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BULLETIN 5908

WATER-LEVEL MEASUREMENTS AND MAPS
SOUTHERN HIGH PLAINS, TEXAS
1958 AND 1959

Compiled by
F. A. Rayner, Geological Engineer
Texas Board of Water Engineers

Prepared in cooperation with the Geological Survey,
United States Department of the Interior

June 1959

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WATER-LEVEL MEASUREMENTS AND MAPS
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INTRODUCTION

In order to evaluate the effects of ground-water development in relation to available supply, periodic measurements of water levels are made in selected observation wells throughout the state as a part of an observation well program conducted cooperatively by the Texas Board of Water Engineers and the U. S. Geological Survey.

This publication contains water-level measurements made in observation wells in 23 Southern High Plains Counties in 1958 and 1959. Measurements of the depth to water are in feet below land-surface.

A map showing changes in water levels accompanies the individual water-level tables for each of the 23 counties. Changes in the water levels from 1958 to 1959 are indicated by red (decline) or blue (rise) figures.

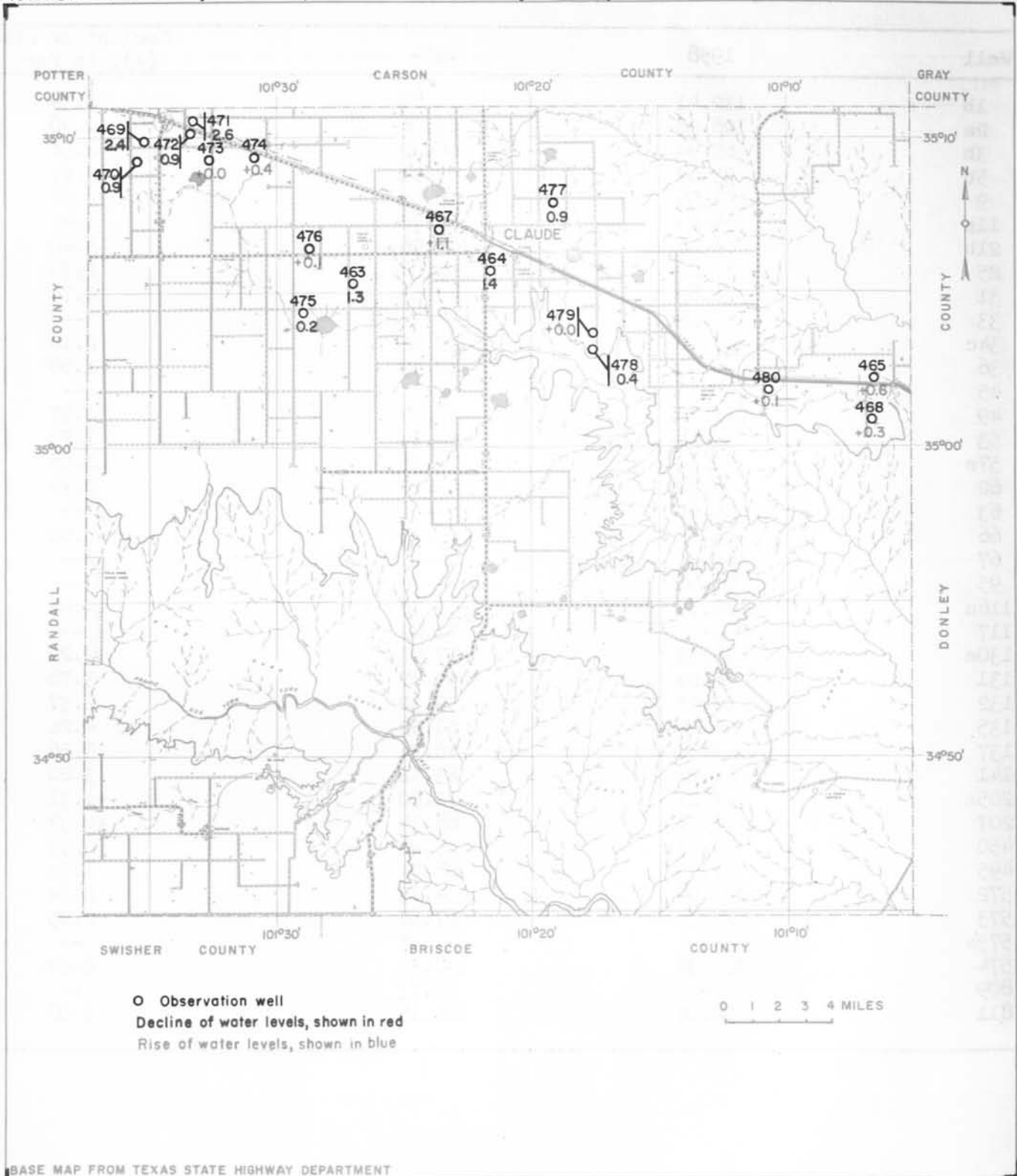
The assistance of the High Plains Underground Water Conservation District No. 1 and the Panhandle Ground-Water Conservation District No. 3 South of the Canadian River, in the Southern High Plains observation well program, is gratefully acknowledged.

ARMSTRONG COUNTY, WATER-LEVEL MEASUREMENTS

January 1958 and March 1959 water levels, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
463	157.64	158.95	1.31
464	171.16	172.52	1.36
465	116.58	115.95	+0.63
467	155.65	154.55	+1.10
468	133.22	132.96	+0.26
469	154.77	157.16	2.39
470	178.60	179.48	0.88
471	188.37	190.96	2.59
472	186.65	187.51	0.86
473	154.10	154.08	+0.02
474	144.44	144.02	+0.42
475	152.38	152.62	0.24
476	154.25	154.14	+0.11
477	296.85*	297.74	0.89
478	159.28*	159.69	0.41
479	174.90*	174.88	+0.02
480	188.20	188.06	+0.14

* Measured in February



BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

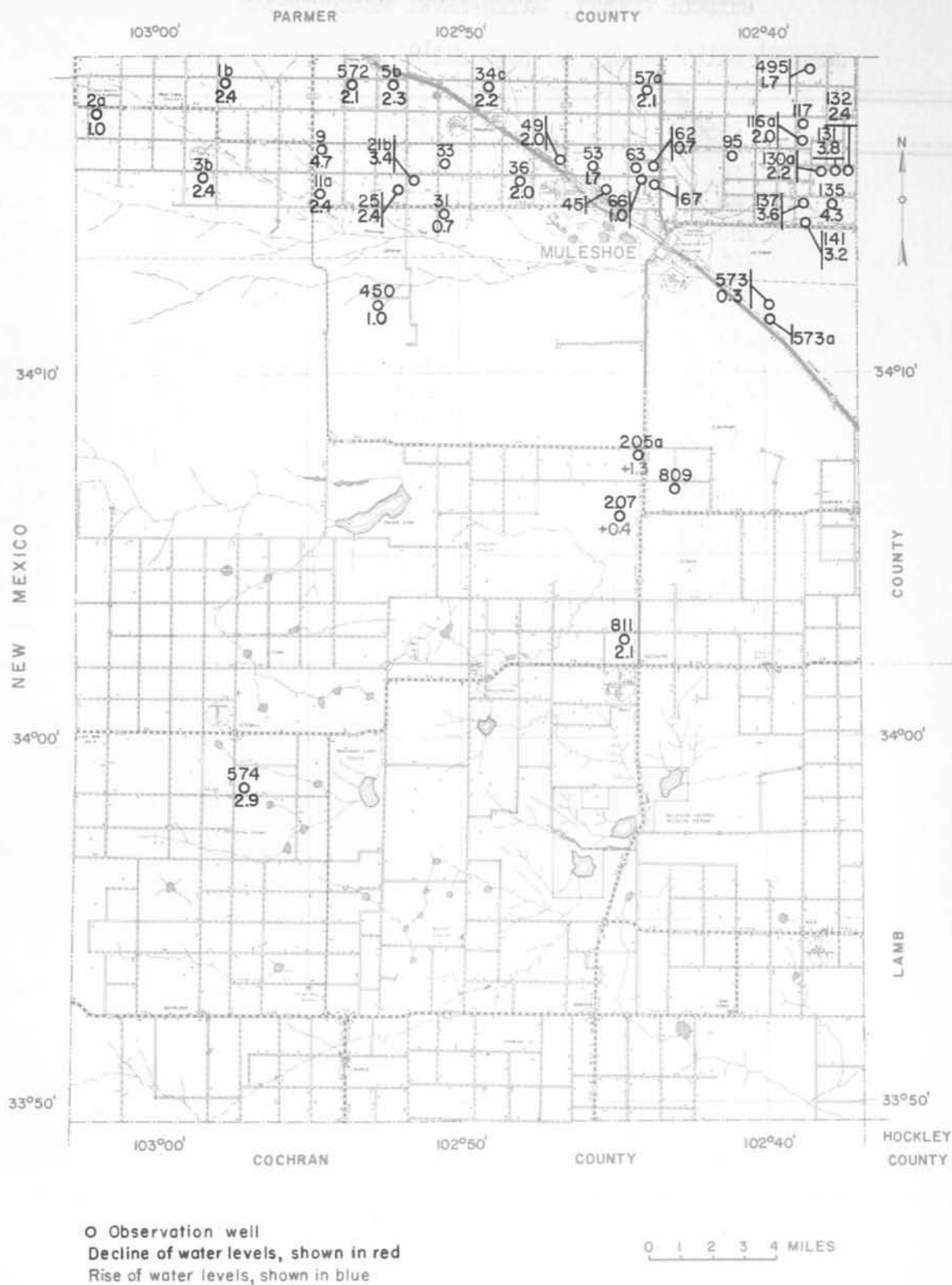
**ARMSTRONG COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO MARCH 1959**

APR, 1959 NMR

BAILEY COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
1b	112.41	114.80	2.39
2a	108.08	109.06	0.98
3b	65.94	68.32	2.38
5b	93.67	95.94	2.27
9	73.34	78.02	4.68
11a	54.29	56.70	2.41
21b	61.56	64.96	3.40
25	57.29	59.64	2.35
31	46.89	47.63	0.74
33	71.29	--	--
34c	87.70	89.86	2.16
36	50.51	52.49	1.98
45	47.55	--	--
49	51.70	53.67	1.97
53	58.44	60.14	1.70
57a	76.31	78.36	2.05
62	68.78	69.50	0.72
63	66.65	--	--
66	65.75	66.75	1.00
67	65.31	--	--
95	57.04	--	--
116a	59.75	61.76	2.01
117	--	71.82	--
130a	55.60	57.82	2.22
131	56.09	59.87	3.78
132	56.95	59.32	2.37
135	46.26	50.52	4.26
137	43.18	46.74	3.56
141	40.22	43.42	3.20
205a	73.21	71.90	+1.31
207	88.71	88.34	+0.37
450	36.33	37.28	0.95
495	87.13	88.84	1.71
572	101.99	104.13	2.14
573	27.32	27.57	0.25
573a	--	29.45	--
574	195.36	198.30	2.94
809	--	82.73	--
811	98.07	100.15	2.08



BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

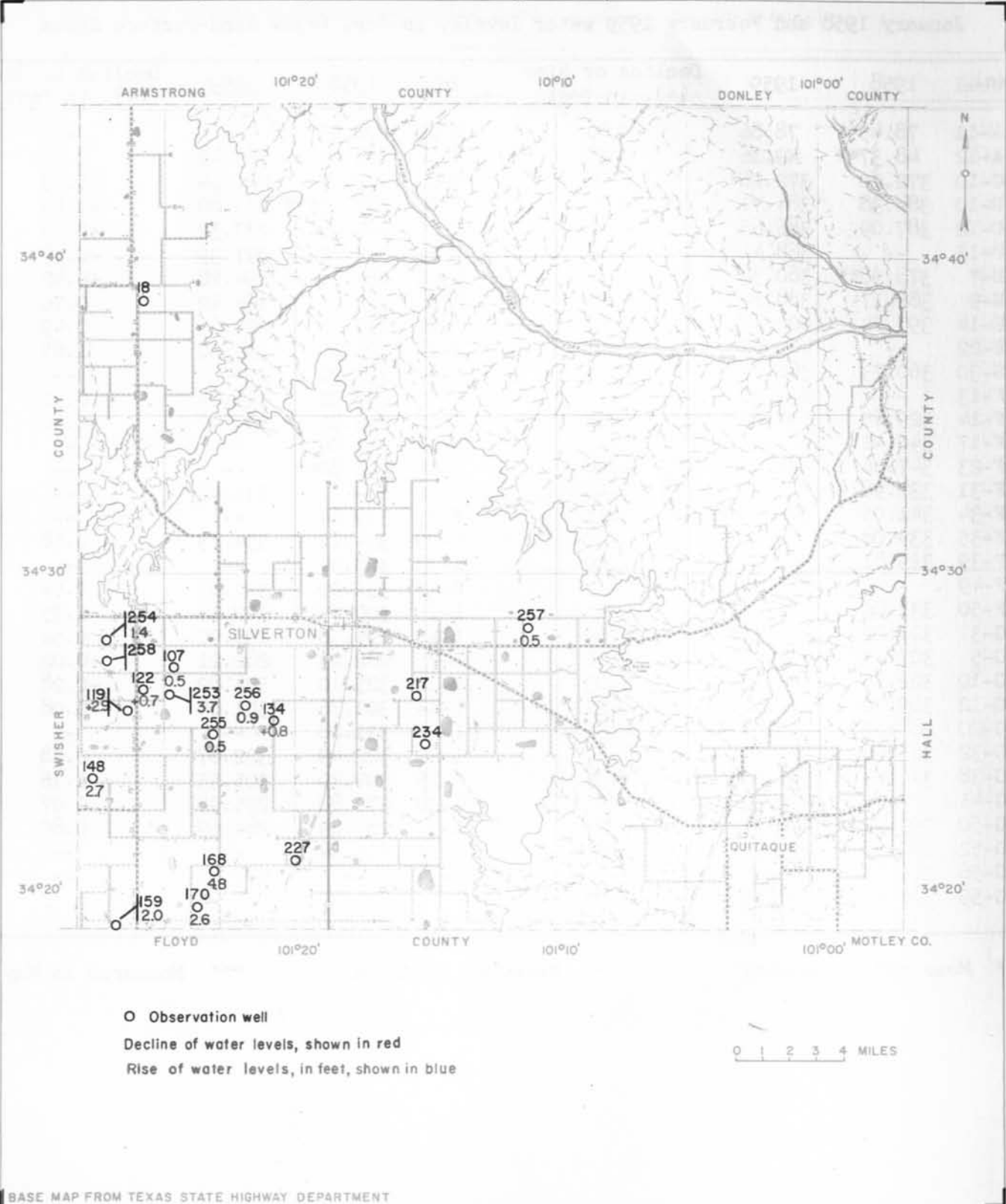
**BAILEY COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959**

APR., 1959 NMR

BRISCOE COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
18	--	103.67	--
107	89.37	89.83	0.46
119	120.72	117.85	+2.87
122	106.99	106.25	+0.74
134	107.77	106.94	+0.83
148	101.74	104.48	2.74
159	123.10	125.05	1.95
168	119.43	124.23	4.80
170	119.58	122.16	2.58
217	--	142.39	--
227	84.90	--	--
234	--	129.74	--
253	101.81	105.48	3.67
254	82.95	84.39	1.44
255	112.83	113.35	0.52
256	97.74	98.67	0.93
257	180.09	180.59	0.50
258	--	96.92	--



**BRISCOE COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959**

APR. 1959 NMR

CARSON COUNTY, WATER-LEVEL MEASUREMENTS

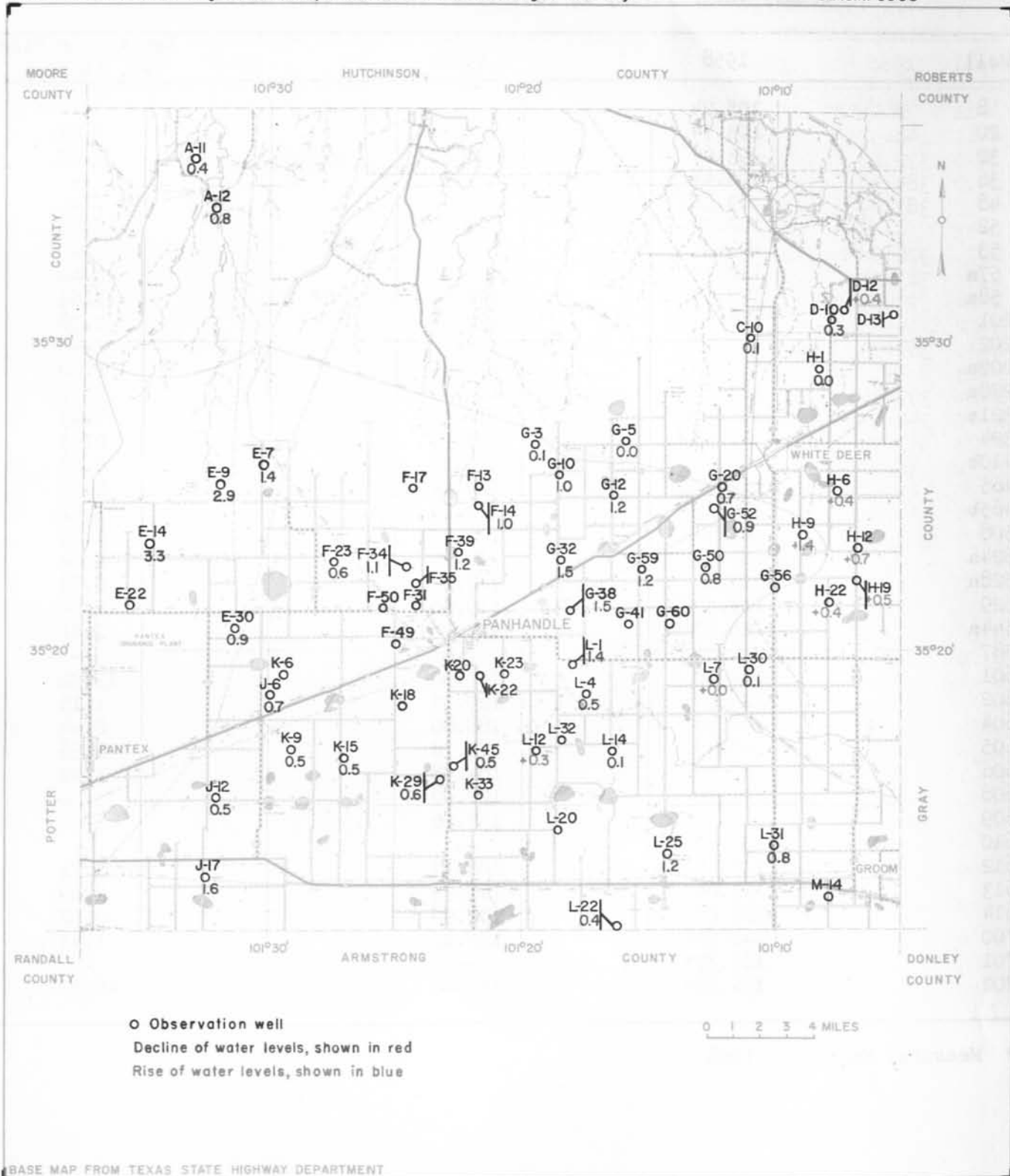
January 1958 and February 1959 water levels, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet	Well	1958	1959	Decline or Rise (+), in feet
A-11	78.45**	78.86	0.41	G-60	298.25	--	--
A-12	48.37**	49.16	0.79	H-1	383.40	383.42	0.02
C-10	372.20	372.26*	0.06	H-6	282.07	281.64	+0.43
D-10	384.38	384.71	0.33	H-9	287.23***	285.80	+1.43
D-12	387.09	386.65	+0.44	H-12	288.06	287.32	+0.74
D-13	--	368.41	--	H-19	297.88	297.39	+0.49
D-7	378.98**	380.33	1.35	H-22	294.70	294.28	+0.42
E-9	385.17	388.10	2.93	J-6	362.72	363.42	0.70
E-14	397.54	400.84	3.30	J-12	224.16	224.65	0.49
E-22	--	409.03	--	J-17	195.25	196.90	1.65
E-30	360.73	361.67	0.94	K-6	357.20	--	--
F-13	--	330.30	--	K-9	339.32	339.84	0.52
F-14	329.85	330.89	1.04	K-15	333.92	334.42	0.50
F-17	340.42	--	--	K-18	337.86	--	--
F-23	347.36	348.00	0.64	K-20	338.80**	--	--
F-31	337.98	--	--	K-22	--	335.40	--
F-34	341.05	342.16**	1.11	K-23	319.64	--	--
F-35	339.08	--	--	K-29	334.15	334.73	0.58
F-39	329.81	331.00	1.19	K-33	328.34	--	--
F-49	--	338.90	--	K-45	331.29	331.83	0.54
F-50	331.89	--	--	L-1	300.79	302.14	1.35
G-3	321.22	321.31*	0.09	L-4	299.38	299.90	0.52
G-5	307.45	307.45*	0.00	L-7	282.23	282.21	+0.02
G-10	322.75	323.78	1.03	L-12	325.10	324.82	+0.28
G-12	309.30	310.52*	1.22	L-14	301.76	301.84	0.08
G-20	284.42	285.08	0.66	L-20	331.08	--	--
G-32	325.66	327.16	1.50	L-22	322.49	322.87	0.38
G-38	314.54	316.08	1.54	L-25	304.39	305.55	1.16
G-41	--	299.30	--	L-30	275.88	275.95	0.07
G-50	293.91	294.75	0.84	L-31	283.89	284.69	0.80
G-52	290.58	291.47	0.89	L-32	315.54	--	--
G-56	300.15	--	--	M-14	--	277.63	--
G-59	306.95	308.18	1.23				

* Measured in January

** Measured in March

*** Measured in May



CARSON COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO JANUARY 1959

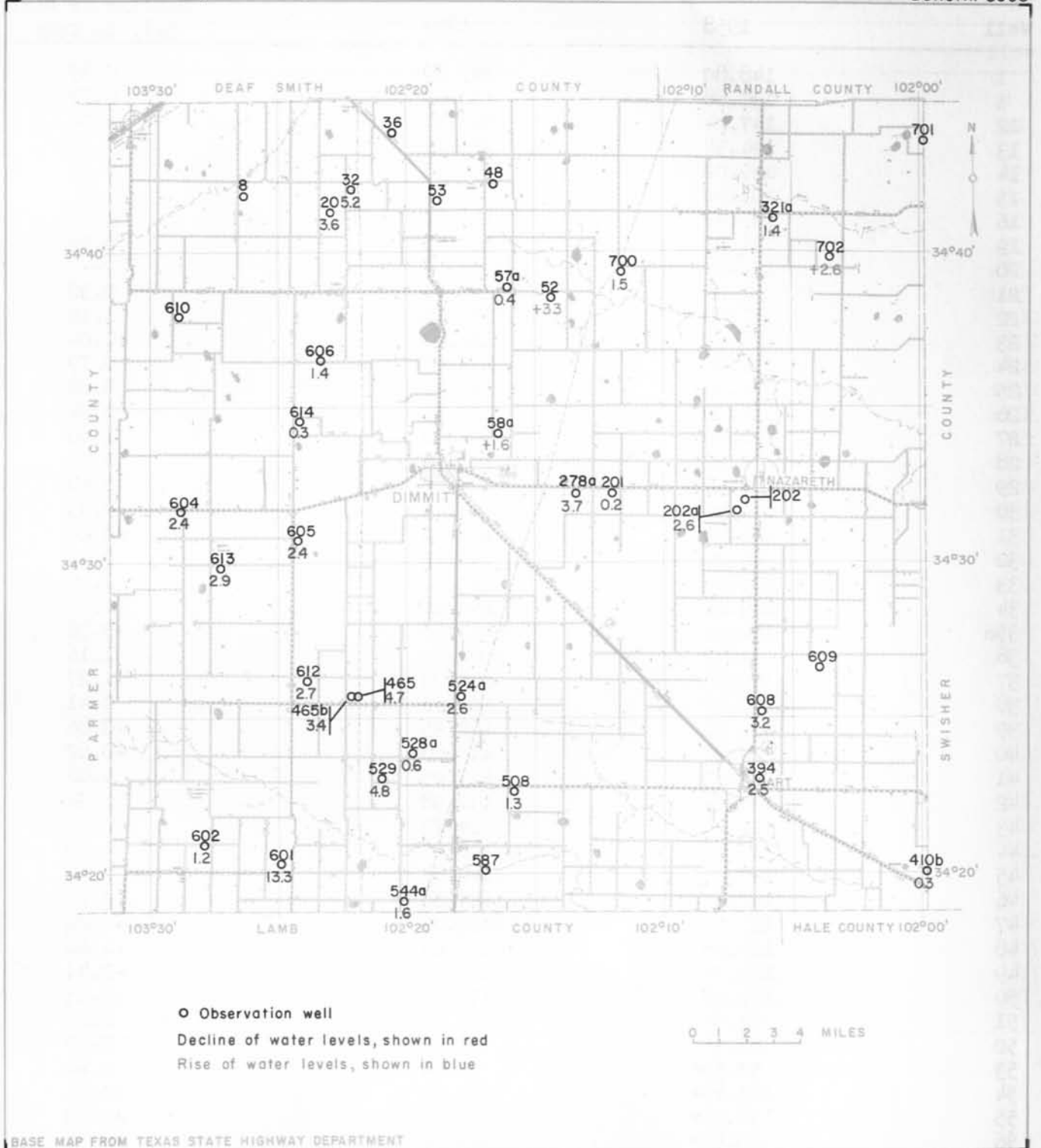
APR., 1959 NMR

CASTRO COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
8	105.24	--	--
20	103.74	107.38	3.64
32	93.64	98.81	5.17
36	126.44	--	--
48	83.20	--	--
52	102.79	99.50	+3.29
53	101.37	--	--
57a	118.43	118.85	0.42
58a	172.28	170.67	+1.61
201	178.67	178.85	0.18
202	116.45	--	--
202a	169.89	172.49	2.60
278a	183.29	186.99	3.70
321a	172.70*	174.13	1.43
394	121.53	123.98	2.45
410b	102.94	103.20	0.26
465	117.71	122.44	4.73
465b	118.22	121.64	3.42
508	105.64	106.90	1.26
524a	104.06	106.70	2.64
528a	117.62	118.20	0.58
529	114.82	119.66	4.84
544a	125.87	127.48	1.61
587	--	47.86	--
601	134.58	147.90	13.32
602	127.92	129.07	1.15
604	186.36	188.80	2.44
605	169.42	171.78	2.36
606	183.26	184.68	1.42
608	124.70	127.92	3.22
609	--	157.26	--
610	151.62	--	--
612	105.46	108.17	2.71
613	143.84	146.73	2.89
614	187.67	187.99	0.32
700	148.65*	150.10	1.45
701	165.17*	--	--
702	154.05*	151.48	+2.57

* Measured March 26, 1958



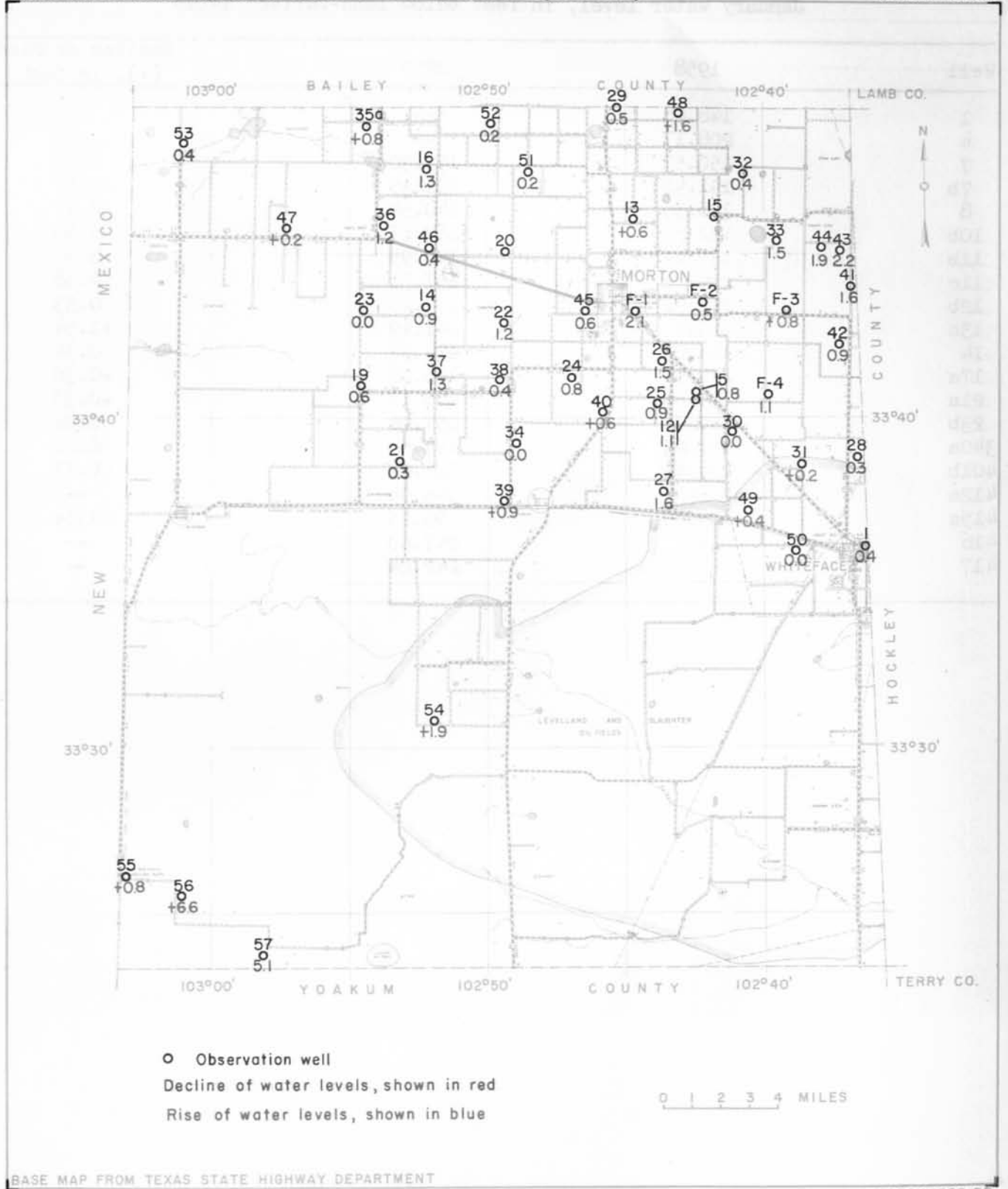
CASTRO COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO JANUARY 1959

COCHRAN COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
1	148.80	149.19	0.39
5	137.88	138.67	0.79
12	147.24	148.30	1.06
13	124.34	123.75	+0.59
14	139.02	139.95	0.93
15	103.10	--	--
16	104.97	106.22	1.25
19	131.27	131.85	0.58
20	120.68	--	--
21	157.08	157.40	0.32
22	151.90	153.06	1.16
23	126.53	126.49	+0.04
24	152.88	153.67	0.79
25	135.56	136.44	0.88
26	128.20	129.74	1.54
27	142.60	144.20	1.60
28	141.22	141.55	0.33
29	87.36	87.84	0.48
30	143.40	143.43	0.03
31	126.40	126.20	+0.20
32	96.22	96.63	0.41
33	109.25	110.70	1.45
34	169.25	169.28	0.03
35a	104.31	103.55	+0.76
36	91.73	92.89	1.16
37	133.73	135.00	1.27
38	179.79	180.20	0.41
39	163.21	162.35	+0.86
40	119.22	118.60	+0.62
41	113.63	115.25	1.62
42	131.04	131.98	0.94
43	112.56	114.73	2.17
44	110.93	112.82	1.89
45	140.25	140.85	0.60
46	147.15	147.58	0.43
47	121.09	120.89	+0.20
48	127.25	125.65	+1.60
49	169.51	169.10	+0.41
50	176.08	176.05	+0.03
51	93.87	94.10	0.23
52	87.35	87.54	0.19
53	57.50*	57.94	0.44
54	183.48*	181.63	+1.85
55	136.74*	135.91	+0.83
56	150.60*	144.02	+6.58
57	125.28*	130.40	5.12
F-1	125.48	127.55	2.07
F-2	134.93	135.46	0.53
F-3	150.62	149.86	+0.76
F-4	140.08	141.17	1.09

* Measured April 16, 1958

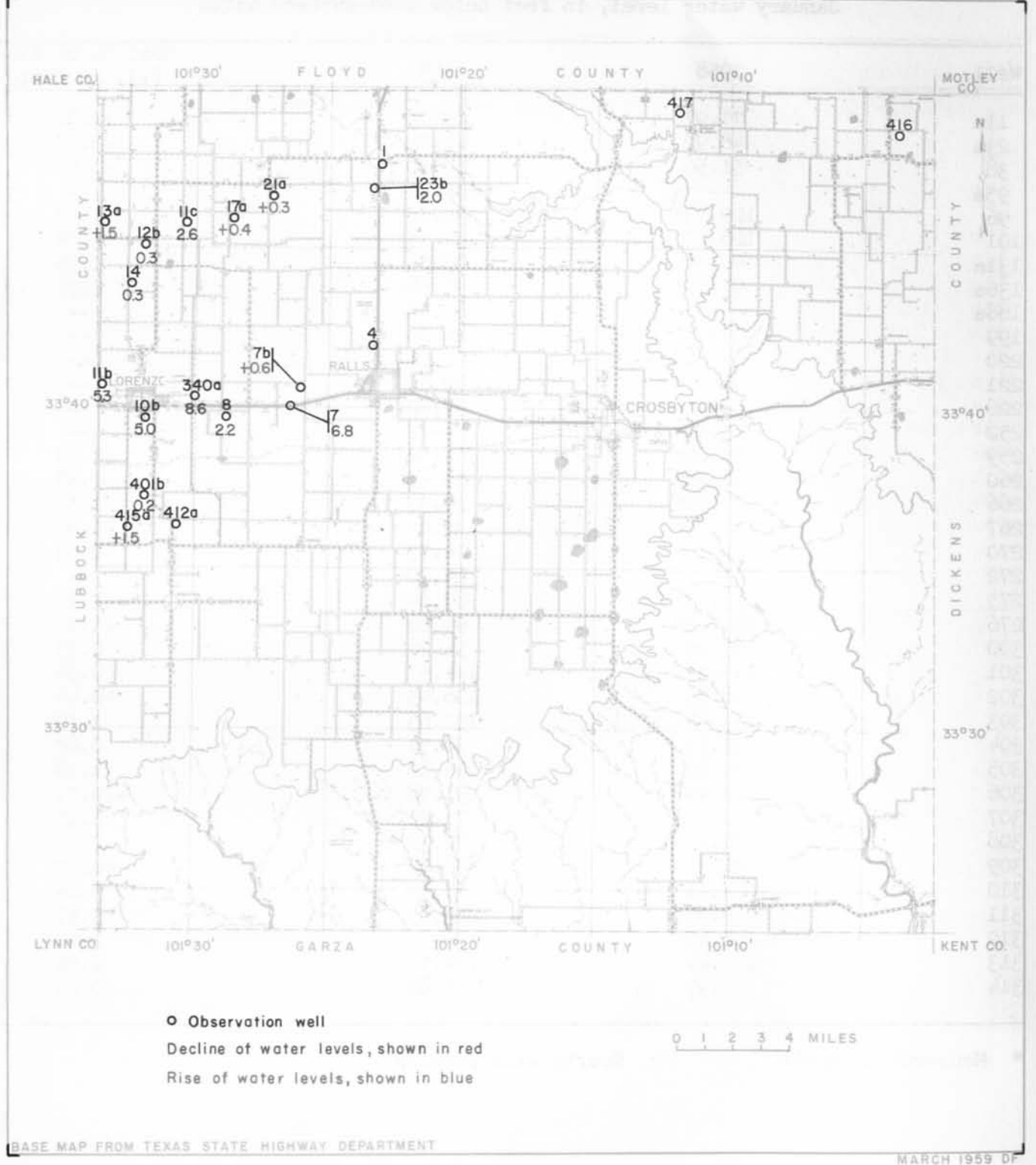


COCHRAN COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959

CROSBY COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
1	148.48	--	--
4	208.17	--	--
7	150.53	157.30	6.77
7b	191.92	191.35	+0.57
8	138.39	140.54	2.15
10b	152.55	157.55	5.00
11b	135.64	140.95	5.31
11c	154.72	157.30	2.58
12b	172.92	173.25	0.33
13a	143.03	141.49	+1.54
14	144.03	144.37	0.34
17a	149.14	148.76	+0.38
21a	149.50	149.17	+0.33
23b	155.74	157.76	2.02
340a	147.23	155.84	8.61
401b	126.41	126.58	0.17
412a	--	146.04	--
415a	100.79	99.25	+1.54
416	--	247.60	--
417	--	242.24	--



CROSBY COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO JANUARY 1959

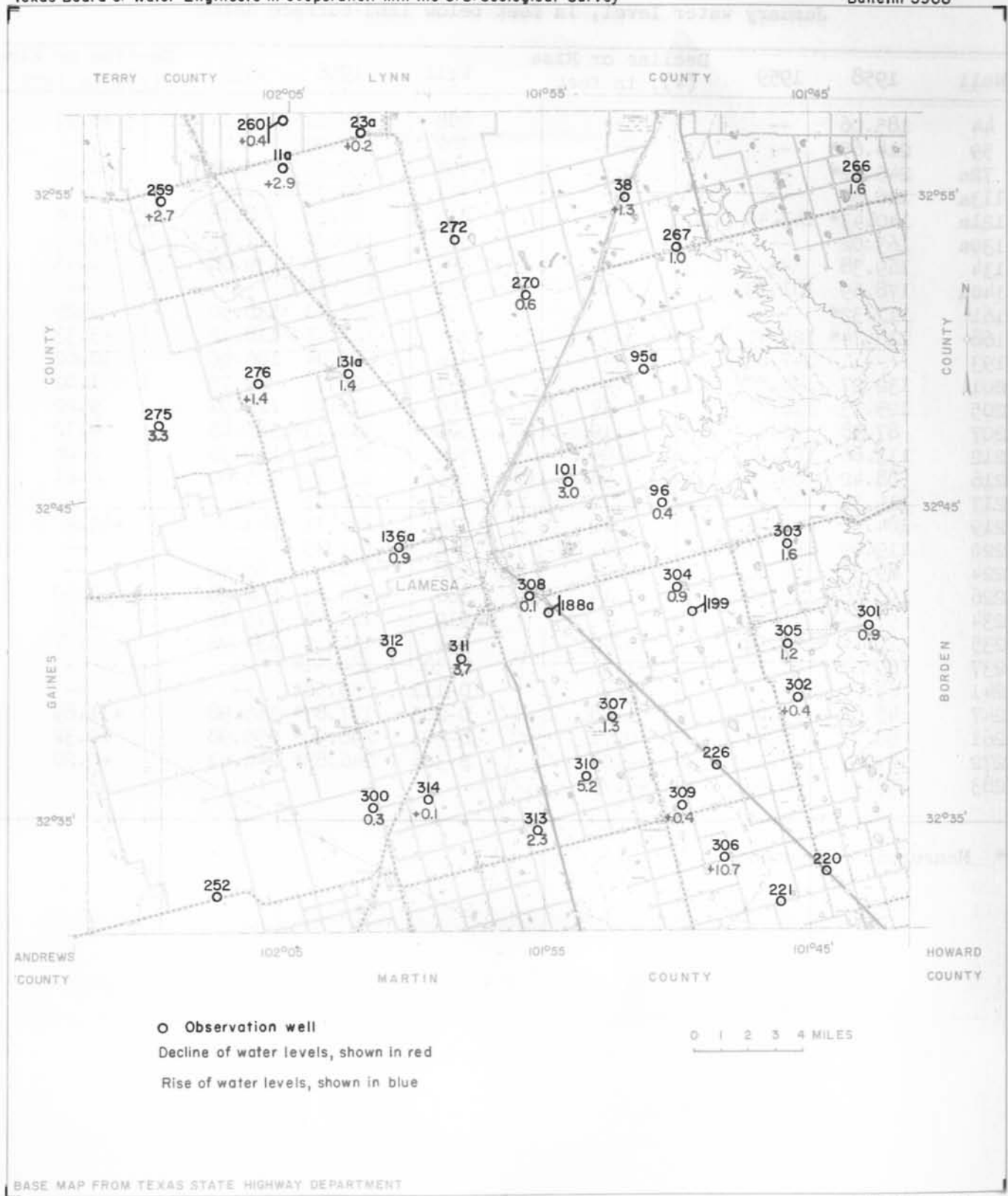
DAWSON COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
11a	71.97	69.09	+2.88
23a	48.92	48.75	+0.17
38	51.56	50.30	+1.26
95a	--	104.92	--
96	129.73*	130.10	0.37
101	128.11	131.15	3.04
131a	96.48	97.83	1.35
136a	97.77*	98.68	0.91
188a	--	67.76	--
199	--	104.05	--
220	--	98.21	--
221	--	78.60	--
226	--	92.40	--
252	45.14*	--	--
259	68.02*	65.32	+2.70
260	68.78*	68.40	+0.38
266	27.33*	28.90	1.57
267	35.10*	36.05	0.95
270	24.10*	24.73	0.63
272	--	44.10	--
275	83.73*	87.04	3.31
276	101.05*	99.68	+1.37
300	93.95	94.28	0.33
301	143.63	144.57	0.94
302	108.89	108.45	+0.44
303	149.04	150.63	1.59
304	97.63	98.51	0.88
305	114.92	116.10	1.18
306	102.49	91.78	+10.71
307	70.05	71.30	1.25
308	72.23	72.32	0.09
309	97.35	96.96	+0.39
310	83.11	88.35	5.24
311	60.28	c63.95	3.67
312	58.85	--	--
313	132.44	134.70	2.26
314	55.97	55.88	+0.09

* Measured in April

c Nearby well pumping



DAWSON COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO JANUARY 1959

APR. 1959 NMR

DEAF SMITH COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet	Well	1958	1959	Decline or Rise (+), in feet
44	185.06	--	--	288	119.11	110.14	+8.97
59	214.65*	--	--	302	73.37	--	--
72a	245.92*	--	--	305	132.21	129.26	+2.95
113a	126.54	--	--	311	80.97	--	--
121a	140.43*	143.40	2.97	315	87.28	88.76	1.48
130a	163.02	--	--	322	114.32	111.95	+2.37
134	169.38	--	--	326	138.25	139.68	1.43
140a	178.59	181.73	3.14	331	115.54	--	--
161	117.32*	--	--	336	127.21	136.50	9.29
168	118.74*	124.47	5.73	342	121.45	118.12	+3.33
193	--	147.83	--	394	96.04	106.86	10.82
201	132.27	136.70	4.43	431b	98.73	99.75	1.02
205	125.73	118.40	+7.33	486	112.79	122.01	9.22
207	87.98	92.17	4.19	500	381.13*	385.85	4.72
212	113.66	107.62	+6.04	502	147.27	149.35	2.08
216	88.42	89.98	1.56	506a	103.19	105.80	2.61
217	115.54	122.26	6.72	513a	106.83	--	--
219	104.56	107.96	3.40	514	154.71	141.3	+13.4
220	119.09	120.70	1.61	546	143.75	--	--
224	89.66	84.68	+4.98	558	--	80.40	--
226	100.56	99.42	+1.14	566	206.49	208.58	2.09
234	57.22	--	--	919	112.76	115.85	3.09
235	70.14	73.56	3.42	934	130.15	134.92	4.77
237	69.09	67.78	+1.31	D-30	180.51*	--	--
241	67.07	--	--	D-111	59.58*	--	--
247	45.82	46.90	1.08	D-203	177.87*	165.98	+11.89
261	88.75	89.46	0.71	D-303	296.30*	295.98	+0.32
272	121.77	117.74	+4.03	D-306	246.83*	246.63	+0.20
283	93.45	88.66	+4.79				

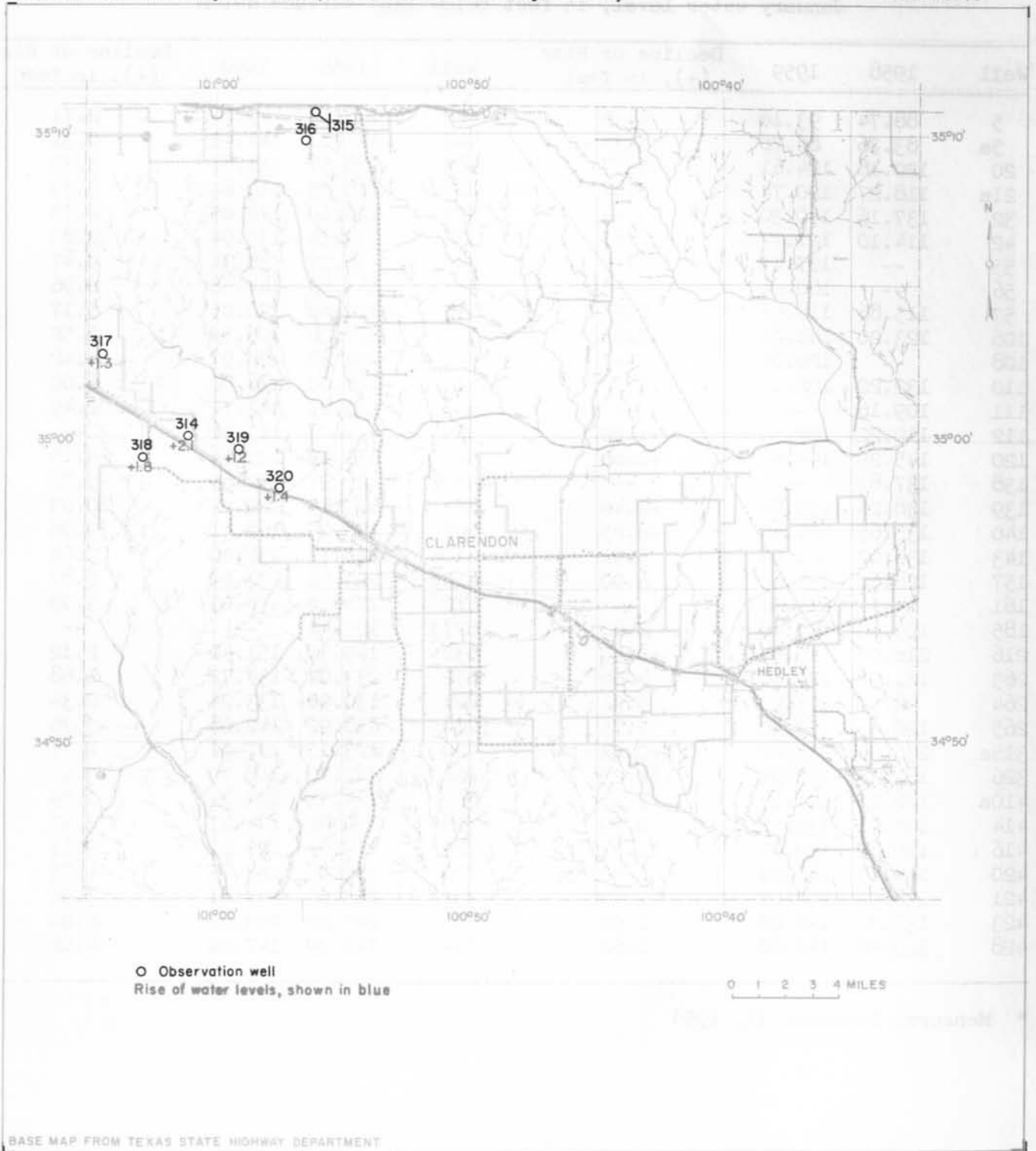
* Measured in February

DONLEY COUNTY, WATER-LEVEL MEASUREMENTS

February 1958 and March 1959 water levels, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
314	55.08	53.00	+2.08
315	--	317.62	--
316	313.59*	--	--
317	109.31	108.05	+1.26
318	106.46	104.67	+1.79
319	92.72	91.50	+1.22
320	31.44	30.05	+1.39

* Measured in January



**DONLEY COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO MARCH 1959**

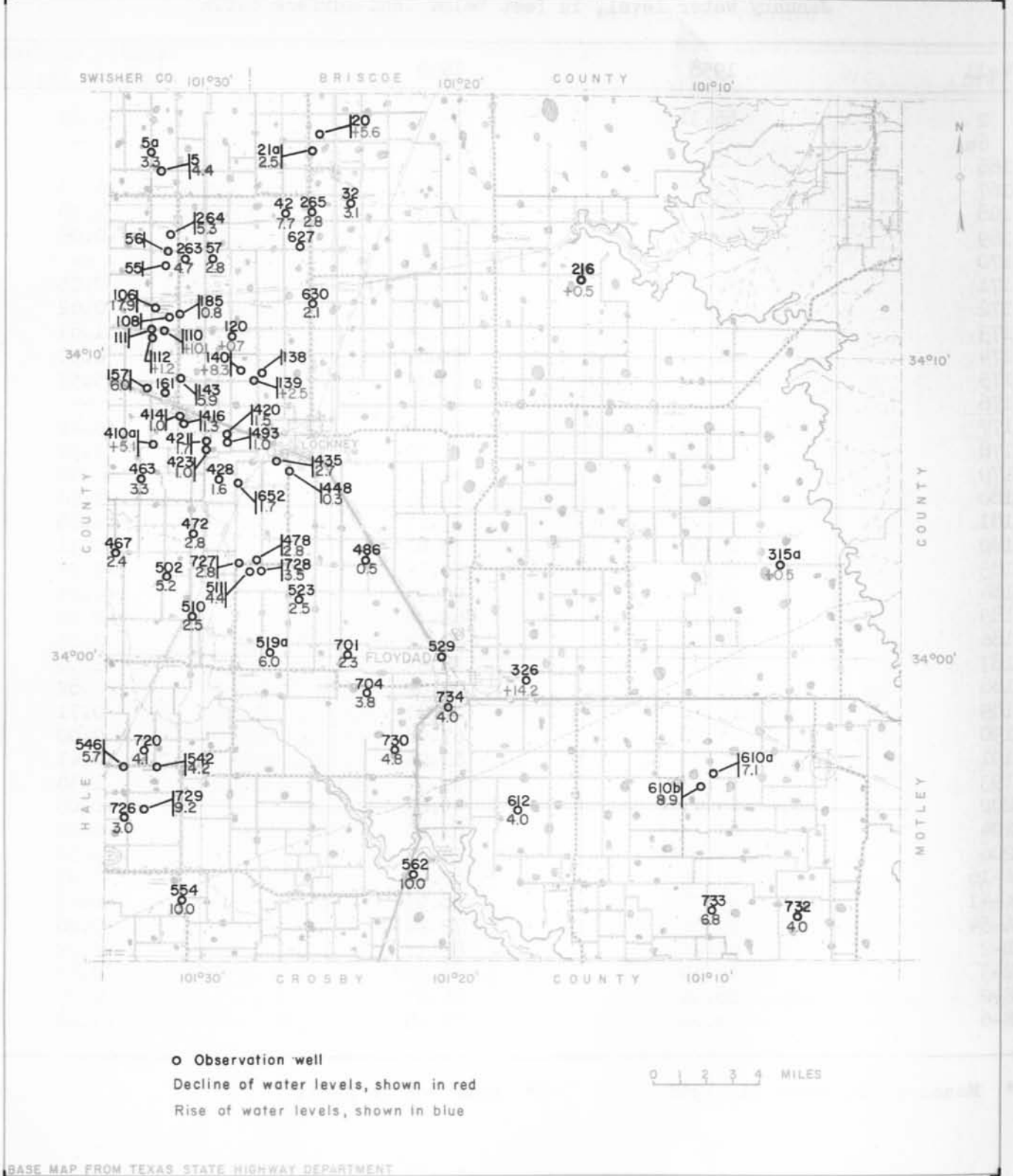
APR, 1959 NMR

FLOYD COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet	Well	1958	1959	Decline or Rise (+), in feet
5	88.74	93.10	4.36	435	146.53	149.24	2.71
5a	83.36	86.70	3.34	448	141.11	141.42	0.31
20	120.18	124.61	+5.57	463	128.57	131.87	3.30
21a	118.27	120.74	2.47	467	108.25	110.64	2.39
32	137.16	140.30	3.14	472	126.10	128.85	2.75
42	114.10	121.77	7.67	478	133.14	135.94	2.80
55	--	107.41	--	486	38.27	38.74	0.47
56	--	100.06	--	493	143.62	144.58	0.96
57	115.86	118.61	2.75	502	114.88	120.05	5.17
106	123.20	141.05	17.85	510	107.02	109.54	2.52
108	--	126.00	--	511	124.55	128.97	4.42
110	132.22	122.12	+10.10	519a	128.00	134.00	6.00
111	109.16	--	--	523	141.25	143.74	2.49
112	110.22	109.50	+1.22	529	--	113.68	--
120	145.29	144.63	+0.66	542	131.49	135.64	4.15
138	137.81	--	--	546	126.97	132.69	5.72
139	138.26	135.80	+2.46	554	119.79	129.82*	10.03
140	135.65	127.40	+8.25	562	158.44	168.40	9.96
143	136.02	141.93	5.91	610a	229.72	236.80	7.08
157	128.60	134.60	6.00	610b	225.82	234.69	8.87
161	--	134.50	--	612	174.10	178.09	3.99
185	129.68	130.48	0.80	627	123.44	--	--
216	216.00	215.55	+0.45	630	149.30	151.42	2.12
263	121.92	126.60	4.68	652	133.04	134.72	1.68
264	98.59	103.90	5.31	701	130.90	133.24	2.34
265	120.65	123.40	2.75	704	138.92	142.68	3.76
315a	235.95	235.42	+0.53	720	123.15	127.22	4.07
326	167.20	152.97	+14.23	726	111.70	108.70	+3.00
410a	126.28	121.17	+5.11	727	124.35	127.14	2.79
414	138.16	139.15	0.99	728	130.80	134.27	3.47
416	138.52	139.85	1.33	729	119.94	129.11	9.17
420	144.79	146.29	1.50	730	158.38	163.13	4.75
421	138.95	140.65	1.70	732	255.83	259.81	3.98
423	137.70	138.68	0.98	733	247.00	253.80	6.80
428	128.58	130.20	1.62	734	142.99	147.01	4.02

* Measured December 31, 1958



FLOYD COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959

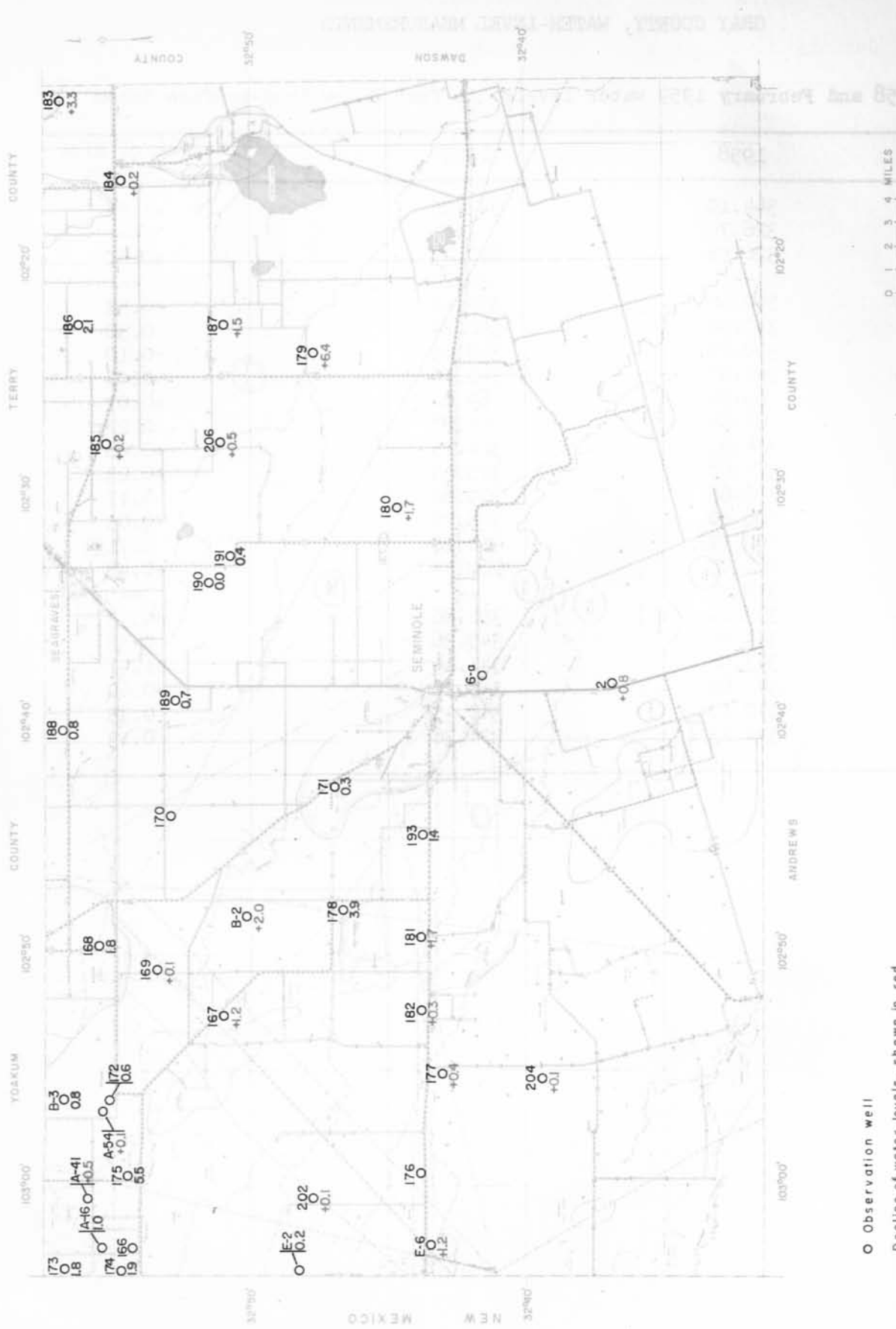
GAINES COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
2	55.31	54.48	+0.83
6a	--	42.75	--
166	--	62.70	--
167	62.15	61.00	+1.15
168	82.01	83.80	1.79
169	64.89	64.83	+0.06
170	--	82.35	--
171	82.89	83.14	0.25
172	79.18	79.80	0.62
173	65.83	67.64	1.81
174	61.99	63.89	1.90
175	44.84	50.37	5.53
176	--	54.44	--
177	74.66	74.24	+0.42
178	67.08	71.00	3.92
179	51.09	44.71	+6.38
180	57.26	55.60	+1.66
181	74.93	73.25	+1.68
182	80.12	79.81	+0.31
183	53.42	50.15	+3.27
184	97.20	96.97	+0.23
185	62.37	62.15	+0.22
186	87.00	89.13	2.13
187	30.13	28.63	+1.50
188	99.00	99.82	0.82
189	121.10	121.81	0.71
190	67.98	67.98	0.00
191	80.85	81.26	0.41
193	73.19	74.57	1.38
202	45.91**	45.83	+0.08
204	61.33**	61.25	+0.08
206	74.65**	74.13	+0.52
A-16	59.95	60.92	0.97
A-41	59.38	58.93	+0.45
A-54	74.02	73.96	+0.06
B-2	87.40	85.37	+2.03
B-3	74.69	75.52*	0.83
E-2	86.52	86.67	0.15
E-6	74.66	73.48	+1.18

* Measured December 31, 1958

** Measured in April



O Observation well
 Decline of water levels, shown in red
 Rise of water levels, shown in blue

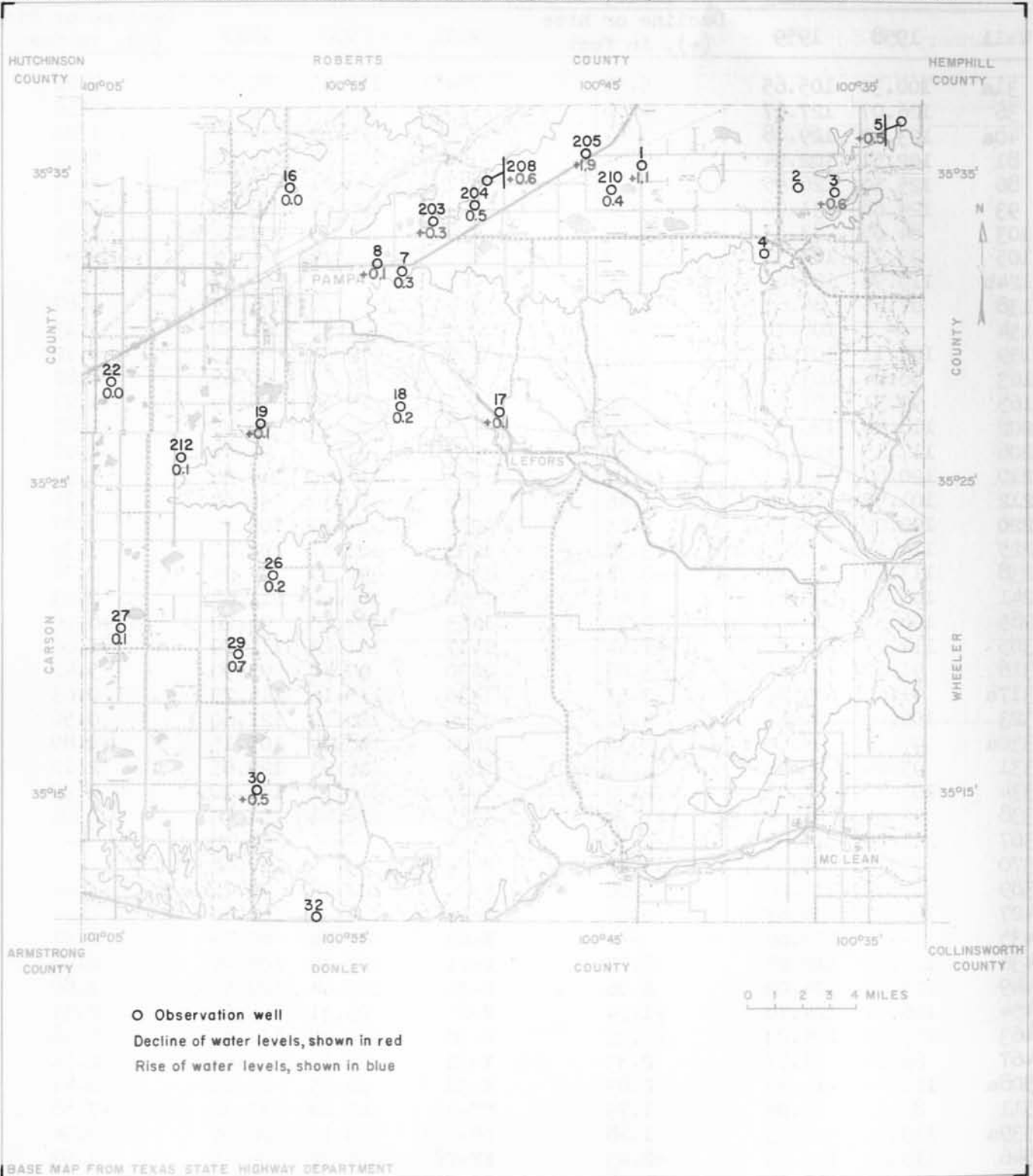
BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

GAINES COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO JANUARY 1959

GRAY COUNTY, WATER-LEVEL MEASUREMENTS

January 1958 and February 1959 water levels, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
1	344.10	343.05	+1.05
2	326.70	--	--
3	320.58	319.97	+0.61
4	--	330.24	--
5	340.02	339.49	+0.53
7	347.94	348.24	0.30
8	348.73	348.63	+0.10
16	341.97	342.00	0.03
17	69.89	69.82	+0.07
18	64.06	64.28	0.22
19	324.83	324.75	+0.08
22	375.68	375.65	+0.03
26	339.65	339.82	0.17
27	308.80	308.75	+0.05
29	309.57	310.28	0.71
30	261.02	260.54	+0.48
32	310.17	--	--
203	353.19	352.86	+0.33
204	344.85	345.38	0.53
205	343.06	341.15	+1.91
208	341.88	341.28	+0.60
210	340.10	340.45	0.35
212	324.23	324.36	0.13



O Observation well
 Decline of water levels, shown in red
 Rise of water levels, shown in blue

BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

**GRAY COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO FEBRUARY 1959**

APR. 1959 NMR

HALE COUNTY, WATER-LEVEL MEASUREMENTS

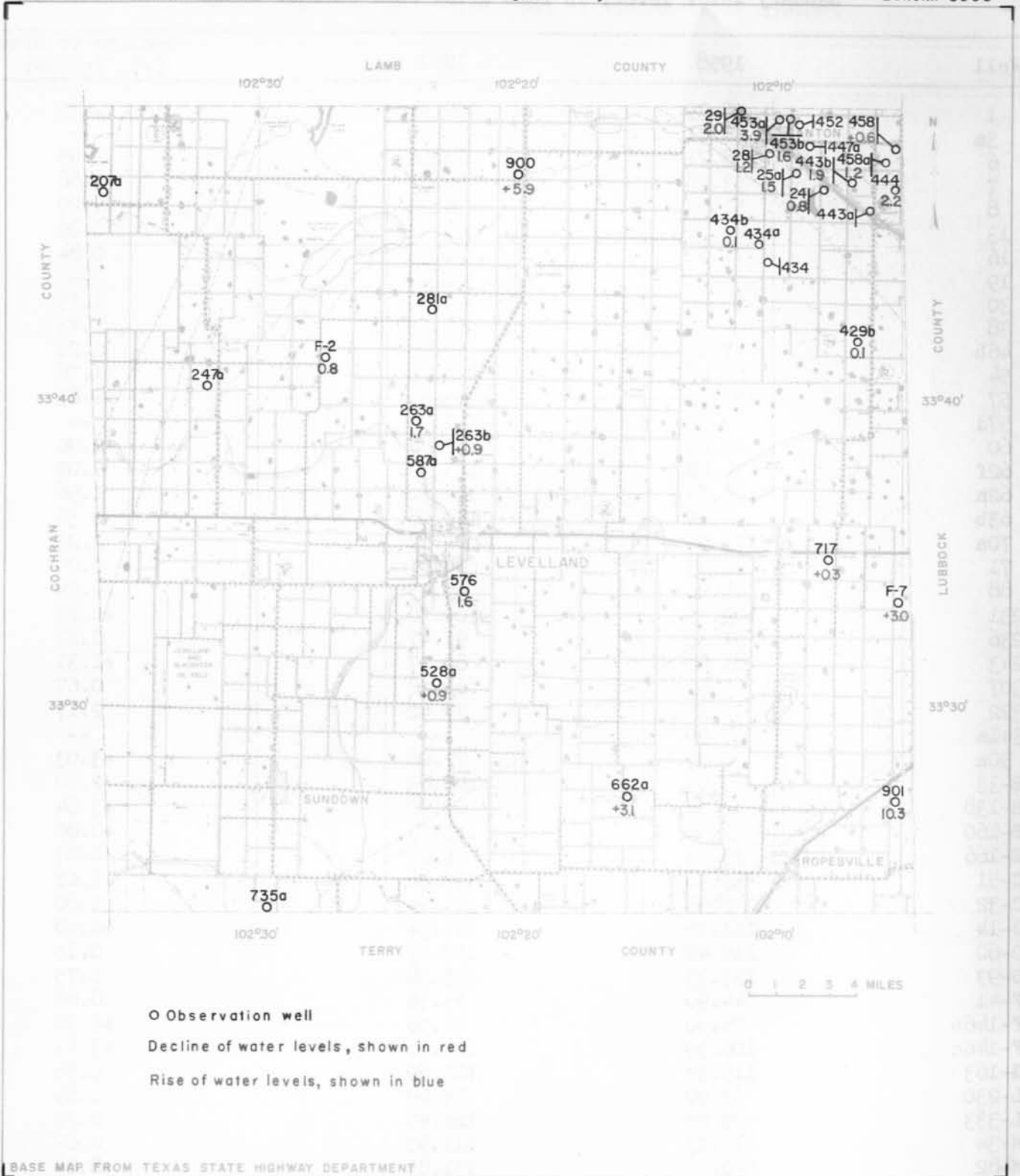
January water level, in feet below land-surface datum							
Well	1958	1959	Decline or Rise (+), in feet	Well	1958	1959	Decline or Rise (+), in feet
31a	100.30	105.65	5.35	714	117.43	121.65	4.22
36	126.07	127.67	1.60	719c	119.24	112.74	+6.50
40a	123.62	129.08	5.46	724	130.39	132.30	1.91
81	102.51	102.04	+0.47	798	122.18	124.87	2.69
86	125.50	126.45	0.95	816	82.41	85.34	2.93
93	129.68	131.00	1.32	824a	106.27	99.26	+7.01
103	84.05	83.53	+0.52	825	106.40	107.24	0.84
105	93.92	100.39	6.47	829	107.67	110.08	2.41
124b	119.98	128.60	8.62	848	--	129.32	--
138	87.65	84.66	+2.99	852a	155.18	156.05	0.87
154	--	108.75	--	859	121.37	124.50	3.13
159	107.11	107.54	0.43	906	69.33	73.45	4.12
163	98.84	103.50	4.66	923	87.83	89.65	1.82
165	99.31	107.29	7.98	929a	75.56	76.79	1.23
202	118.88	120.56	1.68	942	96.58	99.45	2.87
206	117.15	118.77	1.62	958	93.38	94.45	1.07
210	120.80	115.73	+5.07	964	114.00	119.92	5.92
212	101.92	103.38	1.46	978	130.38	136.08	5.70
220	102.09	104.74	2.65	1223	104.39	105.26	0.87
225	114.15	110.77	+3.38	1231	102.61	106.00	3.39
238	113.49	112.75	+0.74	1336	99.48	102.24	2.76
241	103.47	106.87	3.40	1358	109.60	111.63	2.03
285	106.57	108.88	2.31	1403	103.18	96.20	+6.98
305	114.25	112.81	+1.44	1417	111.13	112.79	1.66
316	91.62	94.65	3.03	1430	90.48	95.90	5.42
317a	91.02	94.55	3.53	1436	115.16	115.79	0.63
323	106.08	109.60	3.52	1529	120.10	121.60	0.50
330a	97.31	99.65	2.34	1604	108.04	105.15	+2.89
331	95.84	98.95	3.11	1811	126.93	129.05	2.12
334	101.73	104.05	2.32	1921	110.11	111.10	0.99
338	92.84	91.66	+1.18	1957	118.49	121.40	2.91
367	111.38	111.05	+0.33	C-14	--	98.16	--
370	97.10	98.35	1.25	H-93	--	117.87	--
389	107.92	110.20	2.28	K-50	101.76	98.76	+3.00
427	109.07	109.67	0.60	N-27	--	107.25	--
435	--	115.60	--	N-65	82.88	85.79	2.91
436	117.48	118.25	0.77	P-71	103.38	105.76	2.38
449	123.16	124.02	0.86	R-36	127.64	129.52	1.88
454	126.02	124.78	+1.24	V-25	93.31	95.62	2.31
463	105.45	105.23	+0.22	V-58	109.42	111.60	2.18
467	69.24	71.57	2.33	Y-36	75.10	77.61	2.51
508a	111.46	114.35	2.89	Y-38	66.65	67.06	0.41
511	81.15	82.94	1.79	CC-31	140.88	133.30	+7.58
539a	119.35	120.83	1.48	DD-101	119.11	122.05	2.94
546	115.29	112.86	+2.43	FF-78	104.52	106.45	1.93
547a	113.76	115.14	1.38	GG-76	--	106.40	--
553	112.14	115.50	3.36	HH-9	135.72	131.40	+4.32
562	--	105.18	--	HH-107	127.50	119.80	+7.70
564	113.56	115.98	2.42	HH-118	90.28	87.46	+2.82
569	85.49	89.75	4.26	JJ-50	130.18	131.92	1.74
641	110.00	112.90	2.90	LL-35	121.88	124.65	2.77
661	108.83	114.25	5.42	LL-80	147.60	144.90	+2.70
704a	108.64	110.34	1.70	MM-104	135.17	136.88	1.71

HOCKLEY COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
24	41.50	42.26	0.76
25a	41.22	42.75	1.53
28	58.53	59.77	1.24
29	57.73	59.75	2.02
207a	--	77.53	--
247a	--	130.48	--
263a	136.48	138.14	1.66
263b	148.84	147.98	+0.86
281a	--	83.85	--
429b	131.12	131.20	0.08
434	--	163.52	--
434a	--	167.95	--
434b	126.18	126.30	0.12
443a	--	99.20	--
443b	55.02	56.88	1.86
444	80.37	82.55	2.18
447a	--	76.80	--
452	--	96.35	--
453a	89.09	92.96	3.87
453b	95.81	97.40	1.59
458	114.86	114.24	+0.62
458a	89.62	90.79	1.17
528a	171.96	171.05	+0.91
576	115.85	117.43	1.58
587a	--	140.70	--
662a	121.50	118.39	+3.11
717	111.80	111.47	+0.33
735a	--	150.80	--
900	60.99*	55.05	+5.94
901	130.90*	141.15	10.25
F-2	135.51	136.30	0.79
F-7	96.22	93.19	+3.03

* Measured in April



O Observation well
 Decline of water levels, shown in red
 Rise of water levels, shown in blue

BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

HOCKLEY COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO JANUARY 1959

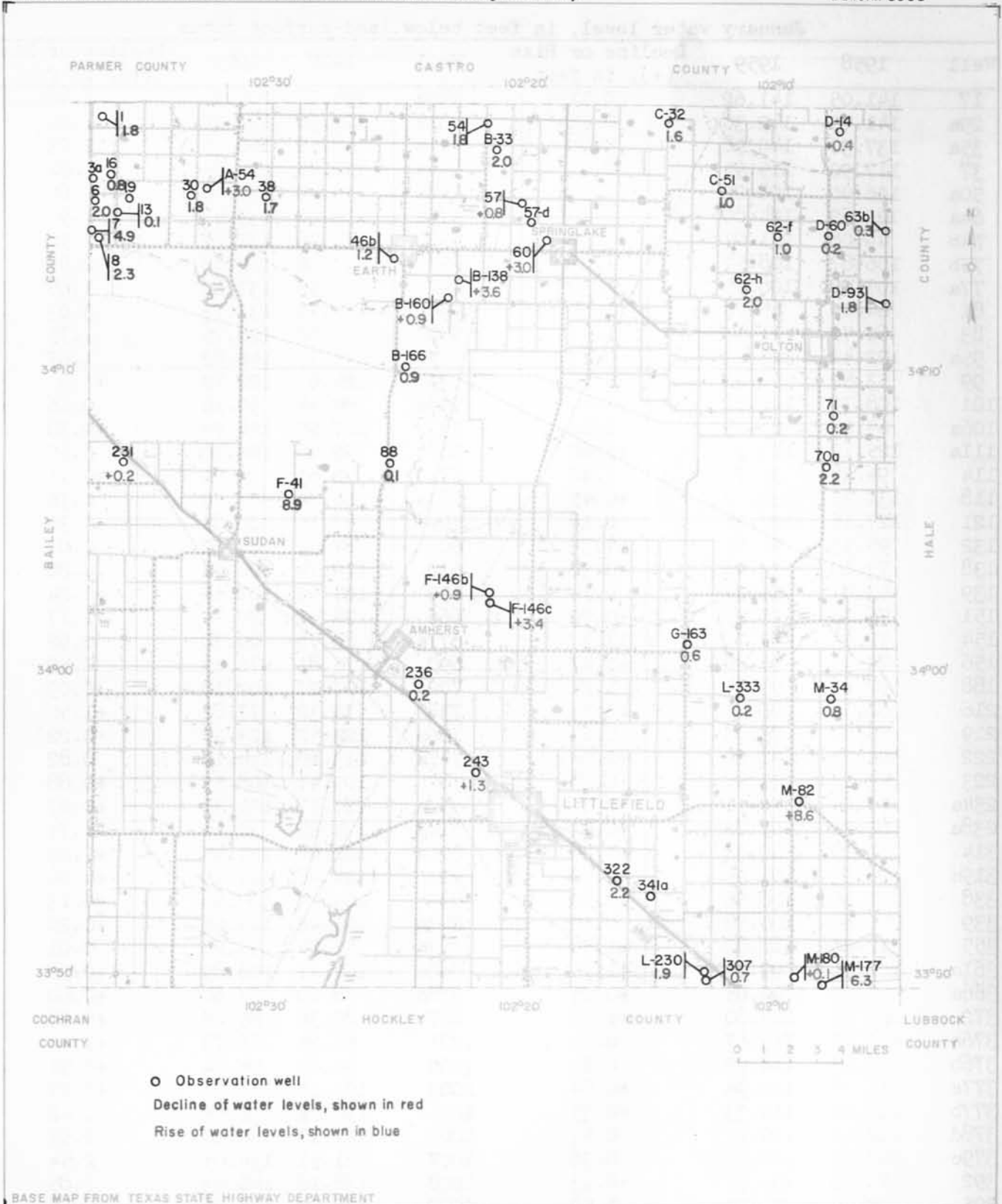
APR., 1959 NMR

LAMB COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
1	98.79	100.54	1.75
3a	58.71	--	--
6	58.71	60.66	1.95
7	53.98	58.86	4.88
8	51.91	54.20	2.29
13	62.36	62.42	0.06
16	71.52	72.36	0.84
19	--	61.82	--
30	58.30	60.05	1.75
38	62.79	64.52	1.73
46b	57.15	58.35	1.20
54	120.48	122.26	1.78
57	123.13	122.30	+0.83
57a	--	122.70	--
60	105.83	102.87	+2.96
62f	134.88	135.90	1.02
62h	122.64	124.60	1.96
63b	140.04	140.38	0.34
70a	79.95	82.18	2.23
71	90.43	90.67	0.24
88	44.36	44.45	0.09
231	109.59	109.38	+0.21
236	91.30	91.47	0.17
243	81.68	80.37	+1.31
307	65.61	66.28	0.67
322	75.25	77.42	2.17
341a	86.99	--	--
30a	80.09	77.06	+3.03
B-33	124.63	126.63	2.00
B-138	72.54	68.90	+3.64
B-160	66.59	65.73	+0.86
B-166	35.94	36.81*	0.87
C-51	132.36	133.38	1.02
C-32	110.34	111.94	1.60
D-14	111.74	111.34	+0.40
D-60	119.42	119.57	0.15
D-93	133.33	135.08	1.75
F-41	44.90	53.76	8.86
F-146b	75.50	74.58	+0.92
F-146c	106.59	103.18	+3.41
G-163	115.34	115.89	0.55
L-230	63.20	65.09	1.89
L-333	126.23	126.45	0.22
M-34	111.13	111.95	0.82
M-82	140.49	131.85	+8.64
M-177	118.56	124.90	6.34
M-180	110.39	110.33	+0.06

* Measured December 31, 1958



○ Observation well
 Decline of water levels, shown in red
 Rise of water levels, shown in blue

BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

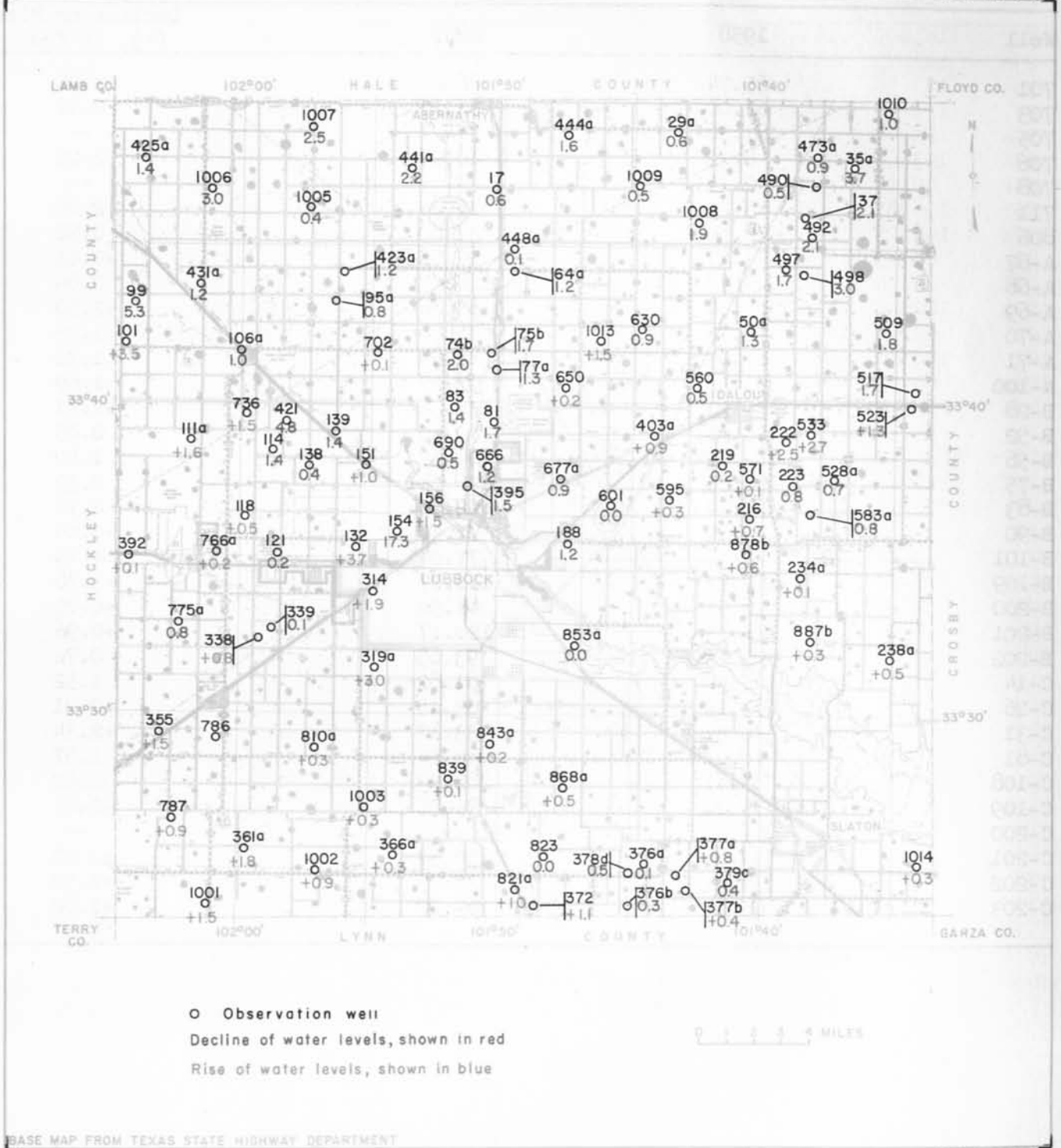
LAMB COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959

APR, 1959 NMR

LUBBOCK COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet	Well	1958	1959	Decline or Rise (+), in feet
17	141.05	141.62	0.57	425a	104.10	105.50	1.40
29a	141.75	142.30	0.55	431a	120.96	122.20	1.24
35a	137.30	140.98	3.68	441a	158.52	160.75	2.23
37	117.90	119.95	2.05	444a	152.45	154.05	1.60
50a	126.90	128.22	1.32	448a	139.40	139.45	0.05
64a	123.62	124.80	1.18	473a	138.60	139.53	0.93
74b	49.08	51.07	1.99	490	136.96	137.47	0.51
75b	106.87	108.54	1.67	492	117.06	119.13	2.07
77a	107.25	108.55	1.30	497	135.95	137.60	1.65
81	64.09	65.78	1.69	498	134.70	137.73	3.03
83	69.70	71.11	1.41	509	127.00	128.75	1.75
95a	122.40	123.23	0.83	517	145.15	146.82	1.67
99	53.52	58.80	5.28	523	124.0	122.72	+1.3
101	108.70	105.21	+3.49	528a	89.44	90.10	0.66
106a	65.03	66.05	1.02	533	117.20	114.50	+2.70
111a	125.12	123.50	+1.62	560	99.60	100.10	0.50
114	94.30	95.70	1.40	571	72.65	72.54	+0.11
118	131.35	130.90	+0.45	583a	66.74	67.50	0.76
121	127.16	127.34	0.18	595	87.15	86.85	+0.30
132	95.53	91.80	+3.73	601	87.51	87.52	0.01
138	73.60	73.98	0.38	630	119.74	120.62	0.88
139	53.87	55.31	1.44	650	107.90	107.66	+0.24
151	76.28	75.29	+0.99	666	78.02	79.19	1.17
154	72.44	89.7	17.3	677a	88.78	89.70	0.92
156	77.45	75.98	+1.47	690	75.81	76.33	0.52
188	92.63	93.84	1.21	702	107.27	107.18	+0.09
216	81.16	80.42	+0.74	736	79.32	77.82	+1.50
219	75.88	76.09	0.21	766a	123.52	123.30	+0.22
222	100.75	98.25	+2.50	775a	113.28	114.10	0.82
223	53.17	53.95	0.78	787	109.41	108.53	+0.88
234a	75.23	75.11	+0.12	810a	121.57	121.30	+0.27
238a	62.31	61.80	+0.51	818a	134.25	132.54	+1.71
314	62.19	60.33	+1.86	821a	122.48	121.45	+1.03
319a	108.93	105.95	+2.98	823	124.48	124.44	+0.04
338	107.36	106.56	+0.80	839	109.73	109.60	+0.13
339	100.66	100.78	0.12	843a	103.46	103.26	+0.20
355	112.30	110.80	+1.50	853a	53.24	53.25	0.01
361a	101.01	99.26	+1.75	868a	107.41	106.89	+0.52
366a	99.90	99.65	+0.25	878b	78.20	77.60	+0.60
372	126.88	125.80	+1.08	887b	85.36	85.08	+0.28
376a	113.57	113.67	0.10	1001	68.25	66.79	+1.46
376b	118.63	118.92	0.29	1002	95.85	94.94	+0.91
377a	111.78	110.94	+0.84	1003	103.18	102.91	+0.27
377b	115.68	115.33	+0.35	1005	132.12	132.54	0.42
378d	110.42	110.95	0.53	1006	157.13	160.10	2.97
379c	102.27	102.63	0.36	1007	131.51	134.05	2.54
392	110.08	109.95	+0.13	1008	138.18	140.03	1.85
395	72.70	74.20	1.50	1009	136.50	136.96	0.46
403a	72.88	72.0	+0.9	1010	143.64	144.65	1.01
421	69.66	74.42	4.76	1013	115.60	114.15	+1.45
423a	124.09	125.29	1.20	1014	182.60	182.35	+0.25

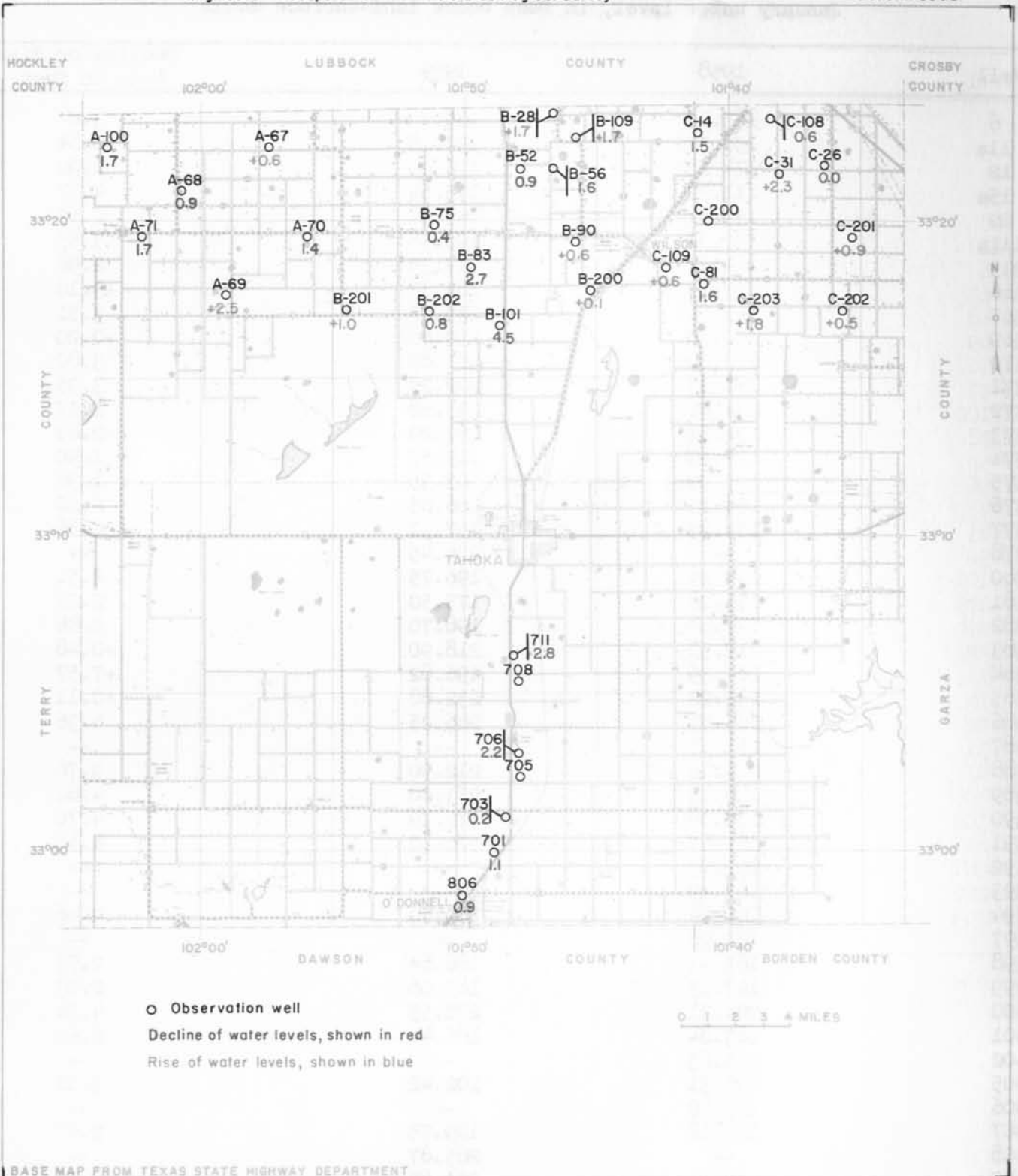


LUBBOCK COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959

LYNN COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
701	65.74	66.80	1.06
703	61.00	61.17	0.17
705	81.58	--	--
706	8.72	10.94	2.22
708	2.15	--	--
711	13.40	16.24	2.84
806	36.88	37.80	0.92
A-67	93.17	92.56	+0.61
A-68	107.78	108.67	0.89
A-69	85.86	83.36	+2.50
A-70	70.45	71.80	1.35
A-71	84.93	86.64	1.71
A-100	91.58	93.27	1.69
B-28	134.25	132.54	+1.71
B-52	118.65	119.50	0.85
B-56	102.52	104.12	1.60
B-75	106.55	106.94	0.39
B-83	90.10	92.80	2.70
B-90	78.04	77.40	+0.64
B-101	72.55	77.04	4.49
B-109	119.77	118.07	+1.70
B-200	46.55	46.50	+0.05
B-201	121.13	120.17	+0.96
B-202	92.29	93.05	0.76
C-14	80.30	81.82	1.52
C-26	63.16	63.15	+0.01
C-31	35.51	33.17	+2.34
C-81	78.67	80.24	1.57
C-108	85.47	86.09	0.62
C-109	75.00	74.38	+0.62
C-200	69.35	--	--
C-201	59.65	58.77	+0.88
C-202	38.23	37.73	+0.50
C-203	65.84	64.02	+1.82



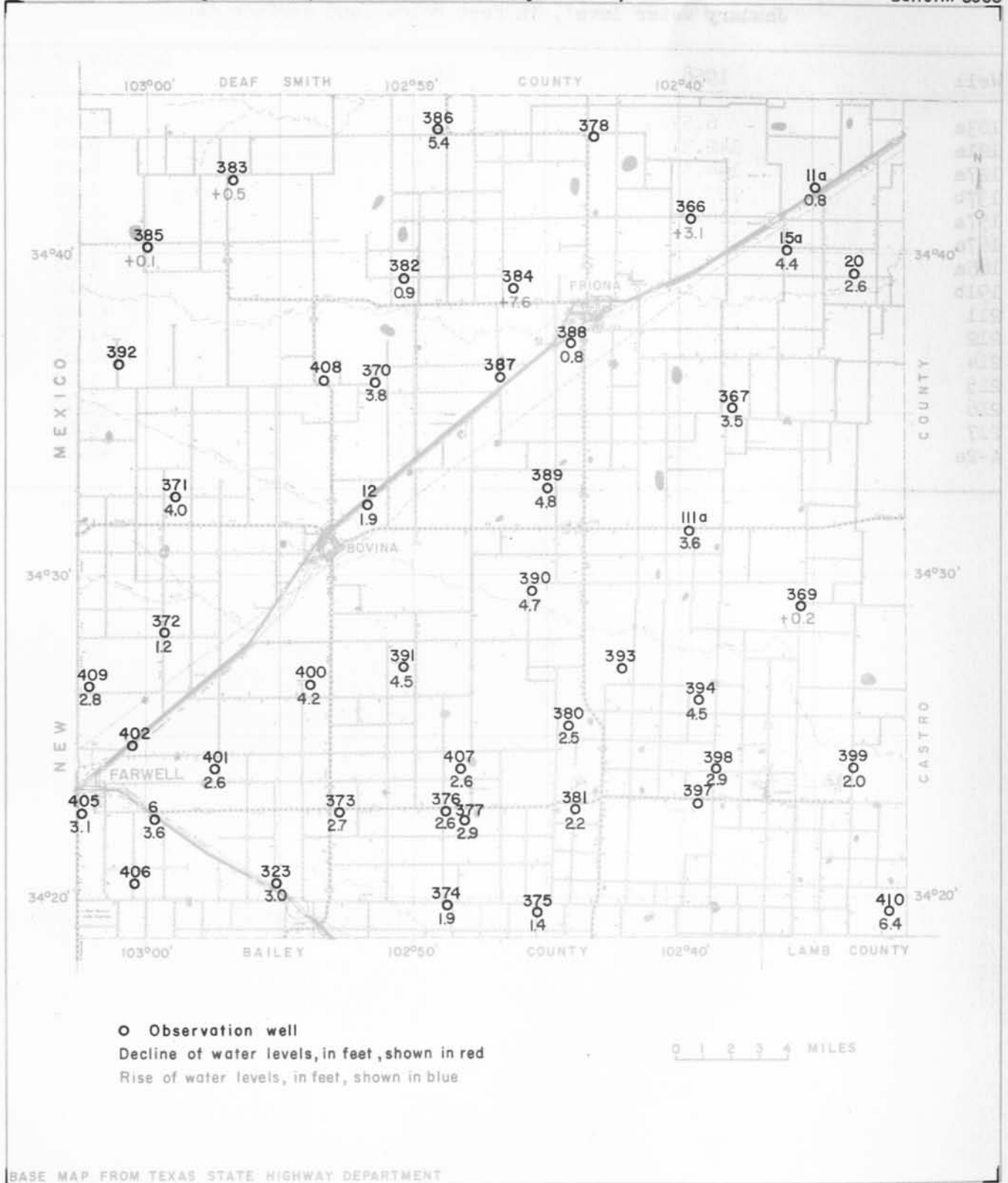
**LYNN COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959**

MAY, 1959 NMR

PARMER COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
6	163.12	166.7	3.6
11a	136.31	137.15	0.84
12	174.28	176.20	1.92
15a	171.32	175.69	4.37
20	133.41	135.98	2.57
111a	195.03	198.58	3.55
323	114.37	117.35	2.98
366	187.83	184.73	+3.10
367	235.74	239.25	3.51
369	160.08	159.88	+0.20
370	278.00	281.80	3.80
371	198.33	202.28	3.95
372	234.41	235.58	1.17
373	154.51	157.20	2.69
374	117.60	119.50	1.90
375	103.99	105.35	1.36
376	164.25	166.85	2.60
377	154.25	157.11	2.86
378	--	224.45	--
380	194.24	196.75	2.51
381	173.28	175.50	2.22
382	197.84	198.70	0.86
383	219.38	218.90	+0.48
384	204.39	196.82	+7.57
385	232.99	232.88	+0.11
386	283.59	288.95	5.36
387	251.16	--	--
388	212.12	212.90	0.78
389	228.18	233.00	4.82
390	168.00	172.70	4.70
391	221.67	226.12	4.45
392	292.83	--	--
393	183.49	--	--
394	164.94	169.40	4.46
397	183.98	--	--
398	183.91	186.84	2.93
399	147.03	149.06	2.03
400	224.31	228.55	4.24
401	183.84	186.44	2.60
402	215.63	--	--
405	199.31	202.42	3.11
406	175.10	--	--
407	187.18	189.75	2.57
408	--	265.87	--
409	229.11	231.87	2.76
410	150.52	156.95	6.43



BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

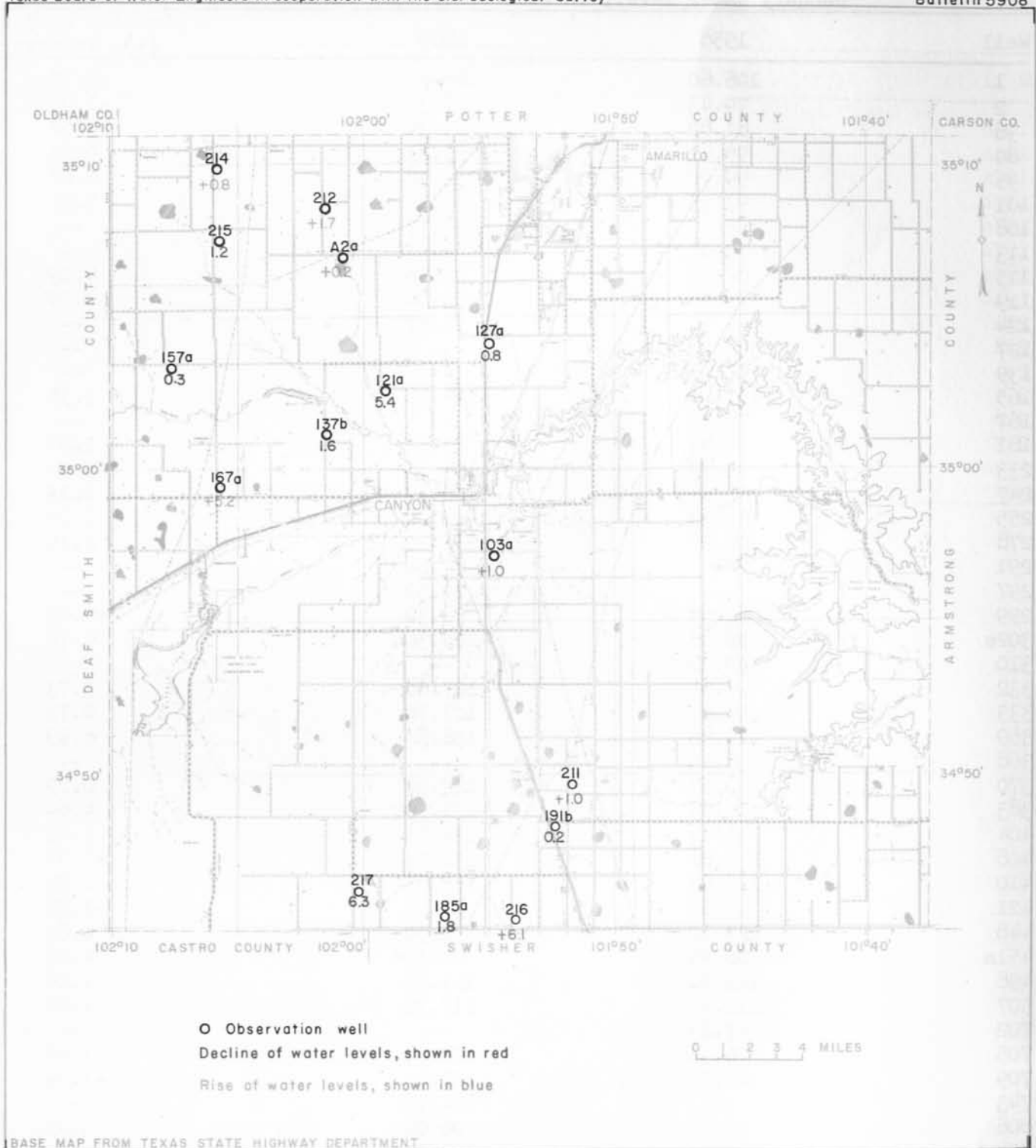
**PARMER COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959**

FEB. 1959 OF

RANDALL COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
103a	6.53	5.50	+1.03
121a	142.31	147.75	5.44
127a	144.30	145.05	0.75
137b	125.84	127.40	1.56
157a	118.99	119.30	0.31
167a	128.37	123.20	+5.17
185a	172.67	174.50	1.83
191b	186.88	187.08	0.20
211	172.04	171.02	+1.02
212	166.55	164.85	+1.70
214	184.05	183.23	+0.82
215	159.08	160.27	1.19
216	162.78	156.68	+6.10
217	172.52	178.77	6.25
A-2a	138.77	138.58	+0.19



**RANDALL COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO JANUARY 1959**

MARCH 1959 DF

SWISHER COUNTY, WATER-LEVEL MEASUREMENTS

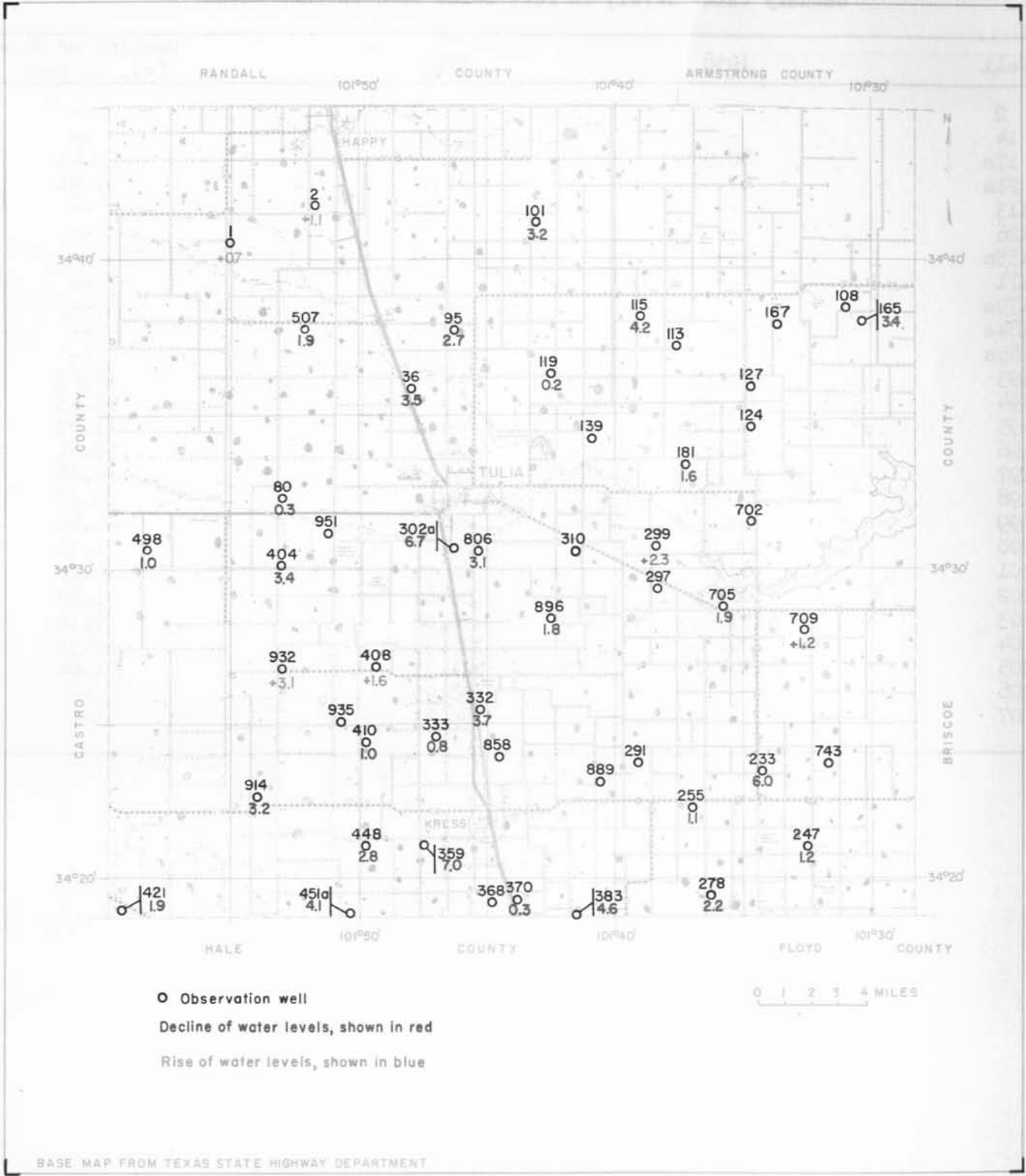
January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
1	106.60	105.90	+0.70
2	79.43	78.34	+1.09
36	81.82	85.34	3.52
80	95.49	95.82	0.33
95	99.50	102.18	2.68
101	97.35	100.57	3.22
108	--	105.77	--
113	79.02	--	--
115	82.39	86.58	4.19
119	79.85	80.04	0.19
124	--	77.57	--
127	98.23	--	--
139	75.75	--	--
165	111.75	115.10	3.35
167	78.30	--	--
181	87.93	89.53	1.60
233	99.79	105.78	5.99
247	98.94	100.17	1.23
255	83.03	84.08	1.05
278	109.25	111.40	2.15
291	--	87.64	--
297	--	79.50	--
299	60.59	58.30	+2.29
302a	98.60	105.30	6.70
310	99.32	--	--
332	103.95	107.68	3.73
333	106.95	107.70	0.75
359	129.86	136.85	6.99
368	138.65	--	--
370	122.67	122.96	0.29
383	116.66	121.30	4.64
404	136.13	139.55	3.42
408	132.82	131.25	+1.57
410	116.68	117.65	0.97
421	96.67	98.55	1.88
448	129.10	131.90	2.80
451a	86.34	90.39*	4.05
498	122.68	123.68	1.00
507	110.45	112.30	1.85
702	47.83	--	--
705	76.51	c78.45	1.94
709	108.70	107.51	+1.19
743	--	b84.16	--
806	92.90	96.02	3.12
858	--	105.30	--
889	108.58	--	--
896	82.41	84.25	1.84
914	143.19	c146.40	3.21
932	137.41	134.36	+3.05
935	119.85	--	--
951	--	90.95	--

* Measured December 31, 1958

b Pumped recently

c Nearby well pumping



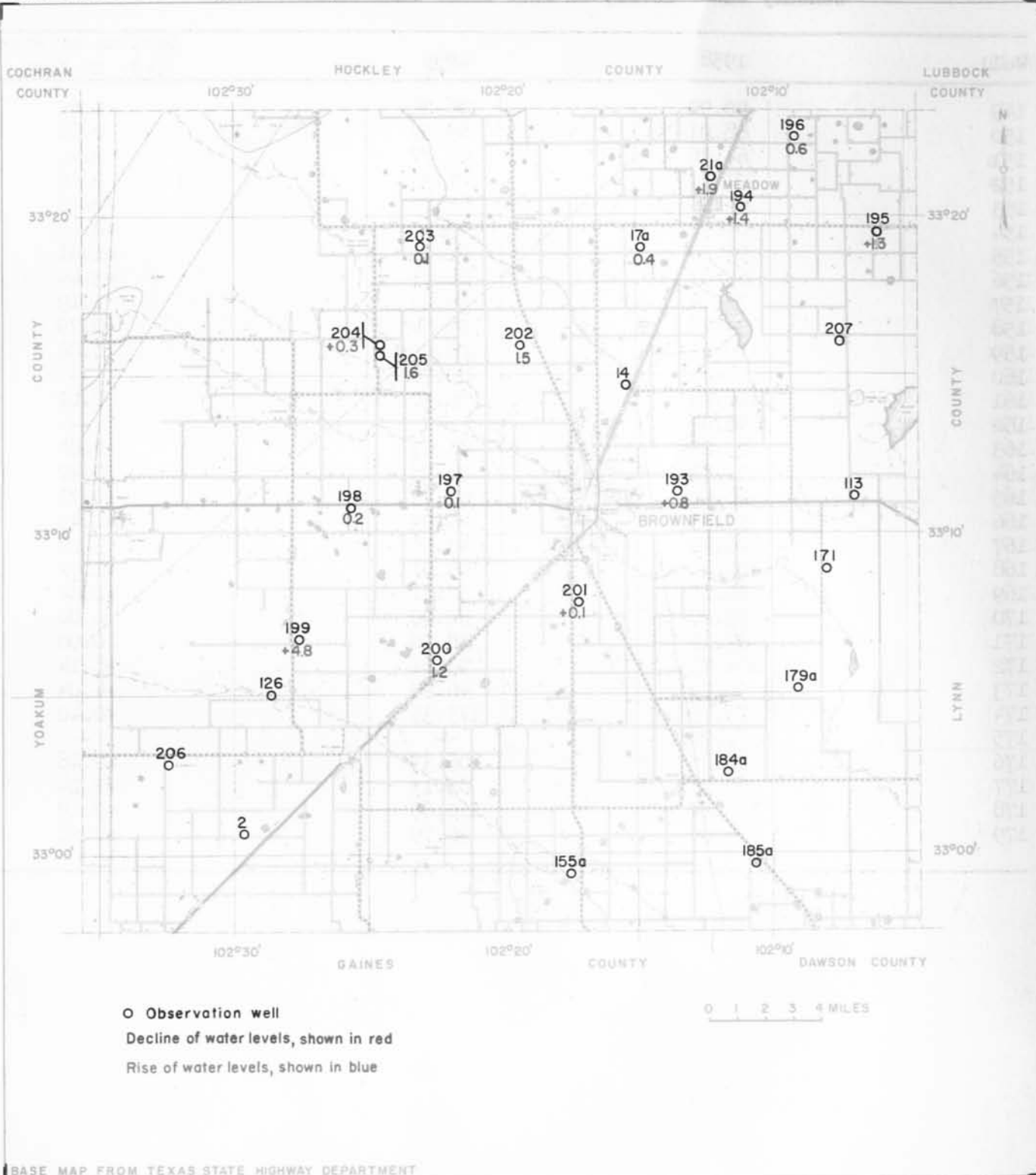
SWISHER COUNTY, CHANGE IN WATER LEVELS
JANUARY 1958 TO JANUARY 1959

APR. 1959 NMR

TERRY COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
2	--	97.40	--
14	--	90.52	--
17a	80.98	81.39	0.41
21a	67.58	65.67	+1.91
113	--	11.15	--
126	--	31.70	--
155a	--	102.20	--
171	--	12.55	--
179a	--	59.00	--
184a	--	99.77	--
185a	--	71.81	--
193	81.25	80.42	+0.83
194	84.48	83.05	+1.43
195	90.51	89.22	+1.29
196	63.89	64.50	0.61
197	101.98	102.06	0.08
198	145.24	145.41	0.17
199	68.35	63.52	+4.83
200	104.70	105.85	1.15
201	82.60	82.50	+0.10
202	108.14	109.64	1.50
203	155.91	156.05	0.14
204	126.26	125.95	+0.31
205	119.71	121.35	1.64
206	--	98.95	--
207	--	86.63	--



BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

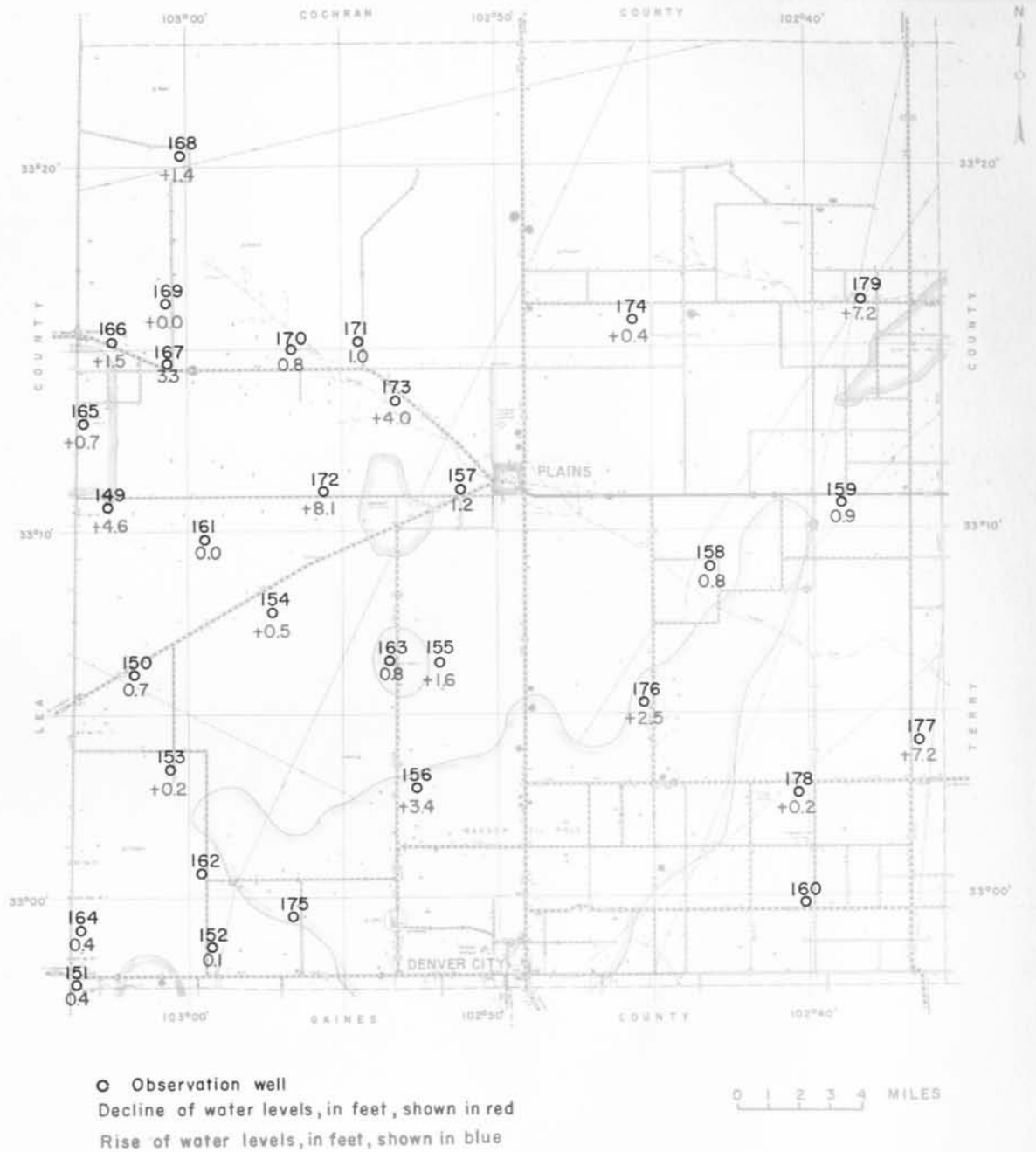
**TERRY COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959**

APR., 1959 NMR

YOAKUM COUNTY, WATER-LEVEL MEASUREMENTS

January water level, in feet below land-surface datum

Well	1958	1959	Decline or Rise (+), in feet
149	90.90	86.28	+4.62
150	68.91	69.59	0.68
151	64.36	64.77	0.41
152	77.31	77.39	0.08
153	65.99	65.83	+0.16
154	83.90	83.45	+0.45
155	93.38	91.77	+1.61
156	63.61	60.17	+3.44
157	73.04	74.23	1.19
158	94.75	95.54	0.79
159	119.61	120.49	0.88
160	--	88.78	--
161	106.28	106.30	0.02
162	58.93	--	--
163	83.29	84.13	0.84
164	51.73	52.15	0.42
165	68.46	67.75	+0.71
166	51.45	49.99	+1.46
167	40.22	43.50	3.28
168	105.33	103.91	+1.42
169	50.15	50.11	+0.04
170	59.20	60.00	0.80
171	87.12	88.10	0.98
172	101.75	93.61	+8.14
173	50.29	46.25	+4.04
174	115.75	115.35	+0.40
175	71.78	--	--
176	108.85	106.37	+2.48
177	92.37	85.13	+7.24
178	110.84	110.65	+0.19
179	104.00	96.79	+7.21



BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

FEB. 1959 DT

YOAKUM COUNTY, CHANGE IN WATER LEVELS
 JANUARY 1958 TO JANUARY 1959

