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GROUND-WATER DATA OF SELECTED TEST HOLES AND WELLS ALONG THE
VERDIGRIS RIVER IN WAGONER AND ROGERS COUNTIES, OKLAHOMA

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Martin Lake

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Lower Arkansas and Verdigris River Valleys - Arkansas and Oklahoma

U.S. Geological Survey

U.S. Army, Corps of Engineers

Cooperative Ground-Water Study

GROUND-WATER DATA OF SELECTED TEST HOLES AND WELLS ALONG THE
VERDIGRIS RIVER IN WAGONER AND ROGERS COUNTIES, OKLAHOMA

By

H. H. Tanaka, D. L. Hart, Jr., and R. K. Knott

U.S. Geological Survey

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INTRODUCTION

The data in this report were collected during the period 1958-64 by the U.S. Geological Survey in cooperation with the U.S. Army, Corps of Engineers, as part of a comprehensive study of the ground-water resources of the alluvium along the Arkansas and Verdigris Rivers between Moffett and Catoosa, Oklahoma (fig. 1). The purpose of this report is to make the hydrologic data obtained during the study of ground water in the alluvium along the Verdigris River in Wagoner and Rogers Counties readily available to the public. The data in this report should be useful in predicting geologic and hydrologic conditions when drilling new wells. Table 1 gives information on the sizes, depths, yields, and other characteristics of wells in the area. The table also provides a key to the additional information for each well site given in tables 2 through 6. Table 2 gives logs of the materials penetrated at test holes and wells in the report area; table 3 gives depths to water measured in wells; table 4 includes chemical analyses of water from wells; table 5 gives laboratory determinations of particle-size distribution of earth samples collected from test holes and wells; and table 6 gives coefficients of permeability and other hydrologic properties of earth samples from selected test holes. Similar data for Sequoyah County, Le Flore-Haskell Counties, and Muskogee County are available in other open-file reports^{1/}.

An interpretive report, "Hydrology of the alluvium of the Arkansas River, Muskogee, Oklahoma, to Fort Smith, Arkansas," by Harry H. Tanaka and Jerrald R. Hollowell will be published as U.S. Geological Survey Water-Supply Paper 1809-T.

^{1/} "Ground-water data of selected test holes and wells along the Arkansas River in Sequoyah County, Oklahoma," by H. H. Tanaka, D. L. Hart, Jr., and R. K. Knott.

"Ground-water data of selected test holes and wells along the Arkansas River in Muskogee County, Oklahoma," by H. H. Tanaka, D. L. Hart, Jr., and R. K. Knott.

"Ground-water data of selected test holes and wells along the Verdigris River in Wagoner-Rogers Counties, Oklahoma," by H. H. Tanaka, D. L. Hart, Jr., and R. K. Knott.

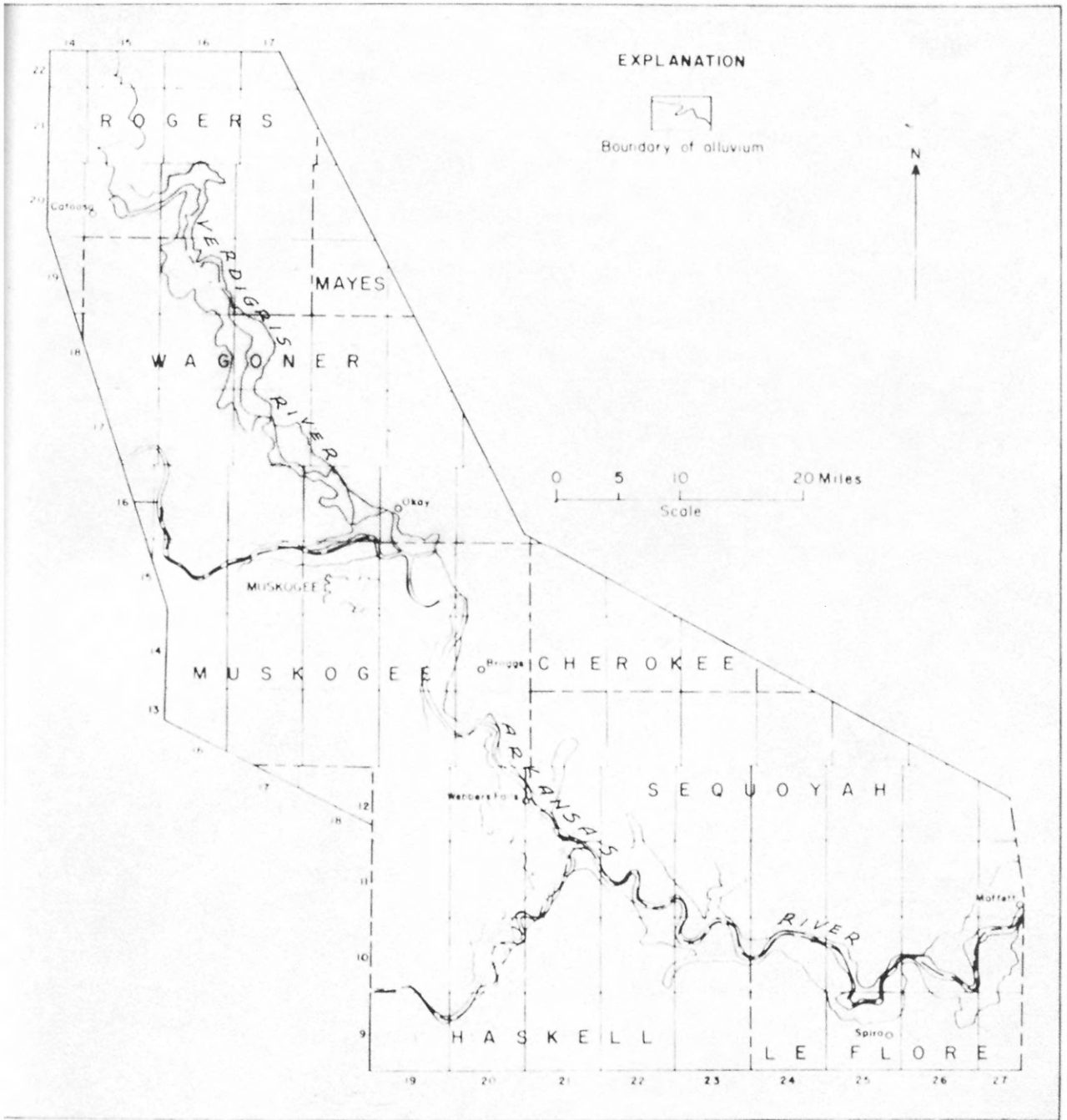


Figure 1.--Map showing the Arkansas and Verdigris River valleys from Moffett to Catoosa with outline of report area in Wagoner and Rogers Counties

WELL-NUMBERING SYSTEM

Test holes and wells in this report are numbered according to their location with respect to the Federal land-survey system used in Oklahoma. The first numeral in the number indicates the township; the second, the range; and the third, the section in which the well is located. The lowercase letters that follow the section number indicate the position of the well within the section; the first letter indicates the quarter section (160-acre tract); the second letter, the quarter-quarter section (40-acre tract); and the third letter, the quarter-quarter-quarter section (10-acre tract). These letters are assigned in a counterclockwise direction, beginning with "a" in the northeast quarter. Within each 10-acre tract the wells are numbered serially, as indicated by the final digit of the number. Thus well 14N-19E-13bcb1 is the first well to be listed in the $NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$ of sec. 13, T. 14 N., R. 19 E. (fig. 2).

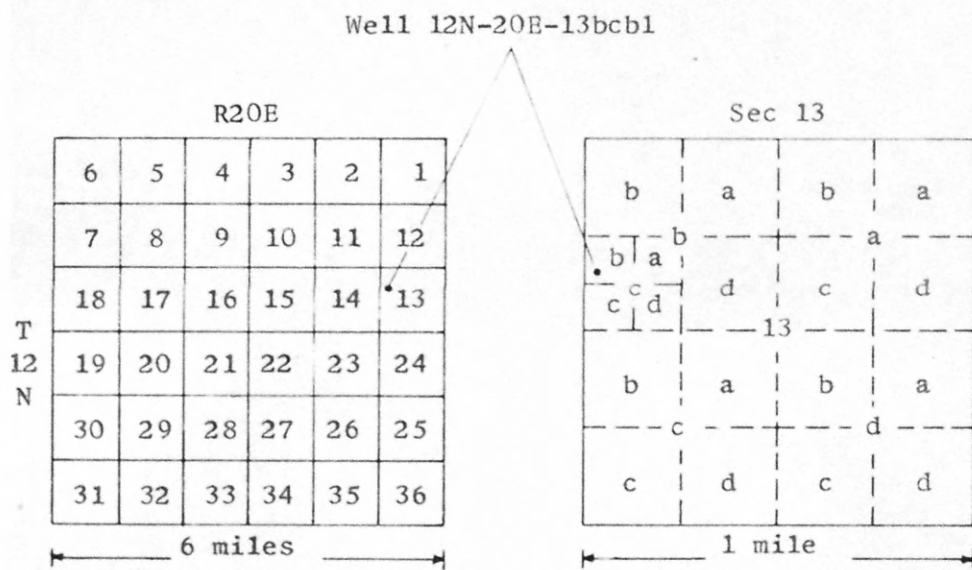


Figure 2.--Well-numbering system

Table 1.. Records of test holes and wells, Wagoner and Rogers Counties

Well number: See text for description of well-numbering system.

Additional data available:

Type of well: Au, augered; Dr, drilled; Dn, driven; Du, dug.

Depth of test hole or well: Measured depth of test hole or well given in feet below land surface; R, reported.

Aquifer: A, alluvium; T, terrace deposit; B, bedrock.

Use: O, observation; D, domestic; S, stock; I, irrigation; Ind, industrial; N, none.

Altitude of land surface: Altitudes obtained by instrumental leveling shown in feet and tenths; altitudes estimated from topographic maps shown in feet only.

Depth to water: Measured depth to water given in feet and tenths, or feet and hundredths below land surface; R, reported.

Remarks: Btt-4, battery of 4 wells (or number shown); D, well destroyed; M, water level measured monthly; Oa, observation well used for aquifer test only--casing removed after test; QWg, quality of water for drinking purpose reported good (QWf, fair; QWp, poor); R, water-level recorder; Th, test hole for geologic information; Wd, water-level measurement discontinued; Yr, reported yield of well.

Well number	Owner or user	Type of well	Depth of well or testhole (feet)	Dia-meter of well (inches)	Depth to bedrock (feet)	Aquifer	Use	Altitude of land surface (feet)	Depth to water (feet)	Date of measurement	Additional data available	Remarks
WAGONER COUNTY												
15N-18E- 3bbb1	US Geol. Survey	Au	27	1½	29	A	O	516.9	.....	.....	L,W,C	.....
5aaa1	do.	Au	33	1½	38	A	O	529.5	.....	.....	L,W	.....
5bda1	do.	Au	26	1½	29	A	O	519.5	.....	.....	L,W	.....
5caa1	do.	Au	21	1½	25	A	O	516.0	.....	.....	L,W	D
6add1	do.	Au	34	1½	34	A	O	525.7	.....	.....	L,W	.....
16N-17E- laaa1	do.	Au	31	1½	35	A	O	516.2	.....	.....	L,W	.....
laaa2	do.	Au	35	...	35	A	N	516.2	.....	.....	L	Th
3bbb1	Glenn Buggs	Du	56	8	..	T	D	.....	49.3	7-31-57	.....	QWg
16N-18E- 3ddd1	US Geol. Survey	Au	24	1½	24	T	O	546.7	.....	.....	L,W	.....
4baa1	do.	Au	18	...	18	T	N	535.8	.....	.....	L	Th
5baa1	do.	Au	30	1½	32	A	O	515.1	.....	.....	L,W	.....
9bbb1	do.	Au	30	1½	30	A	O	516.0	.....	.....	L,W	.....
9dac1	do.	Au	32	1½	32	A	O	515.7	.....	.....	L,W	.....
9ddd1	do.	Dr	31	1½	35	A	O	514.5	.....	.....	L,W,P	.....
10bbb1	V. N. Baker	Dr	110R	6	..	B	D	535.6	.....	.....	W	QWp
11bcc1	US Geol. Survey	Au	27	1½	28	A	O	526.7	.....	.....	L,W,C	.....
11cdd1	H. C. Boling	Du	20	30	..	A	D	522.0	.....	.....	W,C	D
13bba1	US Geol. Survey	Au	22	1½	22	A	O	532.0	.....	.....	L,W	.....
13dda1	do.	Au	9	...	9	T	N	529.2	.....	.....	L	Th
14aba1	do.	Au	42	1½	44	A	O	520.2	.....	.....	L,W,C	.....
15aaa1	do.	Au	34	1½	40	A	O	518.3	.....	.....	L,W,C	.....
15bba1	do.	Au	33	1½	33	A	O	514.3	.....	.....	L,W,C	.....
15ddc1	do.	Dr	35	10	35	A	O	525.4	.....	.....	L,W,P,H	R
16abb1	Roy Elkins	Dr	34	6	..	A	D	530.7	.....	.....	W,C	.....
16abb2	do.	Dr	34	8	..	A	D	530	24.0	6-25-57	.....	QWg
16bbb1	US Geol. Survey	Au	51	1½	62	T	O	544.8	.....	.....	L,W	.....
17cbb1	D. McCullough	Dr	29	7	..	..	D	563	13.4	4-21-59	.....	.....
17cbb2	US Geol. Survey	Au	19	...	19	T	N	562.6	.....	.....	L	Th
21baa1	do.	Au	31	1½	32	T	O	519.3	.....	.....	L,W	.....
22aaa1	do.	Au	31	1½	32	A	O	520.9	.....	.....	L,W	.....
22aaa2	do.	Dr	32	10	32	A	O	521.0	.....	.....	L,W	R
22aab1	E. Highfill	Du	..	48	..	A	D	525	.....	.....	C	.....
22bcb1	US Geol. Survey	Au	38	1½	42	A	O	519.1	.....	.....	L,W	.....
22dad1	do.	Au	34	1½	38	A	O	520.1	.....	.....	L,W	.....
23bba1	do.	Dr	40	10	43	A	O	518.7	.....	.....	L,W,P,H	R
23bdb1	do.	Au	30	1½	37	A	O	520.7	.....	.....	L,W	.....
23cdc1	do.	Dr	37	...	37	A	N	514.5	.....	.....	L,P	Th
23dad1	do.	Au	36	1½	38	A	O	514.7	.....	.....	L,W	.....
24aad1	do.	Au	41	1½	43	A	O	511.2	.....	.....	L,W	.....
26add1	do.	Au	27	1½	27	A	O	550.7	.....	.....	L,W	.....
26dcd1	do.	Dr	84	6	..	T	D	566.3	.....	.....	W	QWg
27bcc1	A. G. Flemons	Du	43	36	..	T	D	570	42.09	9-30-58	.....	.....
27cdd1	do.	Dr	68	5	..	T	D	583.1	.....	.....	W	.....
28aaa1	US Geol. Survey	Au	41	1½	42	T	O	574.2	.....	.....	L,W	.....
28bda1	do.	Au	51	1½	82	T	O	611.0	.....	.....	L,W	.....
28dad1	do.	Au	51	7	..	T	D	597.5	.....	.....	W	.....
28dad2	US Geol. Survey	Au	67	...	67	T	N	596.0	.....	.....	L	Th
33cad1	do.	Au	31	1½	31	A	O	522.6	.....	.....	L,W,C	.....
35bcb1	do.	Au	20	1½	29	A	O	511.7	.....	.....	L,W	.....
36aab1	W. Thomson	Dr	65	10	..	B	O	575.7	.....	.....	W	.....
36aab2	US Geol. Survey	Au	37	...	37	A	N	582.3	.....	.....	L	Th
36bbb1	do.	Au	51	1½	52	T	O	579.8	.....	.....	L,W	.....
16N-19E- 7ccc1	do.	Au	14	...	14	T	N	529.2	.....	.....	L	Th
19ccc1	do.	Au	35	1½	35	A	O	515.8	.....	.....	L,W	.....
19cdd1	do.	Dr	33	...	33	A	N	515.3	.....	.....	L,P,H	Th
20baa1	do.	Au	21	1½	23	A	O	536.3	.....	.....	L,W	.....

Table --Record of test holes and wells, Wagoner and Rogers Counties

Well number	Owner or user	Type of well	Depth of well or testhole (feet)	Diameter of well (inches)	Depth to bedrock (feet)	Aquifer	Use	Altitude of land surface (feet)	Depth to water (feet)	Date of measurement	Additional data available	Remarks
WAGONER COUNTY--Continued												
16N-19E-20dbc1	.....	Du	..	48	..	T	N	531.4	.....	.....	W	.....
29baal	Spencer Butler	Dr	76R	6	76R	T	D	568.8	31.3	8- 7-57	.....	.....
29baal	S. R. Koch	Dr	..	..	..	T	D	558.0	41.8	8- 7-57	.....	.....
30abb1	US Geol. Survey	Au	32	1 1/2	37	A	O	515.1	.....	.....	L,W	.....
31abd1	.....	Du	25	36	..	A	N	515.3	.....	.....	W	.....
31ccd1	US Geol. Survey	Au	32	1 1/2	35	A	O	514.4	.....	.....	L,W	.....
32dcc1	Link Johnson	Du	..	30	..	A	S	520.3	.....	.....	W	.....
32dcc2	US Geol. Survey	Au	32	1 1/2	32	A	O	505.5	.....	.....	L,W	.....
33bcc1	do.	Au	32	1 1/2	39	A	O	519.2	.....	.....	L,W,C	.....
33ccc1	B. Hayes	Du	..	36	..	A	D	517	15.2	8- 7-57	.....	QWg
33ddd1	US Geol. Survey	Au	25	..	25	T	N	518.5	.....	.....	L	Th
34ccb1	S. L. Nash	Du	..	36	..	A	D	522.9	13.4	8-13-57	.....	.....
34dcd1	US Geol. Survey	Au	34	..	34	T	N	505.9	.....	.....	L	Th
17N-17E- 2ccc1	do.	Au	32	..	32	T	N	562.5	.....	.....	L	Th
4aaa1	do.	Au	47	..	47	T	N	580.5	.....	.....	L	Th
4ccc1	do.	Au	38	1 1/2	38	A	O	520.8	.....	.....	L,W	.....
5aaa1	.....	Du	..	48	..	T	N	549.5	.....	.....	W	.....
5bcc1	US Geol. Survey	Au	28	1 1/2	28	A	O	531.0	.....	.....	L,W	.....
7dbc1	do.	Au	32	1 1/2	38	A	O	524.9	.....	.....	L,W	.....
7ddc1	do.	Dr	45	1 1/2	45	A	O	529.7	.....	.....	L	Oa
8bbb1	do.	Dr	40	1 1/2	42	A	O	525.5	.....	.....	L,W,P,H	.....
9ccc1	do.	Au	36	1 1/2	42	A	O	526.3	.....	.....	L,W,C	M
10cbc1	do.	Au	22	1 1/2	31	A	O	522.1	.....	.....	L,W,C	M
15baal	do.	Au	48	..	48	T	N	561.7	.....	.....	L	Th
15dad1	do.	Au	38	1 1/2	38	T	O	543.6	.....	.....	L,W	.....
16cab1	do.	Au	25	1 1/2	26	A	O	534.1	.....	.....	L,W	.....
16ccc1	do.	Au	31	1 1/2	41	A	O	532.0	.....	.....	L,W,C	.....
17acc1	do.	Au	43	1 1/2	43	A	O	534.7	.....	.....	L,W,C	M
18aab1	do.	Dr	42	10	42	A	O	527.4	.....	.....	L,W,P,H	Pumped well for aquifer test; R
18aab2	do.	Dr	45	1 1/2	45	A	O	529.0	.....	.....	L	Oa
18dba1	do.	Au	30	1 1/2	36	A	O	522.0	.....	.....	L,W,P	D
19ada1	do.	Au	31	1 1/2	36	A	O	522.1	.....	.....	L,W,C	.....
20adb1	do.	Au	31	1 1/2	38	A	O	529.2	.....	.....	L,W	.....
20dbc1	do.	Au	33	1 1/2	42	A	O	528.8	.....	.....	L,W	.....
21aaa1	do.	Au	41	1 1/2	41	A	O	523.9	.....	.....	L,W	.....
21dcd1	do.	Au	17	1 1/2	17	A	O	526.9	.....	.....	L,W	.....
22ada1	do.	Au	35	1 1/2	36	A	O	525.5	.....	.....	L,W	.....
23ccb1	M. Ramsey	Dr	41	6	..	A	O	524.5	22.18	1- 8-58	.....	.....
23cab1	B. Stacey	Du	22	30	..	A	D	524.3	12.28	1- 8-58	.....	QWp
24bbb1	US Geol. Survey	Au	24	1 1/2	24	A	O	517.6	.....	.....	L,W	.....
24ccc1	do.	Au	32	1 1/2	35	A	O	518.7	.....	.....	L,W	.....
24cdd1	do.	Dr	26	1 1/2	29	A	O	516.5	.....	.....	L,W,P	.....
24dcd1	do.	Au	29	1 1/2	29	A	O	517.9	.....	.....	L,W	.....
26bbb1	.....	Du	..	36	..	A	O	524.4	.....	.....	W	.....
26cbc1	B. Stacey	Du	23	18	..	A	D	522	9.38	1- 8-58	.....	.....
26cca1	do.	Du	31	30	..	A	S	523.0	16.06	1- 8-58	.....	QWp
26ccb1	US Geol. Survey	Au	34	1 1/2	34	A	O	518.8	.....	.....	L,W,P	.....
27ada1	.....	Du	..	..	..	A	D	519	.....	.....	C	.....
27bca1	US Geol. Survey	Dr	18	1 1/2	18	A	O	521.7	.....	.....	L,W,P	.....
27dab1	B. Stacey	Dr	63	8	..	A	O	520.2	.....	.....	W,C	.....
28bba1	Ed Parrish	Dr	33	5	..	A	D	548.7	.....	.....	W	QWp
32aaa1	US Geol. Survey	Au	15	..	15	T	N	550.9	.....	.....	L	Th
33aaa1	do.	Au	31	1 1/2	34	A	O	518.6	.....	.....	L,W	.....
33aac1	Mr. Ellis	Du	16	24	..	A	S	521.9	.....	.....	W	.....
33dad1	W. J. Harrison	Dr	101	6	..	B	N	532	27.67	10-16-57	.....	.....
34abb1	US Geol. Survey	Au	31	1 1/2	37	A	O	519.6	.....	.....	L,W	.....
34bba1	do.	Dr	38	..	38	A	N	517.5	.....	.....	L,P,H	Th
34cbc1	W. J. Harrison	Dr	36	6	36	A	S	520	10.58	10-16-57	.....	QWp, iron taste
35aab1	US Geol. Survey	Au	31	1 1/2	31	A	O	517.0	.....	.....	L,W	.....
35aab2	do.	Au	30	..	30	A	N	516.9	.....	.....	L	Th
36aab1	do.	Au	26	1 1/2	27	A	O	521.7	.....	.....	L,W	.....
36daal	do.	Au	31	1 1/2	36	A	O	517.1	.....	.....	L,W	.....
36ddd1	do.	Dr	36	1 1/2	37	A	O	515.1	.....	.....	L,W,P,H	.....
17N-18E-19bcb1	.....	Dr	56	7	..	T	N	544.1	25.04	7-11-57	.....	.....
19bcb2	US Geol. Survey	Au	31	..	31	A	N	549.2	.....	.....	L	Th
20ccc1	do.	Au	30	1 1/2	31	T	O	554.1	.....	.....	L,W	.....
31aaa1	do.	Au	40	1 1/2	48	T	O	549.0	.....	.....	L,W	.....
31bba1	J. Summers	Du	17	24	..	T	D	530.4	.....	.....	W	QWg
31bba2	US Geol. Survey	Au	25	..	25	T	N	531.6	.....	.....	L	Th
31dda1	do.	Au	34	1 1/2	35	A	O	516.2	.....	.....	L,W	D
31ddc1	do.	Au	32	1 1/2	35	A	O	515.1	.....	.....	L,W	.....
32baal	Eugene Thomas	Dr	78	6	..	B	N	552.5	26.53	12-20-57	.....	.....
32bbb1	do.	Dr	100R	6	..	B	D	549	.....	.....	.....	QWg
32cbb1	do.	Dr	56	10	..	A	N	516.9	.....	.....	W	Irrigation well; pump removed
32ccb1	do.	Dr	35	10	35	A	I	516	22.28	12-20-57	.....	15 hp Turbine pump

Table 1.--Record of test holes and wells, Wagoner and Rogers Counties

Well number	Owner or user	Type of well	Depth of well or testhole (feet)	Diameter of well (inches)	Depth to bedrock (feet)	Aquifer	Use	Altitude of land surface (feet)	Depth to water (feet)	Date of measurement	Additional data available	Remarks
WAGONER COUNTY--Continued												
17N-18E-32ccb3	US Geol. Survey	Au	35	1½	35	A	O	516	19.00	11-19-60	L	Oa
32ccb4	do.	Au	33	1½	35	A	O	516	19.45	11-19-60	L	Oa
18N-16E- 1aaa1	.....	Du	26	30	..	A	S	540.1	.....	.....	W	.....
11daa1	US Geol. Survey	Au	26	1½	29	A	O	540.1	.....	.....	L,W	.....
12aaa1	M. Herndon	Dr	56	6	..	B	D	540.9	19.37	3-20-58	.....	QWg; Yr. small
12aaa2	US Geol. Survey	Dr	31	1½	32	A	O	540.3	.....	.....	L,W,P	.....
12abb1	M. Terry	Dr	32	8	..	A	S	540.0	.....	.....	W,C	QWp
12abb2	US Geol. Survey	Au	33	..	33	A	N	545.1	.....	.....	L	Th
12adb1	George Hay	Dr	48	1½	..	A	S	535	20R	3-20-48	.....	.....
12bbb1	G. Holmes	Du	23	36	..	A	S	559.1	.....	.....	W	QWp
12bbb2	do.	Dr	..	6	..	A	D	555	.....	.....	.....	QWg
12dcc1	R. Williams	Dr	44	6	..	A	D	535	24.24	3-20-58	.....	QWp; Yr. good
12d-c2	do.	Du	28	36	..	A	S	535	23.45	3-20-58	.....	.....
13aab1	J. Secrest	Dr	32	48	33	A	D	534.6	.....	.....	W	QWg
13bbb1	US Geol. Survey	Au	41	1½	42	A	O	533.4	.....	.....	L,W,P	.....
13bcc1	do.	Au	31	1½	36	A	O	532.2	.....	.....	L,W	.....
13daa1	do.	Au	31	1½	36	A	O	531.5	.....	.....	L,W	D
13daa2	do.	Dr	36	1½	37	A	O	531.5	.....	.....	L,W,P	Replaces well 13daa1
14baa1	do.	Au	36	1½	42	A	O	537.3	.....	.....	L,W	.....
14ccc1	W. Mantooth	Du	25	36	..	A	N	571.9	.....	.....	W	D
15ada1	L. Keel	Du	20	..	..	A	S	543.0	6.86	3-20-58	.....	Alluvium of Coal Creek; QWg
23bbb1	V. Irving	Du	26	36	..	T	S	558.8	.....	.....	.....	Th
18N-17E- 3ccc1	US Geol. Survey	Au	9	..	9	T	N	584.0	.....	.....	L	Th
6aad1	do.	Au	45	1½	46	A	O	539.8	.....	.....	L,W	.....
6cbb1	do.	Au	45	1½	48	A	O	540.8	.....	.....	L	D
6cbb2	do.	Dr	50	1½	50	A	O	540.8	.....	.....	L,W,P,H	Replaces well 6cbb1
6cbc1	V. Wofford	Du	20	36	..	A	D	542.1	12.27	7-10-57	.....	.....
7dcc1	F. Higgins	Du	27	24	..	A	D	539.3	.....	.....	W	D
8bbb1	US Geol. Survey	Au	36	1½	44	A	O	535.4	.....	.....	L,W	.....
9bcd1	do.	Au	50	1½	50	A	O	540.3	.....	.....	L,W	.....
10ccc1	do.	Au	19	1½	19	T	O	575.0	.....	.....	L,W	.....
11ddd1	.....	Du	49	36	..	T	N	602.6	29.55	10-16-57	.....	.....
16bbb1	US Geol. Survey	Au	47	1½	47	A	O	539.3	.....	.....	L,W	D
17daa1	do.	Dr	41	1½	41	A	O	533.7	.....	.....	L,W,P,H	.....
18bbb1	Tuft Hay	Dr	36	6	..	A	D	533.8	.....	.....	W	QWp
21cdc1	J. Meeks	Du	20	30	..	A	D	538.4	.....	.....	W	.....
21ddd1	US Geol. Survey	Au	38	..	38	A	N	565.3	.....	.....	L	Th
28ccc1	.....	Du	..	..	..	T	N	570.5	.....	.....	W	.....
29aba1	US Geol. Survey	Au	30	1½	30	A	O	546.1	.....	.....	L,W	.....
29cbc1	do.	Au	29	1½	29	A	O	547.7	.....	.....	L,W	.....
29dcc1	do.	Au	25	1½	25	A	O	538.6	.....	.....	L,W	.....
30bab1	do.	Au	31	1½	35	A	O	528.4	.....	.....	L,W	.....
31daa1	do.	Au	26	1½	28	A	O	536.6	.....	.....	L,W	.....
32cdd1	.....	Au	17	..	17	A	N	528.0	.....	.....	L	Th
ROGERS COUNTY												
19N-16E- 4bba1	.....	Du	20	36	..	A	S	554.7	.....	.....	W,C	M
4rdd1	US Geol. Survey	Au	40	1½	40	A	O	548.6	.....	.....	L,W	.....
WAGONER COUNTY												
5aaa1	Paul Walters	Dr	56	6	..	A	O	555.6	.....	.....	W,C	M: QWp
5aaa3	US Geol. Survey	Au	59	..	59	A	N	557.2	.....	.....	L,P	Th
5aba1	do.	Au	41	1½	49	A	O	549.5	.....	.....	L,W,C	M
5baa1	do.	Au	28	1½	39	A	O	548.9	.....	.....	L,W,C,P	M
5bba1	do.	Au	31	1½	49	A	O	550.3	.....	.....	L,W,C	M
5ccc1	do.	Au	36	1½	46	A	O	552.2	.....	.....	L,W,C	.....
8aad1	do.	Au	42	1½	52	A	O	551.9	.....	.....	L,W	.....
ROGERS COUNTY												
9aaa1	do.	Au	25	1½	25	A	O	549.6	.....	.....	L,W	.....
WAGONER COUNTY												
9ccc1	do.	Dr	38	1½	41	A	O	546.3	.....	.....	L,W,P,H	.....
9cdc1	R. Claxton	Dr	35	6	..	A	D	551.8	.....	.....	W	.....
14ccc1	US Geol. Survey	Au	41	1½	44	A	O	547.8	.....	.....	L,W	.....
15aad1	do.	Au	30	1½	51	A	O	549.1	.....	.....	L,W	.....
15cbc1	do.	Dr	50	..	50	A	N	547.3	.....	.....	L,P	Th
16baa1	Mr. Cox	Dr	43	5	..	A	S	550	25.62	10-11-58	.....	D
16daa1	.....	Dr	43	5	..	A	D	547.2	.....	.....	W	.....
17aab1	US Geol. Survey	Au	44	..	44	A	N	549.3	.....	.....	L	Th
17aba1	.....	Du	45	48	..	A	N	548.3	.....	.....	W	.....

Table 1.--Record of test holes and wells, Wagoner and Rogers Counties

Well number	Owner or user	Type of well	Depth of well or testhole (feet)	Diameter of well (inches)	Depth to bedrock (feet)	Aquifer	Use	Altitude of land surface (feet)	Depth to water (feet)	Date of measurement	Additional data available	Remarks
WAGONER COUNTY--Continued												
19N-16B- 17dcc1	US Geol. Survey	Dr	47	...	47	A	N	544.1	.....	.....	L,P,H	Th
18aaa1	do.	Au	41	1 1/2	49	A	O	547.7	.....	.....	L,W	.....
20aaa1	do.	Au	42	1 1/2	44	A	O	543.2	.....	.....	L,W	.....
20bbb1	do.	Au	41	1 1/2	50	A	O	545.8	.....	.....	L,W	.....
20cdd1	do.	Dr	52	1 1/2	53	A	O	546.4	.....	.....	L,W,P	.....
20ddd1	do.	Au	42	1 1/2	47	A	O	541.2	.....	.....	L,W	.....
22bbb1	.....	Dr	33	5	..	A	S	546.9	.....	.....	W,C	.....
22ccc1	US Geol. Survey	Au	41	1 1/2	43	A	O	541.2	.....	.....	L,W,P	.....
22dcc1	do.	Au	44	1 1/2	44	A	O	543.7	.....	.....	L,W	D
23abb1	do.	Dr	52	1 1/2	53	A	O	547.9	.....	.....	L	Oa
23abb2	do.	Dr	52	1 1/2	53	A	O	549.6	.....	.....	L,P,H	Oa
23abb3	do.	Dr	53	10	53	A	O	547.7	.....	.....	L,W	Pumped well for aquifer test; R
23abb4	do.	Dr	52	1 1/2	53	A	O	548.0	.....	.....	L	Oa
23acc1	do.	Au	46	1 1/2	51	A	O	545.8	.....	.....	L,W	.....
26baa1	do.	Au	36	1 1/2	44	A	O	539.0	.....	.....	L,W	D
26cda1	do.	Dr	44	10	47	A	O	539.3	.....	.....	L,W,P,H	Pumped well for aquifer test; R
26cda2	do.	Dr	48	1 1/2	48	A	O	540.1	.....	.....	L	Oa
26cda3	do.	Dr	48	1 1/2	48	A	O	539.7	.....	.....	L	Oa
26cdd1	do.	Au	36	1 1/2	38	A	O	536.7	.....	.....	L,W	.....
27dcc1	do.	Au	31	1 1/2	43	A	O	540.0	.....	.....	L,W	.....
28caa1	.....	Dr	56	6	..	A	N	570.5	.....	.....	W	.....
28ccc1	US Geol. Survey	Au	29	...	29	A	N	543.7	.....	.....	L	Th
29ccb1	M. Gilbert	Du	22	48	..	A	N	548.9	.....	.....	W	.....
29ccb2	US Geol. Survey	Au	37	...	37	A	N	549.0	.....	.....	L	Th
30aaa1	do.	Au	31	1 1/2	37	A	O	546.4	.....	.....	L,W,C	.....
30acb1	Mr. Coppage	Du	18	36	..	T	S	.....	13.19	3- 7-58	.....	.....
30cbb1	Ralph Self	Dr	45	8	..	T	S	.....	11.55	3- 7-58	.....	QWg, soft, slight iron taste
30ccb2	do.	Du	30	40	..	T	D	560.4	.....	.....	W	QWg, iron taste
30ddd1	V. Hewitt	Dr	23	6	..	A	D	548.8	4.75	3-17-58	.....	.....
33bad1	.....	Dr	24	6	..	T	D	582.7	7.90	1- 3-58	.....	.....
33bbb1	US Geol. Survey	Au	30	...	30	A	N	544.1	.....	.....	L	Th
36bdb1	do.	Au	36	1 1/2	52	A	O	544.2	.....	.....	L,W	.....
ROGERS COUNTY												
19N-17E-30bcb1	E. Ludlow	Du	37	30	..	A	D	561.7	33.86	7-10-57	.....	.....
31cdd1	US Geol. Survey	Au	30	1 1/2	32	A	O	545.3	.....	.....	L,W	D
32ddd1	do.	Au	8	...	8	T	N	573.7	.....	.....	L	Th
34ccc1	do.	Au	25	...	25	T	N	606.7	.....	.....	L	Th
20N-15E- 4cdd1	do.	Au	42	1 1/2	43	A	O	570.2	.....	.....	L,W	.....
9cac1	do.	Au	27	1 1/2	29	A	O	566.7	.....	.....	L,W	.....
10ccc1	V. Hicks	Dr	21	6	..	A	N	565.8	10.00	8-20-57	.....	.....
10cdd1	US Geol. Survey	Au	30	1 1/2	30	A	O	563.5	.....	.....	L,W	M
11cbc1	C. A. Lewis	Dr	50	6	..	A	N	588.4	27.72	6-19-57	.....	.....
15aaa1	Lee Reavis	Dr	22	6	..	A	N	566.3	.....	.....	W	.....
15bbb1	V. Hicks	Dr	..	6	..	A	N	565.4	.....	.....	W	.....
15cdd1	US Geol. Survey	Au	49	1 1/2	49	A	O	564.9	.....	.....	L,W,P	.....
16aba1	E. Gray	Du	23	60	..	A	N	566.6	.....	.....	W	M
16add1	US Geol. Survey	Au	42	1 1/2	45	A	O	562.1	.....	.....	L,W	.....
16ddd1	.....	Dr	34	5	..	A	N	569.2	31.66	10- 8-58	.....	.....
17aaa1	Mr. Brown	Dr	35	6	..	A	N	570.8	.....	.....	W,C	D
17daa1	George Smith	Dr	51	6	..	A	D	572.6	5.48	7- 9-57	.....	QWp
17daa2	do.	Dr	66	6	..	B	N	560	17.63	7- 9-57	.....	.....
22add1	Mr. Robinson	Dr	18	6	..	A	N	561	6.22	7- 9-57	.....	.....
22dad1	US Geol. Survey	Au	42	1 1/2	51	A	O	563.6	.....	.....	L,W	.....
23bbb1	do.	Au	45	1 1/2	45	A	O	559.8	.....	.....	L,W	.....
23cbb1	do.	Dr	46	1 1/2	46	A	O	560.3	.....	.....	L,W,P,H	.....
24aaa1	do.	Dr	50	...	50	A	N	557.9	.....	.....	L,P,H	Th
24adb1	Mr. Bacon	Du	28	36	..	A	S	564.3	21.87	10- 8-58	.....	.....
24baa1	US Geol. Survey	Au	35	1 1/2	35	A	O	557.7	.....	.....	L,W	.....
24cbb1	do.	Au	42	1 1/2	48	A	O	560.6	.....	.....	L,W	.....
20N-16E- 4dcb1	do.	Au	40	1 1/2	40	A	O	554.8	.....	.....	L,W	D
5dac1	do.	Au	49	1 1/2	49	A	O	555.9	.....	.....	L,W	D
7dca1	do.	Au	29	1 1/2	29	A	O	567.3	.....	.....	L,W	.....
8bbb1	do.	Au	38	1 1/2	38	A	O	556.8	.....	.....	L,W,P	.....
8cdc1	do.	Au	42	1 1/2	52	A	O	560.2	.....	.....	L,W	.....
8ddd1	do.	Dr	48	1 1/2	50	A	O	560.4	.....	.....	L,W,P,H	.....
9cdb1	do.	Au	41	1 1/2	59	A	O	561.3	.....	.....	L,W	.....
16cdb1	do.	Au	55	1 1/2	56	A	O	557.2	.....	.....	L,W	.....
16dcd1	do.	Au	41	1 1/2	57	A	O	558.0	.....	.....	L,W	.....
17aac1	do.	Au	41	1 1/2	50	A	O	558.4	.....	.....	L,W	D
18adb1	do.	Au	42	1 1/2	42	A	O	554.6	.....	.....	L,W	.....
18bbb1	.....	Dr	32	6	..	T	N	593	27.87	7- 9-57	.....	.....
18cbc1	US Geol. Survey	Au	31	1 1/2	31	A	O	556.3	.....	.....	L,W	.....
19bbc1	do.	Au	42	1 1/2	50	A	O	561.3	.....	.....	L,W	.....
20aac1	do.	Au	50	1 1/2	51	A	O	553.1	.....	.....	L,W	.....
20abd1	do.	Dr	59	...	59	A	N	554.8	.....	.....	L,P,H	Th
20ddd1	do.	Au	48	1 1/2	48	A	O	556.0	.....	.....	L,W	.....
32aba1	do.	Au	51	1 1/2	55	A	O	553.5	.....	.....	L,W	.....
33cdc1	do.	Au	31	1 1/2	37	A	O	558.8	.....	.....	L,W,C	M

Table 2.--Logs of test holes and wells

Wagoner County

15N-18E-3bbb1. Surface altitude, 516.9 ft.

	Thickness (feet)	Depth (feet)
Sand, very fine to fine, silty-----	12	12
Sand, fine to medium; gravel, fine-----	5	17
Sand, fine to coarse; gravel, fine to medium-----	12	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Wagoner County

15N-18E-5aaa1. Surface altitude, 529.5 ft.

	Thickness (feet)	Depth (feet)
Sand, very fine to fine-----	7	7
Sand, fine to medium-----	25	32
Sand, fine to very coarse; gravel, fine-----	6	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

15N-18E-5bdal. Surface altitude, 519.5 ft.

	Thickness (feet)	Depth (feet)
Sand, fine to medium-----	7	7
Sand, fine to coarse-----	10	17
Sand, very fine to very coarse; gravel, fine-----	12	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Wagoner County

15N-18E-5caal. Surface altitude, 516.0 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	7	7
Sand, very fine to fine-----	5	12
Sand, very fine to medium-----	5	17
Sand, very fine to very coarse; gravel, fine-----	8	25
Bedrock-----		25

Table 2.--Logs of test holes and wells

Wagoner County

15N-18E-6add1. Surface altitude, 525.7 ft.

	Thickness (feet)	Depth (feet)
Silt; clay-----	7	7
Sand, very fine; silt-----	5	12
Sand, very fine to fine-----	5	17
Sand, fine to medium-----	5	22
Sand, very fine to very coarse-----	10	32
Sand, fine to very coarse; gravel, fine-----	.2	34
Bedrock-----		34

Table 2.--Logs of test holes and wells

Wagoner County

16N-17E-1aaa1. Surface altitude, 516.2 ft.

	Thickness (feet)	Depth (feet)
Clay, brown; silt-----	12	12
Clay; sand, very fine; silt-----	5	17
Clay; sand, fine; silt-----	5	22
Sand, fine to medium; silt-----	5	27
Sand, medium; silt-----	5	32
Sand, coarse; silt-----	3	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

16N-17E-1aaa2. Surface altitude, 516.2 ft.

	Thickness (feet)	Depth (feet)
Clay-----	17	17
Clay, silty-----	5	22
Sand, very fine, clayey-----	5	27
Sand, very fine to fine, silty-----	8	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-3ddd1. Surface altitude, 546.7 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	7	7
Sand, very fine; silt, clayey-----	10	17
Sand, very fine to fine-----	7	24
Bedrock-----		24

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-4baal. Surface altitude, 535.8 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	7	7
Sand, very fine to fine, silty-----	5	12
Sand, very fine, silty; some gravel-----	6	18
Bedrock-----		18

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-5baa1. Surface altitude, 515.1 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	17	17
Silt; sand, very fine-----	5	22
Sand, very fine; silt-----	5	27
Sand, very fine to fine-----	5	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-9bbb1. Surface altitude, 516.0 ft

	Thickness (feet)	Depth (feet)
Clay, silty-----	12	12
Silt, clayey-----	5	17
Sand, very fine to medium-----	3	30
Bedrock-----		30

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-9dacl. Surface altitude, 515.7 ft.

	Thickness (feet)	Depth (feet)
Clay-----	12	12
Silt, clayey-----	5	17
Sand, fine; clay-----	10	27
Sand, fine to medium; clay-----	5	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-9ddd1. Surface altitude, 514.5 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	15	15
Gravel; sand, medium-----	10	25
Sand, medium to very coarse; gravel-----	10	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-11bccl. Surface altitude, 526.7 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	17	17
Clay, silty; sand, very fine-----	7	24
Sand, very fine to fine (gravel reported)-----	4	28
Bedrock-----		28

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-13bbal. Surface altitude, 532.0 ft.

	Thickness (feet)	Depth (feet)
Silt; clay-----	12	12
Silt, clayey; sand, very fine-----	10	22
Bedrock-----		22

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-13dda1. Surface altitude, 529.2 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	9	9
Bedrock-----		9

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-14abal. Surface altitude, 520.2 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	17	17
Sand, very fine to fine-----	5	22
No sample-----	5	27
Sand, very fine to fine-----	3	30
Sand, fine; gravel-----	2	32
Sand, very fine to fine-----	12	44
Bedrock-----		44

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-15aaa1. Surface altitude, 518.3 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	22	22
Clay, silty; sand, very fine-----	18	40
(Gravel reported)-----	27	32
Bedrock-----		40

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-15bbal. Surface altitude, 514.3 ft.

	Thickness (feet)	Depth (feet)
lay; silt-----	22	22
ilt; sand-----	7	29
and, fine to very coarse; gravel, fine to coarse-----	4	33
edrock-----		33

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-15ddc1. Surface altitude, 525.4 ft.

	Thickness (feet)	Depth (feet)
Silt-----	8	8
Silt; sand, very fine to fine, clayey; gravel-----	8	16
Silt, clayey; sand, very fine-----	15	31
Sand, very fine to very coarse; gravel-----	3	34
Bedrock-----		34

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-16bbb1. Surface altitude, 544.8 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	12	12
Silt, clayey-----	5	17
Sand, very fine, silty-----	15	32
Sand, very fine to fine; clay, silty-----	35	67
Bedrock-----		67

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-17cbb2. Surface altitude, 562.6 ft.

	Thickness (feet)	Depth (feet)
Clay-----	7	7
Silt, clayey-----	5	12
Clay, silty-----	7	19
Bedrock-----		19

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-21baa1. Surface altitude, 519.3 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	17	17
Sand, very fine, silty-----	16	33
Bedrock-----		33

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-22aaa1. Surface altitude, 520.9 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	12	12
Silt, clayey; sand, very fine-----	15	27
Sand, very fine to medium-----	5	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-22aaa2. Surface altitude, 521.0 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	12	12
Silt, clayey; sand, very fine-----	15	27
Sand, very fine to medium-----	4	31
Bedrock-----		31

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-22bcbl. Surface altitude, 519.1 ft.

	Thickness (feet)	Depth (feet)
Clay, silty; sand, very fine-----	27	27
Silt; sand, very fine-----	15	42
Bedrock-----		42

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-22dad1. Surface altitude, 520.1 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	12	12
Sand, very fine to fine; silty, clayey-----	15	27
Sand, very fine to medium; clay, silty-----	5	32
No sample (gravel reported)-----	6	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-23bba1. Surface altitude, 518.7 ft.

	Thickness (feet)	Depth (feet)
Silt-----	6	6
Silt, clayey; sand, very fine-----	11	17
Sand, fine; silty; gravel-----	19	36
Sand, medium to very coarse; gravel-----	6	42
Bedrock-----		42

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-23bdb1. Surface altitude, 520.7 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	12	12
Silt; sand, very fine-----	10	22
Sand, fine-----	10	32
No sample-----	5	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-23cdcl. Surface altitude, 514.5 ft.

	Thickness (feet)	Depth (feet)
Clay-----	20	20
Silt, clayey; sand, very fine to fine-----	5	25
Gravel; silt; sand, very fine to fine-----	10	35
No sample-----	2	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-23dad1. Surface altitude, 514.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	38	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-24aad1. Surface altitude, 511.2 ft.

	Thickness (feet)	Depth (feet)
Clay-----	17	17
Clay, silty-----	15	32
Silt, clayey; sand, very fine-----	5	37
Clay; silt-----	6	43
Bedrock-----		43

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-26add1. Surface altitude, 550.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	27	27
Bedrock-----		27

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-28aaa1. Surface altitude, 574.2 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey; sand, very fine-----	42	42
Bedrock-----		42

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-28bda1. Surface altitude, 611.0 ft.

	Thickness (feet)	Depth (feet)
Sand, very fine to fine, silty-----	22	22
Silt, clayey; sand, very fine-----	5	27
Sand, very fine to fine; silty-----	15	42
Sand, fine-----	15	57
Sand, very fine to medium-----	10	67
Sand, very fine to fine; clay, silty-----	10	77
Sand, very fine to fine, silty-----	6	83
Bedrock-----		83

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-33cad1. Surface altitude, 522.6 ft.

	Thickness (feet)	Depth (feet)
Sand, fine to medium-----	22	22
Sand, medium to coarse; gravel, fine-----	5	27
Sand, fine to coarse; gravel, fine-----	4	31
Bedrock-----		31

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-28dad2. Surface altitude, 596.0 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey; sand, very fine-----	27	27
Sand, very fine to fine; silty, clayey-----	5	32
Sand, very fine to medium, silty-----	15	47
Sand, very fine, silty-----	19	66
Bedrock-----		66

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-35bcbl. Surface altitude, 511.7 ft.

	Thickness (feet)	Depth (feet)
Clay-----	7	7
Sand, very fine to fine-----	5	12
Sand, medium to very coarse; gravel, fine-----	17	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-36aab2. Surface altitude, 582.3 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	7	7
Silt, clayey-----	10	17
Clay-----	5	22
Clay, silty-----	5	27
Sand, very fine; clay, silty-----	5	32
Sand, very fine to medium; gravel; silt, clayey-----	5	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-36aab2. Surface altitude, 582.3 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	7	7
Silt, clayey-----	10	17
Clay-----	5	22
Clay, silty-----	5	27
Sand, very fine; clay, silty-----	5	32
Sand, very fine to medium; gravel; silt, clayey-----	5	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

16N-18E-36bbb1. Surface altitude, 579.8 ft.

	Thickness (feet)	Depth (feet)
Sand, very fine to medium-----	12	12
Clay, silty-----	25	37
No sample-----	5	42
Sand, very fine to fine-----	10	52
Bedrock-----		52

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-7ccc1. Surface altitude, 529.2 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	12	12
Silt, clayey; gravel-----	2	14
Bedrock-----		14

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-19cccl. Surface altitude, 515.8 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	35	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-19cdd1. Surface altitude, 515.3 ft.

	Thickness (feet)	Depth (feet)
Clay-----	15	15
Clay, silty-----	10	25
Sand, medium to very coarse; gravel, fine-----	8	33
Bedrock-----		33

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-20baa1. Surface altitude, 536.3 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	12	12
Clay, silty; sand, very fine to medium-----	5	17
No sample-----	6	23
Bedrock-----		23

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-30abb1. Surface altitude, 515.1 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey; sand, very fine-----	15	15
Silt; sand, very fine-----	17	32
Sand, very fine to fine; gravel at 35 ft-----	5	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-31ccd1. Surface altitude, 514.4 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	22	22
Sand, very fine to medium, silty-----	5	27
Sand, very fine to coarse; gravel, fine-----	8	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-32dcc2. Surface altitude, 505.5 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey; sand, very fine-----	22	22
No sample-----	5	27
Silt; sand, very fine-----	5	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-32dcc2. Surface altitude, 505.5 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey; sand, very fine-----	22	22
No sample-----	5	27
Silt; sand, very fine-----	5	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-33bccl. Surface altitude, 519.2 ft.

	Thickness (feet)	Depth (feet)
Silt, sandy, very fine-----	39	39
Bedrock-----		39

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-33ddd1. Surface altitude, 518.5 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	27	27
Bedrock-----		27

Table 2.--Logs of test holes and wells

Wagoner County

16N-19E-34dcd1. Surface altitude, 505.9 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	17	17
Silt, clayey; gravel-----	17	34
Bedrock-----		34

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-2ccc1. Surface altitude, 562.5 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	22	22
Silt, clayey; sand, very fine-----	5	27
No sample-----	5	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-4aaa1. Surface altitude, 580.5 ft.

	Thickness (feet)	Depth (feet)
Clay-----	37	37
No sample-----	10	47
Bedrock-----		47

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-4cccl. Surface altitude, 520.8 ft.

	Thickness (feet)	Depth (feet)
Clay-----	12	12
Silt, clayey-----	23	35
Silt; gravel-----	3	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-5bcc1. Surface altitude, 531.0 ft.

	Thickness (feet)	Depth (feet)
Clay-----	7	7
Clay; silt-----	15	22
Clay, dark brown; silt; sand, very fine-----	6	28
Bedrock-----		28

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-7dbcl. Surface altitude, 524.9 ft.

	Thickness (feet)	Depth (feet)
Clay-----	17	17
Clay; silt-----	10	27
Sand, very fine to fine; clay-----	11	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-7ddcl. Surface altitude, 529.7 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	33	33
Sand, fine, clayey; gravel, fine to medium-----	6	39
Sand, coarse; gravel, fine to coarse-----	6	45
Bedrock-----		45

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-8bbb1. Surface altitude, 525.5 ft.

	Thickness (feet)	Depth (feet)
No sample-----	20	20
Silt; clay-----	5	25
Silt, clayey; sand, fine-----	5	30
Sand, fine to medium, silty; gravel-----	5	35
Sand, fine to very coarse; gravel-----	6	41
Bedrock-----		41

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-9ccc1. Surface altitude, 526.3 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	32	32
Silt; clay; sand, very fine-----	10	42
Bedrock-----		42

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-10cbcl. Surface altitude, 522.1 ft.

	Thickness (feet)	Depth (feet)
Silt; sand, very fine; clay-----	7	7
Sand, very fine to fine; clay, silty-----	5	12
Clay; silt-----	19	31
Bedrock-----		31

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-15baa1. Surface altitude, 561.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	37	37
No sample-----	11	48
Bedrock-----		48

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-15dad1. Surface altitude, 543.6 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	7	7
Sand, very fine-----	5	12
Sand, very fine to fine-----	20	32
No sample-----	6	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

17N-17B-16cabl. Surface altitude, 534.1 ft.

	Thickness (feet)	Depth (feet)
Sand, very fine-----	17	17
Sand, very fine to fine; silty-----	8	25
Gravel reported-----	22	25
Bedrock-----		25

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-16ccc1. Surface altitude, 532.0 ft.

	Thickness (feet)	Depth (feet)
Silt; clay-----	12	12
Silt-----	10	22
Silt; sand, very fine-----	15	37
Sand, very fine; silty-----	4	41
Bedrock-----		41

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-17ac1. Surface altitude, 534.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	43	43
Bedrock-----		43

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-18aabl. Surface altitude, 527.4 ft.

	Thickness (feet)	Depth (feet)
Clay and silt-----	30	30
Silt, clayey; sand, very fine; gravel-----	5	35
Gravel, silty-----	7	42
Bedrock-----		42

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-18aab2. Surface altitude, 529.0 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	33	33
Sand, fine, clayey; gravel, fine to medium-----	6	39
Sand, coarse; gravel, fine to coarse-----	6	45
Bedrock-----		45

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-18dba1. Surface altitude, 522.0 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	22	22
Sand, very fine to fine, silty-----	14	36
Gravel reported-----	27	36
Bedrock-----		36

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-19ada1. Surface altitude, 522.1 ft.

	Thickness (feet)	Depth (feet)
Sand, very fine to fine; silty-----	12	12
Sand, very fine to medium-----	24	36
Bedrock-----		36

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-20adb1. Surface altitude, 529.2 ft.

	Thickness (feet)	Depth (feet)
Sand, very fine; silt, clayey-----	38	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-20dbc1. Surface altitude, 528.8 ft.

	Thickness (feet)	Depth (feet)
Clay-----	17	17
Sand, very fine to fine; silty-----	25	42
Bedrock-----		42

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-21aaa1. Surface altitude, 523.9 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	41	41
Bedrock-----		41

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-21dcd1. Surface altitude, 526.9 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	17	17
Bedrock-----		17

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-22ada1. Surface altitude, 525.5 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	12	12
Sand, very fine; silt, clayey-----	10	22
Sand, very fine to medium-----	14	36
Bedrock-----		36

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-24bbb1. Surface altitude, 517.6 ft.

	Thickness (feet)	Depth (feet)
Clay-----	7	7
Sand, very fine; silt-----	15	22
Clay; silt-----	2	24
Bedrock-----		24

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-24cccl. Surface altitude, 518.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	12	12
Sand, very fine to fine, clayey-----	23	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-24cdd1. Surface altitude, 516.5 ft.

	Thickness (feet)	Depth (feet)
Clay-----	10	10
Clay, silty; sand, very fine-----	5	15
Sand, fine to medium; gravel, fine, silty-----	5	20
Sand, fine to very coarse; gravel, fine to medium, silty-----	9	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-24dcd1. Surface altitude, 517.9 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	22	22
Sand, very fine to fine; clay, silty-----	7	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-26ccb1. Surface altitude, 518.8 ft.

	Thickness (feet)	Depth (feet)
Clay-----	7	7
Silt; sand, very fine-----	10	27
Silt, clayey; sand, very fine to fine-----	7	34
Bedrock-----		34

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-27bca1. Surface altitude, 521.7 ft.

	Thickness (feet)	Depth (feet)
Silt; clay-----	14	14
Sand, fine to medium; gravel-----	4	18
Bedrock-----		18

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-32aaal. Surface altitude, 550.9 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	7	7
Silt; clayey; sand, very fine; gravel-----	5	12
To sample-----	3	15
Bedrock-----		15

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-33aaa1. Surface altitude, 518.6 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	12	12
Clay, silty-----	22	34
Bedrock-----		34

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-34abb1. Surface altitude, 519.6 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	17	17
Sand, very fine to fine; clay, silty-----	5	22
Sand, very fine to medium, silty-----	5	27
No sample-----	10	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-34bba1. Surface altitude, 517.5 ft.

	Thickness (feet)	Depth (feet)
Clay-----	15	15
Clay, silty-----	5	20
Sand, fine to coarse; gravel, fine to medium-----	18	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-35aabl. Surface altitude, 517.0 ft.

	Thickness (feet)	Depth (feet)
Clay-----	12	12
Clay; silt-----	5	17
Silt; sand, very fine-----	14	31
Bedrock-----		31

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-35aab2. Surface altitude, 516.9 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	30	30
Bedrock-----		30

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-36aab1. Surface altitude, 521.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	12	12
Silt, clayey; sand, very fine-----	10	22
Sand, very fine to fine; clay, silty-----	5	27
Bedrock-----		27

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-36daal. Surface altitude, 517.1 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	12	12
Sand, very fine, silty-----	10	22
Sand, very fine to fine-----	14	36
Bedrock-----		36

Table 2.--Logs of test holes and wells

Wagoner County

Table 2.--Logs of test holes and wells

Wagoner County

17N-17E-36ddd1. Surface altitude, 515.1 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	10	10
Silt; clay-----	5	15
Silt, clayey; sand, fine-----	10	25
Sand, fine to very coarse; silt; gravel, fine to medium-----	12	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

17N-18E-19bc2. Surface altitude, 549.2 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	17	17
Sand, very fine to fine, silty-----	15	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Wagoner County

17N-18E-20ccc1. Surface altitude, 554.1 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	22	22
Clay, silty; sand, very fine-----	9	31
Bedrock-----		31

Table 2.--Logs of test holes and wells

Wagoner County

17N-18E-31aaa1. Surface altitude, 549.0 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey; sand, very fine-----	27	27
Sand, very fine, silty-----	10	37
Sand, very fine to fine, silty-----	11	48
Bedrock-----		48

Table 2.--Logs of test holes and wells

Wagoner County

17N-18E-31bba2. Surface altitude, 531.6 ft.

	Thickness (feet)	Depth (feet)
Sand, very fine to fine, silty-----	7	7
Clay, silty; sand, very fine-----	18	25
Gravel reported-----	18	25
Bedrock-----		25

Table 2.--Logs of test holes and wells

Wagoner County

17N-18E-31ddal. Surface altitude, 516.2 ft.

	Thickness (feet)	Depth (feet)
Clay-----	17	17
Clay, silty-----	5	22
Silt, clayey-----	5	27
Silt, clayey; gravel-----	5	32
No sample-----	3	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

17N-18E-31ddc1. Surface altitude, 515.1 ft.

	Thickness (feet)	Depth (feet)
Clay-----	17	17
Silt; clay-----	15	32
Sand, very fine to fine; silt-----	3	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

17N-18E-32ccb3. Surface altitude, 516 ft.

	Thickness (feet)	Depth (feet)
Silt-----	17	17
Sand, very fine, silty-----	7	24
Gravel, fine-----	1	25
Sand, very fine to fine; silt-----	2	27
No sample-----	5	32
Gravel-----	3	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

17N-18E-32cCb4. Surface altitude, 516 ft.

	Thickness (feet)	Depth (feet)
Silt-----	17	17
Sand, very fine, silty-----	7	24
Gravel, fine-----	1	25
Sand, very fine to fine; silt-----	2	27
No sample-----	5	32
Gravel-----	3	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

18N-16E-11daal. Surface altitude, 540.1 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	18	18
Sand, very fine to fine; clay, silty-----	5	23
No sample-----	6	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Wagoner County

18N-16E-12aaa2. Surface altitude, 540.3 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	30	30
Gravel; silt, sandy, fine-----	2	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Wagoner County

18N-16E-12abb2. Surface altitude, 543.1 ft.

	Thickness (feet)	Depth (feet)
Clay-----	12	12
Clay, silty-----	15	27
Sand, very fine; silt, clayey-----	5	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Wagoner County

18N-16E-13bbb1. Surface altitude, 533.4 ft.

	Thickness (feet)	Depth (feet)
Clay-----	12	12
Silt, clayey-----	10	22
Sand, very fine to fine, silty-----	14	36
Sand, fine to medium; gravel-----	6	42
Bedrock-----		42

Table 2.--Logs of test holes and wells

Wagoner County

18N-16E-13bcc1. Surface altitude, 532.2 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	22	22
Sand, very fine to fine-----	10	32
Sand, very fine to medium; gravel-----	9	41
Bedrock-----		41

Table 2.--Logs of test holes and wells

Wagoner County

18N-16E-13daa1. Surface altitude, 531.5 ft

	Thickness (feet)	Depth (feet)
Clay; silt-----	17	17
Sand, very fine to fine; silt, clayey-----	5	22
Sand, very fine to medium-----	14	36
Bedrock-----		36

Table 2.--Logs of test holes and wells

Wagoner County

18N-16E-13daa2. Surface altitude, 531.5 ft.

	Thickness (feet)	Depth (feet)
Clay-----	10	10
Clay, silty-----	5	15
Silt, clayey; sand, fine; gravel-----	5	20
Sand, fine, silty; gravel-----	5	25
Sand, fine to medium; silty-----	12	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

18N-16E-14baal. Surface altitude, 537.3 ft.

	Thickness (feet)	Depth (feet)
Clay-----	22	22
Clay; silt-----	15	37
Sand, very fine to fine; clay-----	5	42
Bedrock-----		42

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-3ccc1. Surface altitude, 584.0 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	9	9
Bedrock-----		9

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-6aad1. Surface altitude, 539.8 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	37	37
Sand, very fine to fine, silty-----	9	46
Bedrock-----		46

Table 2.--Logs of wells and test holes

Wagoner County

18N-17E-6cbb1. Surface altitude, 540.8 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	32	32
Silt, clayey; sand, very fine-----	16	48
Bedrock-----		48

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-6cbb2. Surface altitude, 540.8 ft.

	Thickness (feet)	Depth (feet)
Clay-----	30	30
Silt, clayey-----	10	40
Sand, medium; gravel; silt-----	5	45
Silt, clayey; gravel, sandy, very fine to medium---	5	50
Bedrock-----		50

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-8bbb1. Surface altitude, 535.4 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	44	44
Bedrock-----		44

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-9bcd1. Surface altitude, 540.3 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	12	12
Clay, silty-----	10	22
No sample-----	5	27
Clay; silt-----	5	32
Silt; sand, very fine-----	10	42
No sample-----	5	47
Silt; sand, very fine----- (Gravel reported 45-50 ft.)	3	50
Bedrock-----		50

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-10cccl. Surface altitude, 575.0 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey; sand, very fine-----	7	7
Sand, very fine to fine; silt, clayey-----	5	12
Sand, very fine to medium; gravel, silty-----	7	19
Bedrock-----		19

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-16bbb1. Surface altitude, 539.3 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	37	37
No sample-----	10	47
Bedrock-----		47

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-17daal. Surface altitude, 533.7 ft.

	Thickness (feet)	Depth (feet)
Clay-----	10	10
Silt, clayey-----	10	20
Silt, clayey; sand, very fine-----	5	25
Silt, clayey; sand, fine-----	5	30
Sand, fine to medium-----	8	38
Sand, fine to medium; gravel, fine-----	3	41
Bedrock-----		41

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-21ddd1. Surface altitude, 565.3 ft.

	Thickness (feet)	Depth (feet)
Clay-----	7	7
Clay, silty-----	31	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-29ab1. Surface altitude, 546.1 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	7	7
Sand, very fine; silt-----	23	30
Bedrock-----		30

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-29cbcl. Surface altitude, 547.7 ft.

	Thickness (feet)	Depth (feet)
Silt; clay; sand, very fine-----	12	12
Silt; sand, very fine-----	10	22
Sand, very fine to fine; silt-----	7	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-29dccc1. Surface altitude, 538.6 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	12	12
Sand, very fine-----	13	25
Bedrock-----		25

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-30bab1. Surface altitude, 528.4 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	22	22
Silt, clayey; sand, very fine to fine-----	8	30
Silt; clay; some gravel-----	5	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-31daa1. Surface altitude, 536.6 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	12	12
Sand, very fine, silty-----	5	17
Sand, very fine to fine-----	11	28
Bedrock-----		28

Table 2.--Logs of test holes and wells

Wagoner County

18N-17E-32cdd1. Surface altitude, 528.0 ft.

	Thickness (feet)	Depth (feet)
Clay-----	7	7
Clay, silty-----	15	12
Silt, clayey-----	5	17
Bedrock-----		17

Table 2.--Logs of test holes and wells

Rogers County

19N-16E-4cddl. Surface altitude, 548.6 ft.

	Thickness (feet)	Depth (feet)
Clay-----	12	12
Clay; silt-----	10	22
Sand, very fine to fine; silt, clayey-----	18	40
Bedrock-----		40

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-5aaa3. Surface altitude, 557.2 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	17	17
Silt, clayey-----	35	52
Silt, clayey; some sand, very fine to fine----- (Gravel reported 56-50 ft.)	7	59
Bedrock-----		59

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-5ab1. Surface altitude, 549.5 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	37	37
Sand, very fine to fine; silt, clayey----- (Gravel reported 42-49 ft.)	12	49
Bedrock-----		49

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-5baa1. Surface altitude, 548.9 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	7	7
Silt, clayey; sand, fine-----	10	17
Sand, fine; some clay-----	22	39
Bedrock-----		39

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-5bba1. Surface altitude, 550.3 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	27	27
Sand, very fine to medium-----	10	37
Sand, very fine to fine; silt, clayey-----	12	49
Bedrock-----		49

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-5ccc1. Surface altitude, 552.2 ft.

	Thickness (feet)	Depth (feet)
Clay-----	32	32
Sand, very fine to fine-----	14	46
Bedrock-----		46

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-8aad1. Surface altitude, 551.9 ft.

	Thickness (feet)	Depth (feet)
Clay-----	30	30
Silt, clayey----- (Gravel reported 42-52 ft.)	22	52
Bedrock-----		52

Table 2.--Logs of test holes and wells

Rogers County

19N-16E-9aaa1. Surface altitude, 549.6 ft.

	Thickness (feet)	Depth (feet)
Silt-----	22	22
Sand, very fine to fine; clay, silty-----	3	25
Bedrock-----		25

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-9cccl. Surface altitude, 546.3 ft.

	Thickness (feet)	Depth (feet)
Clay-----	5	5
Clay; silt-----	20	25
Silt, clayey-----	5	30
Gravel; sand, fine to coarse-----	11	41
Bedrock-----		41

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-14cccl. Surface altitude, 547.8 ft.

	Thickness (feet)	Depth (feet)
Silt-----	7	7
Clay, silty-----	25	32
Sand, very fine to fine-----	12	44
Bedrock-----		44

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-15aad1. Surface altitude, 549.1 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	27	27
Silt, clayey; sand, very fine-----	15	42
Sand, very fine to medium; gravel-----	9	51
Bedrock-----		51

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-15cbcl. Surface altitude, 547.3 ft.

	Thickness (feet)	Depth (feet)
Clay-----	20	20
Clay, silty; sand, very fine to fine-----	20	40
Sand, fine to medium; gravel; silt-----	5	45
Gravel; clay, silty; sand, very fine to medium-----	5	50
Bedrock-----		50

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-17aab1. Surface altitude, 549.3 ft.

	Thickness (feet)	Depth (feet)
Clay-----	42	42
Clay, silty-----	2	44
Bedrock-----		44

Table 2.--Logs of test holes and wells

Wagoner County

19N-16B-17dcci. Surface altitude, 544.1 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	30	30
Silt, clayey; sand, very fine to fine-----	5	35
Sand, fine to medium, silty; gravel-----	8	43
Gravel, sandy, fine to very coarse-----	4	47
Bedrock-----		47

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-18aaa1. Surface altitude, 547.7 ft.

	Thickness (feet)	Depth (feet)
Clay-----	32	32
Clay; silt-----	15	47
Silt, clayey; sand, very fine to fine-----	2	49
Bedrock-----		49

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-20aaa1. Surface altitude, 543.2 ft.

	Thickness (feet)	Depth (feet)
Clay-----	12	12
Silt; sand, very fine to fine-----	10	22
Sand, very fine to medium; gravel-----	22	44
Bedrock-----		44

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-20bbb1. Surface altitude, 545.8 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	32	32
Silt, clayey-----	5	37
Silt, clayey; sand, very fine to fine----- (Gravel reported 41-50 ft.)	13	50
Bedrock-----		50

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-20cdd1. Surface altitude, 546.4 ft.

	Thickness (feet)	Depth (feet)
Clay-----	5	5
Clay, silty-----	30	35
Silt, clayey; sand, fine-----	5	40
Sand, medium; gravel; silt-----	5	45
Sand, medium to very coarse, silty; gravel-----	8	53
Bedrock-----		53

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-20ddd1. Surface altitude, 541.2 ft.

	Thickness (feet)	Depth (feet)
Clay-----	22	22
Silt; clay-----	10	27
Silt, clayey; sand, very fine-----	5	32
No sample-----	5	37
Silt, clayey-----	10	47
Bedrock-----		47

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-22ccc1. Surface altitude, 541.2 ft.

	Thickness (feet)	Depth (feet)
Clay-----	27	27
Silt, clayey-----	10	37
Silt, clayey; sand, very fine to fine-----	5	41
Clay, silty; sand, very fine to fine; gravel-----	2	43
Bedrock-----		43

Table 2.--Logs of test holes and wells

Wagoner County

19N-16B-22dccl. Surface altitude, 543.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	27	27
Silt, clayey-----	5	32
Sand, very fine-----	5	37
Sand, very fine to medium-----	7	44
Bedrock-----		44

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-23abbl. Surface altitude, 547.9 ft.

	Thickness (feet)	Depth (feet)
Clay-----	5	5
Clay; silt-----	25	30
Clay; silt; sand, Fine-----	10	40
Sand, fine to medium-----	5	45
Sand, fine to coarse; gravel, fine-----	8	53
Bedrock-----		53

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-23abb2. Surface altitude, 549.6 ft.

	Thickness (feet)	Depth (feet)
Clay-----	5	5
Silt; clay-----	25	30
Silt; clayey; sand, very fine to fine-----	5	35
Sand, fine to medium-----	14	49
Gravel; sand, fine to very coarse-----	4	53
Bedrock-----		53

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-23abb3. Surface altitude, 547.7 ft.

	Thickness (feet)	Depth (feet)
Clay-----	5	5
Silt; clay-----	25	30
Silt, clayey; sand, very fine to fine	5	35
Sand, fine to medium-----	14	49
Gravel; sand, fine to very coarse-----	4	53
Bedrock-----		53

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-23abb4. Surface altitude, 548.0 ft.

	Thickness (feet)	Depth (feet)
Clay-----	5	5
Silt; clay-----	25	30
Silt, clayey; sand, very fine to fine-----	5	35
Sand, fine to medium-----	14	49
Gravel; sand, fine to very coarse-----	4	53
Bedrock-----		53

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-23accl. Surface altitude, 545.8 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	27	27
Clay, silty; sand, very fine-----	16	43
Sand, very fine to fine; clay; gravel-----	8	51
Bedrock-----		51

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-26baal. Surface altitude, 539.0 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	17	17
Silt-----	15	32
Sand, very fine to medium, silty; gravel-----	12	44
Bedrock-----		44

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-26cdal. Surface altitude, 539.3 ft.

	Thickness (feet)	Depth (feet)
Clay-----	10	10
Silt, clayey-----	20	30
Sand, fine to medium-----	5	35
Sand, fine to medium; gravel-----	5	40
Gravel; sand, medium to very coarse-----	7	47
Bedrock-----		47

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-26cda2. Surface altitude, 540.1 ft.

	Thickness (feet)	Depth (feet)
Silt; clay-----	10	10
Silt, clayey; sand, fine-----	20	30
Sand, fine to medium-----	10	40
Sand, coarse; gravel, fine to coarse-----	8	48
Bedrock-----		48

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-26cda3. Surface altitude, 539.7 ft.

	Thickness (feet)	Depth (feet)
Silt; clay-----	10	10
Silt, clayey; sand, fine-----	20	30
Sand, fine to medium-----	10	40
Sand, coarse; gravel, fine to coarse-----	8	48
Bedrock-----		48

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-26cdd1. Surface altitude, 536.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	32	32
Sand, very fine to fine-----	5	37
Sand, very fine to medium-----	1	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-27dcl. Surface altitude, 540.0 ft.

	Thickness (feet)	Depth (feet)
Clay-----	17	17
Sand, very fine; clay, silty-----	5	22
Sand, fine to medium-----	15	37
Sand, fine to medium-----	6	43
Bedrock-----		43

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-28cccl. Surface altitude, 543.7 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	29	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-29ccb2. Surface altitude, 549.0 ft.

	Thickness (feet)	Depth (feet)
Clay; silt----- (Possible gravel reported 32-37 ft.)	37	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-30aaa1. Surface altitude, 546.4 ft.

	Thickness (feet)	Depth (feet)
Clay-----	7	7
Silt, clayey; sand, very fine-----	5	12
Sand, fine to medium; gravel-----	10	22
Sand, medium; trace of gravel-----	15	37
Bedrock-----		37

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-33bbbl. Surface altitude, 544.1 ft.

	Thickness (feet)	Depth (feet)
Clay; silt-----	27	27
Silt, clayey; sand, very fine-----	3	30
Bedrock-----		30

Table 2.--Logs of test holes and wells

Wagoner County

19N-16E-36bdb1. Surface altitude, 544.2 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	27	27
Clay; silt; sand, very fine-----	4	31
Sand, very fine to fine, silty-----	11	42
No sample----- (Gravel reported 45-52 ft.)	10	52
Bedrock-----		52

Table 2.--Logs of test holes and wells

Rogers County

19N-17E-31cdd1. Surface altitude, 545.3 ft.

	Thickness (feet)	Depth (feet)
Silt-----	7	7
Clay; silt-----	20	27
Sand, very fine; gravel; clay-----	5	32
Bedrock-----		32

Table 2.--Logs of test holes and wells

Rogers County

19N-17E-32ddd1. Surface altitude, 573.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	8	8
Bedrock-----		8

Table 2.--Logs of test holes and wells

Rogers County

19N-17E-34cccl. Surface altitude, 606.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	7	7
Silt; sand, very fine-----	5	12
Silt; clayey-----	5	17
Sand, very fine to fine; silt, clayey-----	8	25
Bedrock-----		25

Table 2.--Logs of test holes and wells

Wagoner County

20N-15E-4cddl. Surface altitude, 570.2 ft.

	Thickness (feet)	Depth (feet)
Clay; sand, very fine-----	17	17
Sand, fine-----	15	32
Sand, fine to medium-----	11	43
Bedrock-----		43

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-9cacl. Surface altitude, 566.7 ft.

	Thickness (feet)	Depth (feet)
Clay, silty; sand, very fine-----	12	12
Clay; sand, fine-----	10	22
Sand, very fine to fine; silty-----	7	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-10cdd1. Surface altitude, 563.5 ft.

	Thickness (feet)	Depth (feet)
Clay-----	12	12
Clay, silty; sand, very fine-----	5	17
Clay; sand, very fine to fine-----	5	22
Sand, very fine to fine-----	5	27
Sand, fine to medium-----	3	30
Bedrock-----		30

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-15cdcl. Surface altitude, 564.9 ft.

	Thickness (feet)	Depth (feet)
Clay-----	27	27
Clay; silt-----	5	32
Sand, very fine; clay, silty-----	10	42
Sand, very fine; silt-----	7	49
Bedrock-----		49

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-16add1. Surface altitude, 562.1 ft.

	Thickness (feet)	Depth (feet)
Clay-----	27	27
Sand, very fine to fine; clay-----	10	37
Sand, fine to medium-----	8	45
Bedrock-----		45

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-22dad1. Surface altitude, 563.6 ft.

	Thickness (feet)	Depth (feet)
Clay-----	27	27
Sand, very fine to fine; clay, silty-----	20	47
No sample-----	4	51
Bedrock-----		51

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-23bbb1. Surface altitude, 559.8 ft.

	Thickness (feet)	Depth (feet)
Clay-----	42	42
Clay, sand, fine to medium; gravel, fine-----	3	45
Bedrock-----		45

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-23bcbl. Surface altitude, 560.3 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	25	25
Silt, clayey-----	10	35
Silt, clayey; some gravel-----	5	40
Gravel-----	6	46
Bedrock-----		46

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-24aaa1. Surface altitude, 557.9 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	25	25
Sand, fine to medium, silty-----	11	40
Sand, fine to coarse; gravel, fine-----	10	50
Bedrock-----		50

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-24baal. Surface altitude, 557.7 ft.

	Thickness (feet)	Depth (feet)
Clay-----	27	27
Sand, fine to medium; some gravel-----	8	35
Bedrock-----		35

Table 2.--Logs of test holes and wells

Rogers County

20N-15E-24cbb1. Surface altitude, 560.6 ft.

	Thickness (feet)	Depth (feet)
Clay-----	27	27
Clay; sand, very fine, silty-----	5	32
Sand, very fine to fine; clay, silty-----	16	48
Bedrock-----		48

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-4dcb1. Surface altitude, 554.8 ft.

	Thickness (feet)	Depth (feet)
Clay-----	7	7
Clay; silty; sand, very fine-----	15	22
Clay; sand, very fine to fine-----	5	27
Sand, fine; clay-----	10	37
Sand, fine to medium; some gravel-----	3	40
Bedrock-----		40

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-5dacl. Surface altitude, 555.9 ft.

	Thickness (feet)	Depth (feet)
Clay-----	27	27
Clay; sand, very fine to fine-----	5	32
Sand, very fine to fine; some clay-----	13	45
Gravel-----	1	46
Sand, fine; some clay-----	3	49
Bedrock-----		49

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-7dca1. Surface altitude, 567.3 ft.

	Thickness (feet)	Depth (feet)
Sand, very fine to fine; clay, silty-----	17	17
Sand, fine to medium-----	5	22
Sand, fine to medium; gravel, fine-----	7	29
Bedrock-----		29

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-8bbb1. Surface altitude, 556.8 ft.

	Thickness (feet)	Depth (feet)
Clay-----	17	17
Clay; sand, very fine-----	5	22
Sand, very fine to fine; silt-----	15	37
Sand, very fine to fine, silty; some gravel-----	1	38
Bedrock-----		38

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-8cdcl. Surface altitude, 560.2 ft.

	Thickness (feet)	Depth (feet)
Clay-----	27	27
Clay; sand, very fine to fine-----	5	32
Sand, fine; clay-----	5	37
Sand, very fine to fine-----	5	42
Sand, fine to medium----- (No sample 42-45 ft.)	10	52
Bedrock-----		52

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-8ddd1. Surface altitude, 560.4 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	29	29
Clay, silty; sand, fine-----	11	40
Sand, fine; gravel, fine to medium-----	10	50
Bedrock-----		50

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-9cdb1. Surface altitude, 561.3 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	7	7
Clay-----	25	32
No sample-----	5	37
Clay, silty-----	15	52
No sample-----	7	59
Bedrock-----		59

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-16cdbl. Surface altitude, 557.2 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	42	42
Sand, very fine to fine; clay, silty-----	14	56
Bedrock-----		56

Table 2.--Logs of test holes and wells

Rogers County

20N-16B-16ddcl. Surface altitude, 558.0 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	32	32
Clay, silty; sand, very fine-----	25	57
Bedrock-----		37

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-17aac1. Surface altitude, 558.4 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	27	27
Clay, silty; sand, very fine-----	20	47
No sample-----	3	50
Bedrock-----		50

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-18adbl. Surface altitude, 554.6 ft.

	Thickness (feet)	Depth (feet)
Clay-----	37	37
No sample-----	5	42
Bedrock-----		42

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-18cbcl. Surface altitude, 556.3 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	22	22
Clay; sand, very fine-----	9	31
Bedrock-----		31

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-19bbc1. Surface altitude, 561.3 ft.

	Thickness (feet)	Depth (feet)
Clay, silt-----	17	17
Sand, very fine to fine-----	25	42
Sand, very fine to medium-----	10	47
Sand, very fine to medium; gravel reported-----	3	50
Bedrock-----		50

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-20aaci. Surface altitude, 553.1 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	51	51
Bedrock-----		51

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-20abd1. Surface altitude, 554.8 ft.

	Thickness (feet)	Depth (feet)
Silt, clayey-----	40	40
No sample-----	5	45
Silt, clayey-----	5	50
Sand, finest to coarse; gravel, silty-----	9	59
Bedrock-----		59

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-20ddd1. Surface altitude, 556.0 ft.

	Thickness (feet)	Depth (feet)
Clay, silty; sand, very fine-----	7	7
Clay; sand, very fine-----	20	27
Sand, very fine to fine-----	10	37
Clay, silty-----	5	42
Sand, very fine to fine, silty-----	4	46
Gravel reported-----	1	47
No sample-----	1	48
Bedrock-----		48

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-32aba1. Surface altitude, 553.5 ft.

	Thickness (feet)	Depth (feet)
Clay-----	22	22
Clay; sand, very fine to fine----- (Gravel reported at 35-36 ft.)	33	55
Bedrock-----		55

Table 2.--Logs of test holes and wells

Rogers County

20N-16E-33cdcl. Surface altitude, 558.8 ft.

	Thickness (feet)	Depth (feet)
Clay, silty-----	7	7
Silt, clayey-----	5	12
Silt; sand, very fine-----	5	17
Sand, fine to medium; gravel, fine-----	10	27
Silt, clayey; sand, very fine; some gravel-----	10	37
Bedrock-----		37

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 15N-18E-3bbb1

Elevation of land surface 516.9 ft

Date	Water level	Date	Water level
Jan 15, 1959	17.14		
Apr 15	16.50		
Jul 27	13.54		
Nov 19	12.26		
Feb 2, 1960	13.64		
Apr 27	13.38		
Oct 1	14.60		
Apr 1, 1961	15.05		
Oct 4	13.27		
Apr 12, 1962	15.41		
Jul 12	14.94		
Sep 25	15.23		
Mar 28, 1963	17.00		
Oct 1	11.88		
Mar 31, 1964	17.40		
Oct 13	17.52		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 15N-18E-5aaa1

Elevation of land surface 529.5 ft

Date	Water level	Date	Water level
Jan 15, 1959	20.36		
Apr 15	20.92		
Jul 27	20.60		
Nov 17	19.29		
Feb 3, 1960	17.50		
Apr 27	17.20		
Oct 1	17.47		
Apr 1, 1961	18.96		
Oct 5	17.72		
Apr 12, 1962	16.68		
Jul 12	18.66		
Sep 24	19.81		
Mar 28, 1963	21.50		
Oct 1	22.59		
Mar 31, 1964	24.10		
Oct 13	24.18		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 15N-18E-5bda1

Elevation of land surface 519.5 ft

Date	Water level	Date	Water level
Jan 15, 1959	10.62		
Apr 15	11.68		
Jul 27	11.08		
Nov 17	7.40		
Feb 2, 1960	6.97		
Apr 27	7.15		
Oct 1	7.43		
Apr 1, 1961	9.51		
Oct 5	7.53		
Apr 12, 1962	8.28		
Jul 12	9.08		
Sep 24	9.70		
Mar 28, 1963	11.60		
Oct 1	12.46		
Mar 31, 1964	13.98		
Oct 13	14.02		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 15N-18E-6add1

Elevation of land surface 525.7 ft

Date	Water level	Date	Water level
Jan 15, 1959	16.70		
Apr 15	17.22		
Jul 27	16.33		
Nov 17	13.14		
Feb 2, 1960	13.90		
Apr 27	13.86		
Oct 1	13.43		
Apr 1, 1961	15.48		
Oct 5	13.21		
Apr 12, 1962	13.83		
Jul 12	14.07		
Sep 24	15.55		
Mar 28, 1963	17.32		
Oct 1	18.20		
Mar 31, 1964	19.08		
Oct 13	19.34		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-17E-1aaa1

Elevation of land surface 516.2 ft

Date	Water level	Date	Water level
Jan 14, 1959	23.64		
Apr 15	22.78		
Aug 7	17.62		
Nov 19	18.37		
Feb 17, 1960	17.90		
May 2	16.65		
Oct 1	21.59		
Apr 1, 1961	21.31		
Oct 1	14.31		
Apr 12, 1962	16.03		
Jul 5	18.38		
Sep 25	20.75		
Mar 27, 1963	20.98		
Oct 1	22.40		
Mar 30, 1964	24.08		
Oct 13	24.34		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-3ddd1

Elevation of land surface 546.7 ft

Date	Water level	Date	Water level
Jul 29, 1959	16.48		
Nov 17	16.34		
Feb 2, 1960	15.91		
Apr 27	15.56		
Sep 27	15.73		
Apr 1, 1961	15.74		
Oct 5	15.76		
Apr 12, 1962	15.22		
Jul 26	15.93		
Sep 25	16.04		
Mar 28, 1963	16.14		
Oct 1	16.94		
Mar 31, 1964	17.31		
Oct 13	18.20		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-5baa1

Elevation of land surface 515.1

Date	Water level	Date	Water level
Jan 14, 1959	22.14		
Apr 15	22.20		
Aug 7	21.91		
Feb 16, 1960	19.38		
Oct 1	19.31		
Apr 1, 1961	20.24		
Oct 9	17.20		
Apr 12, 1962	15.81		
Jul 9	15.49		
Sep 25	16.22		
Mar 28, 1963	16.37		
Oct 1	17.55		
Mar 30, 1964	18.30		
Oct 13	18.94		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-9daci

Elevation of land surface 515.7 ft

Date	Water level	Date	Water level
Jan 15, 1959	8.53		
Apr 16	7.47		
Aug 13	7.17		
Nov 17	6.08		
Feb 2, 1960	5.50		
Apr 27	4.99		
Oct 1	7.57		
Apr 1, 1961	6.63		
Oct 5	6.24		
Apr 12, 1962	4.95		
Jul 11	6.51		
Sep 25	6.98		
Mar 28, 1963	6.78		
Oct 1	9.50		
Mar 31, 1964	10.12		
Oct 13	11.25		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-10bbb1

Elevation of land surface 535.6 ft

Date	Water level	Date	Water level
Jun 26, 1957	14.98	Apr 16	16.30
Aug 21	17.86	Jul 2	17.25
Oct 15	17.38	Jul 29	15.64
Nov 26	16.28	Nov 17	15.53
Dec 18	17.24	Feb 2, 1960	7.55
Dec 27	24.79	Apr 28	15.29
Jan 21, 1958	15.52	Oct 1	18.77
Jan 30	15.14	Apr 1, 1961	14.94
Feb 13	15.11	Oct 5	16.29
Mar 4	14.47	Apr 12, 1962	15.40
Apr 8	15.52	Aug 2	17.70
Apr 23	14.67	Sep 25	15.68
May 7	14.94	Mar 28, 1963	15.94
Aug 14	17.78	Oct 1	35.04
Sep 3	18.69	Oct 13, 1964	Dry at 12.40
Sep 30	18.69		
Oct 29	19.79		
Dec 1	18.68		
Dec 30	19.44		
Jan 15, 1959	19.05		
Mar 3	17.62		
Apr 8	16.07		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-11bcc1

Elevation of land surface 526.7 ft

Date	Water level	Date	Water level
Jan 15, 1959	18.25		
Apr 16	17.15		
Jul 29	16.47		
Nov 17	16.49		
Feb 2, 1960	14.60		
Apr 27	13.83		
Sep 27	15.06		
Apr 1, 1961	14.97		
Oct 5	14.72		
Apr 12, 1962	12.90		
Jul 26	13.85		
Sep 25	15.03		
Mar 28, 1963	15.88		
Oct 1	17.22		
Mar 31, 1964	18.01		
Oct 13	18.95		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-13ba1

Elevation of land surface 532.0 ft

Date	Water level	Date	Water level
Jul 29, 1959	2.85		
Oct 30	4.53		
Nov 17	2.68		
Feb 2, 1960	1.73		
Apr 27	2.58		
Sep 27	6.56		
Apr 1, 1961	1.86		
Oct 5	4.15		
Apr 12, 1962	2.44		
Jul 27	5.70		
Sep 25	5.32		
Mar 28, 1963	5.60		
Oct 1	10.14		
Mar 31, 1964	10.08		
Oct 13	Dry at 16.00		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-14aba1

Elevation of land surface 520.2 ft

Date	Water level	Date	Water level
Jan 15, 1959	14.45		
Apr 16	12.34		
Jul 29	12.18		
Aug 27	14.47		
Oct 30	12.20		
Nov 17	11.32		
Feb 2, 1960	9.22		
Apr 27	7.84		
Sep 27	12.08		
Apr 1, 1961	10.02		
Oct 5	11.05		
Apr 12, 1962	7.46		
Jul 27	11.05		
Sep 25	12.10		
Mar 28, 1963	11.78		
Oct 1	14.12		
Mar 31, 1964	15.41		
Oct 13	16.35		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-15aaa1

Elevation of land surface 518.3 ft

Date	Water level	Date	Water level
Jan 15, 1959	15.38		
Apr 16	14.78		
Jul 29	14.47		
Aug 27	14.65		
Oct 30	13.39		
Nov 17	12.89		
Feb 2, 1960	11.76		
Apr 27	10.47		
Sep 27	12.15		
Apr 1, 1961	8.56		
Oct 5	11.09		
Apr 12, 1962	10.48		
Jul 26	11.97		
Sep 25	12.48		
Mar 28, 1963	13.55		
Oct 1	14.63		
Mar 31, 1964	15.56		
Oct 13	16.22		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-15bba1

Elevation of land surface 514.3 ft

Date	Water level	Date	Water level
Jan 15, 1959	20.02		
Apr 15	19.05		
Aug 13	18.71		
Aug 27	19.32		
Oct 30	14.80		
Nov 17	14.71		
Feb 2, 1960	13.65		
Apr 27	13.30		
Oct 1	17.47		
Apr 1, 1961	16.79		
Oct 5	13.60		
Apr 12, 1962	12.83		
Jul 11	14.62		
Sep 25	15.98		
Oct 1	19.43		
Mar 27, 1963	16.68		
Oct 1	19.43		
Mar 31, 1964	20.26		
Oct 13	21.41		

Table 3.-Depth to water in feet below land surface
 County Wagoner Well No. 16 N-18 E-15 ddc1

Elevation of land surface 525.4

Lowest water level on 5th, 10th, 15th, 20th, 25th, and end of each month taken from recorder graph

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1960												
5						27.12	27.19	27.29	27.46	27.63	27.75	27.86
10						27.13	27.20	27.32	27.49	27.66	27.81	27.87
15						27.14	27.22	27.34	27.53	27.69	27.81	27.88
20						27.15	27.24	27.36	27.56	27.72	27.82	27.88
25						27.16	27.25	27.38	27.59	27.73	27.84	27.89
eom						27.17	27.27	27.43	27.61	27.75	27.85	27.89
1961												
5	27.92	27.97	27.99	28.03	27.98	25.61	26.25	26.43	26.63	25.93	26.42	26.17
10	27.93	27.98	28.00	28.02	27.54	25.76	26.34	26.50	26.53	26.00	26.07	26.25
15	27.93	27.98	28.00	28.00	25.58	25.92	26.38	26.55	26.61	26.18	26.12	26.33
20	27.94	27.99	28.01	28.01	24.76	25.95	26.14	26.39	26.10	26.18	26.12	26.37
25	27.95	27.99	28.02	28.00	25.15	26.07	26.26	26.46	25.84	26.29	26.07	26.36
eom	27.96	28.00	28.03	28.01	25.40	26.16	26.35	26.56	25.87	26.33	26.13	26.45
1962												
5	26.43	26.72	26.90	26.98	27.09	27.23	27.35	27.47			27.56	27.59
10	26.66	26.72	26.82	26.96	27.11	27.27	27.38			27.55	27.57	27.59
15	26.57	26.74	26.96	27.02	27.15	27.26				27.55	27.57	27.60
20	26.62	26.81	26.88	27.01	27.16	27.29				27.55	27.57	27.58
25	26.59	26.82	26.96	27.04	27.17	27.31			27.60	27.55	27.59	27.60
eom	26.69	26.90	26.94	27.05	27.22	27.34		27.50		27.56	27.59	

Table 3.--Depth to water in feet below land surface

County WagonerWell No. 16 N-18E-15ddc1 -- Cont'dElevation of land surface 525.37

Lowest water level on 5th, 10th, 15th, 20th, 25th, and end of each month taken from recorder graph

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
19 <u>63</u>												
5		27.73	27.79	27.90	27.96	28.05	28.18	28.31	28.48	28.57	28.63	28.69
10		27.73	27.80	27.88	27.97	28.07	28.22	28.33	28.49	28.58	28.64	28.68
15	27.69	27.76	27.81	27.90	27.99	28.08	28.24	28.36	28.50	28.60	28.68	28.71
20	27.69	27.76	27.81	27.90	28.01	28.10	28.26	28.40	28.52	28.61	28.68	28.71
25	27.72	27.78	27.82	27.93	28.02	28.13	28.27	28.41	28.54	28.63	28.68	28.71
eom	27.72	27.78	27.84	27.95	28.04	28.15	28.28	28.46	28.55	28.64	28.70	28.73
19 <u>64</u>												
5	28.72	27.75	28.78	28.81	28.79	28.85	28.89	28.98	29.06	29.14	29.15	29.04
10	28.73	27.75	28.79	28.81	28.81	28.85	28.90	29.00	29.07	29.14	29.13	29.02
15	28.74	27.75	28.80	28.78	28.82	28.87	28.92	29.02	29.08	29.14	29.13	29.02
20	28.74	27.76	28.82	28.78	28.84	28.86	28.94	29.04	29.12	29.14	29.12	29.03
25	28.74	27.76	28.83	28.77	28.84	28.88	28.94	29.05	29.13	29.14	29.12	28.99
eom	28.75	27.77	28.84	28.78	28.85	28.88	28.97	29.06	29.13	29.15	29.07	29.02
19												
5												
10												
15												
20												
25												
eom												

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-16abb1

Elevation of land surface 530.7 ft

Date	Water level	Date	Water level
Jun 24, 1957	23.56	Jul 2	22.34
Aug 21	24.30	Jul 28	22.25
Oct 15	24.16	Aug 27	22.19
Nov 26	24.08	Oct 30	22.19
Dec 18	24.07	Nov 17	22.09
Jan 30, 1958	24.28	Feb 2, 1960	21.69
Feb 13	23.98	Mar 31	21.40
Mar 4	24.29	Apr 28	21.30
Mar 17	24.09	May 26	21.10
Mar 25	24.05	Oct 1	21.12
Apr 9	23.83	Apr 1, 1961	21.07
Apr 23	23.51	Oct 5	20.76
Aug 14	23.40	Apr 12, 1962	12.18
Sep 3	23.52	Sep 25	20.20
Sep 30	23.50	Mar 28, 1963	15.25
Oct 29	22.58	Oct 1	20.87
Dec 1	22.58	Mar 31, 1964	21.44
Dec 30	22.58	Oct 13	21.76
Jan 15, 1959	22.52		
Mar 3	22.55		
Apr 8	22.47		
Apr 16	22.41		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-21baa1

Elevation of land surface 519.3 ft

Date	Water level	Date	Water level
Jul 28, 1959	3.38		
Nov 17	3.68		
Feb 2, 1960	2.24		
Apr 27	1.80		
Oct 1	5.29		
Apr 1, 1961	4.48		
Oct 5	4.88		
Apr 12, 1962	1.65		
Jul 11	3.93		
Sep 25	4.96		
Mar 28, 1963	3.60		
Oct 1	7.97		
Mar 31, 1964	9.69		
Oct 13	10.32		

Table 3. - Depth to water in feet below land surface

County Wagoner

Well No. 16 N - 18 E - 22 o a a 2

Elevation of land surface 521.00

To test water level on 5th, 10th, 15th, 20th, 25th, and end of each month taken from recorder graph

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<u>1960</u>												
5						14.70	15.58	16.60	17.61	18.29	18.83	18.97
10						14.72	15.96	16.75	17.77	18.40	18.91	19.00
15					14.63	14.75	16.21	16.94	17.87	18.50	18.91	19.02
20					14.65	14.87	16.48	17.09	18.00		18.87	19.07
25					14.65	15.03	16.65	17.23	18.11		18.93	19.13
com					14.70	15.23	16.58	17.45	18.21		19.05	19.14
<u>1961</u>												
5	19.21	19.37	19.32	19.17	19.12	17.09	16.95	16.35	17.54	17.09	17.15	16.88
10	19.25	19.37	19.30	19.02	19.09	16.85	17.11	16.56	17.65	16.87	17.08	16.84
15	19.24	19.39	19.17	19.03	18.95	16.88	17.22	17.02	17.71	17.05	16.98	16.92
20	19.28	19.32	19.20	19.08	18.31	16.81	17.06	17.20	17.77	17.03	17.06	
25	19.35	19.31	19.23	19.09	17.60	16.80	16.09	17.23	17.73	17.13	16.92	
com	19.37	19.32	19.25	19.13	17.25	16.86	16.19	17.37	17.35	17.16	16.98	
<u>1962</u>												
5		16.53	16.86	17.03	16.92			18.51	19.31	18.80	19.05	19.17
10	16.83	16.59	16.68	16.75	16.92		18.11	18.66	19.16	18.84	19.08	19.24
15	16.64	16.68	16.96	17.00	17.02		18.17	18.86	19.10	18.87	19.10	19.18
20	16.78	16.82	16.95	17.03			18.36	18.99	18.97	18.96	19.11	19.16
25	16.72	16.82	16.83	16.99			18.45	19.16	18.88	19.15	19.22	19.26
com	16.71	17.02	16.82	16.67			18.54	19.23	18.81	19.05	19.22	19.28

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County WagonerWell No. 16 N-18E-22 00a 2 - Cont'dElevation of land surface 521.00

Lowest water level on 5th, 10th, 15th, 20th, 25th, and end of each month taken from recorder graph

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<u>1963</u>												
5	19.23	19.36		19.68	19.63	19.63	20.12	20.47	20.88	21.03	21.07	21.25
10	18.89	19.32	19.32	19.50	19.60	19.67	20.23	20.52	20.86	21.04	21.23	21.29
15	19.33		19.59		19.63	19.89	20.19	20.67	20.88	21.12	21.29	21.42
20	19.25		19.52		19.72	19.89	20.27	20.70	20.88	21.12	21.22	21.32
25	19.41		19.60		19.77	20.05	20.36	20.74	20.96	21.14	21.26	21.30
com	19.35		19.60	19.69	19.69	20.06	20.41	20.85	21.00	21.10	21.31	21.45
<u>1964</u>												
5	21.36	21.41	21.43			21.67	19.98	21.19			22.10	22.21
10	21.40	21.52	21.52			21.72	20.35	21.27		21.96	22.11	22.23
15	21.43	21.40	21.56			21.20	20.57	21.36	21.74	21.97	22.13	22.25
20	21.34	21.56	21.51			18.70	20.76	21.41			22.15	22.27
25	21.43	21.46	21.53		21.66	19.33	20.92				22.18	22.29
com	21.46	21.53	21.69		21.72	19.76	21.08					22.31
<u>19</u>												
5												
10												
15												
20												
25												
com												

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-22bcbl

Elevation of land surface 519.1 ft

Date	Water level	Date	Water level
Apr 16, 1959	12.37		
Jul 28	12.40		
Nov 17	9.54		
Feb, 1960	7.99		
Apr 27	7.43		
Oct 1	12.32		
Apr 1, 1961	10.89		
Oct 5	10.90		
Apr 12, 1962	7.96		
Jul 31	11.05		
Sep 25	12.25		
Mar 28, 1963	11.69		
Oct 1	15.62		
Mar 31, 1964	16.37		
Oct 13	17.97		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-22dad1

Elevation of land surface 520.1 ft

Date	Water level	Date	Water level
Jan 15, 1959	20.45		
Apr 16	20.60		
Jul 29	20.73		
Nov 17	19.00		
Feb 2, 1960	18.38		
Apr 27	17.82		
Sep 27	18.00		
Apr 1, 1961	19.48		
Oct 5	16.72		
Apr 12, 1962	17.58		
Jul 27	18.40		
Sep 25	19.82		
Mar 28, 1963	19.50		
Oct 1	20.25		
Mar 31, 1964	20.62		
Oct 13	Dry at 20.50		

Table 3.--Depth to water in feet below land surface

County WagonerWell No. 16 N-18 E-2366 A 1Elevation of land surface 518.7

Lowest water level on 5th, 10th, 15th, 20th, 25th, and end of each month taken from recorder graph

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
19 <u>60</u>												
5						10.04		12.92		15.20	15.85	15.70
10						10.13				15.44	15.89	15.65
15						10.10				15.62	15.52	15.81
20						10.68	13.30	13.67	14.85	15.70	15.72	15.89
25						11.10	13.09	13.97	15.01	15.45	15.59	15.71
com					10.00	11.45	12.83		15.11	15.47	15.97	15.71
19 <u>61</u>												
5	15.76	16.19	15.93	15.86	15.36	12.23	13.08	12.63	14.14	12.93	13.74	13.24
10	15.87	16.06	16.09	15.77	15.51	12.28	13.41	13.14	14.13	13.00	13.10	13.36
15	15.90	16.18	15.85		13.46	12.57	13.49	13.40	14.43	13.54	13.19	13.36
20	16.13	16.29	15.94		12.28	12.26	13.00	13.52	13.95	13.44	13.59	13.08
25	16.16	16.14	15.98		12.16	12.62	12.07	13.55	14.40	13.90	13.13	12.88
com	15.96	16.19	15.90		12.09	12.87	12.32	13.73	12.95	13.66	13.16	13.20
19 <u>62</u>												
5	12.99	13.21	13.44	13.08	12.98	13.77	14.38	14.98	16.07	15.25	15.66	15.89
10	13.73	13.12	12.92	12.92	12.92	13.74	14.65	15.29	15.81	15.41	15.56	15.92
15	13.20	13.07	13.33	13.25	13.18	13.62	14.70	15.48	15.54	15.40	15.54	15.70
20	13.21	13.27	12.95	12.92	13.23	13.79	14.84	15.70	15.37	15.46	15.69	15.86
25	12.86	13.22	13.27	12.92	13.31	13.92	14.96	15.89	15.23	15.83	15.91	16.05
com	13.04	13.57	13.08	12.95	13.57	14.12	15.04	16.02	15.21	15.60	15.80	15.91

Table 3.--Depth to water in feet below land surface

County WagonerWell No. 16 N-18 E-23 bba 1 -- Cont'dElevation of land surface 518.7

Lowest water level on 5th, 10th, 15th, 20th, 25th, and end of each month taken from recorder graph

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
19 <u>63</u>												
5	15.97	16.05	16.24	16.38	16.36	16.27	16.95	17.38	17.89	18.13	18.29	18.34
10	15.80	16.05	16.24	16.24	16.25	16.35	17.08	17.48	17.88	18.15	18.41	18.33
15	16.12	16.33	16.27	16.30	16.33	16.55	17.04	17.59	17.91	18.17	18.34	18.49
20	15.95	16.23	16.45	16.33	16.53	16.64	17.11	17.67	17.90	18.22	18.34	18.39
25	15.96	16.29	16.32	16.45	16.35	16.77	17.24	17.76	18.02	18.29	18.35	18.30
eom	16.03	16.23	16.41	16.55	16.34	16.87	17.29	17.87	18.09	18.34	18.41	18.46
19 <u>64</u>												
5	18.41	18.40	18.70	18.52	18.64	18.71	18.85	19.22	19.42	19.64	19.71	19.75
10	18.48	18.67	18.70	18.62	18.68	18.80	18.89	19.23	19.47	19.63	19.61	19.59
15	18.45	18.55	18.71	18.67	18.64	18.80	18.97	19.31	19.52	19.58	19.70	19.67
20	18.50	18.68	18.74	18.56	18.72	18.74	19.00	19.29	19.54	19.65	19.82	19.67
25	18.53	18.61	18.72	18.57	18.72	18.83	19.11	19.40	19.55	19.61	19.52	19.71
eom	18.54	18.63	18.63	18.62	18.75	18.84	19.16	19.42	19.56	19.66	19.79	19.73
19												
5												
10												
15												
20												
25												
eom												

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-23bdb1

Elevation of land surface 520.7 ft

Date	Water level	Date	Water level
Jan 15, 1959	19.28		
Apr 16	19.39		
Jul 29	18.77		
Nov 17	18.10		
Feb 2, 1960	17.26		
Apr 27	16.09		
Oct 1	16.60		
Apr 1, 1961	18.38		
Oct 5	16.40		
Apr 12, 1962	16.25		
Jul 27	16.43		
Sep 25	17.09		
Mar 28, 1963	18.32		
Oct 1	19.26		
Mar 31, 1964	20.34		
Oct 13	20.95		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-26add1

Elevation of land surface 550.7 ft

Date	Water level	Date	Water level
Jan 15, 1959	9.62		
Apr 15	14.20		
Jul 28	14.22		
Nov 17	13.15		
Feb 2, 1960	11.20		
Apr 27	10.77		
Oct 1	13.60		
Apr 1, 1961	13.79		
Oct 5	14.15		
Apr 12, 1962	12.38		
Aug 2	14.38		
Sep 24	14.32		
Mar 28, 1963	14.93		
Oct 1	16.66		
Mar 31, 1964	16.53		
Oct 13	17.49		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-26dcd1

Elevation of land surface 566.3 ft

Date	Water level	Date	Water level
Jan 15, 1959	36.20		
Apr 16	33.50		
Jul 28	33.08		
Nov 17	32.35		
Feb 2, 1960	31.40		
Apr 28	30.55		
Oct 1	28.95		
Apr 1, 1961	30.92		
Oct 5	31.70		
Apr 12, 1962	30.45		
Jul 12	30.68		
Sep 25	31.80		
Mar 28, 1963	22.78		
Oct 1	32.46		
Mar 31, 1964	33.28		
Oct 13	33.54		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-27cdd1

Elevation of land surface 583.1 ft

Date	Water level	Date	Water level
Apr 16, 1959	43.27		
Jul 28	42.85		
Nov 17	41.72		
Feb 3, 1960	41.69		
Apr 28	41.44		
Oct 1	41.04		
Apr 1, 1961	41.05		
Oct 5	41.11		
Apr 12, 1962	41.21		
Jul 12	39.43		
Sep 25	32.39		
Mar 28, 1963	43.30		
Oct 1	42.42		
Mar 31, 1964	40.30		
Oct 13	41.63		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-28aaa1

Elevation of land surface 574.2 ft

Date	Water level	Date	Water level
Jan 15, 1959	23.17		
Apr 15	20.70		
Jul 28	21.55		
Nov 17	20.18		
Feb 2, 1960	18.93		
Apr 27	18.14		
Oct 1	20.99		
Apr 1, 1961	22.35		
Oct 5	22.55		
Apr 12, 1962	20.75		
Jul 11	22.30		
Sep 24	24.23		
Mar 28, 1963	23.85		
Oct 1	24.34		
Mar 31, 1964	25.84		
Oct 13	27.05		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-28dad1

Elevation of land surface 597.5 ft

Date	Water level	Date	Water level
Nov 17, 1958	38.48		
Jan 15, 1959	40.42		
Apr 16	41.14		
Jul 28	40.86		
Nov 17	40.87		
Feb 3, 1960	40.08		
Apr 28	39.07		
Oct 1	36.49		
Apr 1, 1961	37.70		
Oct 5	37.35		
Apr 12, 1962	37.02		
Aug 13	34.70		
Sep 25	37.23		
Mar 28, 1963	38.40		
Oct 1	41.58		
Mar 31, 1964	40.73		
Oct 13	42.18		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-33cad1

Elevation of land surface 522.6 ft

Date	Water level	Date	Water level
Jan 15, 1959	14.67		
Apr 15	14.76		
Jul 27	13.69		
Nov 19	11.00		
Feb 2, 1960	9.65		
Apr 27	9.59		
Oct 1	11.89		
Apr 1, 1961	12.90		
Oct 4	12.10		
Apr 12, 1962	12.09		
Jul 12	13.35		
Sep 24	14.25		
Mar 28, 1963	15.89		
Oct 1	16.78		
Mar 31, 1964	18.32		
Oct 13	18.69		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-36aab1

Elevation of land surface 575.7 ft

Date	Water level	Date	Water level
Jun 25, 1957	31.11	Jul 7	31.34
Aug 21	31.61	Jul 28	31.50
Oct 15	32.19	Nov 17	30.57
Nov 26	32.30	Jul 12, 1962	29.32
Dec 18	32.39	Oct 1, 1963	30.48
Dec 27	32.50		
Jan 21, 1958	33.87		
Jan 30	33.79		
Feb 13	32.58		
Mar 4	32.66		
Mar 17	32.63		
Mar 25	32.66		
Apr 8	33.62		
Apr 23	32.08		
May 7	31.67		
Aug 14	30.80		
Sep 3	30.90		
Oct 29	32.12		
Jan 15, 1959	32.33		
Mar 3	32.23		
Apr 8	32.01		
Apr 15	32.05		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-18E-36bbb1

Elevation of land surface 579.8 ft

Date	Water level	Date	Water level
Jan 15, 1959	43.67		
Nov 17	41.40		
Feb 2, 1960	37.79		
Apr 27	38.30		
Oct 1	39.12		
Apr 1, 1961	43.55		
Oct 5	42.25		
Apr 12, 1962	41.50		
Jul 12	41.78		
Sep 24	43.10		
Mar 28, 1963	45.30		
Oct 1	21.73		
Mar 31, 1964	47.04		
Oct 13	47.56		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-19E-19ccc1

Elevation of land surface 515.8 ft

Date	Water level	Date	Water level
Jan 15, 1959	10.38		
Apr 15	9.16		
Jul 28	5.15		
Nov 17	6.89		
Feb 2, 1960	5.86		
Apr 27	5.28		
Oct 1	8.53		
Apr 1, 1961	6.79		
Oct 5	6.30		
Apr 12, 1962	5.30		
Jul 13	6.29		
Sep 24	8.01		
Mar 28, 1963	10.57		
Oct 1	12.95		
Mar 31, 1964	13.30		
Oct 13	14.83		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-19E-20baa1

Elevation of land surface 536.3 ft

Date	Water level	Date	Water level
Jul 28, 1959	12.30		
Nov 19	12.09		
Feb 3, 1960	10.86		
Apr 27	9.58		
Sep 27	11.40		
Apr 1, 1961	10.52		
Oct 5	10.16		
Apr 12, 1962	7.88		
Jul 31	9.70		
Sep 25	10.18		
Mar 28, 1963	10.85		
Oct 1	12.93		
Mar 31, 1964	13.55		
Oct 13	14.22		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-19E-20dbcl

Elevation of land surface 531.4 ft

Date	Water level	Date	Water level
Jan 14, 1959	13.60		
Apr 16	10.28		
Jul 29	9.70		
Nov 17	8.97		
Feb 2, 1960	8.46		
Apr 27	5.12		
Sep 27	12.88		
Apr 1, 1961	8.65		
Oct 5	12.45		
Apr 12, 1962	8.92		
Jul 31	12.40		
Sep 25	12.89		
Mar 28, 1963	12.16		
Oct 1	13.92		
Oct 13, 1964	15.14		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-19E-30abb1

Elevation of land surface 515.1 ft

Date	Water level	Date	Water level
Jan 14, 1959	10.99		
Apr 15	11.33		
Jul 28	6.98		
Nov 17	5.15		
Feb 2, 1960	4.32		
Apr 27	5.37		
Oct 1	8.56		
Apr 1, 1961	9.24		
Oct 5	7.60		
Apr 12, 1962	8.28		
Jul 13	9.27		
Sep 24	11.11		
Mar 28, 1963	13.90		
Oct 1	16.52		
Mar 31, 1964	17.33		
Oct 13	18.55		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-19E-31abd1

Elevation of land surface 515.3 ft

Date	Water level	Date	Water level
Jan 15, 1959	14.35		
Apr 15	13.90		
Jul 28	7.28		
Nov 17	5.28		
Apr 28, 1960	6.98		
Oct 1	10.97		
Apr 1, 1961	10.80		
Oct 5	11.57		
Apr 12, 1962	12.10		
Aug 13	15.18		
Sep 25	13.68		
Mar 28, 1963	18.80		
Oct 1	Dry at 19.30		
Mar 31, 1964	Dry at 18.60		
Oct 13	Dry at 25.00		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-19E-31ccd1

Elevation of land surface 514.4 ft

Date	Water level	Date	Water level
Jan 15, 1959	23.13		
Apr 15	23.15		
Jul 28	20.20		
Nov 17	19.94		
Feb 2, 1960	20.95		
Apr 27	21.25		
Oct 1	22.06		
Apr 1, 1961	21.23		
Oct 5	20.05		
Apr 12, 1962	22.38		
Jul 12	21.18		
Sep 24	21.49		
Mar 28, 1963	23.40		
Oct 1	23.55		
Mar 31, 1964	24.75		
Oct 13	24.33		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 16N-19E-32dec2

Elevation of land surface 505.5 ft

Date	Water level	Date	Water level
Jan 14, 1959	7.62		
Apr 15	4.89		
Jul 29	3.58		
Nov 17	2.20		
Feb 3, 1960	1.89		
Apr 27	2.30		
Oct 2	8.43		
Oct 5, 1961	5.22		
Apr 12, 1962	3.95		
Jul 31	6.82		
Sep 25	11.95		
Mar 28, 1963	7.14		
Oct 1	7.29		
Mar 31, 1964	7.85		
Oct 12	10.93		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 16N-19E-33bcc1

Elevation of land surface 519.2 ft

Date	Water level	Date	Water level
Jan 14, 1959	8.50		
Apr 15	5.40		
Jul 29	4.24		
Nov 17	4.08		
Feb 3, 1960	1.18		
Apr 27	1.97		
Oct 2	5.71		
Apr 1, 1961	7.00		
Oct 5	5.46		
Apr 12, 1962	3.36		
Jul 31	4.07		
Sep 25	5.85		
Mar 28, 1963	6.45		
Oct 1	8.36		
Mar 31, 1964	10.11		
Oct 12	11.23		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-4ccc1

Elevation of land surface 520.8 ft

Date	Water level	Date	Water level
Jan 14, 1959	16.37		
Apr 15	16.49		
Aug 7	10.99		
Nov 19	9.71		
May 2, 1960	8.06		
Oct 1	10.73		
Apr 1, 1961	10.55		
Oct 9	7.10		
Apr 12, 1962	4.64		
Jun 25	4.87		
Sep 24	7.35		
Mar 27, 1963	6.00		
Oct 1	10.33		
Mar 30, 1964	12.33		
Oct 13	12.43		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-7dbc1

Elevation of land surface 524.9 ft

Date	Water level	Date	Water level
Jan 14, 1959	21.78		
Apr 15	21.34		
Feb 16, 1960	6.07		
May 2	3.68		
Oct 1	17.70		
Apr 1, 1961	14.97		
Oct 9	3.38		
Apr 12, 1962	5.24		
Jun 27	6.20		
Sep 24	11.07		
Mar 28, 1963	8.41		
Oct 1	18.75		
Mar 30, 1964	20.63		
Oct 13	21.94		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-9ccc1

Elevation of land surface 526.3 ft

Date	Water level	Date	Water level
Jan 14, 1959	9.15	Aug 2	3.20
Apr 15	8.08	Aug 30	5.07
Aug 7	4.89	Nov 15	2.10
Nov 3	2.05	Jan 24, 1962	1.40
Nov 19	2.03	Feb 19	2.55
Dec 3	2.62	May 15	2.97
Feb 16, 1960	1.87	Jun 13	2.08
Mar 2	1.85	Aug 8	5.78
Mar 31	2.03	Aug 28	7.13
May 2	1.20	Sep 24	5.08
May 26	2.82	Oct 22	5.72
Jun 16	2.11	Nov 20	6.06
Jul 21	5.79	Dec 18	6.35
Aug 17	3.78	Jan 14, 1963	5.70
Sep 16	5.20	Feb 11	6.20
Oct 1	5.75	Mar 27	5.12
Nov 3	6.85	Apr 29	9.74
Jan 4, 1961	5.95	May 27	3.69
Mar 8	5.50	Jun 25	5.35
Apr 1	4.34	Jul 23	6.04
Jun 1	3.10	Aug 19	6.73
Jul 30	2.67	Sep 16	6.09

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-9ccc1--Cont'd

Elevation of land surface 526.3 ft

Date	Water level	Date	Water level
Oct 15, 1963	7.65		
Nov 13	8.82		
Dec 9	9.48		
Jan 6, 1964	9.99		
Feb 3	10.70		
Mar 2	10.00		
Mar 30	7.65		
Apr 27	6.40		
May 25	7.19		
Jun 22	6.40		
Jul 20	6.90		
Aug 19	8.68		
Sep 16	9.60		
Oct 13	10.50		
Nov 10	11.51		
Dec 7	9.45		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-10cbe1

Elevation of land surface 522.1 ft

Date	Water level	Date	Water level
Dec 1, 1958	10.98	Mar 8	7.89
Dec 30	11.17	Apr 1	7.00
Jan 14, 1959	11.15	May 4	6.39
Mar 3	11.40	Jun 30	1.60
Apr 8	9.71	Aug 2	2.21
Apr 15	9.69	Aug 30	2.90
Jul 2	8.37	Sep 27	1.22
Aug 7	2.04	Oct 9	1.30
Aug 31	3.90	Oct 25	1.80
Nov 3	.68	Nov 15	1.60
Nov 19	1.39	Dec 13	1.83
Feb 16, 1960	2.04		
Mar 31	1.75	Jan 24, 1962	1.61
May 2	1.85	Feb 19	2.16
May 26	1.74	Mar 21	1.95
Jul 21	4.64	Apr 9	2.02
Aug 17	4.20	May 15	2.53
Sep 16	5.92	Jun 13	2.48
Oct 1	6.65	Aug 8	3.72
Nov 3	7.49	Aug 28	4.29
Dec 2	8.40	Sep 24	3.65
Jan 4, 1961	7.98	Oct 22	3.82
Feb 8	8.09	Nov 20	6.83

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-10cbc1--Cont'd

Elevation of land surface 522.1 ft

Date	Water level	Date	Water level
Dec 18, 1962	4.70	Sep 16	8.27
Jan 14, 1963	4.46	Oct 13	8.90
Feb 11	4.82	Nov 10	9.22
Mar 27	4.39	Dec 7	9.25
Apr 29	4.08		
May 27	4.27		
Jun 25	4.58		
Jul 23	6.04		
Aug 19	5.55		
Sep 16	6.18		
Oct 15	6.93		
Nov 12	8.13		
Dec 9	8.53		
Jan 6, 1964	9.19		
Feb 3	9.84		
Mar 2	10.01		
Mar 30	10.33		
Apr 27	8.50		
May 25	8.37		
Jun 22	7.49		
Jul 20	7.75		
Aug 19	8.14		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-15dad1

Elevation of land surface 543.6 ft

Date	Water level	Date	Water level
Nov 19, 1959	31.26		
Feb 10, 1960	30.93		
May 2	30.87		
Oct 1	30.25		
Apr 1, 1961	30.18		
Oct 9	29.64		
Apr 12, 1962	29.20		
Jul 4	28.80		
Sep 25	28.58		
Mar 28, 1963	28.62		
Oct 1	28.95		
Mar 30, 1964	29.28		
Oct 13	29.71		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-16cab1

Elevation of land surface 534.1 ft

Date	Water level	Date	Water level
Jan 14, 1959	17.26		
Apr 15	19.17		
Aug 7	19.07		
Aug 31	19.11		
Nov 19	19.12		
Feb 16, 1960	18.87		
May 2	18.61		
Oct 1	16.50		
Apr 1, 1961	18.20		
Oct 9	17.94		
Apr 12, 1962	17.65		
Jun 29	17.46		
Sep 24	17.56		
Mar 28, 1963	17.52		
Oct 1	17.92		
Mar 30, 1964	18.07		
Oct 13	18.43		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-16ccc1

Elevation of land surface 532.0 ft

Date	Water level	Date	Water level
Jan 14, 1959	19.18		
Apr 15	19.22		
Aug 7	18.82		
Nov 19	18.50		
Feb 16, 1960	17.85		
May 2	16.93		
Oct 1	17.81		
Apr 1, 1961	18.25		
Oct 9	17.21		
Apr 12, 1962	15.83		
Jun 29	15.84		
Sep 25	17.31		
Mar 28, 1963	16.54		
Oct 1	18.23		
Mar 30, 1964	19.19		
Oct 13	19.50		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-17acc1

Elevation of land surface 534.7 ft

Date	Water level	Date	Water level
Dec 1, 1958	26.17	Jan 4, 1961	22.20
Dec 30	26.66	Feb 8	21.72
Jan 14, 1959	26.90	Mar 8	20.83
Mar 3	27.12	Apr 1	19.95
Apr 8	26.99	May 4	18.50
Apr 15	26.87	Jun 1	12.23
Jul 2	23.65	Jun 30	13.49
Aug 7	22.39	Aug 2	15.30
Nov 19	17.35	Aug 30	16.43
Dec 3	18.04	Sep 27	16.63
Feb 10, 1960	16.45	Oct 9	15.44
Mar 2	16.39	Oct 25	15.12
Mar 31	15.55	Nov 15	14.90
May 2	15.62	Dec 13	3.76
May 26	14.88	Jan 24, 1962	14.20
Jun 16	14.82	Feb 19	13.84
Jul 21	16.46	Mar 21	13.27
Aug 17	16.45	Apr 9	13.27
Sep 16	17.16	May 15	13.43
Oct 1	17.52	Jun 13	15.61
Nov 2	23.67	Aug 8	18.70
Dec 2	23.09	Aug 28	21.55

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-17acc1--Cont'd

Elevation of land surface 534.7 ft

Date	Water level	Date	Water level
Sep 24, 1962	19.76	Jun 22	19.12
Oct 22	18.10	Jul 20	20.15
Nov 20	17.74	Aug 19	22.97
Dec 18	17.59	Sep 16	23.67
Jan 14, 1963	17.32	Oct 13	24.09
Feb 11	17.09	Nov 10	24.53
Mar 28	16.50	Dec 7	24.19
Apr 29	16.21		
May 27	16.09		
Jun 25	15.48		
Jul 23	20.04		
Aug 19	21.37		
Sep 16	22.32		
Oct 15	22.92		
Nov 12	24.10		
Dec 9	24.06		
Jan 6, 1964	24.12		
Feb 3	24.21		
Mar 3	24.23		
Mar 30	23.53		
Apr 27	20.16		
May 25	19.16		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-18dba1

Elevation of land surface 522.0 ft

Date	Water level	Date	Water level
Jan 14, 1959	18.16	Jun 30	5.69
Apr 15	17.02	Aug 2	6.55
Aug 7	12.10	Aug 30	7.94
Nov 19	9.90	Sep 27	6.55
Feb 16, 1960	8.32	Oct 9	5.60
Mar 1	8.09	Oct 25	5.52
Mar 30	7.32	Nov 15	4.75
May 2	7.16	Dec 13	4.46
May 26	6.52	Jan 24, 1962	3.74
Jun 16	6.57	Feb 19	3.65
Jul 21	10.77	Apr 9	2.94
Aug 17	9.87	May 16	3.20
Sep 16	11.87	Jun 13	4.30
Oct 1	12.96	Aug 8	16.53
Nov 3	13.78	Aug 28	15.09
Dec 2	13.90	Sep 24	13.54
Jan 4, 1961	13.27	Oct 22	11.97
Feb 8	12.87	Nov 20	10.90
Mar 8	12.45	Dec 18	10.07
Apr 8	11.40	Jan 14, 1963	9.37
May 4	10.68	Feb 11	8.72
June 1	4.92	Mar 28	7.80

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-20dbc1

Elevation of land surface 528.8 ft

Date	Water level	Date	Water level
Jan 14, 1959	15.43		
Apr 15	15.22		
Aug 7	14.36		
Nov 19	14.15		
Feb 16, 1960	13.73		
May 2	12.80		
Oct 1	13.52		
Apr 1, 1961	13.65		
Oct 9	12.43		
Apr 12, 1962	11.35		
Jun 29	11.27		
Sep 25	12.20		
Mar 28, 1963	11.65		
Oct 1	13.52		
Mar 30, 1964	14.53		
Oct 14	14.99		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-22ada1

Elevation of land surface 525.5 ft

Date	Water level	Date	Water level
Jan 14, 1959	24.00		
Apr 15	24.34		
Aug 7	24.39		
Nov 19	22.84		
Feb 16, 1960	22.37		
May 2	21.85		
Oct 1	21.22		
Apr 1, 1961	22.30		
Oct 9	19.30		
Apr 12, 1962	18.43		
Jul 4	18.62		
Sep 25	19.69		
Mar 28, 1963	20.78		
Oct 1	22.08		
Mar 30, 1964	23.18		
Oct 13	23.92		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-24bbb1

Elevation of land surface 517.6 ft

Date	Water level	Date	Water level
Jan 14, 1959	13.09		
Apr 15	13.33		
Nov 19	7.59		
Feb 16, 1960	5.52		
May 2	3.93		
Oct 1	11.19		
Apr 1, 1961	11.77		
Oct 9	6.17		
Apr 12, 1962	2.70		
Jul 4	8.20		
Sep 25	10.76		
Mar 28, 1963	10.57		
Oct 1	13.29		
Mar 30, 1964	14.90		
Oct 13	15.15		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-24ccc1

Elevation of land surface 518.7 ft

Date	Water level	Date	Water level
Jan 14, 1959	21.44		
Apr 15	21.50		
Aug 7	12.40		
Nov 19	20.37		
Feb 16, 1960	18.57		
Oct 1	19.10		
Apr 1, 1961	19.58		
Oct 9	16.29		
Apr 12, 1962	22.86		
Jul 5	15.65		
Sep 25	17.26		
Mar 27, 1963	17.19		
Oct 1	19.45		
Mar 30, 1964	20.18		
Oct 13	20.67		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-24dcd1

Elevation of land surface 517.9 ft

Date	Water level	Date	Water level
Jan 14, 1959	15.53		
Apr 15	15.29		
Aug 7	15.03		
Nov 19	13.38		
Feb 16, 1960	12.43		
May 2	11.17		
Oct 1	13.69		
Apr 1, 1961	14.17		
Oct 9	12.48		
Apr 12, 1962	9.35		
Jul 4	9.71		
Sep 25	13.74		
Mar 27, 1963	12.47		
Oct 1	15.17		
Mar 30, 1964	16.02		
Oct 13 . . .	16.89		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-26ccb1

Elevation of land surface 518.8 ft

Date	Water level	Date	Water level
Jan 14, 1959	14.48		
Apr 15	12.83		
Aug 7	4.06		
Nov 19	3.42		
Feb 16, 1960	3.15		
May 2	4.23		
Oct 1	10.91		
Apr 1, 1961	8.64		
Oct 9	3.64		
Apr 12, 1962	6.13		
Jul 4	6.54		
Mar 28, 1963	16.90		
Oct 1	13.38		
Mar 30, 1964	14.77		
Oct 13	14.53		

Table .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-28bba1

Elevation of land surface 548.7 ft

Date	Water level	Date	Water level
Aug 14, 1958	13.63	Oct 1	14.44
Sep 2	13.71	Mar 30, 1964	17.07
Sep 30	14.05	Oct 13	16.33
Oct 29	14.36		
Dec 1	14.69		
Dec 30	15.07		
Jan 15, 1959	15.16		
Mar 3	15.45		
Apr 8	16.53		
Apr 15	16.73		
Jul 2	15.19		
Aug 7	14.66		
Nov 19	14.27		
Feb 16, 1960	10.98		
May 2	10.17		
Oct 1	13.22		
Apr 1, 1961	14.79		
Oct 9	14.58		
Apr 12, 1962	13.28		
Aug 16	13.35		
Sep 25	13.42		
Mar 28, 1963	14.64		

Table 3 --Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-33aaa1

Elevation of land surface 518.6 ft

Date	Water level	Date	Water level
Aug 7, 1959	.24		
Nov 19	+.56		
Feb 16, 1960	+.29		
May 2	+.34		
Oct 1	3.00		
Apr 1, 1961	2.47		
Oct 9	2.17		
Apr 12, 1962	+.14		
Jun 29	.59		
Sep 25	2.92		
Mar 28, 1963	1.12		
Oct 1	8.48		
Mar 30, 1964	8.87		
Oct 13	9.93		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-35aabl

Elevation of land surface 517.0 ft

Date	Water level	Date	Water level
Jan 14, 1959	6.70		
Apr 15	5.17		
Aug 7	2.00		
Nov 19	1.52		
Feb 16, 1960	1.26		
May 2	1.45		
Oct 1	5.52		
Apr 1, 1961	3.25		
Oct 9	1.30		
Apr 12, 1962	.86		
Jul 5	2.03		
Sep 25	2.49		
Mar 28, 1963	2.52		
Oct 1	6.59		
Mar 30, 1964	6.60		
Oct 13	8.62		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-36aab1

Elevation of land surface 521.7 ft

Date	Water level	Date	Water level
Jan 14, 1959	23.38		
Apr 15	23.58		
Aug 7	23.54		
Nov 19	23.46		
Feb 16, 1960	23.40		
May 2	23.47		
Oct 1	23.16		
Apr 1, 1961	23.12		
Oct 9	22.76		
Apr 12, 1962	22.74		
Jul 5	22.57		
Sep 25	22.52		
Mar 28, 1963	23.02		
Oct 1	22.52		
Mar 30, 1964	22.78		
Oct 13	22.76		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-17E-36daa1

Elevation of land surface 517.1 ft

Date	Water level	Date	Water level
Jan 14, 1959	19.83		
Apr 15	20.10		
Aug 7	20.18		
Nov 19	19.56		
Feb 16, 1960	19.34		
May 2	19.16		
Oct 1	19.21		
Apr 1, 1961	19.59		
Oct 9	18.39		
Apr 12, 1962	18.22		
Jul 5	18.02		
Sep 25	18.67		
Mar 27, 1963	18.63		
Oct 1	19.50		
Mar 30, 1964	19.95		
Oct 13	20.42		

Table 3.--Depth to water in feet below land surface

County WAGONER Well No. 17N-18E-31bba1
 Elevation of land surface 530.4 ft

Date	Water level	Date	Water level
Jul 11, 1957	4.68	Jul 2	5.25
Aug 21	6.68	Aug 7	5.91
Oct 16	7.67	Nov 19	4.09
Nov 26	6.27	Feb 16, 1960	3.42
Dec 18	6.30	May 2	3.20
Dec 27	6.08	Oct 1	6.16
Jan 21, 1958	6.08	Apr 1, 1961	3.69
Jan 30	5.22	Oct 9	5.00
Feb 13	4.88	Apr 12, 1962	3.35
Mar 4	4.93	Jul 5	4.95
Mar 17	3.63	Sep 25	4.96
Mar 25	3.70	Mar 28, 1963	4.25
Apr 8	3.64	Oct 1	8.00
Apr 23	2.57	Mar 30, 1964	7.20
May 7	3.17	Oct 13	8.27
Aug 14	6.43		
Sep 3	7.08		
Sep 30	8.00		
Oct 29	7.69		
Jan 14, 1959	7.39		
Mar 3	7.22		
Apr 15	4.82		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 17N-18E-31ddc1

Elevation of land surface 515.1 ft

Date	Water level	Date	Water level
Jan 14, 1959	21.84		
Apr 15	22.84		
Aug 7	21.31		
Feb 16, 1960	19.40		
Oct 1	19.35		
Apr 1, 1961	19.60		
Oct 9	16.77		
Apr 12, 1962	15.68		
Jul 9	15.77		
Sep 25	16.92		
Mar 28, 1963	16.82		
Oct 1	18.23		
Mar 30, 1964	19.15		
Oct 13	19.64		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 18N-16E-1aaa1

Elevation of land surface 540.1 ft

Date	Water level	Date	Water level
Jul 10, 1957	12.10	Jun 2	16.88
Aug 21	15.48	Nov 18	9.24
Oct 16	16.79	Feb 16, 1960	8.38
Nov 26	16.72	May 2	6.25
Dec 18	18.40	Sep 28	12.45
Dec 27	18.37	Apr 1, 1961	13.66
Jan 30, 1958	18.00	Oct 11	5.05
Feb 13	17.66	Apr 12, 1962	1.35
Mar 4	17.45	Mar 27, 1963	4.22
Mar 17	15.63	Oct 1	13.63
Mar 25	15.08	Mar 30, 1964	15.10
Apr 23	12.55	Oct 14	15.52
May 7	12.96		
Sep 3	15.05		
Sep 30	15.75		
Oct 29	16.36		
Dec 1	16.75		
Dec 30	16.96		
Jan 16, 1959	17.00		
Mar 3	15.08		
Apr 8	17.21		
Apr 15	17.12		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 18N-16E-11daa1

Elevation of land surface 540.1 ft

Date	Water level	Date	Water level
Jan 16, 1959	14.51		
Apr 22	14.98		
Aug 7	15.86		
Nov 18	3.30		
Feb 16, 1960	1.98		
May 2	1.65		
Sep 28	8.32		
Apr 1, 1961	6.15		
Oct 11	1.04		
Apr 12, 1962	1.60		
Jul 4	3.32		
Sep 27	2.65		
Mar 28, 1963	2.20		
Oct 1	10.21		
Mar 30, 1964	12.05		
Oct 14	12.35		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 18N-16E-12abb1

Elevation of land surface 540.0 ft

Date	Water level	Date	Water level
Jan 16, 1959	12.21		
Apr 15	12.02		
Aug 12	11.08		
Feb 16, 1960	1.82		
May 2	1.48		
Sep 28	5.75		
Apr 1, 1961	5.67		
Oct 11	1.38		
Apr 12, 1962	1.66		
Jul 16	4.70		
Sep 27	3.57		
Mar 28, 1963	4.90		
Sep 30	10.49		
Mar 30, 1964	13.15		
Oct 14	14.76		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 18N-16E-12bbb1

Elevation of land surface 559.1 ft

Date	Water level	Date	Water level
Jan 16, 1959	17.50		
Apr 15	18.20		
Aug 12	13.62		
Nov 18	4.17		
Feb 16, 1960	3.82		
May 2	3.68		
Sep 28	9.31		
Apr 1, 1961	4.12		
Oct 11	4.36		
Apr 12, 1962	4.80		
Mar 28, 1963	5.75		
Oct 1	11.10		
Mar 30, 1964	16.55		
Oct 14	11.08		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 18N-16E-13aabl

Elevation of land surface 534.6 ft

Date	Water level	Date	Water level
Jan 16, 1959	22.24		
Apr 15	22.85		
Aug 12	22.50		
Nov 18	20.22		
Feb 16, 1960	17.32		
May 2	17.00		
Sep 28	18.86		
Apr 1, 1961	19.68		
Oct 11	7.62		
Apr 12, 1962	1.95		
Jul 4	7.22		
Sep 27	15.38		
Mar 28, 1963	15.39		
Oct 1	21.37		
Oct 14, 1964	Dry at 19.00		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 18N-16E-13bbb1

Elevation of land surface 533.4 ft

Date	Water level	Date	Water level
Jan 16, 1959	22.88		
Apr 22	22.66		
Aug 7	22.84		
Nov 18	22.49		
Feb 16, 1960	21.30		
May 2	20.50		
Sep 28	22.72		
Apr 1, 1961	22.18		
Oct 11	19.65		
Apr 12, 1962	16.27		
Jui 4	16.70		
Sep 26	20.29		
Mar 28, 1963	17.43		
Sep 30	22.54		
Mar 30, 1964	22.42		
Oct 14	23.34		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 18N-16E-13bcc1

Elevation of land surface 532.2 ft

Date	Water level	Date	Water level
Jan 16, 1959	21.11		
Apr 22	20.75		
Aug 7	17.52		
Nov 18	18.11		
Feb 16, 1960	17.22		
May 2	16.54		
Sep 28	20.27		
Apr 1, 1961	19.78		
Apr 12, 1962	13.60		
Jul 4	13.95		
Sep 26	17.47		
Mar 28, 1963	15.53		
Sep 30	21.00		
Mar 30, 1964	25.53		
Oct 14	22.48		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 18N-16E-14baa1

Elevation of land surface 537.3 ft

Date	Water level	Date	Water level
Jan 16, 1959	16.91		
Apr 22	16.90		
Aug 7	17.60		
Nov 18	17.40		
Feb 16, 1960	16.36		
May 2	14.92		
Sep 28	16.78		
Apr 1, 1961	16.11		
Oct 11	8.23		
Apr 12, 1962	12.35		
Jul 4	13.35		
Sep 26	16.80		
Mar 28, 1963	13.37		
Sep 30	16.24		
Mar 30, 1964	14.79		
Oct 14	17.06		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 18N-16E-23bbb1

Elevation of land surface 558.8 ft

Date	Water level	Date	Water level
Jan 16, 1959	11.46		
Apr 15	12.43		
Aug 12	11.67		
Nov 18	10.82		
Feb 16, 1960	10.27		
May 2	8.09		
Sep 28	9.47		
Apr 1, 1961	12.86		
Oct 11	8.65		
Apr 12, 1962	8.20		
Jun 16	8.20		
Sep 27	8.24		
Mar 28, 1963	16.50		
Oct 1	19.62		
Mar 30, 1964	13.79		
Oct 14	15.72		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 18N-17E-6aad1

Elevation of land surface 539.8 ft

Date	Water level	Date	Water level
Apr 22, 1959	20.52		
Aug 7	19.48		
Nov 18	15.78		
Feb 16, 1960	14.46		
May 2	13.61		
Sep 28	16.01		
Apr 1, 1961	15.93		
Oct 11	12.25		
Apr 12, 1962	11.20		
Jun 26	11.76		
Sep 25	14.55		
Mar 27, 1963	13.07		
Oct 1	17.63		
Mar 30, 1964	19.14		
Oct 14	20.13		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 18N-17E-29aba1

Elevation of land surface 546.1 ft

Date	Water level	Date	Water level
Jan 14, 1959	17.90		
Apr 15	18.05		
Aug 7	17.76		
Nov 19	16.25		
Feb 15, 1960	13.50		
May 2	14.10		
Oct 1	15.26		
Apr 1, 1961	15.70		
Oct 9	14.54		
Apr 12, 1962	14.07		
June 26	14.17		
Sep 24	14.89		
Mar 27, 1963	15.86		
Oct 1	16.75		
Mar 30, 1964	17.57		
Oct 13	18.00		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 18N-17E-29cbcl

Elevation of land surface 547.7 ft

Date	Water level	Date	Water level
Jan 14, 1959	24.45		
Apr 15	23.58		
Aug 7	23.16		
Nov 19	23.50		
Feb 16, 1960	23.25		
May 2	23.13		
Oct 1	22.86		
Apr 1, 1961	22.82		
Oct 9	22.02		
Apr 12, 1962	21.98		
Jun 25	21.73		
Sep 24	21.70		
Mar 27, 1963	21.55		
Oct 1	22.03		
Mar 30, 1964	22.35		
Oct 13	22.79		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 18N-17E-29dccc1

Elevation of land surface 538.6 ft

Date	Water level	Date	Water level
Jan 14, 1959	9.55		
Apr 15	8.86		
Aug 7	4.59		
Nov 19	5.40		
Feb 16, 1960	4.55		
May 2	4.81		
Oct 1	7.09		
Apr 1, 1961	6.63		
Oct 9	5.34		
Apr 12, 1962	4.78		
Jun 26	5.81		
Sep 24	6.52		
Mar 27, 1963	6.98		
Oct 1	9.48		
Mar 30, 1964	10.35		
Oct 13	11.15		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 18N-17E-31daa1

Elevation of land surface 536.6 ft

Date	Water level	Date	Water level
Jan 14, 1959	17.00		
Apr 15	17.20		
Aug 7	17.26		
Nov 19	15.55		
Feb 16, 1960	14.70		
May 2	13.72		
Oct 1	14.23		
Apr 1, 1961	14.81		
Apr 12, 1962	12.42		
Jun 25	12.43		
Sep 24	12.52		
Mar 27, 1963	14.05		
Oct 1	15.13		
Mar 30, 1964	15.75		
Oct 13	16.04		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 19N-16E-4bba1

Elevation of land surface 554.7 ft

Date	Water level	Date	Water level
Jan 16, 1959	16.04	Aug 30	10.50
Apr 15	15.83	Oct 11	9.80
Aug 12	14.69	Oct 25	10.81
Nov 18	11.39	Nov 15	10.81
Feb 16, 1960	11.35	Dec 14	10.63
Mar 2	11.36	Jan 24, 1962	10.02
Mar 31	10.52	Feb 19	9.28
May 2	10.30	Mar 21	9.42
May 26	9.84	Apr 9	7.80
Jul 21	12.85	May 16	7.95
Aug 17	7.72	Jun 13	9.63
Sep 16	13.79	Aug 8	11.86
Sep 28	14.20	Aug 28	13.54
Nov 3	14.70	Sep 26	11.88
Dec 2	14.63	Oct 22	11.98
Jan 4, 1961	14.30	Nov 19	12.48
Feb 8	14.19	Dec 18	12.10
Mar 8	17.66	Jan 14, 1963	12.21
May 4	12.89	Feb 11	11.06
May 31	8.89	Mar 27	11.79
Jun 30	9.91	Apr 29	11.48
Aug 2	9.66	May 27	11.85

Table 3.--Depth to water in feet below land surface

County ROGERS

Well No. 19N-16E-4bba1--Cont'd

Elevation of land surface 554.7 ft

Date	Water level	Date	Water level
Jun 25, 1963	12.93		
Jul 23	14.20		
Aug 19	24.75		
Sep 16	15.30		
Oct 14	15.89		
Nov 12	15.97		
Dec 9	15.50		
Jan 6, 1964	15.48		
Feb 3	15.60		
Mar 2	15.25		
Mar 30	15.20		
Apr 27	14.25		
May 25	15.19		
Jun 22	15.23		
Jul 20	15.98		
Aug 19	16.61		
Sep 16	16.72		
Oct 14	15.98		
Nov 10	16.63		
Dec 8	15.96		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-5aaa1

Elevation of land surface 555.6 ft

Date	Water level	Date	Water level
Jul 10, 1957		May 2	11.55
Aug 21	14.93	May 26	10.12
Oct 16	20.75	Jun 16	11.50
Nov 26	20.77	Jul 21	15.48
Dec 18	21.07	Aug 17	15.88
Dec 27	21.13	Sep 16	18.25
Jan 30, 1958	20.34	Sep 28	19.14
Feb 13	19.97	Nov 3	21.35
Mar 4	18.63	Dec 2	21.08
Mar 25	9.73	Jan 4, 1961	19.61
Apr 8	8.30	Feb 8	20.17
May 7	10.61	Mar 8	20.27
Jan 16, 1959	24.08	Apr 1	17.71
Apr 8	24.20	May 4	18.48
Apr 15	24.32	May 31	6.08
Jul 1	24.05	Jun 30	10.88
Aug 31	19.66	Aug 2	11.18
Oct 30	6.25	Aug 30	14.90
Nov 18	12.20	Oct 11	12.46
Feb 16, 1960	11.55	Oct 25	14.91
Mar 3	12.52	Nov 15	13.61
Mar 31	11.08	Dec 1	14.29

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-5aaa1--Cont'd

Elevation of land surface 555.6 ft

Date	Water level	Date	Water level
Jan 4, 1962	14.35	Dec 1	25.22
Feb 19	14.87	Jan 6, 1964	25.41
Mar 21	15.30	Feb 3	25.58
Apr 9	13.42	Mar 2	25.73
May 16	14.16	Mar 30	25.84
Aug 8	19.52	Apr 27	23.88
Aug 28	20.94	May 25	23.65
Sep 26	16.40	Jun 22	23.15
Oct 22	16.25	Jul 20	24.27
Nov 19	17.70	Aug 19	25.48
Dec 18	18.16	Sep 16	26.58
Jan 14, 1963	18.54	Oct 14	26.30
Feb 11	19.12	Nov 10	26.57
Mar 27	18.14	Dec 8	25.57
Apr 29	18.45		
May 27	19.28		
Jun 25	20.86		
Jul 23	22.15		
Aug 19	14.40		
Sep 16	23.96		
Oct 15	24.55		
Nov 13	25.04		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-5aba1

Elevation of land surface 549.5 ft

Date	Water level	Date	Water level
Oct 24, 1958	18.87	Apr 1	4.70
Jan 16, 1959	19.15	May 4	3.55
Apr 15	17.95	May 31	1.68
Aug 7	5.33	Jun 30	2.94
Aug 31	9.78	Aug 2	2.87
Oct 30	2.35	Aug 30	6.10
Nov 18	1.92	Sep 28	1.56
Feb 16	1.68	Oct 11	1.64
Mar 2	1.26	Oct 25	2.16
Mar 31	1.15	Nov 15	1.82
May 2	1.28	Dec 14	1.32
May 26	1.49	Jan 24, 1962	1.09
Jun 16	2.40	Feb 19	1.13
Jun 21	6.60	Mar 20	1.08
Aug 17	5.25	Apr 9	1.00
Sep 16	9.11	May 16	2.73
Sep 28	10.82	Jun 13	4.63
Nov 3	12.60	Aug 8	10.95
Dec 2	12.78	Aug 28	13.59
Jan 4, 1961	10.17	Sep 26	7.57
Feb 8	9.60	Oct 22	6.15
Mar 8	7.92	Nov 19	6.38

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-5aba1--Cont'd

Elevation of land surface 549.5 ft

Date	Water level	Date	Water level
Dec 18, 1962	6.15	Sep 16	18.22
Jan 14, 1963	4.09	Oct 14	18.75
Feb 11	6.15	Nov 10	18.99
Mar 27	14.68	Dec 8	18.39
Apr 29	4.61		
May 27	7.12		
Jun 25	11.03		
Jul 23	14.19		
Aug 19	15.90		
Sep 16	17.06		
Oct 14	17.99		
Nov 12	18.56		
Dec 9	18.59		
Jan 6, 1964	18.69		
Feb 3	18.38		
Mar 2	18.95		
Mar 30	18.15		
Apr 27	12.98		
May 25	12.65		
Jun 22	13.13		
Jul 20	15.18		
Aug 19	16.74		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-5baa1

Elevation of land surface 548.9 ft

Date	Water level	Date	Water level
Oct 24, 1958	12.03	May 31	2.83
Jan 16, 1959	17.02	Jun 30	4.70
Apr 22	15.61	Aug 2	4.55
Aug 7	6.48	Aug 30	7.47
Aug 31	11.30	Oct 11	4.84
Oct 30	5.30	Oct 25	4.15
Nov 18	4.45	Nov 15	3.26
Mar 2, 1960	2.93	Dec 13	2.53
Mar 31	2.60	Jan 24, 1962	1.90
May 2	1.68	Feb 19	2.48
May 26	3.20	Mar 20	2.07
Jun 16	4.49	Apr 9	1.80
Jul 21	8.58	May 15	3.68
Aug 17	7.55	Jun 13	4.83
Sep 16	10.81	Aug 8	10.70
Sep 28	11.77	Aug 28	13.75
Nov 3	12.36	Sep 26	7.42
Dec 2	12.01	Oct 22	6.61
Jan 4, 1961	10.32	Nov 19	7.60
Feb 8	10.28	Dec 18	7.31
Mar 8	9.43	Jan 14, 1963	6.87
May 4	6.18	Feb 11	7.32

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-5baa1--Cont'd

Elevation of land surface 548.9 ft

Date	Water level	Date	Water level
Mar 27, 1963	5.60	Dec 7	19.92
Apr 29	5.79		
May 27	5.97		
Jun 25	10.64		
Jul 23	14.13		
Aug 19	16.34		
Sep 16	18.00		
Oct 14	19.09		
Nov 12	19.89		
Dec 9	19.94		
Jan 6, 1964	19.78		
Feb 3	20.16		
Mar 2	20.01		
Mar 30	19.13		
Apr 27	14.68		
May 25	14.11		
Jun 22	13.99		
Jul 20	15.53		
Aug 19	17.75		
Sep 16	19.06		
Oct 14	20.15		
Nov 10	20.41		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-5bba1

Elevation of land surface 550.3 ft

Date	Water level	Date	Water level
Oct 24, 1958	16.39	Jun 30	7.80
Jan 16, 1959	18.39	Aug 2	8.26
Apr 22	17.34	Aug 30	10.04
Aug 7	13.63	Oct 11	7.24
Aug 31	15.32	Oct 25	7.60
Nov 3	11.38	Nov 15	7.10
Nov 18	10.70	Jan 24, 1962	5.86
Feb 16, 1960	8.93	Feb 19	5.58
Mar 31	7.50	Mar 21	4.99
May 2	7.38	Apr 9	4.61
May 26	7.62	Jun 13	7.73
Jul 21	11.95	Aug 8	12.28
Aug 17	10.78	Aug 28	14.80
Sep 16	13.70	Sep 26	11.12
Sep 28	14.50	Oct 22	10.06
Nov 3	14.78	Nov 19	9.91
Dec 2	14.37	Dec 18	9.44
Jan 4, 1961	13.05	Jan 14, 1963	9.50
Feb 8	13.69	Feb 11	9.65
Mar 8	12.08	Mar 27	7.90
May 4	9.58	Apr 29	9.26
Aug 31	6.31	May 27	8.82

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-5bba1--Cont'd

Elevation of land surface 550.3 ft

Date	Water level	Date	Water level
Jun 25, 1963	12.22		
Jul 23	14.80		
Aug 19	16.40		
Sep 16	17.70		
Oct 14	18.79		
Nov 12	20.57		
Dec 9	19.70		
Jan 6, 1964	19.93		
Feb 3	20.29		
Mar 2	20.22		
Mar 30	20.42		
Apr 28	16.49		
May 25	16.08		
Jun 22	15.99		
Jul 20	17.00		
Aug 19	18.63		
Sep 16	19.44		
Oct 14	20.10		
Nov 10	20.40		
Dec 8	19.37		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-5ccc1

Elevation of land surface 552.2 ft

Date	Water level	Date	Water level
Oct 24, 1958	16.82		
Jan 16, 1959	17.85		
Apr 22	18.13		
Aug 7	15.30		
Nov 18	6.89		
Feb 16, 1960	6.34		
May 2	6.60		
Sep 28	13.40		
Apr 1, 1961	12.08		
Oct 11	6.68		
Apr 12, 1962	7.40		
Jun 28	9.53		
Sep 26	9.42		
Mar 27, 1963	11.00		
Oct 1	17.37		
Mar 30, 1964	19.39		
Oct 14	20.50		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 19N-16E-9aaa1

Elevation of land surface 549.6 ft

Date	Water level	Date	Water level
Jan 16, 1959	19.42		
Apr 22	18.97		
Aug 7	19.54		
Nov 18	17.81		
Feb 16, 1960	15.84		
May 2	15.20		
Sep 28	18.59		
Apr 1, 1961	17.66		
Oct 1	16.76		
Apr 12, 1962	14.98		
Jun 26	15.79		
Sep 25	17.88		
Mar 27, 1963	15.95		
Oct 1	19.06		
Mar 30, 1964	18.53		
Oct 14	19.51		

Table 3. -- Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-14ccc1

Elevation of land surface 547.8 ft

Date	Water level	Date	Water level
Jan 16, 1959	9.45		
Apr 22	8.19		
Aug 7	8.56		
Nov 18	2.23		
Feb 16, 1960	.98		
May 2	1.62		
Sep 28	6.98		
Apr 1, 1961	5.85		
Oct 11	3.13		
Apr 12, 1962	1.99		
Jul 3	3.65		
Sep 26	5.97		
Mar 26, 1963	2.90		
Sep 30	11.12		
Mar 30, 1964	11.24		
Oct 14	11.55		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-15aad1

Elevation of land surface 549.1 ft

Date	Water level	Date	Water level
Jan 16, 1959	15.30		
Apr 22	17.25		
Aug 7	14.51		
Nov 18	1.61		
Feb 16, 1960	.98		
May 2	.80		
Sep 28	7.00		
Apr 1, 1961	5.89		
Oct 11	3.42		
Apr 12, 1962	1.78		
Jul 3	4.78		
Sep 26	1.95		
Mar 26, 1963	2.42		
Oct 1	3.16		
Mar 30, 1964	3.72		
Oct 14	4.20		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-16daa1

Elevation of land surface 547.2 ft

Date	Water level	Date	Water level
Jan 16, 1959	23.10		
Apr 15	22.70		
Aug 12	22.95		
Nov 18	8.05		
Feb 16, 1960	2.50		
May 2	1.05		
Sep 28	10.84		
Apr 1, 1961	9.26		
Oct 11	2.30		
Apr 12, 1962	1.18		
Jul 3	5.73		
Sep 26	3.40		
Mar 27, 1963	5.30		
Oct 1	14.64		
Mar 30, 1964	16.48		
Oct 14	Dry at 16.90		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-17aba1

Elevation of land surface 548.3 ft

Date	Water level	Date	Water level
Nov 26, 1957	23.81	Aug 12	25.22
Dec 18	23.96	Nov 18	7.39
Dec 27	23.49	Feb 16, 1960	11.89
Jan 30, 1958	22.52	May 2	11.75
Feb 13	22.54	Sep 28	25.63
Mar 4	22.47	Apr 1, 1961	18.15
Mar 17	21.64	Oct 11	13.45
Mar 25	21.21	Apr 12, 1962	4.48
Apr 8	21.02	Jul 14	25.20
Apr 23	19.52	Sep 26	15.88
May 7	18.41	Mar 27, 1963	11.42
Aug 14	21.88	Oct 1	22.45
Sep 2	23.57	Mar 30, 1964	23.50
Sep 30	22.93	Oct 14	21.50
Oct 29	22.20		
Dec 1	22.07		
Dec 30	21.75		
Jan 16, 1959	20.65		
Mar 3	23.28		
Apr 8	24.29		
Apr 15	26.68		
Jul 2	24.52		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 19N-10E-18aaa1

Elevation of land surface 547.7 ft

Date	Water level	Date	Water level
Jan 16, 1959	10.44		
Apr 22	10.28		
Aug 7	7.97		
Nov 18	3.33		
Feb 16, 1960	2.18		
May 2	1.97		
Sep 28	5.60		
Apr 1, 1961	4.13		
Oct 11	2.95		
Apr 12, 1962	1.45		
Jun 28	2.09		
Sep 26	4.06		
Mar 27, 1963	2.80		
Oct 1	3.25		
Mar 30, 1964	3.72		
Oct 14	4.00		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-20aaa1

Elevation of land surface 543.2 ft

Date	Water level	Date	Water level
Jan 16, 1959	24.78		
Apr 22	24.64		
Aug 7	22.40		
Nov 18	18.49		
Feb 16, 1960	18.10		
May 2	17.40		
Sep 28	21.75		
Apr 1, 1961	20.91		
Apr 12, 1962	14.05		
Jun 28	15.73		
Sep 26	16.82		
Mar 27, 1963	14.18		
Sep 30	21.56		
Mar 30, 1964	22.60		
Oct 14	21.44		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-20bbb1

Elevation of land surface 545.8 ft

Date	Water level	Date	Water level
Jan 16, 1959	22.71		
Apr 22	24.77		
Aug 7	24.28		
Nov 18	21.68		
Feb 16, 1960	20.22		
May 2	18.94		
Sep 28	21.15		
Apr 1, 1961	21.02		
Oct 11	16.45		
Apr 12, 1962	13.89		
Jun 28	13.37		
Sep 26	15.66		
Mar 27, 1963	13.75		
Sep 30	17.76		
Mar 30, 1964	20.27		
Oct 14	20.44		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-20ddd1

Elevation of land surface 541.2 ft

Date	Water level	Date	Water level
Jan 16, 1959	27.44		
Apr 22	27.54		
Aug 7	27.33		
Nov 18	27.22		
Feb 16, 1960	27.25		
May 2	26.93		
Sep 28	26.79		
Apr 1, 1961	27.38		
Oct 11	26.43		
Apr 12, 1962	25.69		
Jun 28	25.27		
Sep 26	25.57		
Mar 27, 1963	24.90		
Sep 30	25.50		
Mar 30, 1964	26.36		
Oct 14	26.88		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-22bbb1

Elevation of land surface 546.9 ft

Date	Water level	Date	Water level
Jan 16, 1959	19.58		
Apr 15	19.29		
Aug 12	20.61		
Nov 18	9.68		
Feb 16, 1960	3.30		
May 2	1.85		
Sep 28	11.64		
Apr 1, 1961	10.06		
Oct 11	3.10		
Apr 12, 1962	1.78		
Jul 3	6.61		
Sep 26	5.42		
Mar 27, 1963	3.42		
Oct 1	15.71		
Mar 30, 1964	Dry at 18.50		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-22ccc1

Elevation of land surface 541.2 ft

Date	Water level	Date	Water level
Jan 16, 1959	30.15		
Apr 22	29.78		
Aug 7	28.15		
Nov 18	27.30		
Feb 16, 1960	26.25		
May 2	25.15		
Sep 28	28.41		
Apr 1, 1961	27.86		
Oct 11	24.89		
Apr 12, 1962	23.30		
Jul 3	24.29		
Sep 26	26.26		
Mar 27, 1963	24.70		
Sep 30	31.79		
Mar 30, 1964	28.75		
Oct 14	30.39		

County WagonerWell No. 19N-16E-26 cda 1Elevation of land surface 539.3

To test water level on 5th, 10th, 15th, 20th, 25th, and end of each month taken from recorder graph

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10 <u>63</u>												
5								21.47	22.55	23.29	23.90	24.08
10								21.65	22.65	23.41	23.97	24.08
15								21.85	22.76	23.53	23.96	24.16
20								22.00	22.88	23.63	24.02	24.14
25							21.10	22.25	23.02	23.73	24.05	24.10
eom							21.19	22.45	23.16	23.87	24.08	24.18
10 <u>64</u>												
5	24.18	24.22	24.43		24.13	24.18	24.47	24.99	25.41	25.85	26.08	26.16
10	24.23	24.37	24.44			24.31	24.53	25.07	25.51	25.89	26.05	26.11
15	24.23	24.37	24.43			24.33	24.61	25.15	25.57	25.91	26.10	26.14
20	24.29	24.40	24.46			24.28	24.67	25.21	25.66	25.97	26.14	26.16
25	24.30	24.40	24.44	24.04	24.04	24.37	24.77	25.29	25.71	26.00	26.05	26.20
eom	24.31	24.39	24.39	24.11	24.15	24.42	24.88	25.36	25.77	26.04	26.16	26.20
10 _____												
5												
10												
15												
20												
25												
eom												

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-29ccb1

Elevation of land surface 548.9 ft

Date	Water level	Date	Water level
Nov 26, 1957	13.27	May 2	1.00
Dec 18	14.03	Sep 28	6.54
Dec 27	14.09	Apr 1, 1961	2.76
Jan 30, 1958	13.47	Oct 11	.13
Feb 13	13.12	Apr 12, 1962	.60
Mar 4	12.91	Jun 28	2.35
Mar 17	6.60	Sep 26	.78
Mar 25	4.76	Mar 27, 1963	1.60
Apr 8	4.67	Sep 30	8.87
Apr 23	1.28	Mar 30, 1964	10.50
May 7	3.29	Oct 14	9.35
Aug 14	9.50		
Sep 2	10.40		
Sep 30	11.56		
Oct 29	12.50		
Jan 16, 1959	13.23		
Mar 3	13.63		
Apr 8	13.60		
Apr 15	13.85		
Jul 2	13.85		
Nov 18	2.36		
Feb 16, 1960	2.98		

Table 3.--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-30aaa1

Elevation of land surface 546.4 ft

Date	Water level	Date	Water level
Jan 16, 1959	16.5		
Apr 22	16.18		
Aug 7	16.16		
Nov 18	2.96		
Feb 16, 1960	.85		
May 2	.35		
Sep 28	8.65		
Apr 1, 1961	7.00		
Oct 11	1.04		
Apr 12, 1962	.35		
Jun 28	2.59		
Sep 26	1.86		
Mar 27, 1963	2.53		
Sep 30	11.51		
Mar 30, 1964	13.65		
Oct 14	16.11		

Table 3 .--Depth to water in feet below land surface

County WAGONER

Well No. 19N-16E-30deb2

Elevation of land surface 560.4 ft

Date	Water level	Date	Water level
Jan 16, 1959	15.74		
Apr 15	15.82		
Aug 12	15.08		
Nov 18	13.22		
Feb 16, 1960	10.38		
May 2	5.45		
Sep 28	11.32		
Apr 1, 1961	11.29		
Oct 11	4.45		
Apr 12, 1962	2.87		
Jun 28	6.19		
Sep 26	7.38		
Mar 27, 1963	6.75		
Oct 1	11.74		
Mar 30, 1964	12.70		
Oct 14	16.20		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-4cdd1

Elevation of land surface 570.2 ft

Date	Water level	Date	Water level
Jan 15, 1959	15.97		
Apr 22	15.52		
Aug 12	9.59		
Nov 18	3.52		
Feb 18, 1960	4.89		
May 3	5.24		
Sep 28	9.63		
Apr 21, 1961	6.88		
Oct 12	4.10		
Apr 12, 1962	5.76		
Jun 26	7.49		
Jun 26	7.49		
Sep 25	8.17		
Mar 27, 1963	9.30		
Sep 30	15.84		
Mar 30, 1964	18.95		
Oct 14	17.15		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-10cdd1

Elevation of land surface 563.5 ft

Date	Water level	Date	Water level
Jun 15, 1959	16.17	Dec 18	3.09
Apr 22	14.83	Jan 14, 1963	2.46
Aug 12	16.60	Feb 11	3.11
Nov 18	1.70	Mar 27	1.22
Feb 18, 1960	.55	Apr 29	2.21
May 4	.44	May 27	4.84
Apr 21, 1961	.72	Jun 25	10.30
Oct 12	3.43	Jul 23	14.20
Oct 25	4.19	Aug 19	15.95
Nov 15	3.48	Sep 16	16.64
Dec 14	1.09	Oct 14	17.67
Jan 24, 1962	.46	Nov 14	17.23
Feb 19	.89	Dec 9	16.32
Mar 21	.53	Jan 6, 1964	16.11
Apr 9	.57	Feb 3	16.21
May 16	2.59	Mar 2	15.99
Jun 13	2.02	Mar 30	15.64
Aug 8	11.61	Apr 27	9.96
Aug 28	14.76	May 25	9.19
Sep 25	8.23	Jun 22	10.23
Oct 22	4.97	Jul 20	14.04
Nov 19	3.75	Aug 19	17.85

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-15aaa1

Elevation of land surface 566.3 ft

Date	Water level	Date	Water level
Aug 21, 1957	10.66	Apr 12	6.03
Oct 16	11.14	May 4	5.98
Sep 30, 1958	9.99	May 31	4.97
Jan 15, 1959	12.21	Oct 12	5.98
Apr 22	11.05	Apr 12, 1962	4.59
Aug 12	10.95	Aug 14	11.00
Aug 31	12.06	Sep 25	7.08
Nov 3	7.06	Mar 27, 1963	4.62
Nov 18	6.65	Sep 30	11.94
Feb 18, 1960	5.20	Mar 30, 1964	6.38
Mar 30	4.90		
May 3	4.99		
May 25	5.20		
Jul 21	7.95		
Aug 17	8.10		
Sep 16	9.20		
Sep 28	9.67		
Nov 3	9.62		
Dec 2	9.66		
Jan 4, 1961	8.65		
Feb 8	8.26		
Mar 8	7.02		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-15bbb1

Elevation of land surface 565.4 ft

Date	Water level	Date	Water level
Jul 9, 1957	6.22	Nov 15	.19
Aug 21	8.12	Dec 14	1.98
Oct 16	12.00	Jan 24, 1962	3.06
Dec 18	12.66	Feb 19	2.65
Dec 27	13.33	Mar 21	1.65
Apr 8, 1958	3.45	Apr 9	3.17
Apr 23	.89	May 16	3.40
May 7	1.83	June 13	2.93
Jan 15, 1959	13.78	Aug 8	7.18
Apr 22	11.67	Aug 28	8.86
Aug 12	12.01	Sep 25	5.54
Nov 18	1.90	Oct 22	4.15
Feb. 18, 1960	.22	Nov 19	3.70
May 3	.66	Dec 18	3.50
Sep 28	7.49	Jan 14, 1963	3.24
Apr 12, 1961	2.03	Feb 11	3.69
Jun 30	2.69	Mar 27	2.90
Aug 2	2.65	Apr 29	3.98
Aug 30	3.93	May 27	5.48
Sep 28	.41	Jun 25	7.84
Oct 12	2.31	Jul 23	9.44
Oct 25	3.20	Aug 19	10.61

Table 3.--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-15bbb1--Cont'd

Elevation of land surface 565.4 ft

Date	Water level	Date	Water level
Sep 16	11.71	May 25	10.84
Oct 14	13.10	Jun 24	11.81
Nov 12	13.72		
Dec 9	13.70		
Jan 6, 1964	13.77		
Feb 3	14.10		
Mar 2	13.70		
Mar 30	12.40		
Apr 27	7.77		
May 25	7.88		
Jun 22	7.86		
Jul 20	9.75		
Aug 19	11.91		
Sep 16	12.79		
Oct 14	13.30		
Nov 10	13.73		
Dec 8	12.13		
Jan 4, 1965	12.29		
Feb 1	12.23		
Mar 1	12.08		
Mar 31	12.54		
Apr 28	11.12		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-15cdcl

Elevation of land surface 564.9 ft

Date	Water level	Date	Water level
Jan 15, 1959	25.54		
Apr 22	25.40		
Aug 12	17.50		
Nov 18	5.11		
Feb 18, 1960	4.57		
May 4	4.54		
Sep 30	14.79		
Apr 21, 1961	11.75		
Oct 12	3.53		
Apr 12, 1962	4.27		
Jun 26	5.39		
Sep 25	9.67		
Mar 27, 1963	10.00		
Sep 30	21.80		
Mar 30, 1964	23.48		
Oct 14	23.80		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-16aba1

Elevation of land surface 566.6 ft

Date	Water level	Date	Water level
Jun 19, 1957	.97	May 3, 1960	1.15
Aug 21	9.93	Sep 28	9.45
Dec 18	8.92	Apr 12, 1961	3.03
Dec 27	7.63	Jun 30	4.60
Jan 30, 1958	5.44	Aug 2	4.67
Feb 13	3.67	Aug 30	5.38
Mar 17	1.40	Sep 28	3.68
Mar 25	1.41	Oct 12	3.83
Apr 8	2.56	Oct 25	4.02
Apr 23	1.42	Sep 25, 1962	5.16
May 7	1.96	Oct 22	4.10
Sep 3	11.33	Nov 19	4.42
Sep 30	12.49	Dec 18	4.55
Dec 1	12.26	Jan 14, 1963	4.39
Dec 30	12.06	Feb 11	5.05
Jan 15, 1959	11.90	Mar 27	3.90
Mar 3	10.89	Apr 29	4.72
Apr 8	9.78	May 27	5.89
Apr 22	10.09	Jun 25	7.00
Jul 2	11.36	Jul 23	10.53
Aug 12	8.85	Aug 19	11.54
Nov 18	4.09	Sep 16	12.00

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-16aba1--Cont'd

Elevation of land surface 566.6 ft

Date	Water level	Date	Water level
Oct 14, 1963	12.92		
Nov 12	11.98		
Dec 9	11.56		
Jan 6, 1964	11.33		
Feb 3	11.22		
Mar 2	10.55		
Mar 30	9.38		
Apr 27	6.55		
May 25	7.63		
Jun 22	7.90		
Jul 20	11.02		
Aug 19	12.61		
Sep 16	13.25		
Oct 14	13.01		
Nov 10	11.17		
Dec 8	10.90		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-16add1

Elevation of land surface 562.1 ft

Date	Water level	Date	Water level
Jan 15, 1959	21.72		
Apr 22	22.51		
Aug 12	18.76		
Nov 18	3.53		
Feb 18, 1960	4.41		
May 3	3.95		
Sep 30	15.59		
Apr 21, 1961	12.16		
Oct 12	2.04		
Apr 12, 1962	4.40		
Jun 26	6.15		
Sep 25	12.58		
Mar 27, 1963	12.90		
Sep 30	21.55		
Mar 30, 1964	23.15		
Oct 14	22.86		

Table 3.--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-17aaal

Elevation of land surface 570.8 ft

Date	Water level	Date	Water level
Jan 15, 1959	20.19	<i>Destroyed</i>	
Apr 22	21.25		
Aug 12	18.11		
Nov 18	7.93		
Feb 18, 1960	10.00		
May 3	10.55		
Sep 28	16.88		
Apr 12, 1961	18.26		
Jun 30	9.84		
Aug 2	7.72		
Aug 30	11.42		
Oct 12	10.73		
Oct 25	12.38		
Nov 15	13.30		
Dec 14	13.00		
Jan 24, 1962	13.38		
Feb 19	14.07		
Mar 21	14.22		
Apr 9	13.76		
May 16	12.30		
Jun 13	12.17		
Aug 15	15.85		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E017daa2

Elevation of land surface 560

Date	Water level	Date	Water level
Aug 28, 1962	35.34	May 25	39.10
Sep 25	26.37	Jun 22	34.99
Oct 22	34.50	Jul 20	39.58
Nov 19	35.67	Aug 19	39.79
Dec 18	35.67	Sep 16	39.74
Jan 14, 1963	33.64	Oct 14	40.25
Feb 11	35.94		
Mar 27	35.30		
Apr 29	36.59		
May 27	37.29		
Jun 25	38.22		
Jul 23	38.50		
Aug 19	38.78		
Sep 16	39.20		
Oct 14	42.57		
Nov 12	40.99		
Dec 9	40.32		
Jan 6, 1964	40.57		
Feb 3	40.24		
Mar 2	40.39		
Mar 30	40.76		
Apr 27	38.80		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-22dad1

Elevation of land surface 563.6 ft

Date	Water level	Date	Water level
Jan 15, 1959	17.38	Apr 12, 1962	3.08
Apr 22	18.05	Jun 26	4.60
Aug 12	18.79	Sep 25	13.58
Aug 31	18.67	Mar 27, 1963	9.70
Nov 18	+ .63	Sep 30	11.38
Feb 18, 1960	.43	Mar 30, 1964	11.76
Mar 31	.74	Oct 14	12.03
May 4	1.00		
May 26	1.10		
Jul 21	2.05		
Aug 17	2.48		
Sep 16	3.25		
Sep 30	4.06		
Nov 3	4.52		
Dec 2	6.60		
Jan 4, 1961	7.57		
Feb 8	8.39		
Mar 8	9.27		
Apr 21	9.29		
May 4	9.35		
May 31	4.69		
Oct 12	2.16		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-15E-23bbb1

Elevation of land surface 559.8 ft

Date	Water level	Date	Water level
Jan 15, 1959	23.06	Oct 12	10.92
Apr 22	21.84	Apr 12, 1962	7.69
Aug 12	22.52	Jun 26	8.19
Aug 31	22.02	Sep 25	13.67
Nov 18	1.41	Mar 27, 1963	9.24
Dec 3	1.79	Sep 30	18.39
Feb 18, 1960	15.69	Mar 30	17.09
Mar 31	14.85	Oct 14	18.53
May 3	14.47		
May 31	13.86		
Jul 21	14.25		
Aug 7	14.20		
Sep 16	15.85		
Sep 30	16.85		
Nov 2	17.42		
Dec 2	16.98		
Jan 4, 1961	16.23		
Feb 8	15.59		
May 8	15.03		
Apr 21	14.11		
May 4	13.63		
Jun 1	9.47		

Table 3.--Depth to water in feet below land surface

County ROGERS

Well No. 20N-16E-7de a1

Elevation of land surface 567.3 ft

Date	Water level	Date	Water level
Jan 15, 1959	16.49		
Apr 22	16.77		
Aug 12	15.44		
Nov 18	13.11		
Feb 18, 1960	14.02		
May 3	13.84		
Sep 28	14.57		
Apr 12, 1961	14.78		
Oct 12	10.50		
Apr 12, 1962	11.70		
Jun 27	11.70		
Sep 24	15.62		
Mar 27, 1963	12.38		
Sep 30	14.57		
Mar 30, 1964	14.48		
Oct 14	15.50		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-16E-8bbb1

Elevation of land surface 556.8 ft

Date	Water level	Date	Water level
Jan 15, 1959	29.19		
Apr 22	29.18		
Aug 12	29.10		
Nov 18	28.74		
Feb 18, 1960	28.59		
Sep 30	27.76		
Apr 21, 1961	28.00		
Oct 12	27.03		
Apr 12, 1962	26.10		
Aug 8	25.50		
Sep 24	31.63		
Mar 27, 1963	29.68		
Sep 30	17.07		
Mar 30, 1964	18.34		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-16E-8cdcl

Elevation of land surface 560.2 ft

Date	Water level	Date	Water level
Jan 15, 1959	30.79		
Apr 22	31.33		
Aug 12	28.30		
Sep 30, 1960	29.06		
Apr 21, 1961	28.20		
Apr 12, 1962	20.70		
Jun 27	21.24		
Sep 24	25.72		
Mar 27, 1963	24.60		
Sep 30	16.70		
Mar 30, 1964	19.53		

Table 3.--Depth to water in feet below land surface

County ROGERS

Well No. 20N-16E-18cbe1

Elevation of land surface 556.3 ft

Date	Water level	Date	Water level
Jan 15, 1959	18.71		
Apr 22	18.17		
Aug 12	14.36		
Nov 18	8.25		
Feb 18, 1960	3.57		
May 4	2.35		
Sep 28	15.03		
Apr 12, 1961	8.27		
Oct 12	4.84		
Apr 12, 1962	.95		
Jun 27	7.09		
Sep 25	13.23		
Mar 27, 1963	6.13		
Sep 30	17.51		
Mar 30, 1964	17.58		
Oct 14	20.17		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-16E-19bc1

Elevation of land surface 561.3 ft

Date	Water level	Date	Water level
Jan 15, 1959	19.02		
Apr 22	20.41		
Aug 12	13.27		
Nov 18	4.45		
Feb 18, 1960	3.48		
May 3	3.71		
Sep 28	9.33		
Apr 12, 1961	7.55		
Oct 12	3.26		
Apr 12, 1962	2.70		
Aug 7	8.00		
Sep 25	6.25		
Mar 27, 1963	5.12		
Sep 30	14.86		
Mar 30, 1964	18.36		
Oct 14	18.76		

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No. 20N-16E-20aac1

Elevation of land surface 553.1 ft

Date	Water level	Date	Water level
Jan 15, 1959	19.85		
Apr 22	19.40		
Aug 12	12.36		
May 3, 1960	4.61		
Sep 28	6.60		
Apr 12, 1961	8.21		
Oct 12	5.72		
Apr 12, 1962	5.30		
Jun 28	5.18		
Sep 24	11.31		
Mar 26, 1963	6.52		
Sep 30	16.08		
Mar 30, 1964	16.80		
Oct 14	21.10		

Table 3.--Depth to water in feet below land surface

County ROGERS

Well No. 20N-16E-33cdc1

Elevation of land surface 558.8 ft

Date	Water level	Date	Water level
Oct 24, 1958	17.62	May 4	18.21
Jan 16, 1959	18.24	May 31	18.25
Mar 31	18.05	Jun 30	18.79
Apr 15	19.14	Aug 2	18.67
May 26	19.08	Aug 30	18.28
Aug 12	19.57	Sep 28	17.67
Nov 18	18.20	Oct 11	17.22
Feb 16, 1960	17.52	Oct 25	17.00
Mar 31	18.05	Nov 15	15.72
May 2	18.74	Dec 13	15.32
May 26	19.08	Jan 24, 1962	14.86
Jun 16	19.28	Feb 19	14.89
Jul 21	20.25	Mar 21	17.76
Aug 17	19.98	Apr 9	14.63
Sep 16	19.45	May 16	14.23
Sep 30	19.12	Jun 13	14.57
Nov 3	18.30	Aug 8	16.78
Dec 2	17.45	Aug 28	19.65
Jan 4, 1961	16.88	Sep 26	17.07
Feb 8	16.70	Oct 22	16.28
May 8	16.98	Nov 20	15.59
Apr 1	17.45	Dec 18	14.92

Table 3 .--Depth to water in feet below land surface

County ROGERS

Well No 20N-16E-33cdc1--Cont'd

Elevation of land surface 558.8 ft

Date	Water level	Date	Water level
Jan 14, 1963	14.50	Nov 10	17.87
Feb 11	14.32	Dec 8	17.21
Mar 27	14.78		
Apr 29	15.89		
May 27	16.73		
Jun 25	17.31		
Jul 23	18.69		
Aug 19	17.85		
Sep 16	17.39		
Oct 14	17.04		
Nov 12	17.92		
Dec 9	16.13		
Jan 6, 1964	15.45		
Feb 3	15.18		
Mar 2	15.20		
Mar 30	15.77		
Apr 27	16.59		
May 25	17.57		
Jun 22	18.53		
Jul 20	19.08		
Sep 16	19.10		
Oct 14	18.52		

Wagoner County, Oklahoma
 Chemical analyses, in parts per million

Well number	Date of collection	Temperature (°F)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids (residue on evaporation at 180°C)	Hardness as (CaCO ₃)		Percent sodium	Percent alkalinity	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
															Calcium, magnesium	Noncarbonate					
WAGONER COUNTY																					
15N-18E- 3bbb1	10- 9-58	64	58	16	16	1.5	222	0	26	23	....	1.0	....	294	210	28	14	75	0.5	446	8.2
16N-18E-11bcc1	10-13-59	..	20	10		177	402	12	60	46	....	0.5	....	569	92	0	81	73	8.0	876	8.5
11cdd1	3- 2-60	..	179	64		337	340	8	146	445	....	460	....	1,900	710	418	51	..	5.5	2,830	8.4
	3-21-60	..	172	61		335	294	30	152	440	....	420	..	1,940	680	389	52	21	5.6	2,720	8.6
14aba1	8-27-59	..	17	9.1		182	390	12	65	48	....	1.2	....	548	80	0	83	71	8.8	876	8.5
	5- 6-60	58	55	6.8		173	516	0	52	46	....	.1	..	599	165	0	70	78	5.9	983	7.7
16N-18E-15aaa1	8-13-59	..	26	8.5		33	140	0	29	19	....	.7	....	197	100	0	42	67	1.4	330	7.9
	5- 6-60	59	52	16		55	230	0	72	36	....	.1	....	356	196	8	38	60	1.7	621	7.4
16N-18E-15bba1	8-13-59	..	88	24		31	372	0	25	40	....	.0	....	414	320	15	17	79	.8	692	8.2
16abb1	8-13-59	..	22	0.1		43	140	0	21	26	....	.0	....	220	80	0	54	66	2.1	360	8.0
22aab1	12- 3-59	..	48	7.8		42	202	0	25	36	....	.8	....	290	152	0	37	68	1.5	472	7.8
33cad1	10- 9-58	..	64	14	22	2.6	264	0	40	1.3	....	.6	....	315	230	14	17	83	.6	522	8.2
16N-19E-33bcc1	11-19-58	..	21	9.1	26	0.6	123	0	15	14	....	.0	0.37	180	90	0	38	75	1.2	277	8.0
17N-17E- 9ccc1	8-13-59	..	56	11		14	204	0	6.2	29	....	.7	....	250	184	17	14	78	.5	402	8.1
10cbc1	8-13-59	..	30	8.0		30	110	0	33	34	....	.7	....	200	138	18	38	52	1.3	344	7.9
17acc1	8-13-59	..	32	4.9		63	213	0	20	30	....	.0	....	254	100	0	58	73	2.7	432	8.1
	3- 3-60	..	62	11		83	396	8	13	20	....	....	....	400	200	0	47	..	2.5	684	8.4
19ada1	8-13-59	..	37	14		17	168	0	7.4	31	....	.0	....	210	152	14	19	73	.6	344	8.0
27ada1	.....	..	85	26		56	328	0	92	51	....	5.2	....	505	320	51	27	61	1.4	821	8.0
27dab1	12- 3-59	..	18	3.6		17	60	0	8.6	26	....	1.8	....	131	60	11	38	51	.9	210	7.2
18N-16E-12abb1	12- 3-59	..	31	20		201	372	0	214	48	....	1.0	....	709	160	0	73	51	6.9	1,110	7.9
19N-16E- 4bba1	12- 3-59	..	17	4.3		17	64	0	26	11	....	1.2	....	137	60	8	38	55	.9	180	7.4
5aaa1	8-13-59	..	50	13		30	224	0	27	24	....	.1	....	275	180	0	27	75	1.0	470	8.2
	12- 3-59	..	44	11		15	128	0	53	212	244	156	51	18	55	.5	376	7.8
5aba1	8-13-59	..	21	15		58	252	0	21	8.80	264	116	0	52	86	2.3	441	8.2

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Chemical analyses, in parts per million

Well number	Date of collection	Temperature (°F)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids (residue on evaporation at 180°C)	Hardness as (CaCO ₃)		Percent sodium	Percent alkalinity	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
															Calcium, magnesium	Noncarbonate					
<u>WAGONER COUNTY--Continued</u>																					
19N-16E--Cont'd																					
5baa1	8-13-59	..	35	17	21		196	0	1.6	28	....	0.0	....	211	156	0	23	80	0.7	380	8.2
5bba1	8-13-59	..	146	43	164		272	0	519	94	....	.5	....	1,140	540	317	40	25	3.1	1,560	8.2
5ccc1	10-29-58	..	62	18	...	2.3	344	8	..	44	....	.1	....	....	230	0	..	....	...	802	8.3
22bbb1	12- 3-59	..	38	10	37		248	0	.00	9.9	....	1.3	....	235	138	0	37	93	1.4	407	8.1
30aaa1	10-29-58	..	46	18	110	.8	200	0	214	31	....	.1	....	563	190	26	56	79	3.5	856	8.0
<u>ROGERS COUNTY</u>																					
20N-15E-17aaa1	12- 3-59	..	86	15	9.9		322	0	1.2	18	....	7.6	....	358	275	11	7	89	.3	548	8.0
20N-16E-33cdc1	8-13-59	..	40	16	84		376	0	19	14	....	.0	....	370	164	0	53	89	2.9	626	7.9

Numbers in size groups indicate percent by weight of material retained on U.S. standard sieve series

Well number	Depth interval (feet)	CLAY SIZES < 0.004	SILT SIZES 0.004- 0.0625	SAND SIZES					GRAVEL SIZES V.fine - V.coarse 2-64
				V.fine .0625-.125	Fine .125-.25	Medium .25-.5	Coarse .5-1	V.coarse 1-2	
WAGONER CO.									
16N-18E-9ddd1	10-15	33.0	50.0	10.4	5.6	1.0	0.0	....	....
	15-20	6.4	7.0	2.9	3.9	14.4	5.4	7.8	52.2
	20-25	2.8	2.4	1.5	5.1	20.7	7.3	6.9	53.3
	25-30	4.7	4.3	2.0	6.5	33.8	13.9	13.7	21.1
	30-35	2.8	2.5	1.2	2.7	12.2	9.2	7.6	61.8
16N-18E-15aab1	8-16	27.5	35.6	15.7	15.7	1.3	1.2	1.0	2.0
	16-31	24.0	47.8	15.8	11.2	0.8	.2	0.2	....
	31-32	12.0	20.3	10.1	27.6	16.8	7.1	5.2	0.9
	32-34	11.5	23.7	8.3	7.3	5.7	11.5	18.7	13.3
16N-18E-23bba1	6-17	27.9	43.9	17.4	10.4	.2	.2	....	....
	17-30	9.8	15.2	7.4	43.5	21.3	.4	.0	2.4
	30-36	14.8	18.9	6.8	24.1	15.7	7.8	9.8	2.1
	36-42	9.2	12.5	3.7	8.9	11.7	11.6	22.8	19.6
16N-18E-23cdc1	20-25	21.6	37.0	16.8	20.4	4.0	.2	.0
	25-30	10.1	18.0	8.8	9.6	5.7	1.6	3.8	42.4
	30-35	8.1	17.0	5.8	5.7	3.5	2.4	8.1	49.4

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Numbers in size groups indicate percent by weight of material retained on U.S. Standard Sieve Series

Well number	Depth interval (feet)	CLAY SIZES < 0.004	SILT SIZES 0.004- 0.0625	SAND SIZES					GRAVEL SIZES	
				V.fine .0625-.125	Fine .125-.25	Medium .25-.5	Coarse .5-1	V.coarse 1-2	V.fine - V.coarse 2-64	
WAGONER CO.										
16N-19E-19cdd1	15-20	50.0	48.8	0.8	0.2	0.2	0.0	....	....
	20-25	41.6	52.0	4.2	2.0	.2	.0	....	....
	25-30	9.5	10.2	2.5	3.8	16.5	10.6	8.7	38.2	
17N-17E-8bbb1	20-25	41.4	44.0	6.8	6.6	1.0	.2	....	....
	25-30	32.5	34.2	6.4	18.7	6.5	.8	0.2	0.7	
17N-17E-10	30-35	23.0	18.0	4.0	19.9	16.7	4.2	4.9	9.3	
	35-41	10.2	11.5	3.4	11.6	11.4	6.5	9.2	36.2	
17N-17E-18abb1	15-20	39.0	51.6	5.8	3.0	.6	....	....	....
	20-25	31.8	51.4	11.2	5.2	.4	....	....	....
	25-30	31.0	52.4	11.0	5.2	.4	....	....	....
	30-35	22.4	37.0	11.7	8.5	6.2	5.2	5.4	3.6	
	35-42	7.3	12.0	6.0	4.1	1.6	1.2	4.3	63.5	
17N-17E-18dba1	7-22	57.0	37.6	3.2	1.6	.4	.2	....	....
	22-36	9.5	20.1	14.8	46.0	9.0	.4	.2	....
17N-17E-24cdd1	15-20	22.0	28.0	6.7	13.9	19.1	5.5	2.9	1.9	
	20-25	13.0	13.5	3.8	7.9	13.6	5.2	7.1	35.9	

Numbers in size groups indicate percent by weight of material retained on U.S. Standard Sieve Series

Well number	Depth interval (feet)	CLAY SIZES < 0.004	SILT SIZES 0.004- 0.0625	SAND SIZES					GRAVEL SIZES
				V.fine .0625-.125	Fine .125-.25	Medium .25-.5	Coarse .5-1	V.coarse 1-2	V.fine - V.coarse 2-64
WAGONER CO.									
17N-17E-24cdd1 (cont'd)	25-29	14.0	14.7	4.5	12.4	10.0	5.4	6.3	33.7
17N-17E-26ccb1	7-27	23.2	46.0	21.2	9.0	0.6	....	....	....
	27-34	20.0	41.6	13.6	19.6	5.2	....	....	....
17N-17E-27bca1	10-15	12.6	17.0	6.6	22.6	21.2	8.1	6.2	5.7
	15-18	14.0	18.6	7.5	13.2	8.5	4.8	9.1	24.3
17N-17E-34bba1	15-20	34.2	40.8	7.8	11.6	5.6	....	....	....
	20-25	30.0	32.4	6.3	12.8	10.8	2.3	1.1	4.3
	25-35	11.0	7.4	1.1	3.4	10.1	5.5	7.8	53.7
	35-38	10.5	5.3	0.5	0.8	1.4	1.7	4.0	75.8
17N-17E-36ddd1	15-20	41.8	45.8	6.4	5.0	1.0	0.0	....	....
	20-25	33.5	51.5	8.8	5.8	.4	.0	....	....
	25-30	19.1	32.0	5.4	15.9	24.0	2.4	0.6	0.6
	30-37	16.7	21.2	4.5	7.5	14.5	7.1	8.8	19.7
18N-16E-12aaa2	25-30	38.0	52.0	5.8	3.8	0.4	0.0	....	....
	30-32	12.2	19.5	4.1	10.2	7.0	3.9	6.5	36.6

Numbers in size groups indicate percent by weight of material retained on U.S. Standard Sieve Series

Well number	Depth interval (feet)	CLAY SIZES < 0.004	SILT SIZES 0.004- 0.0625	SAND SIZES					GRAVEL SIZES
				V.fine .0625-.125	Fine .125-.25	Medium .25-.5	Coarse .5-1	V.coarse 1-2	V.fine - V.coarse 2-64
WAGONER CO.									
18N-16E-13bbb1	12-22	33.0	47.8	15.6	3.0	0.4	0.2	....	....
22-32	22-32	14.3	25.5	26.0	32.6	1.6	....	....	....
	32-42	8.0	19.4	23.8	39.4	9.2	.2	....	....
18N-16E-13daa2	15-20	21.6	29.8	8.4	24.0	6.9	.2	0.2	8.9
	20-25	13.5	23.3	11.5	36.0	13.1	.2	.2	2.2
	25-30	10.0	13.0	8.2	38.0	29.0	1.8	....	....
	30-35		11.4	8.7	40.1	31.8	5.4	2.2	0.4
	35-37		9.8	8.5	37.9	30.0	7.5	4.5	1.8
18N-17E-6cbb2	30-35	34.0	49.0	10.4	6.0	.6	....	....	....
	35-40	32.5	50.0	9.9	5.7	.4	.2	.4	.9
	40-45	15.0	22.5	5.9	8.5	18.7	4.7	5.1	19.6
	45-50	21.0	29.8	5.3	5.3	6.2	2.4	3.8	26.2
18N-17E-17dda1	20-25	32.4	48.0	13.2	6.2	.2	....	....	....
	25-30	23.8	33.0	11.2	26.4	5.6	....	....	....
	30-35	6.6	7.8	4.4	31.7	47.4	1.6	.4	.1

Numbers in size groups indicate percent by weight of material retained on U.S. Standard Sieve Series

Well number	Depth interval (feet)	CLAY SIZES < 0.004	SILT SIZES 0.004- 0.0625	SAND SIZES					GRAVEL SIZES V.fine - V.coarse 2-64
				V.fine .0625-.125	Fine .125-.25	Medium .25-.5	Coarse .5-1	V.coarse 1-2	
WAGONER CO.									
18N-17E-17dda1 (cont'd)	30-38	6.0	8.2	2.8	27.7	52.7	2.2	0.2	0.2
19N-16E-5aaa3	17-27	34.0	53.6	9.8	2.4	0.2	....	....	....
	27-42	30.4	55.8	10.2	3.2	.2	0.2	....	....
	42-52	28.0	53.4	11.8	6.0	.6	.2	....	....
	52-59	26.0	47.0	11.2	10.0	5.2	.4	.2	....
19N-16E-5baa1	7-17	28.0	31.8	11.0	24.2	4.8	.2	....	....
	17-32	8.5	11.9	22.2	54.0	3.2	.2	....	....
	32-39	10.2	17.7	22.7	40.6	7.7	.0	.0	1.1
19N-16E-9ccc1	20-25	34.2	53.6	7.2	4.4	.6	.0	....	....
	25-30	36.4	50.2	7.6	4.8	.8	.2	.0	....
	30-35	10.2	13.0	2.4	4.7	11.3	5.2	6.8	46.6
	35-41	7.8	11.3	2.8	10.6	27.3	8.2	9.8	22.2
19N-16E-15cbc1	30-35	32.0	50.4	8.8	7.8	1.0	.0	....	....
	35-40	32.4	52.0	7.0	6.6	2.0	.0		
	40-45	14.0	24.6	6.3	9.1	11.0	4.8	6.1	24.1
	45-50	13.1	17.0	4.5	5.6	4.1	2.0	3.4	50.3

Numbers in size groups indicate percent by weight of material retained on U.S. Standard Sieve Series

Well number	Depth interval (feet)	CLAY SIZES < 0.004	SILT SIZES 0.004- 0.0625	SAND SIZES					GRAVEL SIZES
				V. fine .0625-.125	Fine .125-.25	Medium .25-.5	Coarse .5-1	V. coarse 1-2	V. fine - V. coarse 2-64
WAGONER CO.									
19N-16E-17dcc1	25-30	28.0	53.4	12.4	5.2	1.0	....	....	....
	30-35	21.7	45.5	18.2	12.4	2.0	0.2	....	....
	35-43	14.4	25.5	12.4	23.7	14.5	.9	0.6	8.0
	43-47	4.0	7.3	2.3	3.7	3.5	2.2	6.5	70.6
19N-16E-20cdd1	30-35	33.6	40.0	11.6	12.2	2.6	.0	....	....
	35-40	25.6	37.0	12.2	18.8	6.4	.0	....	....
	40-45	14.2	17.0	5.7	9.7	28.0	7.8	5.8	11.8
	45-53	10.5	14.6	4.4	10.8	17.3	10.2	11.6	20.6
19N-16E-22ccc1	7-27	39.0	43.4	10.2	7.2	0.2	....	....	....
	27-43	22.0	26.2	19.1	22.5	9.3	.8	.1	....
19N-16E-23abb2	20-25	50.0	47.8	1.6	0.4	.2	....	....	....
	25-30	48.0	48.6	2.0	1.0	.4	....	....	....
	30-35	29.5	36.7	14.2	17.4	2.0	.2	....	....
	35-40	7.8	11.2	4.8	23.5	43.6	6.5	1.6	1.0
	40-49	7.0	9.0	5.3	26.2	45.1	4.9	1.0	1.5
	49-53	8.0	13.0	5.8	13.1	10.1	4.7	8.6	36.7

Numbers in size groups indicate percent by weight of material retained on U.S. Standard Sieve Series

Well number	Depth interval (feet)	CLAY SIZES < 0.004	SILT SIZES 0.004- 0.0625	SAND SIZES					GRAVEL SIZES V.fine - V.coarse 2-64
				V.fine .0625-.125	Fine .125-.25	Medium .25-.5	Coarse .5-1	V.coarse 1-2	
WAGONER CO.									
19N-16E-26cda1	15-20	32.0	48.8	9.2	9.0	1.0	0.0	....	....
	20-25	32.2	47.0	8.0	10.8	2.0	.0	....	....
	25-30	31.6	48.0	8.0	10.4	2.0	.0	....	....
	30-35	9.9	12.2	3.6	33.1	39.3	1.4	0.2	0.3
	35-40	5.0	6.2	2.9	21.0	36.3	4.5	2.2	21.9
	40-47	4.3	5.4	2.2	3.8	7.7	5.0	4.9	66.7
ROGERS CO.									
20N-15E-15cdc1	27-42	23.0	46.4	19.6	10.0	0.8	.2	....	....
	42-49	22.0	50.4	16.2	8.4	2.8	.2	....	....
20N-15E-23bcb1	15-20	48.0	50.6	.8	.4	.2	....	....	....
	20-25	36.2	53.0	7.0	3.6	.2	....	....	....
	25-30	38.0	50.0	7.4	4.2	.4	....	....	....
	35-40	28.5	39.4	5.9	7.7	10.2	2.9	2.7	2.7
	40-46	7.0	13.9	3.7	2.8	3.2	1.8	3.5	64.1
20N-15E-24aaa1	20-25	27.2	43.0	17.6	11.8	.4	....	....	....
	25-30	9.3	15.7	10.6	40.2	24.0	.2	....	....

Numbers in size groups indicate percent by weight of material retained on U.S. Standard Sieve Series

Well number	Depth interval (feet)	CLAY SIZES < 0.004	SILT SIZES 0.004- 0.0625	SAND SIZES					GRAVEL SIZES V.fine - V.coarse 2-64
				V.fine .0625-.125	Fine .125-.25	Medium .25-.5	Coarse .5-1	V.coarse 1-2	
ROGERS CO.									
20N-15E-24aaa1 (cont'd)	30-35	15.8	29.4	16.0	27.4	11.4	....	....	....
	35-40	6.0	9.5	7.1	35.9	35.6	1.7	0.8	3.4
	40-45	5.9	10.8	7.4	31.4	31.7	5.5	2.3	5.0
	45-50	10.5	11.0	3.8	16.1	37.0	15.3	5.8	0.5
20N-16E-8ddd1	20-25	32.0	51.4	10.6	5.2	0.8	....	....	....
	25-30	25.0	45.0	12.8	15.4	1.8	....	....	....
	30-35	26.2	50.8	10.0	11.6	1.4	....	....	....
	35-40	29.8	45.5	10.4	10.8	2.4	0.8	.2	.1
20N-16E-20abd1	40-45	15.8	25.5	7.7	9.5	4.9	3.9	5.4	27.3
	30-35	31.0	45.2	10.8	11.4	1.4	.2	....	....
	35-40	31.4	48.6	9.6	9.2	1.2	....	....	....
	45-50	31.6	54.0	8.4	5.2	.8	....	....	....
	50-55	17.0	32.9	5.7	6.6	14.1	7.6	5.2	10.9
	55-59	13.9	27.0	6.3	5.7	7.0	4.5	5.6	30.0

Table 6.--Hydrologic properties of samples selected from test holes

Well number	Depth interval feet	Specific retention percent	Porosity percent	Specific yield percent	Coefficient of permeability gal/day/sq ft
WAGONER CO.					
16N-18E-15abb1	8-16	41.8	46.9	5.1	0.002
	16-31	38.7	46.9	8.2	.002
	31-32	17.1	37.4	20.3	.6
	32-34	21.5	35.7	14.2	.08
16N-18E-23bba1	6-17	41.7	47.2	5.5	.0007
	17-30	16.6	37.7	21.1	.05
	30-36	20.7	36.5	15.8	.4
	36-42	17.5	37.3	19.8	6
16N-19E-19cdd1	25-30	18.2	33.0	14.8	3.0
17N-17E-8bbb1	30-35	25.5	38.0	12.5	.02
	35-41	20.8	31.2	10.4	1.0
17N-17E-18aab1	30-35	27.0	43.5	16.5	.08
	35-42	35.0	32.9	....	.07
17N-17E-34bba1	25-35	18.9	34.1	15.2	2.0
	35-38	27.4	39.0	11.6	20
17N-17E-36ddd1	25-30	25.5	40.7	15.2	.1
	30-37	23.6	34.1	10.5	.2
18N-17E-6cbb2	40-45	26.7	33.8	7.1	.1
	45-50	34.7	35.8	1.1	.03
18N-17E-17daa1	30-38	10.1	39.3	29.2	8
19N-16E-9ccc1	35-41	16.5	32.7	16.2	.8
19N-16E-17dcc1	35-43	22.7	38.7	16.0	.1

Table 6.--Hydrologic properties of samples selected from test holes

Well number	Depth interval feet	Specific retention percent	Porosity percent	Specific yield percent	Coefficient of permeability gal/day/sq ft
WAGONER CO.					
19N-16E-17dca1 (cont'd)	43-47	24.0	31.3	7.3	4
19N-16E-23abb2	35-40	10.8	36.2	25.4	3.0
	40-49	8.7	36.2	27.5	4
	49-53	21.5	32.1	10.6	0.8
19N-16E-26cda1	30-35	10.4	38.8	28.4	3.0
	35-40	8.7	36.3	27.6	20
	40-47	16.1	34.6	18.5	2.0
ROGERS CO.					
20N-15E-23bcb1	35-40	33.3	43.9	10.6	.06
	40-46	33.3	30.5	....	.9
20N-15E-24aaa1	35-40	8.9	35.6	26.7	6
	40-45	10.6	35.6	25.0	5
	45-50	14.0	35.6	21.6	3
20N-16E-8ddd1	40-45	31.7	35.6	3.9	.09
20N-16E-20abd1	45-50	31.7	49.6	17.9	.1
	50-55	29.1	39.7	10.6	.1
	55-59	33.3	35.6	2.3	.1

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