

WATER USE IN KANSAS
COLLECTION AND UTILIZATION OF WATER USE DATA

BY: Lane P. Letourneau
Hydrologist
Division of Water Resources
Kansas State Board of Agriculture

STATUTORY AUTHORITY

Water use in the state of Kansas is governed by the Kansas Water Appropriation Act. The act is the group of statutes used by the Division of Water Resources to regulate the water in Kansas. The act is based on the prior appropriation doctrine, which applies the concept of "first in time - first in right" and also provides a mechanism for individuals to use the waters in the state. The act also provides a mechanism to obtain water use information by placing a condition on all water rights which requires that water use records be maintained by the water right owner and reported to the Division of Water Resources annually. Finally, in 1988, legislation was passed to add a statute to the act which requires the owner of a water right to file a complete and accurate annual water use report on or before March 1 of every year. The statute provides a penalty for anyone who fails to file a report by March 1, by setting forth a civil penalty not to exceed \$250.00. Further, any person who knowingly files false information can be guilty of a class C misdemeanor.

Prior to this piece of legislation, the Division of Water Resources received approximately sixty percent of the total annual water use reports. Now with the enforcement of the civil penalties, the Division of Water Resources receives well over ninety-nine percent of the total annual water use reports. For example, last year approximately 14,000 water use reports were requested and less than twenty have not been received by the Division. These last files normally represent ownership problems and property detained by bankruptcy or foreclosure.

WATER USE REPORT FORMS

So, the Division of Water Resources receives the information in a consistent format and as a courtesy, the Division provides water use report forms to the water right owners by mail the first working day of the each calendar year.

The Irrigation Form: Provided to the water right owner is the entire form, the water right file number and the legal description of the point of diversion whether a well or a surface water pumpsite. The requested information which is the responsibility of the water right owner is:

Chemigation: Needed is an indication if the owner plans to inject fertilizer, herbicide, or pesticide through his or her irrigation system;

Acres irrigated: The requested information is the number of acres that were irrigated from the particular point of water diversion;

Meter data (beginning and ending water meter reading): If the point of diversion has a totalizing flow meter, required information is the meter reading at the start of irrigation of the season and the meter reading at the end of the irrigation season;

Meter quantity of water: This is the difference between the beginning and ending meter reading to obtain the total water diverted for that season;

Unit: Because water meters read in different units, the meter unit must be reported so the value of the total quantity is correct. Examples: acre-feet, acre-inches, or gallons;

Hours pumped: This information is required if a water meter is not installed or water meter readings can not be obtained, required is the actual hours of pump operation. This is a factor to be used in the calculation of the total water diverted for the year;

Pump rate: Required is the average rate that the pump diverts water. Also a factor to be used in the calculation of the total water diverted for the year;

Crop code: Required is the type of irrigated crop grown;

Type of system: Required is the type of irrigation system. Examples: flood or center pivot;

Well data: Required is the total well depth, the static water level and the date the water level was taken;

Total acres: Required is the total acres irrigated on the face of the form. This is used to determine if above acreage has been reported more than once.

Municipal use: Provided to the water right owner is the entire form, the water right file number and the legal description of the point of water diversion. The requested information is the metered quantity and meter units. Hours pumped and pump rate. Well information is requested. Also requested with the municipal report is monthly data diversified with the components of a public water supply distribution system.

Raw water diverted: The amount of water diverted by month from the water diversion points;

Water purchased: The amount of water purchased wholesale by month from other water supply systems;

Water sold: The amount of water sold wholesale by month to other water supply systems;

Water sold to livestock and industrial customers: The amount of water sold retail to livestock and industrial customers using at least 200,000 gallons of water per year;

Water sold to residential and commercial customers: The amount of water sold to residential and commercial customers, households and businesses;

Metered water provided free for public service: The amount of water that is metered at service connections and delivered free for public service (watering parks and swimming pools) or use in the treatment process;

Remaining water used: This column represents the distribution system unaccounted for water system losses. The gallons reported in this column are obtained by adding columns 1 and 2 and subtracting columns 3,4,5, and 6. This information has assisted cities in locating their waste and leaks;

Population, service connections, water and sewer rates: An estimation of population the water distribution served. An estimation of active service connections by type. This reported data is used to determine gallons per capita information.

Number of service connections which the meter installed is more than ten years old. Older meters tend to under register which indicates unaccounted for water in the last column of the annual water use report.

Also on the municipal report, requested is the water and sewer rate structure. How much the water costs. Funny as it may seem, by checking this data we have found, the more water costs, the less water is used. Public water supplies which have a rate structure that charge more for water show significantly less gallons per capita per day usage than a public water supply which has a structure that provides water at a cheaper rate.

Industrial use: Provided to the water right owner is the same information as the other water use report forms with the same basic data requested. Unique to industrial use is the number of employees and the Federal Standard Industrial Classification Code that represents the product produced during their industrial process. This information is used to determine the amount of water used by product by number of employees. This data assists the Division of Water Resources in determining future industrial water needs.

Stockwatering use: Provided to the water right owner is the same information as the other water use report forms with the same basic data requested. Unique to the stockwatering report is the average number of head by type of stock confined within a feedlot. This data assists the Division in determining the water use and future water needs in feedlot operations.

Remaining uses: Requests for water use information for the remaining beneficial uses of water are basic to the aforementioned report forms. Requested information is metered quantity of water, hours of operation, estimated pump rate, and well data if available.

The remaining water use reports are unique only by the type of beneficial use.

CONSEQUENCES OF NOT REPORTING TO THE DIVISION OF WATER RESOURCES

The situation of not reporting water use information to the Division of Water Resources does not normally occur. Consequences do exist for not reporting:

- (1) The Division of Water Resources has no water use information from which to determine the extent a water right has been developed within the water right's conditions. If the owner would ever attempt to sell his water right, he could not prove existence of his water right.
- (2) The Division of Water Resources can not determine the extent of how much water is actually being used within an area of consideration on new appropriation requests and permits can not and will not be issued without proper evaluation.
- (3) Civil penalties levee fines on water right owners who do not report accurately or do not report annually.
- (4) Reporting water use information is a condition of the permit to appropriate water for beneficial use. Failing to file an annual water use report is in violation of the permit, and can result in the revocation of the permit.

UTILIZATION OF THE WATER USE DATA

- (1) The water use data is used to determine the extent water is being appropriated across the state.
- (2) The data gives the Division of Water Resources facts on areas of high concentration of water use. These areas may need more stringent evaluation placed on them.
- (3) The data allows the Division to factually determine how much water is still available for appropriation from a local source of supply.
- (4) The data is used not only by the Division but by the Kansas Water Office and the United States Geological Survey. All agencies use this data to project the future needs of the water users.
- (5) The data is used to assist in setting appropriation limits by comparing water users to their peers. An example of this is a small city in western Kansas requests 100 million gallons of water per year to serve its residents. A comparison of water use data from other small cities within the city's region, tells the Division of Water Resources if the request is reasonable. Another example is an industry in Kansas requests 5,000,000 gallons of water per year to mix cattle feed. A comparison of water use data from another industry with the same standard industrial classification code, tells the Division if the request is reasonable.
- (6) County appraisers utilize the data to assess taxes.

- (7) The Division of Water Resources provides water use data to the Kansas Department of Revenue, which uses the data to assess the water protection fee. The fee helps fund the State Water Plan.
- (8) For irrigation purposes, comparing acre-foot per acre amounts by crop by system type gives the Division of Water Resources data to assist in enforcing conservation plans and better management of the natural resource.
- (9) For public water supplies, distribution system leaks, worn or broken meters, and/or waste of water can be determined by utilizing our water use data.

SUMMARY

Annual water use data is valuable in managing and regulating water resources. Complete water use data is important in the development and maintenance of a water right. Complete and accurate water use data eases the regulation of water use while protecting the resource for the future.

Attachments

Examples of:

- Irrigation Water Use Report
- Municipal Water Use Report
- Industrial Water Use Report
- Stockwater Water Use Report

1991 Water Use Summaries

Total for State/Total by County

1992 IRRIGATION WATER USE REPORT

This is the annual Water Use Report required to be filed for all Vested or Appropriation Rights. IMPORTANT: Kansas Law requires this completed form to be filed by March 1. Failure to do so will subject the owner to a civil fine not to exceed \$250. If any point of diversion shown below is permanently inoperable, please circle it. IF YOU DID NOT USE WATER, YOU MUST REPORT THE REASON FOR NON-USE TO HELP PROTECT YOUR WATER RIGHT. Information on each point of diversion must be completed. Please begin by reading the attached instructions and definitions.

FILE NUMBER	LEGAL DESCRIPTIONS OF POINT(S) OF DIVERSION			CHM	ACRES IRR.	BEGINNING WATER METER READING	ENDING WATER METER READING	METERED QUANTITY OF WATER	UNIT	HOURS PUMPED	PUMP RATE (GPM)	CROP CODE	TYPE OF SYSTEM	WELL DATA		
	QUALIFIERS	SEC	TWP											RNG	WELL DEPTH	DEPTH TO WATER
000043	SW SE: NW	30	24	35W	03	9160				1240	1000	16	1			
000068	0100N 4500W AKA: SE SW SW	07	25	36W	01	980				336	800	16	1			
000074	0100N 1500W AKA: SE SW SE	10	25	36W	03	ENROLLED IN CRP UNDER CONTRACT										
002492	3750N 4000W AKA: NE SW NW	33	24	36W	01	ENROLLED IN CRP UNDER CONTRACT										
008527	NW NW SW*06	24	36W	*01	5	240				220	300	16	1			
022092	5230N 1293W AKA: LOT 1	04	24	36W	01	5	140			350	550	16	1			
022093	2120N 5000W AKA: LOT 4	33	24	36W	02	ENROLLED IN CRP UNDER CONTRACT NO. 228										

CALENDAR YEAR: 92
 OFFICE USE: 1-001256
 FIELD OFFICE: G. C.
 CO: KE
 GMD: 3

Signature: *[Handwritten Signature]*
 DATE: 2/23/93

CIRCLE ONE: OWNER AGENT TENANT

See back of instruction sheet for additional information.

591661

BEYHER TRUST
 BOX 363
 LAKIA

KS 67860

FEB 26 1993

TELEPHONE NUMBER: 316 355 6232
 DWR 1-814 (REV. 7/10/82)

**1992 MUNICIPAL WATER USE REPORT
(PUBLIC WATER SUPPLY)**

IMPORTANT: YOU MUST REPORT ANNUAL USAGE OR THE REASON FOR NON-USAGE, IN ORDER TO PROTECT YOUR RIGHT TO USE WATER.

This is the annual Water Use Report required to retain all Vested or Appropriation Rights. **COMPLETE AND RETURN BY MARCH 1, 1993.** Please begin by reading the instructions for Part A on the reverse side of this page. Also present are instructions for name and address changes, **which include information needed if you have disposed of your interest in one or more of the water right file numbers listed below.** If you have any questions on how to complete this form, please contact the Water Use Coordinator at (913) 296-3717. Please make a copy of the entire Water Use Report for your records, and return the original report to:

Water Use Coordinator
Kansas State Board of Agriculture
Division of Water Resources
901 South Kansas, Second Floor
Topeka, Kansas 66612-1283

PART A: POINTS OF DIVERSION

Water Right File Number	Legal Descriptions Point(s) of Diversion	Metered Quantity	Meter Units	Hours Pumped	Est. Pump Rate (gpm)	Well Data		
						Well Depth	Depth to Water	Date Measured
020606-00 aka: WELL #4	NE NW NW 15-11-14E 03	19,679,000	G	1104	292	52	25'10"	12-14-92
035674-00 aka: SE SW SW - WELL #5	0090N 4060W 10-11-14E 03	24,353,200	G	1032	400	57	25'10"	12-14-92

Check here if you are purchasing water from or selling water to other public water suppliers and report amounts on PART B, columns 2 and 3, and PART E.

Date: 02-08-93 Telephone: (913) 582-4280

I submit this report with the knowledge that if it contains any false information I will be guilty of a Class C misdemeanor.

92 016478 -1 MUN Top. 89 0
Office Use FO CO

Russell R. Kalcik
Name (Printed or Typed)

CITY OF SILVER LAKE
C/O CITY CLERK
BOX 92, 218 W RAILROAD
SILVER LAKE KS 66539

DIV. OF WATER RES. RECEIVED

FEB 09 1993

ST. BO. OF AGRICULTURE

Russell R. Kalcik
Name (Signature)

Owner

Tenant

Agent

1992 MUNICIPAL WATER USE REPORT (PUBLIC WATER SUPPLY)

PART B: MONTHLY WATER USE SUMMARY (REPORT ALL AMOUNTS IN UNITS OF 1000 GALLONS) 016478 / MUN
 NOTE: REPORT WATER USE IN COLUMNS 1 THROUGH 6, BASED ON THE MONTH OF ACTUAL USE.

Column 1: The amount of water diverted, by month, from all points of diversion. If possible, raw water meters should be read at the same time of the month as customer meters. For most public water suppliers, the total amount in this column should equal the total of the amounts reported in PART A.

Column 2: The amount of water purchased, by month, from all other public water supply systems or the Kansas Water Office. Please provide further detail in PART E.

Column 3: The amount of water sold, by month, to all other public water supply systems. Please provide further detail in PART E.

Column 4: The amount of water sold, by month, to all pasture, stockwater, feedlot, or bulk water service connections. Also, the amount of water sold, by month, to all industries and farmsteads using at least 200,000 gallons of water per year.

Column 5: The amount of water sold, by month, to your residential and commercial customers and to industries and farmsteads using less than 200,000 gallons of water per year.

Column 6: The amount of water use, by month, that is metered at individual service connections and supplied free for public service or use in the treatment process.

Column 7: The amount of remaining water use, by month. The gallons reported in this column are found by adding the numbers in Columns 1 and 2 and subtracting the numbers in Columns 3, 4, 5, and 6. If you do not sell water to your customers, this column simply represents the total amount of water that you diverted or purchased.

Month	Column 1 Raw Water Diverted Under Your Rights (1000 Gallons)	Column 2 Water Purchased From All Sources (1000 Gallons)	Column 3 Water Sold to Other Public Water Suppliers (1000 Gallons)	Column 4 Water Sold to Your Livestock and Industrial Customers (1000 Gallons)	Column 5 Water Sold to Your Residential and Commercial Customers (1000 Gallons)	Column 6 Metered Water Provided Free For Public Service (1000 Gallons)	Column 7 Remaining Water Used (See Above Explanation) (1000 Gallons)
Jan.	3915		12		3642	6	255
Feb.	3001		10		2852	6	133
Mar.	3399		9		3202	6	182
Apr.	3359		8		3112	51	188
May	4079		8		3791	66	214
June	4451		15		3993	58	385
July	4159		11		3820	61	267
Aug.	3132		9		2790	16	317
Sept.	4675		12		4087	100	476
Oct.	3510		11		3114	88	297
Nov.	3799		11		3542	7	239
Dec.	2981		7		2774	26	174
Total	44460		123		40719	491	3127

ST. CO. OF AGRICULTURE
 DIV. OF WATER RESOURCES
 FEB 09 1993

PART C: POPULATION, SERVICE CONNECTIONS, WATER AND SEWER RATES

- Estimate the population served for the usage in Columns 5, 6, and 7; if you are a city, mobile home park, rural water district, school or an institutional facility. 1450
- If you are a city, mobile home park or rural water district, provide the number of active service connections according to their primary type of use during 1992. 451 Residential/Domestic
40 Commercial/Institutional Industrial Pasture/Stockwater/Feedlot Other (Specify) 491 Total Active Service Connections
- How many of your customer meters are more than ten years old? 265
- If you sell water to residential customers, please attach a copy of your water and sewer rate structures that were in effect for the major portion of the 1992 calendar year and indicate the month and year that these rates first went into effect.

**1992 WATER USE REPORT
INDUSTRIAL USE**

IMPORTANT: YOU MUST REPORT ANNUAL USAGE OR THE REASON FOR NON-USAGE, IN ORDER TO PROTECT YOUR RIGHT TO USE WATER.

This is the annual Water Use Report required to retain all Vested or Appropriation Rights. **COMPLETE AND RETURN BY JANUARY 26, 1993.** Please begin by reading the instructions for Part A on the reverse side of this page. Also present are instructions for name and address changes, which include information needed if you have disposed of your interest in one or more of the water right file numbers listed below. If you have any questions on how to complete this form, please contact the Water Use Coordinator at (913) 296-3717. Please make a copy of the entire Water Use Report for your records, and return the original report to:

Water Use Coordinator
Kansas State Board of Agriculture
Division of Water Resources
901 South Kansas, Second Floor
Topeka, Kansas 66612-1283

PART A: POINTS OF DIVERSION

Water Right File Number	Legal Descriptions Point(s) of Diversion	Metered Quantity	Meter Units	Hours Pumped	Est. Pump Rate (gpm)	Well Data		
						Well Depth	Depth to Water	Date Measured
WY0007-00 aka: NC SW NW	3500N 4500W 28-10-25E 02		G	1002	20,800			
008505-00 aka: L-2(NENE)	SW NE NE 20-11-25E 05		G	8760	30,360			
020246-00 <i>All IND</i>	NC N2 SW NW 28-10-25E 07		G	8760	82,900			
024282-00	SW SW SW 13-10-24E 01	97,980,000	GAL				48 ft.	1-21-93
024283-00 X.00015	NE SW SE 14-10-24E 01		G	8760	141,900			

3/3/93

Check here if you are purchasing or selling water and report amounts on PART B, columns 2 and 3 and PART E.

Date: _____ Telephone: () _____

I submit this report with the knowledge that if it contains any false information I will be guilty of a Class C misdemeanor.

572479

92 020297 - 1 IND Top. 105 0
Office Use FO CO GMD

Name (Printed or Typed)

BPU WYANDOTTE CITY OF KANSAS
% MGR ENGR TECH SERVICES
700 MINNESOTA AVENUE
KANSAS CITY KS 66101

**CITY OF WATER RESOURCES
CITY RECEIVED**

JAN 28 1993

Name (Signature)

_____ Tenant _____ Agent

1992 WATER USE REPORT
INDUSTRIAL USE

PART B: MONTHLY WATER USE SUMMARY (REPORT ALL AMOUNTS IN UNITS OF 1000 GALLONS):

- Column 1: The amount of water diverted, by month, from all authorized points of diversion. The total amount in this column must equal the total of the amounts reported in PART A.
- Column 2: The amount of water purchased, by month, from all other entities. Please provide further detail in PART E.
- Column 3: The amount of water sold, by month, to all other entities. Please provide further detail in PART E.
- Column 4: The remaining amount of water used, by month, for your industry.

Month	Column 1 Raw Water Diverted Under Your Rights (1000 Gallons)	Column 2 Water Purchased From All Sources (1000 Gallons)	Column 3 Water Sold to Other Entities (1000 Gallons)	Column 4 Remaining Water Use (1000 Gallons)
Jan.	11,467,792	None 0	None 0	None
Feb.	10,109,776			
Mar.	10,518,080			
Apr.	10,819,860			
May	8,885,472			
June	11,868,912			
July	13,391,356			
Aug.	12,590,068			
Sep.	12,253,592			
Oct.	10,588,640			
Nov.	10,532,816			
Dec.	12,431,678			
Total	135,458,042	0	0	

Part C: EMPLOYEES AND PRODUCTS

1. Estimate the average number of employees that worked at this location during 1992. 267
2. a. The standard industrial classification code, for the type of water use that was reported in 1992, is 4911.
- b. Please describe the purpose for which water was utilized in 1992. To produce electric power generation

020297 IND Top. 105 0
Office Use FO CO GMD

DIV. OF WATER RES.
RECEIVED

JAN 23 1993

ST. JO. ST. STRUCTURE

572430

BPU WYANDOTTE CITY OF KANSAS CITY
% MGR ENGR TECH SERVICES
700 MINNESOTA AVENUE
KANSAS CITY KS 66101

**1992 WATER USE REPORT
STOCKWATER USE**

IMPORTANT: YOU MUST REPORT ANNUAL USAGE OR THE REASON FOR NON-USAGE, IN ORDER TO PROTECT YOUR RIGHT TO USE WATER.

This is the annual Water Use Report required to retain all Vested or Appropriation Rights. **COMPLETE AND RETURN BY JANUARY 26, 1993.** Please begin by reading the instructions for Part A on the reverse side of this page. Also present are instructions for name and address changes, which include information needed if you have disposed of your interest in one or more of the water right file numbers listed below. If you have any questions on how to complete this form, please contact the Water Use Coordinator at (913) 296-3717. Please make a copy of the entire Water Use Report for your records, and return the original report to:

Water Use Coordinator
Kansas State Board of Agriculture
Division of Water Resources
901 South Kansas, Second Floor
Topeka, Kansas 66612-1283

PART A: POINTS OF DIVERSION

Water Right File Number	Legal Descriptions Point(s) of Diversion	Metered Quantity	Meter Units	Hours Pumped	Est. Pump Rate (gpm)	Well Data		
						Well Depth	Depth to Water	Date Measured
033416-05	5230N 2660W 07-20-33W 04 aka: NE NE NW	—	E	568	12.5	124'	102	7/14/92
035642-05	5245N 1870W 07-20-33W 03 aka: NE NW NE	—	E	565	12.5	130'	97	9/8/81

570498

Date: Jan. 19, 1993 Telephone: (316) 872-2801

I submit this report with the knowledge that if it contains any false information I will be guilty of a Class C misdemeanor.

027343 - 1 STK G.C. 86 1
Office Use FO CO GMD

Tumbleweed Ranch Inc
Name (Printed or Typed)

TUMBLEWEED RANCH INC
RT 2 BOX 278
SCOTT CITY, KS 67871

DIV. OF WATER RES
RECEIVED

JAN 22 1993

Gerald E. Williams, President
Name (Signature)

1992 STOCKWATER USE REPORT
Owner _____ Tenant _____ Agent _____
DWR 1-511 (Rev. 12/02/92)

**1992 WATER USE REPORT
STOCKWATER USE**

PART B: MONTHLY WATER USE AND LIVESTOCK SUMMARY (REPORT ALL AMOUNTS IN UNITS OF 1000 GALLONS):

- Column 1: The amount of water diverted, by month, from all authorized points of diversion. The total amount in this column must equal the total of the amounts reported in PART A.
- Column 2: The amount of water purchased, by month, from all other entities.
- Column 3: The average number of head of cattle watered per day.
- Column 4: The average number of head of hogs watered per day.

Month	Column 1 Raw Water Diverted Under Your Rights (1000 Gallons)	Column 2 Water Purchased From All Sources (1000 Gallons)	Column 3 Average Number of Cattle	Column 4 Average Number of Hogs
Jan.	57			800
Feb.	56			800
Mar.	70			700
Apr.	73			700
May	63			600
June	71			600
July	97			600
Aug.	93			700
Sep.	79			700
Oct.	66			700
Nov.	67			800
Dec.	58			800
Total	850		Average for Year	Average for Year 708

Part C: WATER PURCHASED FROM OTHER ENTITIES

Please list the name and address of the entity from whom water listed in Column 2 was purchased: _____

8500

570499

DIV. OF WATER RES
RECEIVED

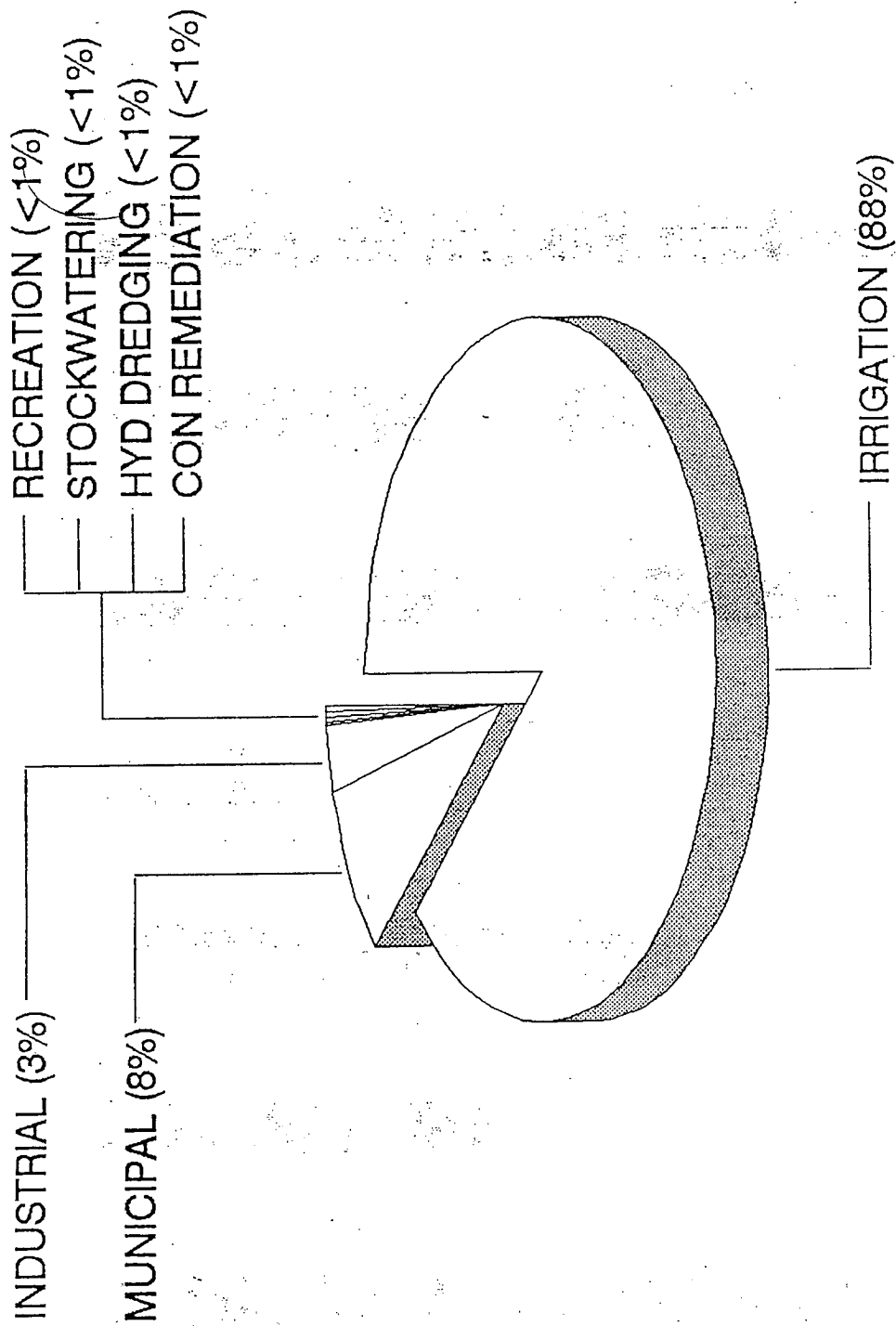
JAN 22 1993

STATE OF AGRICULTURE

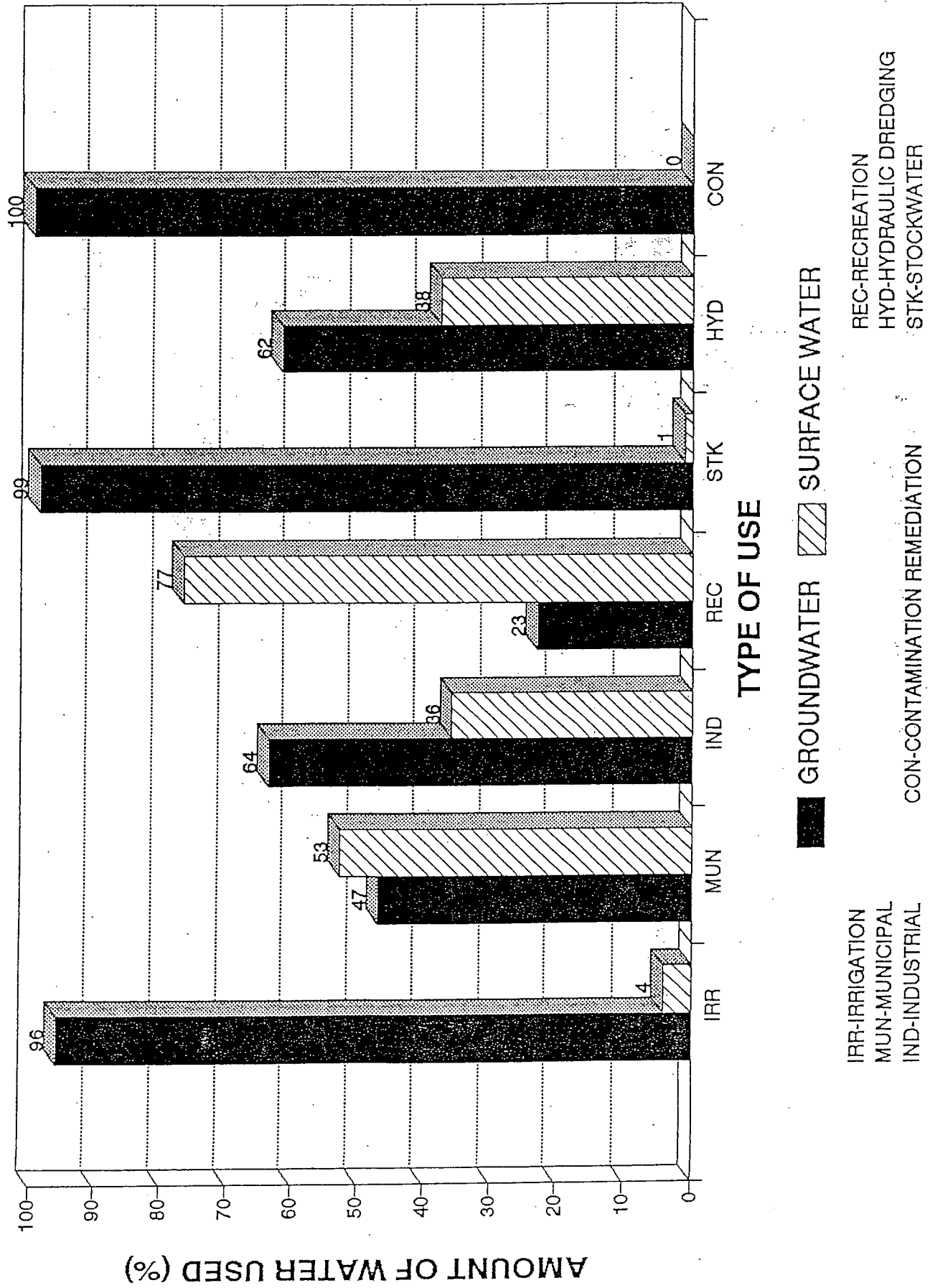
027343 STK G.C. 86 1
Office Use FO CO GMD

TUMBLEWEED RANCH INC
RT 2 BOX 278
SCOTT CITY, KS 67871

1991 WATER USE REPORTED BY TYPE



1991 WATER USE REPORTED BY SOURCE



DIVISION OF WATER RESOURCES
 KANSAS REPORTED WATER USE SUMMARY - 1991
 (FROM REPORTS RECEIVED BY DECEMBER 15, 1992)

COUNTY	GROUNDWATER					SURFACE WATER					SURFACE AND GROUNDWATER					TOTAL
	IND	IRR	MUN	REC	STK	IND	IRR	MUN	REC	STK	IND	IRR	MUN	REC	STK	
OSBORNE	0	3710	851	0	0	0	1551	12	0	0	0	5261	863	0	0	613
OTTAWA	0	3274	710	0	86	0	651	0	143	0	0	3925	710	143	86	486
PAWNEE	91	107468	1277	2	505	0	135	0	0	0	91	107603	1277	2	505	10947
PHILLIPS	10	9207	1573	0	0	0	456	0	0	0	10	8663	1573	0	0	1124
POTTAWATOMIE	6914	8559	6713	0	5	16395	1612	1	629	0	23309	10171	6714	629	5	4082
PRATT	175	97744	2226	875	482	0	0	0	1522	0	175	97744	2226	2397	482	10302
RAWLINS	47	19164	539	144	28	0	66	0	328	0	47	19230	539	472	28	2031
RENO	19410	38021	8914	151	260	0	13	0	0	0	19410	38034	8914	151	260	6676
REPUBLIC	109	31201	1098	0	190	0	7117	0	444	0	109	38318	1098	444	190	4015
RICE	2873	27405	1842	0	33	0	0	0	0	0	2873	27405	1842	0	33	3215
RILEY	188	3726	2969	0	14	80	264	1	0	0	268	3990	2970	0	14	724
ROOKS	22	1872	1072	0	33	0	4916	0	124	0	22	6788	1072	124	33	803
RUSH	28	15728	729	0	0	0	124	0	0	0	28	15852	729	0	0	1660
RUSSELL	50	0	148	0	0	1	0	412	0	0	51	0	560	0	0	61
SALINE	39	4044	3711	132	82	0	1275	4255	0	0	39	5319	7966	132	82	1353
SCOTT	40	89215	1216	0	2773	0	0	0	437	0	40	89215	1216	437	2773	9374
SEDGWICK	15264	42578	21250	1897	1	232	278	28607	223	0	15496	42856	49857	2120	1	11033
SEWARD	3415	199278	4973	86	1622	0	274	0	0	0	3415	199552	4973	86	1622	20964
SEAWNEE	4981	10748	969	0	0	1414	411	33182	543	0	6395	11159	34151	543	0	5224
SHERIDAN	145	106120	558	203	171	0	13	0	237	0	145	106133	558	440	171	10744
SHERMAN	0	134495	1817	0	121	0	0	0	0	0	0	134495	1817	0	121	13643
SMITH	0	4700	672	0	0	0	692	0	0	0	0	5392	672	0	0	606
STAFFORD	173	108864	928	572	279	0	0	0	2643	0	173	108864	928	3215	279	11348
STANTON	0	237474	670	0	405	0	0	0	0	0	0	237474	670	0	405	23854
STEVENS	106	236362	1297	0	685	0	0	0	0	0	106	236362	1297	0	685	23845
SUMNER	12	5756	2489	0	0	0	7	2002	18	0	12	5763	4491	18	0	1028
THOMAS	80	132610	2053	0	478	0	0	0	0	0	80	132610	2053	0	478	13522
TREGO	20	5487	574	0	137	10	10	0	53	17	30	5497	574	53	154	630
WABAUNSEE	17	3030	147	0	6	0	708	246	104	0	17	3738	393	104	6	426
WALLACE	0	87487	335	1	2	0	0	0	0	0	0	87487	335	1	2	8782
WASHINGTON	0	4330	984	0	9	142	3672	0	455	0	142	8002	984	455	9	959
WICHITA	22	120077	469	0	1421	0	36	0	0	0	22	120113	469	0	1421	12202
WILSON	0	0	0	0	0	357	923	1387	863	0	357	923	1387	863	0	353
WOODSON	0	0	0	0	0	0	56	404	788	0	0	56	404	788	0	124
WYANDOTTE	6580	4	3216	0	0	63	169	85350	169	0	6643	173	88566	169	0	9555

SUMMARY BY TYPE OF USE AND SOURCE

USE	GROUND	PERCENT	SURFACE	PERCENT	TOTAL	PERCENT
DOMESTIC *	145	0.0	10	0.0	155	0.0
INDUSTRIAL	97,855	1.9	55,686	11.1	153,541	2.8
IRRIGATION	4,595,004	92.9	182,490*	36.3	4,777,494	87.7
MUNICIPAL	197,591	3.9	219,814	43.8	417,405	7.6
RECREATION	11,190	0.2	37,552	7.4	48,742	0.8
STOCKWATERING	27,629	0.5	156	0.0	27,785	0.5
WATER POWER	0	0.0	0	0.0	0	0.0
ART. RECHARGE	0	0.0	10	0.0	10	0.0
HYDRO. DREDGING	9,385	0.1	5,703	1.1	15,088	0.2
CONT. REDIMATON	7,306	0.1	0	0.0	7,306	0.1
	<u>4,946,105 AF</u>	<u>90.7</u>	<u>501,421 AF</u>	<u>9.2</u>	<u>5,447,526 AF</u>	

ALL REPORTED USE IS ACRE FEET. ALL NUMBERS ARE ROUNDED TO THE NEAREST ACRE FOOT.

DOMESTIC, ARTIFICIAL RECHARGE, HYDROLOGIC DREDGING, CONTAMINATION REDIMATON, AND WATER POWER, ARE ONLY SHOWN IN SUMMARY TOTALS. DETAIL IS AVAILABLE FROM THE DIVISION OF WATER RESOURCES, 901 S. KANSAS AVE., TOPEKA, KANSAS 66612.

* DOMESTIC USE IS NOT REQUIRED TO HAVE A PERMIT TO USE WATER. THESE SUMMARIES REFLECT ONLY THOSE PERMITS WHICH HAVE REPORTED WATER USED FOR DOMESTIC USE AND NOT THE TOTAL BEING USED FOR DOMESTIC USE.

128,094 AF OF IRRIGATION SURFACE WATER IS REPORTED BY IRRIGATION DITCHES AND DISTRICTS.