



OKLAHOMA
Water Resources Board

Water Use Reporting in Oklahoma – Overview, Recent Changes, Challenges, and Goals

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Environmental Programs Specialist IV

Water Rights Administration Division (WRAD)

August 17, 2022

Who Needs a Water Use Permit?

- **"Beneficial use"** means the use of such quantity of stream or groundwater when reasonable intelligence and reasonable diligence are exercised in its application for a lawful purpose and as is economically necessary for that purpose. **Beneficial uses include but are not limited to municipal, industrial, agricultural, irrigation, mining, commercial, power, recreation, fish and wildlife, etc.**
- *Any person, firm, corporation, state or federal governmental agency, or subdivision thereof, intending to acquire the right to beneficial use of any water shall, before commencing any construction for such purposes or before taking the same from any constructed works, make an application to the Board [82:105.9] for a permit to appropriate such water. Water for domestic use, as defined herein, is exempt from such filing.*

**See OAC 785:30-1-2; 785:30-1-4;
785:20-1-2; 785:20-1-6**



OKLAHOMA
Water Resources Board

Domestic Use

NO PERMIT
REQUIRED

NO WATER USE
REPORTING

- The use of water by a natural individual or by a family or household for household purposes, for farm and domestic animals up to the normal grazing capacity of the land whether or not the animals are actually owned by such natural individual or family, and for the irrigation of land not exceeding a total of three (3) acres in area for the growing of gardens, orchards, and lawns [82:1020.1(2)]. Domestic use also includes:(1) the use of water for agriculture purposes by natural individuals, (2) use of water for fire protection, and (3) the use of water by non-household entities for drinking water purposes, restroom use, and the watering of lawns, provided that the amount of groundwater used for any such purposes does not exceed five acre-feet per year.



**See OAC 785:30-1-2;
785:20-1-2**

Water Use Reporting

- Required for long-term permits.
- Annual amount (acre-feet or gallons per year).
- Metering is not required.
- Annual water use packet mailed January of each year. March 15th deadline. April 15th late fee deadline.
- Late fee packet mailed September of each year.
- Annual \$25 GW permit & \$75 SW permit admin fee.

*See §82-1020.12; OAC 785:30-5-9;
785:30-5-2(c); 785:5*



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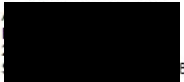
OKLAHOMA WATER RESOURCES BOARD
Water Rights Administration Division

3800 N. Classen Boulevard
Oklahoma City, OK 73118-2855
405-530-8800



2021 Annual Water Use Administration Fee Invoice

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OFFICE USE ONLY
(OWRB staff will fill in this box)

Check # _____

Check Amount _____

Amt. Applied to Invoice _____

19660191 \$75.00

Water Right Administration Fee: \$75.00

Water Right Late Fee: \$0.00

Total Due by March 15, 2022: \$75.00

The 2021 water use report(s) and administration fee(s) are due by March 15, 2022. If the report is filed on or after April 15, 2022, a late fee of \$50.00 per water right will be charged.

Please note that failure to submit the annual water use report(s) and the required fee(s) is in violation of State law and may result in cancellation of your water right.

Please return this invoice with a check payable to the Oklahoma Water Resources Board.



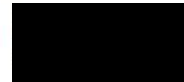
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2021 ANNUAL SURFACE WATER USE REPORT
- Irrigation

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OFFICE USE ONLY
(OWRB staff will fill in this box)

Check # _____

Check Amount _____

Amt. Applied to Invoice _____

Water Right Information	WATER RIGHT NO.	19660191	FACILITY
	COUNTY	Adair	SOURCE
Legal Description of Diversion Points	SE 13 19N 25E1	NW 18 19N 25E1	
Legal Description of Land	E2 13 19N 25E1	W2 18 19N 28E1	
Amount of Water Authorized	75.0 Acre Feet / Year		

If water was used, fill in the table below. If no water was used, check this box:

Attach a separate page with a short justification for any non-use.

For each purpose listed, indicate the amount of water used in gallons or acre-feet (indicate zero if no water was used for a particular purpose).	PURPOSE	AMOUNT IN GALLONS or ACRE-FEET <i>(circle units used)</i>
		Irrigation

1 acre-foot = 325,851 gallons

If you wish to cancel this water right, please check this box:

Sign and date the bottom of the report and complete the questionnaire. Please return by March 15, 2022.

Please see the enclosed page for any contact information or ownership changes.

Directions are included. FAQs can be found on the OWRB website.

Willful failure to properly report water use may result in cancellation of the water right.

Signature of Water Right Holder
Or Authorized Agent

Title

Telephone
Number

Date



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Water Resources Board



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**WATER USE SUMMARY QUESTIONNAIRE
IRRIGATION/AGRICULTURE**

A. WATER USE CALCULATIONS/SUMMARY1. Please complete ONLY ONE of the following:

a. Pumping rate in gallons per minute: _____ X hours pumped: _____ X 60 minutes per hour = _____
(total gallons used)

b. Acres irrigated: _____ X times irrigated: _____ X inches per application: _____ ÷ 12 = _____
(acre-feet used)

c. Meter Reading: _____ - _____ = _____
(December 31, 2021) (January 1, 2021) (total gallons used)

2. Type of system used (please circle):

Gravity Flood Trickle-drip Center pivot sprinkler Other sprinkler Sub-surface Micro-irrigation

B. SELF-SUPPLIED WATER

Indicate the monthly and total amount of water self-supplied in gallons. Self-supplied water is the total quantity produced from wells/diversion points (including any water sold to others) authorized by the water right.

MONTH	SELF-SUPPLIED	MONTH	SELF-SUPPLIED	MONTH	SELF-SUPPLIED
JAN		MAY		SEP	
FEB		JUN		OCT	
MAR		JUL		NOV	
APR		AUG		DEC	
TOTAL GALLONS FOR THE YEAR					

C. CROPS GROWN

Please list the types of crops grown and the number of acres irrigated for each type.

CROP TYPE	ACRES IRRIGATED	CROP TYPE	ACRES IRRIGATED

D. ANIMALS RAISED

Please list the types of animals raised and the number of animal units for each type.

ANIMAL TYPE	ANIMAL UNITS	ANIMAL TYPE	ANIMAL UNITS



005178

**Water Use Summary Questionnaire
SEE ENCLOSED SHEET FOR INSTRUCTIONS**

A. WATER USE

Indicate the monthly and total amount of water self-supplied and the monthly and total amount of water purchased (if applicable) in gallons. Self-supplied water is the total quantity produced from wells/diversion points (including any water sold to others) authorized by all the water rights included in this form. The sum of the amounts reported for all water rights included here should equal the total amount self-supplied below.

MONTH	SELF-SUPPLIED	PURCHASED	MONTH	SELF-SUPPLIED	PURCHASED
JAN			JUL		
FEB			AUG		
MAR			SEP		
APR			OCT		
MAY			NOV		
JUN			DEC		
TOTAL FOR YEAR					

If water was purchased, from whom? _____

Was purchased water raw _____ or treated _____? If both, % raw _____

How did you arrive at the figures provided above? Master Meter _____ Customer Meters _____ Estimated _____ Other _____

B. WATER SALES

List the names of water purchasers, their location (county), the quantities of water you sold to them, the cost they paid per thousand gallons, and whether the water was raw or treated for: (1) all purchases of 10 million gallons or more, and (2) all public water suppliers regardless of quantity. Attach additional sheets if necessary.

NAME OF PURCHASER	COUNTY	QUANTITY SOLD (GALLONS)	COST PER THOUSAND GALLONS	RAW OR TREATED

C. WATER SUPPLIERS

COMPLETE IF APPLICABLE TO YOUR WATER RIGHT

Population served by the system: _____ Number of Master Meters: _____

Number of service connections according to their primary type of use: Residential: _____ Commercial: _____

Industrial: _____ Pasture/Feedlot: _____ Other: _____ TOTAL: _____

Please provide a water rate schedule in the space below, or attach a preprinted schedule if available:

Were you forced to limit water use of your customers at any time during the calendar year? Yes _____ No _____

If yes, please explain: _____

D. INDUSTRIAL, POWER OR MINING USE

COMPLETE IF APPLICABLE TO YOUR WATER RIGHT

If fresh water was recirculated, what was the total volume (including blowdown and make-up) in gallons? _____

What quantity of fresh water was consumed and therefore not returned to a wastewater treatment system (public or private) or to a water course (including loss to product, evaporation, etc.) in gallons? _____

Please indicate total annual production for this facility with appropriate units: _____

If known, please provide the Standard Industrial Classification Code: _____

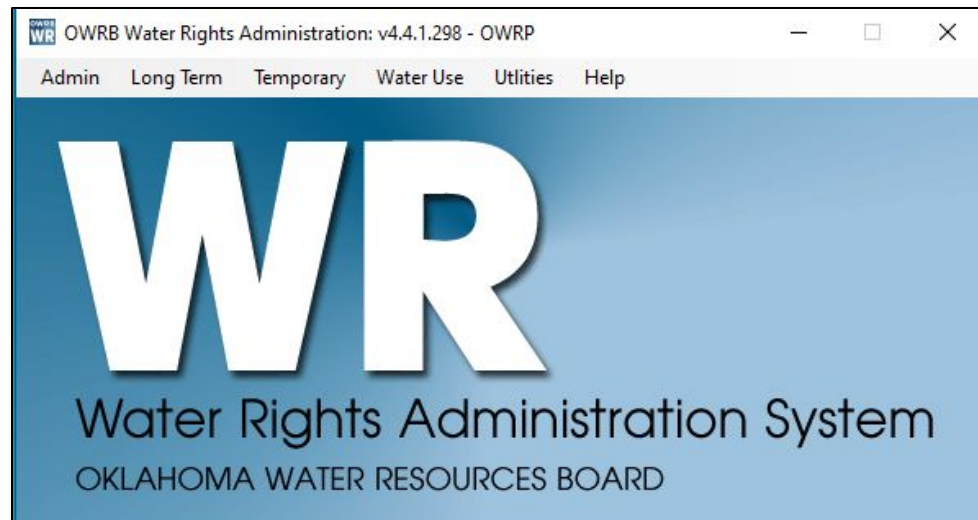
Please indicate the total number of employees at this facility: _____



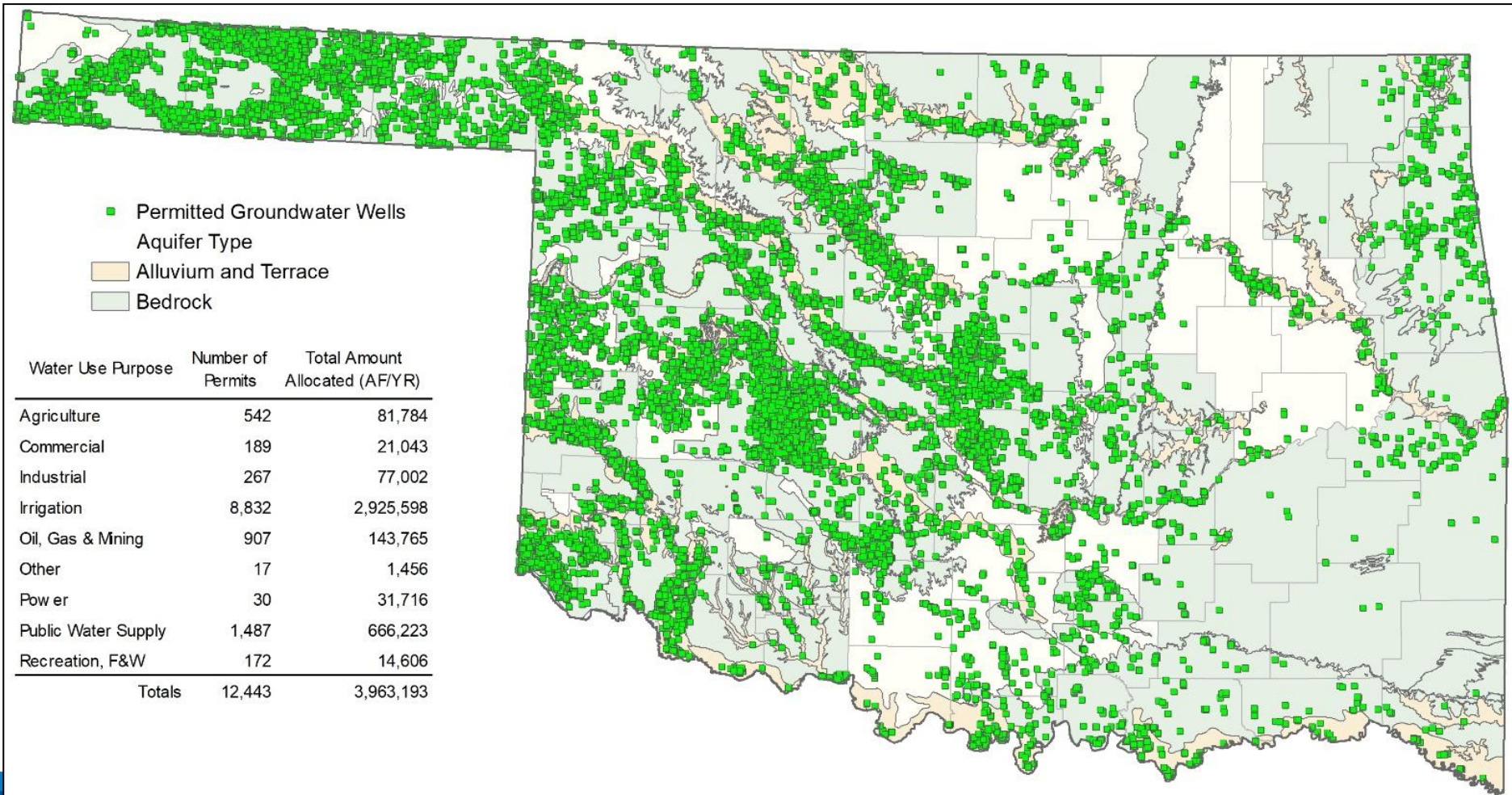
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Water Rights Database Application

- Developed in-house
- Uses Visual Basic.Net 4.0
- Back-end data storage through Oracle 11g R1.
- Crystal Reports
- Data is used to generate water use forms and invoices and interactive ArcGIS maps.



Why Do We Care?

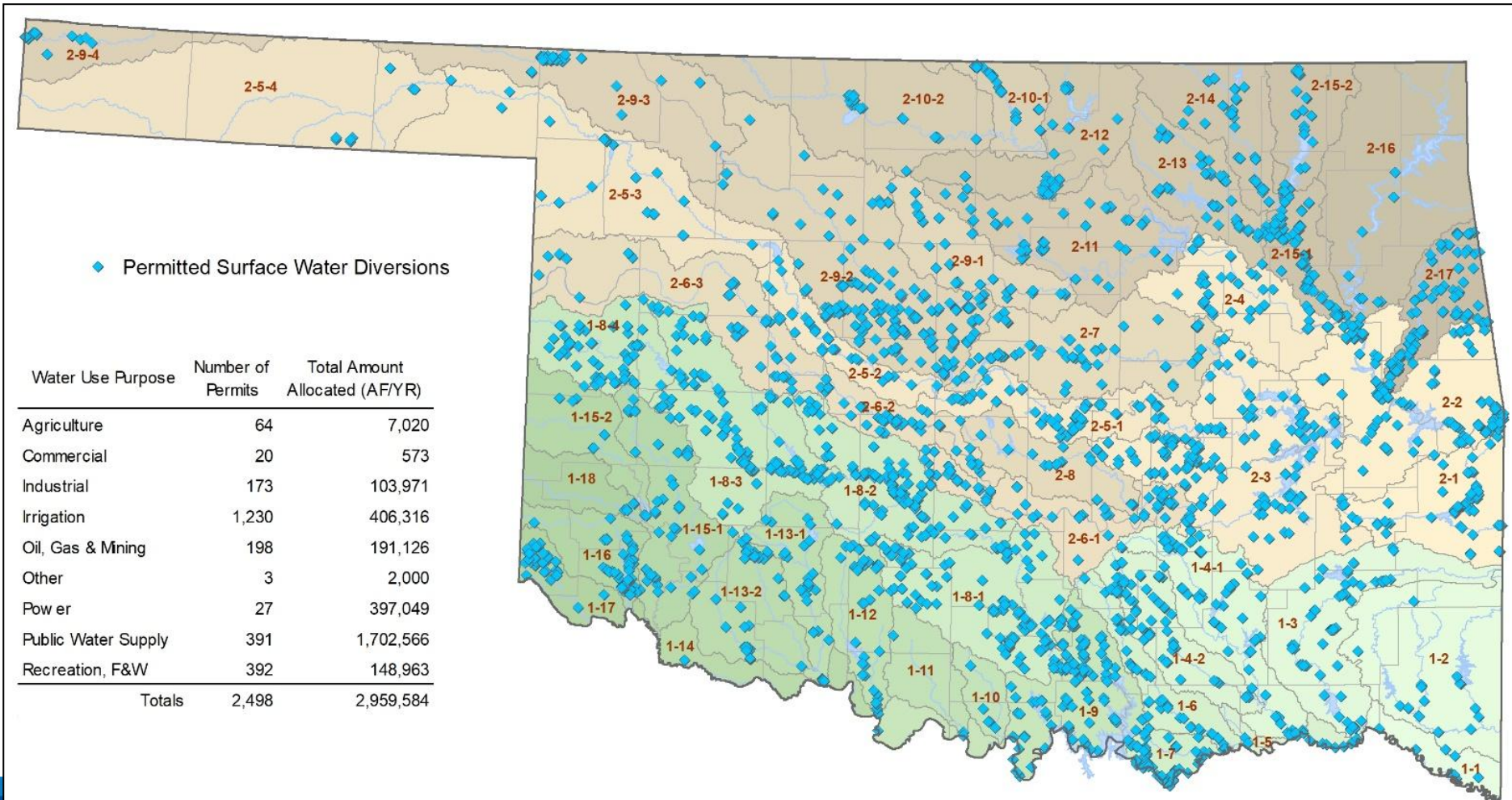


The purpose of this map is to show the relative spatial location of groundwater rights statewide by displaying the permitted groundwater wells. The table contains the use purpose categories, total number of permits, and total amount of water allocated for each of the use categories. For more information about water rights visit the OWRB's home page at <https://www.owrb.ok.gov> 8/2/2022



0 50 Miles

Why Do We Care?



The purpose of this map is to show the relative spatial location of surface water rights statewide by displaying the permitted surface water diversions. The table contains the use purpose categories, total number of permits, and total amount of water allocated for each of the use categories. For more information about water rights visit the OWRB's home page at (<https://www.owrb.ok.gov>) 8/2/2022



0 50 Miles

Water Use Information System Updates



OKLAHOMA
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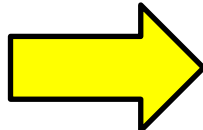
2. Type of system used (please circle):

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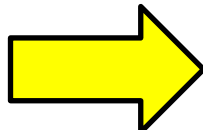
MONTH	SELF-SUPPLIED	MONTH	SELF-SUPPLIED	MONTH	SELF-SUPPLIED
JAN		MAY		SEP	
FEB		JUN		OCT	
MAR		JUL		NOV	
APR		AUG		DEC	
TOTAL GALLONS FOR THE YEAR					



C. CROPS GROWN

Please list the types of crops grown and the number of acres irrigated for each type.

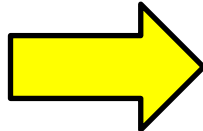
CROP TYPE	ACRES IRRIGATED	CROP TYPE	ACRES IRRIGATED



D. ANIMALS RAISED

Please list the types of animals raised and the number of animal units for each type.

ANIMAL TYPE	ANIMAL UNITS	ANIMAL TYPE	ANIMAL UNITS



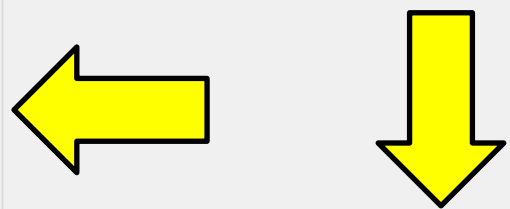
Permit Number: **19730164** Water Type: **Groundwater** Year: **2021**
 Entity ID: **017221** Entity Name: **Hopewell Land LLC**

No Reported Use Insufficient Data No Report Submitted

Monthly Water Use

Month	Self-Supplied	Purchased	Purpose - SIC
January			1 - 0100 - Irrigation (All Crops Except Horticultural)
February	834,178		1 - 0100 - Irrigation (All Crops Except Horticultural)
March	1,459,812		1 - 0100 - Irrigation (All Crops Except Horticultural)
April	1,251,267		1 - 0100 - Irrigation (All Crops Except Horticultural)
May	2,711,080		1 - 0100 - Irrigation (All Crops Except Horticultural)
June	3,962,348		1 - 0100 - Irrigation (All Crops Except Horticultural)
July	4,170,892		1 - 0100 - Irrigation (All Crops Except Horticultural)
August	4,170,892		1 - 0100 - Irrigation (All Crops Except Horticultural)
September	1,251,267		1 - 0100 - Irrigation (All Crops Except Horticultural)
October	625,633		1 - 0100 - Irrigation (All Crops Except Horticultural)
November	417,089		1 - 0100 - Irrigation (All Crops Except Horticultural)
December			1 - 0100 - Irrigation (All Crops Except Horticultural)

Total For Year:



Warning: OVER/UNDER Reported Acre Feet ✕

Total Amount for all Reported Use is >/= to 10% over/under of reported Total Amount on the Allocation Tab. Do you want to proceed?

Calculated Rate

Other Measurement:

Other Units:

Please verify units and amount before continuing

Acres Double Cropped:

Entered Amount:

C: Acres Irrigated:

Acres Irrigated:

Num Irrigations:

Inches Per Application:

Accounting

Date Received: mm/dd/yyyy

Amount Received: \$

Late Fee Paid w/o Use Card
 Late Fee Waived

Waiver justification

Crops

Crop	Acres	Times	Inches
▶ Cotton	19.00		
Wheat	38.00		
* <input type="text"/>			

Permit Number: 20200511

Source: Groundwater

User ID: 018300

Status: Active

User Entry Permit Details Allocation Legal Other Names Permit Conditions Modification Log

Permit Details

Date Filed: 1/6/2020 mm/dd/yyyy

Date issued: 6/8/2020

Date inactive:

County: Johnston

Permit Type: Regular

Ownership Type: Lease

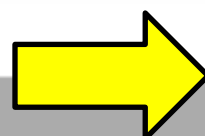
Equal Prop. Share: 0.2

Lease Date: 1/1/9999 mm/dd/yyyy

Aquifer Code:

Source

Aquifer	Basin	Board Approval of M A Y	Equal Proportionate Share	USGS Principal Aquifer
564SMPS - SIMPSON G. ...	150 - Atuckle-Simpson			
567ABCK - ARBUCKLE ...	150 - Atuckle-Simpson			



- Ada-Vancea aquifer - N300AD
- Alluvial aquifers - N100ALLUVL
- Arbuckle-Simpson aquifer - N100
- Blaine aquifer - N400BLAINE
- Central Oklahoma aquifer - N300
- Edwards-Trinity aquifer system - N100
- High Plains aquifer - N100HGH
- Czark Plateaus aquifer system - N300
- Rush Springs aquifer - N300RS
- Other aquifers - N999OT-ER

Out

Save

Permit Number: 20200511

Source: Groundwater

User ID: 018300

Status: Active

User Entry Permit Details Allocation Logs Other Names Permit Conditions Modification Log

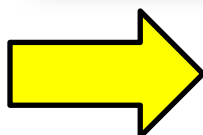
Amounts

Total Amount * A.F. Area Irrigated

Rate: G.P.M.

Allocation*

Amount	Purpose - SIC
4	B 1429 - Crushed and broken stone
	B 1429 - Crushed and broken stone
	G 1442 - Construction sand and gravel
	G 1446 - Industrial sand
	G 8000 - Unknown
	G 4679 - Ice lines (cool surty, others excluding petroleum)
	G 4923 - Gas transmission and distribution
	G 4949 - Mec. commercial business
	G 4961 - Steam supply or heated / cooled air sales
	G 5149 - Mitting & distributing mineral or spring water
	G 5411 - Grocery stores
	G 5541 - Service stations and truck stops, gasoline - retail
	G 5812 - Eating Places
	G 5941 - Sporting Goods Stores & Bicycle Shops
	G 7011 - Hotels, motels, resorts, etc.
	G 7223 - Mec. Personal Services (restroom Operation)
	G 7542 - Car washes, truck washing
	G 7929 - Parks, amusement and recreational areas
	G 8002 - General medical and surgical hospitals
	G 8003 - Psychiatric hospitals
	G 8221 - Elementary and secondary schools
	G 8221 - Colleges, universities and professional schools
	S 8249 - Vocational school
	S 8361 - Orphanage
	S 9223 - Correctional institutions
	S 9621 - Regulation & administration of transportation
	/ 8000 - Unknown
	/ 9921 - Fish hatcheries and processing
	/ 7052 - Sporting and recreational camps
	/ 7053 - Campgrounds
	/ 1111 - indicates non-consumptive use



Permit Number: 20200511

Source: Groundwater

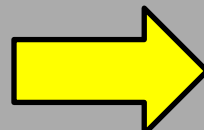
User ID: 018300

Status: Active

User Utility Permit Details Location Legals Other Names Permit Conditions Modification Log

Dedicated Lands

Acres	Qtr	Qtr	Qtr	Qtr	Sec	Twp	Range
10		NW	SE	SW	08	01S	07E
10		NE	SW	SW	08	01S	07E



- 11040001 - CIMARRON HEADWATERS
- 11040002 - UPPER CIMARRON
- 11040006 - UPPER CIMARRON-LIBERAL
- 11040007 - CROCKED
- 11040009 - UPPER CIMARRON-BLUFF
- 11050001 - LOWER CIMARRON-EAGLE CHIEF
- 11050002 - LOWER CIMARRON-SKELETON
- 11050003 - LOWER CIMARRON
- 11060001 - KAW LAKE
- 11060002 - UPPER SALT FORK ARKANSAS
- 11060003 - MEDICINE LODGE
- 11060004 - LOWER SALT FORK ARKANSAS
- 11060005 - CHIKASKA
- 11060006 - BLACK BEAR-RED ROCK
- 11070103 - MIDDLE VERDIGRIS
- 11070105 - LOWER VERDIGRIS
- 11070106 - CANEY
- 11070107 - BIRD
- 11070203 - MIDDLE NEO SHO
- 11070206 - LAKE OF THE CHEROKEES
- 11070207 - SPRING
- 11070208 - ELK
- 11070209 - LOWER NEO SHO
- 11090103 - RITA BLANCA
- 11090106 - MIDDLE CANADIAN-SPRING
- 11090201 - LOWER CANADIAN-DEER
- 11090202 - LOWER CANADIAN-WALNUT
- 11090203 - LITTLE
- 11090204 - LOWER CANADIAN

Well Locations

Status	Qtr	Qtr	Qtr	Sec	Twp	Range	County	Depth
P	NW	SE	SW	08	01S	07E	John...	
P	NE	SW	SW	08	01S	07E	John...	

Quit

Save



Diversion Point Information

(1) Diversion From Stream:

(2) N.R.C.S. Site Number:

Watershed:

(3) Other Reservoir:

on

Reservoir Status:

Date Completed: mm/dd/yyyy

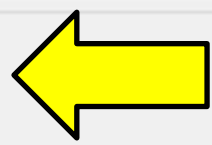
Surface Area:

Capacity:

Diversion Method:

Dam Information

Dam ID:



Name: no value

HUC: no value

NIDID: no value

StateID: no value

Normal Storage: no value

Save

Cancel

Concluding Thoughts



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Water Resources Board

Challenges

- Water use database age and complexity.
- Quality assurance
- Domestic use assumptions
- No framework for reporting per well or per diversion point.
- Municipalities reporting per permit vs full system.
- Compliance – revalidation, cancellation reductions, insufficient data, overuse, etc.



If water was used, fill in the table below. If no water was used, check this box:

You know what is Total Bur^{shit}?! Having to complete this form. You should have NO control over my water rights. Too much

For each purpose listed, indicate the amount of water used in gallons or acre-feet (indicate zero	PURPOSE	AMOUNT IN GALLONS or ACRE-FEET (circle units used)
	Irrigation	

Government

The Future

- Administrative penalty increase (*effective 11/1/2022*).
- Water use questionnaire updates (*forthcoming*).
- Intent-to-Drill (*forthcoming*).
 - Water use database overhaul tied to other departments.
- Online water use reporting (*future*).
 - WISR project generated the business requirements and potential webpage mockups.



Thank You

Questions?

Jason Tutkowski

Environmental Programs Specialist IV

Water Rights Administration Division

Jason.Tutkowski@owrb.ok.gov

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