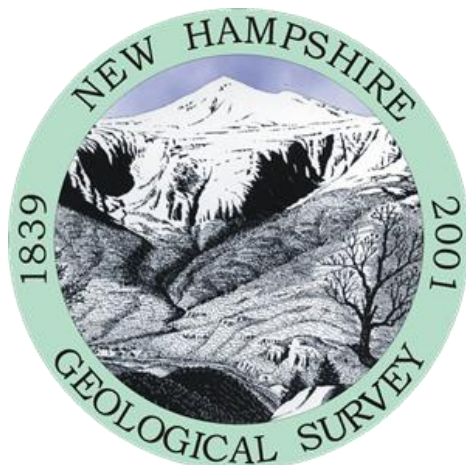# New Hampshire Groundwater Level Monitoring
November 2023

New Hampshire Geological Survey
29 Hazen Drive, PO Box 95
Concord, New Hampshire 03302-0095

December 6, 2023

NEW HAMPSHIRE GROUNDWATER CONDITIONS SUMMARY

Temperature and Precipitation. New Hampshire's precipitation and average temperature were both below normal[1] for the month of November 2023. The State-wide average temperature ranged from -1°F to more than -3°F below normal for November 2023, according to the monthly departure from normal temperature ACIS Climate Map provided by the High Plains Regional Climate Center (HPRCC). The State-wide mean precipitation for November 2023 was 55% of normal according to the Quantitative Precipitation Estimates (QPE) provided by the National Weather Service Advanced Hydrologic Prediction Service (AHPS). The below normal State-wide mean precipitation recorded in November 2023 continues the dry trend observed in October 2023. Most of New Hampshire received between 25% and 75% of normal monthly precipitation amounts in November 2023, as shown in Figure 1. The exceptions were in the central White Mountains region and in a small portion of Belknap County, which received 75% to 90% of normal precipitation. State-wide percent of normal November precipitation in New Hampshire in November 2023 ranged from a low of 32% of normal to a high of 88% of normal. The State-wide mean ± std. dev. percent normal monthly precipitation for November 2023 was 55% ± 10%. Figure 1 shows the distribution of November 2023 percent of normal monthly precipitation received across New Hampshire, as reported by the QPE from AHPS.

Drought. According to the most recent U.S. Drought Monitor map for New Hampshire released on November 30, 2023, no part of the State of New Hampshire is currently designated as Abnormally Dry (D0) or greater conditions. Figure 2 shows the absence of currently 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. Where well "couplets" were installed in the same aquifer as paired wells at one monitoring site or in one town with the screened interval of the well open in different depth intervals, the wells are referred to as the "shallow" and "deep" overburden or bedrock well.

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).

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

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

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 November 20 and 30, 2023, show the monthly status (percentile class) of the most recent groundwater levels vary across the State of New Hampshire from Below Normal (>10th to 25th Percentile) to Above Normal (>75th to 90th Percentile) levels, as indicated in Tables 1 and 2 an in the below histogram.

- Below Normal (>10th to 25th Percentile) groundwater levels were recorded in 5 wells: both overburden wells in Albany, and the overburden wells in Campton, Lancaster, and Lisbon.
- Normal (>25th to 75th Percentile) groundwater levels were recorded in 14 wells: both overburden wells in Concord, the overburden wells in Greenfield, Nashua, New Durham, and New London, both overburden wells in Newport, both bedrock wells in Concord, the shallow bedrock well in East Kingston, the bedrock wells in Hooksett and Northwood, and the shallow bedrock well in Stewartstown.
- Above Normal (>75th to 90th Percentile) groundwater levels were recorded in 8 wells: the overburden wells in Deerfield, Epping, Franklin, and Ossipee, the bedrock well in Deerfield, the deep bedrock well in East Kingston, and both bedrock wells in Rindge.
- For the 1 well with POR less than 10 years and greater than 1 year for November: the most recent measurements in the overburden well in Barrington (BBW-53) is above the median of levels recorded in November.

NHGS Groundwater Monitoring Network
Cumulative Well Status Histogram: November 2023
New Hampshire Geological Survey
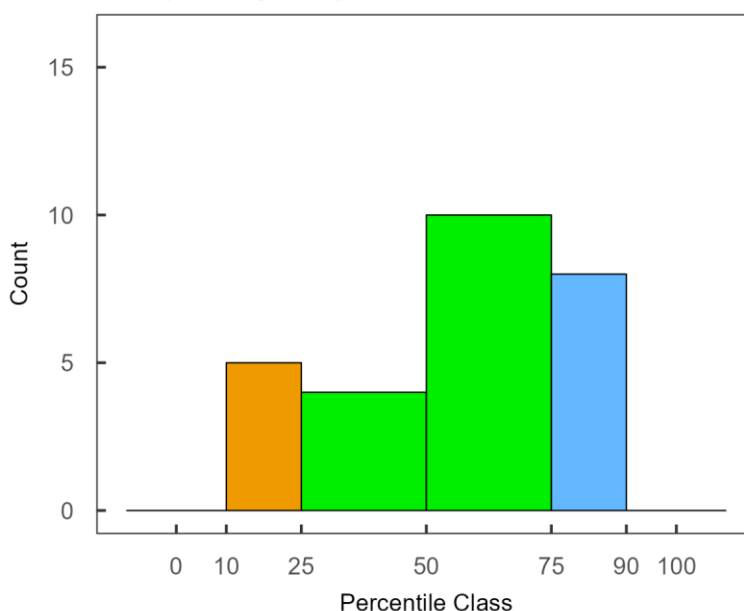
Plot created: 2023-12-06

REFERENCES:

- High Plains Regional Climate Center, 2023: ACIS Climate Maps. Accessed December 6, 2023, https://hprcc.unl.edu/maps.php?maps=ACISClimateMaps#
- National Weather Service, 2023: Advanced Hydrologic Prediction Service, Quantitative Precipitation Estimates. Accessed December 6, 2023, https://water.weather.gov/precip/download.php
- National Drought Mitigation Center, 2023: U.S. Drought Monitor Map for New Hampshire. Accessed December 6, 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 Application for viewing groundwater data from the NH Groundwater Level Monitoring Network. The Web Application 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 4.2.3 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 groundwater level in the Nashua well (NAW-218) had previously been affected by dams on Pennichuck Brook related to a water supply reservoir between late 2020 and the middle of 2022. It is not known if the groundwater level in NAW-218 are still being impacted by dam and/or reservoir management.

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. 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 historic groundwater level record from FKW-01 measured between 1966 and 2023 is now being associated with the nearby replacement well FKW-01R. A Pearson correlation coefficient of r = 1 was calculated for the n = 12 overlapping monthly measurements, indicating a strong linear correlation between groundwater depth measured in the two wells.

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 Level 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 November 2023 (National Weather Service – Advanced Hydrologic Prediction Service).

Figure 2. Groundwater Level 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 November 30, 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	29	6.68	2023-11-27	Below Normal	Normal	-1
ADW-15	Albany	Shallow Overburden	18.0	13.5-15.5	29	8.72	2023-11-27	Below Normal	Normal	-1
BBW-53	Barrington	Overburden	23.0	21-23	8	3.95	2023-11-30	Not Analyzed	Not Analyzed	
CBW-34	Campton	Overburden	107.0	104.6-106.6	30	13.57	2023-11-27	Below Normal	Normal	-1
CTW-73R	Colebrook	Overburden	40.0	30-40	1	18.15	2023-11-20	Not Analyzed	Not Analyzed	
CVW-02R	Concord	Overburden	60.0	56-60	56	40.60	2023-11-28	Normal	Normal	
CVW-04	Concord	Overburden	40.7	39.5-41	58	17.18	2023-11-27	Normal	Above Normal	-1
CVW-04R	Concord	Overburden	35.0	25-35	1	3.74	2023-11-28	Not Analyzed	Not Analyzed	
DDW-46	Deerfield	Overburden	47.5	45.5-47.5	31	38.76	2023-11-29	Above Normal	Above Normal	
EPW-90	Epping	Overburden	37.8	35.8-37.8	17	27.97	2023-11-29	Above Normal	Above Normal	
FKW-01R	Franklin	Overburden	38.0	28-38	56	12.13	2023-11-27	Above Normal	Above Normal	
GSW-75	Greenfield	Overburden	68.0	66-68	27	61.00	2023-11-25	Normal	Above Normal	-1
LCW-1	Lancaster	Overburden	30.0	28-30	55	2.06	2023-11-30	Below Normal	Above Normal	-2
LLW-19	Lisbon	Overburden	42.0	39.5-42	29	14.30	2023-11-27	Below Normal	Normal	-1
NAW-218	Nashua	Overburden	42.5	40.5-42.5	56	27.77	2023-11-28	Normal	Above Normal	-1
NFW-53	New Durham	Overburden	60.0	58-60	29	19.00	2023-11-27	Normal	Normal	
NLW-01	New London	Overburden	21.0	0-21	75	8.98	2023-11-28	Normal	Normal	
NPW-03	Newport	Deep Overburden	56.4	54-57	29	6.94	2023-11-28	Normal	Normal	
NPW-06	Newport	Shallow Overburden	19.3	17-19	29	7.02	2023-11-28	Normal	Normal	
OXW-38	Ossipee	Overburden	114.7	112.7-114.7	29	34.66	2023-11-27	Above Normal	Much Above Normal	-1
CVWB-01	Concord	Deep Bedrock	480.0	470-480	15	21.42	2023-11-27	Normal	Normal	
CVWB-02	Concord	Shallow Bedrock	315.0	20-315	15	16.16	2023-11-27	Normal	Normal	
DDWB-01	Deerfield	Bedrock	300.0	20-300	15	17.34	2023-11-29	Above Normal	Above Normal	
EAWB-01	East Kingston	Deep Bedrock	473.0	463-473	15	22.19	2023-11-28	Above Normal	Above Normal	
EAWB-02	East Kingston	Shallow Bedrock	323.0	70-323	14	21.01	2023-11-28	Normal	Above Normal	-1
HTW-05	Hooksett	Bedrock	102.7	44-103	58	49.01	2023-11-28	Normal	Above Normal	-1
NWWB-01	Northwood	Bedrock	167.0	?-167	12	4.36	2023-11-30	Normal	Normal	
RGWB-01	Rindge	Deep Bedrock	401.0	391-401	15	13.69	2023-11-25	Above Normal	Above Normal	
RGWB-02	Rindge	Shallow Bedrock	285.0	120-285	15	16.40	2023-11-25	Above Normal	Above Normal	
SOWB-01	Stewartstown	Deep Bedrock	453.0	443-453	13	14.19	2023-11-20	Not Analyzed	Not Analyzed	
SOWB-02	Stewartstown	Shallow Bedrock	303.0	20-303	14	19.90	2023-11-20	Normal	High	-3

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 monitoring site.

Percentile Class	Status	Current Month Count: Late November 2023	Prior Month Count: Late October 2023	Monthly Class Change
Above highest monthly median	High	0	1	-1
>90	Much Above Normal	0	1	-1
75 – 90	Above Normal	8	13	-5
25 – 50	Normal	14	12	+2
10 – 25	Below Normal	5	0	+5
<10	Much Below Normal	0	0	-
Below lowest monthly median	Low	0	0	-
<10yr Period of Record, Not Analyzed or Not Measured		4	4	-

November 2023 Site Percentile Class Deteriorations	15
November 2023 Site Percentile Class Improvements	0

ADW-14: Albany, NH Overburden Well, Deep Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes
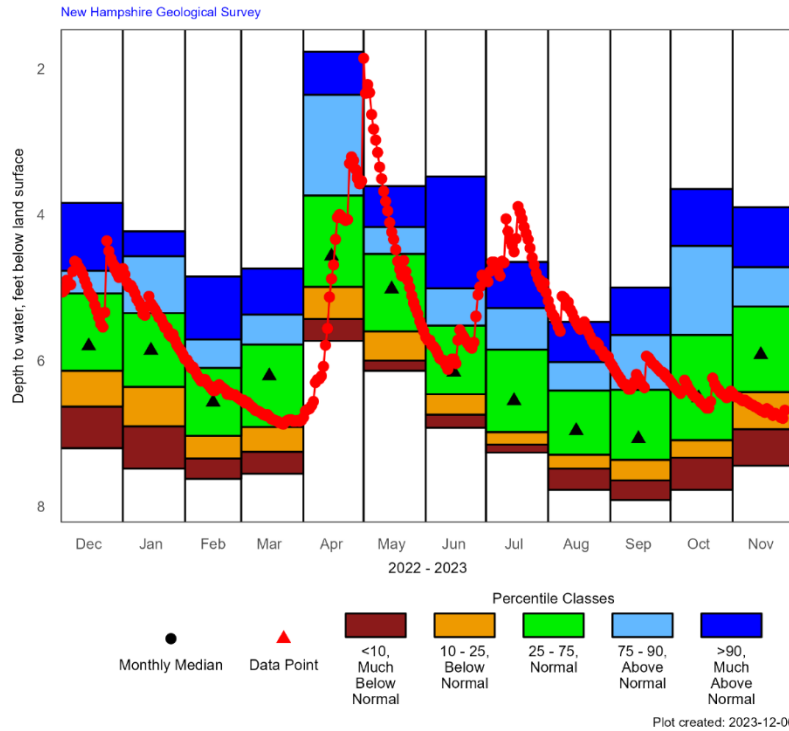
Period of Record Monthly Statistics for ADW-14
Depth to water, feet below land surface
Most recent depth to water in ADW-14: 6.68 feet on 2023-11-27

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	5.35	4.57	4.23	28
Feb	7.62	7.34	7.03	6.57	6.10	5.71	4.85	28
Mar	7.55	7.25	6.91	6.21	5.78	5.37	4.74	27
Apr	5.73	5.43	4.99	4.57	3.74	2.36	1.77	29
May	6.14	6.00	5.60	5.02	4.54	4.17	3.61	28
Jun	6.92	6.74	6.46	6.16	5.52	5.01	3.48	28
Jul	7.26	7.15	6.98	6.55	5.85	5.28	4.65	28
Aug	7.77	7.48	7.29	6.96	6.41	6.02	5.47	29
Sep	7.91	7.64	7.36	7.07	6.40	5.65	5.00	29
Oct	7.77	7.33	7.09	6.51	5.65	4.43	3.65	28
Nov	7.44	6.94	6.43	5.92	5.26	4.72	3.90	29
Dec	7.20	6.63	6.14	5.80	5.08	4.77	3.84	28

Table created: 2023-12-06

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: 2023-12-06

ADW-14: Albany, NH Overburden Well, Deep Couplet Member

Groundwater Levels and Statistics for Past 3 Years

Plot created: 2023-12-06

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

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: 2023-12-06

Period of Record Monthly Statistics for ADW-15
Depth to water, feet below land surface
Most recent depth to water in ADW-15: 8.72 feet on 2023-11-27

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	7.22	5.88	5.80	28
Feb	9.40	9.13	8.94	8.27	7.85	7.69	6.35	28
Mar	9.28	9.14	8.70	8.19	7.64	7.02	6.01	27
Apr	7.73	7.66	6.78	6.06	4.79	3.54	2.04	29
May	8.22	7.90	7.46	6.85	5.80	4.38	3.86	28
Jun	9.00	8.78	8.43	8.15	7.34	6.74	3.72	28
Jul	9.15	9.05	8.92	8.49	7.84	7.11	6.44	28
Aug	9.55	9.31	9.15	8.80	8.38	7.56	6.29	30
Sep	9.68	9.46	9.19	9.01	8.52	7.06	6.50	29
Oct	9.46	9.23	8.90	8.47	7.31	6.04	4.42	28
Nov	9.21	8.90	8.38	7.97	7.08	6.17	4.93	29
Dec	9.02	8.49	8.10	7.82	6.79	6.38	4.60	27

Table created: 2023-12-06

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

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

Plot created: 2023-12-06

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

Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov

2022 - 2023

● Data Point   ▲ Monthly Median

Plot created: 2023-12-06

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
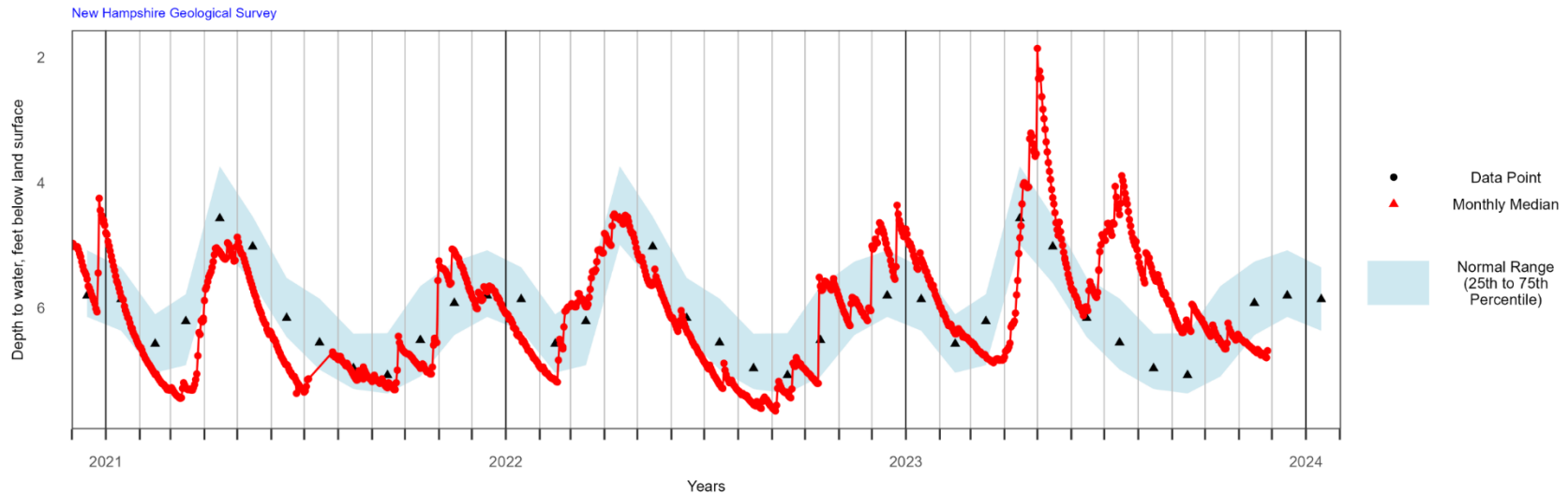
Plot created: 2023-12-06

Period of Record Monthly Statistics for CBW-34
Depth to water, feet below land surface
Most recent depth to water in CBW-34: 13.57 feet on 2023-11-27

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	13.79	13.45	13.04	12.41	12.29	10.83	27
Mar	14.25	13.70	13.13	12.39	11.91	11.32	10.64	28
Apr	12.83	12.27	11.73	11.28	10.88	9.98	9.91	28
May	12.44	12.30	12.11	11.50	11.09	10.80	10.30	29
Jun	13.41	13.07	12.89	12.55	12.07	11.21	10.80	30
Jul	13.99	13.88	13.59	13.17	12.18	11.72	11.64	28
Aug	14.46	14.36	13.94	13.64	12.98	12.23	11.68	31
Sep	14.61	14.51	14.13	13.81	13.19	12.39	12.00	29
Oct	14.73	14.16	13.84	13.44	12.30	11.97	10.57	29
Nov	14.10	13.74	13.57	12.56	12.29	11.07	10.78	30
Dec	13.73	13.33	13.01	12.57	12.05	11.52	10.07	28

Table created: 2023-12-06

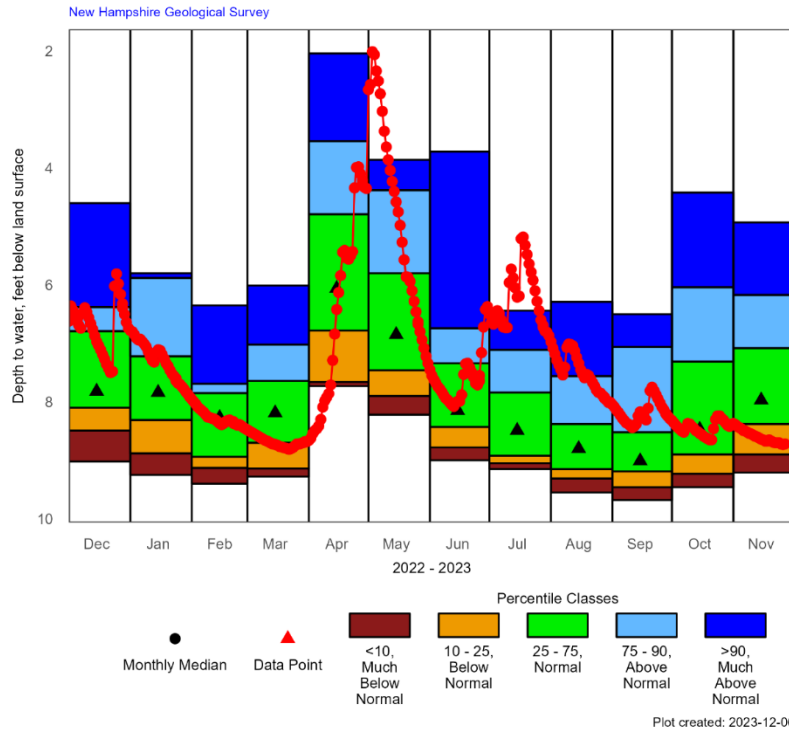Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

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)

Plot created: 2023-12-06

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

Annual Hydrograph with Historical Median and Percentile Classes
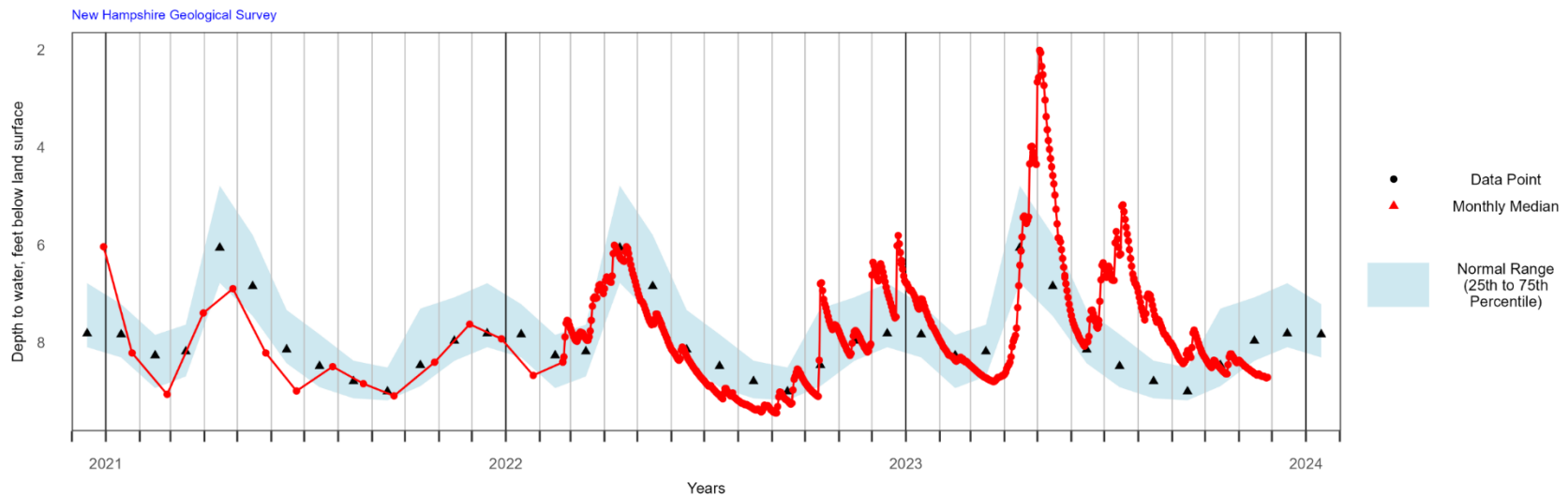
New Hampshire Geological Survey

Period of Record Monthly Statistics for CVW-02R
Depth to water, feet below land surface
Most recent depth to water in CVW-02R: 40.6 feet on 2023-11-28

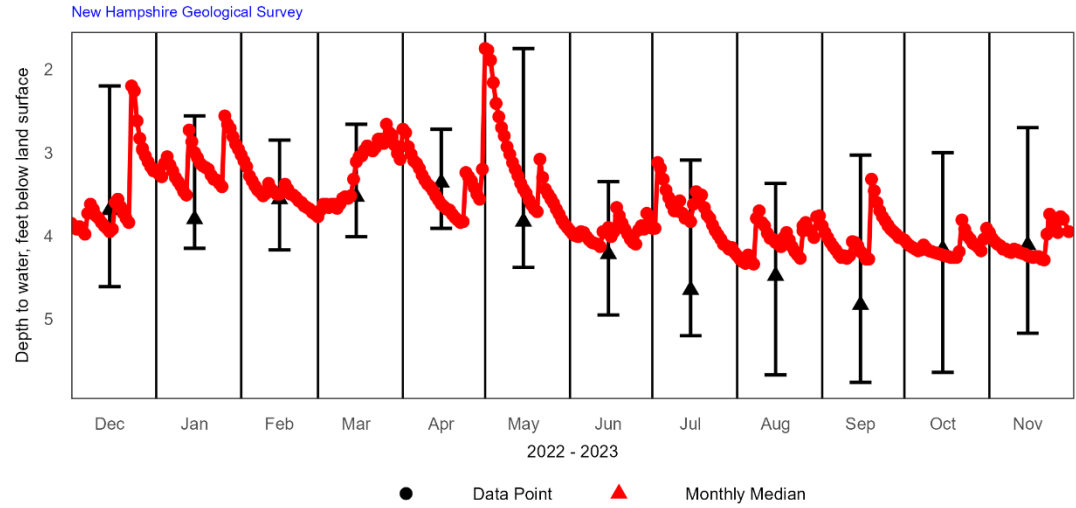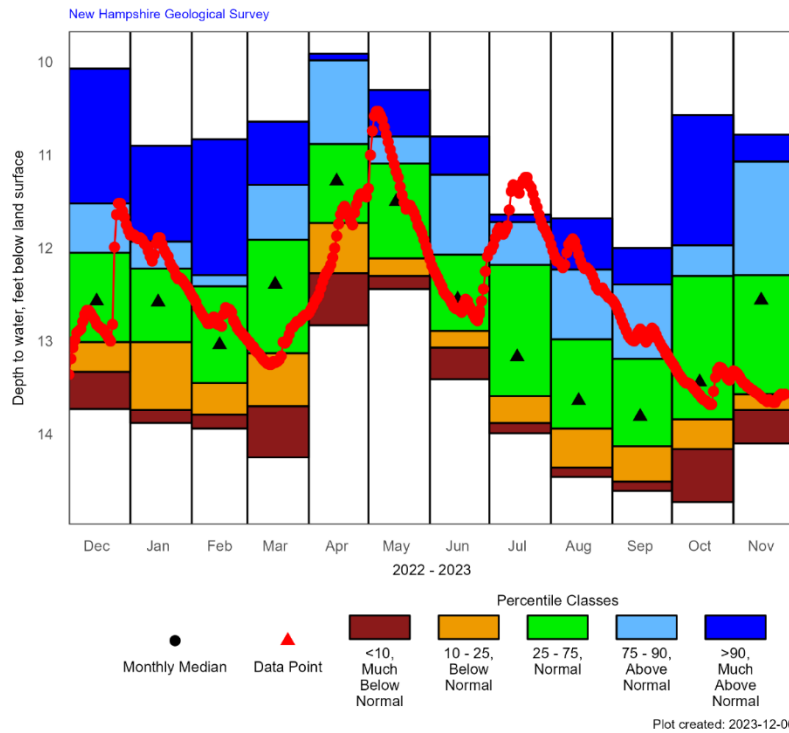| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	44.48	43.91	42.28	41.27	39.24	36.99	34.39	57
Feb	44.63	43.43	42.38	41.08	39.42	37.19	34.62	55
Mar	44.44	43.83	42.56	41.14	39.28	37.12	34.68	56
Apr	44.33	43.25	42.16	40.73	39.16	36.62	34.37	56
May	44.55	43.30	42.28	40.69	39.02	36.98	34.58	54
Jun	44.34	43.00	42.19	40.63	38.61	36.25	34.40	54
Jul	44.53	43.03	42.30	40.72	38.87	35.49	34.06	55
Aug	44.75	43.32	42.27	40.99	38.81	36.72	33.88	58
Sep	44.69	43.36	42.29	41.09	38.94	36.65	33.90	57
Oct	44.73	43.40	42.38	41.11	39.12	36.56	34.23	58
Nov	44.29	43.57	42.35	41.38	39.24	36.42	34.44	56
Dec	44.45	43.50	42.30	41.41	39.20	36.68	34.53	56

Table created: 2023-12-06

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

Plot created: 2023-12-06

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

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Plot created: 2023-12-06

CVW-04: Concord, NH Overburden Well, Shallow Couplet Member
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Percentile Classes

Monthly Median   Data Point

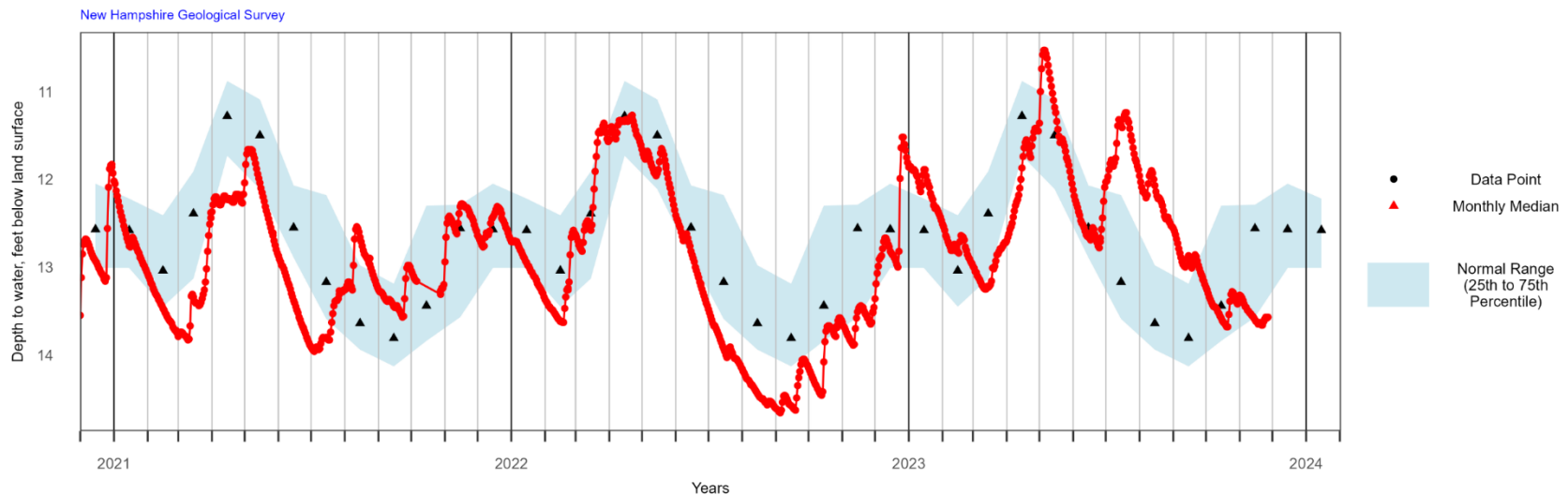| <10, Much Below Normal | 10 - 25, Below Normal | 25 - 75, Normal | 75 - 90, Above Normal | >90, Much Above Normal |

Plot created: 2023-12-06

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 2023-11-27

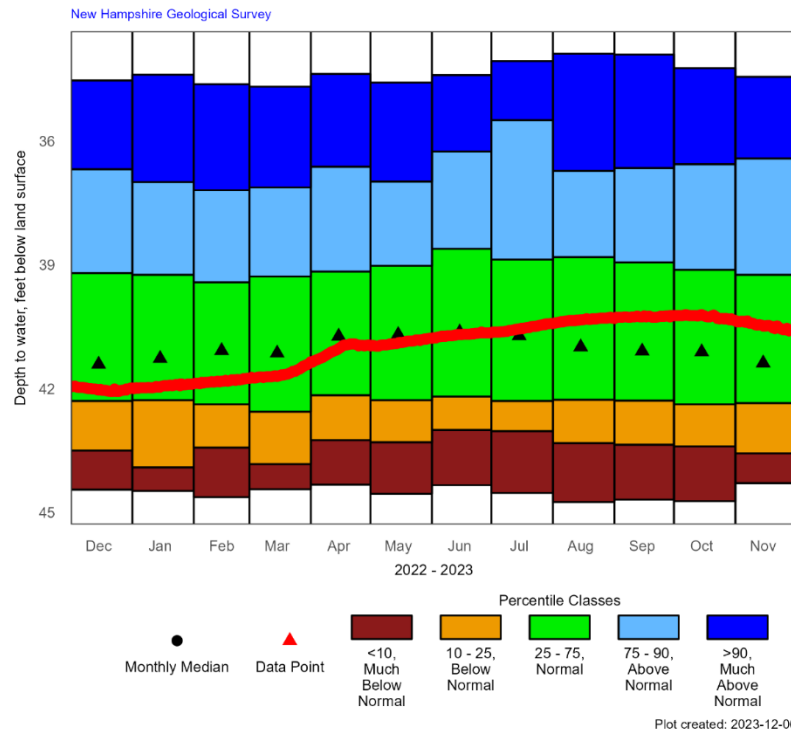| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	20.30	18.98	18.62	17.80	16.75	16.08	14.74	57
Feb	20.08	19.11	18.41	17.73	16.70	16.04	15.24	55
Mar	19.54	18.53	17.83	17.31	16.30	15.58	14.58	57
Apr	19.00	17.48	16.87	16.16	15.32	14.76	13.93	57
May	18.45	17.58	16.94	16.24	15.67	15.12	13.62	55
Jun	18.45	18.08	17.21	16.84	16.39	15.53	13.03	56
Jul	18.94	18.69	18.13	17.46	16.80	16.09	15.31	55
Aug	19.42	19.03	18.38	17.88	17.46	16.56	15.80	57
Sep	19.81	19.37	18.78	18.34	17.82	16.85	16.08	55
Oct	19.95	19.31	18.84	18.24	17.42	16.55	16.16	57
Nov	19.97	19.36	18.66	18.02	17.17	16.24	15.24	58
Dec	19.80	18.88	18.46	17.73	16.42	15.88	15.28	56

Table created: 2023-12-06

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

New Hampshire Geological Survey

Data Point

Monthly Median

Normal Range (25th to 75th Percentile)

Years

Plot created: 2023-12-06

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: 2023-12-06

Period of Record Monthly Statistics for DDW-46
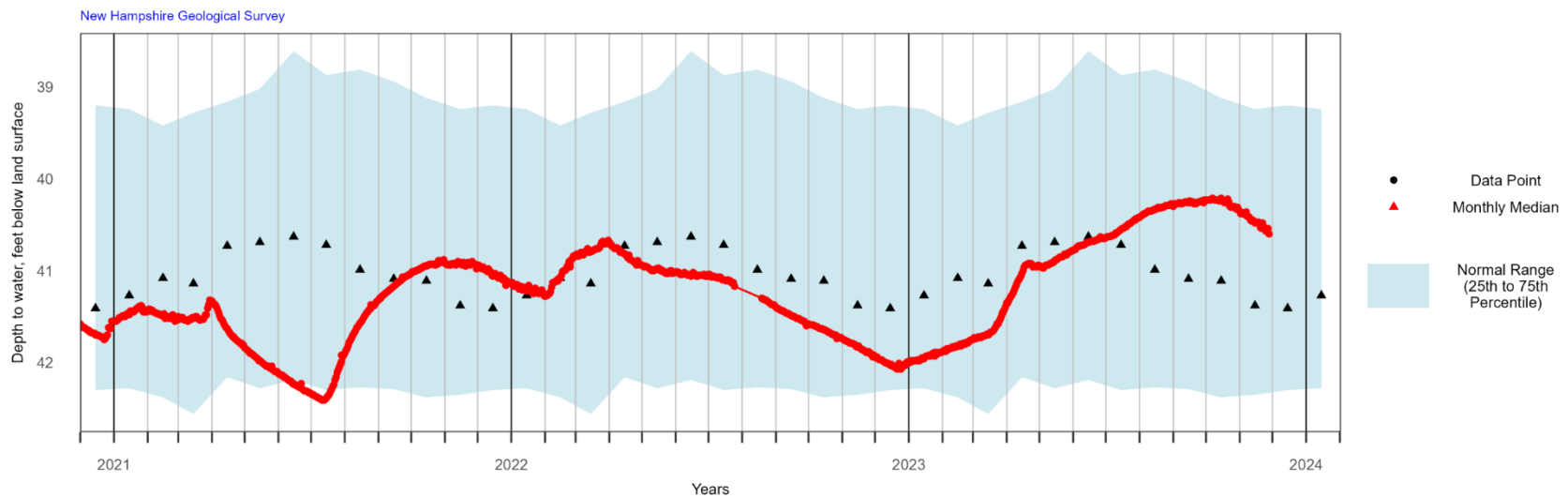Depth to water, feet below land surface
Most recent depth to water in DDW-46: 38.76 feet on 2023-11-29

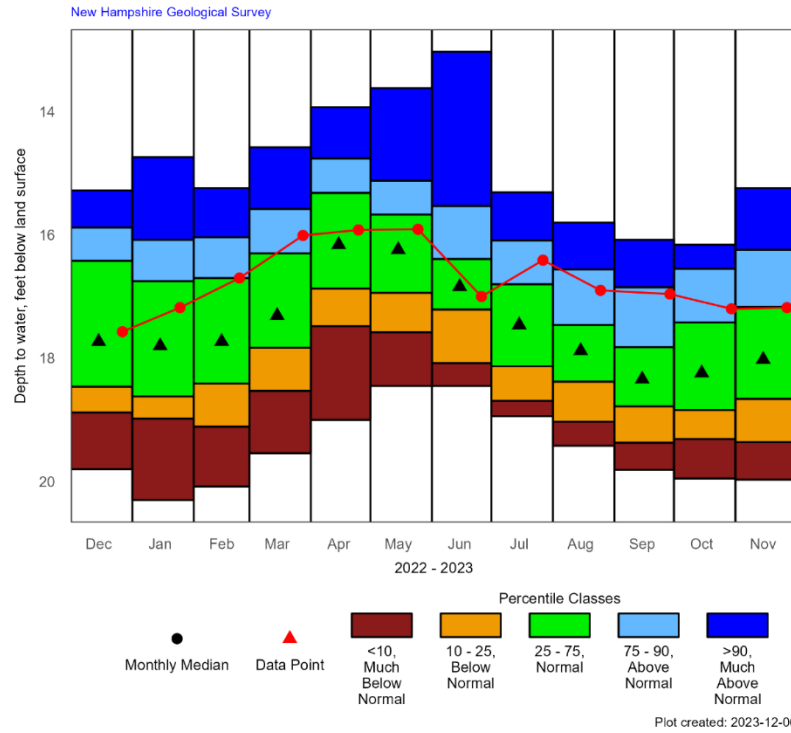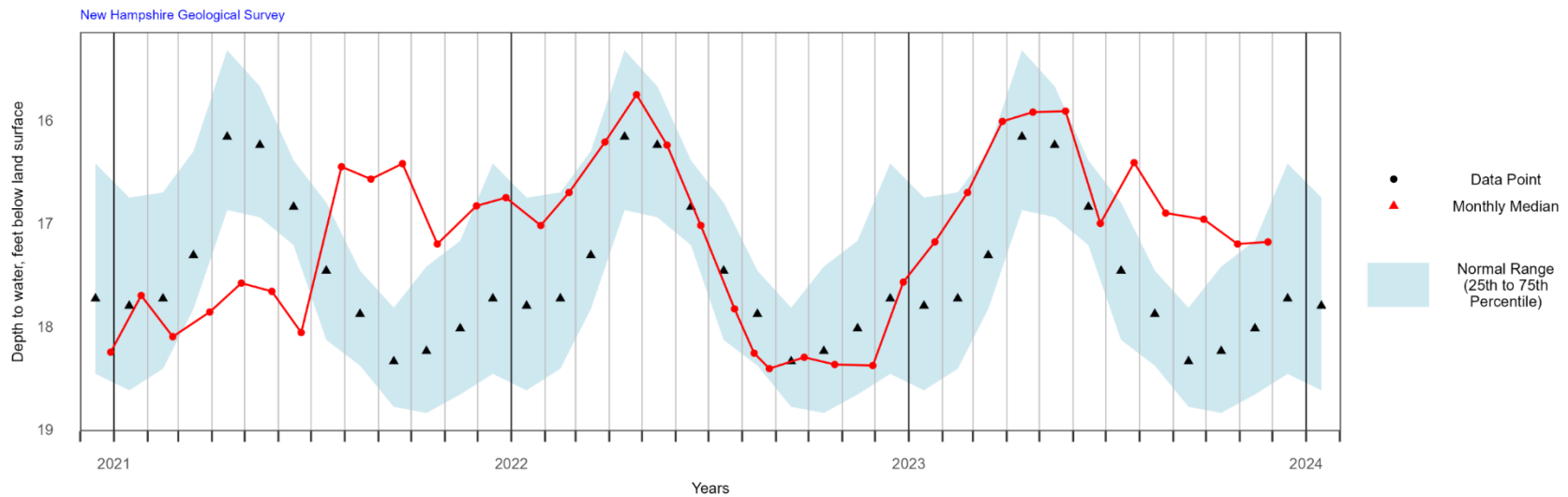| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	39.77	39.47	39.21	38.97	38.49	37.74	37.57	30
Feb	39.83	39.34	39.11	38.79	38.28	37.88	37.43	29
Mar	39.63	39.16	38.86	38.57	38.18	37.90	36.64	28
Apr	39.26	38.79	38.50	38.08	37.72	37.23	36.49	32
May	39.07	38.78	38.58	38.02	37.53	37.10	36.78	29
Jun	39.15	38.90	38.64	38.20	37.97	37.71	37.52	28
Jul	39.39	39.21	38.90	38.57	38.19	38.03	37.45	30
Aug	39.70	39.55	39.28	38.84	38.55	38.16	38.09	29
Sep	39.93	39.66	39.45	39.07	38.78	38.44	38.26	29
Oct	39.97	39.78	39.52	39.25	38.79	38.42	38.29	28
Nov	39.89	39.78	39.53	39.14	38.80	38.15	38.01	31
Dec	39.80	39.72	39.45	39.17	38.64	37.94	37.61	30

Table created: 2023-12-06

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: 2023-12-06

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

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: 2023-12-06

Period of Record Monthly Statistics for EPW-90
Depth to water, feet below land surface
Most recent depth to water in EPW-90: 27.97 feet on 2023-11-29

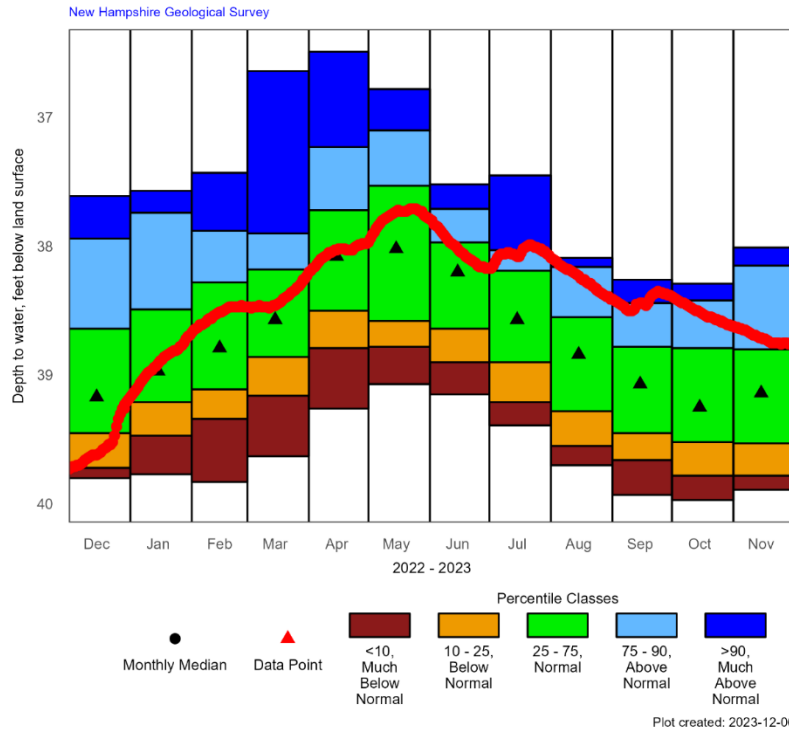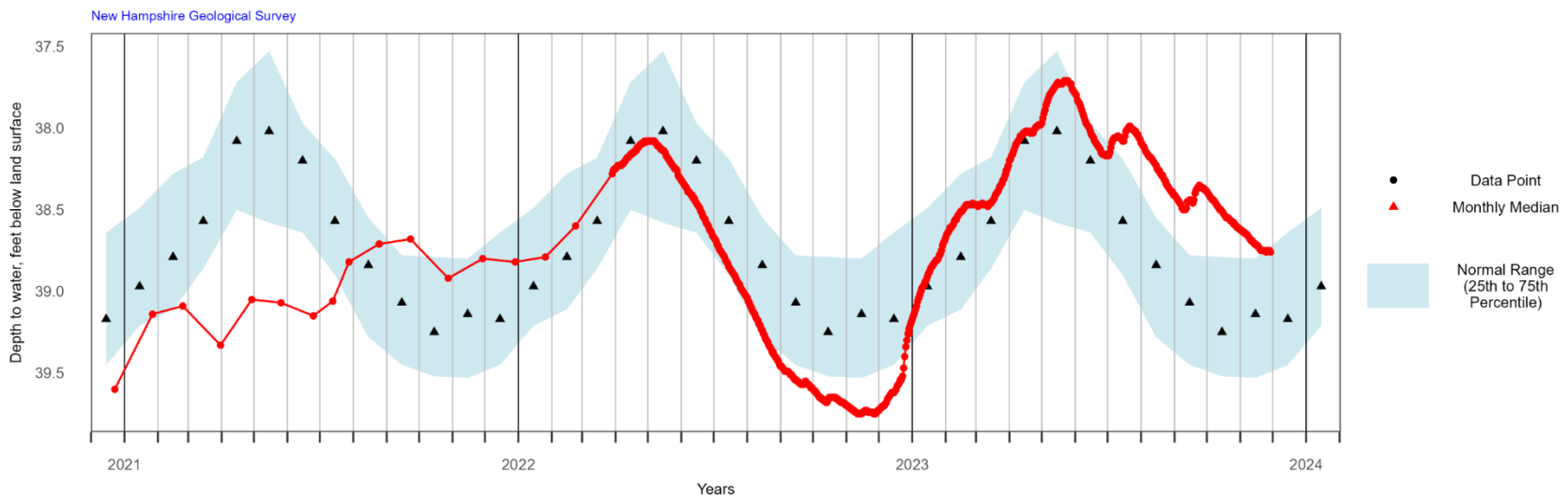| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	30.14	30.04	29.38	28.77	27.66	25.83	25.67	17
Feb	29.95	29.56	28.98	28.46	27.44	26.17	26.03	17
Mar	29.95	29.42	28.63	27.40	26.51	24.73	22.84	16
Apr	29.04	28.68	27.50	26.55	25.56	23.74	22.92	16
May	28.44	28.18	27.56	26.21	25.96	25.14	24.99	16
Jun	28.59	28.37	27.70	27.05	26.62	25.81	25.46	17
Jul	28.95	28.78	28.39	27.83	27.24	26.56	26.34	16
Aug	29.55	29.32	28.76	28.16	27.55	26.80	26.76	15
Sep	30.51	30.13	29.49	28.77	28.00	27.07	26.87	17
Oct	30.44	30.27	29.76	29.46	28.25	27.04	26.76	15
Nov	30.43	30.41	29.97	29.03	28.00	27.54	27.12	17
Dec	30.55	30.21	29.68	29.24	27.67	25.63	25.10	16

Table created: 2023-12-06

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: 2023-12-06

FKW-01R: Franklin, NH Overburden Well Replacement

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: 2023-12-06

Period of Record Monthly Statistics for FKW-01R
Depth to water, feet below land surface
Most recent depth to water in FKW-01R: 12.13 feet on 2023-11-27

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.87	15.73	14.54	13.46	11.85	10.42	8.26	54
Feb	16.81	15.75	14.70	13.44	11.39	10.52	8.29	51
Mar	16.82	15.38	14.09	12.67	11.07	10.24	8.89	55
Apr	15.61	13.99	12.29	11.14	9.61	8.67	7.28	57
May	14.94	13.27	11.94	10.68	9.45	8.44	5.78	55
Jun	14.17	13.24	12.06	11.03	9.80	9.30	6.81	55
Jul	14.50	13.53	12.76	11.35	10.79	9.68	6.94	55
Aug	15.15	14.09	13.30	12.37	11.62	10.04	8.70	56
Sep	15.83	14.58	14.00	13.07	12.33	10.71	9.98	55
Oct	16.43	15.42	14.44	13.69	12.54	11.43	9.66	56
Nov	16.30	15.70	14.58	13.59	12.74	11.12	8.65	56
Dec	16.73	15.60	14.60	13.34	12.10	10.22	8.91	52

Table created: 2023-12-06
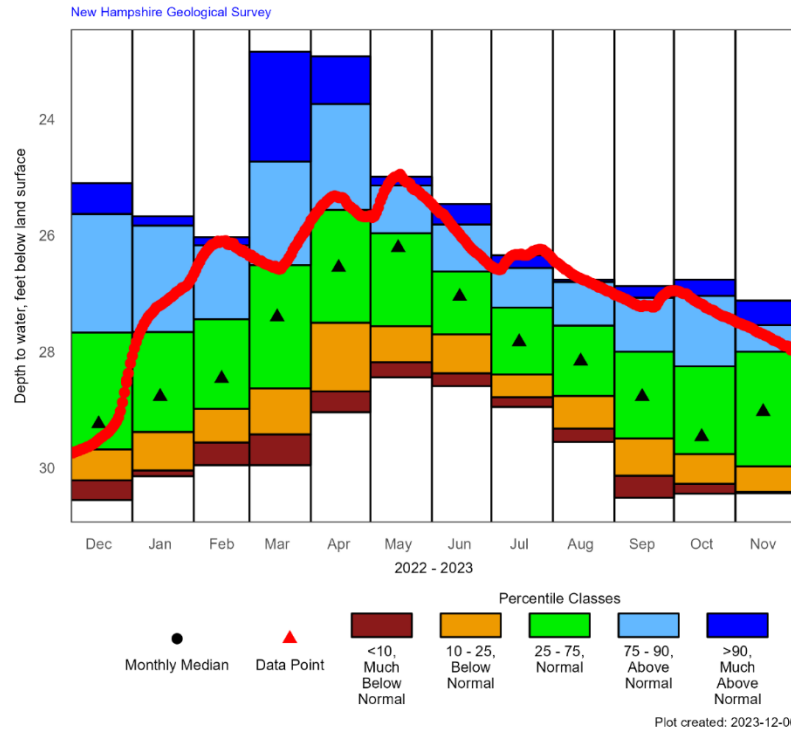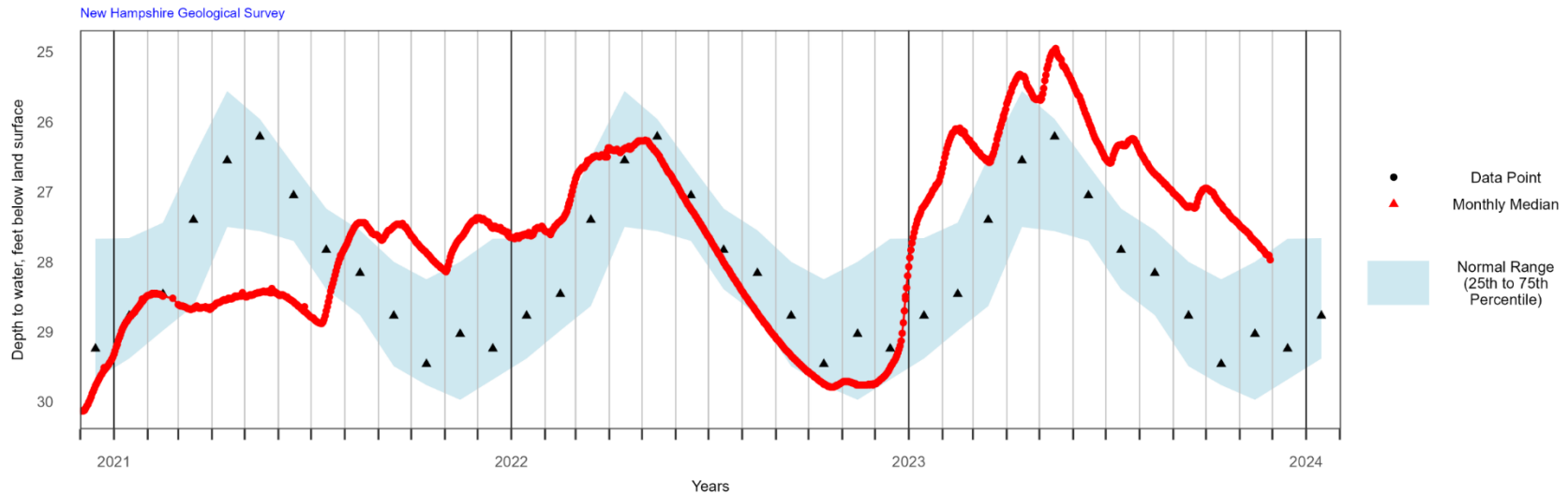
Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

FKW-01R: Franklin, NH Overburden Well Replacement

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: 2023-12-06

GSW-75: Greenfield, 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: 2023-12-06

Period of Record Monthly Statistics for GSW-75
Depth to water, feet below land surface
Most recent depth to water in GSW-75: 61 feet on 2023-11-25

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	64.91	62.98	62.39	60.09	59.29	58.58	22
Mar	65.00	64.79	62.67	62.10	59.86	58.92	58.31	27
Apr	65.21	63.60	62.20	61.28	59.42	58.62	56.11	25
May	65.18	62.96	61.80	60.44	58.85	58.27	56.61	23
Jun	64.81	62.57	61.48	60.27	58.87	57.80	56.93	25
Jul	64.28	62.73	61.24	60.30	59.26	58.46	56.61	29
Aug	64.41	63.08	61.76	60.74	59.79	57.59	57.45	27
Sep	64.68	63.55	61.95	61.12	60.43	59.18	57.55	26
Oct	66.05	63.42	62.07	61.30	60.82	59.48	58.19	26
Nov	65.35	63.91	62.97	61.98	60.50	59.87	58.90	27
Dec	65.39	64.14	63.00	62.36	60.28	59.51	58.77	27

Table created: 2023-12-06
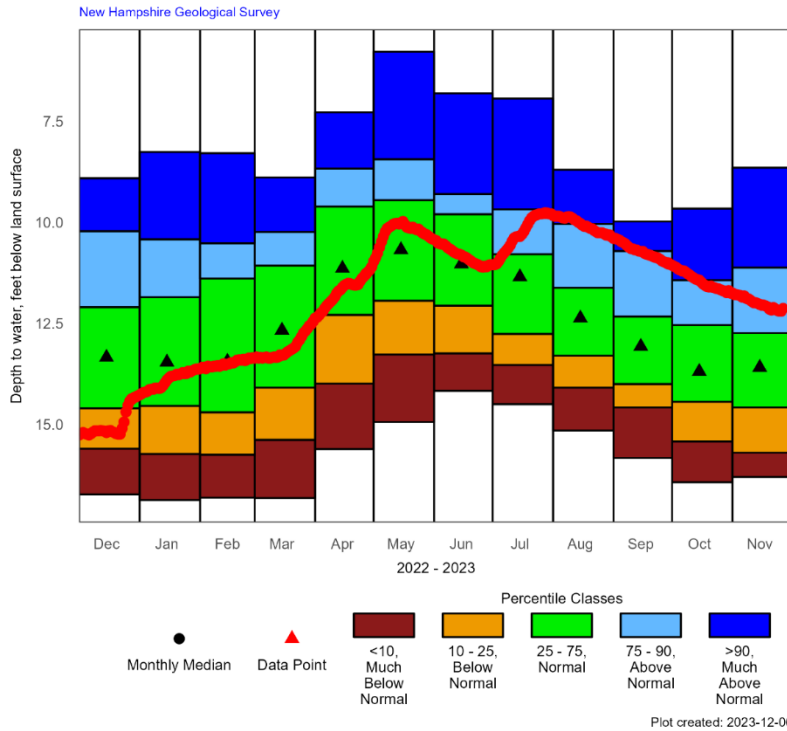
Figures and table created with R version 4.2.2 using a heavily modified version of the Hydrologic AnalySis Package (HASP) open source code by USGS

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)

Plot created: 2023-12-06

LCW-1: Lancaster, NH Overburden Well

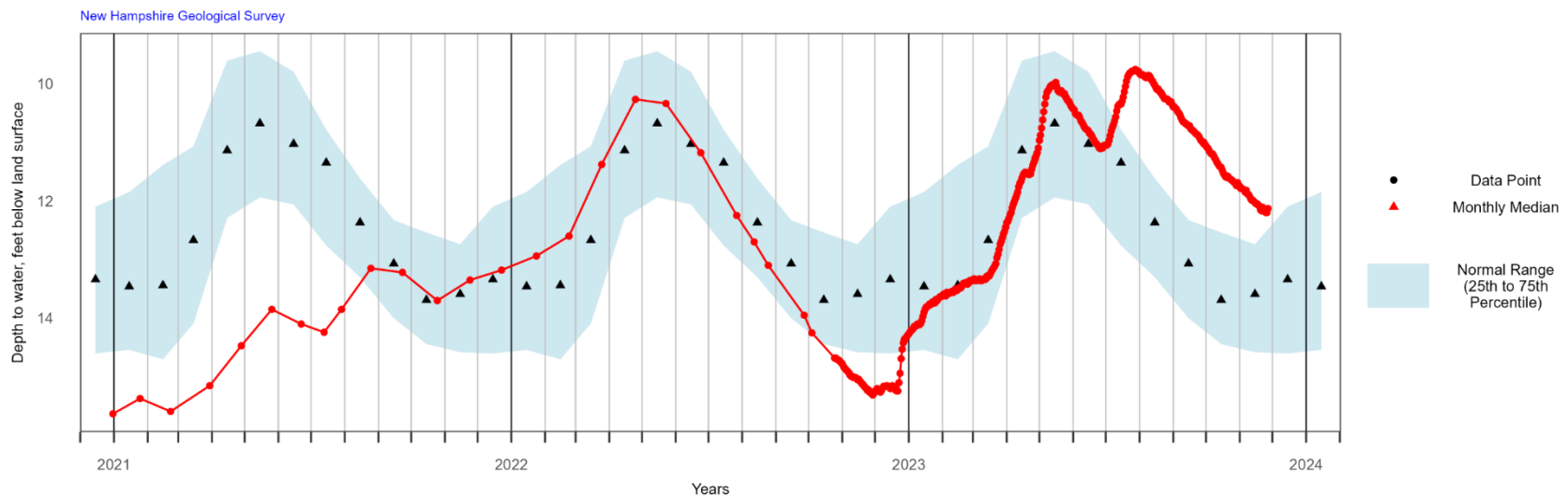### Annual Hydrograph with Historical Median and Percentile Classes
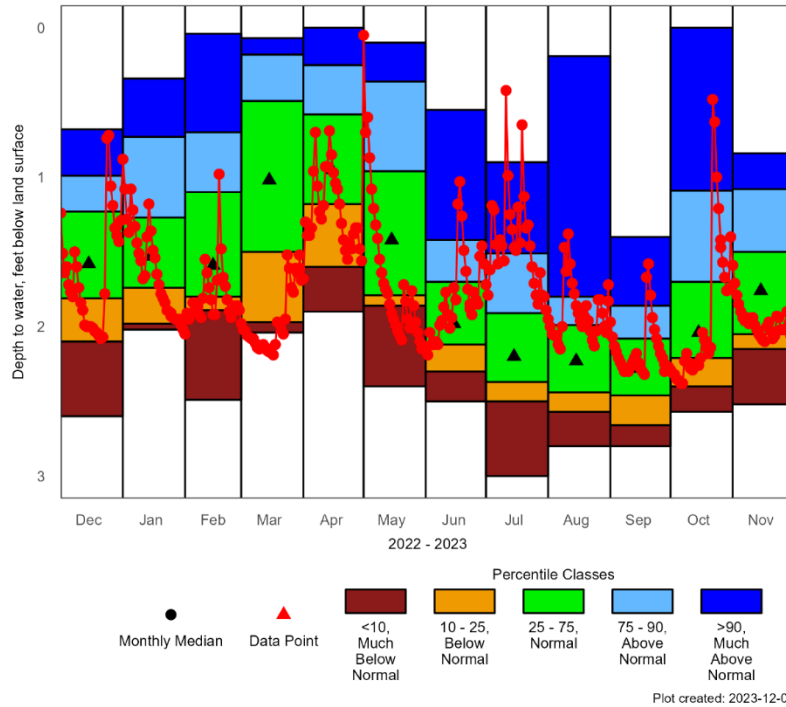
Period of Record Monthly Statistics for LCW-1
Depth to water, feet below land surface
Most recent depth to water in LCW-1: 2.06 feet on 2023-11-30

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	2.02	1.98	1.74	1.53	1.27	0.73	0.34	45
Feb	2.49	1.89	1.80	1.59	1.10	0.70	0.04	43
Mar	2.04	1.97	1.50	1.02	0.49	0.18	0.07	40
Apr	1.90	1.60	1.18	0.95	0.58	0.25	0.00	54
May	2.40	1.86	1.79	1.42	0.96	0.36	0.10	54
Jun	2.50	2.30	2.12	1.98	1.70	1.42	0.55	54
Jul	3.00	2.50	2.37	2.20	1.91	1.51	0.90	52
Aug	2.80	2.57	2.44	2.23	1.99	1.80	0.19	53
Sep	2.80	2.66	2.46	2.28	2.08	1.86	1.40	53
Oct	2.57	2.40	2.21	2.04	1.70	1.09	0.00	51
Nov	2.52	2.15	2.05	1.76	1.50	1.08	0.84	55
Dec	2.60	2.10	1.81	1.58	1.23	0.99	0.68	47

Table created: 2023-12-06

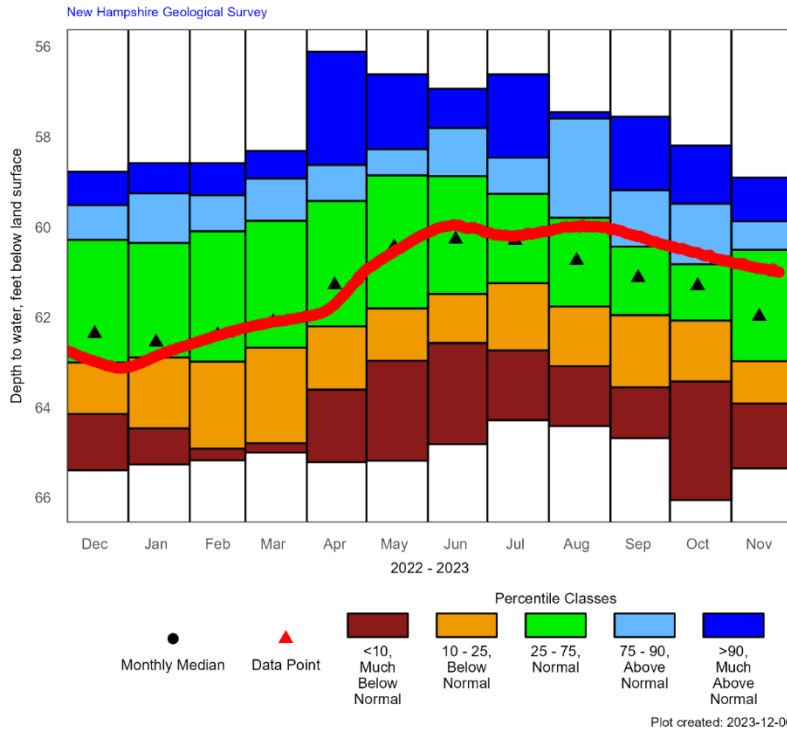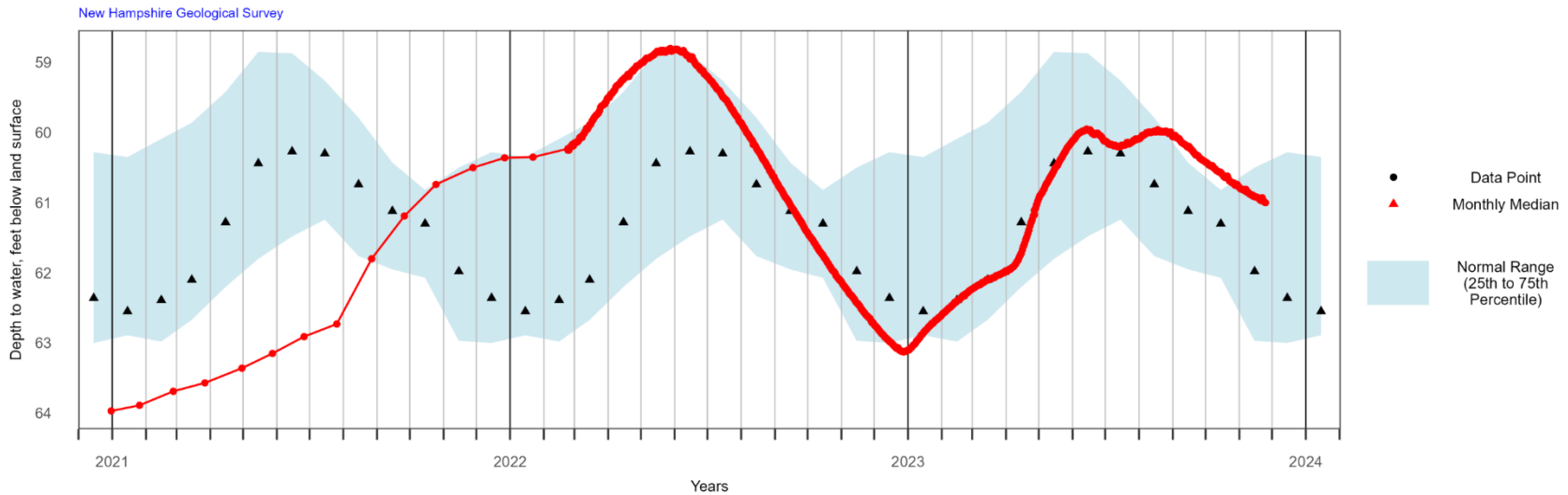Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

Plot created: 2023-12-06

LCW-1: Lancaster, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

Plot created: 2023-12-06

LLW-19: Lisbon, 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: 2023-12-06

Period of Record Monthly Statistics for LLW-19
Depth to water, feet below land surface
Most recent depth to water in LLW-19: 14.3 feet on 2023-11-27

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	14.14	13.59	13.02	12.39	11.19	10.02	27
Mar	14.16	14.03	13.60	12.96	12.24	11.13	9.40	28
Apr	14.14	13.54	13.28	12.75	12.30	11.24	10.16	29
May	14.13	13.86	13.72	13.45	12.86	12.50	12.23	29
Jun	14.68	14.51	14.34	14.16	13.68	13.21	12.89	29
Jul	15.11	14.78	14.59	14.45	14.01	13.08	12.51	30
Aug	15.27	15.02	14.80	14.66	14.24	13.95	13.22	30
Sep	15.30	14.99	14.84	14.68	14.43	13.93	12.50	30
Oct	14.98	14.84	14.70	14.32	13.30	12.78	11.61	30
Nov	14.53	14.52	14.27	14.10	13.59	12.64	11.63	29
Dec	14.70	14.19	14.02	13.58	12.42	11.46	10.98	29

Table created: 2023-12-06

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

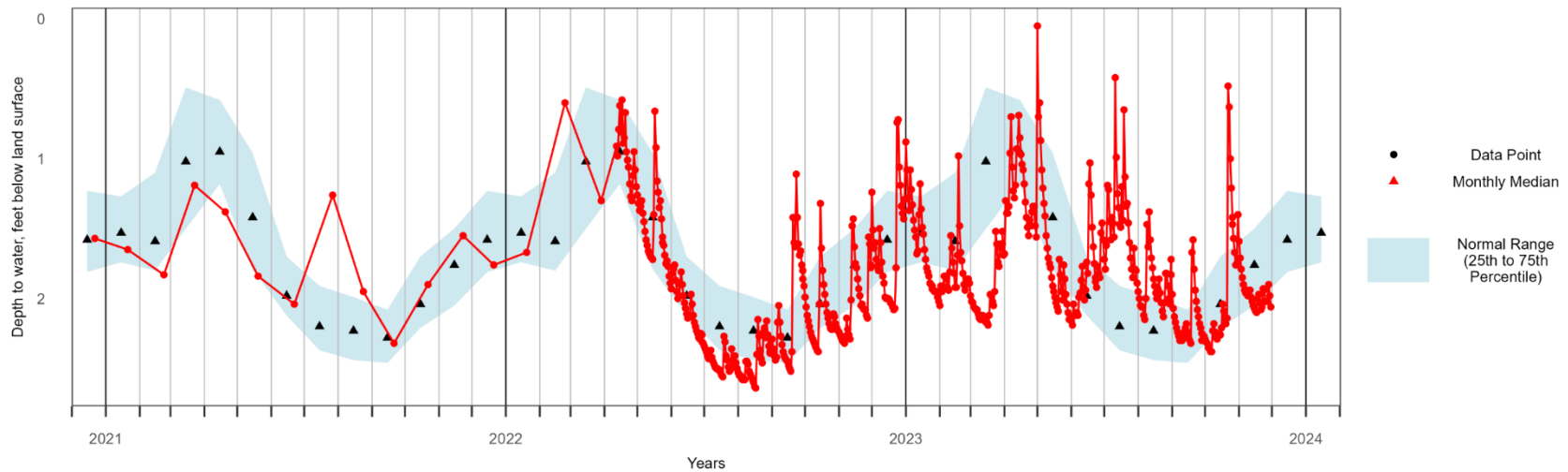## Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

● Data Point

▲ Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2023-12-06

NAW-218: Nashua, 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: 2023-12-06

Period of Record Monthly Statistics for NAW-218
Depth to water, feet below land surface
Most recent depth to water in NAW-218: 27.77 feet on 2023-11-28

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	31.87	29.49	28.45	28.20	27.65	27.02	26.31	53
Feb	31.90	28.85	28.52	28.15	27.41	26.86	24.82	57
Mar	30.68	29.27	28.32	27.52	27.00	26.49	25.54	56
Apr	29.02	28.12	27.59	27.06	26.50	26.23	24.97	53
May	29.42	27.90	27.63	27.31	26.87	26.61	24.78	54
Jun	28.82	28.30	27.96	27.75	27.26	26.81	25.98	55
Jul	29.95	28.99	28.41	27.94	27.33	26.88	26.39	55
Aug	30.30	29.84	28.81	28.40	27.92	27.53	26.62	55
Sep	31.40	29.78	29.29	28.66	28.12	27.66	26.44	56
Oct	32.04	30.31	29.29	28.68	28.26	27.47	26.67	56
Nov	33.00	29.96	29.00	28.31	27.77	27.32	26.62	56
Dec	32.44	29.10	28.65	28.18	27.49	27.14	26.08	55

Table created: 2023-12-06

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
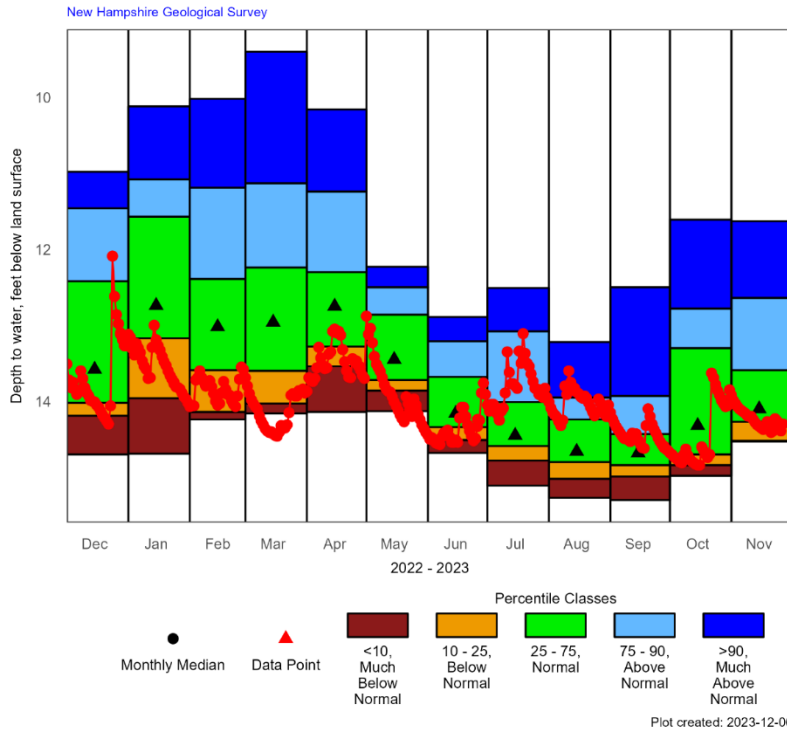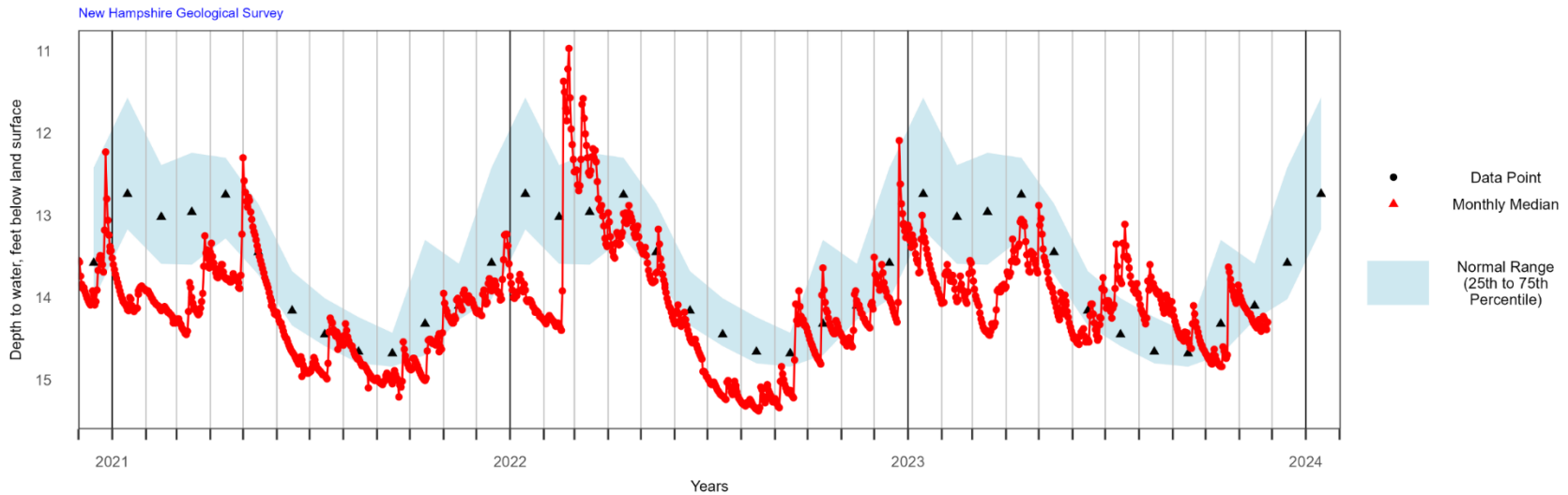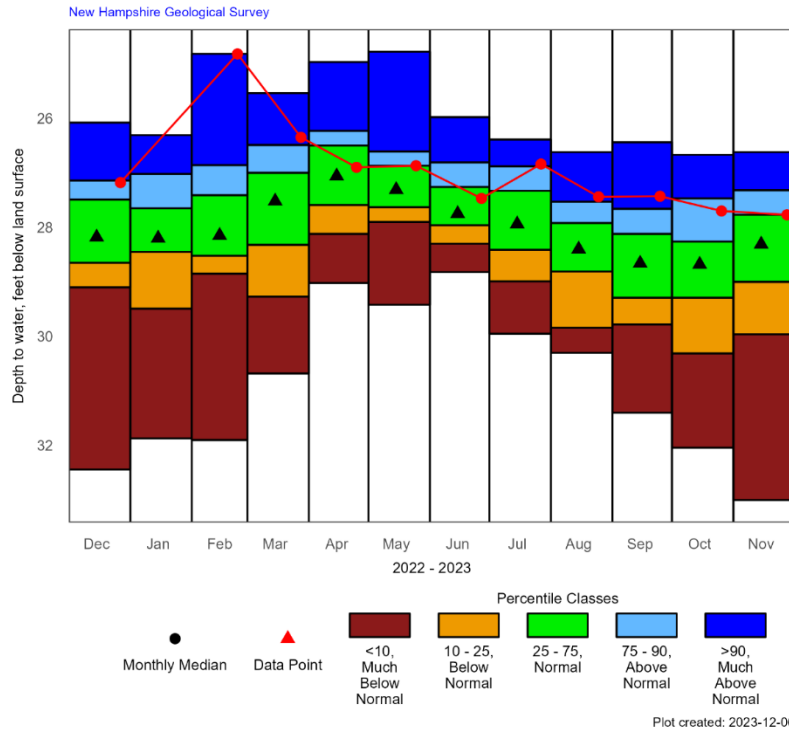
NAW-218: Nashua, NH Overburden Well

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: 2023-12-06

NFW-53: New Durham, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Depth to water, feet below land surface

Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov

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: 2023-12-06

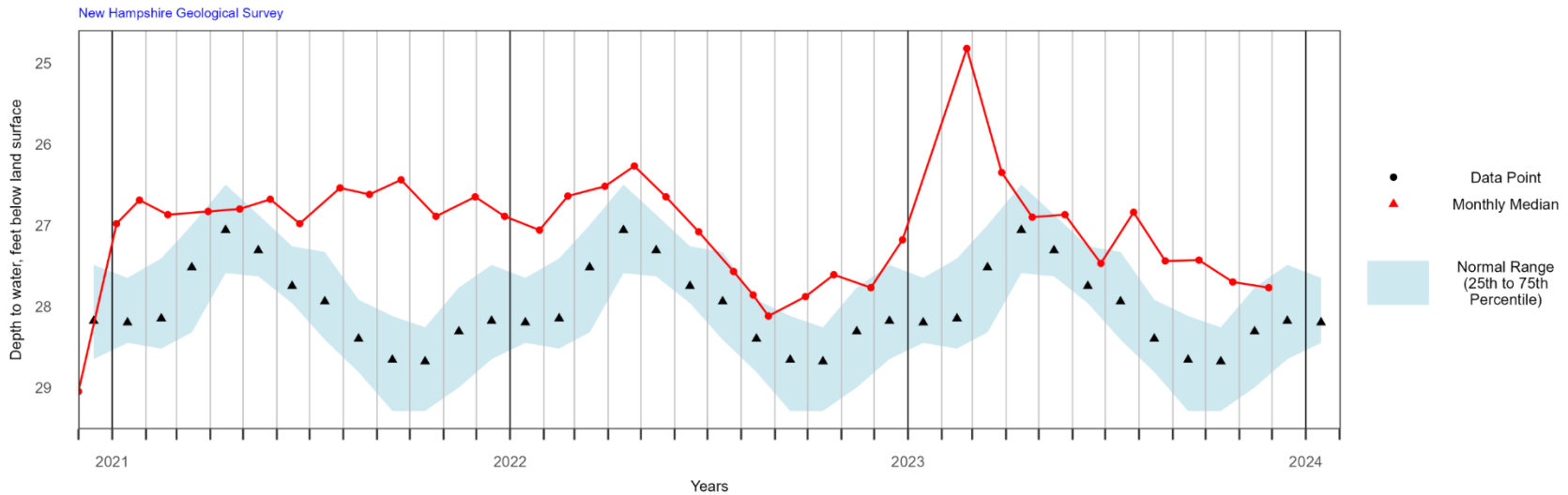Period of Record Monthly Statistics for NFW-53
Depth to water, feet below land surface
Most recent depth to water in NFW-53: 19 feet on 2023-11-27

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	19.50	19.31	19.03	18.73	18.48	18.15	29
Mar	19.74	19.33	19.06	18.69	18.47	18.05	17.93	30
Apr	20.31	19.05	18.72	18.55	18.44	18.11	17.84	30
May	19.19	19.08	18.99	18.84	18.59	18.49	17.83	29
Jun	19.44	19.39	19.32	19.17	18.88	18.74	17.67	28
Jul	19.98	19.84	19.73	19.43	19.11	18.59	18.53	28
Aug	20.58	20.29	19.98	19.60	19.24	19.04	18.84	29
Sep	20.73	20.60	20.06	19.58	19.28	19.06	18.92	29
Oct	20.79	20.48	19.77	19.47	19.04	18.81	17.98	30
Nov	20.49	19.77	19.48	19.06	18.80	18.37	18.28	29
Dec	20.17	19.42	19.22	18.93	18.77	18.50	18.09	29

Table created: 2023-12-06

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

NFW-53: New Durham, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Depth to water, feet below land surface

2021   2022   2023   2024

Years

Data Point

Monthly Median

Normal Range
(25th to 75th Percentile)

Plot created: 2023-12-06

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: 2023-12-06

Period of Record Monthly Statistics for NLW-01
Depth to water, feet below land surface
Most recent depth to water in NLW-01: 8.98 feet on 2023-11-28

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	11.74	10.01	9.18	7.23	5.61	3.67	70
Mar	13.92	10.22	8.54	6.43	4.33	3.23	1.35	72
Apr	8.93	6.79	5.52	4.60	3.67	2.71	1.22	75
May	9.87	8.34	7.61	6.58	5.46	4.43	3.27	74
Jun	12.01	10.35	9.68	8.70	7.34	6.30	4.07	74
Jul	13.51	12.30	11.42	10.66	9.20	7.74	4.32	75
Aug	14.50	13.55	12.61	11.80	10.52	9.03	5.92	74
Sep	15.55	14.64	13.70	12.80	11.27	9.57	6.55	74
Oct	15.92	15.35	14.17	12.58	10.24	7.77	2.62	75
Nov	16.58	15.07	14.32	10.22	6.84	5.28	3.78	75
Dec	16.90	15.18	10.82	7.88	5.93	4.33	3.60	70

Table created: 2023-12-06
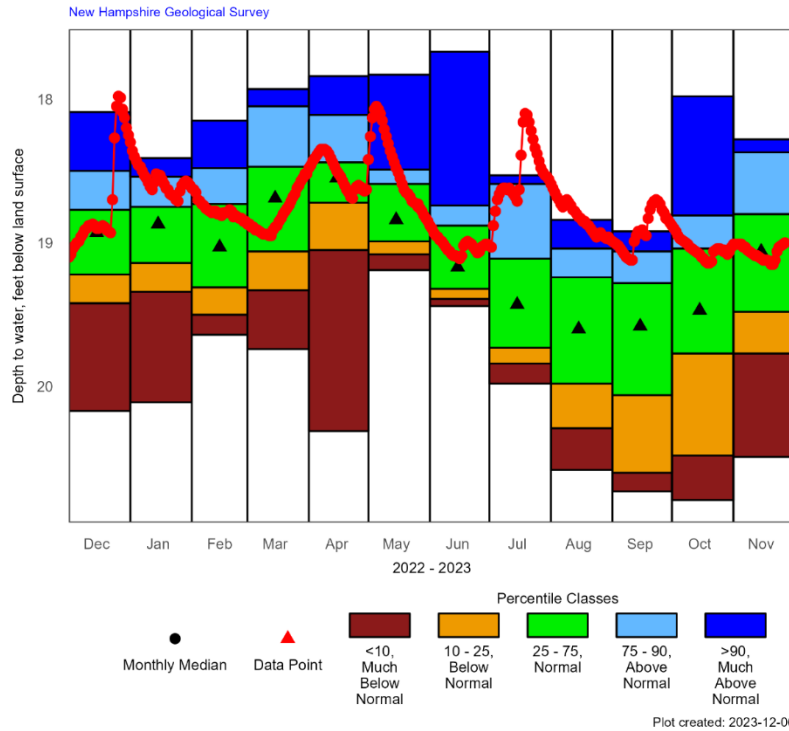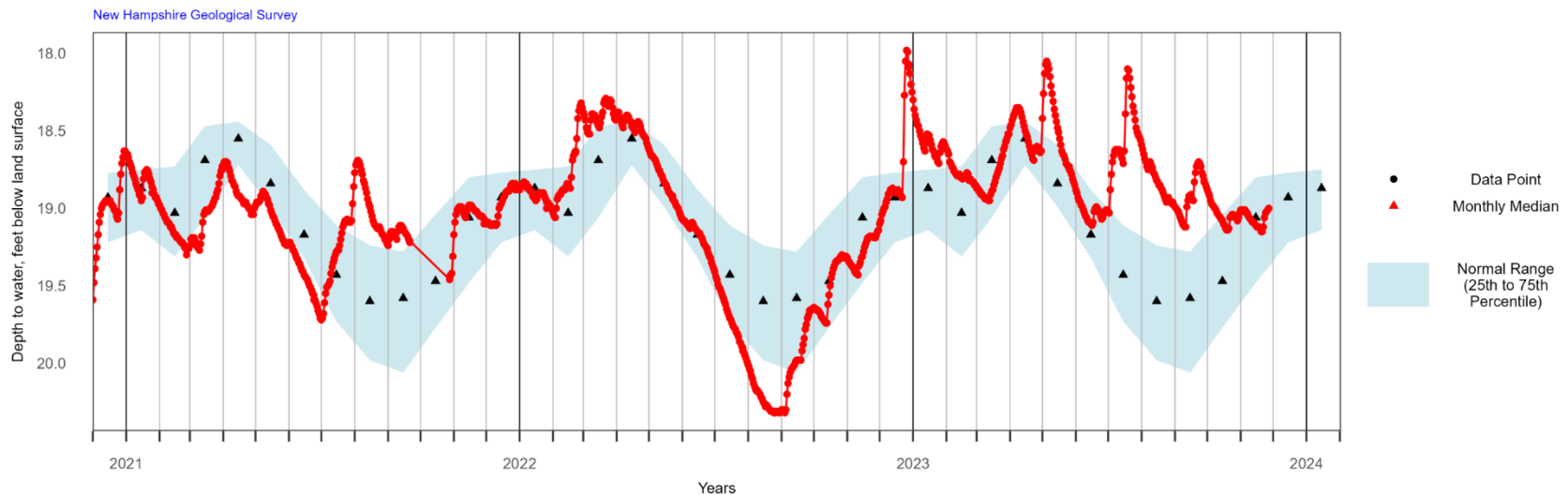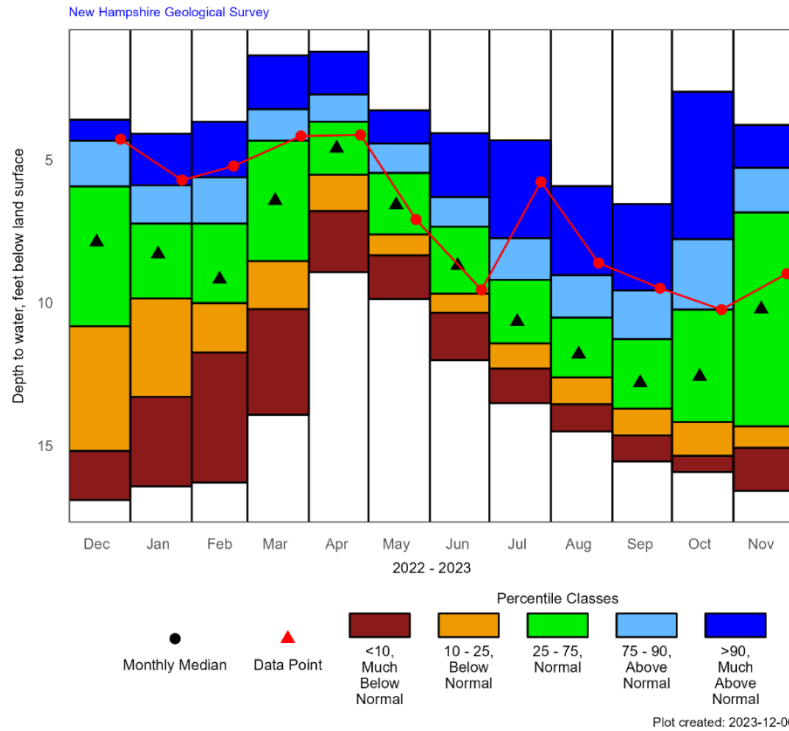
Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

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: 2023-12-06

NPW-03: Newport, 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: 2023-12-06

Period of Record Monthly Statistics for NPW-03
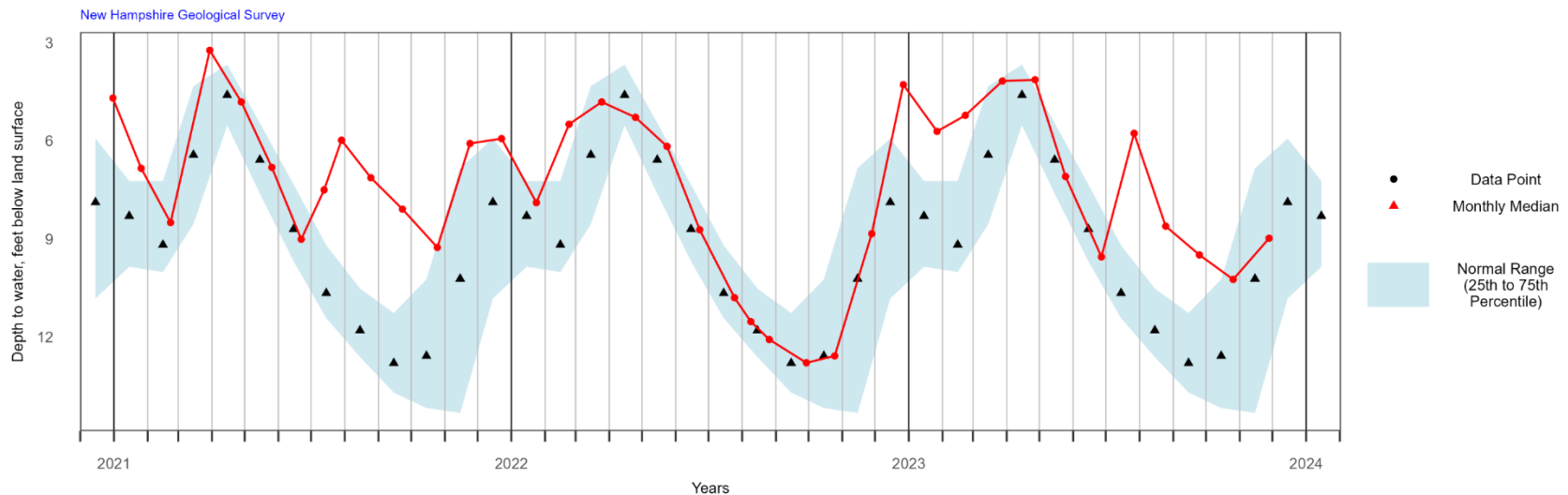Depth to water, feet below land surface
Most recent depth to water in NPW-03: 6.94 feet on 2023-11-28

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	7.09	6.84	6.41	5.80	4.89	4.15	27
Mar	7.24	6.92	6.34	5.85	4.83	4.26	3.81	26
Apr	6.74	6.23	5.65	5.30	4.26	3.31	2.07	30
May	6.88	6.44	6.00	5.58	4.76	4.46	3.52	28
Jun	7.24	7.19	6.84	6.19	5.45	4.97	4.64	28
Jul	7.80	7.72	7.06	6.50	5.95	4.58	3.56	28
Aug	8.25	8.11	7.72	6.92	6.39	5.95	5.46	29
Sep	8.48	8.29	7.94	7.14	6.71	6.08	4.99	29
Oct	8.60	8.14	7.53	7.15	6.22	5.56	2.82	29
Nov	8.27	7.81	7.28	6.52	5.87	4.59	3.96	29
Dec	7.96	7.43	7.11	6.43	5.55	4.64	3.79	27

Table created: 2023-12-06

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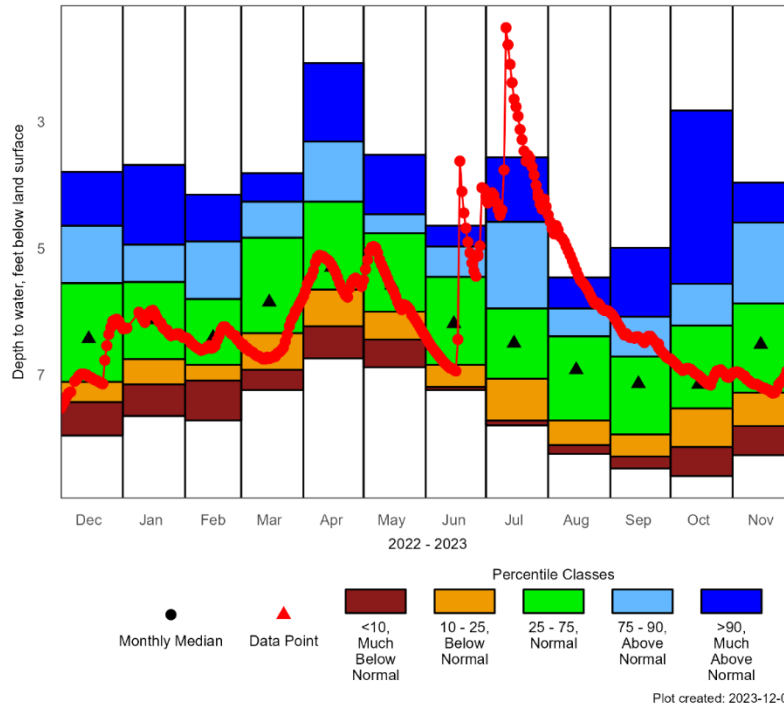
NPW-03: Newport, NH Overburden Well, Deep Couplet Member

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Data Point

Monthly Median

Normal Range
(25th to 75th Percentile)

Plot created: 2023-12-06

NPW-06: Newport, NH Overburden Well, Shallow Couplet Member
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2022 - 2023

Plot created: 2023-12-06

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

Period of Record Monthly Statistics for NPW-06
Depth to water, feet below land surface
Most recent depth to water in NPW-06: 7.02 feet on 2023-11-28

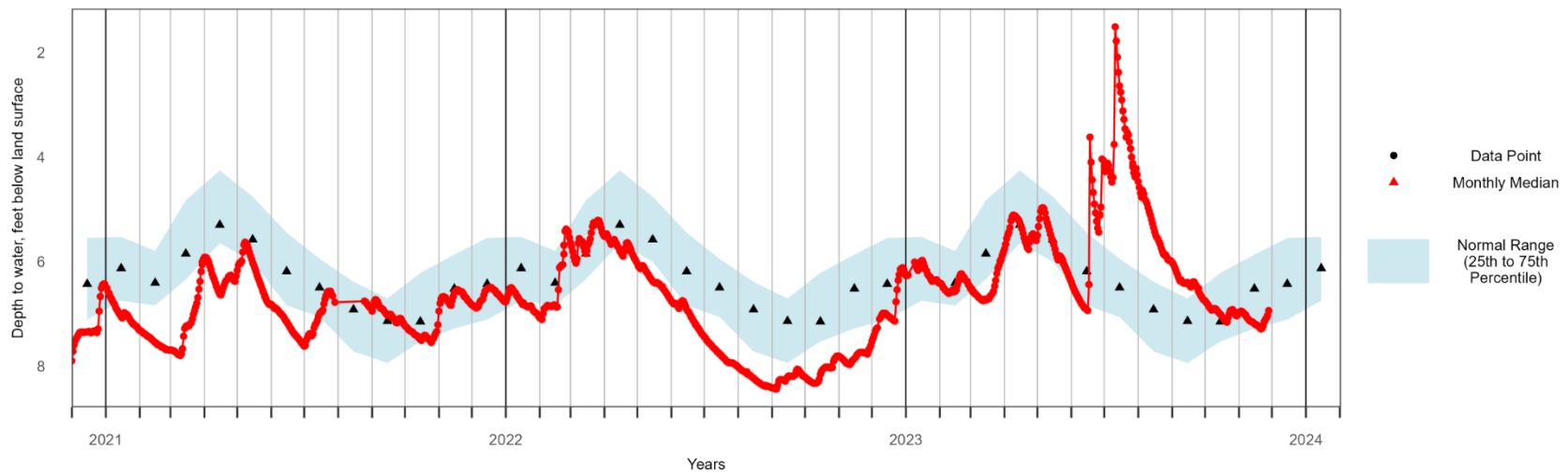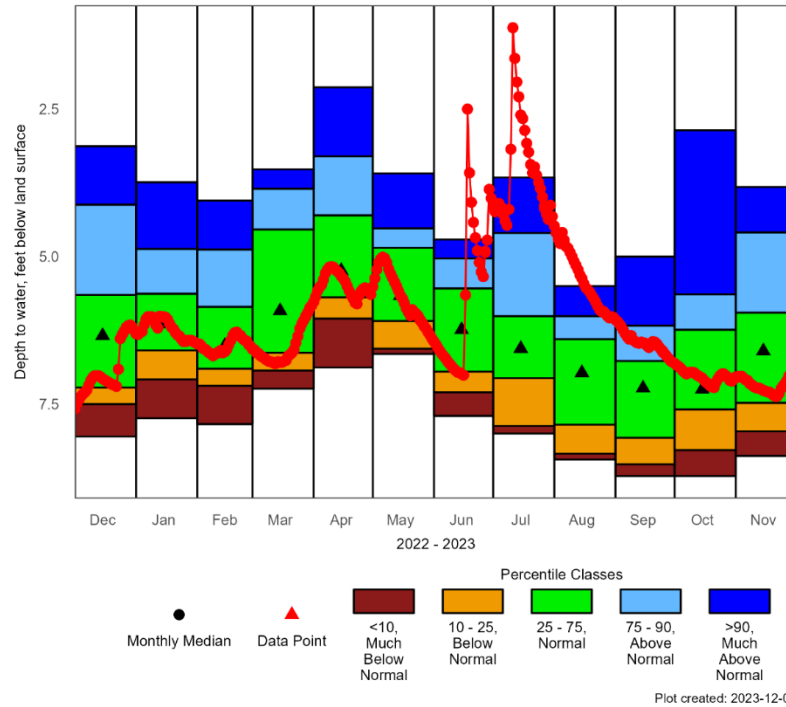| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	7.74	7.08	6.59	6.14	5.63	4.87	3.74	28
Feb	7.84	7.19	6.90	6.51	5.85	4.88	4.05	27
Mar	7.24	6.93	6.63	5.92	4.54	3.85	3.52	27
Apr	6.88	6.05	5.69	5.24	4.30	3.30	2.13	30
May	6.65	6.56	6.09	5.66	4.85	4.52	3.59	28
Jun	7.70	7.30	6.95	6.24	5.54	5.03	4.71	28
Jul	8.00	7.87	7.06	6.56	6.01	4.60	3.66	28
Aug	8.44	8.34	7.85	6.97	6.40	6.01	5.50	29
Sep	8.72	8.52	8.07	7.23	6.77	6.17	5.00	29
Oct	8.72	8.28	7.59	7.25	6.24	5.64	2.86	29
Nov	8.38	7.96	7.48	6.60	5.95	4.59	3.82	29
Dec	8.05	7.50	7.22	6.34	5.65	4.12	3.13	27

Table created: 2023-12-06

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)

Years

Plot created: 2023-12-06

OXW-38: Ossipee, 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: 2023-12-06

Period of Record Monthly Statistics for OXW-38
Depth to water, feet below land surface
Most recent depth to water in OXW-38: 34.66 feet on 2023-11-27

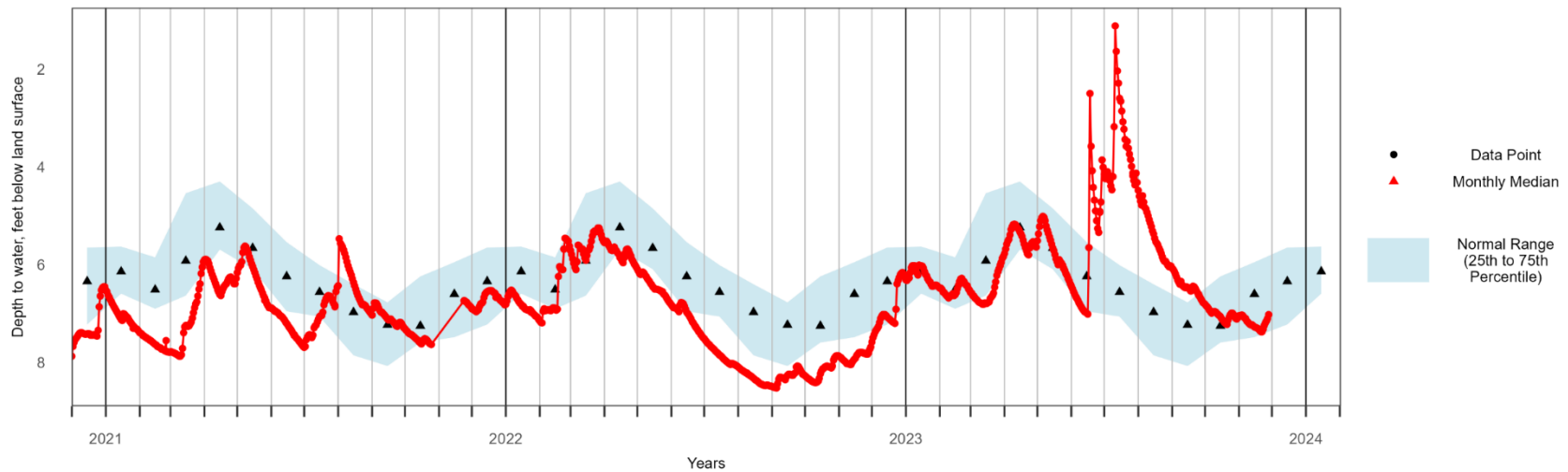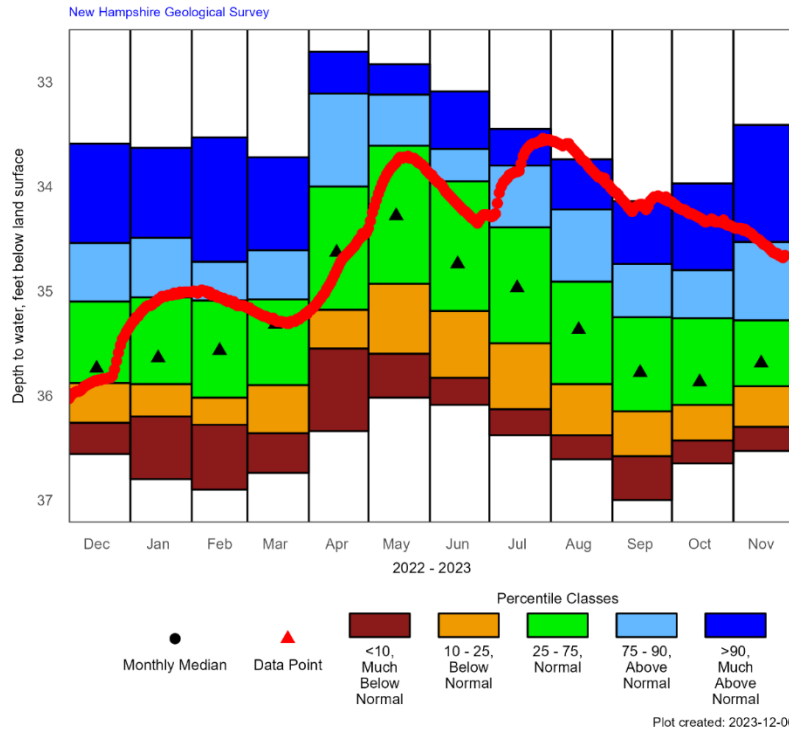| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	36.80	36.20	35.89	35.64	35.06	34.49	33.63	27
Feb	36.90	36.28	36.02	35.57	35.09	34.72	33.53	28
Mar	36.74	36.36	35.90	35.32	35.08	34.61	33.72	26
Apr	36.34	35.55	35.18	34.63	34.00	33.11	32.71	29
May	36.02	35.60	34.93	34.28	33.61	33.12	32.83	28
Jun	36.09	35.83	35.19	34.74	33.95	33.64	33.09	28
Jul	36.38	36.13	35.50	34.97	34.39	33.80	33.45	28
Aug	36.61	36.38	35.89	35.37	34.91	34.22	33.74	29
Sep	37.00	36.58	36.15	35.78	35.25	34.74	34.14	30
Oct	36.65	36.43	36.09	35.87	35.26	34.80	33.97	29
Nov	36.53	36.30	35.91	35.69	35.28	34.53	33.41	29
Dec	36.56	36.26	35.88	35.74	35.10	34.54	33.59	28

Table created: 2023-12-06

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

OXW-38: Ossipee, 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: 2023-12-06

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

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
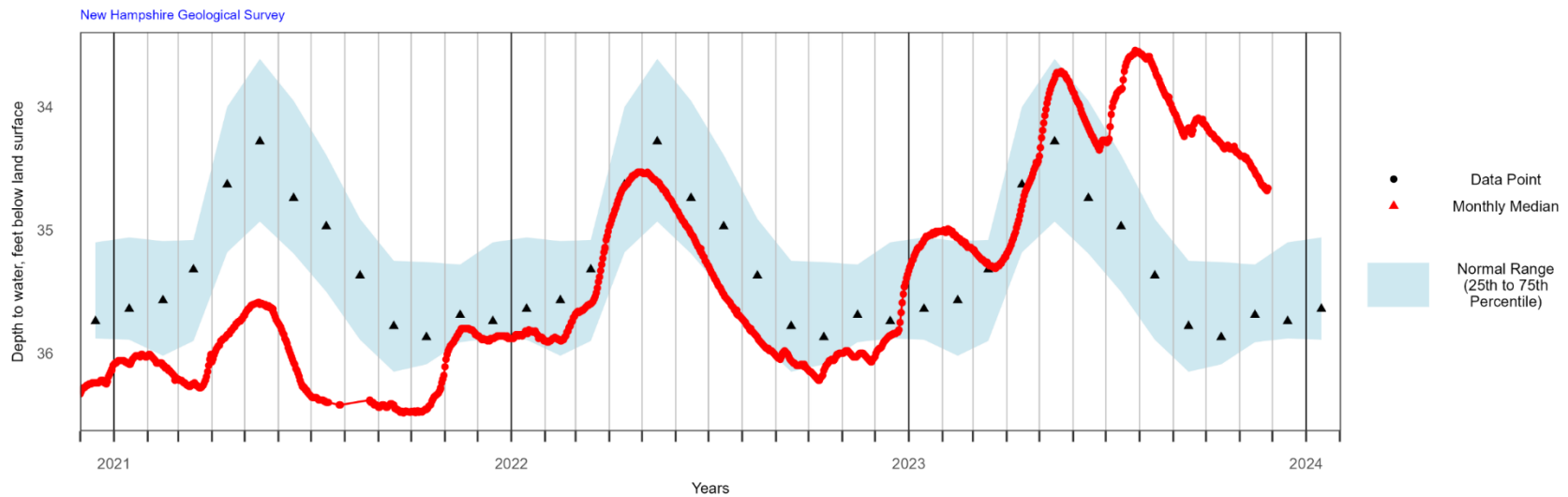
Plot created: 2023-12-06

Period of Record Monthly Statistics for CVWB-01
Depth to water, feet below land surface
Most recent depth to water in CVWB-01: 21.42 feet on 2023-11-27

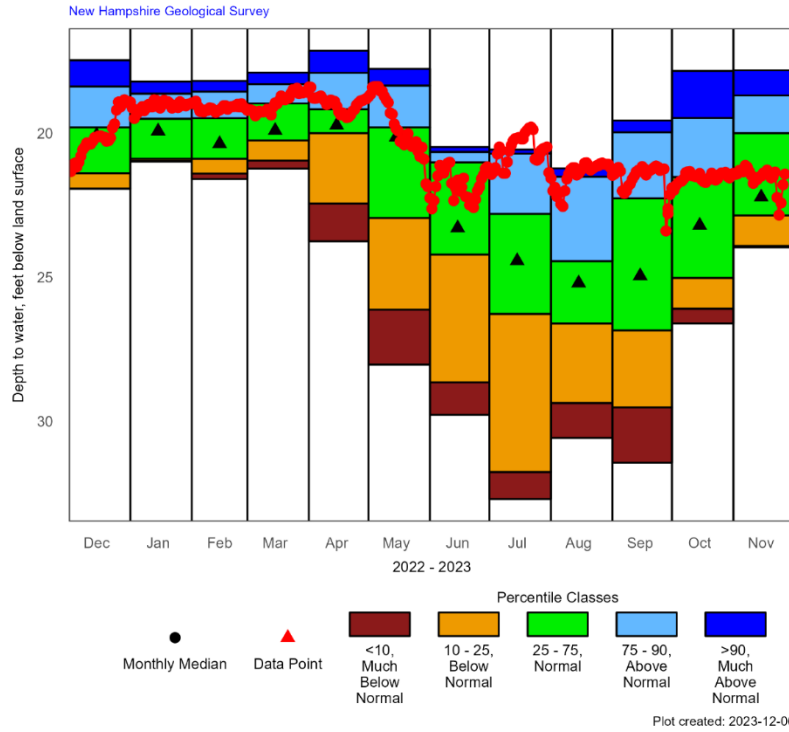| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	20.99	20.97	20.89	19.93	19.50	18.63	18.21	14
Feb	21.59	21.40	20.89	20.37	19.48	18.56	18.19	13
Mar	21.23	20.95	20.25	19.91	18.97	18.30	17.90	14
Apr	23.75	22.44	20.00	19.73	19.17	17.91	17.14	14
May	28.03	26.12	22.94	20.14	19.80	18.35	17.77	14
Jun	29.77	28.64	24.21	23.29	21.01	20.65	20.48	15
Jul	32.69	31.75	26.27	24.43	22.80	20.71	20.57	14
Aug	30.57	29.36	26.60	25.20	24.44	21.51	21.22	15
Sep	31.43	29.51	26.84	24.95	22.26	19.97	19.56	15
Oct	26.60	26.09	25.02	23.20	21.52	19.47	17.84	15
Nov	23.96	23.91	22.85	22.22	20.00	18.69	17.82	15
Dec	21.93	21.92	21.39	20.07	19.80	18.38	17.47	14

Table created: 2023-12-06

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

CVWB-01: Concord, NH Bedrock Well, Deep 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: 2023-12-06

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

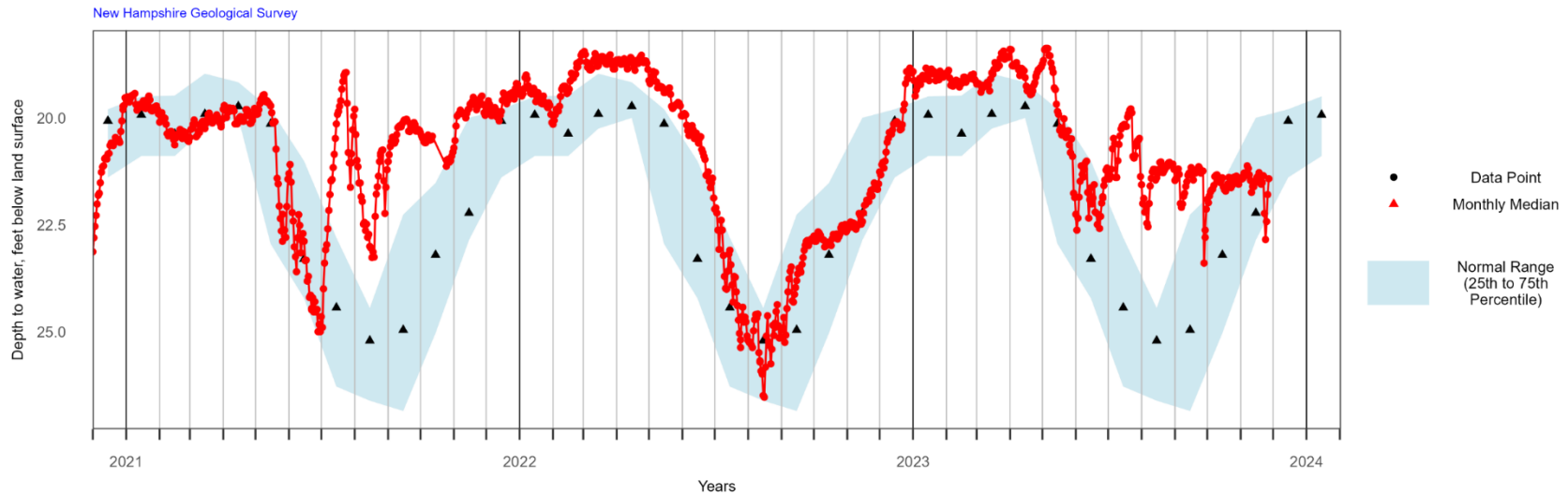
New Hampshire Geological Survey

Period of Record Monthly Statistics for CVWB-02
Depth to water, feet below land surface
Most recent depth to water in CVWB-02: 16.16 feet on 2023-11-27

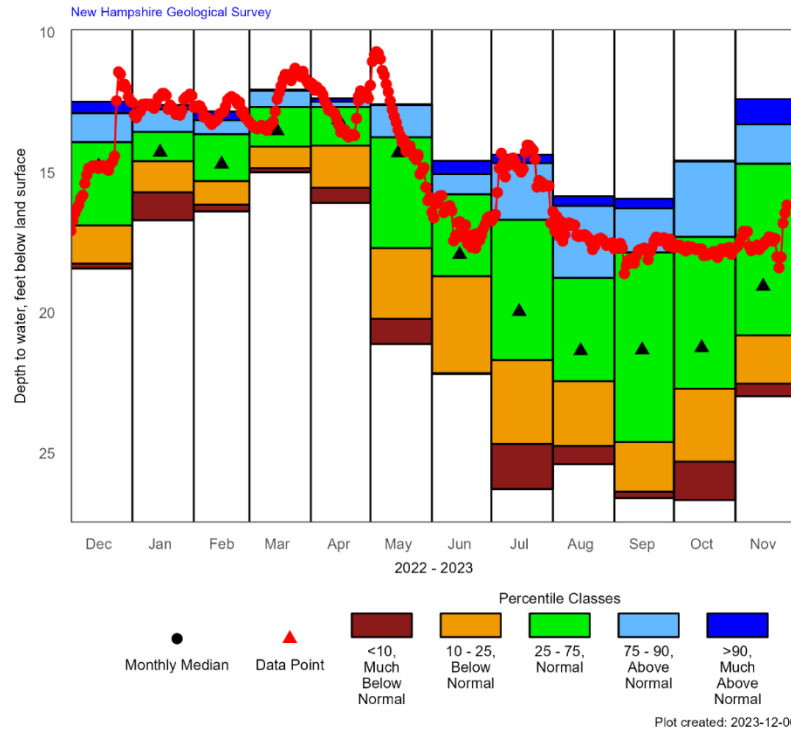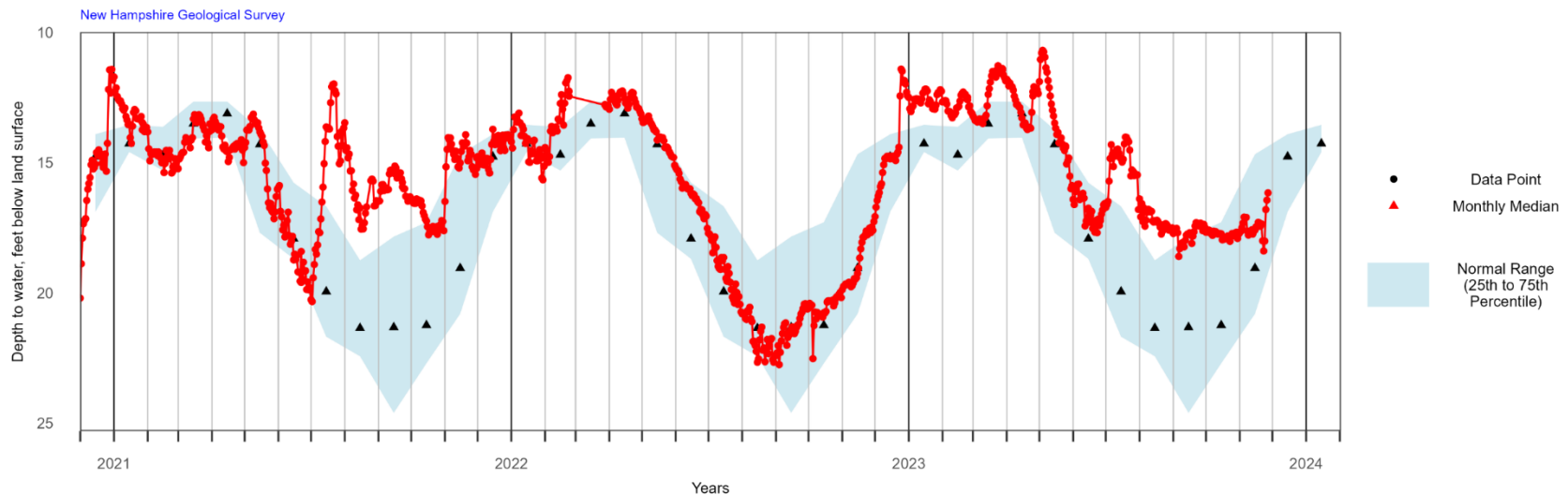| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.70	15.70	14.59	14.27	13.55	12.74	12.59	14
Feb	16.38	16.14	15.30	14.70	13.63	13.13	12.82	14
Mar	14.99	14.84	14.07	13.51	12.66	12.08	12.04	14
Apr	16.08	15.54	14.04	13.12	12.66	12.47	12.36	14
May	21.11	20.21	17.69	14.30	13.74	12.59	12.56	14
Jun	22.18	22.15	18.69	17.92	15.77	15.05	14.58	15
Jul	26.28	24.67	21.68	19.95	16.68	14.66	14.36	15
Aug	25.39	24.74	22.43	21.35	18.75	16.18	15.84	15
Sep	26.60	26.37	24.60	21.32	17.84	16.27	15.93	15
Oct	26.67	25.30	22.70	21.24	17.29	14.60	14.57	15
Nov	22.97	22.52	20.80	19.05	14.68	13.28	12.38	15
Dec	18.42	18.24	16.88	14.77	13.91	12.88	12.47	14

Table created: 2023-12-06

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

Plot created: 2023-12-06

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

New Hampshire Geological Survey

Plot created: 2023-12-06

DDWB-01: Deerfield, NH Bedrock Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Period of Record Monthly Statistics for DDWB-01
Depth to water, feet below land surface
Most recent depth to water in DDWB-01: 17.34 feet on 2023-11-29

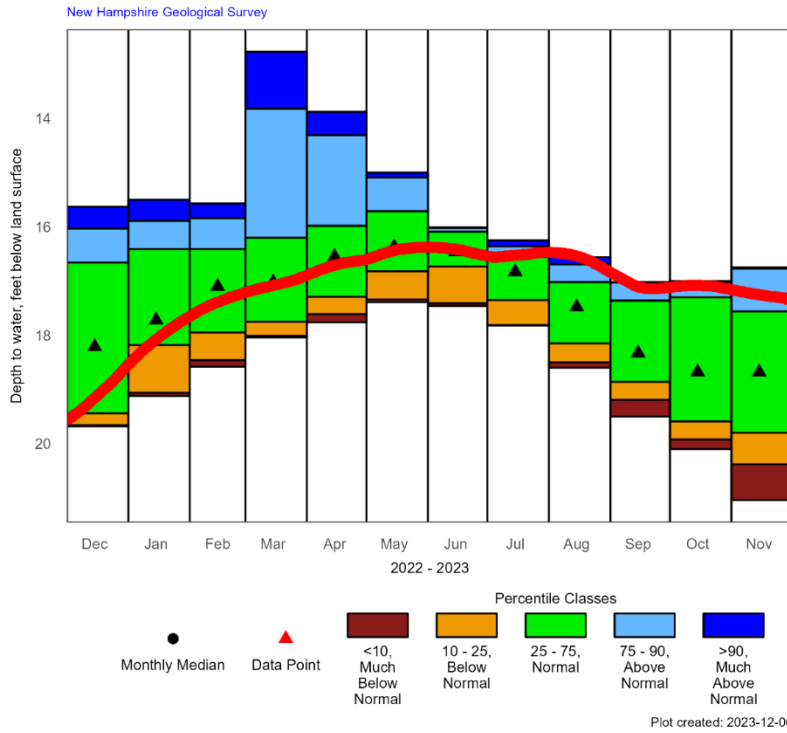| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	19.12	19.06	18.18	17.72	16.41	15.89	15.50	14
Feb	18.58	18.46	17.95	17.10	16.41	15.84	15.57	14
Mar	18.04	18.01	17.75	17.02	16.20	13.82	12.77	13
Apr	17.76	17.61	17.29	16.55	15.98	14.31	13.88	14
May	17.39	17.34	16.82	16.37	15.71	15.09	15.00	14
Jun	17.46	17.41	16.73	16.46	16.09	16.02	16.01	14
Jul	17.82	17.81	17.35	16.83	16.56	16.36	16.25	14
Aug	18.60	18.50	18.15	17.48	17.02	16.69	16.56	14
Sep	19.50	19.19	18.86	18.33	17.36	17.03	17.02	15
Oct	20.10	19.92	19.59	18.68	17.30	17.04	17.00	13
Nov	21.04	20.38	19.80	18.68	17.56	16.77	16.75	15
Dec	19.68	19.66	19.44	18.21	16.66	16.03	15.63	14

Table created: 2023-12-06

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

DDWB-01: Deerfield, NH Bedrock Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

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

Annual Hydrograph with Historical Median and Percentile Classes
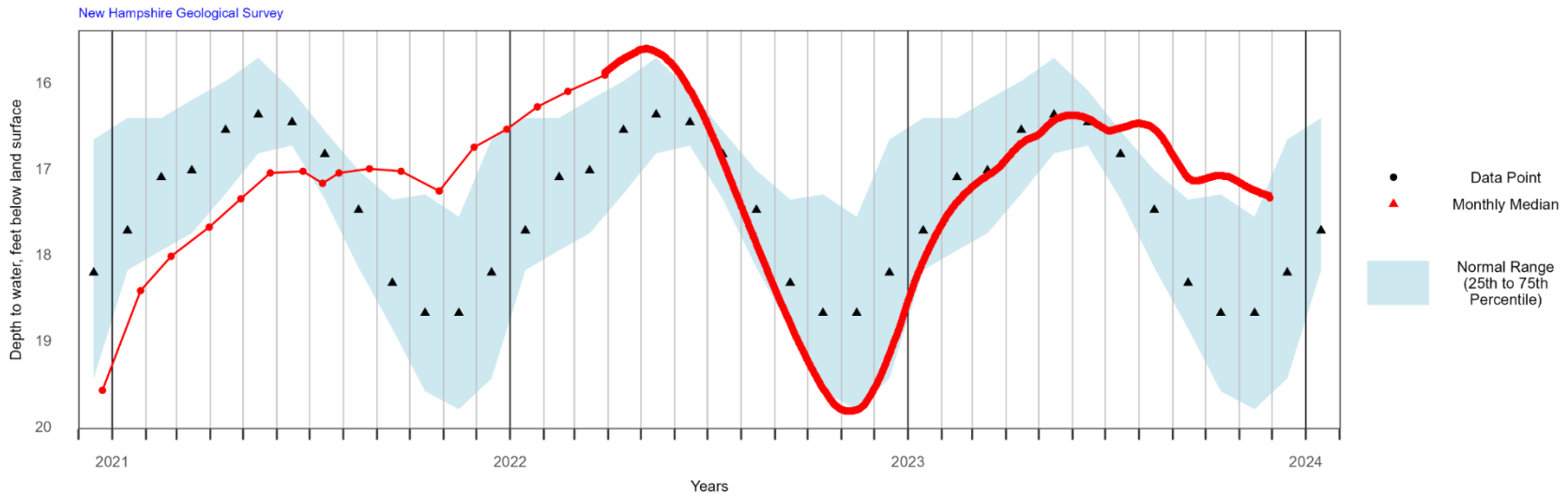
New Hampshire Geological Survey

Period of Record Monthly Statistics for EAWB-01
Depth to water, feet below land surface
Most recent depth to water in EAWB-01: 22.19 feet on 2023-11-28

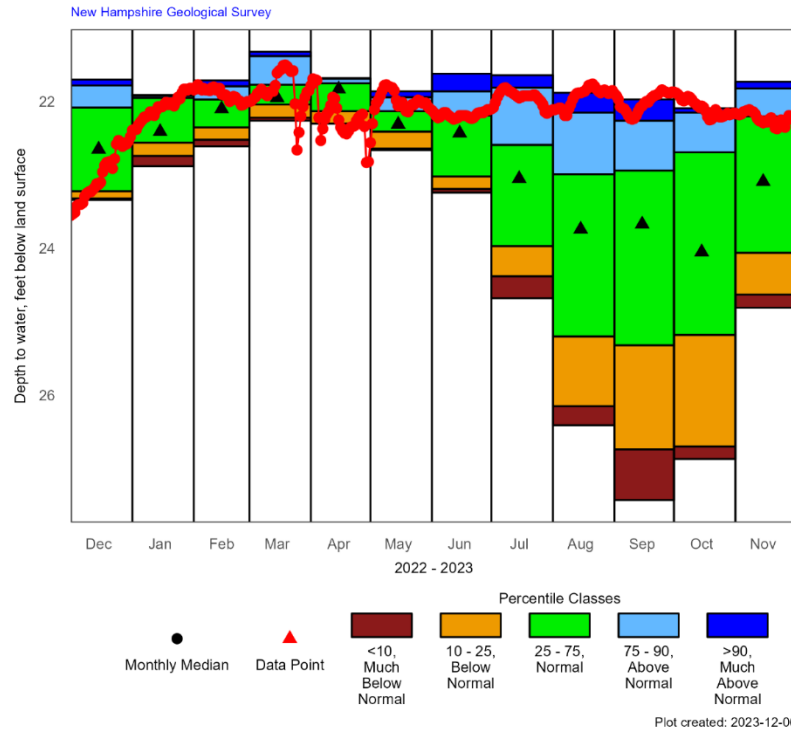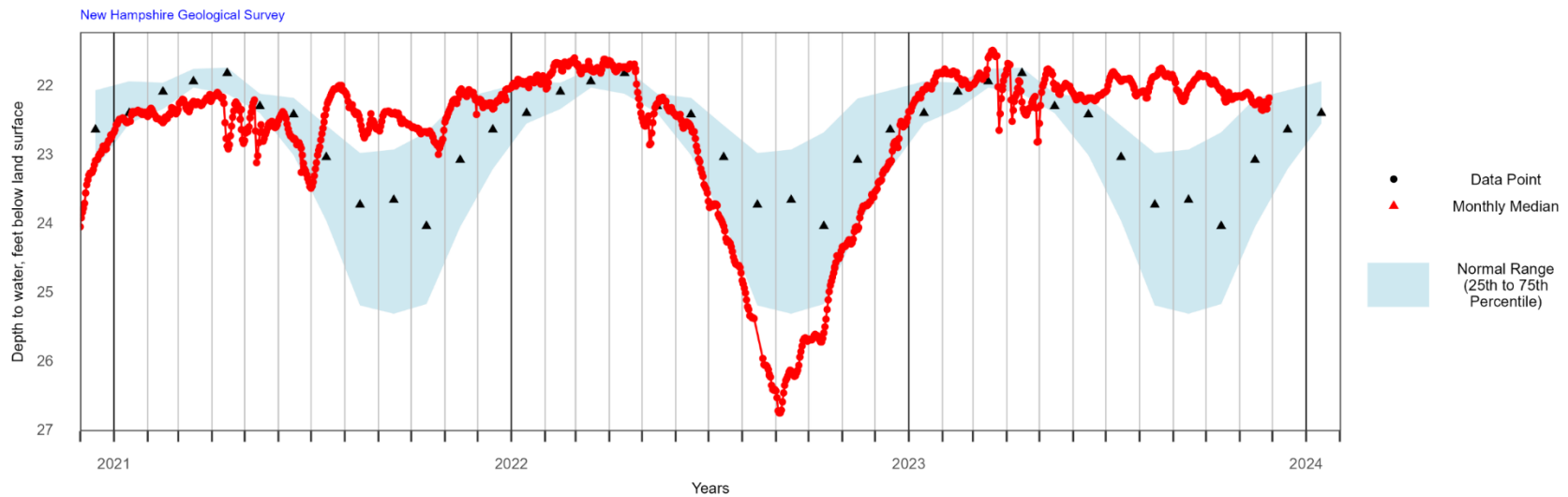| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	22.88	22.74	22.56	22.41	21.95	21.92	21.91	14
Feb	22.61	22.52	22.35	22.10	21.97	21.79	21.71	14
Mar	22.26	22.22	22.04	21.95	21.77	21.38	21.32	14
Apr	22.30	22.30	22.13	21.83	21.75	21.69	21.68	14
May	22.66	22.64	22.41	22.31	22.13	21.94	21.86	14
Jun	23.24	23.19	23.02	22.43	22.19	21.86	21.62	15
Jul	24.68	24.38	23.97	23.05	22.59	21.81	21.64	15
Aug	26.41	26.15	25.20	23.74	22.99	22.15	21.88	15
Sep	27.43	26.74	25.32	23.67	22.94	22.26	21.97	15
Oct	26.87	26.70	25.18	24.05	22.69	22.15	22.09	15
Nov	24.81	24.63	24.06	23.09	22.20	21.82	21.73	15
Dec	23.34	23.32	23.22	22.65	22.08	21.78	21.70	14

Table created: 2023-12-06

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: 2023-12-06

EAWB-01: East Kingston, NH Bedrock 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: 2023-12-06

EAWB-02: East Kingston, 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 (y-axis: 20, 22, 24, 26, 28)

X-axis: Dec, Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov — 2022 - 2023

Percentile Classes

- ● Monthly Median
- ▲ Data Point
- ■ <10, Much Below Normal (dark red)
- ■ 10 - 25, Below Normal (orange)
- ■ 25 - 75, Normal (green)
- ■ 75 - 90, Above Normal (light blue)
- ■ >90, Much Above Normal (blue)

Plot created: 2023-12-06

Period of Record Monthly Statistics for EAWB-02
Depth to water, feet below land surface
Most recent depth to water in EAWB-02: 21.01 feet on 2023-11-28

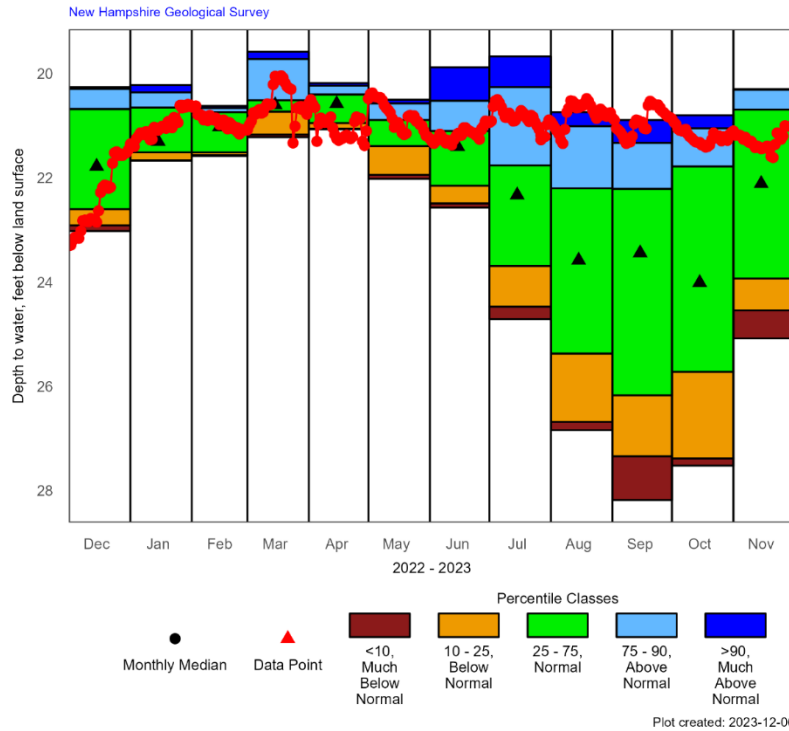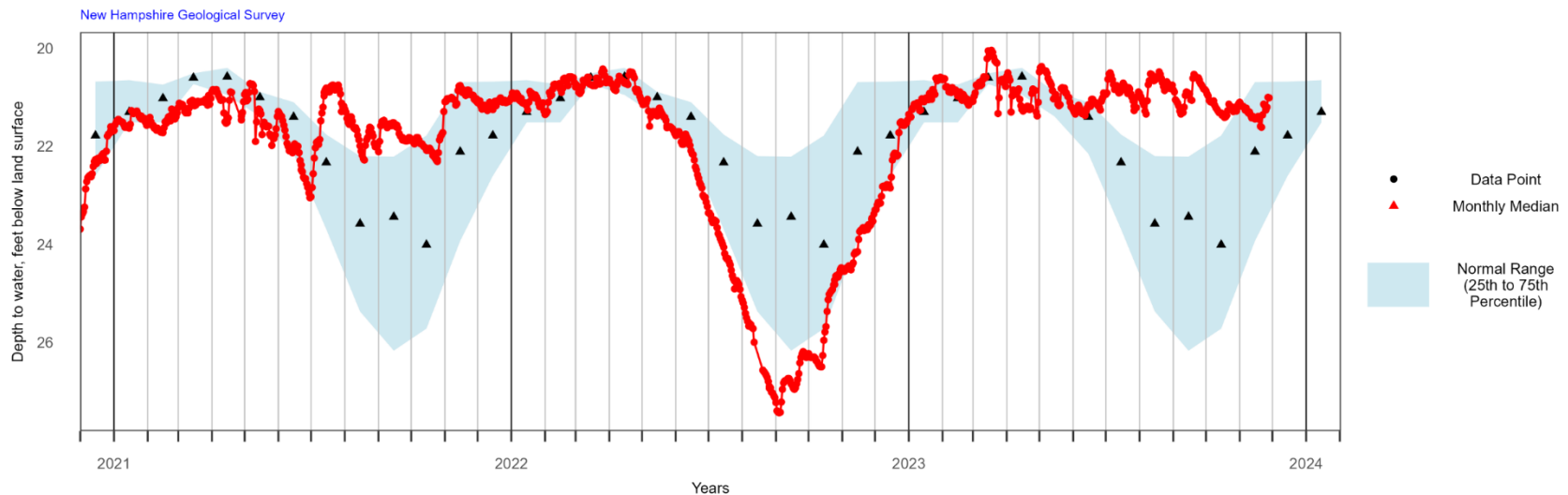| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	21.67	21.66	21.51	21.30	20.65	20.36	20.22	14
Feb	21.58	21.56	21.51	21.02	20.74	20.66	20.62	14
Mar	21.22	21.17	20.73	20.60	20.51	19.72	19.58	14
Apr	21.07	21.06	20.95	20.58	20.40	20.23	20.18	14
May	22.02	21.94	21.39	21.00	20.89	20.57	20.50	14
Jun	22.57	22.49	22.15	21.40	21.10	20.52	19.88	15
Jul	24.71	24.47	23.69	22.33	21.76	20.26	19.67	14
Aug	26.84	26.68	25.37	23.58	22.20	21.01	20.74	15
Sep	28.18	27.34	26.17	23.44	22.21	21.33	20.89	15
Oct	27.52	27.38	25.72	24.01	21.78	21.05	20.80	15
Nov	25.08	24.54	23.93	22.11	20.69	20.31	20.30	14
Dec	23.02	22.91	22.60	21.78	20.68	20.29	20.26	14

Table created: 2023-12-06

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

Groundwater Levels and Statistics for Past 3 Years

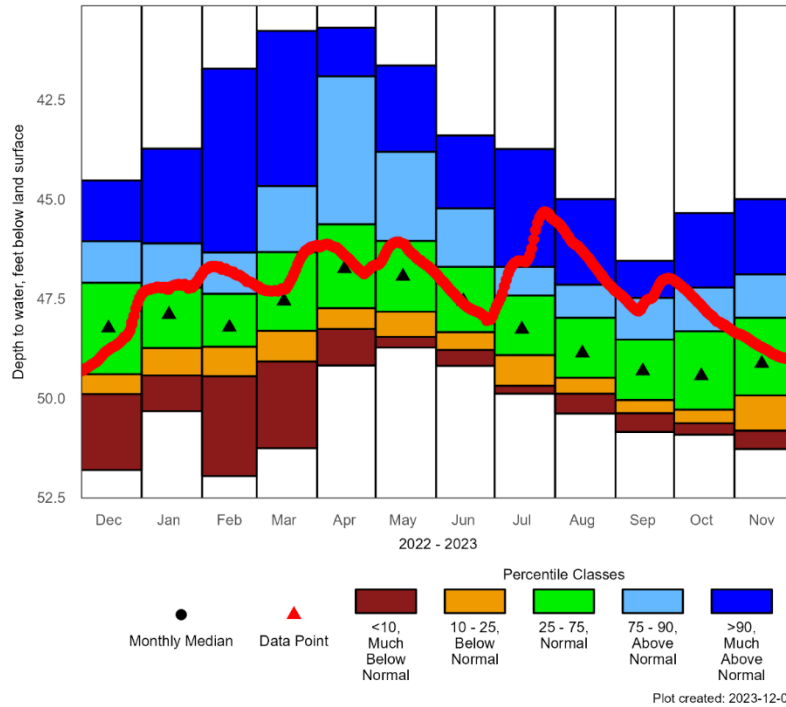New Hampshire Geological Survey

Depth to water, feet below land surface (y-axis: 20, 22, 24, 26)

X-axis: 2021, 2022, 2023, 2024 — Years

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

Plot created: 2023-12-06

HTW-05: Hooksett, NH Bedrock 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: 2023-12-06

Period of Record Monthly Statistics for HTW-05
Depth to water, feet below land surface
Most recent depth to water in HTW-05: 49.01 feet on 2023-11-28

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	49.45	48.71	48.22	47.38	46.34	41.72	54
Mar	51.26	49.08	48.31	47.56	46.33	44.67	40.77	58
Apr	49.18	48.26	47.74	46.75	45.63	41.91	40.69	59
May	48.73	48.46	47.83	46.94	46.05	43.81	41.64	57
Jun	49.19	48.79	48.34	47.56	46.70	45.23	43.40	57
Jul	49.89	49.69	48.92	48.27	47.42	46.70	43.74	56
Aug	50.39	49.89	49.49	48.87	47.98	47.15	45.00	58
Sep	50.85	50.38	50.05	49.32	48.53	47.48	46.55	57
Oct	50.92	50.63	50.29	49.44	48.32	47.22	45.35	56
Nov	51.28	50.82	49.93	49.13	47.98	46.89	45.00	58
Dec	51.81	49.90	49.40	48.24	47.10	46.06	44.53	58

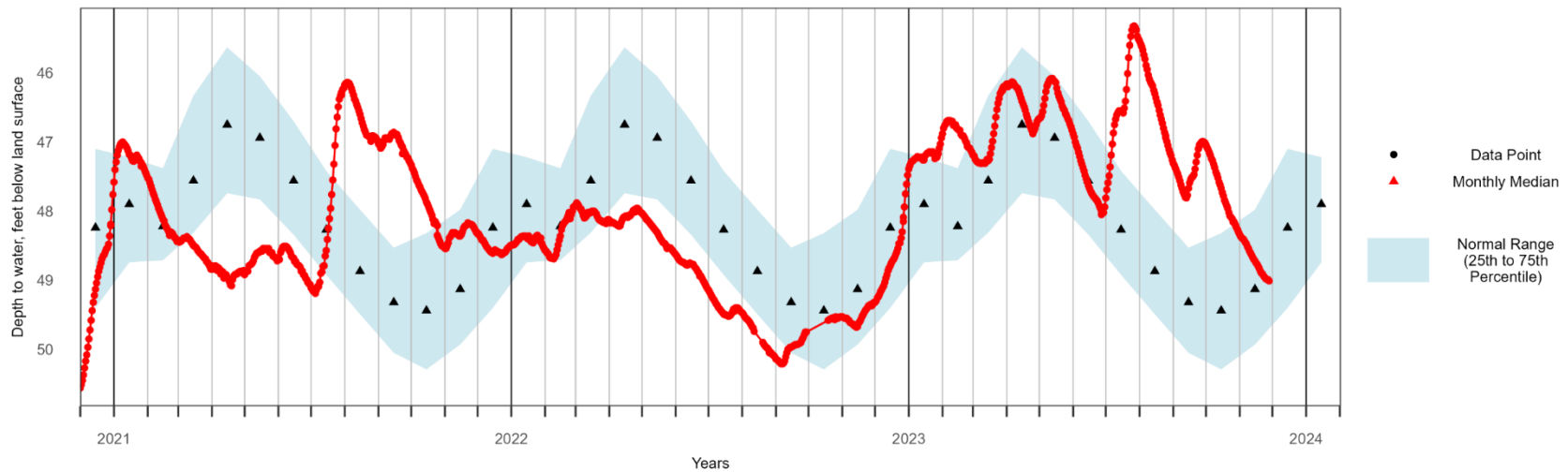Table created: 2023-12-06

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

HTW-05: Hooksett, NH Bedrock Well

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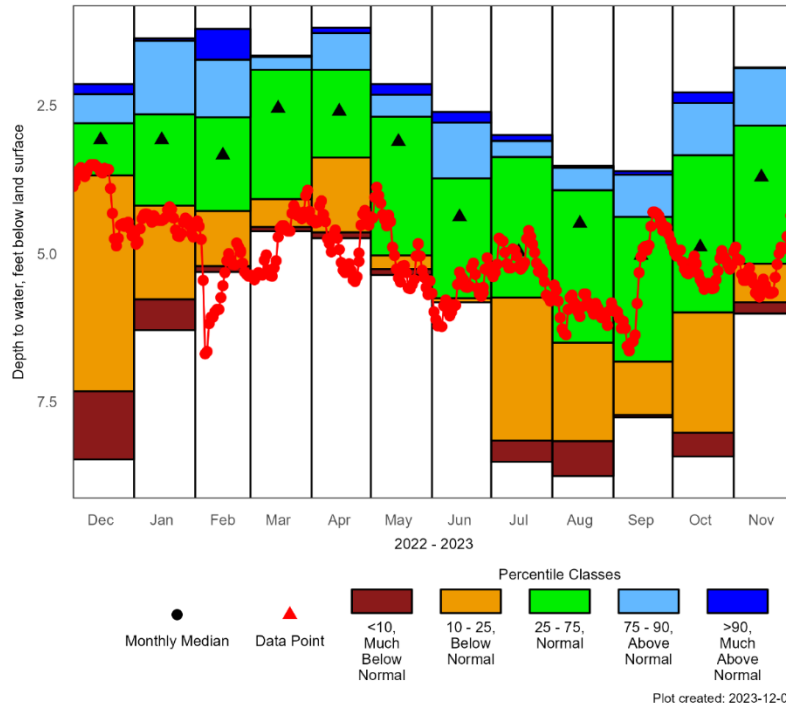
New Hampshire Geological Survey

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

Plot created: 2023-12-06

NWWB-01: Northwood, NH Bedrock Well

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: 2023-12-06

Period of Record Monthly Statistics for NWWB-01
Depth to water, feet below land surface
Most recent depth to water in NWWB-01: 4.36 feet on 2023-11-30

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	5.31	5.21	4.28	3.34	2.70	1.73	1.21	13
Mar	4.62	4.55	4.08	2.55	1.90	1.68	1.66	12
Apr	4.74	4.64	3.38	2.60	1.90	1.28	1.19	13
May	5.36	5.26	5.03	3.11	2.69	2.32	2.14	13
Jun	5.82	5.82	5.75	4.38	3.73	2.79	2.61	11
Jul	8.51	8.15	5.74	4.97	3.37	3.10	3.00	13
Aug	8.75	8.16	6.50	4.49	3.93	3.55	3.52	12
Sep	7.76	7.72	6.82	5.03	4.38	3.67	3.61	13
Oct	8.42	8.02	5.99	4.89	3.34	2.46	2.28	12
Nov	6.01	5.82	5.17	3.71	2.84	1.87	1.86	12
Dec	8.47	7.32	3.68	3.08	2.80	2.31	2.14	12

Table created: 2023-12-06

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

Depth to water, feet below land surface

Years

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

Plot created: 2023-12-06

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

New Hampshire Geological Survey

Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov

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: 2023-12-06

Period of Record Monthly Statistics for RGWB-01
Depth to water, feet below land surface
Most recent depth to water in RGWB-01: 13.69 feet on 2023-11-25

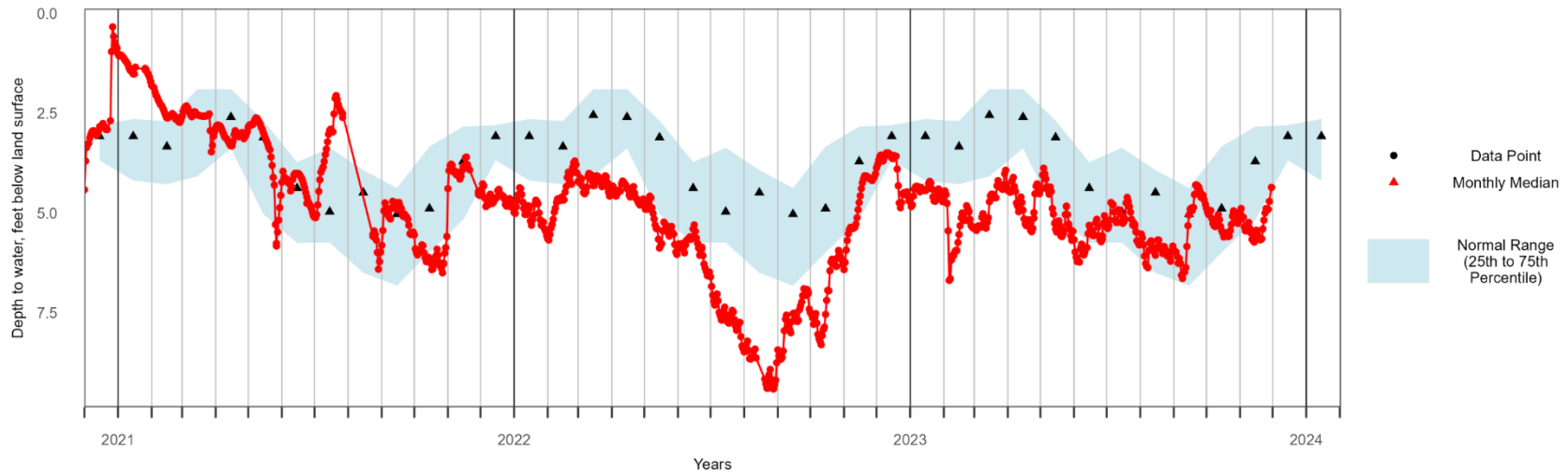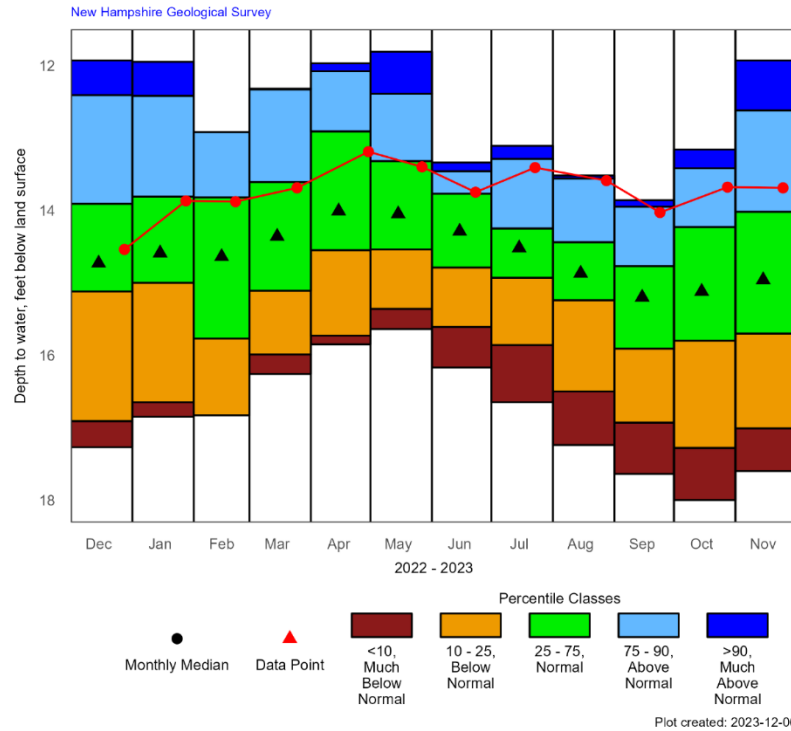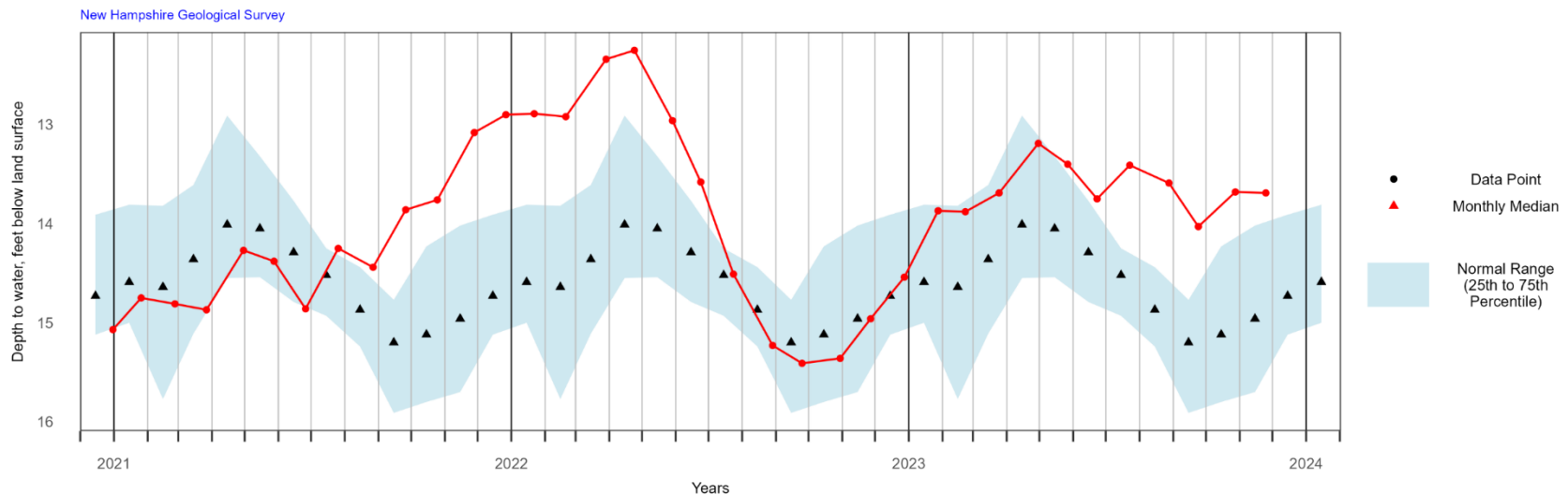| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.85	16.65	15.00	14.59	13.81	12.42	11.95	14
Feb	16.83	16.83	15.77	14.64	13.82	12.92	12.92	9
Mar	16.26	15.99	15.11	14.36	13.61	12.33	12.32	14
Apr	15.85	15.73	14.55	14.01	12.91	12.08	11.97	13
May	15.64	15.36	14.54	14.05	13.32	12.39	11.81	14
Jun	16.17	15.61	14.79	14.29	13.77	13.46	13.34	14
Jul	16.65	15.86	14.93	14.52	14.25	13.29	13.11	15
Aug	17.24	16.50	15.24	14.87	14.44	13.56	13.52	15
Sep	17.64	16.93	15.91	15.20	14.77	13.95	13.86	14
Oct	18.00	17.28	15.80	15.12	14.23	13.42	13.16	14
Nov	17.60	17.01	15.70	14.96	14.02	12.62	11.93	15
Dec	17.27	16.91	15.12	14.73	13.91	12.41	11.93	14

Table created: 2023-12-06
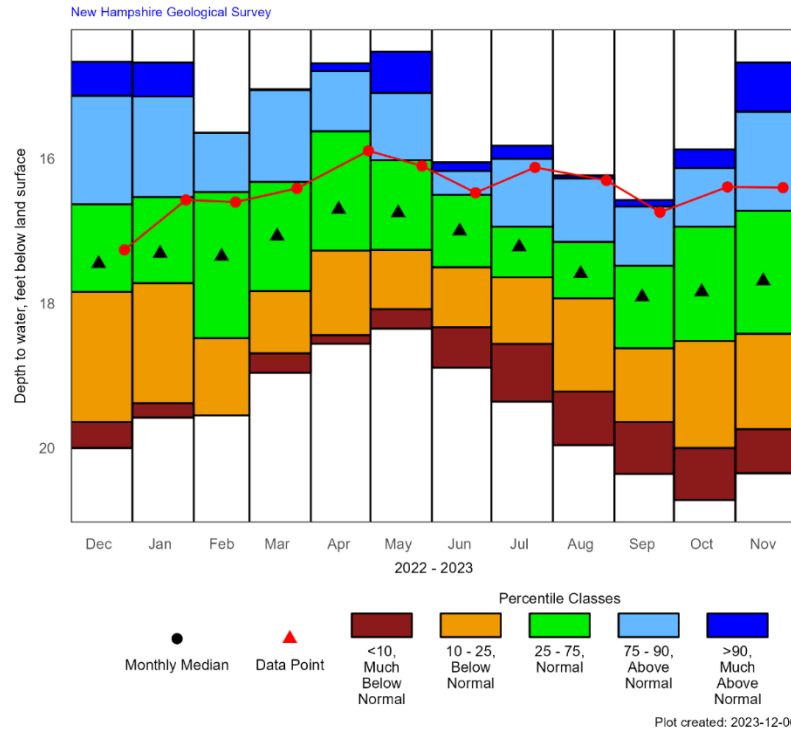
Figures and table created with R version 4.2.2 using a heavily modified version of the
Hydrologic AnalySis Package (HASP) open source code by USGS

RGWB-01: Rindge, NH Bedrock 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)

Years

Plot created: 2023-12-06

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: 2023-12-06

Period of Record Monthly Statistics for RGWB-02
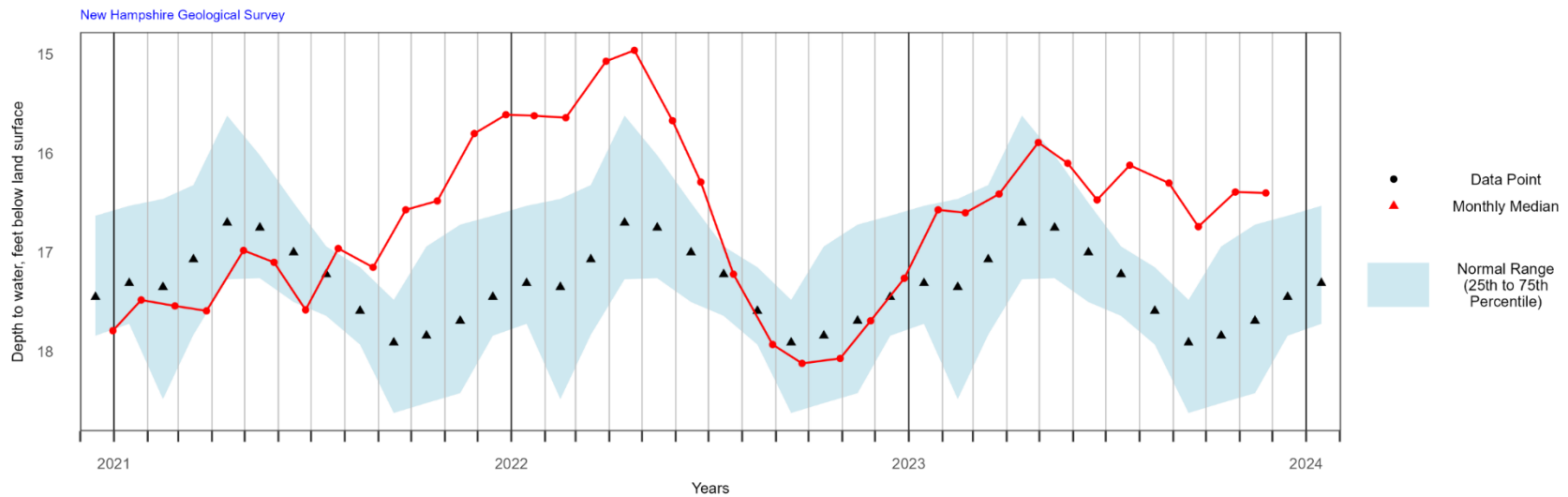Depth to water, feet below land surface
Most recent depth to water in RGWB-02: 16.4 feet on 2023-11-25

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	18.48	17.35	16.46	15.64	15.64	9
Mar	18.96	18.69	17.83	17.07	16.32	15.05	15.04	14
Apr	18.56	18.44	17.27	16.70	15.62	14.79	14.68	13
May	18.35	18.08	17.26	16.75	16.02	15.09	14.52	14
Jun	18.89	18.33	17.50	17.00	16.50	16.17	16.05	14
Jul	19.36	18.56	17.64	17.22	16.94	16.00	15.82	15
Aug	19.96	19.22	17.93	17.59	17.15	16.27	16.23	15
Sep	20.36	19.64	18.62	17.91	17.48	16.66	16.57	14
Oct	20.72	20.00	18.52	17.84	16.94	16.13	15.87	14
Nov	20.35	19.74	18.42	17.69	16.72	15.35	14.67	15
Dec	20.00	19.64	17.84	17.45	16.63	15.13	14.66	14

Table created: 2023-12-06

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: 2023-12-06

SOWB-02: Stewartstown, NH Bedrock Well, Shallow Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey
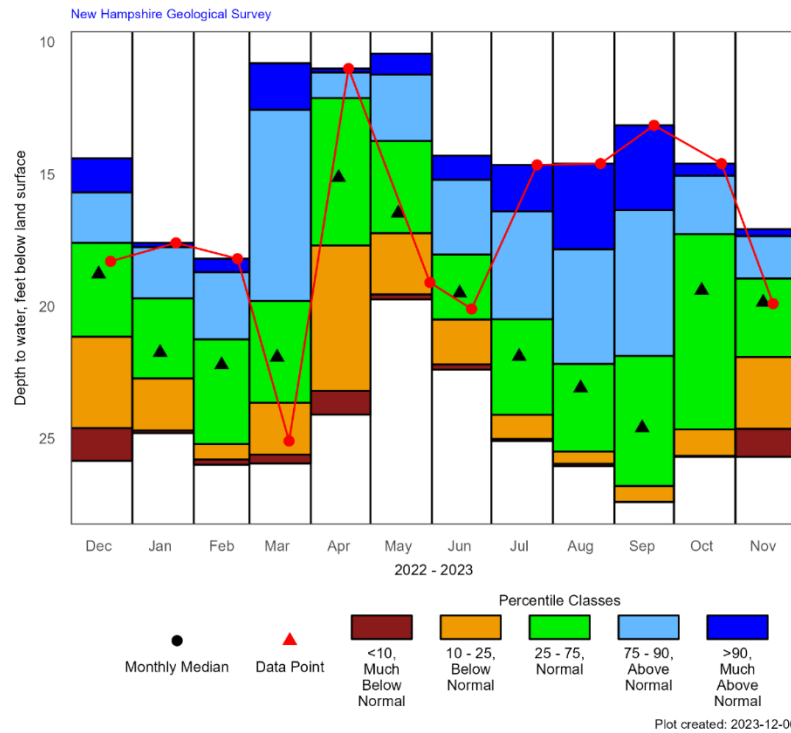
Period of Record Monthly Statistics for SOWB-02
Depth to water, feet below land surface
Most recent depth to water in SOWB-02: 19.9 feet on 2023-11-20

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	25.80	25.21	22.22	21.25	18.71	18.20	12
Mar	25.95	25.61	23.65	21.93	19.80	12.56	10.80	13
Apr	24.10	23.20	17.70	15.13	12.12	11.15	11.00	14
May	19.74	19.55	17.23	16.48	13.74	11.23	10.44	12
Jun	22.40	22.20	20.50	19.50	18.04	15.21	14.30	14
Jul	25.10	25.02	24.11	21.90	20.49	16.41	14.65	14
Aug	26.05	25.96	25.50	23.09	22.18	17.84	14.60	15
Sep	27.41	27.40	26.80	24.60	21.88	16.36	13.15	15
Oct	25.70	25.66	24.66	19.40	17.27	15.06	14.60	13
Nov	25.70	24.64	21.92	19.85	18.95	17.34	17.08	14
Dec	25.85	24.61	21.15	18.78	17.60	15.69	14.40	14

Table created: 2023-12-06

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: 2023-12-06

SOWB-02: Stewartstown, 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: 2023-12-06