50
St. Francis	1	70.00	3.12	3.12	---	---	---	3.12	---	---	218.40
White	4	416.00	.81	.25	.25	1.00	1.00	1.00	.80	.89	299.00
Woodruff	50	3,057.00	.56	.00	.00	.32	.50	1.50	.44	.67	1,510.87
Yell	2	137.00	.10	.10	---	.10	---	.10	.01	.10	13.70

Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

County	Number of reports	Sum of acres	Application rate (acre-ft)					Max	Variance	Std. dev.	Total-water withdrawals (acre-ft)
			Avg	Min	25th	50th	75th percentile				
Cotton											
Ashley	492	40,047.40	0.64	0.00	0.00	0.00	2.00	0.48	0.70	26,210.39	
Calhoun	7	390.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	390.00	
Chicot	222	19,271.20	.60	.00	.00	.50	6.25	.61	.78	12,779.85	
Clay	43	2,205.00	.95	.40	1.00	1.00	1.50	.94	.97	2,174.10	
Craighead	170	11,139.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	11,139.00	
Crittenden	29	2,379.30	.94	.00	.53	1.00	3.00	1.13	1.06	2,023.21	
Cross	4	221.00	1.17	.67	.67	1.25	1.50	1.53	1.24	204.45	
Desha	531	35,053.19	1.51	.28	1.00	1.00	3.00	2.38	1.54	50,166.82	
Drew	71	4,476.00	.93	.00	.60	1.00	2.00	1.06	1.03	3,985.60	
Greene	19	1,010.00	.62	.10	.30	.80	1.00	.49	.70	665.60	
Jackson	4	127.00	.67	.20	.20	.75	1.00	.61	.78	86.50	
Jefferson	454	39,582.29	1.00	1.00	1.00	1.00	2.00	1.01	1.00	39,642.29	
Lafayette	17	1,699.00	.29	.10	.16	.50	.50	.11	.34	471.04	
Lee	68	5,694.00	.81	.00	.33	1.00	1.00	.73	.86	4,251.16	
Lincoln	280	18,508.00	.70	.00	.00	.70	1.40	.74	.74	12,365.31	
Lonoke	304	16,201.00	.62	.00	.00	.33	1.33	.46	.68	10,248.61	
Miller	2	710.00	.54	.34	---	.54	.75	.38	.62	322.89	
Mississippi	167	18,440.00	.63	.00	.00	.50	3.00	.52	.72	12,028.51	
Monroe	186	12,164.50	1.49	1.00	1.00	1.00	1.50	2.22	1.49	18,079.25	
Phillips	174	16,165.00	1.10	1.00	1.00	1.00	1.10	1.21	1.10	17,779.57	
Poinsett	110	8,737.00	1.21	1.00	1.00	1.50	3.50	1.95	1.40	12,160.90	
Prairie	4	285.00	.41	.32	.32	.32	.67	.20	.44	119.20	
Pulaski	13	559.00	.74	.32	.75	.75	1.00	.56	.75	405.25	
St. Francis	34	2,686.50	1.16	1.00	1.00	1.17	1.17	1.36	1.17	3,130.28	
Woodruff	25	1,130.00	.36	.00	.17	.32	1.00	.17	.41	356.55	
Ducks (Recreational)											
Arkansas	61	7,984.00	2.43	1.00	2.00	3.00	6.00	6.89	2.62	20,205.00	
Chicot	1	50.00	1.00	1.00	---	---	1.00	---	---	50.00	
Craighead	5	348.00	.90	.50	.50	1.00	1.00	.86	.93	333.00	
Cross	4	380.00	1.00	.50	.50	1.00	2.00	1.50	1.22	315.00	
Desha	3	421.00	1.50	1.00	---	---	2.00	2.50	1.58	692.00	
Greene	1	40.00	.33	.33	---	---	.33	---	---	13.20	
Jackson	5	1,380.00	1.80	1.00	1.00	2.00	2.00	3.44	1.85	1,960.00	
Lincoln	1	75.00	.50	.50	---	---	.50	---	---	37.50	
Lonoke	22	4,820.00	.95	.50	.50	1.00	2.00	1.15	1.07	4,610.00	
Miller	2	360.00	4.00	3.00	---	---	5.00	18.00	4.24	1,680.00	
Monroe	20	2,165.00	6.47	.50	1.50	12.00	69.17	8.32	8.32	13,497.50	
Poinsett	6	970.00	2.00	.00	.00	1.50	5.00	9.20	3.03	3,820.00	
Prairie	1	600.00	1.50	1.50	---	---	1.50	---	---	900.00	
St. Francis	10	670.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	670.00	
White	3	86.00	3.17	1.00	---	---	6.50	18.61	4.31	169.00	
Woodruff	4	390.00	5.00	2.00	2.00	8.00	12.00	47.67	6.90	2,080.00	

Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

County	Number of reports	Sum of acres	Application rate (acre-ft)					Total-water withdrawals (acre-ft)
			Avg	Min	25th	50th	75th	
Feedlots, Beef Cattle								
Chicot	1	1.00	2.00	2.00	---	---	---	2.00
Miller	1	60.00	3.00	3.00	---	---	---	180.00
Fruit Trees								
Calhoun	1	25.00	2.50	2.50	---	---	---	62.50
Chicot	1	3.00	.50	.50	---	---	---	1.50
Cleveland	1	7.60	1.00	1.00	---	---	---	7.60
Greene	1	7.00	.86	.86	---	---	---	6.02
Izard	1	20.00	.15	.15	---	---	---	3.00
Lafayette	1	5.00	.50	.50	---	---	---	2.50
Phillips	1	27.00	1.00	1.00	---	---	---	27.00
White	3	138.50	1.38	1.10	---	1.04	---	316.54
Yell	1	.50	1.00	1.00	---	---	2.02	.50
Goldfish								
Jackson	1	2.00	2.00	2.00	---	---	2.00	4.00
Grapes								
Franklin	1	80.00	.25	.25	---	---	.25	20.00
Hay								
Arkansas	50	1,450.00	1.00	.32	1.00	1.00	1.00	1,381.00
Ashley	1	50.00	.25	.25	---	---	---	12.50
Benton	5	286.00	.82	.50	.50	1.00	.73	230.90
Boone	4	293.00	1.31	.43	.43	.75	3.60	171.90
Chicot	1	15.00	.50	.50	---	---	---	7.50
Clark	1	40.00	.67	.67	---	---	---	26.68
Clay	1	42.00	.50	.50	---	---	---	21.00
Cleburne	1	300.00	.50	.50	---	---	---	150.00
Craighead	2	50.00	1.00	1.00	---	---	1.00	50.00
Crawford	1	70.00	1.00	1.00	---	---	---	70.00
Crittenden	1	50.00	.06	.06	---	---	---	3.00
Cross	3	142.00	.60	.30	---	.50	.49	59.10
Drew	1	30.00	.50	.50	---	---	---	15.00
Faulkner	1	40.00	1.00	1.00	---	---	---	40.00
Fulton	3	36.00	1.00	1.00	---	---	1.00	36.00
Greene	1	9.00	.60	.60	---	---	.60	5.40
Hot Spring	1	4.00	.25	.25	---	---	---	1.00
Jackson	8	616.00	1.06	.50	.50	1.00	1.37	691.00



Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

County	Number of reports	Sum of acres	Application rate (acre-ft)					Max	Variance	Std. dev.	Total-water withdrawals (acre-ft)
			Avg	Min	25th	50th	75th percentile				
Hay--Continued											
Jefferson	1	40.00	1.00	1.00	1.00	1.00	1.00	---	---	40.00	
Lafayette	1	60.00	1.00	1.00	---	---	1.00	---	---	60.00	
Lawrence	4	282.00	.63	.50	0.50	0.50	1.00	0.45	0.67	163.50	
Lee	1	10.00	.50	.50	---	---	.50	---	---	5.00	
Lonoke	8	416.00	.69	.67	.67	.67	.83	.48	.69	286.72	
Madison	2	190.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	190.00	
Miller	1	95.00	1.00	1.00	---	---	1.00	---	---	95.00	
Monroe	4	266.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	266.00	
Montgomery	3	112.00	1.17	.50	1.00	1.00	2.00	1.94	1.39	77.00	
Newton	1	27.00	6.00	6.00	---	---	6.00	---	---	162.00	
Perry	2	83.00	.25	.00	.25	.25	.50	.19	.43	37.50	
Phillips	1	22.00	1.00	1.00	---	---	1.00	---	---	22.00	
Poinsett	1	30.00	.50	.50	---	---	.50	---	---	15.00	
Polk	5	420.00	1.60	1.00	1.00	2.00	2.00	2.86	1.69	630.00	
Prairie	2	79.00	.66	.32	.66	.66	1.00	.67	.82	42.28	
Pulaski	2	100.00	.54	.33	.54	.54	.75	.38	.62	70.80	
St. Francis	1	8.90	1.88	1.88	---	---	1.88	---	---	16.73	
Saline	4	192.00	.32	.30	.30	.32	.33	.10	.32	61.46	
Sharp	1	15.00	.50	.50	---	---	.50	---	---	7.50	
Washington	3	186.00	1.37	1.00	1.50	1.50	1.60	1.97	1.40	264.00	
White	4	252.00	.56	.25	.25	.50	1.00	.42	.64	156.00	
Woodruff	6	640.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	640.00	

M110

Arkansas	126	4,706.00	1.39	.32	1.00	1.00	2.00	3.00	2.26	1.50	6,565.84
Ashley	2	37.00	.70	.40	---	.70	---	1.00	.67	.82	23.80
Baxter	1	24.00	1.00	1.00	---	---	1.00	---	---	---	24.00
Chicot	7	374.00	.44	.10	.25	.50	.50	.75	.24	.49	160.25
Clark	1	43.00	.67	.67	---	---	---	.67	---	---	28.68
Clay	108	3,807.00	.55	.00	.00	.00	.50	3.00	.43	.65	2,055.06
Craighead	74	2,496.00	.89	.20	1.00	1.00	1.00	1.00	.87	.93	2,323.90
Crittenden	6	603.00	.77	.50	.53	.79	1.00	1.00	.66	.81	465.35
Cross	23	1,238.40	.75	.25	.50	.50	1.00	1.50	.66	.81	798.40
Desha	35	2,586.00	1.40	1.00	1.00	1.50	1.50	2.00	2.02	1.42	3,519.50
Drew	2	180.00	.60	.20	---	.60	---	1.00	.68	.82	124.00
Greene	107	4,115.00	.37	.00	.00	.00	.00	4.00	.28	.53	1,553.39
Hot Spring	1	200.00	3.00	3.00	---	---	---	3.00	---	---	600.00
Independence	4	340.00	.91	.91	.91	.91	.91	.91	.83	.91	309.40
Jackson	56	2,027.00	.82	.00	.50	.88	1.00	2.00	.81	.90	1,652.50
Jefferson	9	587.00	1.22	1.00	1.00	1.00	1.00	2.00	1.69	1.30	637.00
Johnson	2	80.00	.30	.30	---	.30	---	.30	.09	.30	24.00
Lawrence	55	2,545.00	.90	.00	.50	1.00	1.00	2.00	.91	.96	2,247.50
Lee	14	765.00	.86	.33	.67	1.00	1.00	1.00	.80	.89	601.06
Lincoln	15	968.00	.48	.10	.40	.40	.70	.70	.26	.51	347.60
Little River	1	164.70	1.00	1.00	---	---	---	1.00	---	---	164.70
Lonoke	28	1,302.00	.64	.00	.33	.50	1.00	1.00	.49	.70	869.82

Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

County	Number of reports	Sum of acres	Application rate (acre-ft)					Max	Variance	Std. dev.	Total-water withdrawals (acre-ft)
			Avg	Min	25th	50th	75th percentile				
Mllo--Continued											
Mississippi	23	1,558.00	0.65	0.13	0.40	.60	1.00	.52	.72	920.94	
Monroe	30	2,560.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2,560.00	
Phillips	11	888.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	888.00	
Poinsett	28	1,888.00	.88	.50	.50	1.00	1.00	.83	.91	1,741.50	
Pope	1	40.00	.30	.30	---	---	.30	---	---	12.00	
Prairie	19	663.50	.50	.32	.32	.50	1.00	.30	.54	340.28	
Pulaski	2	138.00	.54	.33	---	.54	.75	.38	.62	69.90	
Randolph	24	983.00	.76	.75	.75	.75	1.00	.58	.76	754.75	
St. Francis	13	871.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	871.00	
White	29	436.20	.49	.00	.50	.50	.50	.24	.49	216.90	
Woodruff	22	1,419.00	.32	.08	.17	.32	.33	.13	.37	400.81	
Yell	3	62.00	.83	.50	---	.50	1.50	1.03	1.01	53.00	
Minnows											
Ashley	1	80.00	2.50	2.50	---	---	---	2.50	---	200.00	
Lonoke	11	490.00	4.00	4.00	4.00	4.00	4.00	16.00	4.00	1,960.00	
Monroe	1	15.00	5.00	---	---	---	---	5.00	---	75.00	
Prairie	11	692.60	3.47	3.00	3.00	3.00	5.00	6.00	3.88	1,747.21	
Nuts											
Craighead	2	46.50	3.25	1.00	---	3.25	---	5.50	20.69	75.75	
Jefferson	1	4.00	2.50	2.50	---	---	---	2.50	---	10.00	
Lee	1	7.00	.50	.50	---	---	---	.50	---	3.50	
Phillips	1	20.00	.50	.50	---	---	---	.50	---	10.00	
Prairie	1	3.00	2.00	2.00	---	---	---	2.00	---	6.00	
Oats											
Craighead	1	85.00	1.00	1.00	---	---	---	1.00	---	85.00	
Rice											
Arkansas	1,984	108,927.14	2.17	.00	2.00	2.00	2.00	4.00	4.92	234,218.81	
Ashley	206	14,737.40	2.26	.00	2.00	2.00	2.00	3.30	5.37	33,653.37	
Baxter	1	96.00	3.00	3.00	---	---	---	3.00	---	288.00	
Benton	1	12.00	3.00	3.00	---	---	---	3.00	---	36.00	
Bradley	1	120.00	4.00	4.00	---	---	---	4.00	---	480.00	
Chicot	416	42,181.79	2.30	.00	2.00	2.00	4.00	5.71	2.39	97,769.59	
Clark	9	2,005.00	3.00	3.00	3.00	3.00	3.00	9.00	3.00	6,015.00	
Clay	713	41,264.89	2.57	.25	2.00	2.00	3.75	6.74	2.60	107,000.36	
Conway	11	960.00	2.54	2.50	2.50	2.50	2.90	6.45	2.54	2,443.60	

Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

County	Number of reports	Sum of acres	Application rate (acre-ft)					Total-water withdrawals (acre-ft)			
			Avg	Min	25th	50th	75th		Max	Variance	Std. dev.
Rice--Continued											
Craighead	1,242	68,447.56	2.92	1.00	3.00	3.00	3.00	4.00	8.59	2.93	200,576.16
Crawford	1	170.00	.00	.00	---	---	---	.00	---	---	.00
Crittenden	98	8,631.00	2.92	.25	3.00	3.00	3.00	3.60	8.70	2.95	25,288.29
Cross	1,087	70,949.64	3.48	.00	3.00	3.00	3.00	5.00	12.13	3.48	246,138.50
Desha	446	32,527.89	3.07	.32	3.00	3.00	3.00	5.00	9.69	3.11	99,690.00
Drew	85	6,405.00	1.84	.20	1.00	2.00	2.00	4.00	3.86	1.96	11,888.60
Faulkner	13	1,269.00	2.54	1.50	2.00	2.50	3.00	3.50	6.80	2.61	2,844.00
Franklin	5	124.00	2.90	2.50	3.00	3.00	3.00	3.00	8.46	2.91	342.00
Greene	810	39,224.09	2.03	.00	2.00	2.00	2.00	4.00	4.17	2.04	79,943.59
Hempstead	7	2,450.00	2.50	2.50	2.50	2.50	2.50	2.50	6.25	2.50	6,125.00
Hot Spring	5	885.00	2.90	1.50	2.50	3.00	4.00	4.00	9.21	3.03	2,582.50
Independence	60	5,011.80	2.17	2.00	2.00	2.00	2.17	2.17	4.71	2.17	10,875.58
Jackson	1,263	72,938.88	2.97	.00	3.00	3.00	3.00	3.00	8.88	2.98	216,196.34
Jefferson	582	48,680.98	2.49	.00	2.00	2.00	2.00	2.50	6.21	2.49	121,509.98
Lafayette	23	2,587.00	1.30	.50	.75	.75	2.00	3.50	2.55	1.60	2,999.75
Lawrence	1,097	62,428.00	3.87	.83	3.00	4.00	4.00	5.00	15.33	3.92	242,042.00
Lee	629	32,574.50	2.99	.00	3.00	3.00	3.00	3.00	8.95	2.99	97,376.66
Lincoln	406	28,917.50	2.64	.00	3.00	3.00	3.00	3.00	7.26	2.69	75,033.47
Little River	6	630.80	2.37	.00	1.40	3.00	3.20	3.60	7.51	2.74	1,739.40
Logan	16	559.30	2.34	1.00	2.50	2.50	2.50	2.50	5.65	2.38	1,243.25
Lonoke	1,468	80,059.14	2.50	.50	2.00	2.00	2.00	15.00	6.42	2.53	196,312.91
Miller	22	16,106.00	3.11	.25	2.83	3.00	3.95	4.42	10.73	3.28	60,145.23
Mississippi	185	15,980.00	2.95	.00	3.00	3.00	3.00	4.00	8.85	2.98	47,803.98
Monroe	740	41,675.00	3.00	1.00	3.00	3.00	3.00	5.00	9.11	3.02	125,076.00
Nevada	1	120.00	1.00	1.00	---	---	---	1.00	---	---	120.00
Perry	12	2,175.00	3.04	2.50	3.00	3.00	3.00	3.60	9.34	3.06	6,488.00
Phillips	296	18,054.30	3.00	1.10	3.00	3.00	3.00	3.50	8.98	3.00	54,010.89
Poinsett	1,373	99,003.69	3.00	1.00	3.00	3.00	3.00	3.50	8.99	3.00	296,911.69
Pope	13	436.50	2.77	.50	3.00	3.00	3.00	3.00	8.15	2.86	1,207.00
Prairie	917	49,060.21	3.03	.00	3.00	3.00	3.00	5.00	9.33	3.06	147,704.81
Pulaski	92	5,521.70	2.48	1.00	2.00	2.00	2.50	3.00	6.25	2.50	13,775.75
Randolph	288	17,076.00	2.98	2.00	3.00	3.00	3.00	3.75	8.92	2.99	51,018.50
St. Francis	608	38,928.48	3.10	.00	3.00	3.00	3.00	3.12	9.67	3.11	121,031.67
Saline	2	37.00	1.61	.10	---	1.61	---	3.12	7.15	2.67	79.20
White	767	27,771.45	2.51	.50	2.00	2.00	2.00	3.50	6.35	2.52	69,967.69
Woodruff	789	42,447.86	3.62	.50	3.00	3.00	4.00	6.00	14.10	3.76	149,152.03
Yell	19	2,007.00	3.54	3.00	3.00	3.50	4.00	4.50	12.79	3.58	7,294.50
Sod											
Benton	1	.00	.00	.00	---	---	---	.00	---	---	.00
Boone	3	66.00	.97	.60	---	---	---	1.32	1.08	1.04	47.92
Carroll	4	72.00	.67	.25	.25	1.00	.46	1.50	.78	.88	42.55
Chicot	2	22.00	.63	.50	---	.63	---	.75	.42	.65	14.50
Cleburne	3	2.91	.83	.75	---	.75	---	1.00	.72	.85	2.24
Craighead	1	13.00	1.00	1.00	---	---	---	1.00	---	---	13.00

Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

County	Number of reports	Sum of acres	Application rate (acre-ft)					Max	Variance	Std. dev.	Total-water withdrawals (acre-ft)
			Avg	Min	25th	50th	75th percentile				
Sod--Continued											
Faulkner	1	90.00	.50	.50	---	---	.50	---	---	45.00	
Johnson	2	1.00	.42	.42	---	.42	.42	.18	.42	.42	
Logan	1	.50	2.00	2.00	---	2.00	2.00	---	---	1.00	
Lonoke	9	525.00	1.44	1.00	1.00	1.00	2.00	2.36	1.54	815.00	
Madison	3	102.00	.44	.00	---	.33	1.00	.46	.68	41.85	
Miller	1	65.00	1.85	1.85	---	---	1.85	---	---	120.25	
Mississippi	8	320.00	2.25	1.00	1.00	2.75	3.00	5.92	2.43	737.50	
Montgomery	1	3.00	4.70	4.70	---	---	4.70	---	---	14.10	
Perry	9	960.00	4.36	.00	.31	1.00	26.92	92.70	9.63	2,891.60	
Phillips	2	140.00	1.60	1.60	---	1.60	1.60	2.56	1.60	224.00	
Pope	1	.75	3.00	3.00	---	---	3.00	---	---	2.25	
Pulaski	4	640.00	.75	.75	.75	.75	.75	.56	.75	480.00	
Sebastian	3	1.70	1.93	.60	---	1.00	4.20	7.63	2.76	3.22	
Washington	1	58.00	.70	.70	---	---	.70	---	---	40.60	
White	6	550.00	2.42	.50	.50	.75	6.00	13.58	3.69	3,036.50	
Yell	1	.33	1.00	1.00	---	---	1.00	---	---	.33	
Sorghum											
Ashley	2	40.00	.60	.20	---	.60	1.00	.68	.82	16.00	
Greene	1	17.00	.40	.40	---	---	.40	---	---	6.80	
Jackson	1	80.00	1.50	1.50	---	---	1.50	---	---	120.00	
Jefferson	3	58.00	1.00	1.00	---	1.00	1.00	1.00	1.00	58.00	
Lincoln	1	35.00	.40	.40	---	---	.40	---	---	14.00	
Mississippi	4	293.00	.32	.20	0.20	.20	.70	.17	.41	98.60	
Monroe	1	45.00	1.00	1.00	---	---	1.00	---	---	45.00	
Phillips	2	295.00	1.00	1.00	---	1.00	1.00	1.00	1.00	295.00	
Polk	1	20.00	1.00	1.00	---	---	1.00	---	---	20.00	
Woodruff	6	230.50	.58	.33	.33	.41	1.00	.45	.67	163.26	
Soybeans											
Arkansas	2,021	184,348.22	1.74	.00	1.00	2.00	2.00	3.68	1.92	323,456.75	
Ashley	127	7,502.50	.54	.00	.00	.50	.50	.41	.64	4,109.07	
Bradley	4	410.00	.50	.50	.50	.50	.50	.25	.50	205.00	
Calhoun	1	20.00	1.00	1.00	---	---	1.00	---	---	20.00	
Chicot	204	21,951.30	.61	.00	.00	.50	.50	.53	.73	14,623.67	
Clark	2	150.00	.67	.67	---	.67	.67	.44	.67	100.05	
Clay	494	28,151.89	.63	.00	.00	.50	.50	.48	.69	17,620.81	
Conway	15	2,547.00	.56	.25	.25	.60	1.40	.41	.64	1,204.00	
Craighead	1,041	62,585.13	.97	1.00	1.00	1.00	3.00	.99	.99	61,982.81	
Crawford	2	255.00	.33	.00	---	.33	.66	.33	.57	36.30	
Crittenden	155	20,152.00	1.09	.00	1.00	1.00	6.20	1.66	1.29	25,791.05	
Cross	1,215	97,202.30	.91	.00	1.00	1.00	5.00	.97	.98	88,630.00	

Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

County	Number of reports	Sum of acres	Application rate (acre-ft)					Max	Variance	Std. dev.	Total-water withdrawals (acre-ft)
			Avg	Min	25th	50th	75th percentile				
Soybeans--Continued											
Desha	474	30,409.70	1.37	0.00	1.00	1.00	1.00	2.03	1.43	38,289.96	
Drew	46	4,235.00	.66	.20	.50	.50	2.00	.60	.78	2,826.00	
Faulkner	9	1,101.50	.95	.50	.80	1.25	2.00	1.19	1.09	1,071.20	
Franklin	7	495.00	.42	.30	.50	.50	.50	.19	.43	194.10	
Greene	316	15,727.00	.39	.00	.00	.00	3.00	.22	.47	6,246.99	
Hempstead	7	1,050.00	2.50	2.50	2.50	2.50	2.50	6.25	2.50	2,625.00	
Hot Spring	4	775.00	.81	.25	1.00	1.00	1.00	.80	.89	726.25	
Independence	17	911.60	1.13	1.13	1.13	1.13	1.13	1.28	1.13	1,030.11	
Jackson	925	61,485.28	.87	.00	1.00	1.00	3.00	.92	.96	56,321.90	
Jefferson	436	33,849.49	1.00	.75	1.00	1.00	1.00	1.00	1.00	33,830.74	
Johnson	8	680.00	.31	.25	.31	.33	.40	.10	.32	214.90	
Lafayette	10	973.00	.55	.13	.50	.90	1.00	.42	.65	639.15	
Lawrence	544	31,766.00	.98	.00	1.00	1.00	5.00	1.17	1.08	30,516.50	
Lee	677	52,978.00	.97	.00	1.00	1.00	3.00	.97	.99	49,509.87	
Lincoln	395	26,771.00	.60	.00	.00	.00	4.00	.42	.65	15,558.63	
Little River	2	338.70	.50	.00	.50	.50	1.00	.75	.87	331.70	
Logan	10	305.00	.40	.20	.30	.40	.60	.18	.42	123.40	
Lonoke	1,312	91,515.16	.55	.00	.00	.00	3.25	.37	.61	49,756.67	
Miller	4	540.00	.54	.16	.16	.50	.99	.41	.64	377.70	
Mississippi	366	50,932.50	.64	.00	.00	.00	3.00	.51	.71	34,665.62	
Monroe	867	56,433.59	.99	.00	1.00	1.00	3.00	1.00	1.00	56,046.66	
Nevada	1	250.00	.50	.50	.50	.50	.50	---	---	125.00	
Perry	11	3,499.00	1.19	.80	.80	1.00	2.00	1.57	1.25	4,853.80	
Phillips	280	30,632.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	30,632.00	
Poinsett	1,251	111,712.69	.97	.00	1.00	1.00	6.00	1.10	1.05	124,456.45	
Pope	15	866.00	.55	.10	.30	.50	1.50	.44	.67	536.11	
Prairie	954	76,985.88	.65	.00	.00	.00	1.32	.49	.70	51,649.16	
Pulaski	134	12,614.00	.80	.00	.00	.00	2.50	.68	.82	10,027.75	
Randolph	120	6,636.00	1.44	.20	1.00	1.00	3.00	2.15	1.47	9,580.50	
St. Francis	592	44,883.69	1.00	.00	1.00	1.00	1.50	1.00	1.00	44,717.69	
Saline	1	70.00	1.00	1.00	---	---	1.00	---	---	70.00	
Sebastian	1	121.00	2.53	2.53	---	---	2.53	---	---	305.89	
White	453	19,524.99	.55	.00	.00	.00	2.50	.39	.62	10,557.32	
Woodruff	956	67,114.17	.59	.00	.00	.00	7.50	.55	.74	38,665.27	
Yell	16	1,680.00	.48	.10	.33	.50	1.50	.35	.59	772.63	
Vegetables											
Arkansas	9	463.00	1.11	1.00	1.00	1.00	2.00	1.35	1.16	500.00	
Bradley	2	10.00	.50	.00	.50	---	1.00	.75	.87	5.00	
Chicot	1	135.00	1.00	1.00	---	---	1.00	---	---	135.00	
Cleburne	1	0.25	4.00	4.00	---	---	4.00	---	---	1.00	
Craighead	1	7.00	1.00	1.00	---	---	1.00	---	---	7.00	
Crawford	2	101.00	1.14	.66	1.14	1.62	1.62	1.76	1.33	137.70	
Cross	1	1.00	1.00	---	---	---	1.00	---	---	1.00	

Table 2.--Water application statistics for crops and livestock for Arkansas counties, 1989--Continued

County	Number of reports	Sum of acres	Application rate (acre-ft)					Max	Variance	Std. dev.	Total-water withdrawals (acre-ft)
			Avg	Min	25th	50th	75th percentile				
Vegetables--Continued											
Desha	9	314.00	1.50	1.00	1.00	1.00	1.50	3.00	1.73	354.00	
Faulkner	1	7.00	2.00	2.00	2.00	2.00	2.00	2.00	---	14.00	
Grant	2	56.00	.80	.10	.80	---	1.50	1.62	1.27	70.00	
Jackson	1	130.00	1.30	1.30	---	---	1.30	---	---	169.00	
Jefferson	3	152.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	152.00	
Johnson	2	6.00	.10	.10	.10	---	.10	.01	.10	0.60	
Lawrence	1	1.00	1.00	1.00	1.00	1.00	1.00	---	---	1.00	
Lee	2	8.70	.32	.14	.32	---	.50	.17	.41	1.58	
Lincoln	9	747.00	.83	.10	.10	---	1.50	1.11	1.05	609.50	
Lonoke	1	2.00	.33	.33	---	---	.33	---	---	0.66	
Mississippi	6	227.00	.50	.10	.30	---	1.00	.41	.64	107.10	
Newton	1	1.00	.50	.50	---	---	.50	---	---	0.50	
Phillips	2	20.00	1.00	1.00	1.00	---	1.00	1.00	1.00	20.00	
Polk	5	17.00	1.20	1.00	1.00	1.00	2.00	1.64	1.28	19.00	
Pope	2	22.00	2.00	1.00	2.00	---	3.00	6.00	2.45	26.00	
Pulaski	2	91.00	.75	.75	---	---	.75	.56	.75	68.25	
Saline	1	8.00	1.80	1.80	---	---	1.80	---	---	14.40	
Washington	2	7.00	.77	.25	---	---	1.30	1.15	1.07	8.05	
White	7	37.00	.54	.25	.50	.50	1.00	.34	.58	14.50	
Yell	1	0.50	1.00	1.00	---	---	1.00	---	---	0.50	
Wheat											
Craighead	3	235.00	1.00	1.00	---	---	1.00	1.00	1.00	235.00	
Crittenden	7	1,140.00	.79	.50	0.50	1.00	1.00	.69	.83	937.50	
Jackson	1	136.00	.50	.50	---	---	.50	---	---	68.00	
Jefferson	3	211.00	1.00	1.00	---	---	1.00	1.00	1.00	211.00	
Lee	4	320.00	.41	.33	.33	.33	.67	.20	.45	139.60	
Lonoke	1	100.00	.33	.33	---	---	.33	---	---	33.00	
Miller	1	100.00	1.40	1.40	---	---	1.40	---	---	140.00	
Mississippi	8	1,385.00	.79	.50	.50	1.00	1.00	.68	.83	977.00	
Monroe	3	195.00	1.00	1.00	---	---	1.00	1.00	1.00	195.00	
Phillips	6	700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	700.00	
Poinsett	2	200.00	1.00	1.00	---	---	1.00	1.00	1.00	200.00	
Pulaski	1	44.00	.75	.75	---	---	.75	---	---	33.00	
Woodruff	1	80.00	.08	.08	---	---	.08	---	---	6.40	

Table 3.--Number of withdrawal registrations  
for Arkansas counties

[GW, ground water; SW, surface water]

County	Number of registrations		Number of registrations		
	GW	SW	GW	SW	
Arkansas	2,098	1,007	Little River	20	14
Ashley	845	93	Logan	26	23
Baxter	18	3	Lonoke	2,472	675
Benton	14	30	Madison	7	20
Boone	10	22	Marion	8	1
Bradley	11	4	Miller	51	41
Calhoun	22	0	Mississippi	783	49
Carroll	11	31	Monroe	2,358	196
Chicot	868	371	Montgomery	3	11
Clark	6	19	Nevada	3	4
Clay	1,937	61	Newton	11	10
Cleburne	6	24	Ouachita	13	4
Cleveland	6	0	Perry	5	31
Columbia	36	3	Phillips	860	8
Conway	22	26	Pike	5	11
Craighead	2,260	180	Poinsett	2,318	257
Crawford	3	20	Polk	1	15
Crittenden	670	25	Pope	21	27
Cross	2,214	182	Prairie	1,773	372
Dallas	5	0	Pulaski	196	119
Desha	1,140	541	Randolph	466	115
Drew	320	146	St. Francis	1,448	93
Faulkner	19	33	Saline	36	19
Franklin	19	16	Scott	0	10
Fulton	5	10	Searcy	4	1
Garland	15	15	Sebastian	2	10
Grant	10	0	Sevier	5	6
Greene	1,509	58	Sharp	11	8
Hempstead	20	15	Stone	5	7
Hot Spring	4	19	Union	68	0
Howard	7	9	Van Buren	6	5
Independence	112	27	Washington	4	37
Izard	17	3	White	1,104	208
Jackson	2,824	155	Woodruff	1,901	182
Jefferson	1,272	363	Yell	10	50
Johnson	12	13			
Lafayette	90	12			
Lawrence	1,623	174			
Lee	1,655	44			
Lincoln	812	246	Total	38,551	6,639