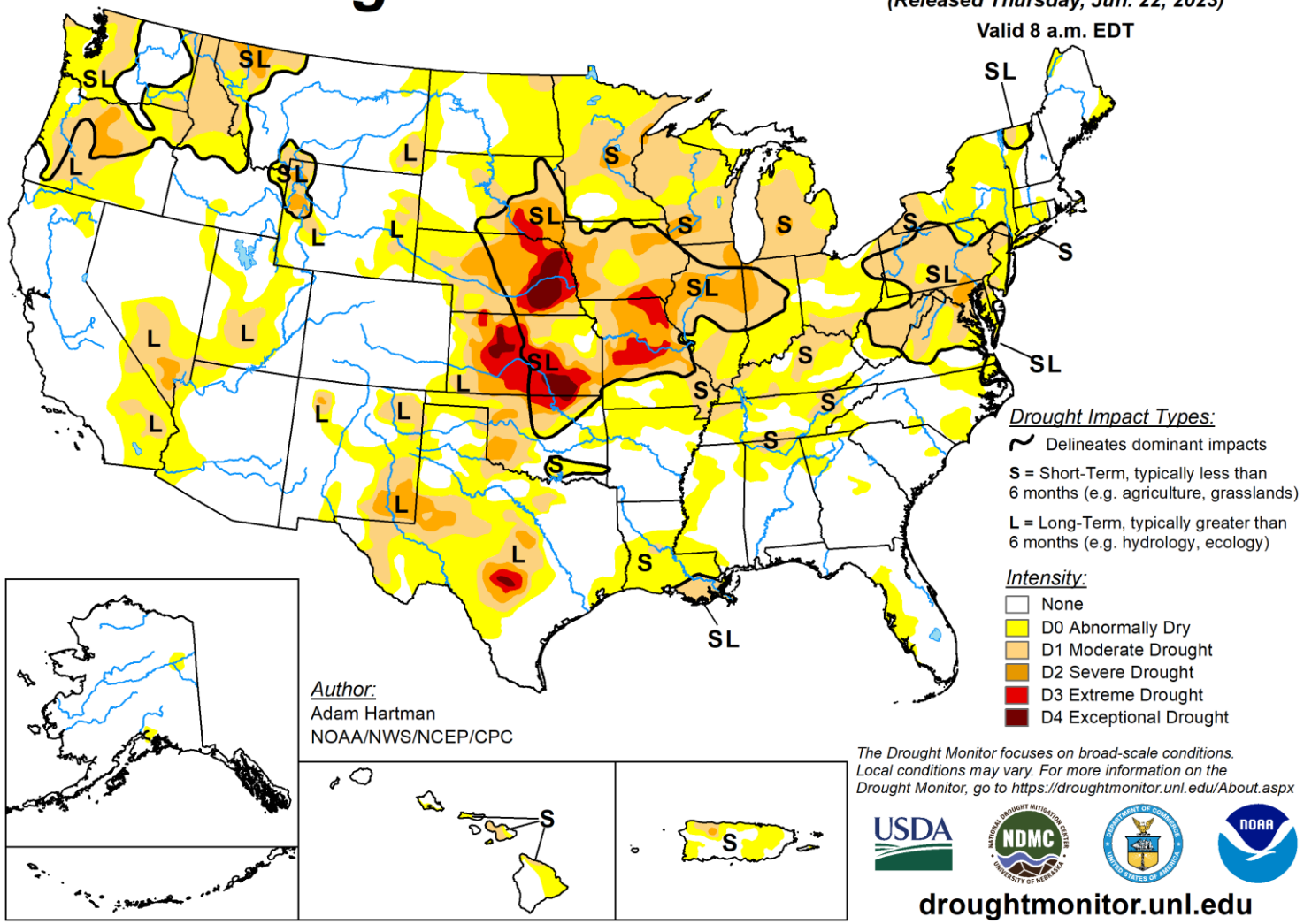
U.S. Drought Monitor

June 20, 2023

(Released Thursday, Jun. 22, 2023)

Valid 8 a.m. EDT



Drought Impact Types:

Delineates dominant impacts

S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

Author:
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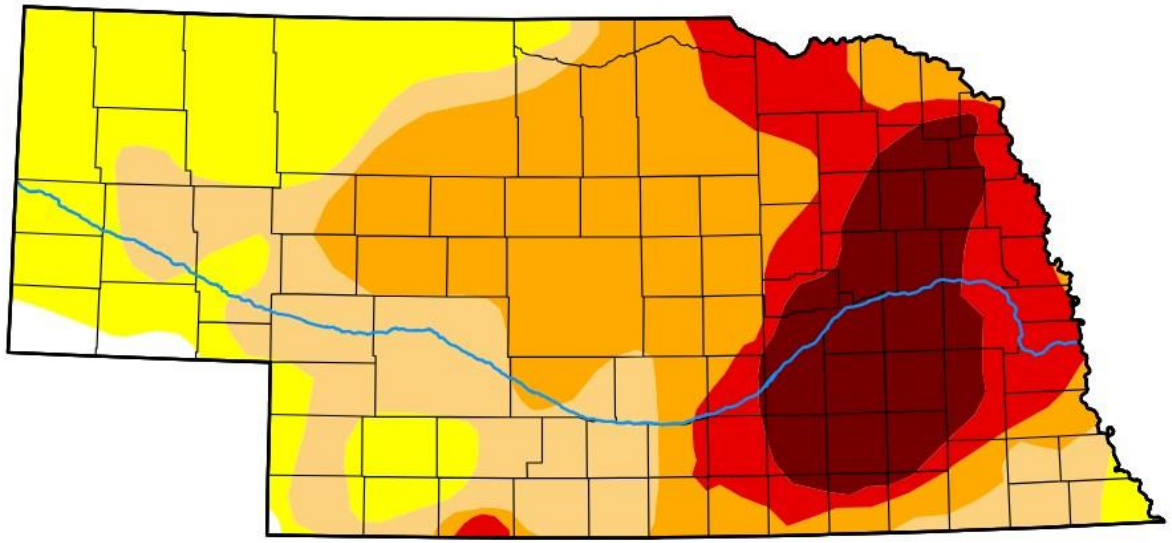
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

droughtmonitor.unl.edu

U.S. Drought Monitor

Current | Maps | Data | Summary | About | Conditions & Outlooks | Ag in Drought | En Español | NADM



Map released: Thurs. June 22, 2023

Data valid: June 20, 2023 at 8 a.m. EDT

Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Authors

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Richard Heim, NOAA/NCEI

Monthly and Annual Precipitation Totals (in inches) 1887 thru Last Month

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
2023	1.32	1.29	0.63	0.59	0.51	.	.	.	.	.	.	.	4.34
2022	0.28	0.03	1.96	3.05	5.27	3.73	2.57	0.55	0.97	0.61	0.26	0.64	19.92

2023	1.32	1.29	0.63	0.59	0.51	.	.	.	.	.	.	.	4.34
2022	0.28	0.03	1.96	3.05	5.27	3.73	2.57	0.55	0.97	0.61	0.26	0.64	19.92
2021	1.53	0.79	5.23	1.74	2.55	4.46	1.73	3.41	0.64	4.04	0.49	0.25	26.86
2020	1.29	0.13	1.67	0.88	5.09	3.15	5.73	1.27	1.62	0.40	1.20	1.20	23.63
2019	0.75	1.59	2.65	1.13	7.29	4.38	4.08	2.79	3.40	4.69	0.79	2.57	36.11
2018	0.41	0.74	2.71	0.67	2.23	8.83	1.35	4.35	7.13	2.71	1.19	3.32	35.64
2017	1.10	0.55	1.62	3.55	6.29	7.35	5.99	3.38	1.85	4.90	0.07	0.38	37.03
2016	0.83	0.76	0.93	4.37	5.42	0.58	4.67	3.83	3.38	1.86	0.65	1.62	28.90
2015	0.91	0.93	0.77	1.99	10.90	7.66	2.39	3.78	4.93	0.50	1.98	4.42	41.16
2014	0.24	0.62	0.13	3.50	5.26	5.90	0.51	7.54	6.89	2.46	0.47	1.22	34.74
2013	0.73	0.54	2.12	4.02	8.44	2.49	1.00	1.11	1.99	2.83	1.22	0.22	26.71
2012	0.16	2.10	0.89	3.49	3.00	3.57	0.33	0.30	1.73	1.92	0.15	1.50	19.14
2011	1.07	0.79	0.66	3.27	6.00	3.44	1.55	6.89	1.33	0.93	1.66	1.58	29.17

January thru May precipitation

January thru May precipitation			Yearly Total
2023	4.34		
2022	10.59		19.92
2021	11.84		26.86
2020	9.06		23.63
2019	13.41		36.11
2018	6.76		35.64
2017	13.11		37.03
2016	12.31		28.9
2015	15.5		41.16
2014	9.75		34.74
2013	15.85		26.71
2012	9.64		19.14
2011	11.79		29.17
2010	9.81		34.42

Precipitation needed to meet previous years totals

15.58	2022
22.52	2021
19.29	2020
31.77	2019
31.3	2018
32.69	2017
24.56	2016
36.82	2015
30.4	2014
22.37	2013
14.8	2012
24.83	2011
30.08	2010

Lincoln's recorded historical year with the least amount of precipitation

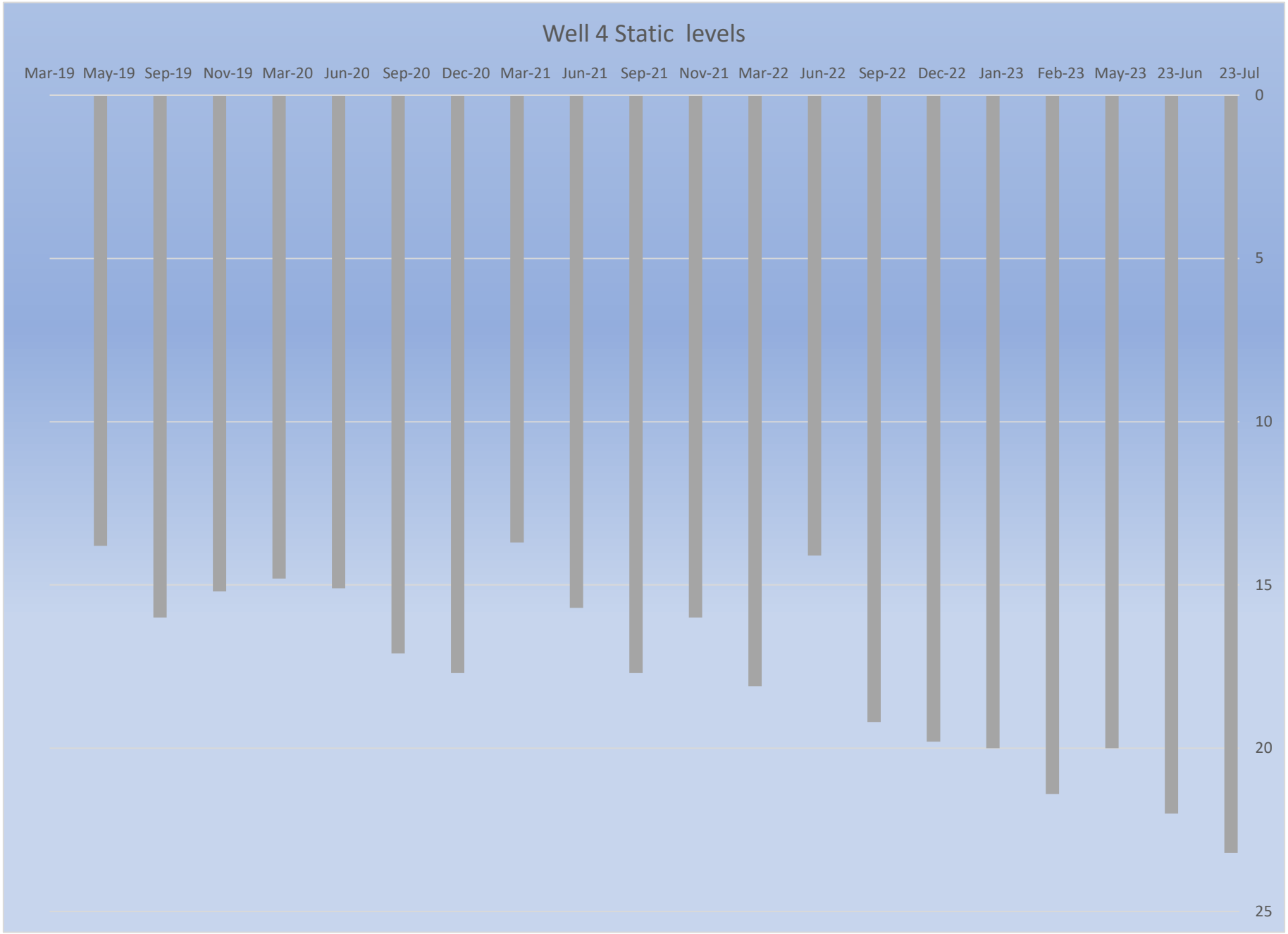
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
1936	1.64	0.68	0.18	2.29	1.95	1.13	0.08	1.63	3.38	0.19	0.06	0.88	14.09

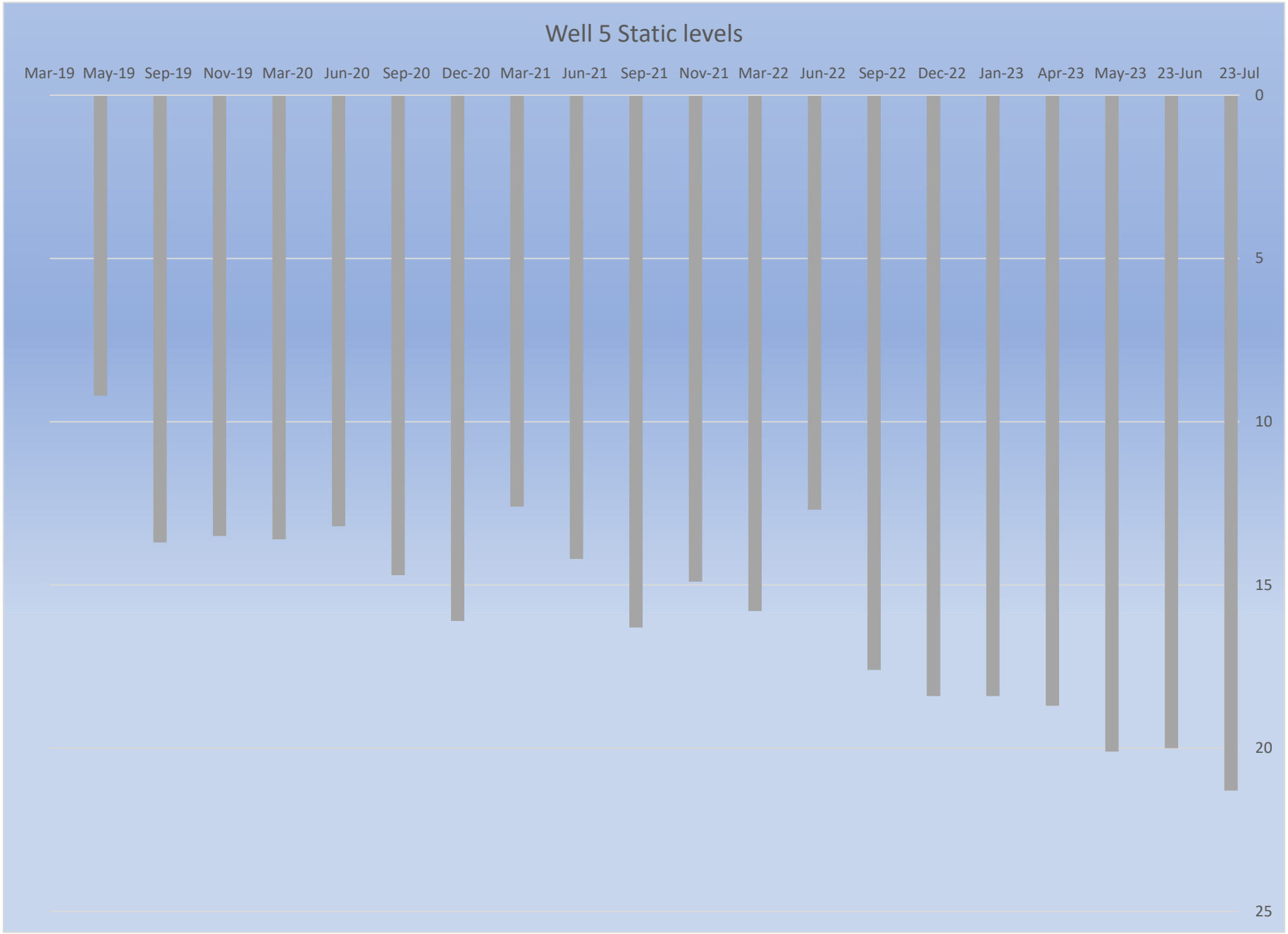
YEAR	JAN	FEB	MAR	APR	MAY
2023	1.32	1.29	0.63	0.59	0.51
1936	1.64	0.68	0.18	2.29	1.95

1936 January-May total precipitation 6.74 inches
2023 January-May total precipitation 4.34 inches

We still need 9.75 inches of precipitation to equal the 1936 yearly total

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
1939	0.59	1.54	2.1	1.66	1.61	4.16	2.81	2.61	0.26	0.93	0.52	0.94	19.73
1938	0.87	1.21	1.7	3.63	5.64	2.89	2.25	4.63	2.94	0.4	1.98	0.26	28.4
1937	1.37	0.21	2.38	1.22	1.89	3.79	3.1	1.69	1.11	2.29	0.14	0.17	19.36
1936	1.64	0.68	0.18	2.29	1.95	1.13	0.08	1.63	3.38	0.19	0.06	0.88	14.09
1935	0.3	0.87	0.96	1.33	5.44	3.81	3.83	2.47	2.71	2.23	1.87	0.3	26.12
1934	0.25	0.78	0.8	0.35	0.49	2.47	0.4	2.59	4.47	1.93	2.26	0.44	17.23
1933	0.37	0.29	3.4	1.21	1.58	2.53	5.63	4.32	4.81	0.09	0.6	1.67	26.5
1932	1.92	0.66	0.81	1.2	2.82	4.46	5.68	4.36	1.83	1.58	0.04	0.81	26.17
1931	0.19	1.09	1.39	1.75	6.41	4.42	2.04	3.79	3.79	1.56	5.6	2.26	34.29
1930	0.87	0.31	0.58	2.72	3.1	2.95	1.06	3.75	1.36	0.52	3.4	0.12	20.74


Well 4 Static levels
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Feb-23
May-23
23-Jun
23-Jul
0
5
10
15
20
25


Well 5 Static levels
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Apr-23
May-23
23-Jun
23-Jul
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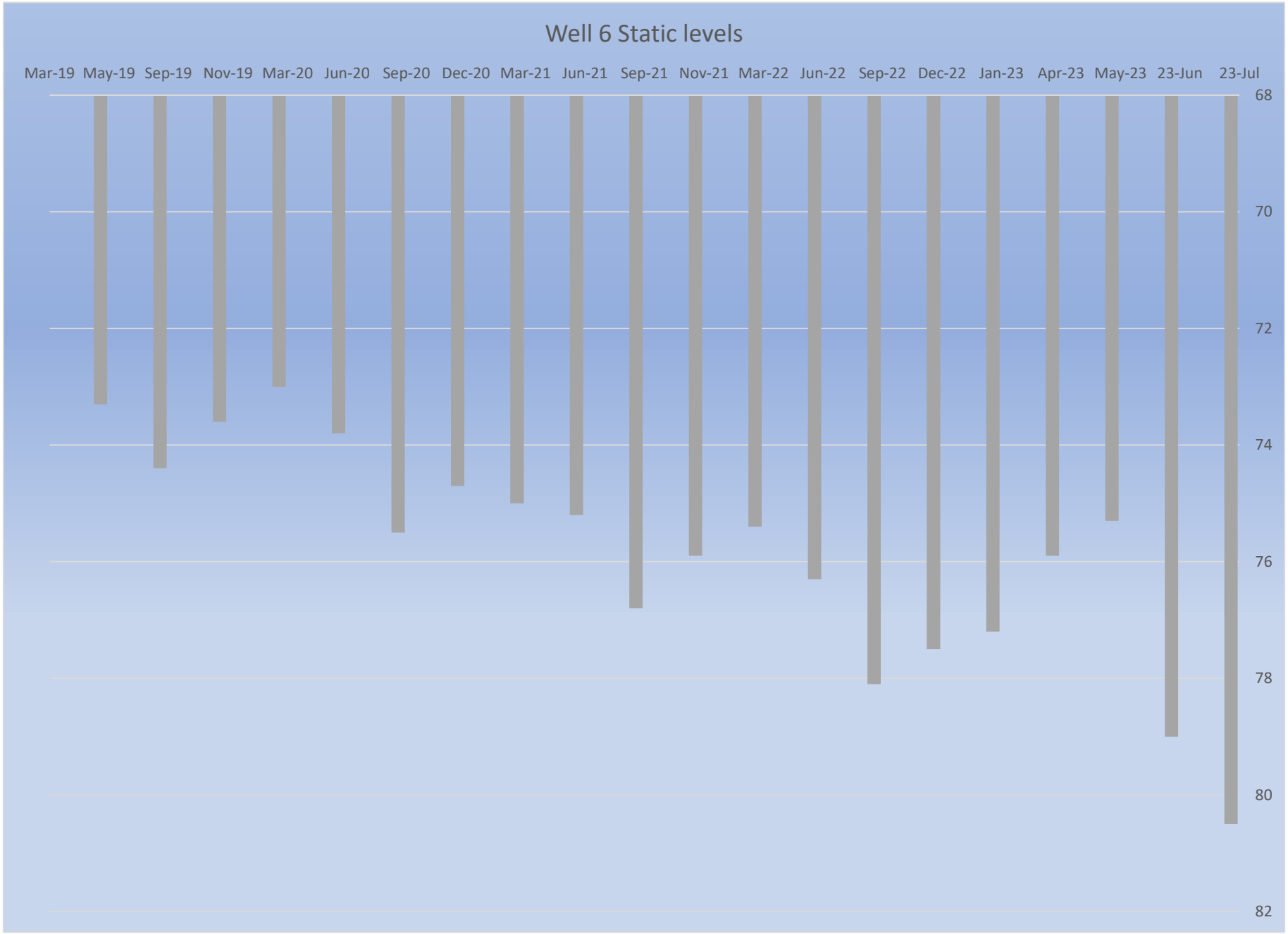
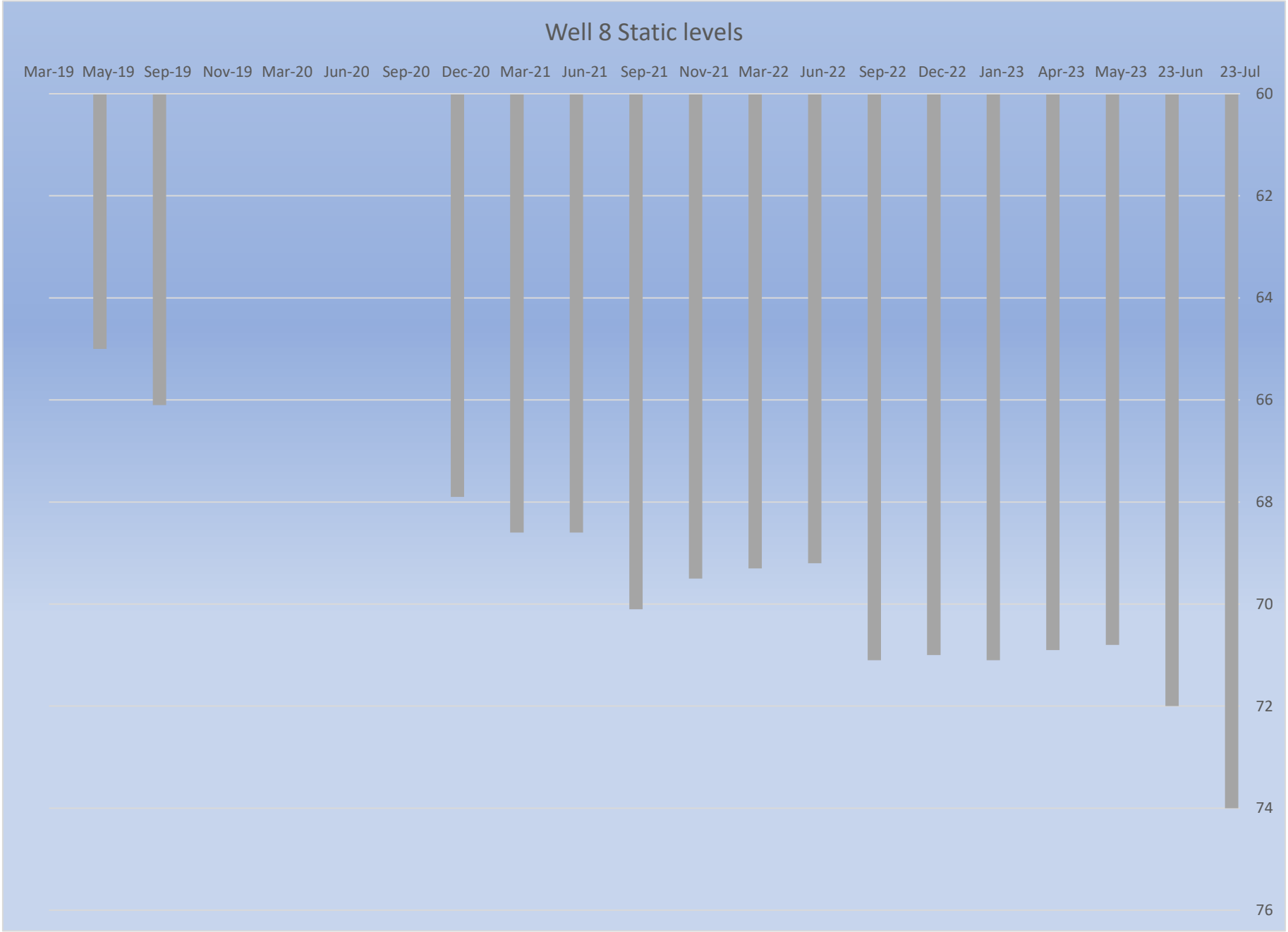
25


Well 6 Static levels
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Apr-23
May-23
23-Jun
23-Jul
68
70
72
74
76
78
80
82


Well 8 Static levels
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
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Nov-21
Mar-22
Jun-22
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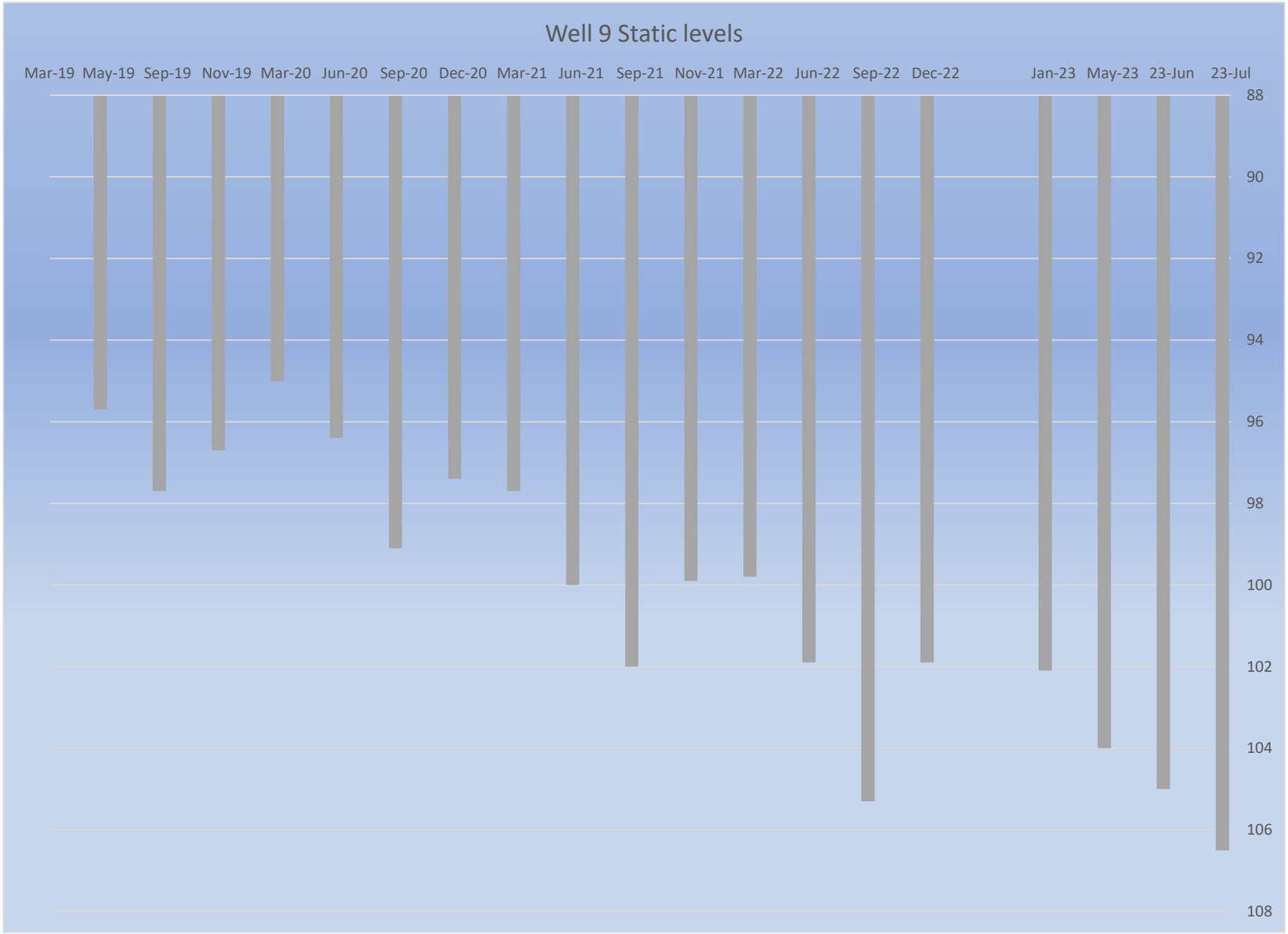
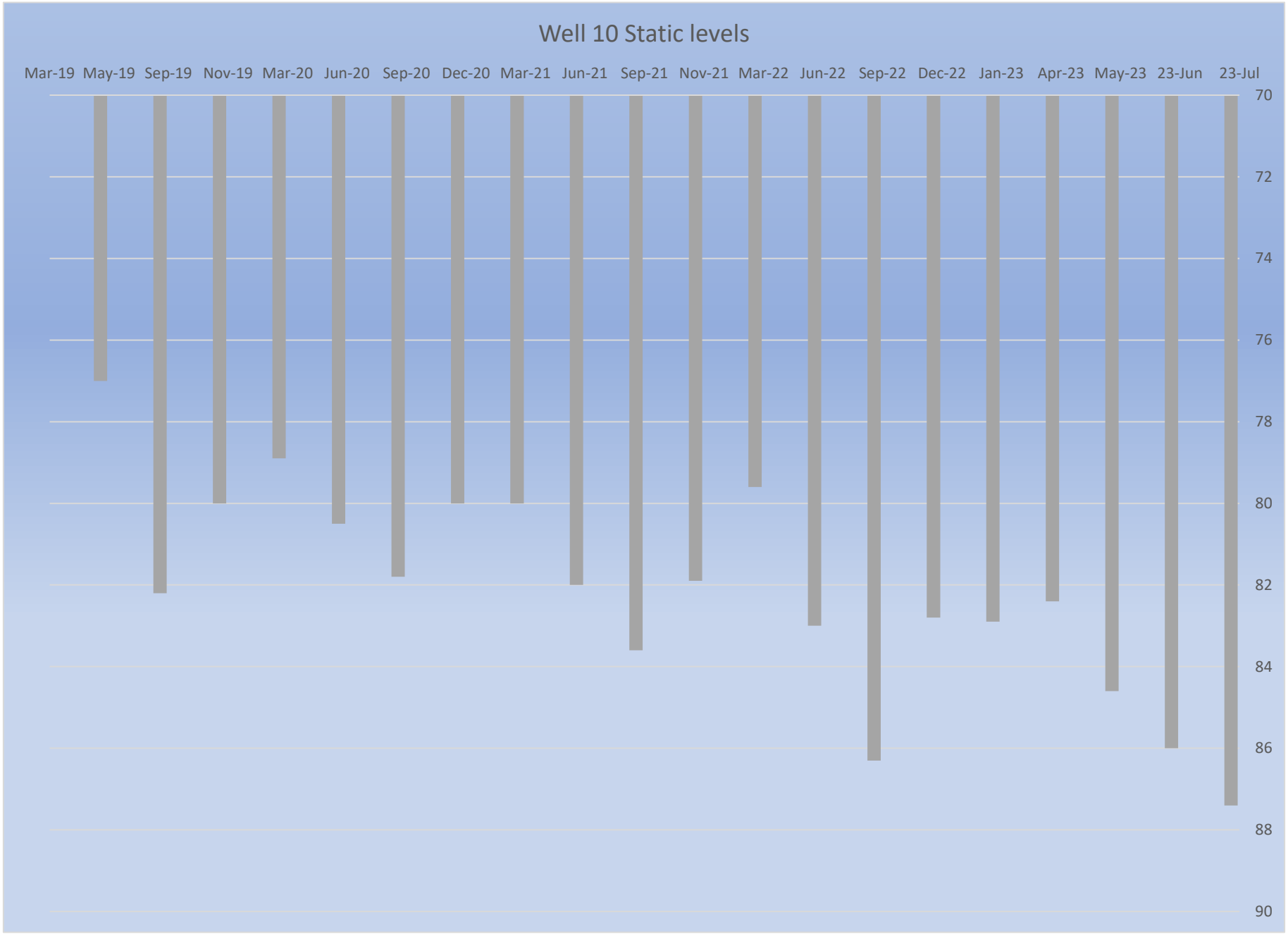
70
72
74
76


Well 9 Static levels
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
May-23
23-Jun
23-Jul
88
90
92
94
96
98
100
102
104
106
108


Well 10 Static levels
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Apr-23
May-23
23-Jun
23-Jul
70
72
74
76
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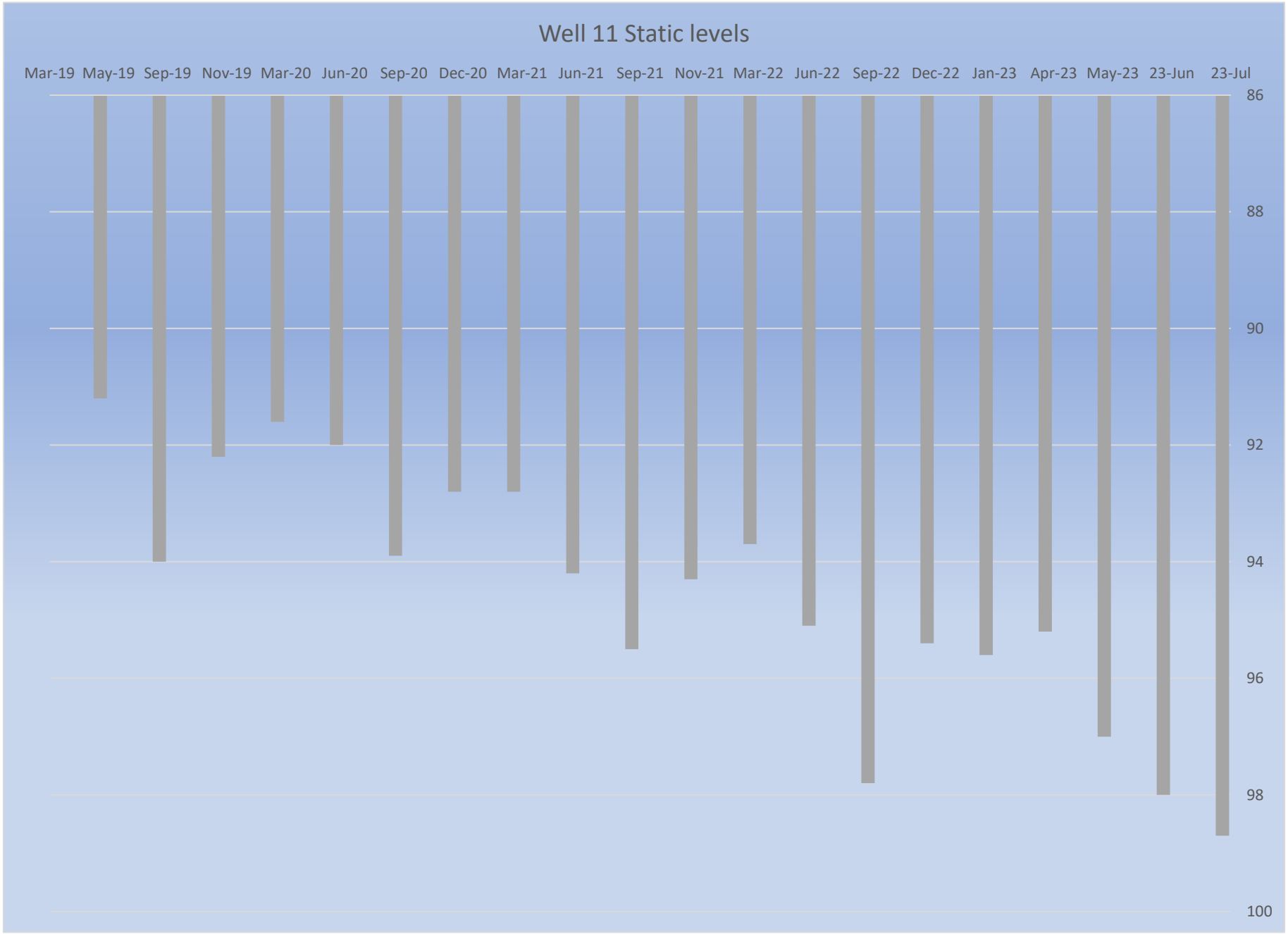
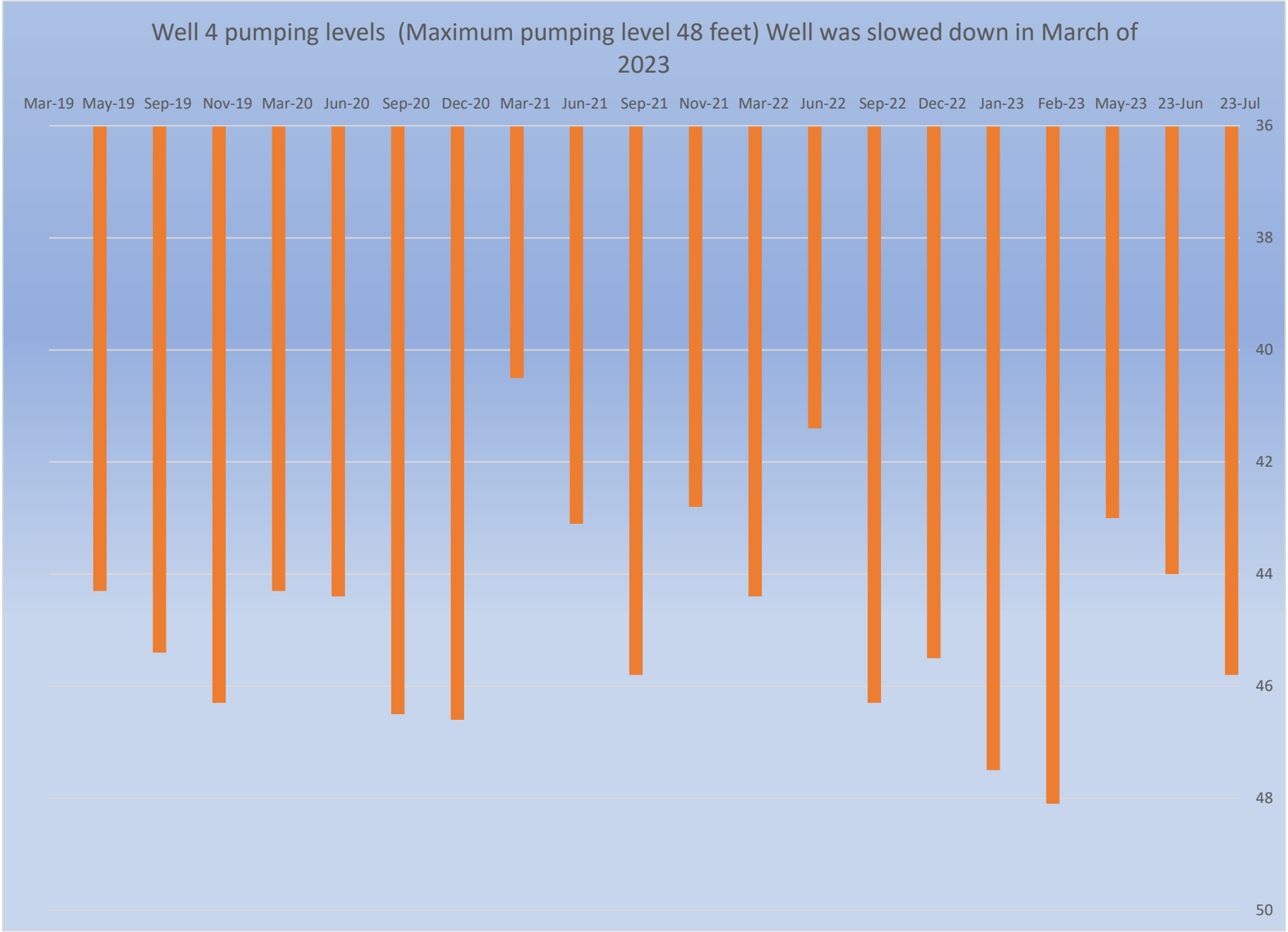
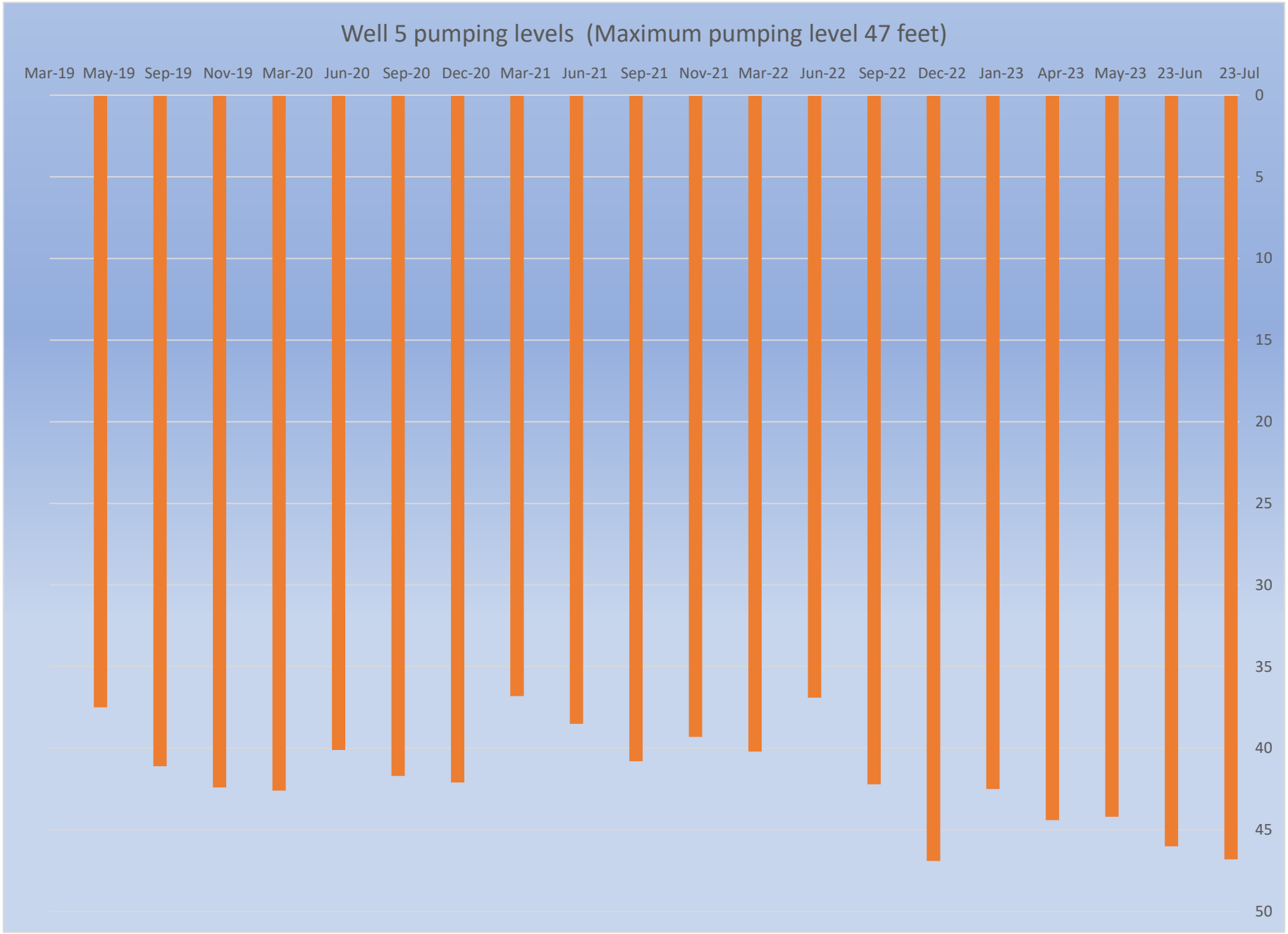
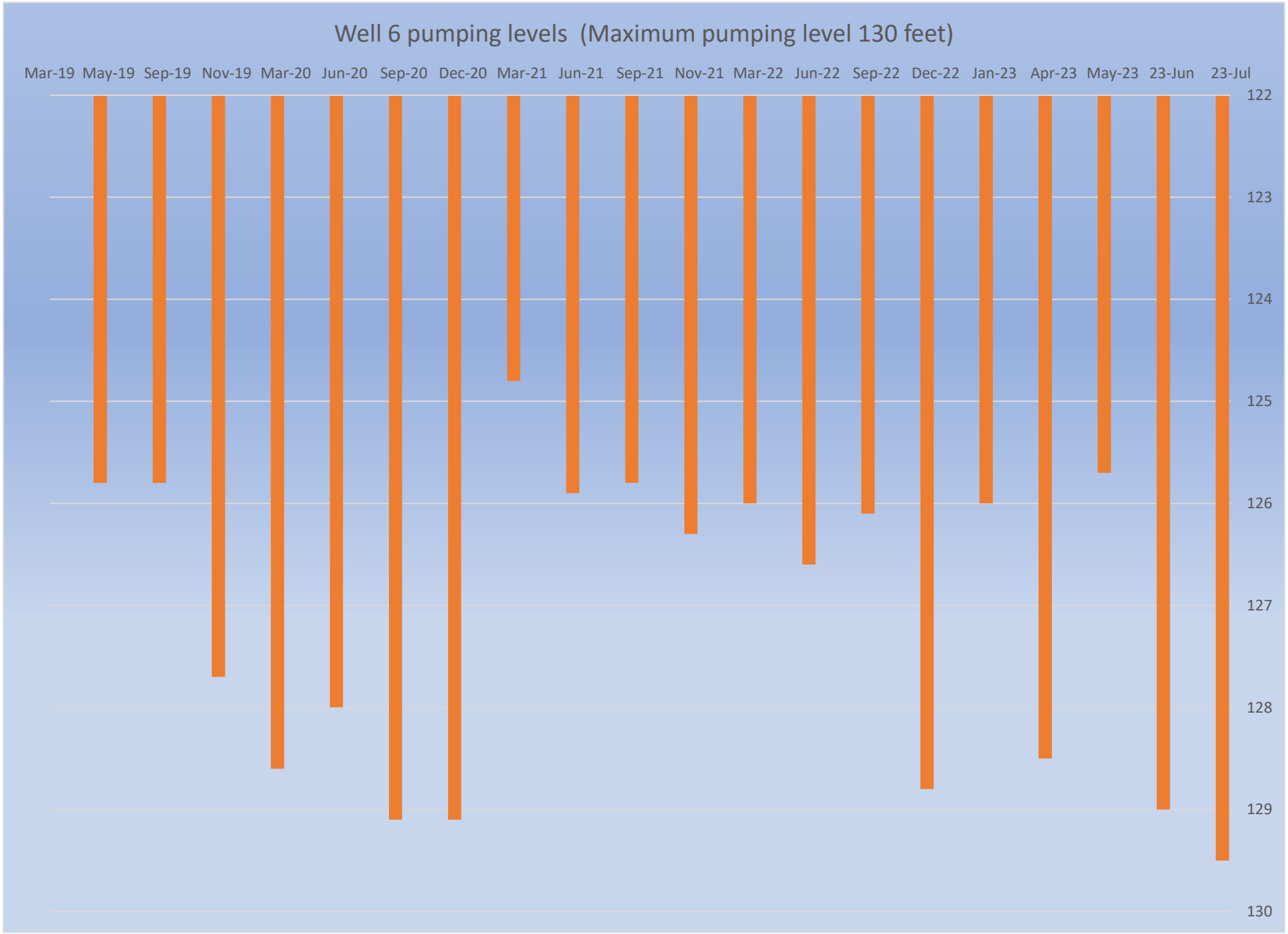
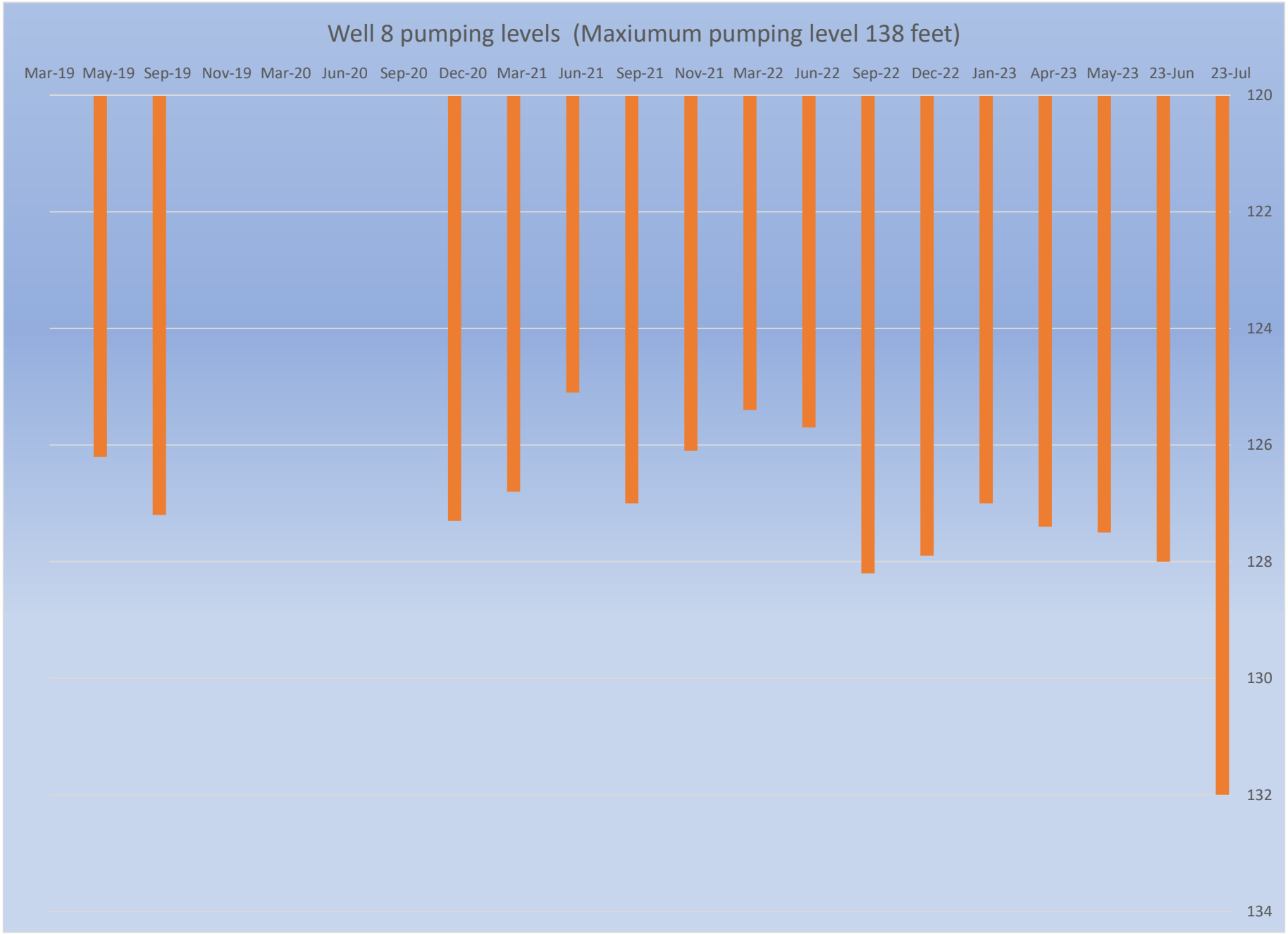
80
82
84
86
88
90

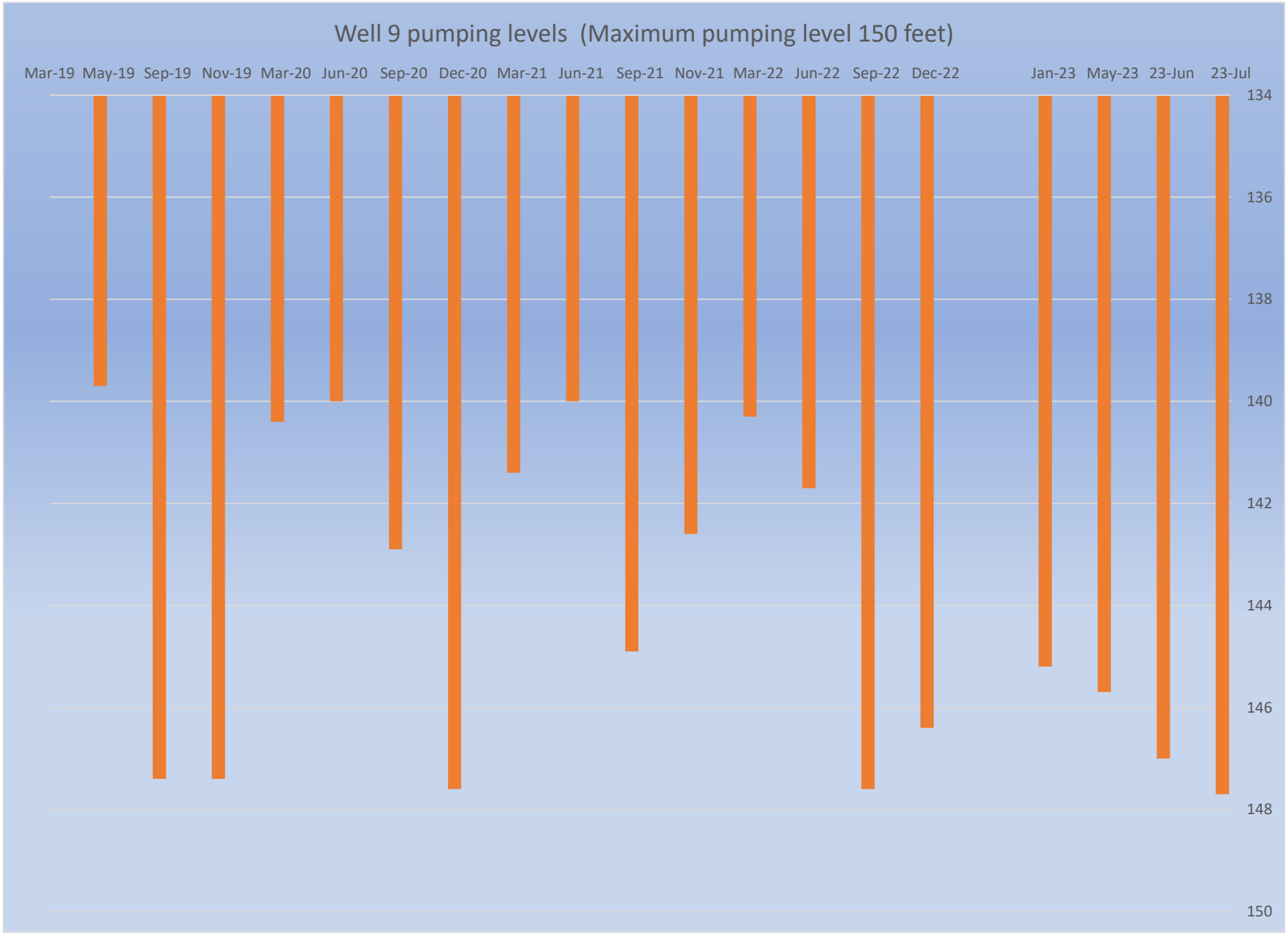

Well 11 Static levels
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Apr-23
May-23
23-Jun
23-Jul
86
88
90
92
94
96
98
100

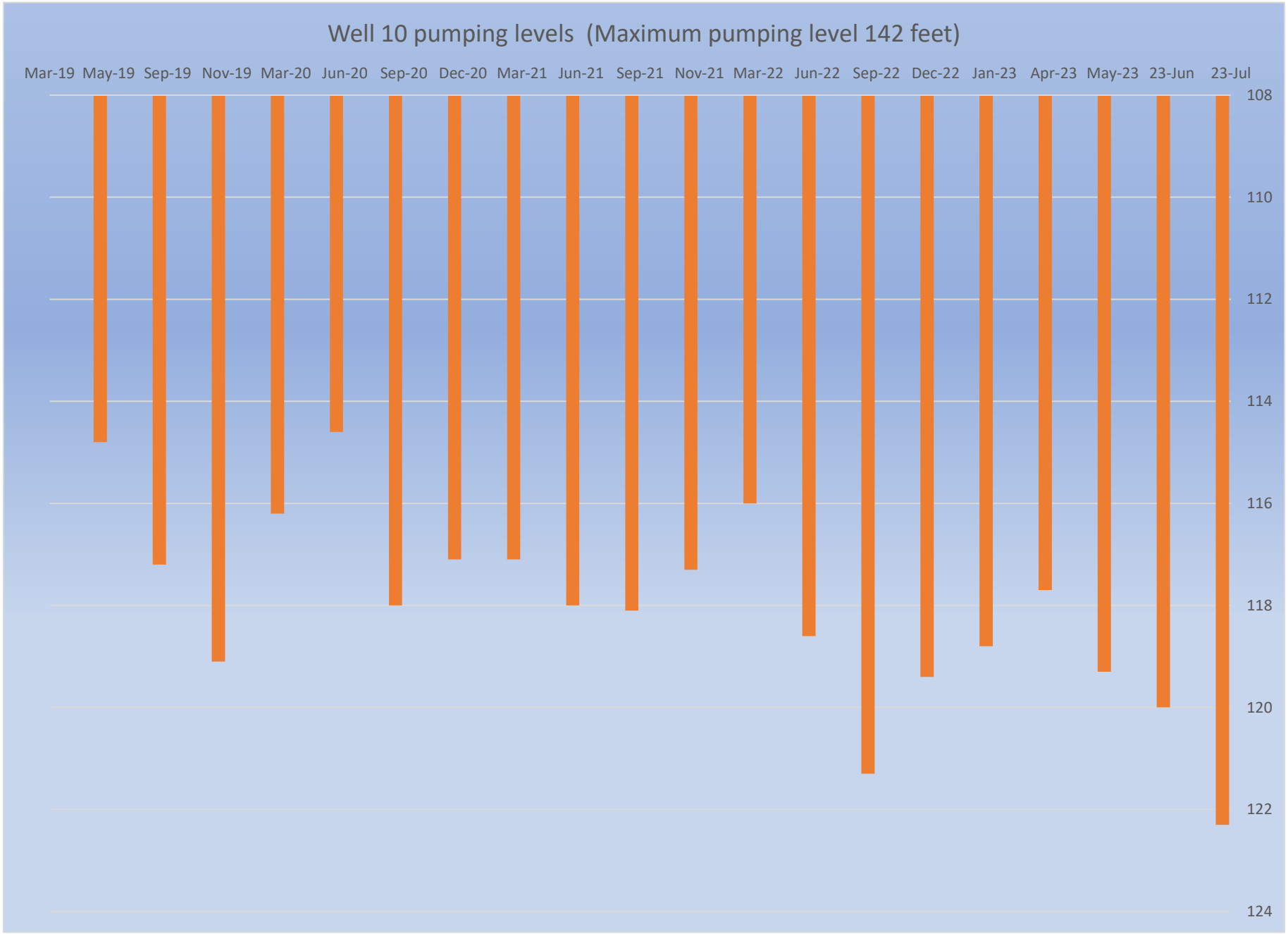

Well 4 pumping levels (Maximum pumping level 48 feet) Well was slowed down in March of 2023
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Feb-23
May-23
23-Jun
23-Jul
36
38
40
42
44
46
48
50

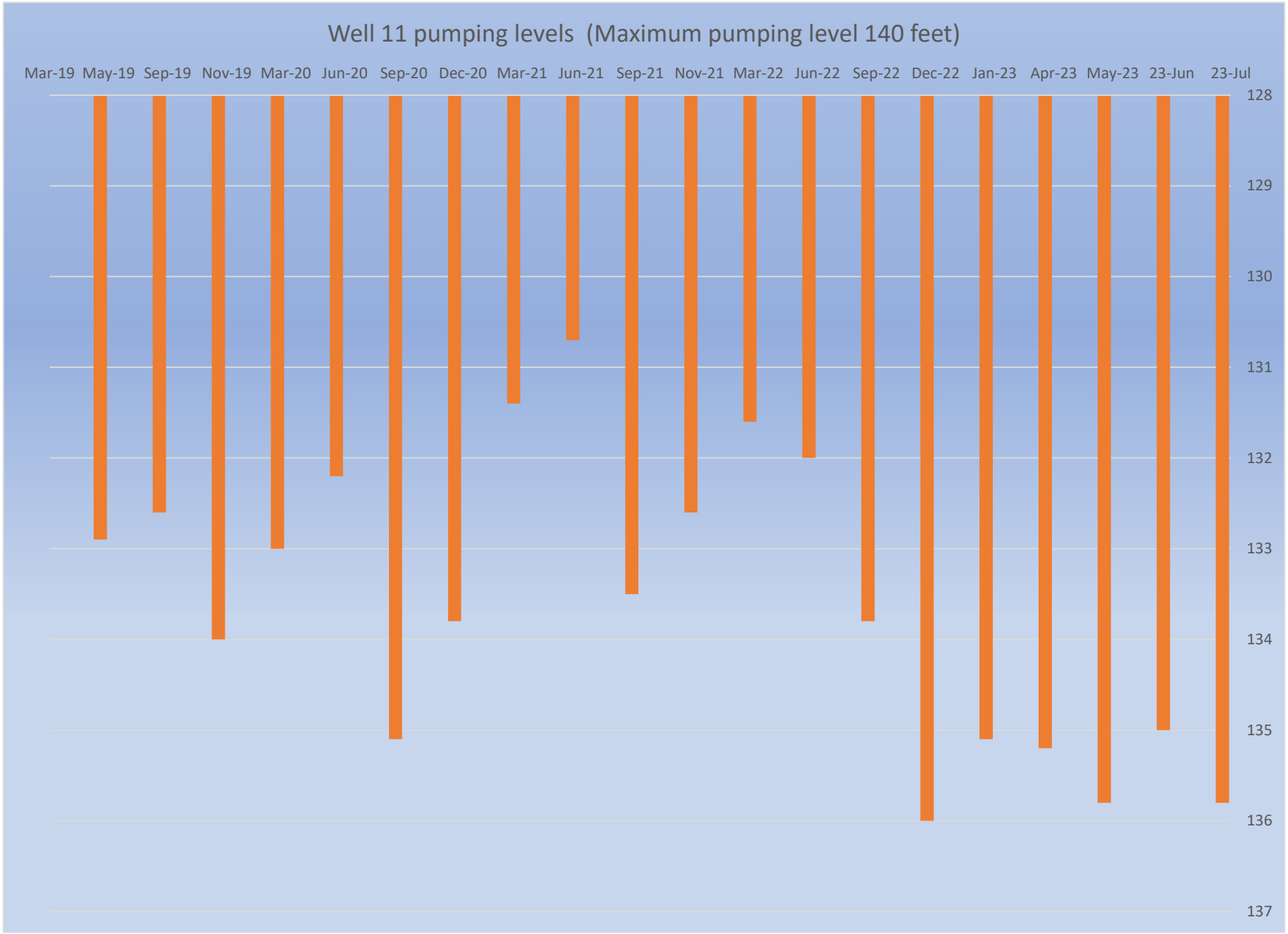

Well 5 pumping levels (Maximum pumping level 47 feet)
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Apr-23
May-23
23-Jun
23-Jul
0
5
10
15
20
25
30
35
40
45
50


Well 6 pumping levels (Maximum pumping level 130 feet)
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Apr-23
May-23
23-Jun
23-Jul
122
123
124
125
126
127
128
129
130


Well 8 pumping levels (Maxiumum pumping level 138 feet)
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Apr-23
May-23
23-Jun
23-Jul
120
122
124
126
128
130
132
134


Well 9 pumping levels (Maximum pumping level 150 feet)
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
May-23
23-Jun
23-Jul
134
136
138
140
142
144
146
148
150


Well 10 pumping levels (Maximum pumping level 142 feet)
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Apr-23
May-23
23-Jun
23-Jul
108
110
112
114
116
118
120
122
124


Well 11 pumping levels (Maximum pumping level 140 feet)
Mar-19
May-19
Sep-19
Nov-19
Mar-20
Jun-20
Sep-20
Dec-20
Mar-21
Jun-21
Sep-21
Nov-21
Mar-22
Jun-22
Sep-22
Dec-22
Jan-23
Apr-23
May-23
23-Jun
23-Jul
128
129
130
131
132
133
134
135
136
137

June 2023 well production
Total gallons

	Total Gallons Per Day
May 31	1,516,452
1	965,107
2	1,019,780
3	1,071,399
4	1,199,295
5	1,047,527
6	1,158,978
7	1,246,400
8	1,264,894
9	1,156,600
10	838,474
11	705,800
12	940,699
13	1,166,200
14	1,199,563
15	1,273,000
16	1,091,434
17	812,300
18	1,039,338
19	1,234,400
20	1,601,813
21	1,263,300
22	1,397,802
23	1,337,800
24	933,601
25	1,143,400
26	1,253,869

All wells monthly total	**13,419,149**	**11,869,247**	**13,707,698**	**16,170,497**	**20,398,872**	**23,510,356**	**31,193,612**	**33,979,688**	**27,640,596**	**22,549,514**	**13,194,642**	**12,578,943**
2022	January	February	March	April	May	June	July	August	September	October	November	December
Daily average	432,876	423,902	442,184	539,017	658,028	783,679	1,006,246	1,096,119	921,353	727,404	439,821	405,772
TOTAL GALLONS PUMPED												
ALL WELLS COMBINED FOR THE YEAR 2022												
240,212,814												

All wells monthly total	**12,849,314**	**11,939,898**	**13,268,481**	**18,093,805**	**30,387,370**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2023	January	February	March	April	May	June	July	August	September	October	November	December
Daily average	414,494	426,425	428,016	603,127	980,238	0	0	0	0	0	0	0
TOTAL GALLONS PUMPED												
ALL WELLS COMBINED FOR THE YEAR 2023												
86,538,868												