New Hampshire Groundwater Level Monitoring
January 2023

NEW HAMPSHIRE GROUNDWATER CONDITIONS SUMMARY

Temperature and Precipitation. New Hampshire's monthly precipitation varied across the State and was generally above normal[1], and New Hampshire's monthly average temperature was well above normal for January 2023. The January 2023 average departure from normal temperature ranged from +8°F to +10°F in southern New Hampshire to greater than +10°F in northern New Hampshire, according to the ACIS Climate Maps provided by the High Plains Regional Climate Center (HPCC). The much above normal temperature departure recorded in New Hampshire in January 2023 continued the warm trend of monthly average temperature observed from October through December of 2022. The State-wide mean precipitation for the month of January 2023 was 121% of normal, according to the Quantitative Precipitation Estimates (QPE) provided by the National Weather Service Advanced Hydrologic Prediction Service (AHPS). Most of New Hampshire received between 75% and 200% of normal precipitation amounts in January 2023. The exceptions were northern Sullivan and southern Grafton Counties in western New Hampshire, and northern Coos County, which both received 50% to 75% of normal precipitation. Percent of normal January precipitation State-wide in New Hampshire reported by QPE from AHPS ranged from a low of 41% of normal precipitation in northern New Hampshire to a high of 228% of normal in the Lakes region, with a state-wide mean ± std. dev. percent normal monthly precipitation of 121% ± 40. Figure 1 shows the distribution of January 2023 percent of normal monthly precipitation received across New Hampshire as reported by the QPE from AHPS. Average snow depth in New Hampshire at the end of January 2023 ranged from 0 to 2 inches near the Atlantic coast to greater than 40 inches of snow depth in the White Mountains region, according to the National Snow Analyses from the National Weather Service National Operational Hydrologic Remote Sensing Center. The modelled snow depth at the end of January 2023 is near or above normal in much of the White Mountains region and in the higher terrain in western New Hampshire, but is below normal in most of southern New Hampshire and portions of Coos County.

Drought. According to the U.S. Drought Monitor map for New Hampshire released on February 2, 2023, no part of the State of New Hampshire is currently designated as Abnormally Dry (D0) or greater conditions according to the most recent USDM map. The Abnormally Dry (D0) conditions that were present in 34% of New Hampshire in late December 2022 were upgraded in mid-January 2023. Figure 2 shows the locations and intensity of current classified drought conditions in New Hampshire.

Groundwater Levels. Figures 1 and 2 show the monthly status of the most recent groundwater levels recorded for both bedrock and overburden wells in the New Hampshire Geological Survey's Groundwater Level Monitoring Network (GWLMN). The GWLMN currently includes 11 bedrock and 22 overburden observation wells, all of which are measured monthly by hand near the end of each month. Hourly data loggers are currently installed in 23 of the 33 wells. Bedrock wells are installed into bedrock and overburden wells are installed in the unconsolidated materials above bedrock. Using all monthly hand measurements and daily median levels from the data loggers (if installed), monthly median groundwater levels are calculated. The monthly medians are then used to calculate monthly statistics for each monitoring well. Only wells with a period of record (POR) of 10 years or more for the current month are placed within statistical categories of: low, much below normal, below normal, normal, above normal, much above normal, and high (symbols bright red through dark blue, corresponding to: below lowest monthly median; <10th; 10th-25th; 25th-75th; 75th-90th; >90th Percentiles; and above highest monthly median, respectively).

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[1] Temperature and Precipitation departures are based on the most recent 30-year climate normal period, currently 1991 – 2020.

The status of the most recent groundwater level measurement for each well are summarized in Figures 1 and 2, and in Tables 1 and 2. The 12-month hydrographs of groundwater levels with statistical categories, a table reporting POR monthly statistics, and plots showing the prior 36-months of groundwater levels along with the "normal range" of the 25th to 75th percentile are shown for each well with POR > 10 years for the current month. The 12- and 36-month hydrographs in the figures also display either daily median levels calculated from the hourly logger data, if available, and/or the monthly hand measurement.

The most recent groundwater level measurements recorded between January 23 and 28, 2023 show the monthly status (percentile class) of the most recent groundwater levels vary across the State of New Hampshire from Low (below lowest monthly median) to High (above highest monthly median) levels, as indicated in Tables 1 and 2.

- Low (Below Lowest Monthly Median) groundwater level was recorded in 1 well: the overburden well in Lancaster
- Below Normal (10th to 25th Percentile) groundwater levels were recorded in 3 wells: the overburden well in Lisbon, the shallow overburden well in Newport, and the bedrock well in Northwood.
- Normal (25th to 75th Percentile) groundwater levels were recorded in 13 wells: both overburden wells in Albany and Concord, the overburden wells in Campton, Deerfield, Franklin, and Greenfield, the deep overburden well in Newport, the bedrock wells in Deerfield and Hooksett, and both bedrock wells in Rindge.
- Above Normal (75th to 90th Percentile) groundwater levels were recorded in 6 wells: the overburden wells in Epping, New Durham, and Ossipee, both bedrock wells in Concord, and the shallow bedrock well in East Kingston.
- Much Above Normal (> 90th Percentile) groundwater levels were recorded in 2 wells: the overburden well in New London and the shallow bedrock well in Stewartstown.
- High (Above Highest Monthly Median) groundwater level was recorded in 1 well: the deep bedrock well in East Kingston.
- For the 1 well with POR less than 10 years and greater than 1 year for January, the most recent measurement in the overburden well in Barrington (BBW-53) is much above the median level for January.

REFERENCES:

- High Plains Regional Climate Center, 2023: ACIS Climate Maps. Accessed February 2, 2023, https://hprcc.unl.edu/maps.php?maps=ACISClimateMaps#

- National Weather Service, 2023: Advanced Hydrologic Prediction Service, Quantitative Precipitation Estimates. Accessed February 2, 2023, https://water.weather.gov/precip/download.php

- National Weather Service, 2023: National Operational Hydrologic Remote Sensing Center, National Snow Analyses . Accessed February 2, 2023, https://www.nohrsc.noaa.gov/nsa/index.html?region=Northeast&year=2023&month=1&day=31&units=e

- National Drought Mitigation Center, 2023: U.S. Drought Monitor Map for New Hampshire. Accessed February 2, 2023, https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?NH

NOTES:

For further information of the New Hampshire Geological Survey's groundwater level monitoring network, please visit the NHGS information page at the USGS National Ground-Water Monitoring Network Portal or Groundwater - NH DES.

NHGS maintains a Web App for viewing groundwater data from the NH Groundwater Level Monitoring Network. The Web App is available through the NHDES Geodata Portal at https://nhdes.maps.arcgis.com or directly at https://nhdes.maps.arcgis.com/apps/webappviewer/index.html?id=521022e32a1540c2b281a071aa5421b7

The 12-month hydrographs, monthly statistics tables, and 3-year hydrographs were created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) provided by USGS. The HASP open-source code is available at the USGS-R/HASP page on Github. For more information about the statistical methods used to calculate percentiles, POR determinations, and other algorithm design decisions, see the NGWMN Statistics Methods page. NHGS has attempted to conform to the statistical methods specified by the NGWMN whenever possible.

The historic groundwater level record from CVW-02 measured between 1966 and December of 2017 is now being associated with the nearby replacement well CVW-02R. CVW-02R was installed in January 2017 outside the secure perimeter of Concord Airport due to security concerns. A Pearson correlation coefficient of r = 0.986 was calculated for the n = 11 overlapping monthly measurements, indicating a strong linear correlation between groundwater depth measured in the two wells. The mean offset between paired monthly measurements was determined to be less than 0.1 foot between the two sites.

NHGS completed installation in early October 2022 of 3 replacement wells for existing groundwater monitoring wells that were either damaged or incompatible with data logger installation. The new wells, which are located in Concord, Franklin, and Colebrook and designated as CVW-04R, FKW-01R, and CTW-73R, have been added to the NH-GWLMN.

If you are interested in receiving the monthly New Hampshire Groundwater Level Monitoring report by email, please contact Michael.W.Howley@des.nh.gov to be added to the email distribution list.

Figure 1. Groundwater Monitoring Network map showing most recent groundwater levels relative to statistical envelopes calculated over each well's period of record (POR) and percent normal precipitation map for January 2023 (National Weather Service – Advanced Hydrologic Prediction Service).

Figure 2. Groundwater Monitoring Network map showing most recent groundwater levels relative to statistical envelopes calculated over each well's period of record (POR) and drought areas according to data released by the U.S. Drought Monitor on February 2, 2023.

Table 1. Summary of most recent groundwater levels and status sorted by well type.

Well	Town	Well type	Well Depth (ft)	Screened or Open Interval (ft)	Period of Record (years)	Most Recent Measurement			Prior Month Status	Percentile Class Change from Prior Month
						Depth to Water (ft)	Measurement Date	Status on Measurement Date		
ADW-14	Albany	Deep Overburden	79.5	77.5-79.5	28	5.61	2023-01-24	Normal	*Much Above Normal*	-2
ADW-15	Albany	Shallow Overburden	18.0	13.5-15.5	28	7.6	2023-01-24	Normal	*Much Above Normal*	-2
BBW-53	Barrington	Overburden	23.0	21-23	6	2.66	2023-01-27	Not Analyzed	*Not Analyzed*	
CBW-34	Campton	Overburden	107.0	104.6-106.6	29	12.29	2023-01-24	Normal	*Above Normal*	-1
CTW-73	Colebrook	Overburden	27.0	24-27	25	6.85	2022-11-30	Not Measured	*Not Measured*	
CTW-73R	Colebrook	Overburden	40.0	30-40	1	20.3	2023-01-23	Not Analyzed	*Not Analyzed*	
CVW-02R	Concord	Overburden	60.0	56-60	57	41.93	2023-01-25	Normal	*Normal*	
CVW-04	Concord	Overburden	40.7	39.5-41	57	17.18	2023-01-25	Normal	*Normal*	
CVW-04R	Concord	Overburden	35.0	25-35	1	4.03	2023-01-25	Not Analyzed	*Not Analyzed*	
DDW-46	Deerfield	Overburden	47.5	45.5-47.5	30	38.78	2023-01-26	Normal	*Normal*	
EPW-90	Epping	Overburden	37.8	35.8-37.8	17	26.91	2023-01-26	Above Normal	*Normal*	+1
FKW-01	Franklin	Overburden	52.3	49.3-52.3	54	13.47	2023-01-24	Normal	*Normal*	
FKW-01R	Franklin	Overburden	38.0	28-38	1	13.74	2023-01-24	Not Analyzed	*Not Analyzed*	
GSW-75	Greenfield	Overburden	68.0	66-68	27	62.66	2023-01-28	Normal	*Below Normal*	+1
LCW-1	Lancaster	Overburden	30.0	28-30	45	2.81	2023-01-25	Low	*Below Normal*	-2
LLW-19	Lisbon	Overburden	42.0	39.5-42	29	13.75	2023-01-24	Below Normal	*Normal*	-1
NAW-218	Nashua	Overburden	42.5	40.5-42.5	55	27.18	2022-12-27	Not Measured	*Above Normal*	
NFW-53	New Durham	Overburden	60.0	58-60	28	18.7	2023-01-24	Above Normal	*High*	-2
NLW-01	New London	Overburden	21.0	0-21	73	5.71	2023-01-27	Much Above Normal	*Much Above Normal*	
NPW-03	Newport	Deep Overburden	56.4	54-57	28	6.37	2023-01-27	Normal	*Normal*	
NPW-06	Newport	Shallow Overburden	19.3	17-19	28	6.93	2023-01-27	Below Normal	*Normal*	-1
OXW-38	Ossipee	Overburden	114.7	112.7-114.7	27	35.03	2023-01-24	Above Normal	*Normal*	+1
CVWB-01	Concord	Deep Bedrock	480.0	470-480	14	19.11	2023-01-25	Above Normal	*Above Normal*	
CVWB-02	Concord	Shallow Bedrock	315.0	20-315	14	12.92	2023-01-25	Above Normal	*High*	-2
DDWB-01	Deerfield	Bedrock	300.0	20-300	14	17.79	2023-01-26	Normal	*Normal*	
EAWB-01	East Kingston	Deep Bedrock	473.0	463-473	14	21.84	2023-01-27	High	*Normal*	+3
EAWB-02	East Kingston	Shallow Bedrock	323.0	70-323	14	20.61	2023-01-27	Above Normal	*Normal*	+1
HTW-05	Hooksett	Bedrock	102.7	44-103	55	47.24	2023-01-25	Normal	*Normal*	
NWWB-01	Northwood	Bedrock	167.0	?-167	13	4.43	2023-01-27	Below Normal	*Below Normal*	
RGWB-01	Rindge	Deep Bedrock	401.0	391-401	14	13.87	2023-01-28	Normal	*Normal*	
RGWB-02	Rindge	Shallow Bedrock	285.0	120-285	14	16.57	2023-01-28	Normal	*Normal*	
SOWB-01	Stewartstown	Deep Bedrock	453.0	443-453	14	13.85	2023-01-23	Not Analyzed	*Not Analyzed*	
SOWB-02	Stewartstown	Shallow Bedrock	303.0	20-303	14	17.6	2023-01-23	Much Above Normal	*Normal*	+2

Explanation

Percentile Class	Above Highest Monthly Median	>90	75-90	25-75	10-25	<10	Below Lowest Monthly Median
Status	High	Much Above Normal	Above Normal	Normal	Below Normal	Much Below Normal	Low

Table 2. Most recent well groundwater percentile class count compared to prior month and percentile class changes by moniotoring site.

Percentile Class	Status	Current Month Count: Late January 2023	Prior Month Count: Late December 2022	Monthly Class Change
Above highest monthly median	High	1	2	-1
>90	Much Above Normal	2	3	-1
75 – 90	Above Normal	6	3	+3
25 – 50	Normal	13	16	-3
10 – 25	Below Normal	3	3	-
<10	Much Below Normal	0	0	-
Below lowest monthly median	Low	1	0	+1
<10yr Period of Record, Not Analyzed or Not Measured		7	6	+1

January 2023 Site Percentile Class Deteriorations	6
January 2023 Site Percentile Class Improvements	5

ADW-14: Albany, NH Overburden Well, Deep Couplet Member
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

● Monthly Median   ▲ Data Point

| <10, Much Below Normal | 10 - 25, Below Normal | 25 - 75, Normal | 75 - 90, Above Normal | >90, Much Above Normal |

Plot created: 2023-01-30
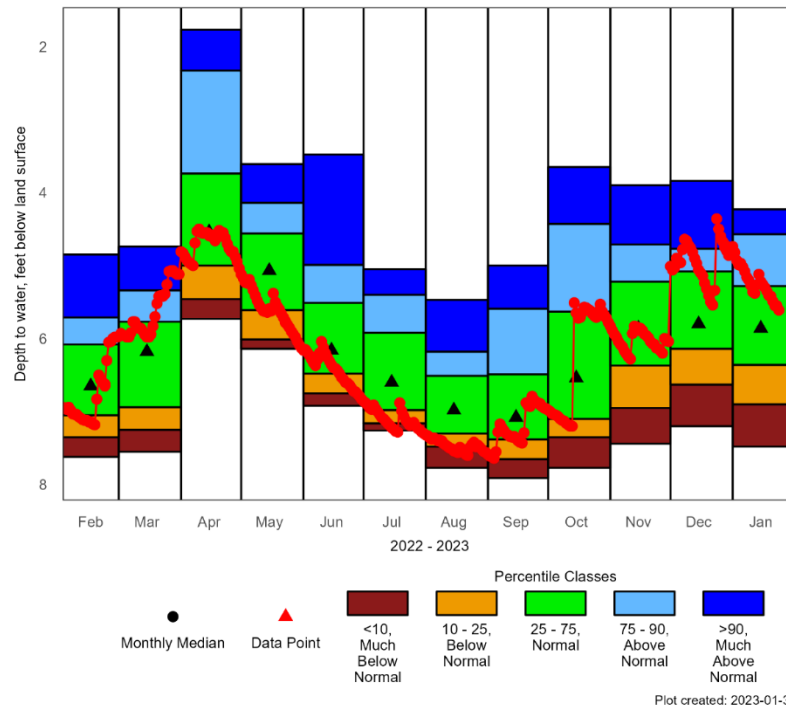
Period of Record Monthly Statistics for ADW-14
Depth to water, feet below land surface
Most recent depth to water in ADW-14: 5.61 feet on 2023-01-24

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	7.48	6.90	6.36	5.86	5.28	4.57	4.23	28
Feb	7.62	7.35	7.05	6.65	6.08	5.71	4.85	27
Mar	7.55	7.25	6.94	6.18	5.77	5.34	4.74	26
Apr	5.73	5.46	5.00	4.54	3.74	2.33	1.77	28
May	6.14	6.01	5.61	5.07	4.56	4.14	3.61	27
Jun	6.92	6.75	6.48	6.16	5.51	4.99	3.48	27
Jul	7.26	7.16	6.98	6.60	5.92	5.40	5.05	27
Aug	7.77	7.48	7.30	6.98	6.51	6.18	5.47	28
Sep	7.91	7.65	7.38	7.08	6.49	5.59	5.00	28
Oct	7.77	7.35	7.10	6.54	5.63	4.43	3.65	27
Nov	7.44	6.95	6.37	5.86	5.22	4.71	3.90	28
Dec	7.20	6.63	6.14	5.80	5.08	4.77	3.84	28

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

ADW-14: Albany, NH Overburden Well, Deep Couplet Member
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

● Data Point
▲ Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

ADW-15: Albany, NH Overburden Well, Shallow Couplet Member
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

● Monthly Median   ▲ Data Point

- <10, Much Below Normal
- 10 - 25, Below Normal
- 25 - 75, Normal
- 75 - 90, Above Normal
- >90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for ADW-15
Depth to water, feet below land surface
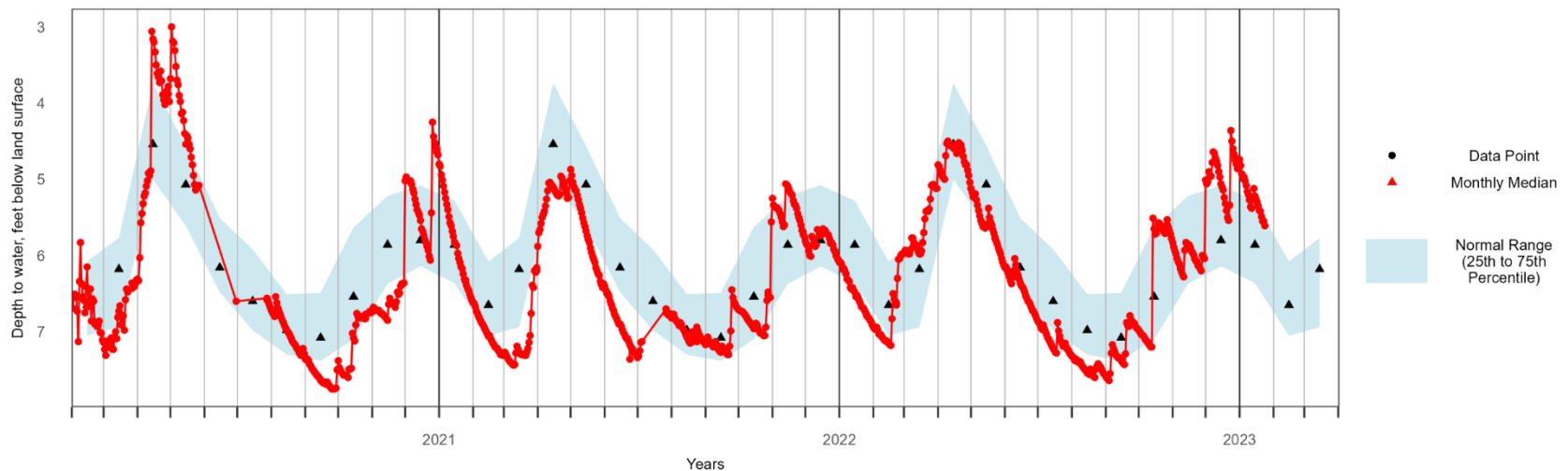Most recent depth to water in ADW-15: 7.6 feet on 2023-01-24

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	9.25	8.88	8.31	7.84	7.17	5.88	5.80	28
Feb	9.40	9.16	8.94	8.22	7.85	7.69	6.35	27
Mar	9.28	9.15	8.50	8.17	7.63	6.99	6.01	26
Apr	7.73	7.66	6.80	5.99	4.78	3.41	2.04	28
May	8.22	7.92	7.51	6.89	5.88	4.37	3.86	27
Jun	9.00	8.79	8.44	8.18	7.29	6.69	3.72	27
Jul	9.15	9.06	8.93	8.50	7.93	7.24	7.04	27
Aug	9.55	9.31	9.15	8.80	8.39	7.81	6.29	29
Sep	9.68	9.47	9.21	9.02	8.54	7.03	6.50	28
Oct	9.46	9.24	8.90	8.50	7.31	6.02	4.42	27
Nov	9.21	8.90	8.34	7.86	7.06	6.15	4.93	28
Dec	9.02	8.49	8.10	7.82	6.79	6.38	4.60	27

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

ADW-15: Albany, NH Overburden Well, Shallow Couplet Member
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

● Data Point
▲ Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

BBW-53: Barrington, NH Overburden Well

Groundwater Levels for Prior 12 Months with Median and Range

New Hampshire Geological Survey

Depth to water, feet below land surface

2022 - 2023

● Data Point   ▲ Monthly Median
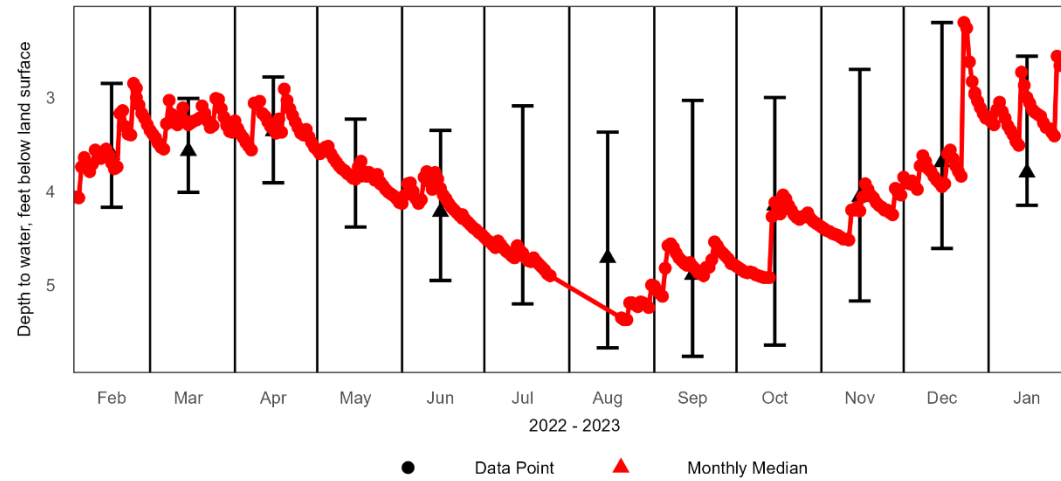
Plot created: 2023-01-30

CBW-34: Campton, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

Monthly Median | Data Point

| <10, Much Below Normal | 10 - 25, Below Normal | 25 - 75, Normal | 75 - 90, Above Normal | >90, Much Above Normal |

Plot created: 2023-01-30
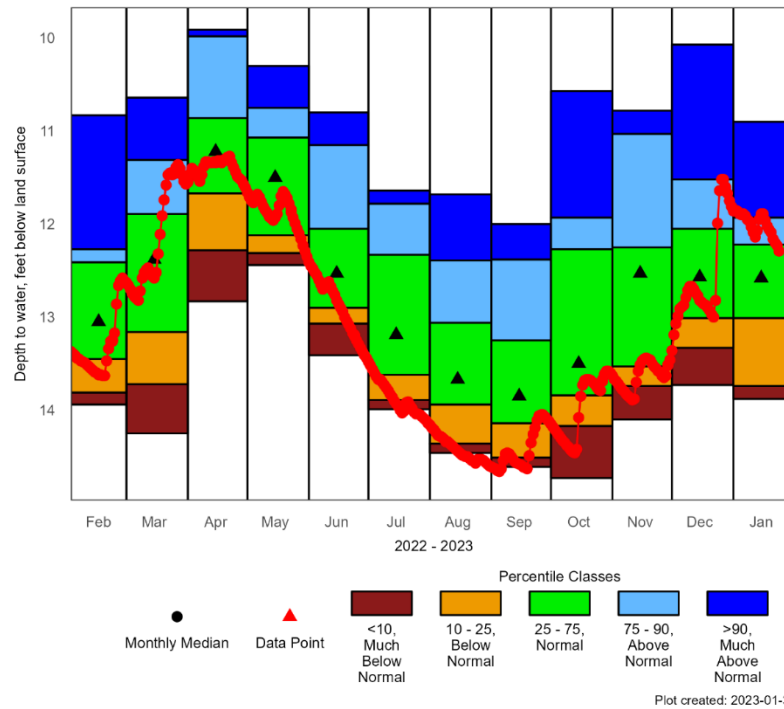
Period of Record Monthly Statistics for CBW-34
Depth to water, feet below land surface
Most recent depth to water in CBW-34: 12.29 feet on 2023-01-24

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	13.88	13.74	13.01	12.58	12.22	11.93	10.90	29
Feb	13.94	13.81	13.45	13.05	12.41	12.27	10.83	26
Mar	14.25	13.72	13.16	12.38	11.89	11.31	10.64	27
Apr	12.83	12.28	11.67	11.22	10.86	9.98	9.91	27
May	12.44	12.31	12.12	11.50	11.07	10.75	10.30	28
Jun	13.41	13.07	12.90	12.53	12.05	11.15	10.80	29
Jul	13.99	13.89	13.62	13.19	12.33	11.78	11.64	27
Aug	14.46	14.36	13.94	13.67	13.06	12.39	11.68	30
Sep	14.61	14.51	14.14	13.85	13.25	12.38	12.00	28
Oct	14.73	14.17	13.84	13.50	12.27	11.93	10.57	28
Nov	14.10	13.74	13.53	12.53	12.25	11.03	10.78	29
Dec	13.73	13.33	13.01	12.57	12.05	11.52	10.07	28

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS
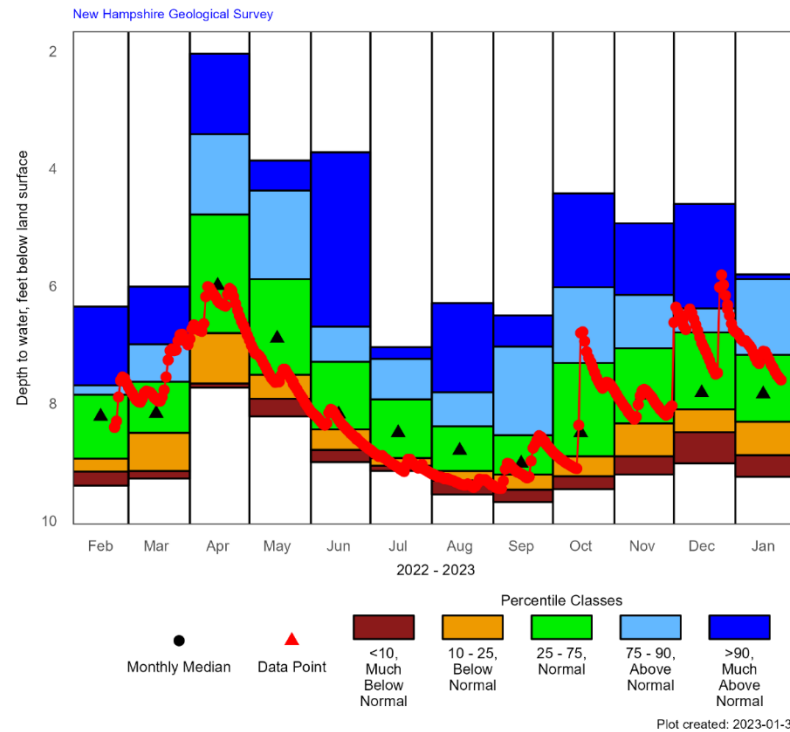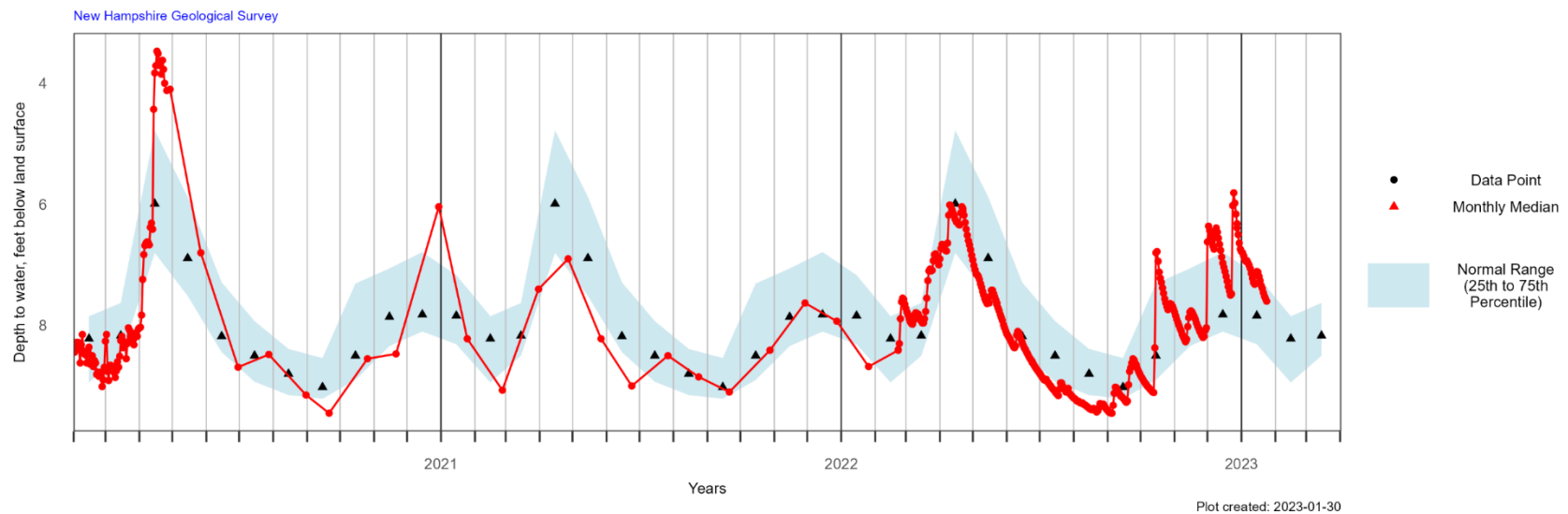
CBW-34: Campton, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Data Point

Monthly Median

Normal Range (25th to 75th Percentile)

Years

Plot created: 2023-01-30

CVW-02R: Concord, NH Overburden Well, Deep Couplet Member Replacement

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Percentile Classes

Monthly Median | Data Point | <10, Much Below Normal | 10 - 25, Below Normal | 25 - 75, Normal | 75 - 90, Above Normal | >90, Much Above Normal

Plot created: 2023-01-30
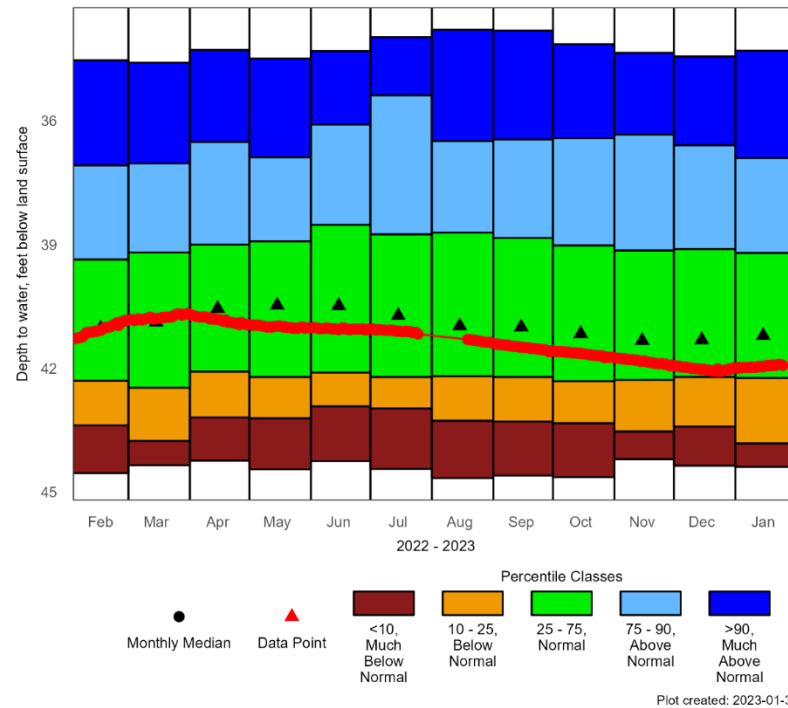
Period of Record Monthly Statistics for CVW-02R
Depth to water, feet below land surface
Most recent depth to water in CVW-02R: 41.93 feet on 2023-01-25

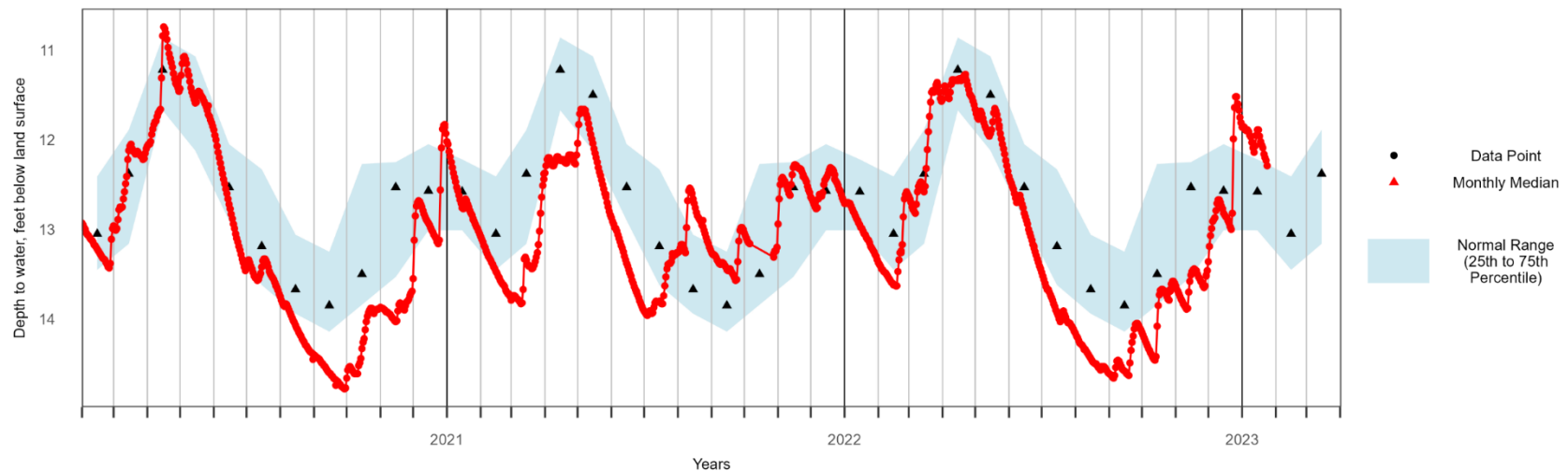| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	44.39	43.82	42.23	41.21	39.20	36.90	34.30	57
Feb	44.54	43.38	42.30	41.03	39.36	37.08	34.53	54
Mar	44.35	43.76	42.47	40.88	39.19	37.03	34.59	55
Apr	44.24	43.19	42.08	40.55	39.00	36.51	34.28	55
May	44.45	43.21	42.21	40.47	38.92	36.88	34.49	53
Jun	44.25	42.92	42.10	40.48	38.52	36.09	34.31	53
Jul	44.44	42.97	42.21	40.72	38.75	35.38	33.97	54
Aug	44.66	43.27	42.19	40.97	38.71	36.49	33.79	57
Sep	44.60	43.29	42.21	41.00	38.84	36.45	33.81	56
Oct	44.64	43.33	42.31	41.16	39.02	36.42	34.14	57
Nov	44.20	43.53	42.28	41.33	39.14	36.33	34.35	55
Dec	44.36	43.41	42.21	41.31	39.11	36.59	34.44	56

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

CVW-02R: Concord, NH Overburden Well, Deep Couplet Member Replacement

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

Data Point | Monthly Median | Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

CVW-04: Concord, NH Overburden Well, Shallow Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

2022 - 2023

Percentile Classes

● Monthly Median   ▲ Data Point

| <10, Much Below Normal | 10 - 25, Below Normal | 25 - 75, Normal | 75 - 90, Above Normal | >90, Much Above Normal |

Plot created: 2023-01-30

Period of Record Monthly Statistics for CVW-04
Depth to water, feet below land surface
Most recent depth to water in CVW-04: 17.18 feet on 2023-01-25

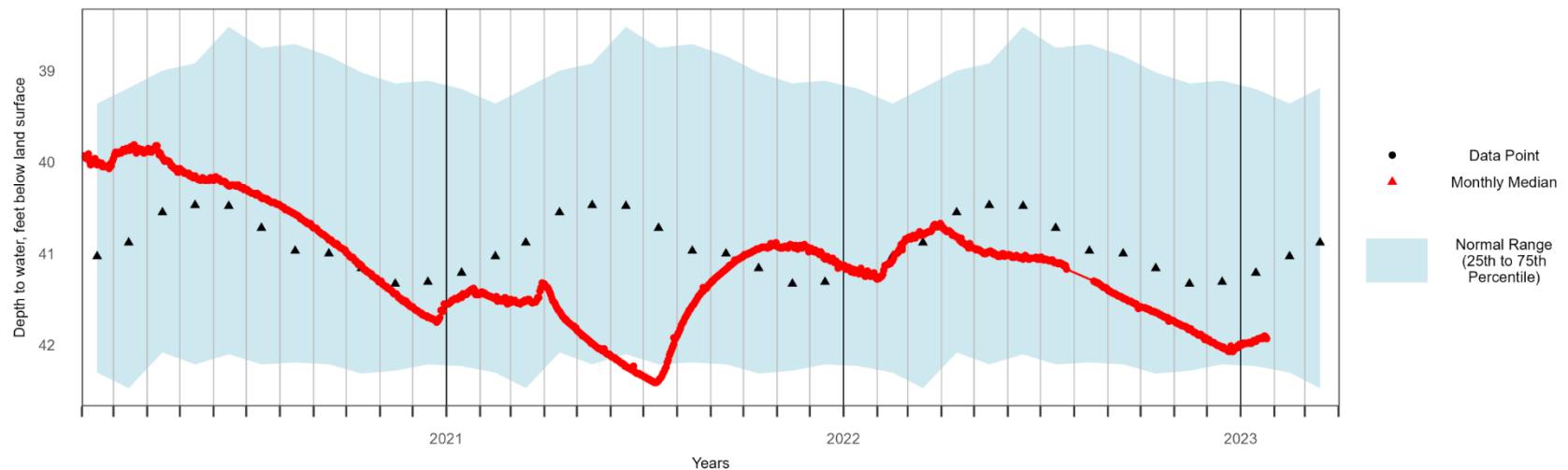| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	20.30	18.98	18.62	17.80	16.75	16.08	14.74	57
Feb	20.08	19.12	18.44	17.79	16.73	15.98	15.24	54
Mar	19.54	18.58	17.85	17.32	16.35	15.56	14.58	56
Apr	19.00	17.48	16.87	16.16	15.32	14.74	13.93	56
May	18.45	17.59	16.96	16.24	15.64	15.12	13.62	54
Jun	18.45	18.09	17.22	16.82	16.39	15.51	13.03	55
Jul	18.94	18.71	18.13	17.46	16.84	16.02	15.31	54
Aug	19.42	19.04	18.39	17.89	17.51	16.55	15.80	56
Sep	19.81	19.40	18.81	18.35	17.87	16.84	16.08	54
Oct	19.95	19.32	18.90	18.28	17.47	16.55	16.16	56
Nov	19.97	19.38	18.68	18.04	17.19	16.24	15.24	57
Dec	19.80	18.88	18.46	17.73	16.42	15.88	15.28	56

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

CVW-04: Concord, NH Overburden Well, Shallow Couplet Member
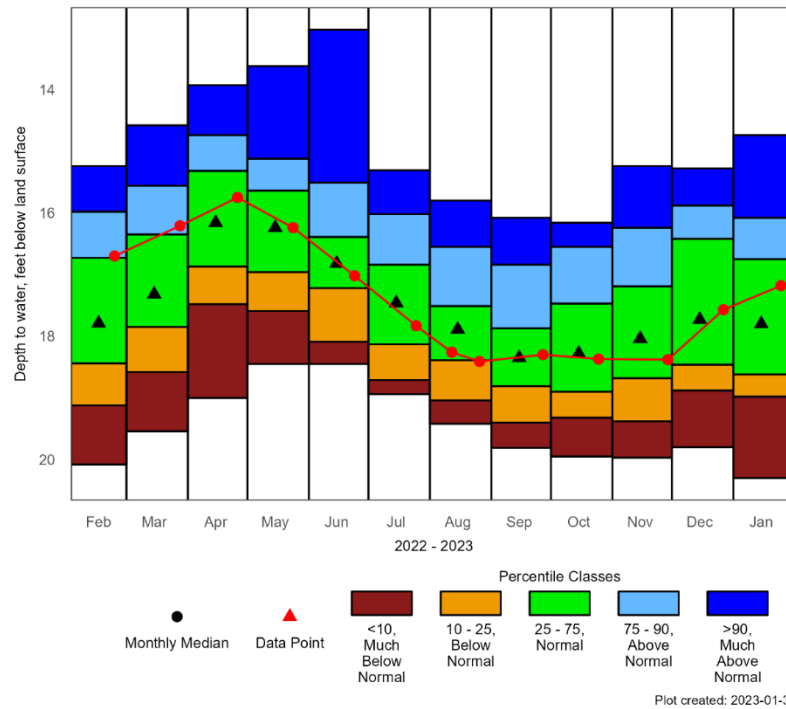
Groundwater Levels and Statistics for Past 3 Years

● Data Point

▲ Monthly Median

Normal Range (25th to 75th Percentile)

Years

Plot created: 2023-01-30

DDW-46: Deerfield, NH Overburden Well
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Percentile Classes

- ● Monthly Median
- ▲ Data Point
- <10, Much Below Normal
- 10 - 25, Below Normal
- 25 - 75, Normal
- 75 - 90, Above Normal
- >90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for DDW-46
Depth to water, feet below land surface
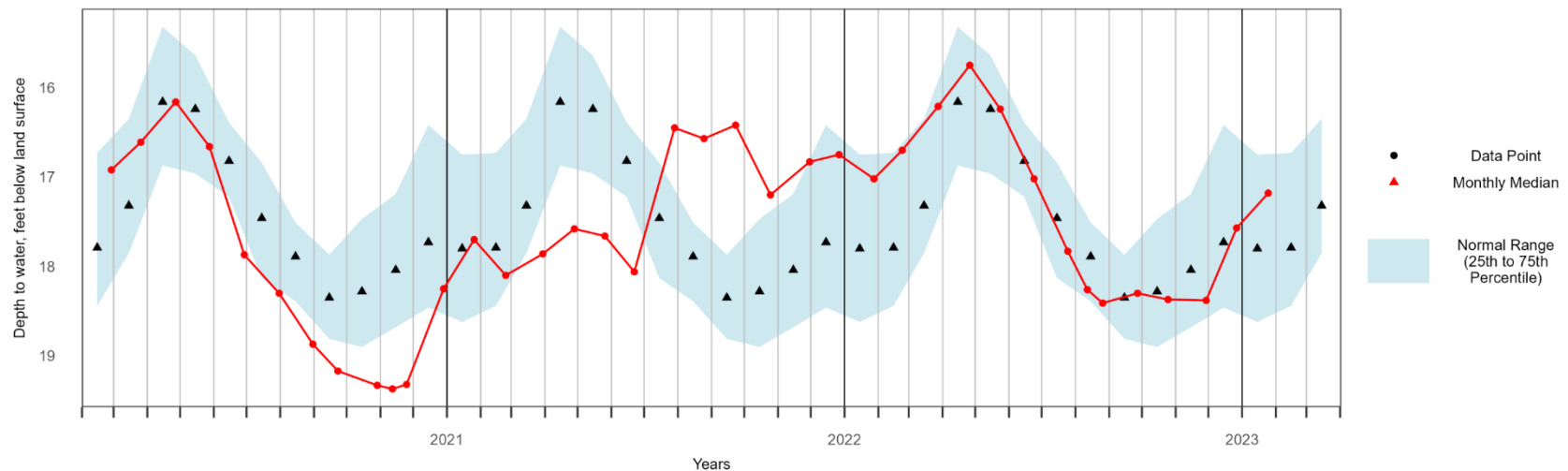Most recent depth to water in DDW-46: 38.78 feet on 2023-01-26

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	39.77	39.47	39.21	38.97	38.49	37.74	37.57	30
Feb	39.83	39.34	39.12	38.81	38.27	37.88	37.43	28
Mar	39.63	39.18	38.86	38.61	38.18	37.89	36.64	27
Apr	39.26	38.81	38.51	38.12	37.71	37.22	36.49	31
May	39.07	38.80	38.58	38.05	37.52	37.09	36.78	28
Jun	39.15	38.92	38.67	38.22	37.96	37.71	37.52	27
Jul	39.39	39.24	38.90	38.64	38.29	38.03	37.45	29
Aug	39.70	39.56	39.29	38.85	38.56	38.15	38.09	28
Sep	39.93	39.68	39.47	39.08	38.81	38.43	38.26	28
Oct	39.97	39.78	39.52	39.27	38.91	38.41	38.29	27
Nov	39.89	39.79	39.53	39.18	38.81	38.15	38.01	30
Dec	39.80	39.72	39.45	39.17	38.64	37.94	37.61	30

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
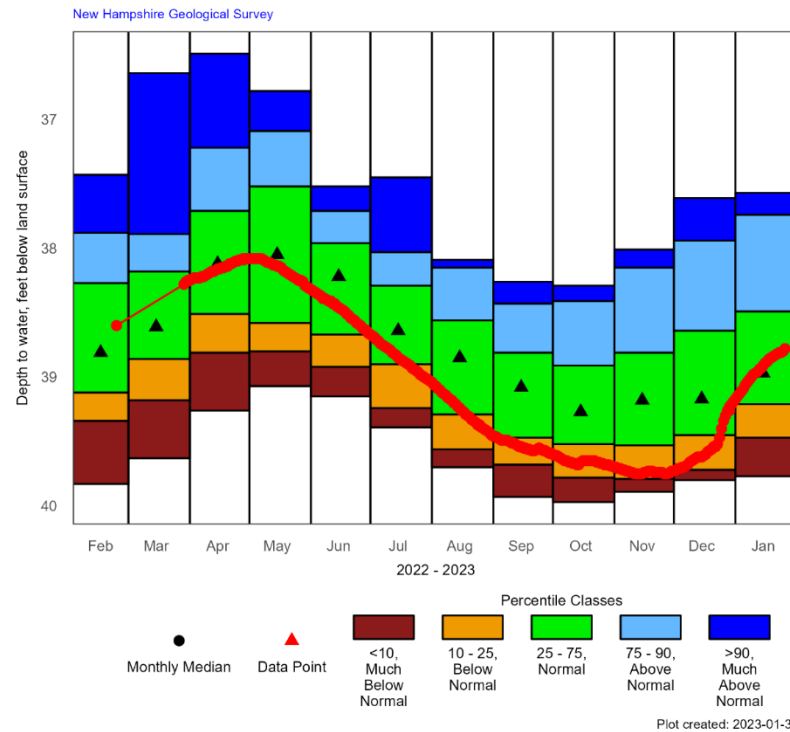Hydrologic AnalySis Package (HASP) open source code by USGS

DDW-46: Deerfield, NH Overburden Well
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

- ● Data Point
- ▲ Monthly Median
- Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

EPW-90: Epping, NH Overburden Well
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Percentile Classes

Monthly Median · Data Point

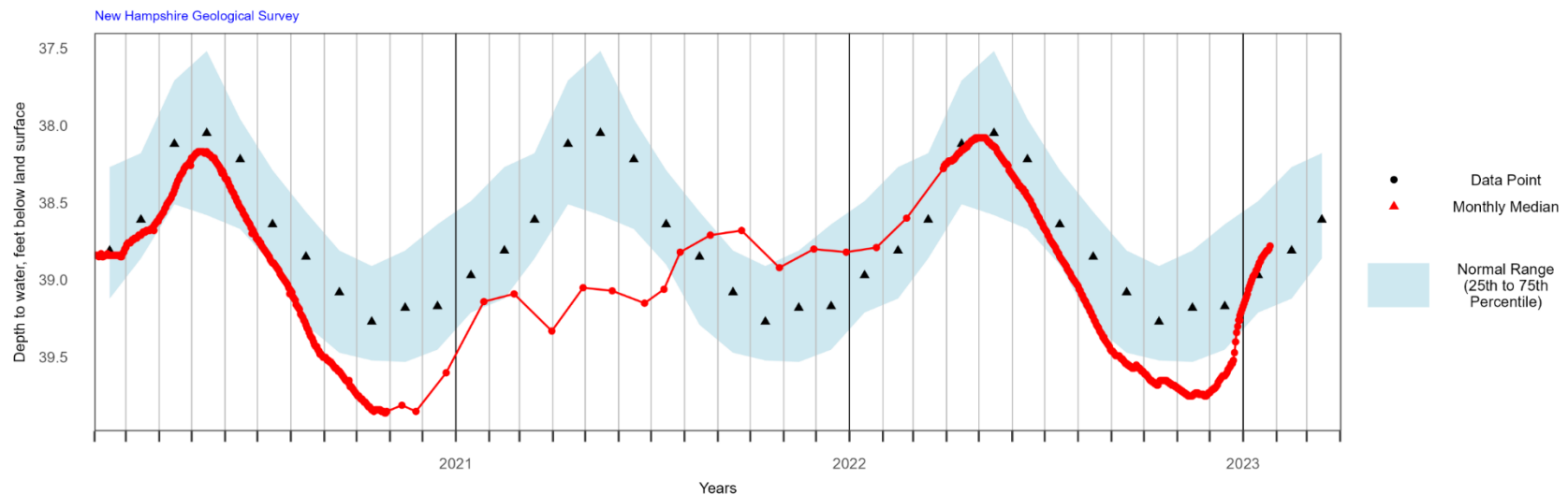| Class	Description
<10	Much Below Normal
10 - 25	Below Normal
25 - 75	Normal
75 - 90	Above Normal
>90	Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for EPW-90
Depth to water, feet below land surface
Most recent depth to water in EPW-90: 26.91 feet on 2023-01-26

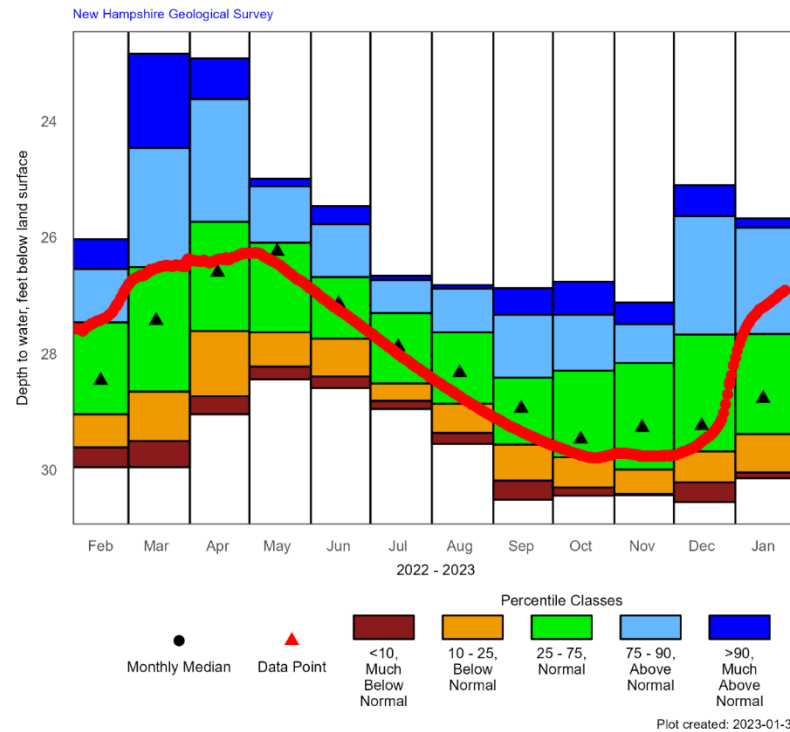| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	30.14	30.04	29.38	28.77	27.66	25.83	25.67	17
Feb	29.95	29.61	29.04	28.46	27.46	26.54	26.03	16
Mar	29.95	29.50	28.65	27.43	26.51	24.46	22.84	15
Apr	29.04	28.73	27.61	26.60	25.73	23.62	22.92	15
May	28.44	28.22	27.63	26.24	26.09	25.12	24.99	15
Jun	28.59	28.39	27.74	27.14	26.68	25.77	25.46	16
Jul	28.95	28.81	28.51	27.88	27.30	26.73	26.66	15
Aug	29.55	29.36	28.86	28.33	27.63	26.88	26.82	14
Sep	30.51	30.18	29.56	28.94	28.41	27.33	26.87	16
Oct	30.44	30.30	29.78	29.47	28.29	27.33	26.76	14
Nov	30.43	30.41	29.99	29.27	28.16	27.49	27.12	16
Dec	30.55	30.21	29.68	29.24	27.67	25.63	25.10	16

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

EPW-90: Epping, NH Overburden Well
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

Data Point · Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

FKW-01: Franklin, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Percentile Classes

- ● Monthly Median
- ▲ Data Point
- <10, Much Below Normal
- 10 - 25, Below Normal
- 25 - 75, Normal
- 75 - 90, Above Normal
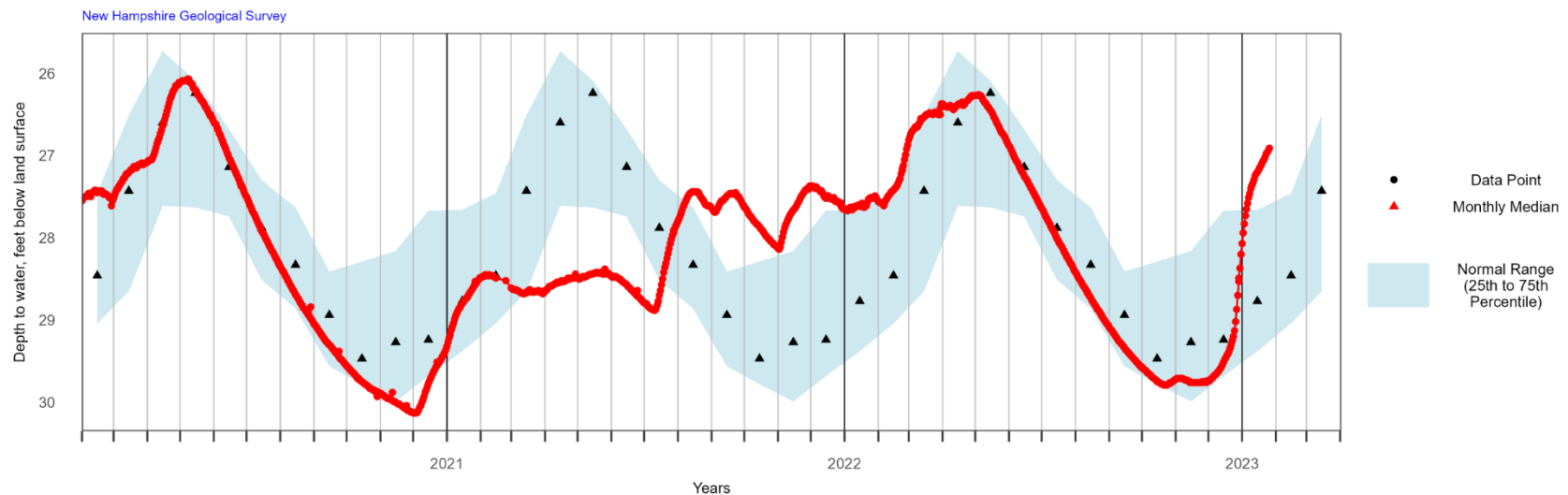- >90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for FKW-01
Depth to water, feet below land surface
Most recent depth to water in FKW-01: 13.47 feet on 2023-01-24

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.57	15.43	14.24	13.16	11.55	10.12	7.96	54
Feb	16.51	15.46	14.45	13.05	11.09	10.21	7.99	50
Mar	16.52	15.09	13.80	12.36	10.77	9.93	8.59	54
Apr	15.31	13.71	12.03	10.84	9.29	8.36	6.98	56
May	14.63	12.97	11.67	10.50	9.09	8.10	5.48	54
Jun	13.87	12.95	11.78	10.74	9.50	9.00	6.51	54
Jul	14.20	13.25	12.46	11.12	10.51	9.38	6.64	54
Aug	14.85	13.81	13.01	12.10	11.34	9.78	8.40	55
Sep	15.53	14.30	13.72	12.77	12.07	10.48	9.68	54
Oct	16.13	15.12	14.15	13.40	12.31	11.12	9.36	55
Nov	16.00	15.42	14.28	13.31	12.45	10.78	8.35	55
Dec	16.43	15.30	14.27	13.04	11.80	9.93	8.61	52

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
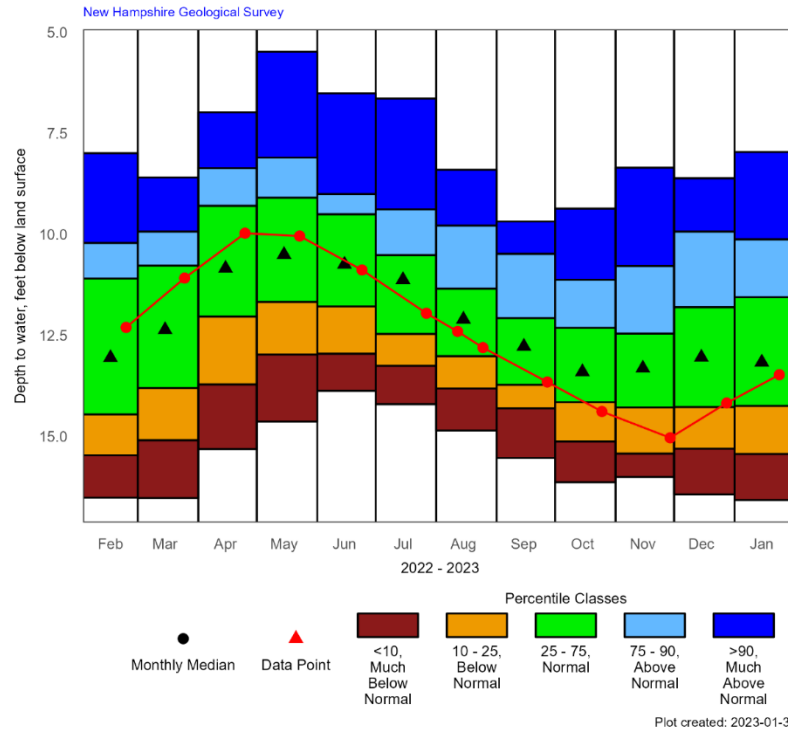Hydrologic AnalySis Package (HASP) open source code by USGS

FKW-01: Franklin, NH Overburden Well

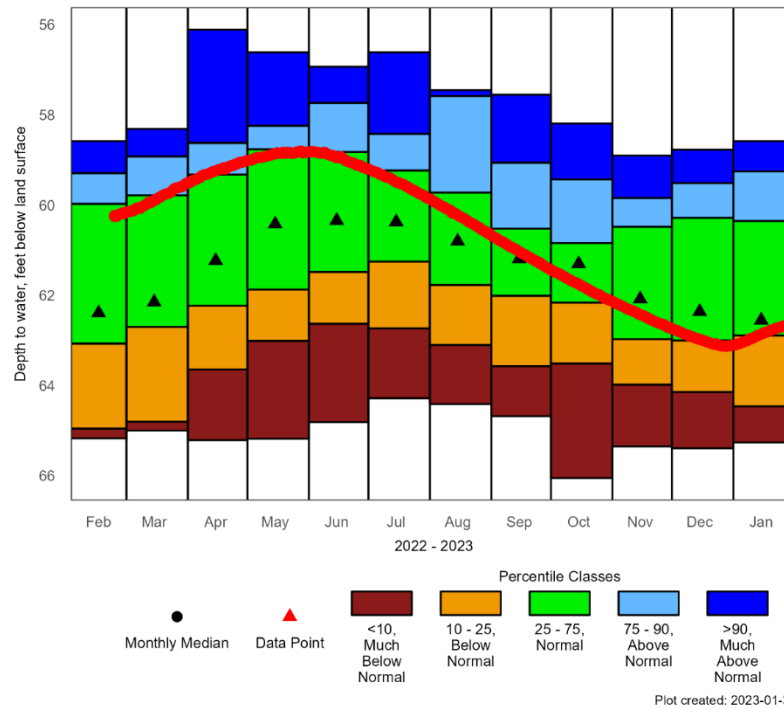### Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

- ● Data Point
- ▲ Monthly Median
- Normal Range (25th to 75th Percentile)

Years

Plot created: 2023-01-30

GSW-75: Greenfield, NH Overburden Well
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Percentile Classes

Monthly Median · Data Point ▲ | <10, Much Below Normal | 10 - 25, Below Normal | 25 - 75, Normal | 75 - 90, Above Normal | >90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for GSW-75
Depth to water, feet below land surface
Most recent depth to water in GSW-75: 62.66 feet on 2023-01-28

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	65.26	64.46	62.89	62.55	60.35	59.25	58.58	27
Feb	65.17	64.95	63.07	62.39	59.97	59.29	58.58	21
Mar	65.00	64.80	62.70	62.15	59.78	58.92	58.31	26
Apr	65.21	63.64	62.23	61.23	59.32	58.62	56.11	24
May	65.18	63.01	61.87	60.42	58.76	58.24	56.61	22
Jun	64.81	62.63	61.48	60.34	58.82	57.73	56.93	24
Jul	64.28	62.73	61.25	60.37	59.23	58.42	56.61	28
Aug	64.41	63.10	61.77	60.80	59.72	57.58	57.45	26
Sep	64.68	63.57	62.01	61.19	60.52	59.06	57.55	25
Oct	66.05	63.51	62.16	61.30	60.84	59.43	58.19	25
Nov	65.35	63.98	62.97	62.08	60.48	59.84	58.90	26
Dec	65.39	64.14	63.00	62.36	60.28	59.51	58.77	27

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

GSW-75: Greenfield, NH Overburden Well
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Data Point · ▲ Monthly Median · Normal Range (25th to 75th Percentile)

Years

Plot created: 2023-01-30

LCW-1: Lancaster, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

● Monthly Median   ▲ Data Point

■	■	■	■	■
<10, Much Below Normal	10 - 25, Below Normal	25 - 75, Normal	75 - 90, Above Normal	>90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for LCW-1
Depth to water, feet below land surface
Most recent depth to water in LCW-1: 2.81 feet on 2023-01-25

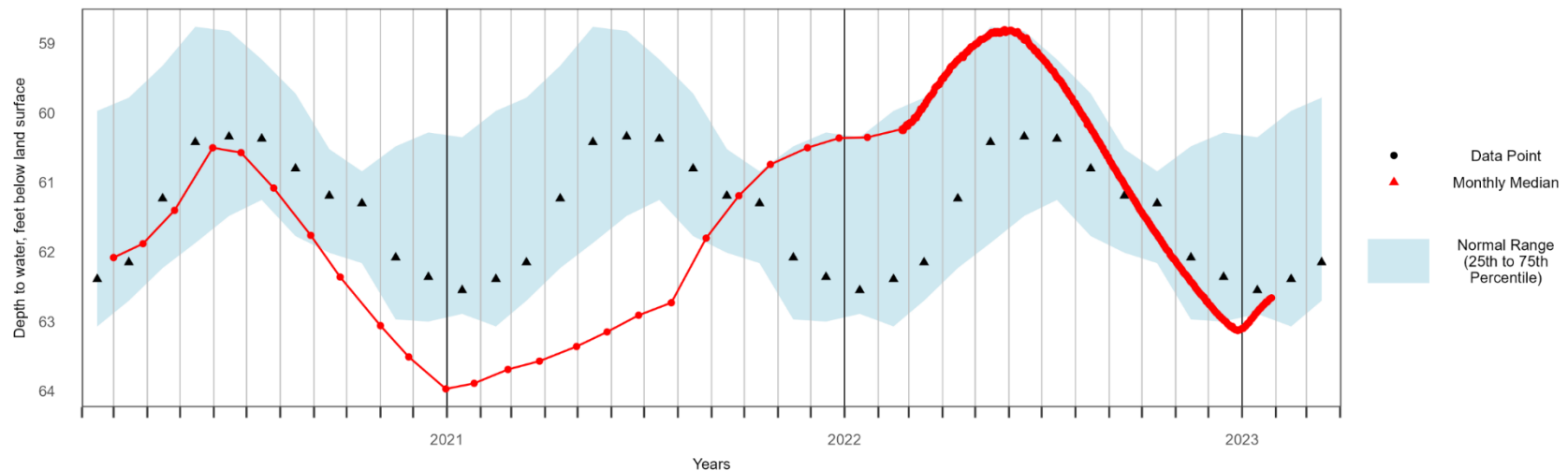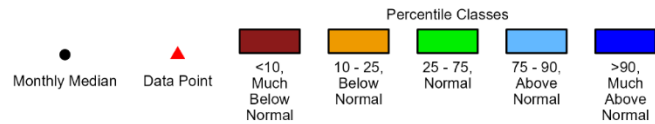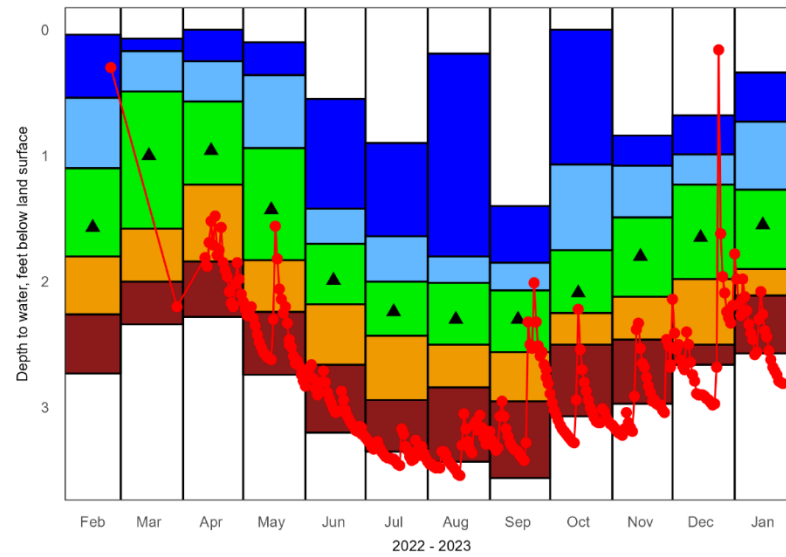| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	2.57	2.11	1.90	1.55	1.27	0.73	0.34	45
Feb	2.73	2.26	1.80	1.57	1.10	0.54	0.04	42
Mar	2.34	2.00	1.58	1.00	0.49	0.17	0.07	39
Apr	2.28	1.84	1.23	0.96	0.57	0.25	0.00	53
May	2.74	2.24	1.83	1.43	0.94	0.36	0.10	53
Jun	3.20	2.66	2.18	1.99	1.70	1.42	0.55	53
Jul	3.35	2.94	2.43	2.24	2.00	1.64	0.90	51
Aug	3.43	2.84	2.50	2.30	2.01	1.80	0.19	52
Sep	3.56	2.95	2.56	2.30	2.07	1.85	1.40	52
Oct	3.07	2.50	2.25	2.09	1.75	1.07	0.00	50
Nov	2.97	2.46	2.12	1.80	1.49	1.08	0.84	54
Dec	2.66	2.50	1.98	1.65	1.23	0.99	0.68	47

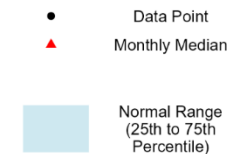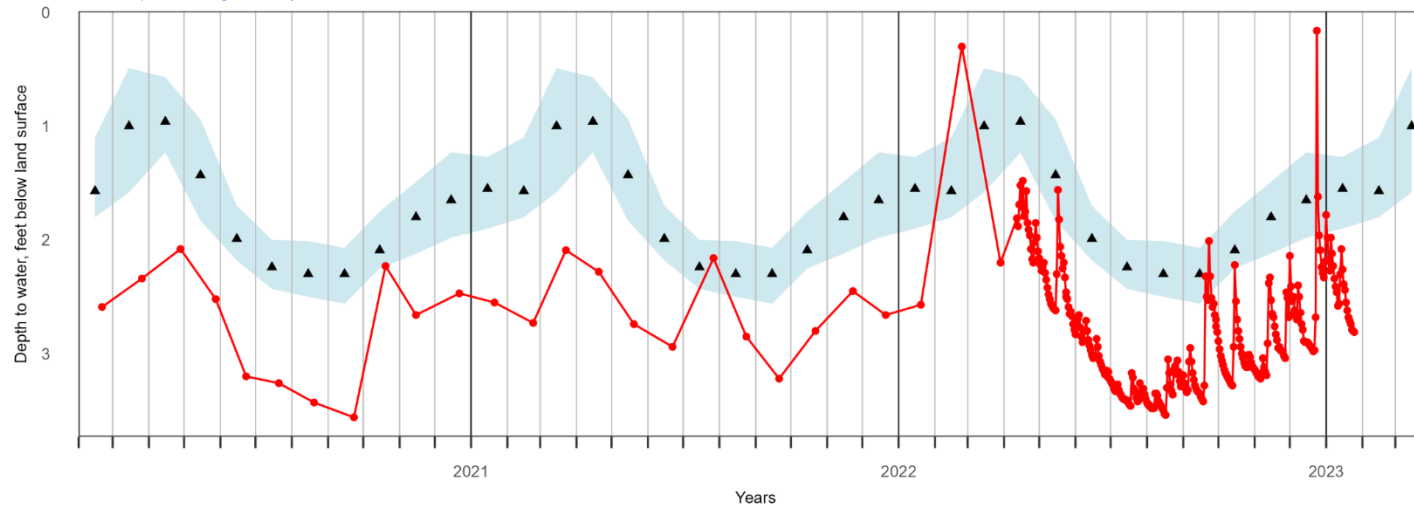Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

LCW-1: Lancaster, NH Overburden Well
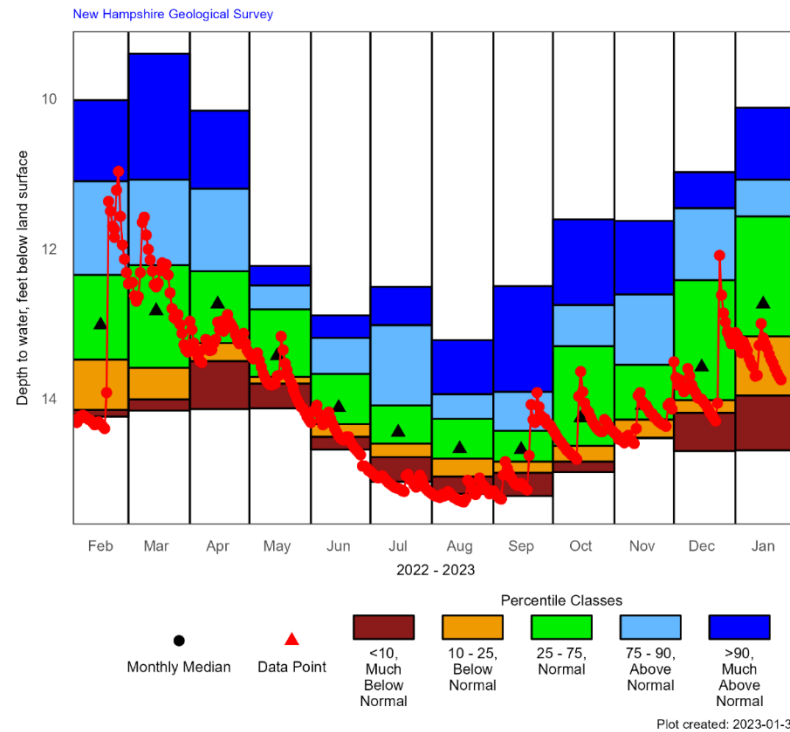
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

● Data Point
▲ Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

LLW-19: Lisbon, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Percentile Classes

- ● Monthly Median
- ▲ Data Point
- <10, Much Below Normal
- 10 - 25, Below Normal
- 25 - 75, Normal
- 75 - 90, Above Normal
- >90, Much Above Normal
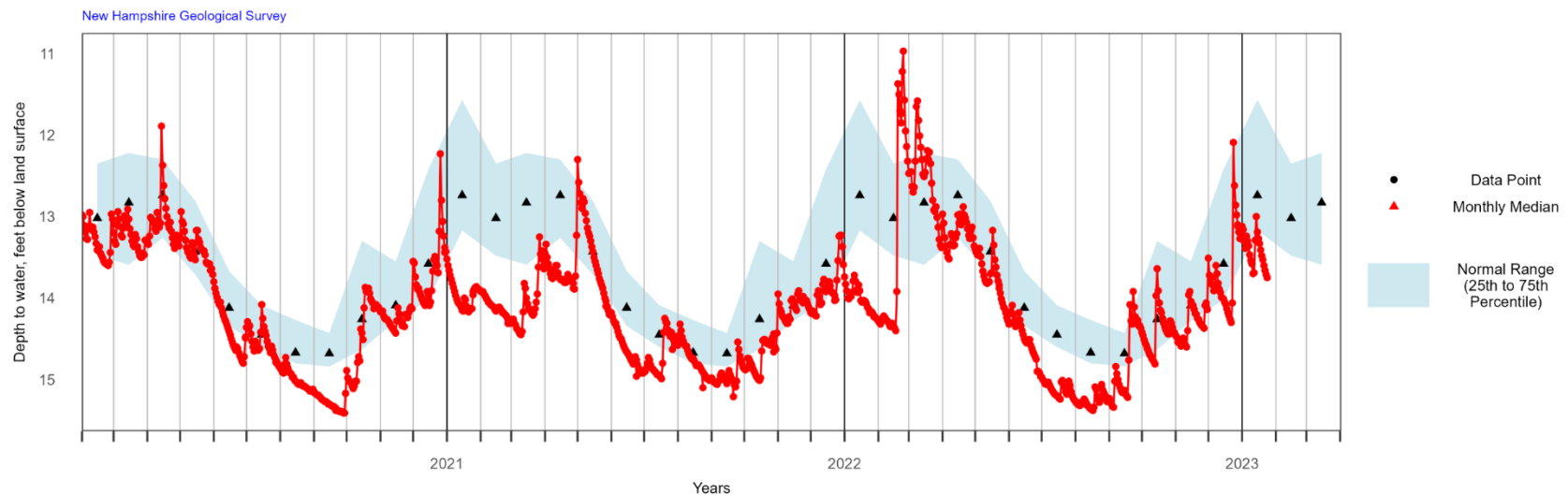
Plot created: 2023-01-30

Period of Record Monthly Statistics for LLW-19
Depth to water, feet below land surface
Most recent depth to water in LLW-19: 13.75 feet on 2023-01-24

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	14.69	13.96	13.17	12.74	11.57	11.08	10.12	29
Feb	14.24	14.15	13.48	13.02	12.35	11.10	10.02	26
Mar	14.16	14.01	13.59	12.83	12.22	11.08	9.40	27
Apr	14.14	13.50	13.26	12.74	12.30	11.20	10.16	28
May	14.13	13.80	13.71	13.43	12.81	12.49	12.23	28
Jun	14.68	14.51	14.34	14.12	13.67	13.19	12.89	28
Jul	15.11	14.78	14.60	14.45	14.09	13.02	12.51	29
Aug	15.27	15.04	14.80	14.67	14.27	13.94	13.22	29
Sep	15.30	14.99	14.84	14.68	14.43	13.91	12.50	29
Oct	14.98	14.84	14.63	14.26	13.30	12.75	11.61	29
Nov	14.53	14.52	14.28	14.09	13.55	12.61	11.63	28
Dec	14.70	14.19	14.02	13.58	12.42	11.46	10.98	29

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

LLW-19: Lisbon, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

- ● Data Point
- ▲ Monthly Median
- Normal Range (25th to 75th Percentile)
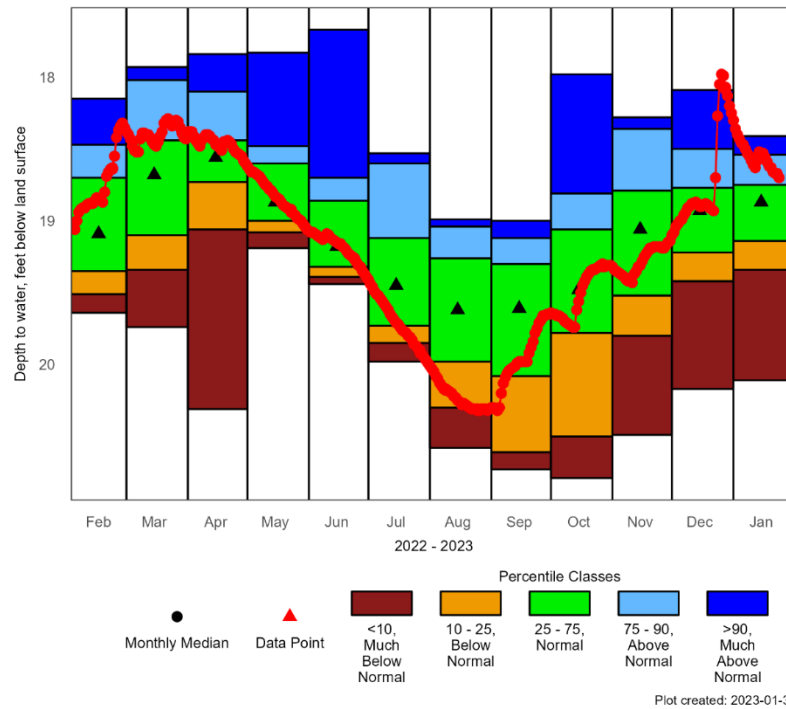
Plot created: 2023-01-30

NFW-53: New Durham, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Period of Record Monthly Statistics for NFW-53
Depth to water, feet below land surface
Most recent depth to water in NFW-53: 18.7 feet on 2023-01-24

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	20.11	19.34	19.14	18.87	18.75	18.54	18.41	28
Feb	19.64	19.51	19.35	19.09	18.70	18.47	18.15	28
Mar	19.74	19.34	19.10	18.68	18.44	18.02	17.93	29
Apr	20.31	19.06	18.73	18.56	18.44	18.10	17.84	29
May	19.19	19.08	19.00	18.87	18.60	18.48	17.83	28
Jun	19.44	19.39	19.32	19.18	18.86	18.70	17.67	27
Jul	19.98	19.85	19.73	19.45	19.12	18.60	18.53	27
Aug	20.58	20.30	19.98	19.62	19.26	19.04	18.99	28
Sep	20.73	20.61	20.08	19.61	19.30	19.12	19.00	28
Oct	20.79	20.50	19.78	19.48	19.06	18.81	17.98	29
Nov	20.49	19.80	19.52	19.06	18.79	18.36	18.28	28
Dec	20.17	19.42	19.22	18.93	18.77	18.50	18.09	29

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

Percentile Classes

Monthly Median · Data Point

<10, Much Below Normal · 10 - 25, Below Normal · 25 - 75, Normal · 75 - 90, Above Normal · >90, Much Above Normal

Plot created: 2023-01-30

NFW-53: New Durham, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Data Point · Monthly Median · Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

NLW-01: New London, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

● Monthly Median   ▲ Data Point

<10, Much Below Normal | 10 - 25, Below Normal | 25 - 75, Normal | 75 - 90, Above Normal | >90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for NLW-01
Depth to water, feet below land surface
Most recent depth to water in NLW-01: 5.71 feet on 2023-01-27

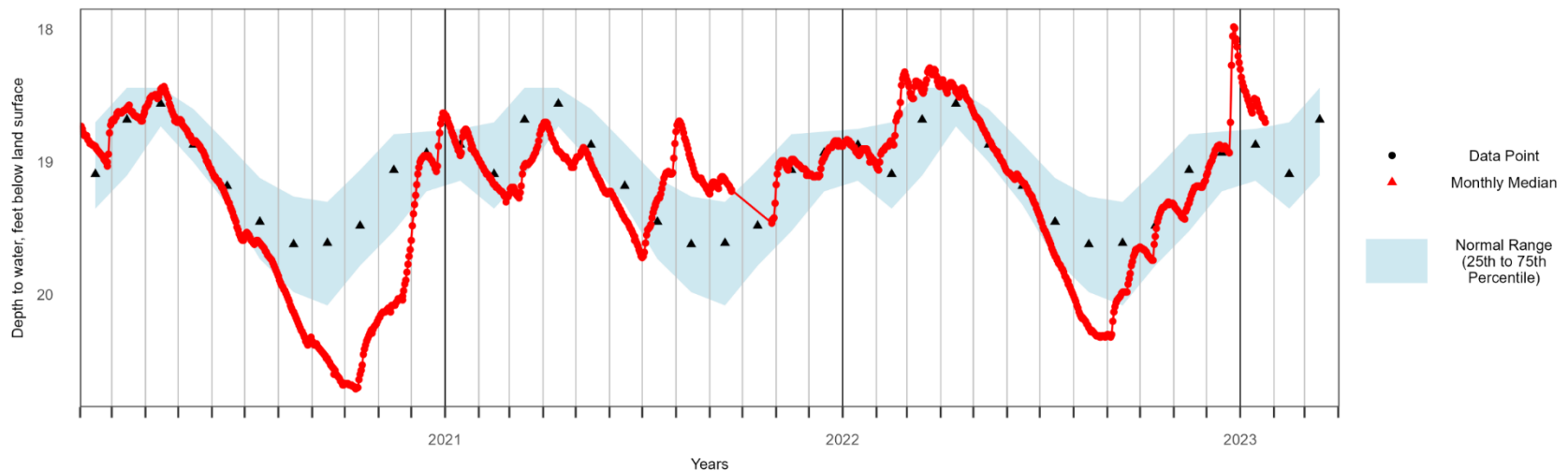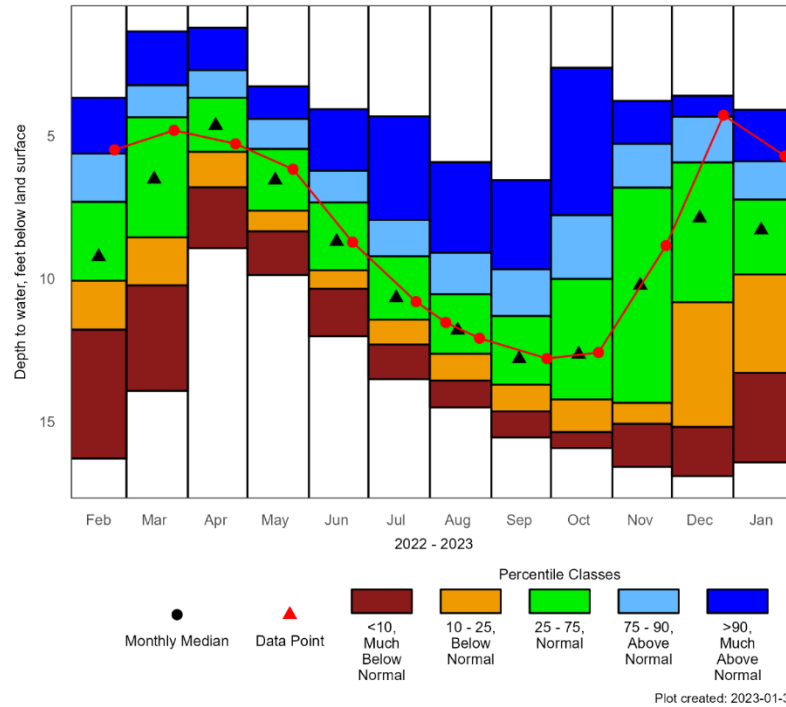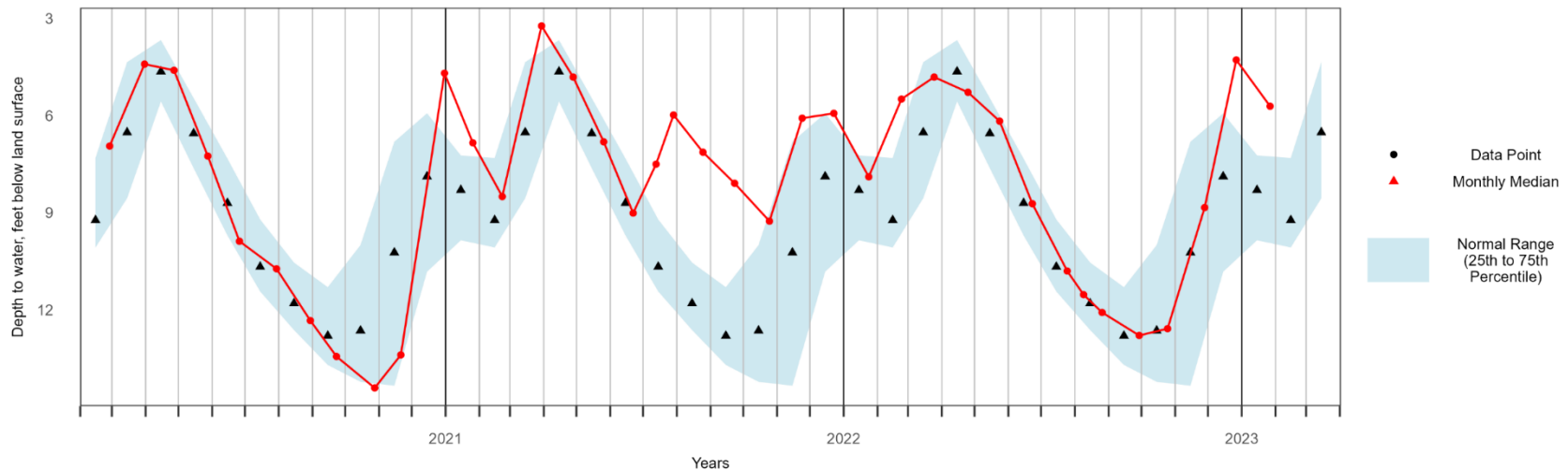| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.42	13.29	9.85	8.30	7.23	5.89	4.09	73
Feb	16.29	11.78	10.07	9.23	7.31	5.62	3.67	69
Mar	13.92	10.23	8.55	6.52	4.35	3.23	1.35	71
Apr	8.93	6.80	5.56	4.64	3.67	2.70	1.22	74
May	9.87	8.34	7.62	6.55	5.46	4.41	3.27	73
Jun	12.01	10.35	9.70	8.70	7.33	6.22	4.07	73
Jul	13.51	12.30	11.43	10.67	9.21	7.94	4.32	74
Aug	14.50	13.56	12.62	11.80	10.54	9.09	5.92	73
Sep	15.55	14.64	13.70	12.80	11.30	9.67	6.55	73
Oct	15.92	15.36	14.22	12.64	10.00	7.77	2.62	74
Nov	16.58	15.07	14.34	10.23	6.81	5.28	3.78	74
Dec	16.90	15.18	10.82	7.88	5.93	4.33	3.60	70

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

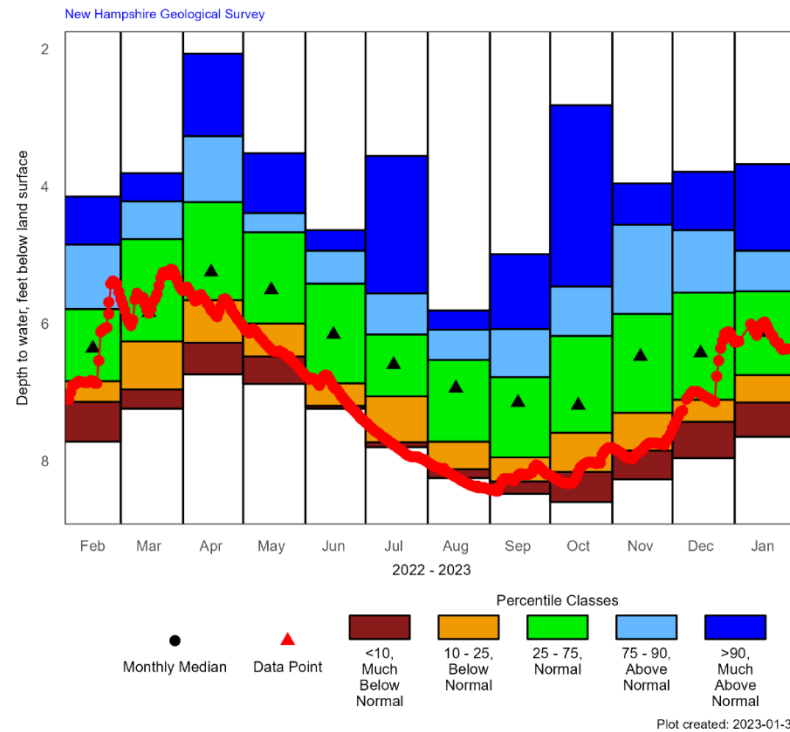NLW-01: New London, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

● Data Point
▲ Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

NPW-03: Newport, NH Overburden Well, Deep Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Depth to water, feet below land surface

2022 - 2023

Percentile Classes

- ● Monthly Median
- ▲ Data Point
- <10, Much Below Normal
- 10 - 25, Below Normal
- 25 - 75, Normal
- 75 - 90, Above Normal
- >90, Much Above Normal
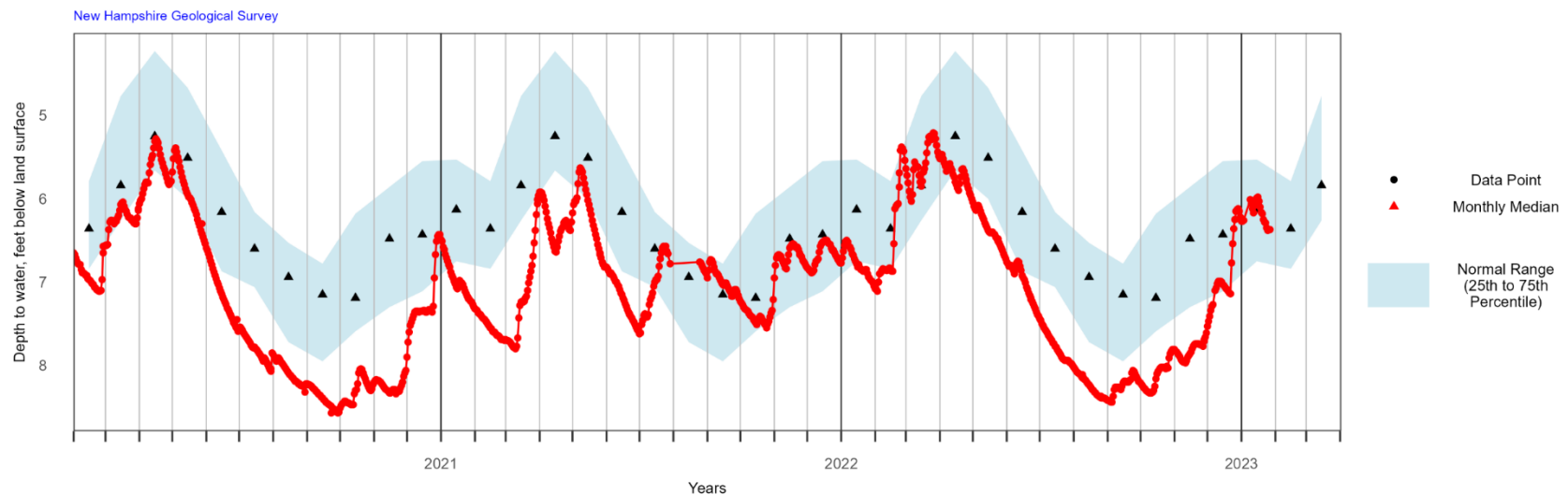
Plot created: 2023-01-30

Period of Record Monthly Statistics for NPW-03
Depth to water, feet below land surface
Most recent depth to water in NPW-03: 6.37 feet on 2023-01-27

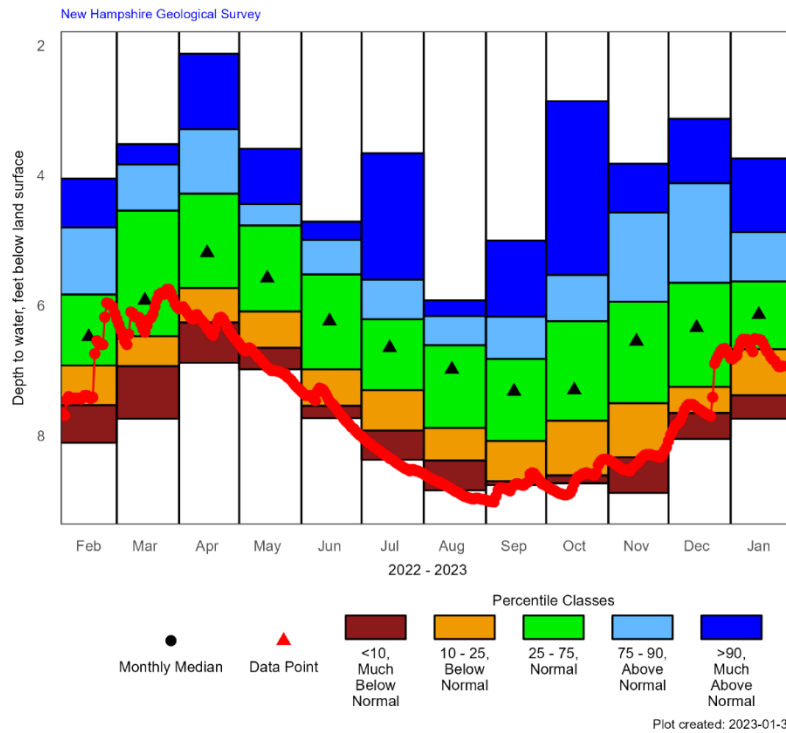| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	7.65	7.15	6.75	6.13	5.53	4.94	3.68	28
Feb	7.72	7.14	6.84	6.36	5.79	4.85	4.15	26
Mar	7.24	6.96	6.26	5.84	4.77	4.22	3.81	25
Apr	6.74	6.28	5.66	5.25	4.23	3.27	2.07	29
May	6.88	6.48	6.00	5.51	4.67	4.39	3.52	27
Jun	7.24	7.20	6.87	6.16	5.42	4.94	4.64	27
Jul	7.80	7.73	7.06	6.60	6.16	5.56	3.56	27
Aug	8.25	8.12	7.72	6.94	6.53	6.09	5.81	28
Sep	8.48	8.30	7.95	7.15	6.78	6.08	4.99	28
Oct	8.60	8.16	7.59	7.19	6.18	5.46	2.82	28
Nov	8.27	7.85	7.30	6.48	5.86	4.56	3.96	28
Dec	7.96	7.43	7.11	6.43	5.55	4.64	3.79	27

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

NPW-03: Newport, NH Overburden Well, Deep Couplet Member

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Depth to water, feet below land surface

Years

- ● Data Point
- ▲ Monthly Median
- Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

NPW-06: Newport, NH Overburden Well, Shallow Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

- Monthly Median (●)
- Data Point (▲)
- <10, Much Below Normal
- 10 - 25, Below Normal
- 25 - 75, Normal
- 75 - 90, Above Normal
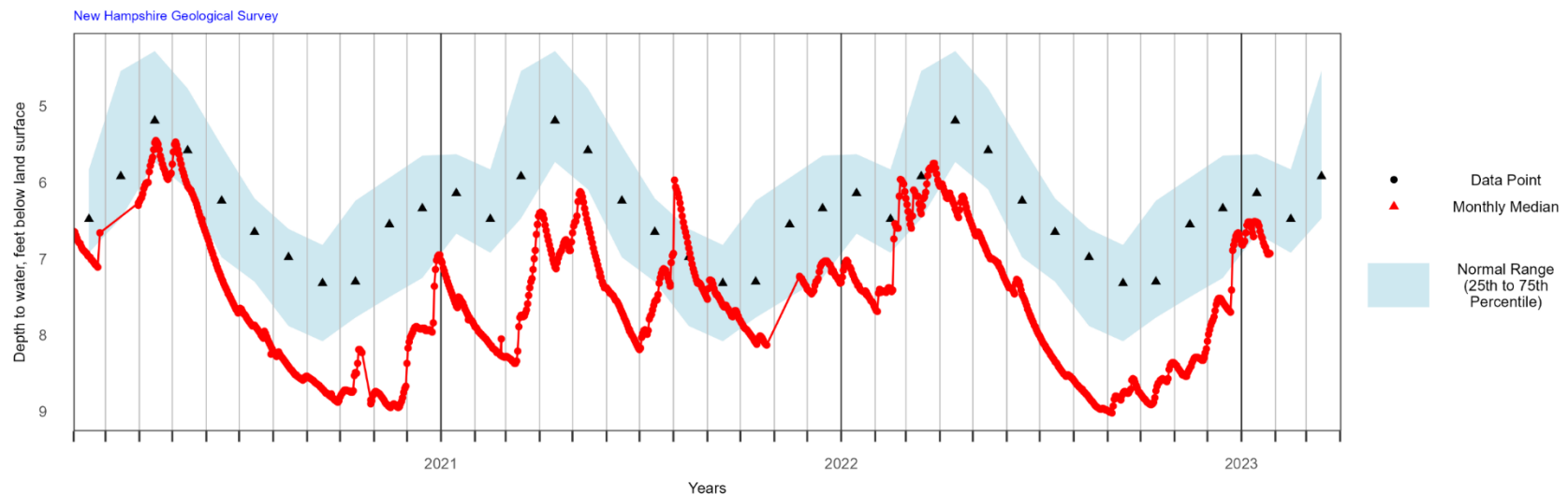- >90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for NPW-06
Depth to water, feet below land surface
Most recent depth to water in NPW-06: 6.93 feet on 2023-01-27

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	7.74	7.38	6.67	6.14	5.63	4.87	3.74	28
Feb	8.11	7.53	6.92	6.48	5.83	4.80	4.05	26
Mar	7.74	6.93	6.47	5.92	4.54	3.83	3.52	26
Apr	6.88	6.26	5.73	5.19	4.28	3.29	2.13	29
May	6.98	6.65	6.09	5.58	4.77	4.44	3.59	27
Jun	7.73	7.54	6.98	6.24	5.52	4.99	4.71	27
Jul	8.37	7.92	7.30	6.65	6.21	5.60	3.66	27
Aug	8.84	8.38	7.88	6.98	6.61	6.16	5.92	28
Sep	8.76	8.70	8.08	7.32	6.82	6.17	5.00	28
Oct	8.73	8.61	7.77	7.30	6.24	5.53	2.86	28
Nov	8.88	8.33	7.50	6.55	5.94	4.57	3.82	28
Dec	8.05	7.65	7.25	6.34	5.65	4.12	3.13	27

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

NPW-06: Newport, NH Overburden Well, Shallow Couplet Member

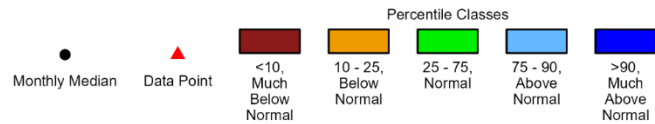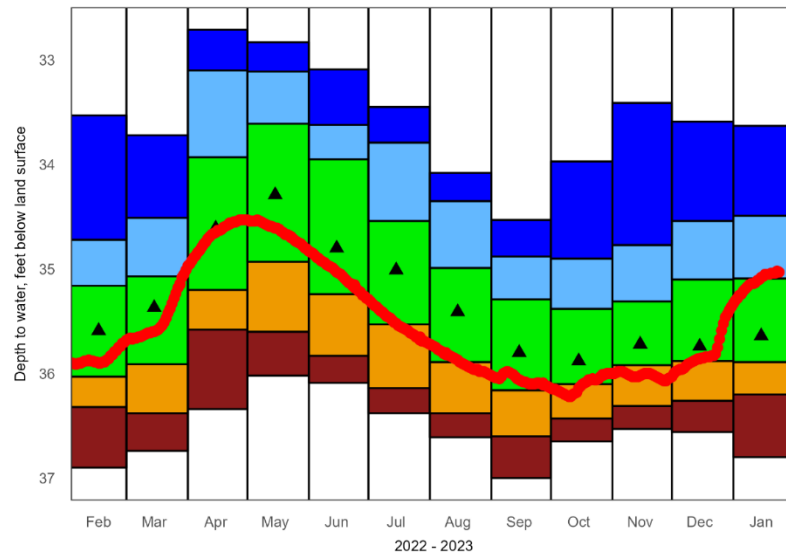### Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

- Data Point (●)
- Monthly Median (▲)
- Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

OXW-38: Ossipee, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Period of Record Monthly Statistics for OXW-38
Depth to water, feet below land surface
Most recent depth to water in OXW-38: 35.03 feet on 2023-01-24

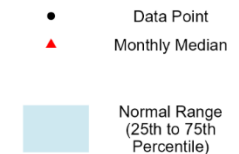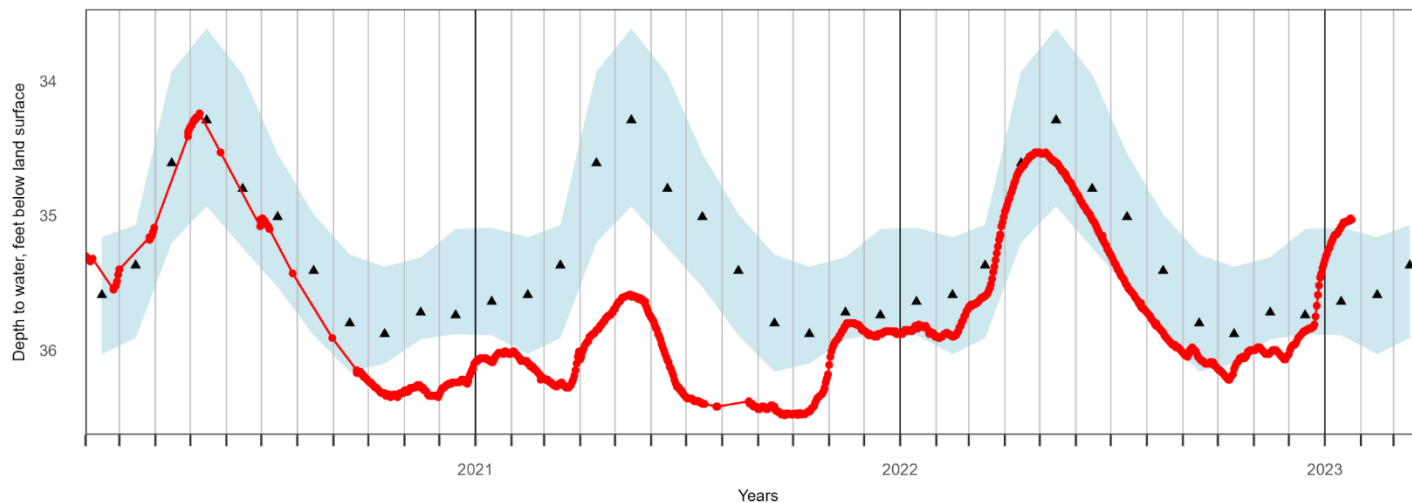| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	36.80	36.20	35.89	35.64	35.09	34.49	33.63	27
Feb	36.90	36.32	36.03	35.59	35.16	34.72	33.53	27
Mar	36.74	36.38	35.91	35.37	35.07	34.51	33.72	25
Apr	36.34	35.58	35.20	34.61	33.93	33.10	32.71	28
May	36.02	35.60	34.93	34.29	33.61	33.11	32.83	27
Jun	36.09	35.83	35.24	34.80	33.95	33.62	33.09	27
Jul	36.38	36.14	35.53	35.01	34.54	33.79	33.45	27
Aug	36.61	36.38	35.89	35.41	34.99	34.35	34.08	28
Sep	37.00	36.60	36.16	35.80	35.29	34.88	34.53	29
Oct	36.65	36.43	36.10	35.88	35.38	34.90	33.97	28
Nov	36.53	36.31	35.92	35.72	35.31	34.77	33.41	28
Dec	36.56	36.26	35.88	35.74	35.10	34.54	33.59	28

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

Percentile Classes

Monthly Median · Data Point ▲

<10, Much Below Normal · 10 - 25, Below Normal · 25 - 75, Normal · 75 - 90, Above Normal · >90, Much Above Normal

Plot created: 2023-01-30

OXW-38: Ossipee, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

- Data Point
- ▲ Monthly Median
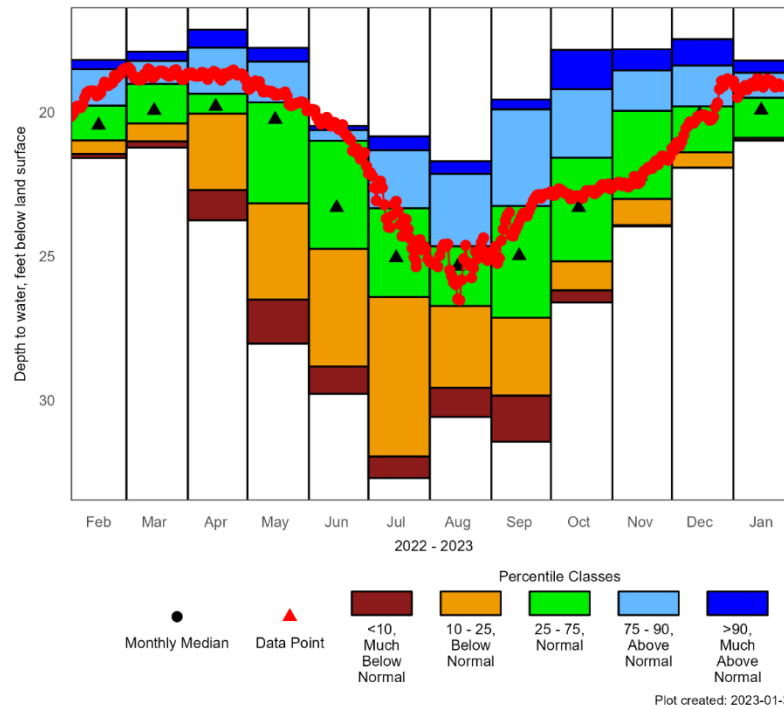- Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

CVWB-01: Concord, NH Bedrock Well, Deep Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Period of Record Monthly Statistics for CVWB-01
Depth to water, feet below land surface
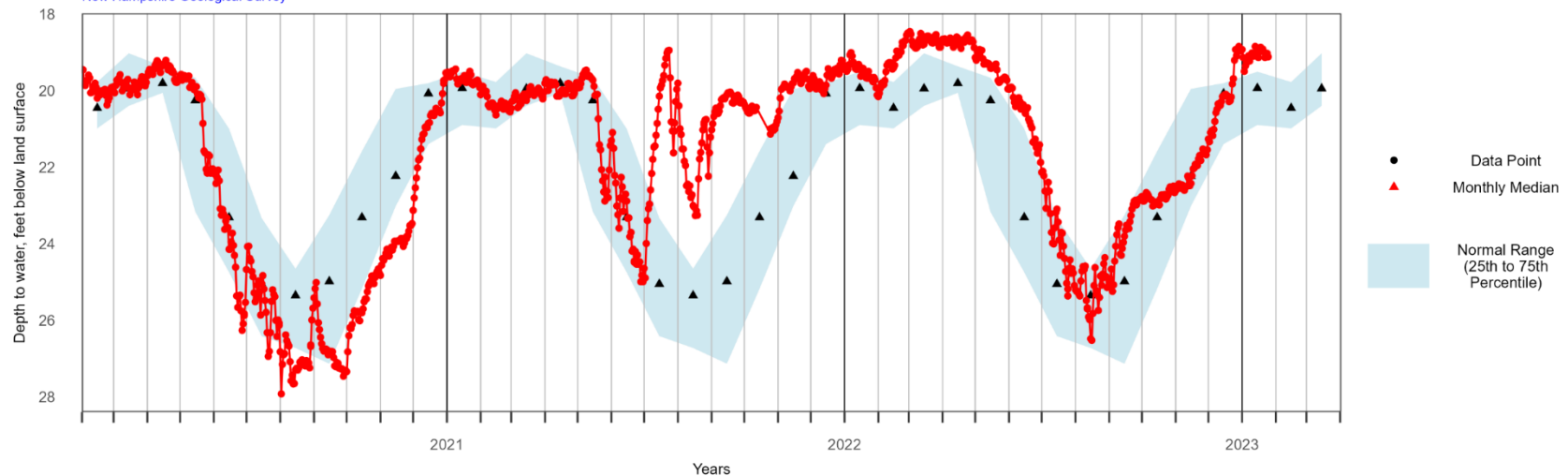Most recent depth to water in CVWB-01: 19.11 feet on 2023-01-25

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	20.99	20.97	20.89	19.93	19.50	18.63	18.21	14
Feb	21.59	21.45	20.98	20.45	19.77	18.51	18.19	12
Mar	21.23	21.01	20.39	19.94	19.02	18.22	17.90	13
Apr	23.75	22.70	20.05	19.80	19.36	17.76	17.14	13
May	28.03	26.50	23.16	20.25	19.66	18.24	17.77	13
Jun	29.77	28.82	24.74	23.31	20.99	20.62	20.48	14
Jul	32.69	31.94	26.41	25.05	23.33	21.32	20.84	13
Aug	30.57	29.56	26.72	25.35	24.65	22.14	21.70	14
Sep	31.43	29.83	27.13	24.98	23.25	19.90	19.56	14
Oct	26.60	26.18	25.17	23.31	21.58	19.20	17.84	14
Nov	23.96	23.92	23.01	22.23	19.95	18.55	17.82	14
Dec	21.93	21.92	21.39	20.07	19.80	18.38	17.47	14

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

Plot created: 2023-01-30

CVWB-01: Concord, NH Bedrock Well, Deep Couplet Member

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Plot created: 2023-01-30
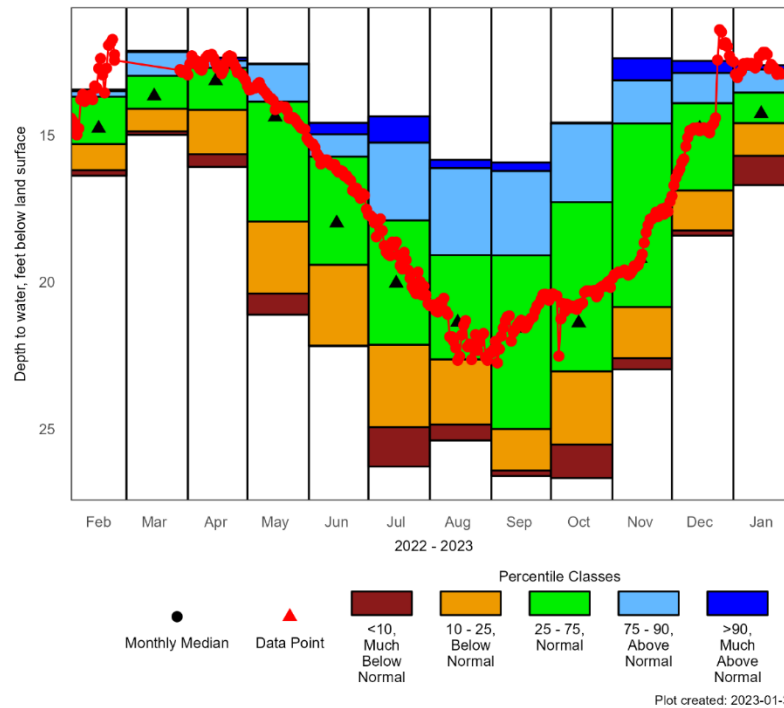
CVWB-02: Concord, NH, Bedrock Well, Shallow Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Period of Record Monthly Statistics for CVWB-02
Depth to water, feet below land surface
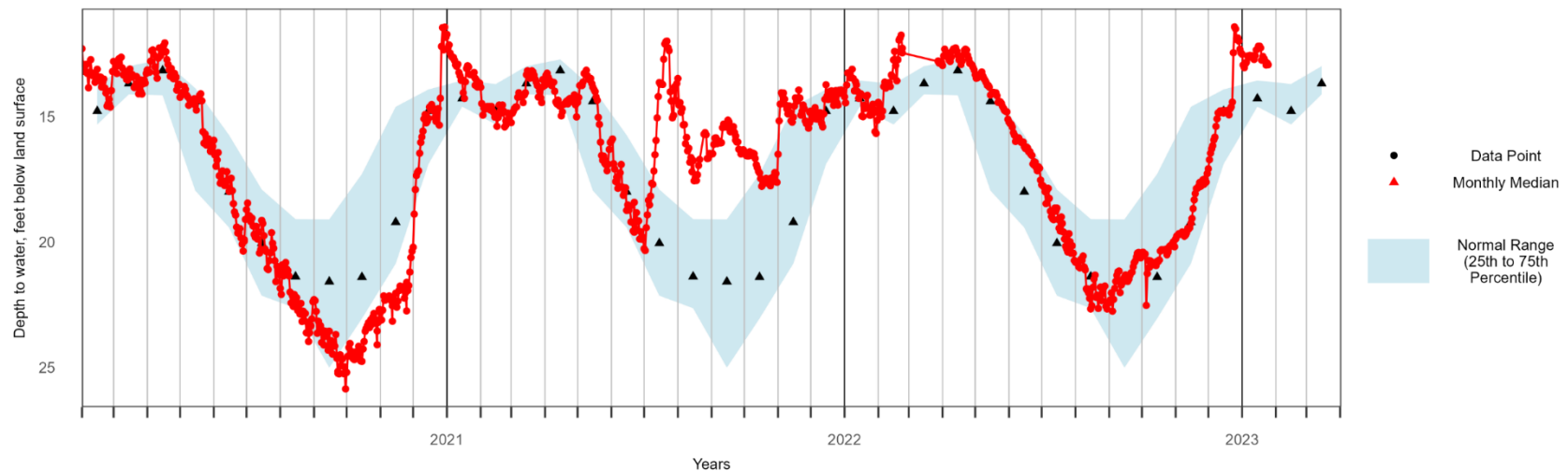Most recent depth to water in CVWB-02: 12.92 feet on 2023-01-25

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.70	15.70	14.59	14.27	13.55	12.76	12.62	14
Feb	16.38	16.19	15.30	14.77	13.69	13.50	13.45	13
Mar	14.99	14.87	14.10	13.67	12.98	12.17	12.13	13
Apr	16.08	15.65	14.14	13.15	12.71	12.46	12.36	13
May	21.11	20.39	17.94	14.38	13.86	12.58	12.56	13
Jun	22.18	22.16	19.41	17.99	15.73	14.97	14.58	14
Jul	26.28	24.94	22.13	20.04	17.90	15.25	14.36	14
Aug	25.39	24.85	22.63	21.37	19.08	16.12	15.84	14
Sep	26.60	26.41	25.00	21.57	19.09	16.22	15.93	14
Oct	26.67	25.53	23.04	21.39	17.28	14.60	14.57	14
Nov	22.97	22.59	20.85	19.20	14.60	13.13	12.38	14
Dec	18.42	18.24	16.88	14.77	13.91	12.88	12.47	14

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

Percentile Classes

● Monthly Median   ▲ Data Point

■ <10, Much Below Normal   ■ 10 - 25, Below Normal   ■ 25 - 75, Normal   ■ 75 - 90, Above Normal   ■ >90, Much Above Normal

Plot created: 2023-01-30

CVWB-02: Concord, NH, Bedrock Well, Shallow Couplet Member

Groundwater Levels and Statistics for Past 3 Years
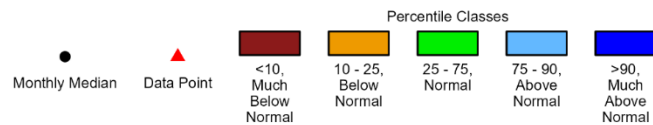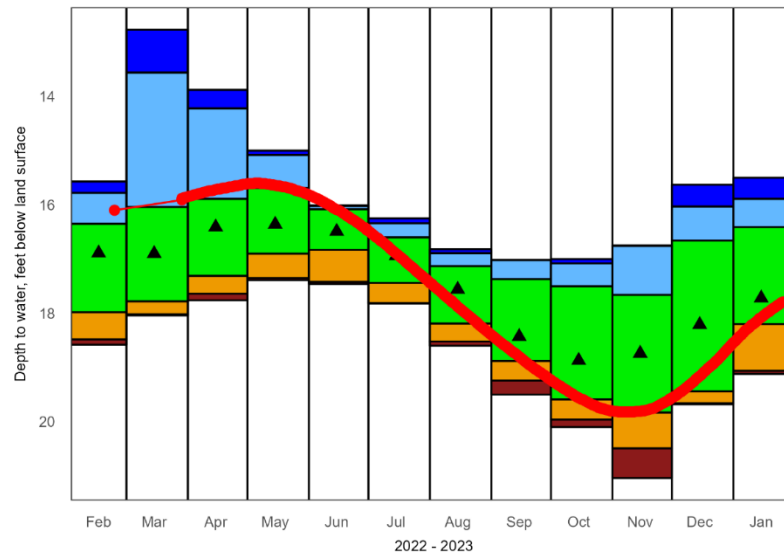

New Hampshire Geological Survey

● Data Point

▲ Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

DDWB-01: Deerfield, NH Bedrock Well
Annual Hydrograph with Historical Median and Percentile Classes

2022 - 2023

Period of Record Monthly Statistics for DDWB-01
Depth to water, feet below land surface
Most recent depth to water in DDWB-01: 17.79 feet on 2023-01-26

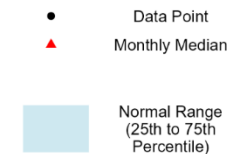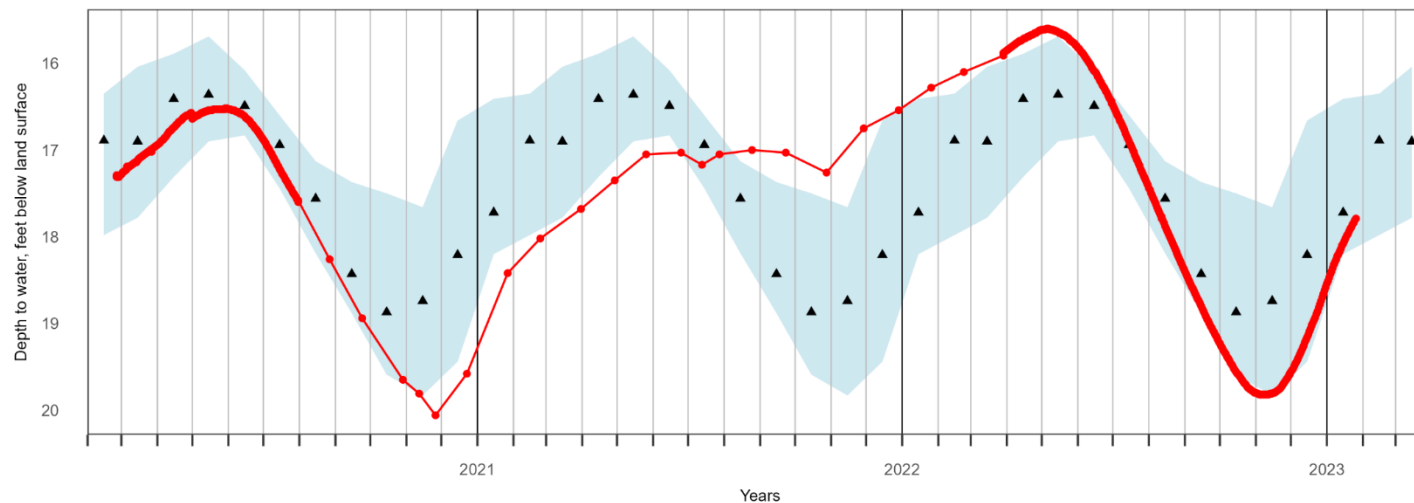| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	19.12	19.06	18.20	17.72	16.41	15.89	15.50	14
Feb	18.58	18.48	17.98	16.89	16.35	15.78	15.57	13
Mar	18.04	18.02	17.78	16.90	16.04	13.56	12.77	12
Apr	17.76	17.64	17.31	16.41	15.89	14.22	13.88	13
May	17.39	17.35	16.90	16.36	15.69	15.08	15.00	13
Jun	17.46	17.42	16.83	16.49	16.08	16.02	16.01	13
Jul	17.82	17.81	17.44	16.94	16.60	16.34	16.25	13
Aug	18.60	18.52	18.19	17.56	17.13	16.89	16.82	13
Sep	19.50	19.24	18.88	18.43	17.37	17.02	17.02	14
Oct	20.10	19.96	19.59	18.87	17.50	17.08	17.00	12
Nov	21.04	20.49	19.83	18.74	17.66	16.76	16.75	14
Dec	19.68	19.66	19.44	18.21	16.66	16.03	15.63	14

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

Percentile Classes

●	▲	<10, Much Below Normal	10 - 25, Below Normal	25 - 75, Normal	75 - 90, Above Normal	>90, Much Above Normal
Monthly Median	Data Point					

Plot created: 2023-01-30

DDWB-01: Deerfield, NH Bedrock Well
Groundwater Levels and Statistics for Past 3 Years

Years

- ● Data Point
- ▲ Monthly Median
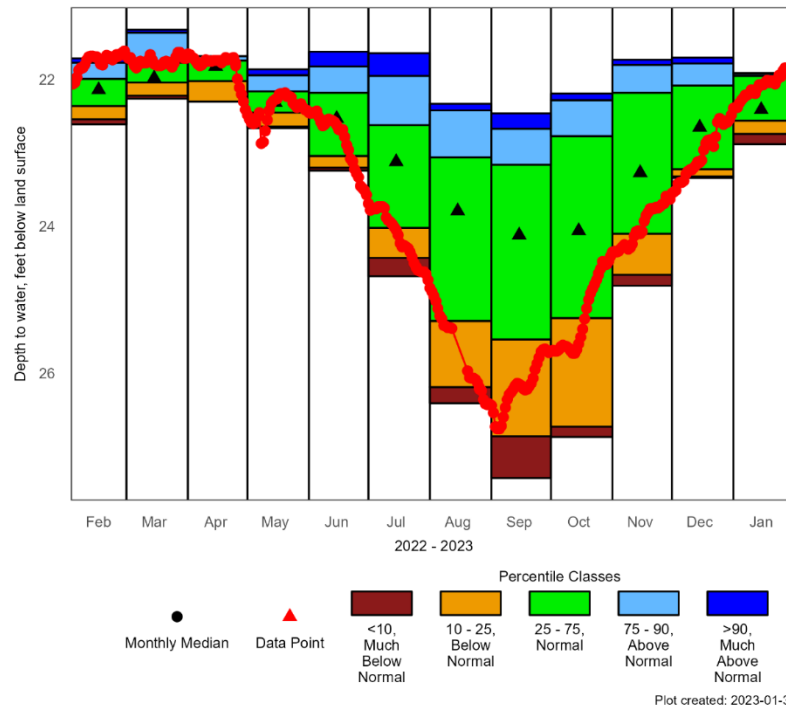- Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

EAWB-01: East Kingston, NH Bedrock Well, Deep Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Depth to water, feet below land surface

2022 - 2023

Percentile Classes

Monthly Median   Data Point

<10, Much Below Normal	10 - 25, Below Normal	25 - 75, Normal	75 - 90, Above Normal	>90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for EAWB-01
Depth to water, feet below land surface
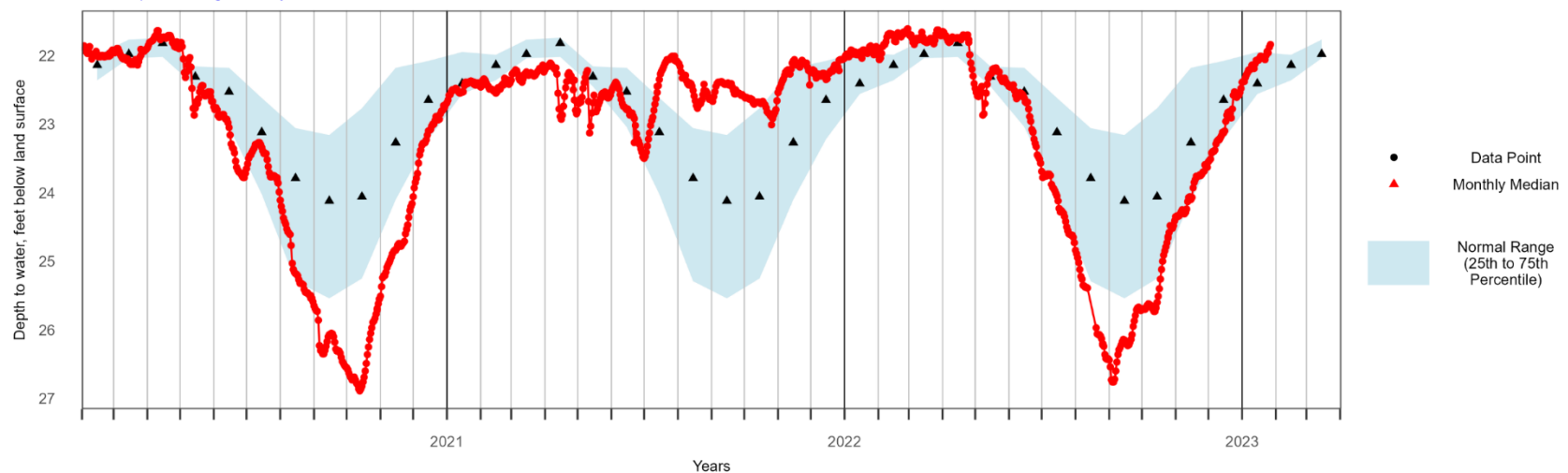Most recent depth to water in EAWB-01: 21.84 feet on 2023-01-27

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	22.88	22.74	22.56	22.41	21.95	21.92	21.91	14
Feb	22.61	22.54	22.36	22.14	21.99	21.77	21.71	13
Mar	22.26	22.22	22.04	21.98	21.77	21.36	21.32	13
Apr	22.30	22.30	22.02	21.82	21.74	21.68	21.68	13
May	22.66	22.64	22.45	22.31	22.16	21.94	21.86	13
Jun	23.24	23.20	23.04	22.53	22.18	21.82	21.62	14
Jul	24.68	24.43	24.02	23.12	22.62	21.95	21.64	14
Aug	26.41	26.19	25.29	23.79	23.06	22.42	22.33	14
Sep	27.43	26.86	25.54	24.12	23.16	22.67	22.46	14
Oct	26.87	26.73	25.25	24.06	22.77	22.28	22.19	14
Nov	24.81	24.66	24.10	23.27	22.18	21.80	21.73	14
Dec	23.34	23.32	23.22	22.65	22.08	21.78	21.70	14

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

EAWB-01: East Kingston, NH Bedrock Well, Deep Couplet Member

Groundwater Levels and Statistics for Past 3 Years
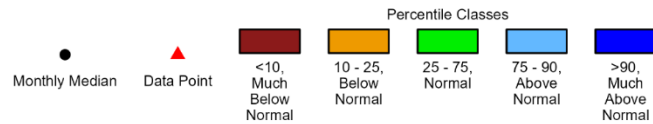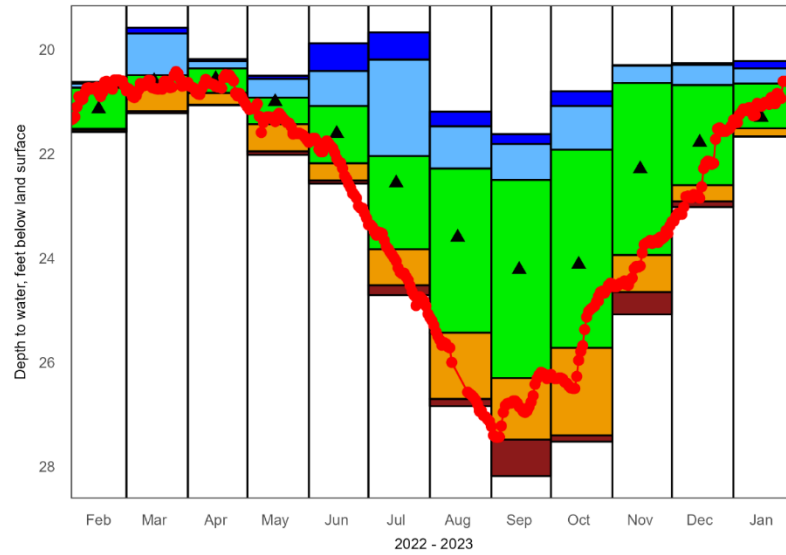
New Hampshire Geological Survey

Depth to water, feet below land surface

Years

Data Point   Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

EAWB-02: East Kingston, NH Bedrock Well, Shallow Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Percentile Classes

Monthly Median · Data Point

Color	Class
Dark Red	<10, Much Below Normal
Orange	10 - 25, Below Normal
Green	25 - 75, Normal
Light Blue	75 - 90, Above Normal
Blue	>90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for EAWB-02
Depth to water, feet below land surface
Most recent depth to water in EAWB-02: 20.61 feet on 2023-01-27

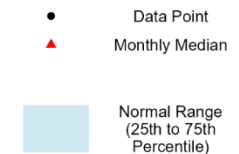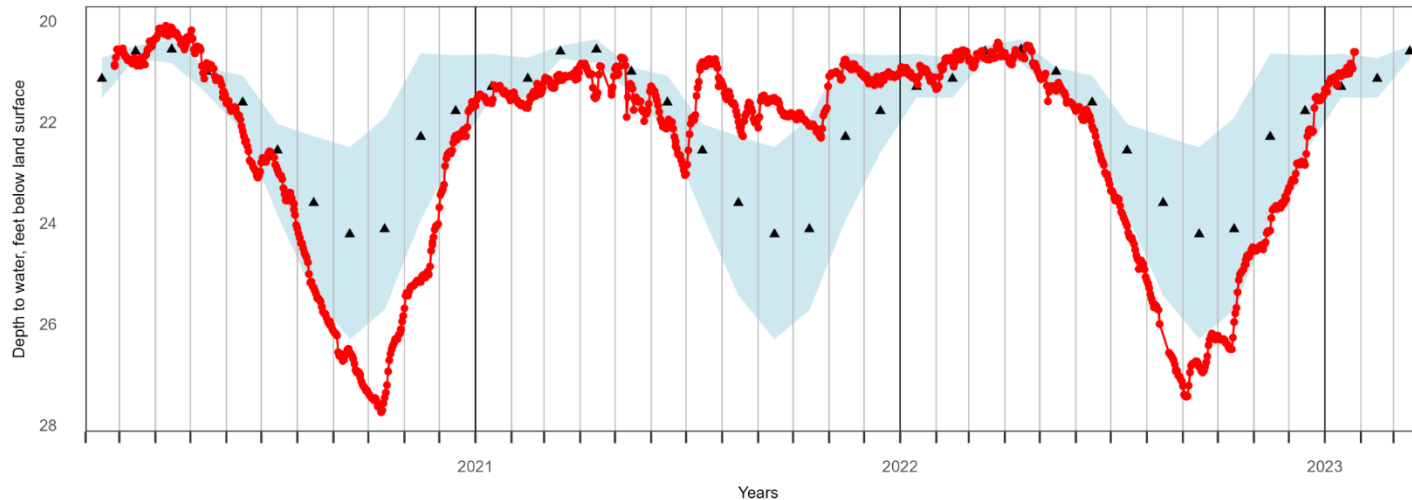| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	21.67	21.66	21.51	21.30	20.65	20.36	20.22	14
Feb	21.58	21.56	21.52	21.14	20.73	20.65	20.62	13
Mar	21.22	21.18	20.74	20.60	20.49	19.69	19.58	13
Apr	21.07	21.06	20.83	20.56	20.36	20.22	20.18	13
May	22.02	21.95	21.43	21.00	20.92	20.56	20.50	13
Jun	22.57	22.51	22.18	21.61	21.08	20.41	19.88	14
Jul	24.71	24.52	23.83	22.56	22.04	20.19	19.67	13
Aug	26.84	26.70	25.43	23.60	22.28	21.47	21.19	14
Sep	28.18	27.48	26.30	24.22	22.50	21.81	21.62	14
Oct	27.52	27.40	25.72	24.12	21.92	21.08	20.80	14
Nov	25.08	24.65	23.94	22.29	20.64	20.31	20.30	13
Dec	23.02	22.91	22.60	21.78	20.68	20.29	20.26	14

Table created: 2023-01-30

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EAWB-02: East Kingston, NH Bedrock Well, Shallow Couplet Member

Groundwater Levels and Statistics for Past 3 Years
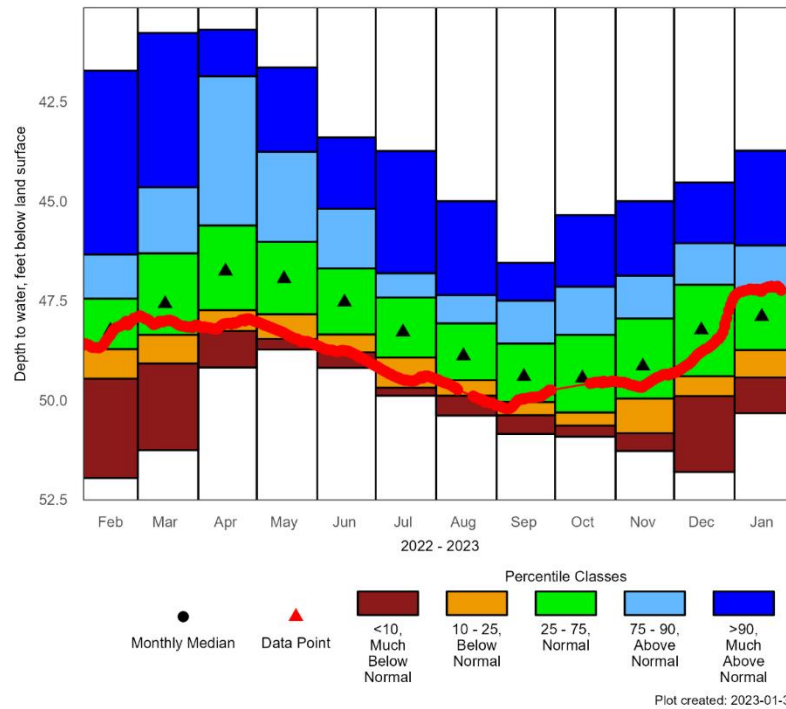
New Hampshire Geological Survey

Years

Data Point · Monthly Median · Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

HTW-05: Hooksett, NH Bedrock Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Period of Record Monthly Statistics for HTW-05
Depth to water, feet below land surface
Most recent depth to water in HTW-05: 47.24 feet on 2023-01-25

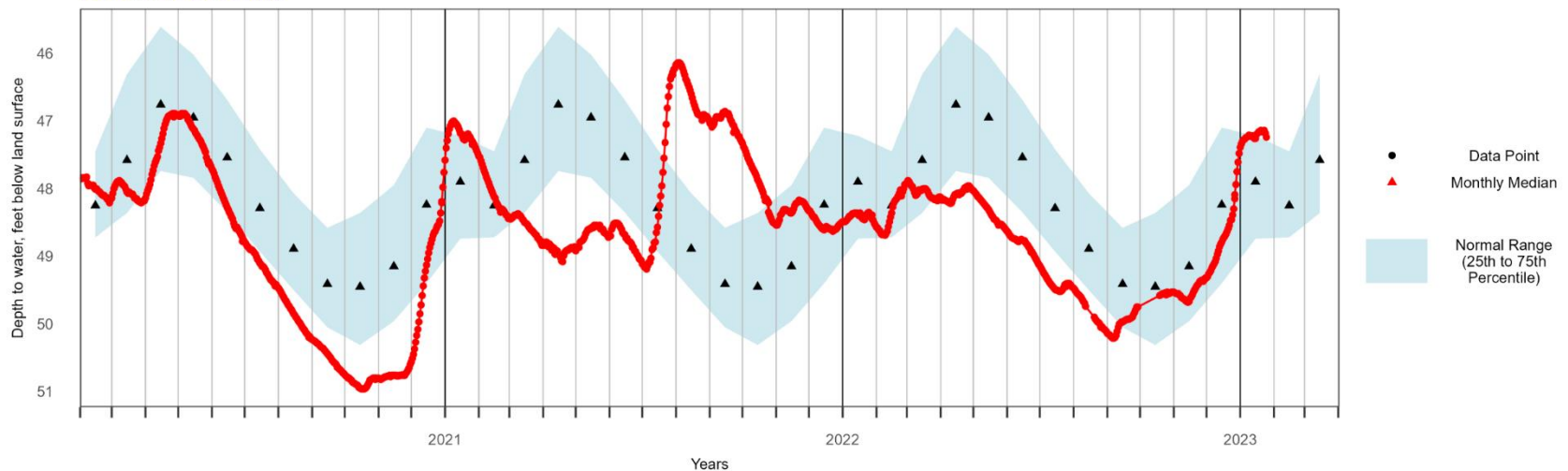| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	50.33	49.43	48.74	47.90	47.22	46.11	43.73	55
Feb	51.96	49.46	48.72	48.25	47.45	46.34	41.72	53
Mar	51.26	49.08	48.36	47.58	46.31	44.65	40.77	57
Apr	49.18	48.26	47.74	46.76	45.61	41.86	40.69	58
May	48.73	48.46	47.84	46.95	46.02	43.76	41.64	56
Jun	49.19	48.80	48.35	47.54	46.69	45.19	43.40	56
Jul	49.89	49.69	48.93	48.29	47.42	46.81	43.74	55
Aug	50.39	49.89	49.50	48.89	48.07	47.36	45.00	57
Sep	50.85	50.38	50.05	49.41	48.58	47.50	46.55	56
Oct	50.92	50.64	50.31	49.45	48.36	47.15	45.35	55
Nov	51.28	50.83	49.96	49.15	47.95	46.87	45.00	57
Dec	51.81	49.90	49.40	48.24	47.10	46.06	44.53	58

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

Percentile Classes

- Monthly Median
- Data Point
- <10, Much Below Normal
- 10 - 25, Below Normal
- 25 - 75, Normal
- 75 - 90, Above Normal
- >90, Much Above Normal

Plot created: 2023-01-30

HTW-05: Hooksett, NH Bedrock Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

- Data Point
- Monthly Median
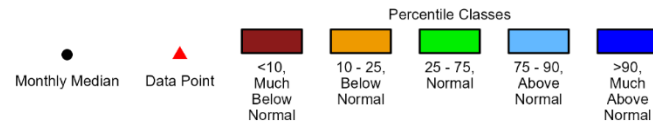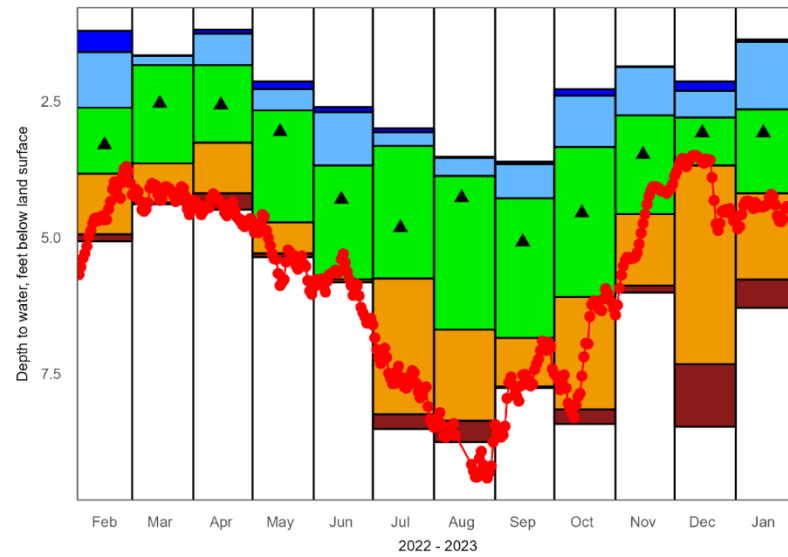- Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

NWWB-01: Northwood, NH Bedrock Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Percentile Classes

● Monthly Median   ▲ Data Point

<10, Much Below Normal	10 - 25, Below Normal	25 - 75, Normal	75 - 90, Above Normal	>90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for NWWB-01
Depth to water, feet below land surface
Most recent depth to water in NWWB-01: 4.43 feet on 2023-01-27

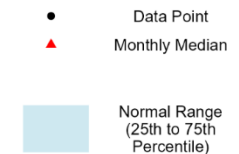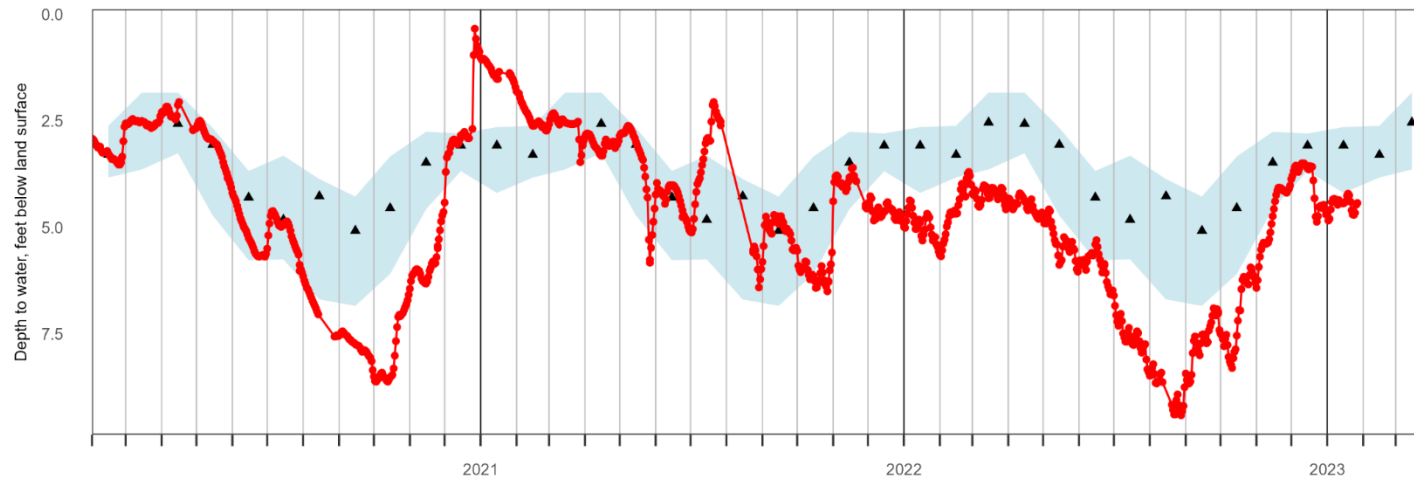| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	6.29	5.77	4.19	3.08	2.65	1.41	1.37	13
Feb	5.07	4.94	3.83	3.30	2.62	1.60	1.21	12
Mar	4.39	4.36	3.64	2.54	1.84	1.67	1.66	11
Apr	4.49	4.19	3.26	2.57	1.84	1.26	1.19	12
May	5.36	5.29	4.72	3.06	2.67	2.28	2.14	12
Jun	5.82	5.82	5.77	4.30	3.68	2.70	2.61	10
Jul	8.51	8.24	5.75	4.82	3.32	3.07	3.00	12
Aug	8.75	8.36	6.69	4.27	3.87	3.54	3.52	11
Sep	7.76	7.73	6.84	5.08	4.28	3.65	3.61	12
Oct	8.42	8.15	6.09	4.55	3.34	2.40	2.28	11
Nov	6.01	5.88	4.57	3.48	2.76	1.87	1.86	11
Dec	8.47	7.32	3.68	3.08	2.80	2.31	2.14	12

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

NWWB-01: Northwood, NH Bedrock Well

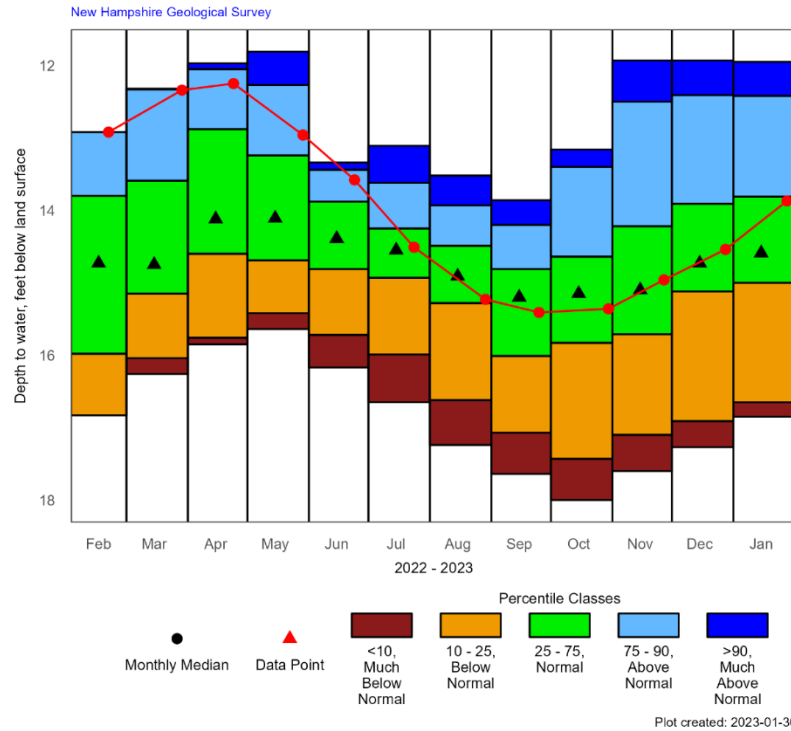### Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

● Data Point
▲ Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30

RGWB-01: Rindge, NH Bedrock Well, Deep Couplet Member
Annual Hydrograph with Historical Median and Percentile Classes
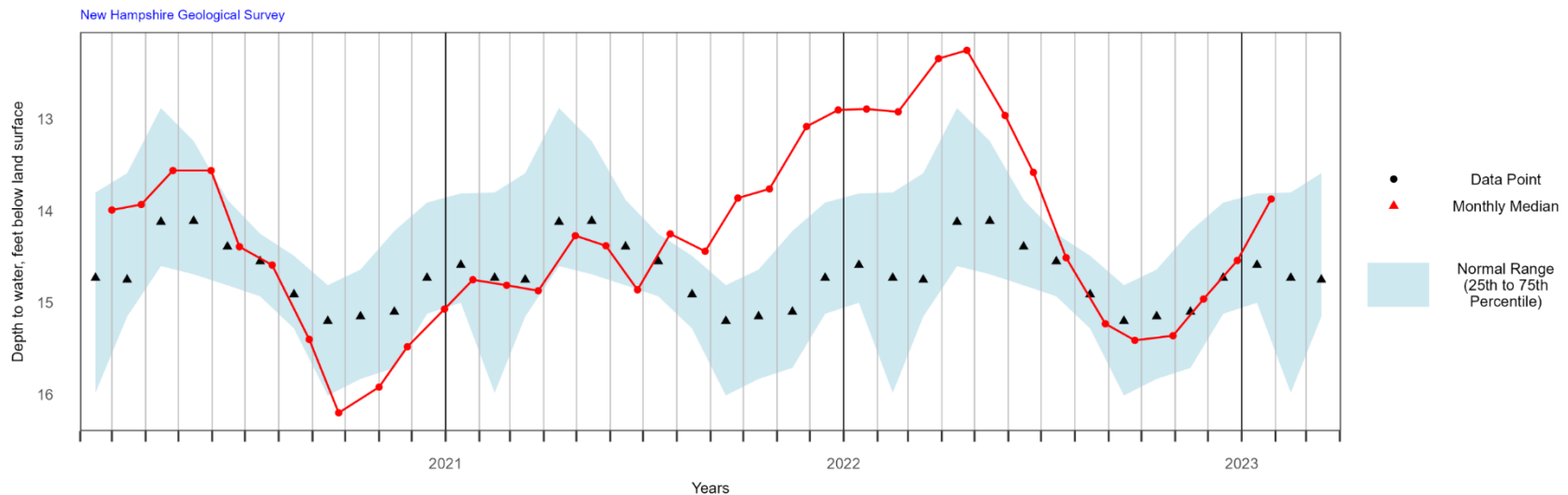
New Hampshire Geological Survey

Period of Record Monthly Statistics for RGWB-01
Depth to water, feet below land surface
Most recent depth to water in RGWB-01: 13.87 feet on 2023-01-28

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.85	16.65	15.00	14.59	13.81	12.42	11.95	14
Feb	16.83	16.83	15.98	14.73	13.80	12.92	12.92	8
Mar	16.26	16.04	15.15	14.75	13.59	12.33	12.32	13
Apr	15.85	15.76	14.60	14.12	12.88	12.05	11.97	12
May	15.64	15.42	14.69	14.11	13.24	12.27	11.81	13
Jun	16.17	15.72	14.81	14.39	13.88	13.44	13.34	13
Jul	16.65	15.99	14.93	14.55	14.25	13.62	13.11	14
Aug	17.24	16.62	15.28	14.91	14.49	13.93	13.52	14
Sep	17.64	17.07	16.01	15.20	14.81	14.20	13.86	13
Oct	18.00	17.43	15.83	15.15	14.64	13.40	13.16	13
Nov	17.60	17.10	15.71	15.10	14.22	12.50	11.93	14
Dec	17.27	16.91	15.12	14.73	13.91	12.41	11.93	14

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS
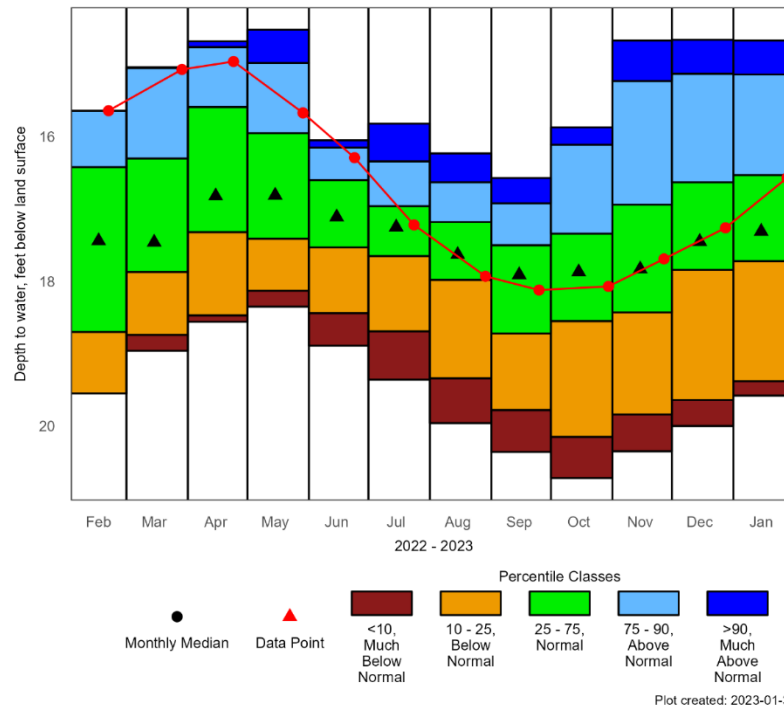
Plot created: 2023-01-30

RGWB-01: Rindge, NH Bedrock Well, Deep Couplet Member
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Plot created: 2023-01-30

RGWB-02: Rindge, NH Bedrock Well, Shallow Couplet Member
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

- ● Monthly Median
- ▲ Data Point
- <10, Much Below Normal
- 10 - 25, Below Normal
- 25 - 75, Normal
- 75 - 90, Above Normal
- >90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for RGWB-02
Depth to water, feet below land surface
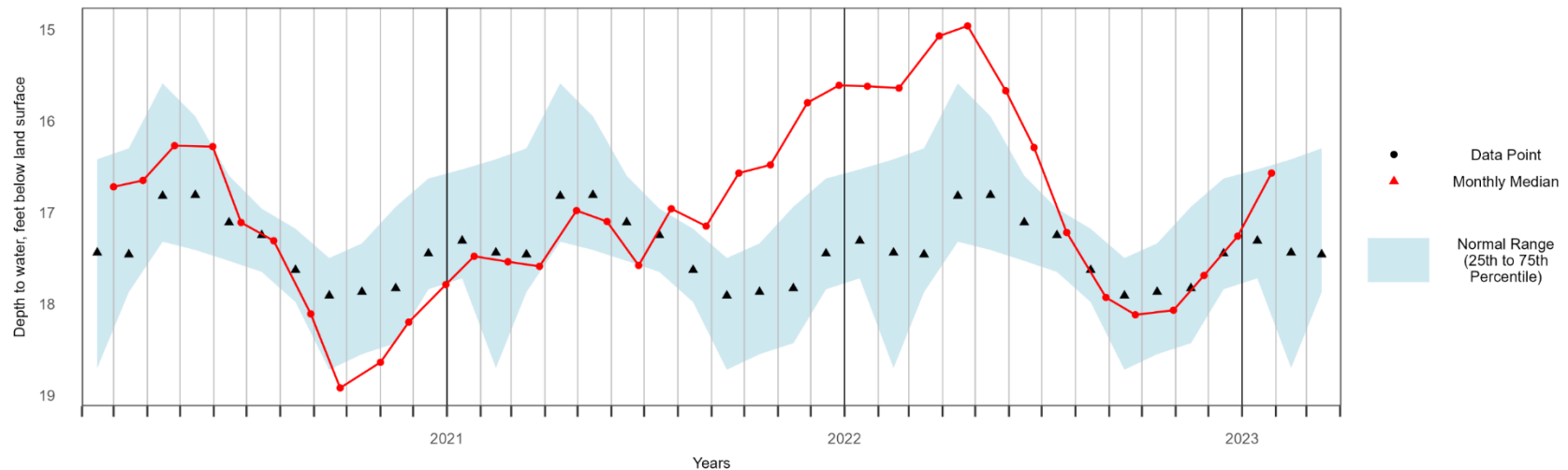Most recent depth to water in RGWB-02: 16.57 feet on 2023-01-28

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	19.58	19.38	17.72	17.31	16.53	15.14	14.67	14
Feb	19.55	19.55	18.70	17.44	16.42	15.64	15.64	8
Mar	18.96	18.74	17.87	17.46	16.30	15.05	15.04	13
Apr	18.56	18.47	17.32	16.82	15.59	14.76	14.68	12
May	18.35	18.13	17.41	16.81	15.95	14.98	14.52	13
Jun	18.89	18.44	17.53	17.11	16.60	16.15	16.05	13
Jul	19.36	18.69	17.65	17.25	16.96	16.34	15.82	14
Aug	19.96	19.34	17.98	17.63	17.18	16.63	16.23	14
Sep	20.36	19.78	18.72	17.91	17.50	16.92	16.57	13
Oct	20.72	20.15	18.55	17.87	17.34	16.11	15.87	13
Nov	20.35	19.84	18.43	17.83	16.94	15.23	14.67	14
Dec	20.00	19.64	17.84	17.45	16.63	15.13	14.66	14

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

RGWB-02: Rindge, NH Bedrock Well, Shallow Couplet Member
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

- ● Data Point
- ▲ Monthly Median
- Normal Range (25th to 75th Percentile)
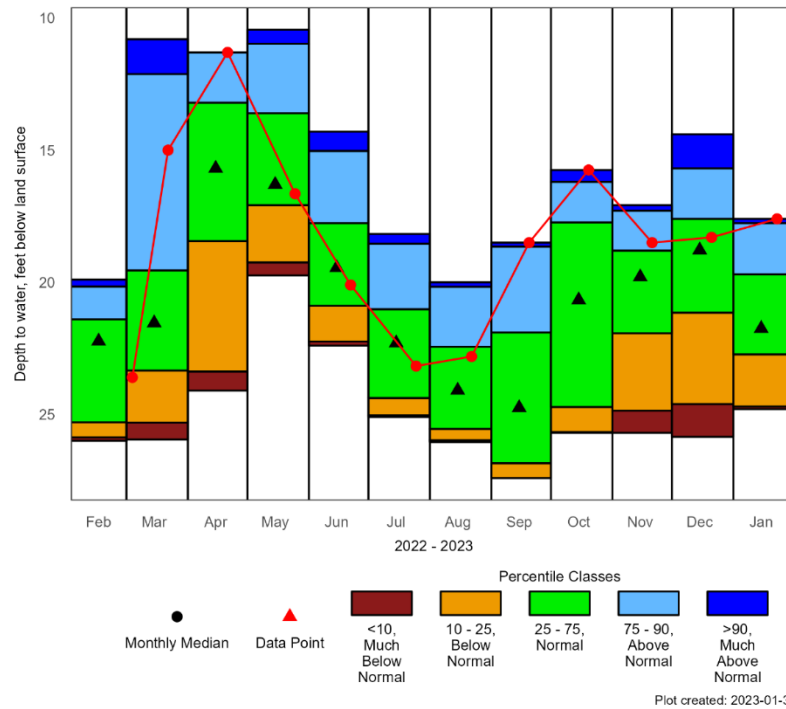
Plot created: 2023-01-30

SOWB-02: Stewartstown, NH Bedrock Well, Shallow Couplet Member
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Depth to water, feet below land surface

2022 - 2023

Percentile Classes

- Monthly Median
- Data Point
- <10, Much Below Normal
- 10 - 25, Below Normal
- 25 - 75, Normal
- 75 - 90, Above Normal
- >90, Much Above Normal

Plot created: 2023-01-30

Period of Record Monthly Statistics for SOWB-02
Depth to water, feet below land surface
Most recent depth to water in SOWB-02: 17.6 feet on 2023-01-23

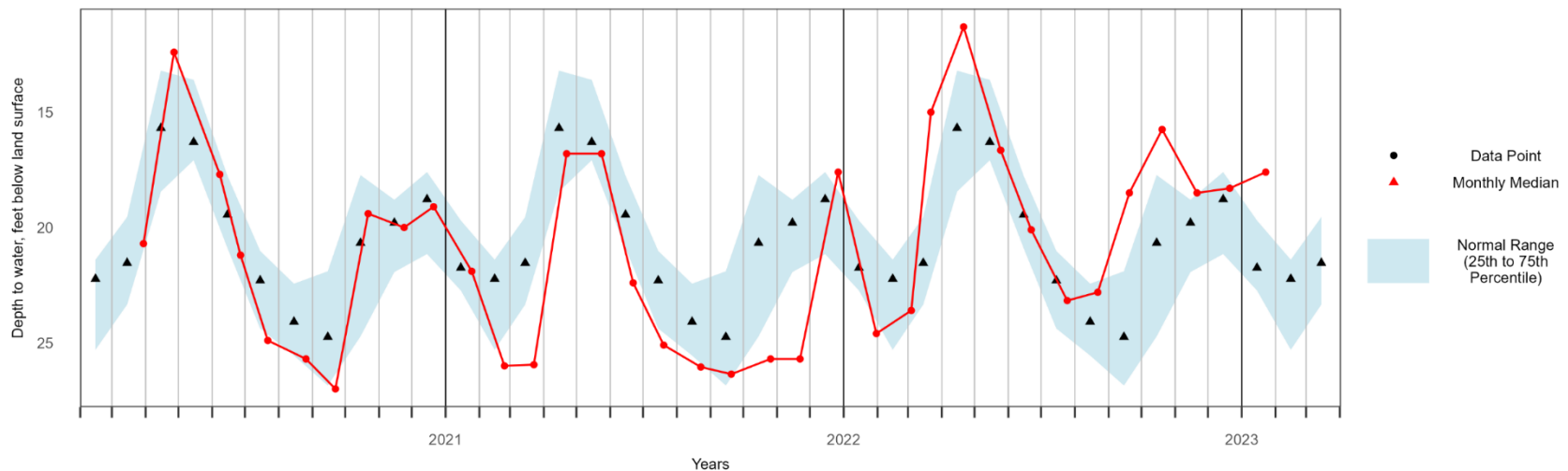| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	24.80	24.70	22.73	21.75	19.70	17.76	17.60	14
Feb	26.00	25.87	25.30	22.23	21.40	20.16	19.90	11
Mar	25.95	25.31	23.34	21.54	19.55	12.12	10.80	12
Apr	24.10	23.38	18.44	15.69	13.20	11.30	11.30	13
May	19.74	19.25	17.08	16.30	13.60	10.97	10.44	11
Jun	22.40	22.24	20.89	19.45	17.76	15.03	14.30	13
Jul	25.10	25.04	24.38	22.30	21.02	18.54	18.17	13
Aug	26.05	25.98	25.55	24.09	22.44	20.17	20.00	14
Sep	27.41	27.41	26.85	24.75	21.90	18.65	18.50	14
Oct	25.70	25.67	24.72	20.67	17.73	16.20	15.75	12
Nov	25.70	24.86	21.93	19.80	18.80	17.29	17.08	13
Dec	25.85	24.61	21.15	18.78	17.60	15.69	14.40	14

Table created: 2023-01-30

Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

SOWB-02: Stewartstown, NH Bedrock Well, Shallow Couplet Member
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Depth to water, feet below land surface

Years

- Data Point
- Monthly Median
- Normal Range (25th to 75th Percentile)

Plot created: 2023-01-30