New Hampshire Groundwater Level Monitoring
November 2022

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

December 5, 2022

NEW HAMPSHIRE GROUNDWATER CONDITIONS SUMMARY

Temperature and Precipitation. New Hampshire monthly temperature was generally above normal, and monthly precipitation was generally below normal for November 2022. The monthly departure from normal temperature ranged from +2° F to +4° F in southern, western, and northern New Hampshire to +4° F to +6° F in eastern New Hampshire, according to data provided by the Northeast Regional Climate Center (NRCC) at Cornell University. The State-wide mean precipitation for the month of November was 92% of normal[1], according to the Quantitative Precipitation Estimates (QPE) provided by the National Weather Service Advanced Hydrologic Prediction Service (AHPS). Most of New Hampshire received 50% to 110% of normal precipitation amounts in November 2022. The exceptions were in the Lakes Region, White Mountains Region, and southern Coos County which received 100% to 150% of normal precipitation. Percent of normal precipitation state-wide in New Hampshire reported by QPE from AHPS ranged from a low of 48% of normal precipitation in western New Hampshire to a high of 144% of normal in the White Mountains region, with a state-wide mean ± std. dev. % normal monthly precipitation of 92% ± 19. Figure 1 shows the distribution of November 2022 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 December 1, 2022, the extent of areas in New Hampshire designated as Abnormally Dry (D0) and Moderate Drought (D1) have contracted since late October. The categorical percent area of New Hampshire designated as Abnormally Dry (D0) and Moderate Drought (D1) conditions is currently 32.1% and 3.3% of the State, respectively, and the cumulative percent area of New Hampshire designated as Abnormally Dry (D0) and Moderate Drought (D1) is 35.4% of the State. Currently, no part of the State of New Hampshire is currently designated as Severe Drought (D2) or greater. Moderate Drought (D1) conditions currently cover 3.3% of New Hampshire, including 40% of interior Rockingham County and far eastern Hillsborough County. Abnormally Dry (D0) conditions cover 32.1% of New Hampshire, including most of the remainder of Rockingham County, most of Belknap County, approximately half of Hillsborough, Merrimack, Sullivan, and Grafton Counties, and the southern portion of Cheshire County. No parts of Coos or Carroll Counties are experiencing drought or abnormally dry conditions according to the most recent USDM map. 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] Based on the most recent 30-year 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 November 21 and 30, 2022 show the monthly status (percentile class) of the most recent groundwater levels vary across the State of New Hampshire from Much Below Normal (less than 10th percentile) to Above Normal (75th to 90th percentile) levels, as indicated in Tables 1 and 2.

- Much Below Normal (less than 10th Percentile) groundwater level was recorded in 1 well: the overburden well in Lancaster.
- Below Normal (10th to 25th Percentile) groundwater levels were recorded in 5 wells: the overburden wells in Deerfield and Franklin and Ossipee, and both overburden wells in Newport.
- Normal (25th to 75th Percentile) groundwater levels were recorded in 20 wells: both overburden wells in Albany, both overburden wells in Concord, the overburden wells in Campton, Epping, Greenfield, Lisbon, Nashua, New Durham, and New London, both bedrock wells in Concord and East Kingston, the bedrock wells in Deerfield, Hooksett, Northwood, and both bedrock wells in Rindge.
- Above Normal (75th to 90th Percentile) groundwater levels were recorded in 2 wells: the overburden well in Colebrook, and the shallow bedrock well in Stewartstown.
- For the well with POR < 10 years (and > 1 year) for November, the most recent measurement in the overburden well in Barrington (BBW-53) is slightly above the median level for November.

NOTES:

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.

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 4.1.3 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.

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 groundwater levels relative to statistical envelopes calculated over each well's period of record (POR) and percent normal precipitation map for November 2022 (National Weather Service – Advanced Hydrologic Prediction Service).

Figure 2. Groundwater Monitoring Network map showing 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 December 1, 2022.

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 (ft)	Date	Status		
ADW-14	Albany	Deep Overburden	80	78-80	28	5.53	2022-11-29	Normal	Above Normal	-1
ADW-15	Albany	Shallow Overburden	18	16-18	28	7.68	2022-11-29	Normal	Normal	
BBW-53	Barrington	Overburden	23	21-23	7	4.27	2022-11-28	Not Analyzed	Not Analyzed	
CBW-34	Campton	Overburden	107	105-107	29	13.69	2022-11-29	Normal	Normal	
CTW-73	Colebrook	Overburden	27	24-27	25		2022-11-30	Above Normal	Not Measured	
CTW-73R	Colebrook	Overburden	40	30-40	1	18.05	2022-11-21	Not Analyzed	Not Analyzed	
CVW-02R	Concord	Overburden	63	57-62	55	41.74	2022-11-29	Normal	Normal	
CVW-04	Concord	Overburden	41	39-41	57	18.37	2022-11-29	Normal	Normal	
CVW-04R	Concord	Overburden	35	25-35	1	6.23	2022-11-29	Not Analyzed	Not Analyzed	
DDW-46	Deerfield	Overburden	48	46-48	30	39.68	2022-11-30	Below Normal	Below Normal	
EPW-90	Epping	Overburden	38	36-38	16	29.77	2022-11-30	Normal	Normal	
FKW-01	Franklin	Overburden	52	49-52	55	14.38	2022-11-29	Below Normal	Below Normal	
FKW-01R	Franklin	Overburden	38	28-38	1	14.68	2022-11-29	Not Analyzed	Not Analyzed	
GSW-75	Greenfield	Overburden	68	66-68	26	62.09	2022-11-27	Normal	Normal	
LCW-1	Lancaster	Overburden	30	28-30	54	3.01	2022-11-30	Much Below Normal	Much Below Normal	
LLW-19	Lisbon	Overburden	42	40-42	28	14.28	2022-11-29	Normal	Normal	
NAW-218	Nashua	Overburden	43	41-43	55	27.61	2022-11-28	Nashua	Above Normal	-1
NFW-53	New Durham	Overburden	60	58-60	28	19.30	2022-11-29	Normal	Normal	
NLW-01	New London	Overburden	21	0-21	74	12.58	2022-11-28	Normal	Normal	
NPW-03	Newport	Deep Overburden	56	54-56	28	8.01	2022-11-28	Below Normal	Below Normal	
NPW-06	Newport	Shallow Overburden	19	17-19	28	8.58	2022-11-28	Below Normal	Below Normal	
OXW-38	Ossipee	Overburden	115	113-114	28	36.01	2022-11-29	Below Normal	Normal	-1
CVWB-01	Concord	Deep Bedrock	480	470-480	14	22.72	2022-11-28	Normal	Normal	
CVWB-02	Concord	Shallow Bedrock	315	20-315	14	20.39	2022-11-28	Normal	Normal	
DDWB-01	Deerfield	Bedrock	300	20-300	14	19.76	2022-11-30	Normal	Below Normal	+1
EAWB-01	East Kingston	Deep Bedrock	473	463-473	14	24.66	2022-11-28	Normal	Normal	
EAWB-02	East Kingston	Shallow Bedrock	323	70-323	13	24.82	2022-11-28	Normal	Normal	
HTW-05	Hooksett	Bedrock	103	44-103	57	49.57	2022-11-28	Normal	Normal	
NWWB-01	Northwood	Bedrock	167	30-167	11	5.95	2022-11-28	Normal	Normal	
RGWB-01	Rindge	Deep Bedrock	401	391-401	14	15.36	2022-11-27	Normal	Normal	
RGWB-02	Rindge	Shallow Bedrock	285	120-285	14	18.07	2022-11-27	Normal	Normal	
SOWB-01	Stewartstown	Deep Bedrock	453	443-453	12	14.88	2022-11-21	Not Analyzed	Not Analyzed	
SOWB-02	Stewartstown	Shallow Bedrock	303	20-303	13	15.75	2022-11-21	Above Normal	Much Above Normal	-1

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 total percentile class changes.

Percentile Class	Status	Current Month Count: Late November 2022	Prior Month Count: Late October 2022	Monthly Class Change
Above highest monthly median	High	0	0	-
>90	Much Above Normal	0	1	-1
75 – 90	Above Normal	2	2	-
25 – 50	Normal	20	18	+2
10 – 25	Below Normal	5	5	-
<10	Much Below Normal	1	1	-
Below lowest monthly median	Low	0	0	-
<10yr Period of Record, Not Analyzed or Not Measured		5	6	-1

November 2022 Total Percentile Class Deteriorations	4
November 2022 Total Percentile Class Improvements	1

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

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02
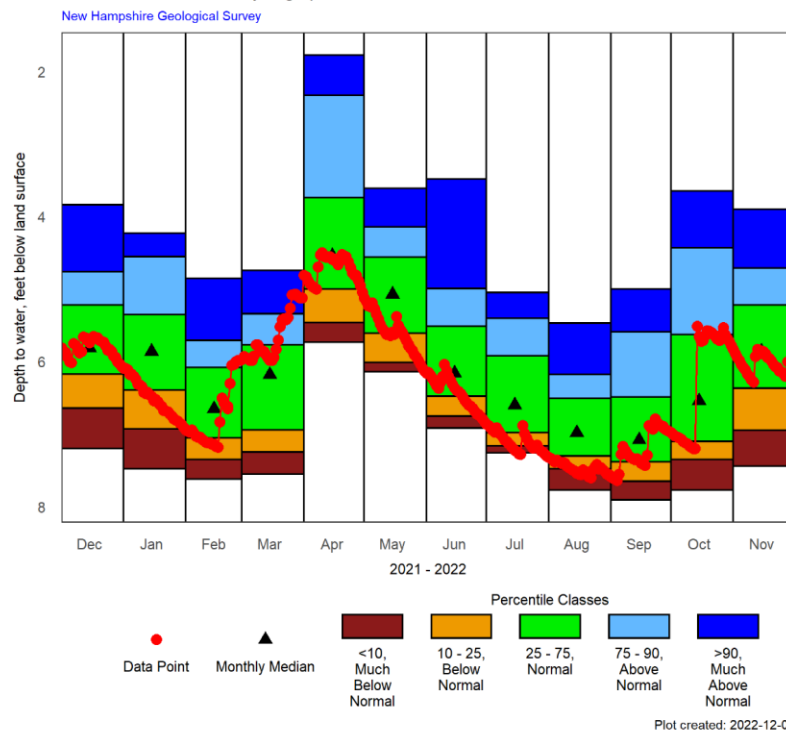
Period of Record Monthly Statistics for ADW-14
Depth to water, feet below land surface
Most recent depth to water in ADW-14: 6.01 feet on 2022-11-29

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	7.48	6.93	6.39	5.86	5.35	4.55	4.23	27
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	28
Nov	7.44	6.95	6.37	5.86	5.22	4.71	3.90	28
Dec	7.20	6.64	6.17	5.81	5.22	4.76	3.84	27

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

ADW-14: Albany, NH Overburden 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: 2022-12-02

ADW-15: Albany, NH Overburden Well, Shallow Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

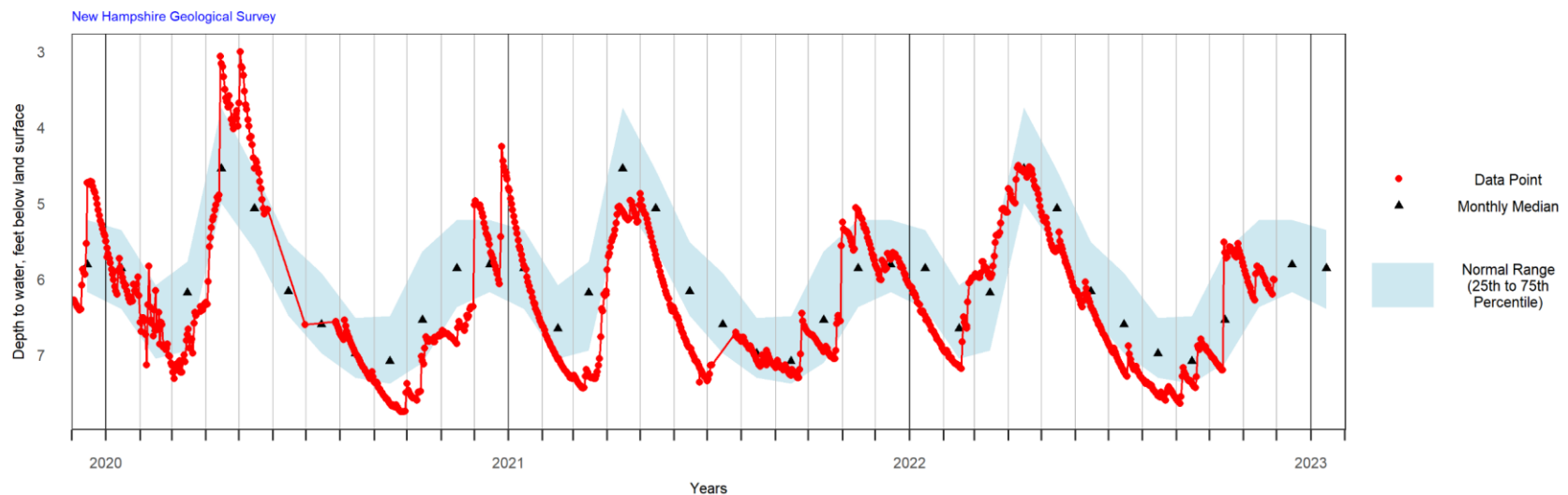Period of Record Monthly Statistics for ADW-15
Depth to water, feet below land surface
Most recent depth to water in ADW-15: 8.08 feet on 2022-11-29

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	9.25	8.89	8.33	7.89	7.20	5.88	5.80	27
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	8.50	8.12	7.86	6.82	6.34	4.60	26

Table created: 2022-12-02
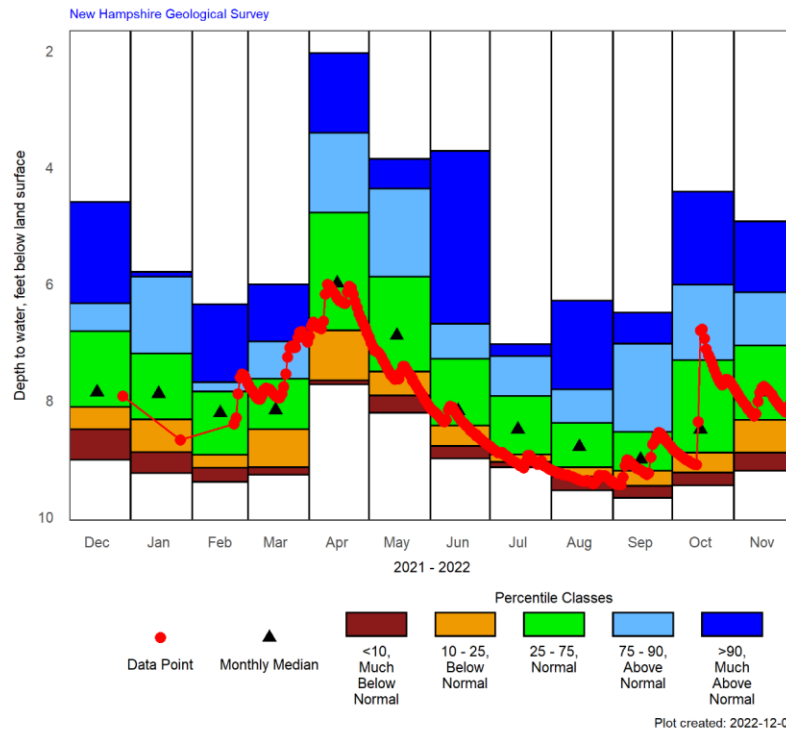
Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

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)

Years

Plot created: 2022-12-02
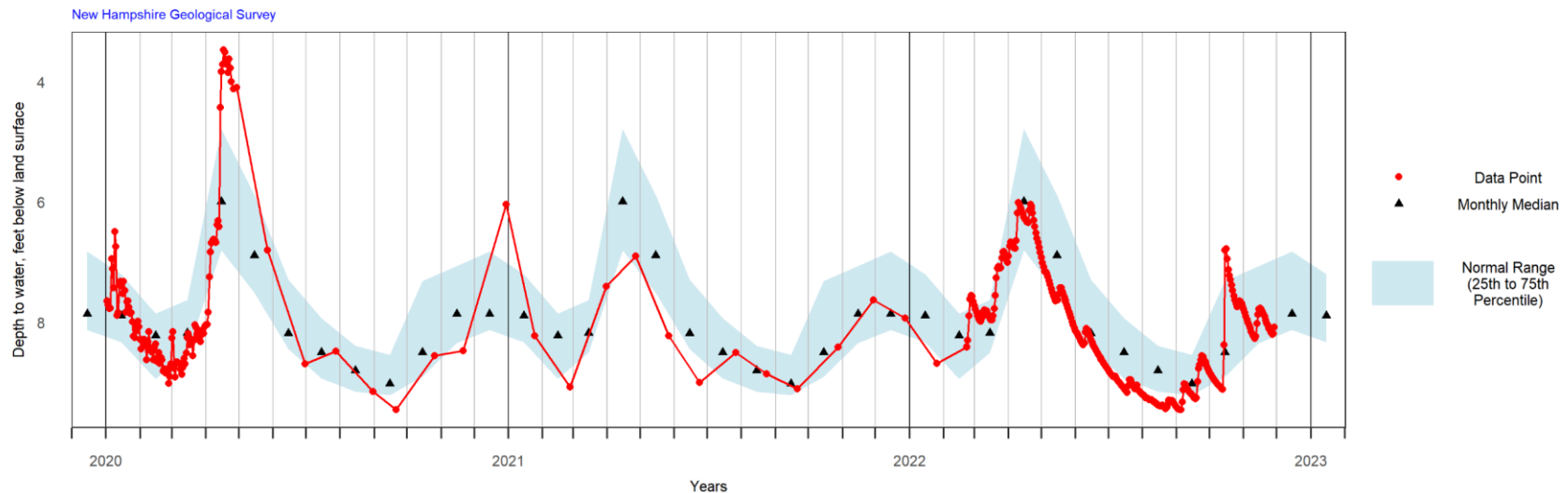
BBW-53: Barrington, NH Overburden Well

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

2021 - 2022

● Data Point   ▲ Monthly Median

Plot created: 2022-12-02

CBW-34: Campton, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

Percentile Classes

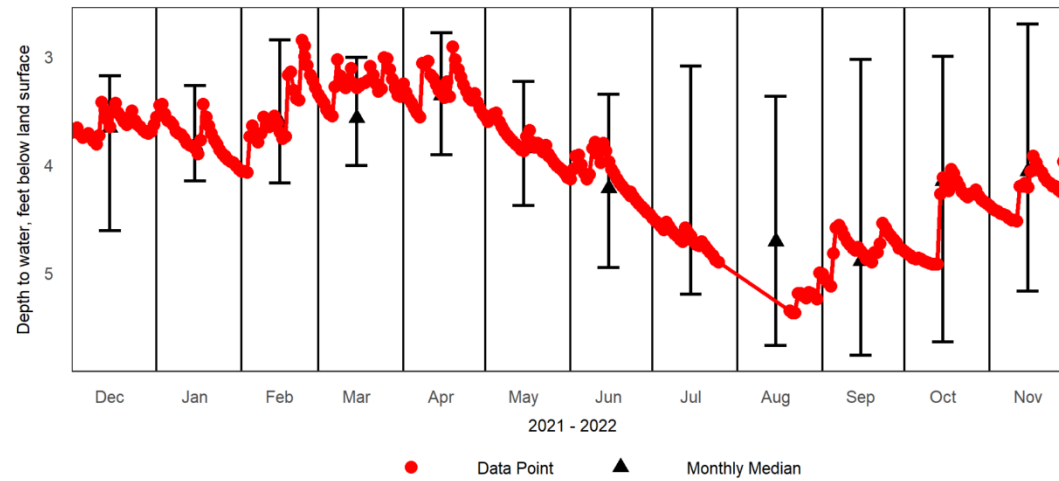|					
Data Point	Monthly Median	<10, Much Below Normal	10 - 25, Below Normal	25 - 75, Normal	75 - 90, Above Normal	>90, Much Above Normal

Plot created: 2022-12-02
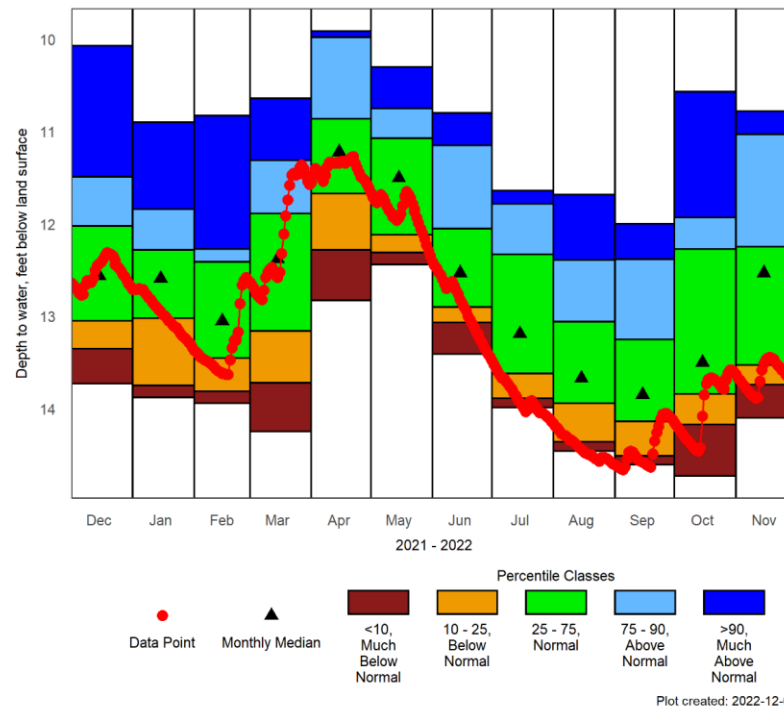
Period of Record Monthly Statistics for CBW-34
Depth to water, feet below land surface
Most recent depth to water in CBW-34: 13.52 feet on 2022-11-29

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	13.88	13.75	13.02	12.59	12.28	11.84	10.90	28
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	13.35	13.05	12.56	12.02	11.49	10.07	27

Table created: 2022-12-02

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CBW-34: Campton, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

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

Plot created: 2022-12-02

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

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

Data Point — Monthly Median ▲

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for CVW-02R
Depth to water, feet below land surface
Most recent depth to water in CVW-02R: 41.94 feet on 2022-11-29

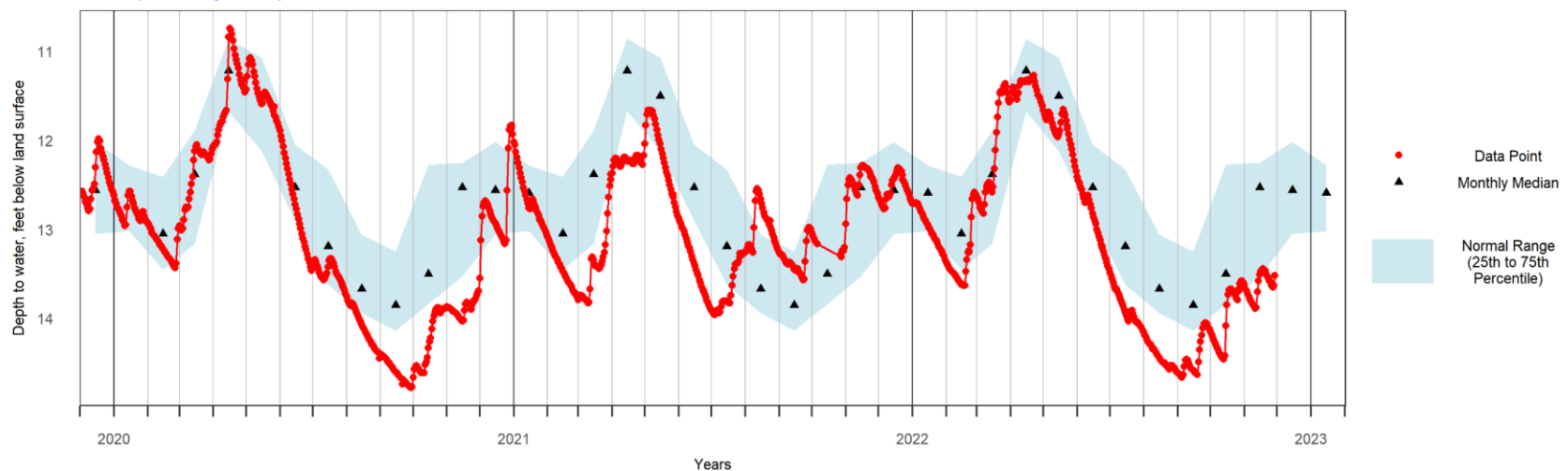| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	44.39	43.83	42.24	41.20	39.04	36.89	34.30	56
Feb	44.54	43.38	42.30	41.03	39.36	37.08	34.53	54
Mar	44.35	43.76	42.47	40.88	39.19	37.03	34.59	55
Apr	44.24	43.19	42.08	40.55	39.00	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	43.47	42.21	41.19	39.05	36.58	34.44	55

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

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

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

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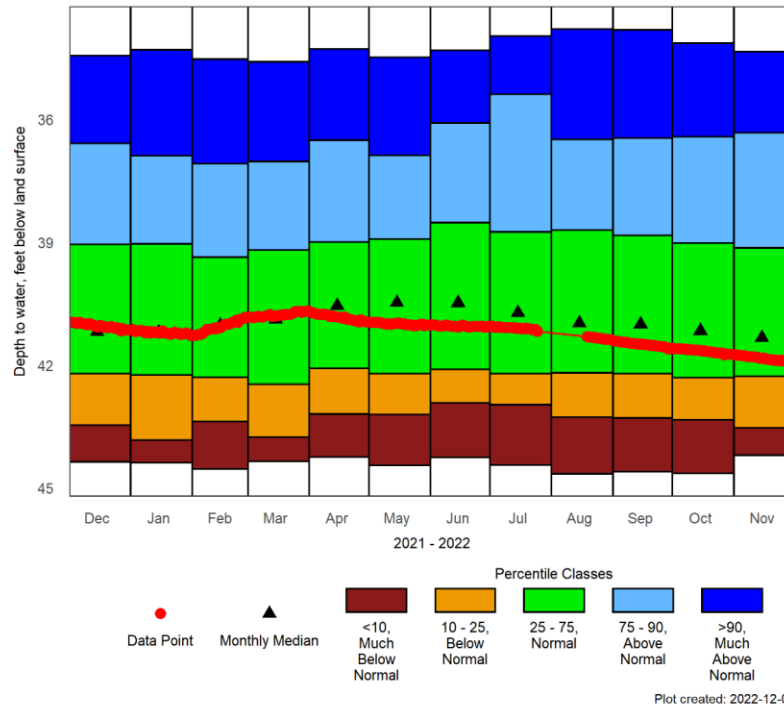Normal Range (25th to 75th Percentile)

Plot created: 2022-12-02

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

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for CVW-04
Depth to water, feet below land surface
Most recent depth to water in CVW-04: 18.38 feet on 2022-11-29

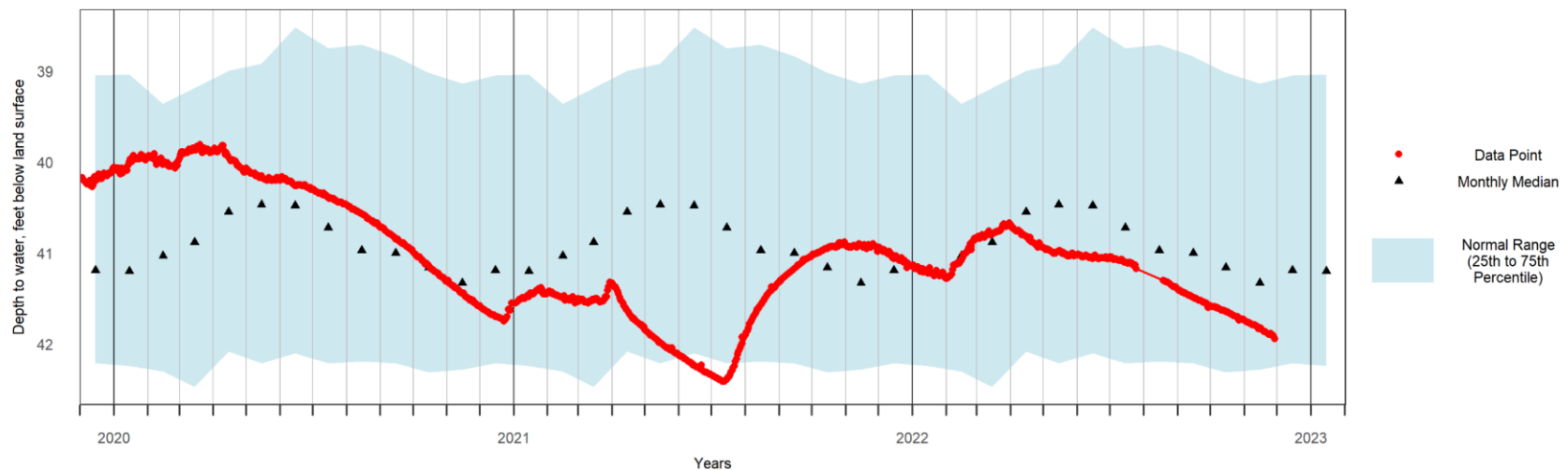| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	20.30	18.98	18.65	17.82	16.72	16.06	14.74	56
Feb	20.08	19.12	18.44	17.79	16.73	15.98	15.24	54
Mar	19.54	18.58	17.85	17.32	16.35	15.56	14.58	56
Apr	19.00	17.48	16.87	16.16	15.32	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	18.47	17.73	16.38	15.87	15.28	55

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

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

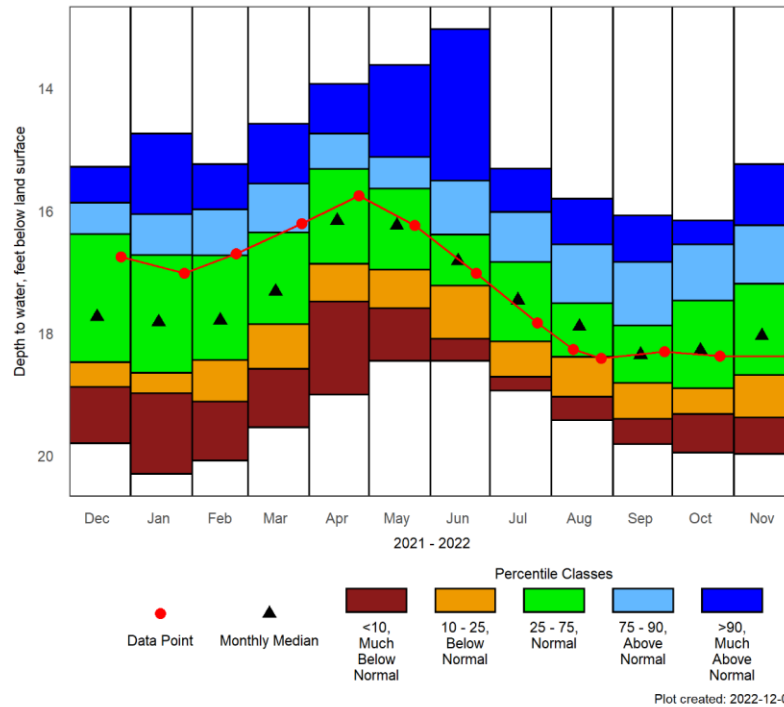Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Data Point

Monthly Median

Normal Range (25th to 75th Percentile)

Years

Plot created: 2022-12-02

DDW-46: Deerfield, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for DDW-46
Depth to water, feet below land surface
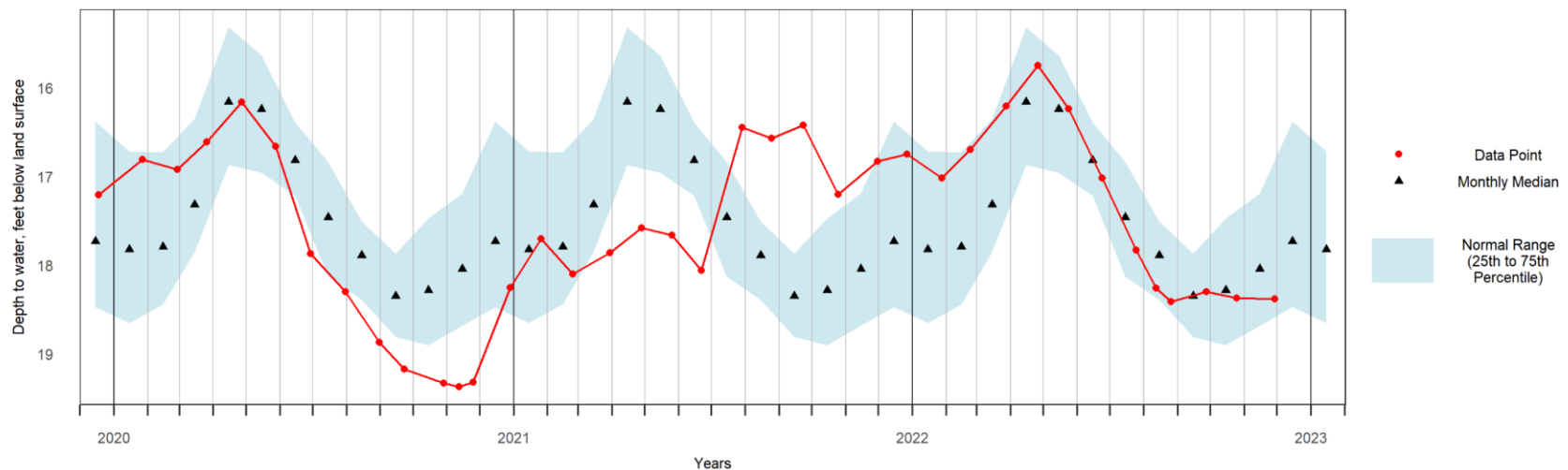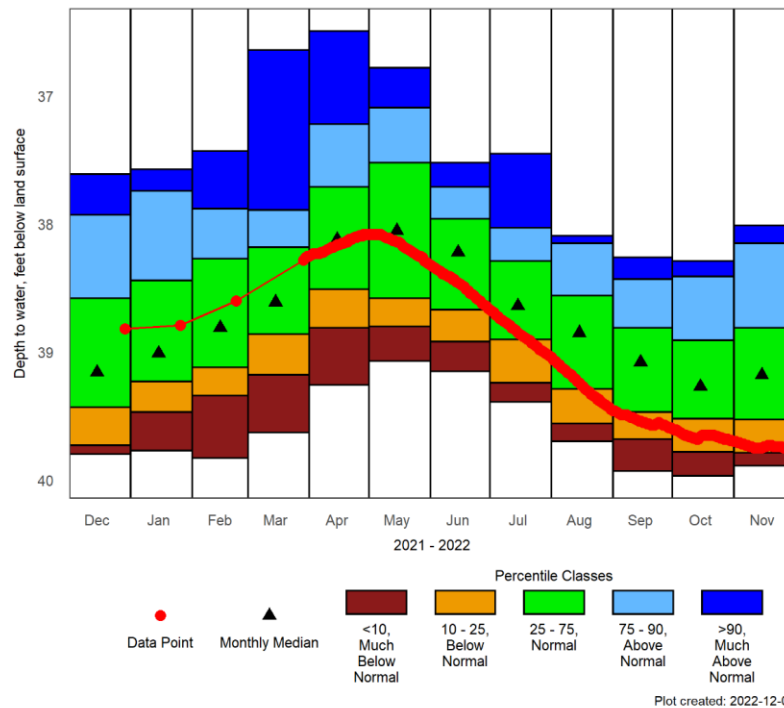Most recent depth to water in DDW-46: 39.73 feet on 2022-11-30

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	39.77	39.47	39.23	39.01	38.44	37.74	37.57	29
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	39.73	39.43	39.16	38.58	37.93	37.61	29

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

DDW-46: Deerfield, 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: 2022-12-02

EPW-90: Epping, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for EPW-90
Depth to water, feet below land surface
Most recent depth to water in EPW-90: 29.75 feet on 2022-11-30

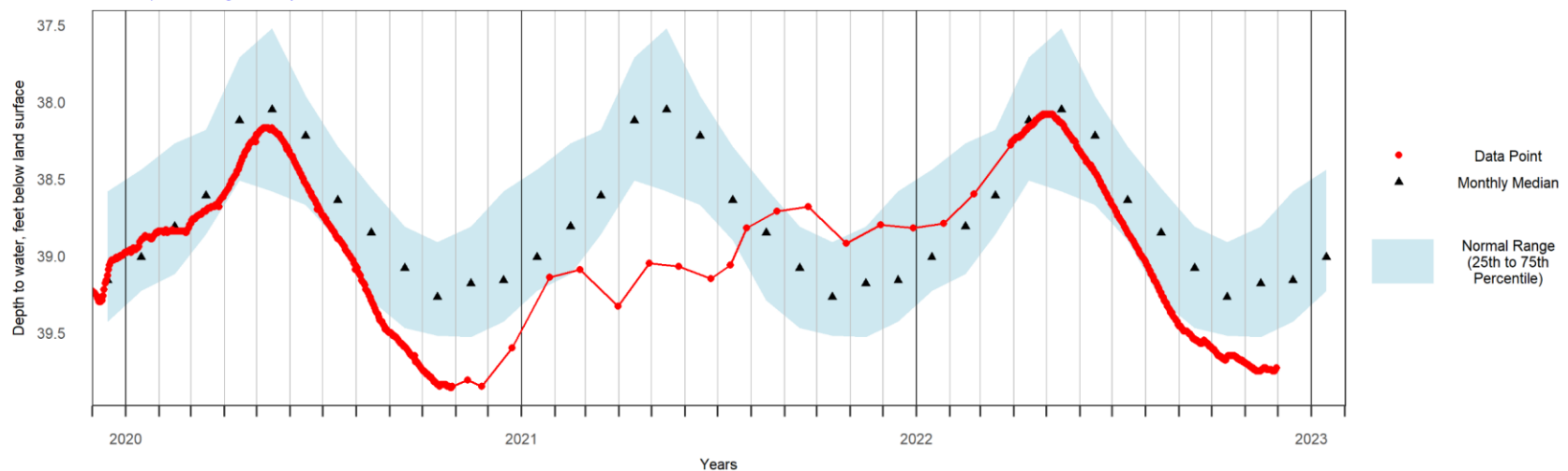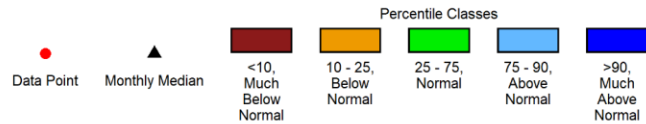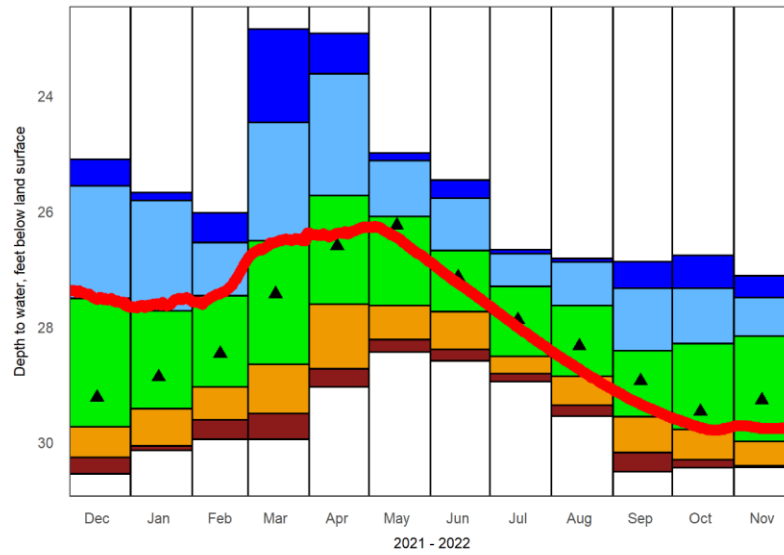| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	30.14	30.06	29.42	28.87	27.72	25.81	25.67	16
Feb	29.95	29.61	29.04	28.46	27.46	26.54	26.03	16
Mar	29.95	29.50	28.65	27.43	26.51	24.46	22.84	15
Apr	29.04	28.73	27.61	26.60	25.73	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	30.26	29.73	29.22	27.51	25.56	25.10	15

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) by USGS

EPW-90: Epping, 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: 2022-12-02

FKW-01: Franklin, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes
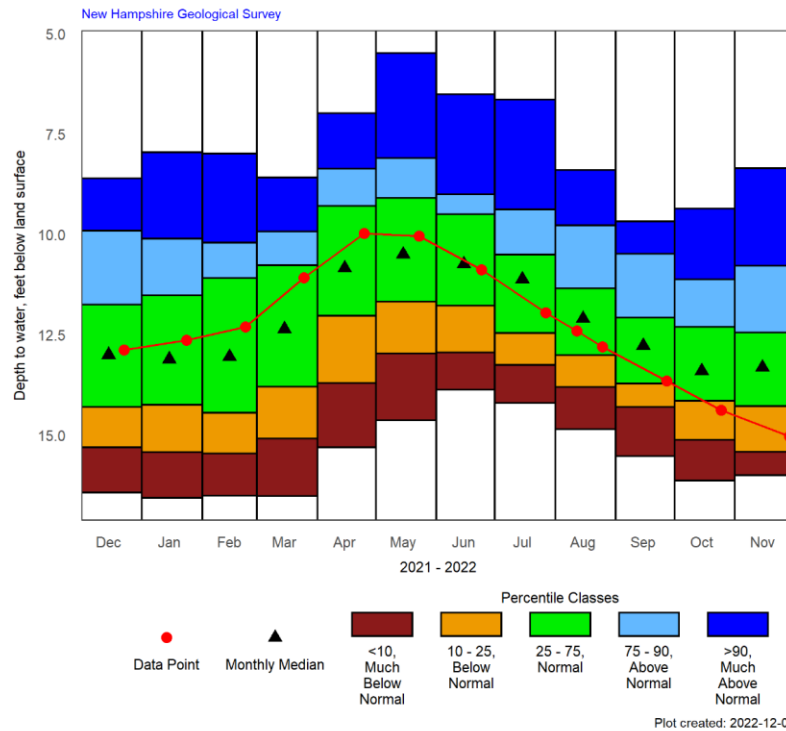
Period of Record Monthly Statistics for FKW-01
Depth to water, feet below land surface
Most recent depth to water in FKW-01: 15.03 feet on 2022-11-29

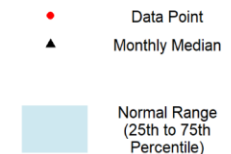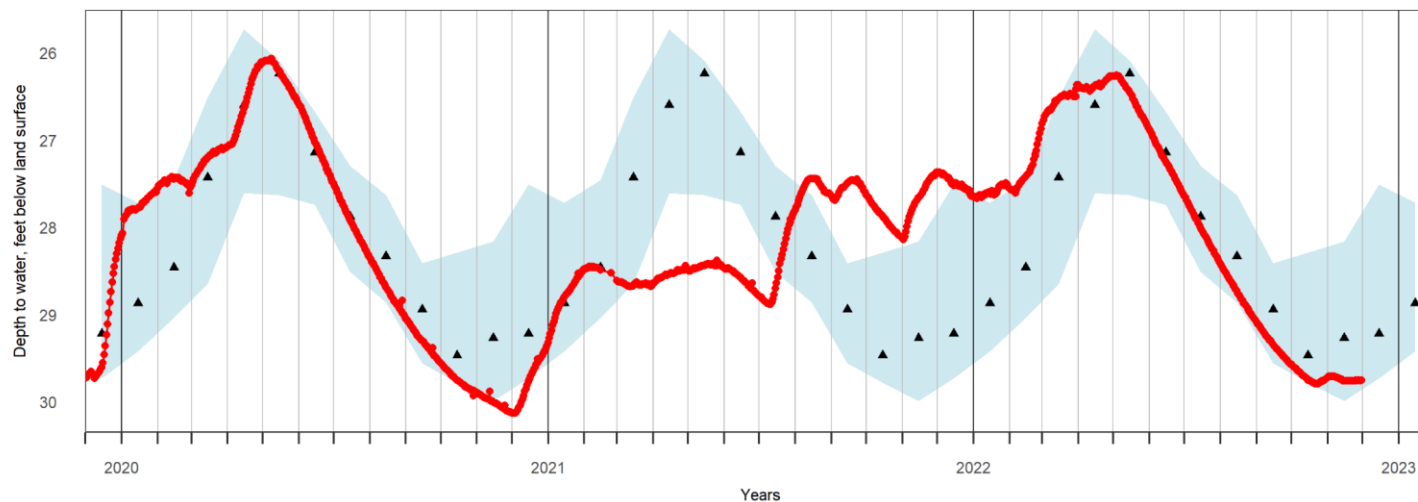| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.57	15.43	14.25	13.11	11.52	10.11	7.96	53
Feb	16.51	15.46	14.45	13.05	11.09	10.21	7.99	50
Mar	16.52	15.09	13.80	12.36	10.77	9.93	8.59	54
Apr	15.31	13.71	12.03	10.84	9.29	8.36	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	15.31	14.30	13.00	11.75	9.91	8.61	51

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) by USGS

Plot created: 2022-12-02

FKW-01: Franklin, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

GSW-75: Greenfield, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

Data Point	Monthly Median	

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for GSW-75
Depth to water, feet below land surface
Most recent depth to water in GSW-75: 62.65 feet on 2022-11-27

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	65.26	64.54	62.98	62.52	60.34	59.25	58.58	26
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	64.22	62.86	62.30	60.27	59.48	58.77	26

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) by USGS

GSW-75: Greenfield, NH Overburden Well

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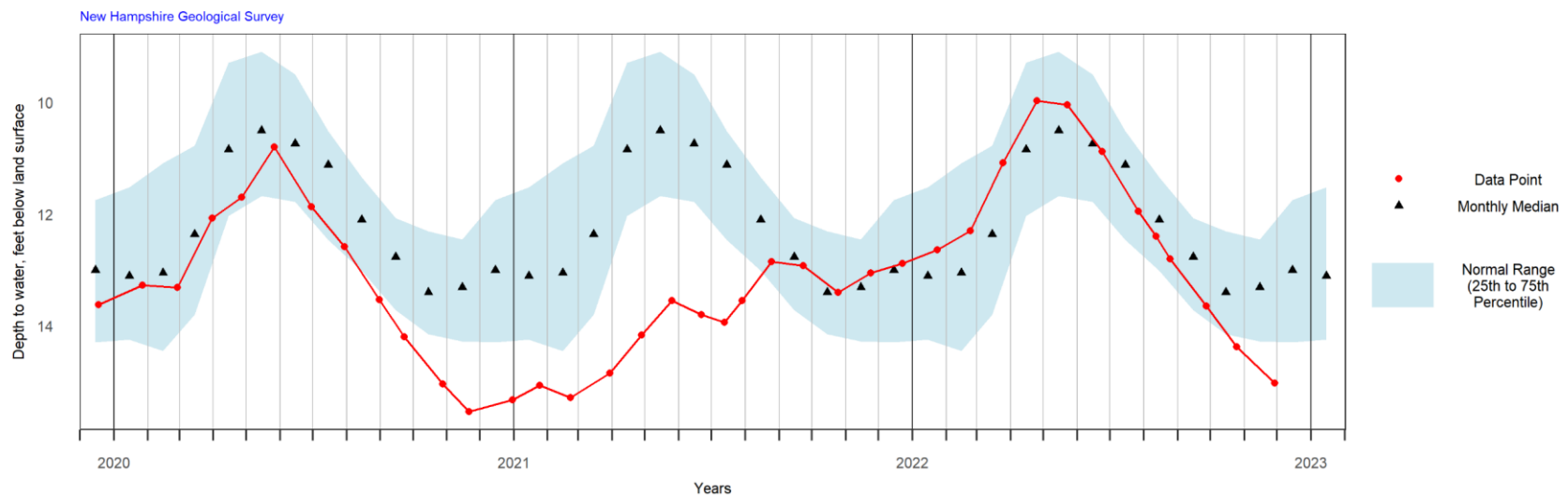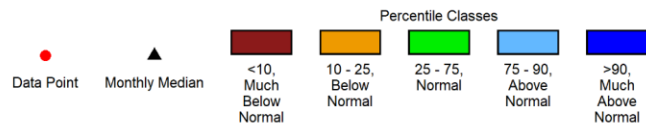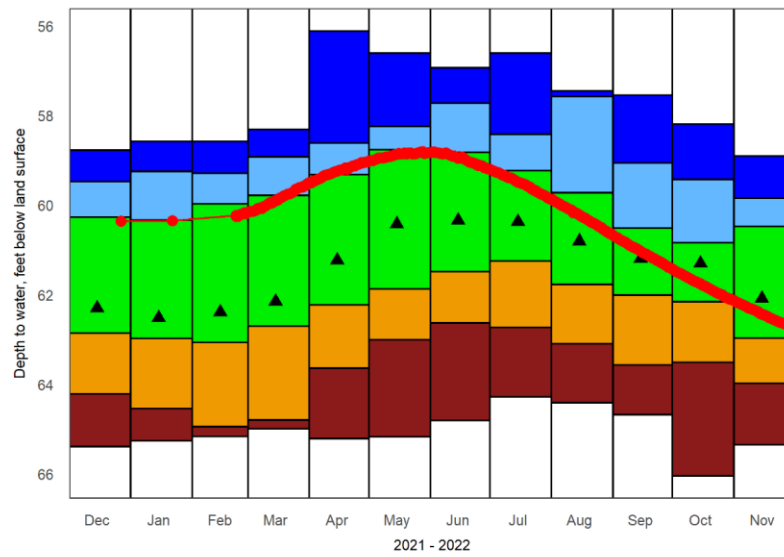
New Hampshire Geological Survey

Years

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

Plot created: 2022-12-02

LCW-1: Lancaster, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for LCW-1
Depth to water, feet below land surface
Most recent depth to water in LCW-1: 2.68 feet on 2022-11-30

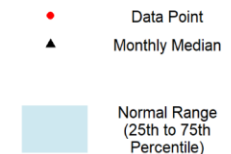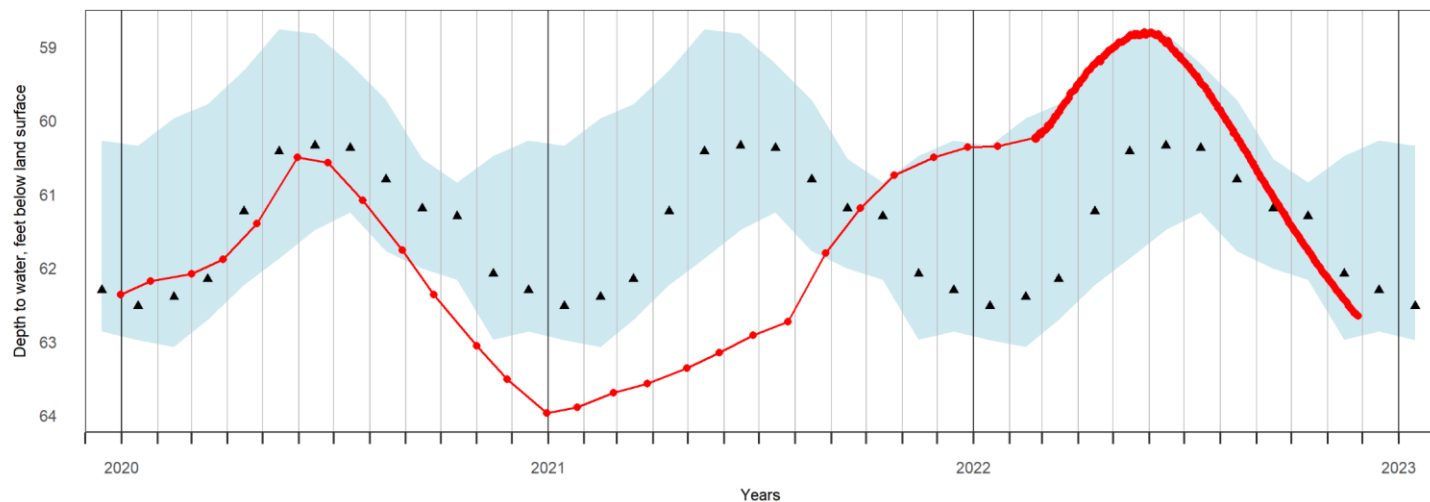| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	2.57	2.01	1.85	1.54	1.25	0.72	0.34	44
Feb	2.73	2.26	1.80	1.57	1.10	0.54	0.04	42
Mar	2.34	2.00	1.58	1.00	0.49	0.17	0.07	39
Apr	2.28	1.84	1.23	0.96	0.57	0.25	0.00	53
May	2.74	2.24	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	2.98	2.46	2.12	1.80	1.49	1.08	0.84	54
Dec	2.66	2.47	1.95	1.65	1.22	0.99	0.68	46

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) by USGS

LCW-1: Lancaster, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

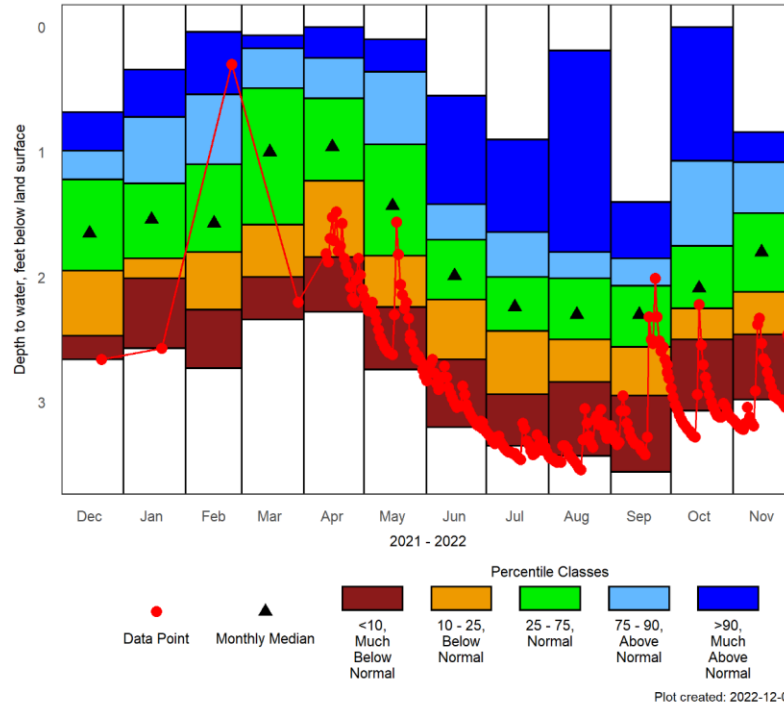|	
Data Point	
Monthly Median	
Normal Range (25th to 75th Percentile)	

Plot created: 2022-12-02

LLW-19: Lisbon, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

Data Point · Monthly Median ▲

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: 2022-12-02

Period of Record Monthly Statistics for LLW-19
Depth to water, feet below land surface
Most recent depth to water in LLW-19: 14.06 feet on 2022-11-29

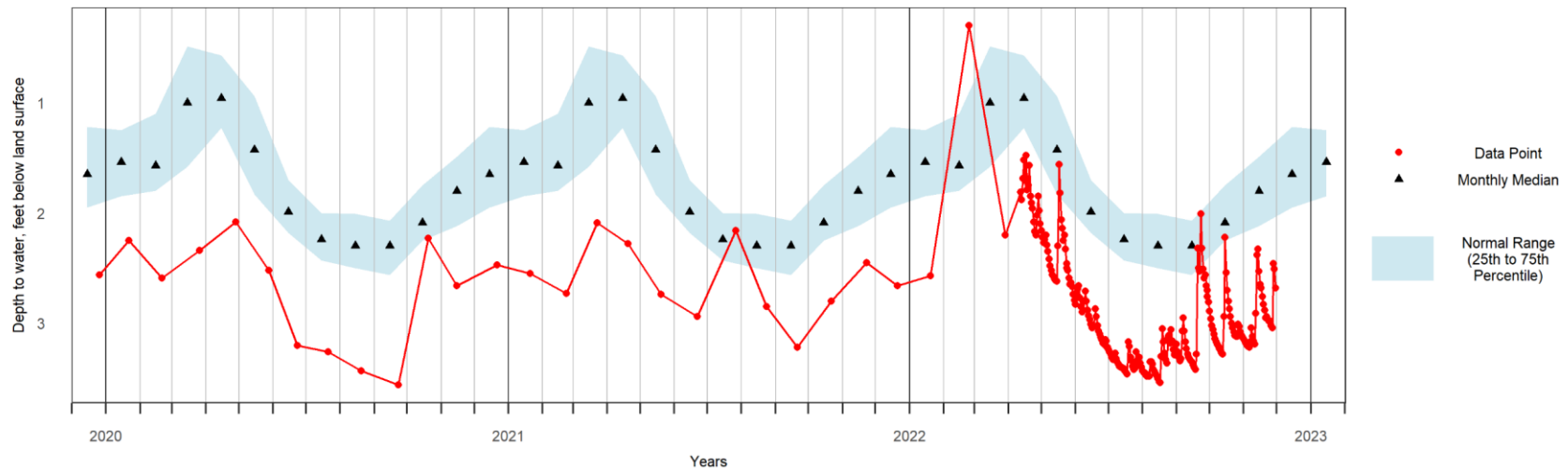| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	14.69	13.97	13.16	12.70	11.55	11.07	10.12	28
Feb	14.24	14.15	13.48	13.02	12.35	11.10	10.02	26
Mar	14.16	14.01	13.59	12.83	12.22	11.08	9.40	27
Apr	14.14	13.50	13.26	12.74	12.30	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	14.20	14.03	13.55	12.42	11.44	10.98	28

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

LLW-19: Lisbon, NH Overburden Well

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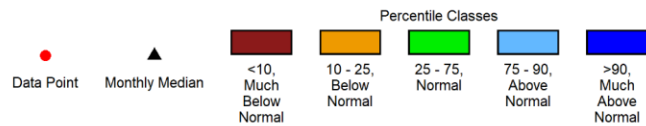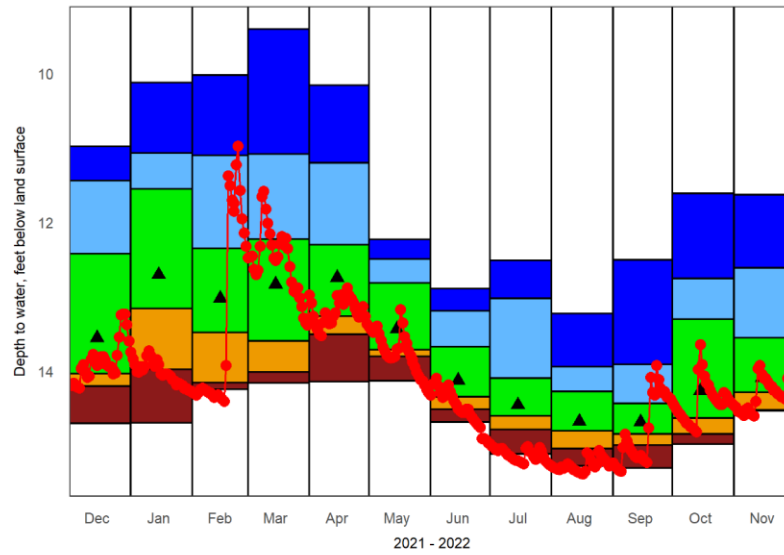
New Hampshire Geological Survey

Years

Data Point · Monthly Median ▲

Normal Range (25th to 75th Percentile)

Plot created: 2022-12-02

NAW-218: Nashua, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

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 2022-11-28

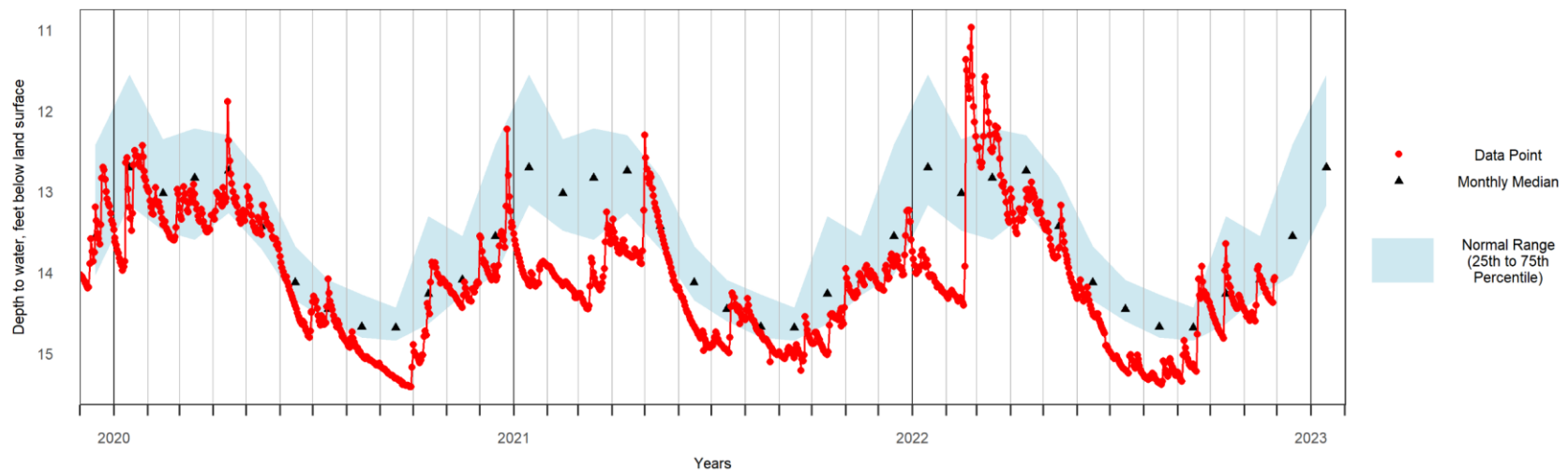| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	31.87	29.49	28.45	28.20	27.65	27.02	26.31	53
Feb	31.90	28.86	28.53	28.15	27.47	26.88	26.33	56
Mar	30.68	29.27	28.34	27.54	27.16	26.51	25.54	55
Apr	29.02	28.13	27.60	27.13	26.47	26.22	24.97	52
May	29.42	27.90	27.63	27.32	26.86	26.61	24.78	53
Jun	28.82	28.31	27.96	27.76	27.22	26.80	25.98	54
Jul	29.95	29.00	28.43	27.95	27.48	26.91	26.39	54
Aug	30.30	29.86	28.82	28.40	27.94	27.60	26.62	54
Sep	31.40	29.79	29.30	28.66	28.16	27.81	26.44	55
Oct	32.04	30.32	29.31	28.68	28.34	27.43	26.67	55
Nov	33.00	29.98	29.03	28.34	27.77	27.31	26.62	55
Dec	32.44	29.11	28.67	28.22	27.50	27.13	26.08	54

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

NAW-218: Nashua, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

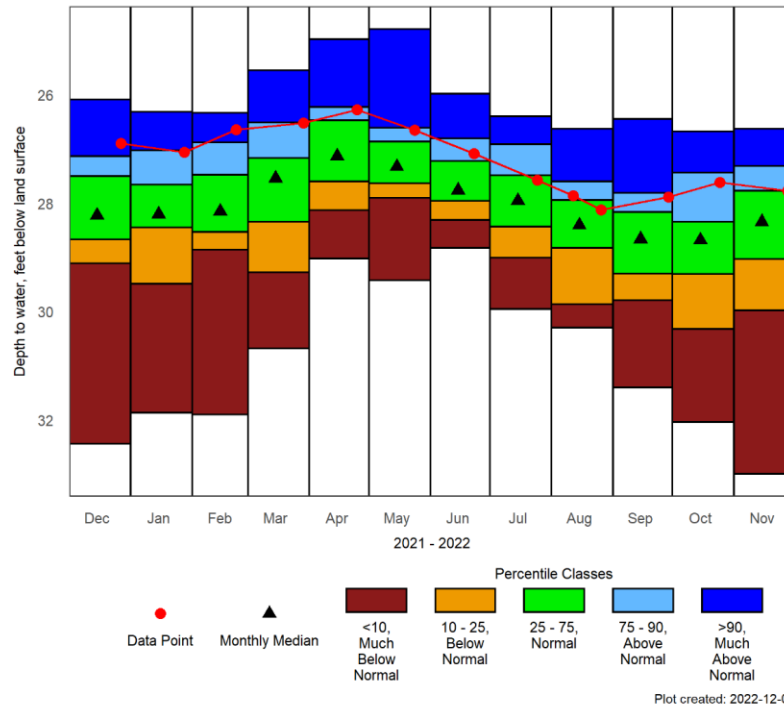| Data Point | Monthly Median | Normal Range (25th to 75th Percentile) |

Plot created: 2022-12-02

NFW-53: New Durham, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for NFW-53
Depth to water, feet below land surface
Most recent depth to water in NFW-53: 19.15 feet on 2022-11-29

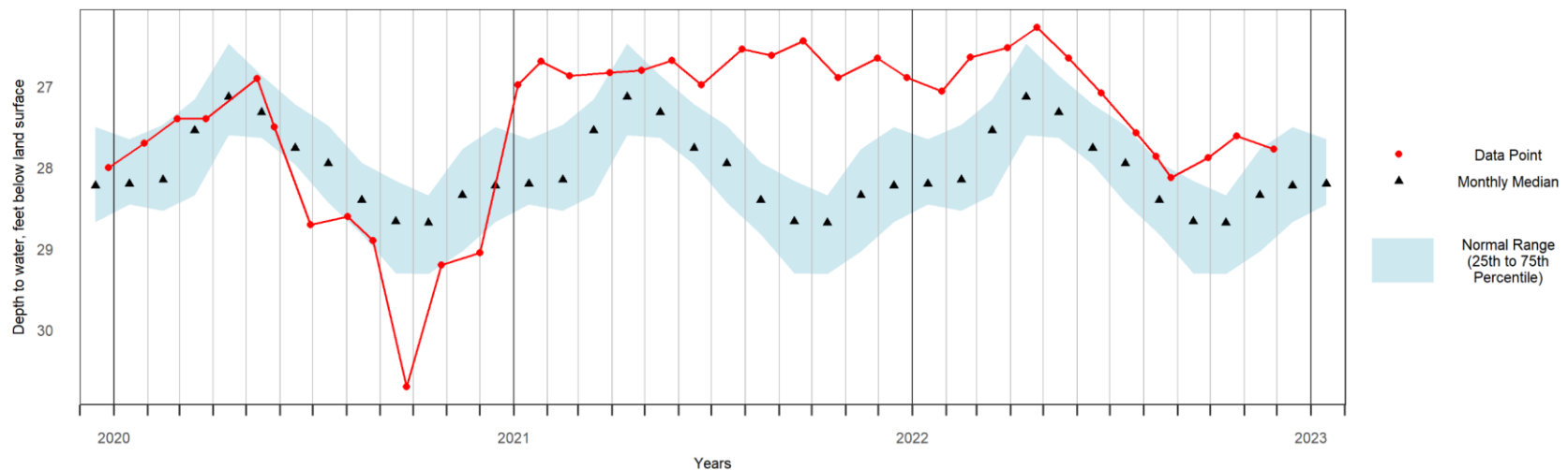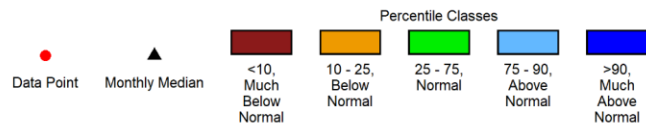| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	20.11	19.36	19.14	18.89	18.76	18.53	18.41	27
Feb	19.64	19.51	19.35	19.09	18.70	18.47	18.15	28
Mar	19.74	19.34	19.10	18.68	18.44	18.02	17.93	29
Apr	20.31	19.06	18.73	18.56	18.44	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	19.45	19.24	18.93	18.75	18.49	18.09	28

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

NFW-53: New Durham, NH Overburden Well

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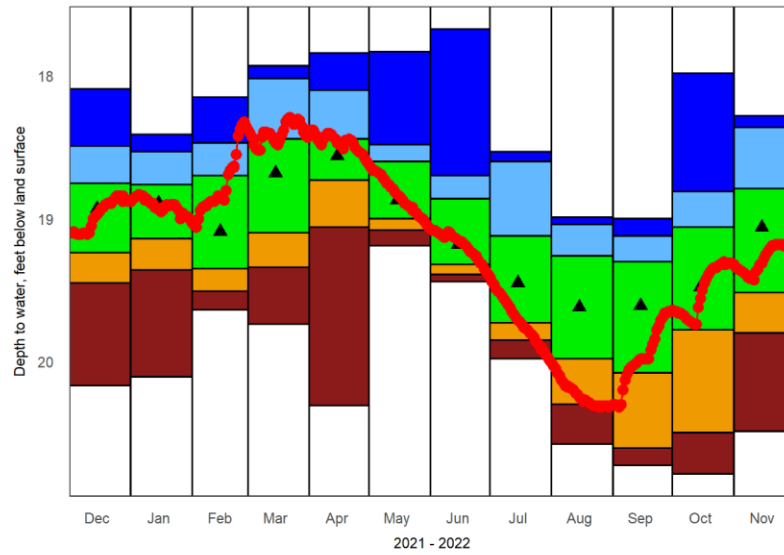
New Hampshire Geological Survey

Years

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

Plot created: 2022-12-02

NLW-01: New London, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Depth to water, feet below land surface

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for NLW-01
Depth to water, feet below land surface
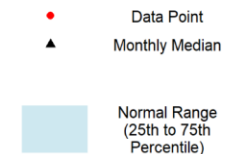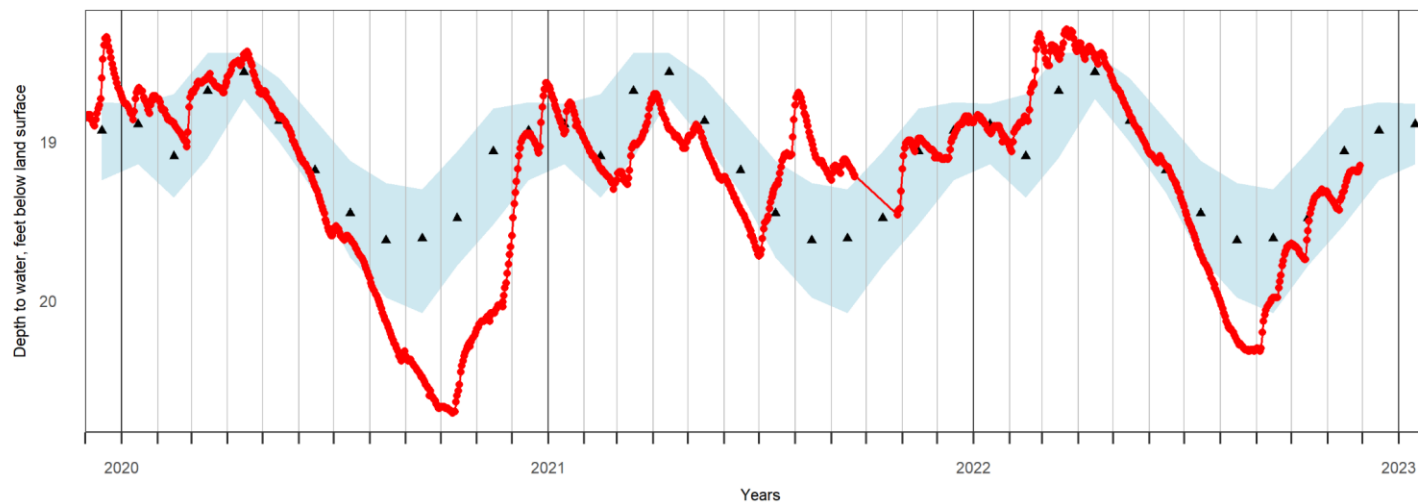Most recent depth to water in NLW-01: 8.84 feet on 2022-11-28

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.42	13.34	9.86	8.32	7.31	6.24	4.09	72
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	15.28	10.85	7.94	6.10	4.63	3.60	69

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) by USGS

NLW-01: New London, NH Overburden Well

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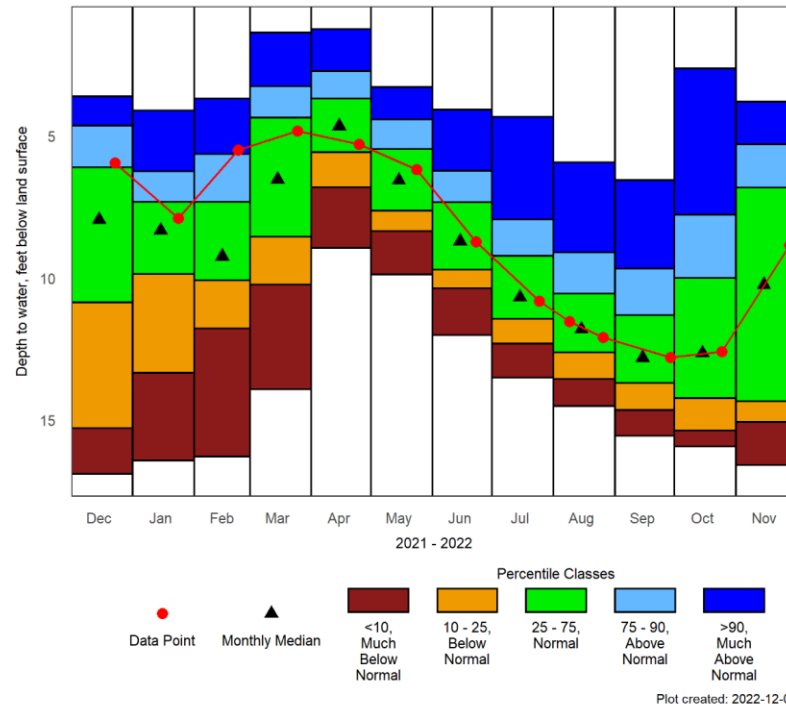
New Hampshire Geological Survey

Depth to water, feet below land surface

Years

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

Plot created: 2022-12-02

NPW-03: Newport, NH Overburden Well, Deep Couplet Member
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

Data Point   Monthly Median

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

Plot created: 2022-12-02
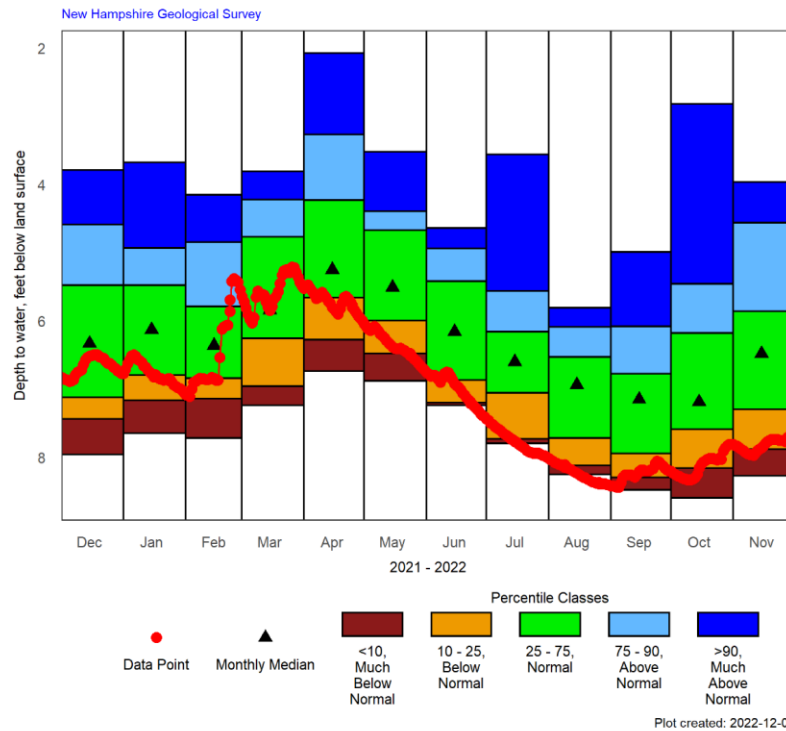
Period of Record Monthly Statistics for NPW-03
Depth to water, feet below land surface
Most recent depth to water in NPW-03: 7.71 feet on 2022-11-28

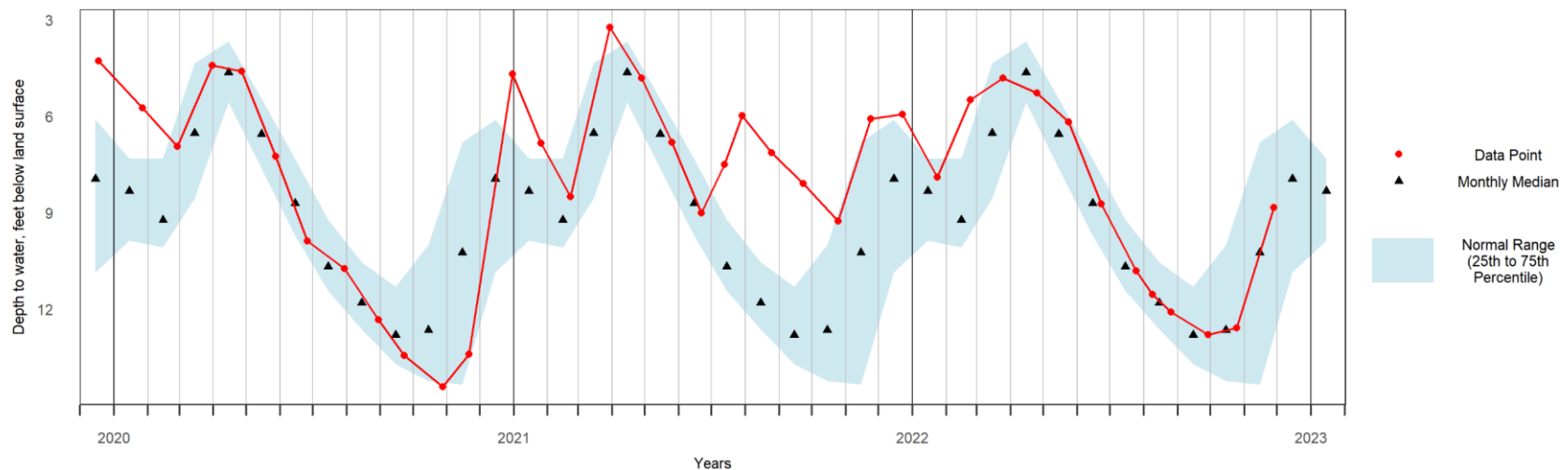| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	7.65	7.17	6.80	6.13	5.48	4.93	3.68	27
Feb	7.72	7.14	6.84	6.36	5.79	4.85	4.15	26
Mar	7.24	6.96	6.26	5.84	4.77	4.22	3.81	25
Apr	6.74	6.28	5.66	5.25	4.23	3.27	2.07	29
May	6.88	6.48	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	27
Oct	8.60	8.16	7.59	7.19	6.18	5.46	2.82	29
Nov	8.27	7.88	7.30	6.48	5.86	4.56	3.96	28
Dec	7.96	7.44	7.12	6.33	5.48	4.59	3.79	26

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) 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: 2022-12-02

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

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for NPW-06
Depth to water, feet below land surface
Most recent depth to water in NPW-06: 8.3 feet on 2022-11-28

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	7.74	7.40	6.60	6.06	5.59	4.86	3.74	27
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	8.34	7.50	6.55	5.94	4.57	3.82	28
Dec	8.05	7.67	7.23	6.26	5.58	4.08	3.13	26

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

NPW-06: Newport, NH Overburden 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: 2022-12-02

OXW-38: Ossipee, NH Overburden Well

Annual Hydrograph with Historical Median and Percentile Classes

Period of Record Monthly Statistics for OXW-38
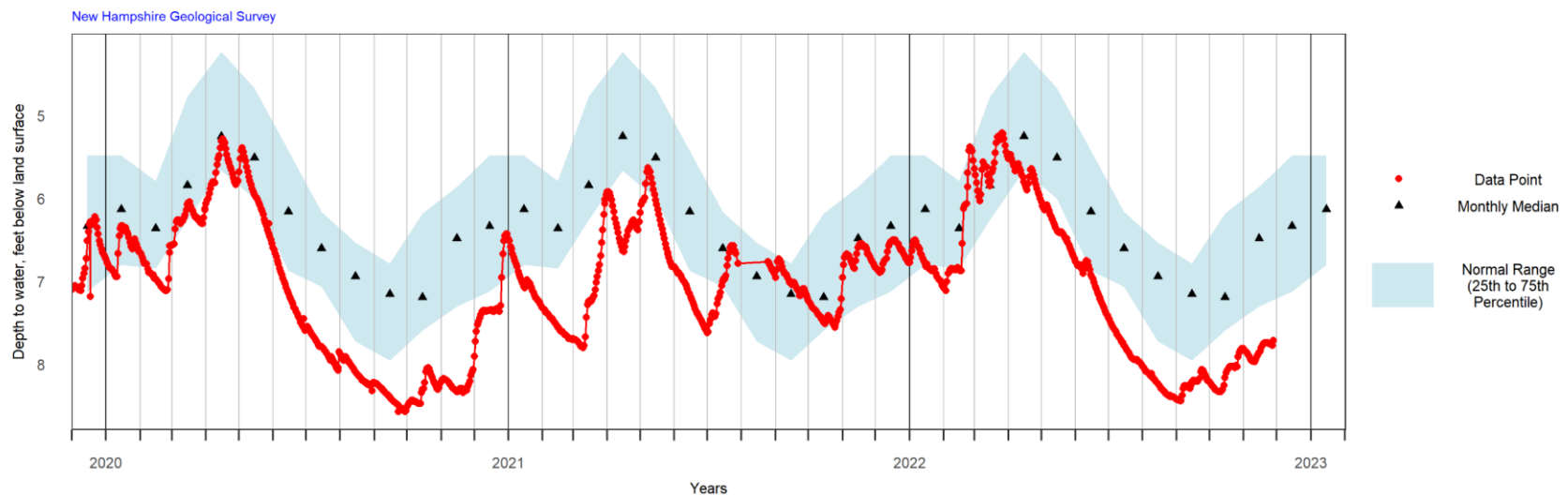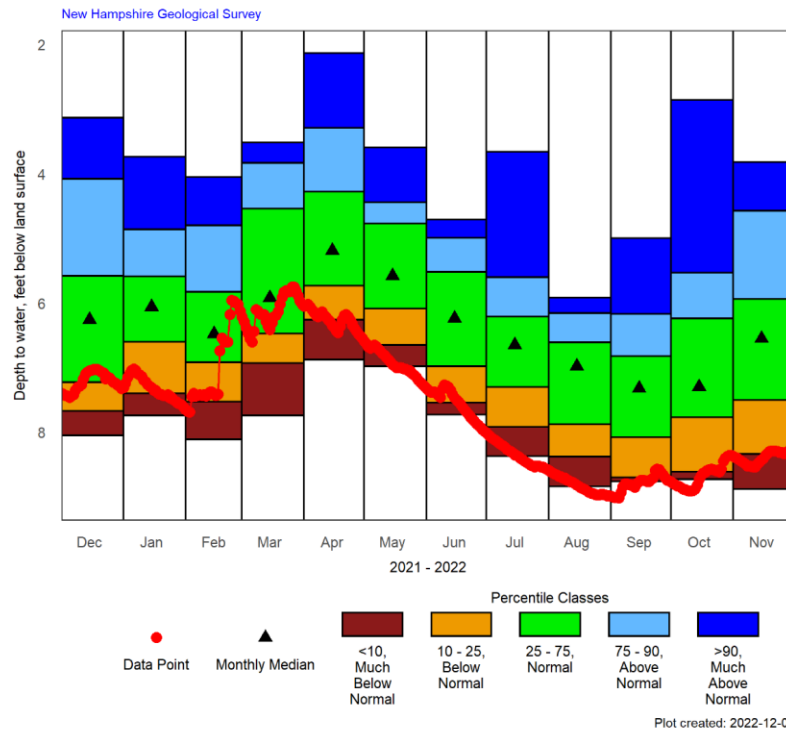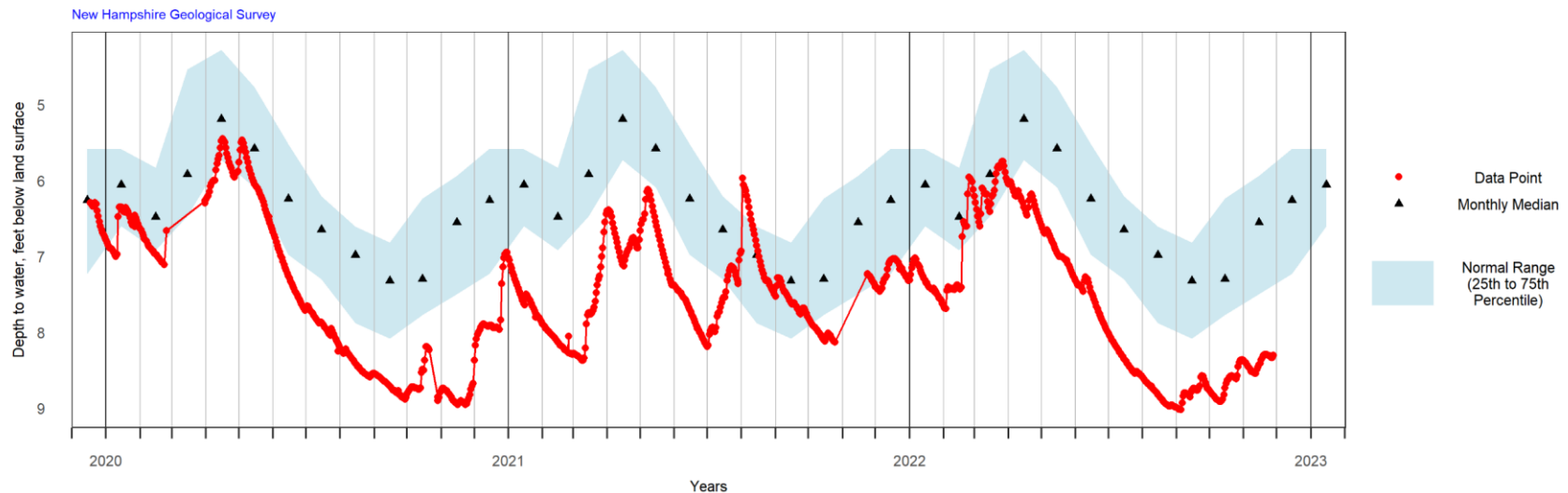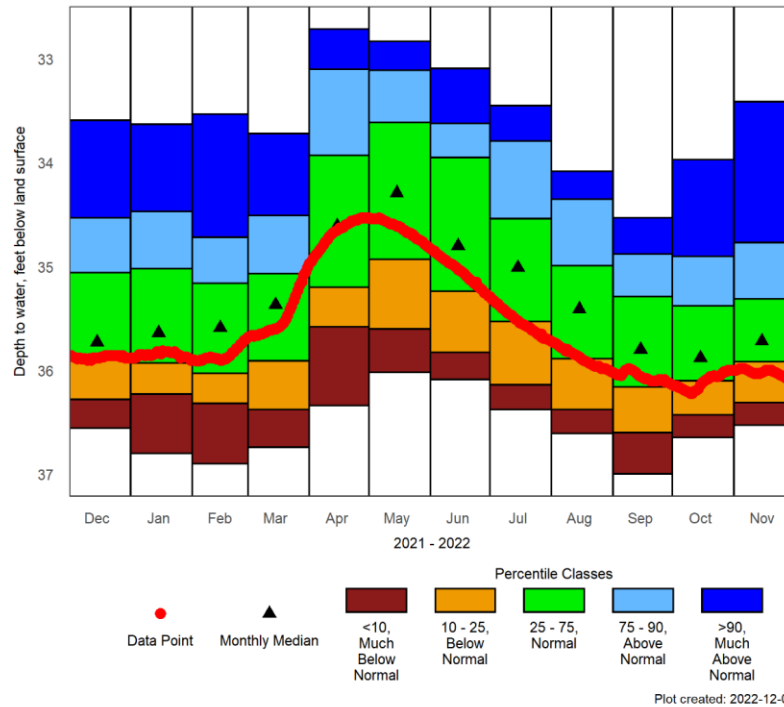Depth to water, feet below land surface
Most recent depth to water in OXW-38: 36.05 feet on 2022-11-29

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	36.80	36.23	35.93	35.64	35.02	34.47	33.63	26
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	36.28	35.89	35.73	35.06	34.53	33.59	27

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) by USGS

Percentile Classes

Data Point   Monthly Median

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

Plot created: 2022-12-02

OXW-38: Ossipee, NH Overburden Well

Groundwater Levels and Statistics for Past 3 Years

Data Point

Monthly Median

Normal Range
(25th to 75th Percentile)

Plot created: 2022-12-02

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

Annual Hydrograph with Historical Median and Percentile Classes

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for CVWB-01
Depth to water, feet below land surface
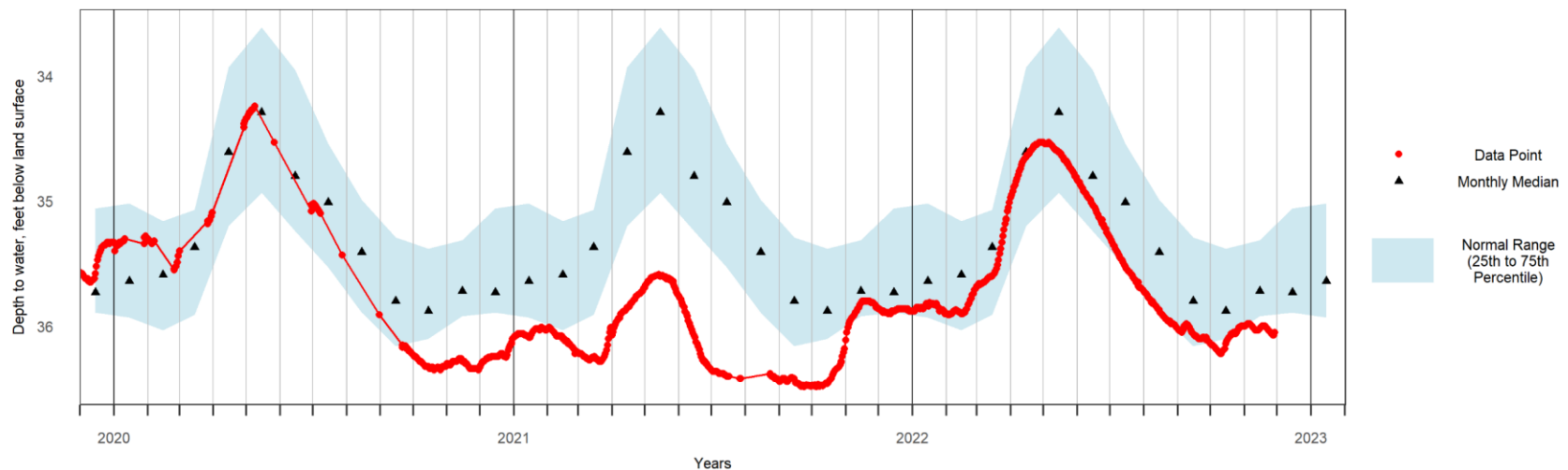Most recent depth to water in CVWB-01: 21.55 feet on 2022-11-28

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	20.99	20.97	20.89	19.95	19.58	18.72	18.21	13
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	22.24	19.95	18.55	17.82	14
Dec	21.93	21.92	21.55	19.98	19.74	18.19	17.47	13

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
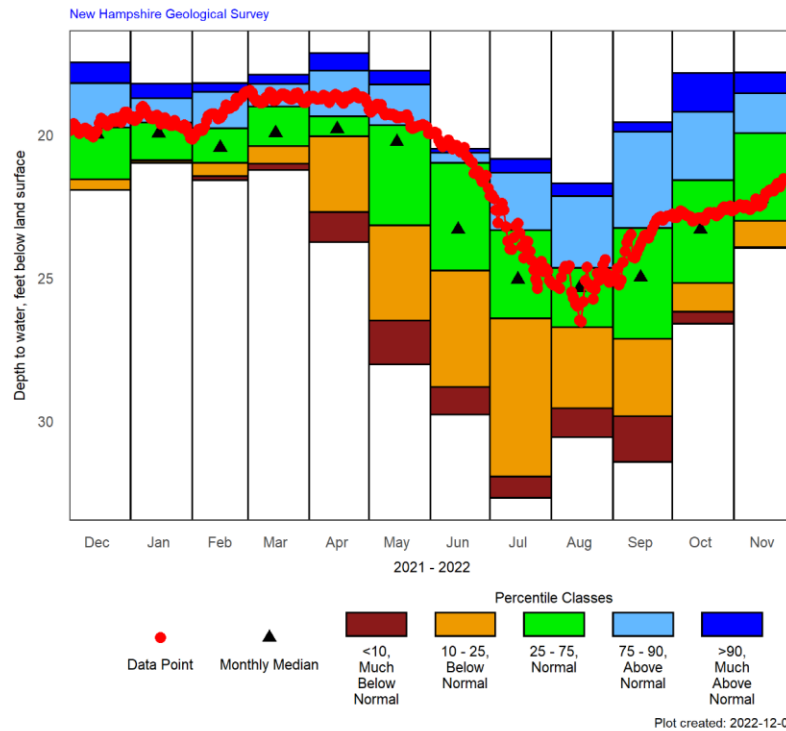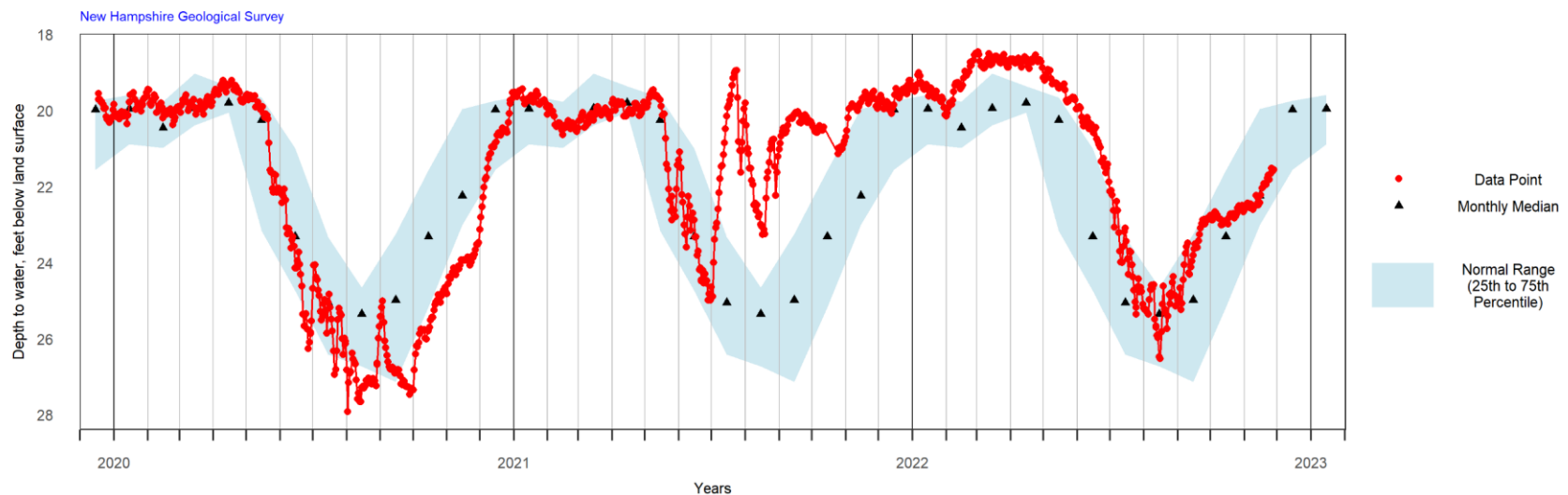version of the Hydrologic AnalySis Package (HASP) by USGS

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

Groundwater Levels and Statistics for Past 3 Years

Years

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

Plot created: 2022-12-02

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

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for CVWB-02
Depth to water, feet below land surface
Most recent depth to water in CVWB-02: 17.47 feet on 2022-11-28

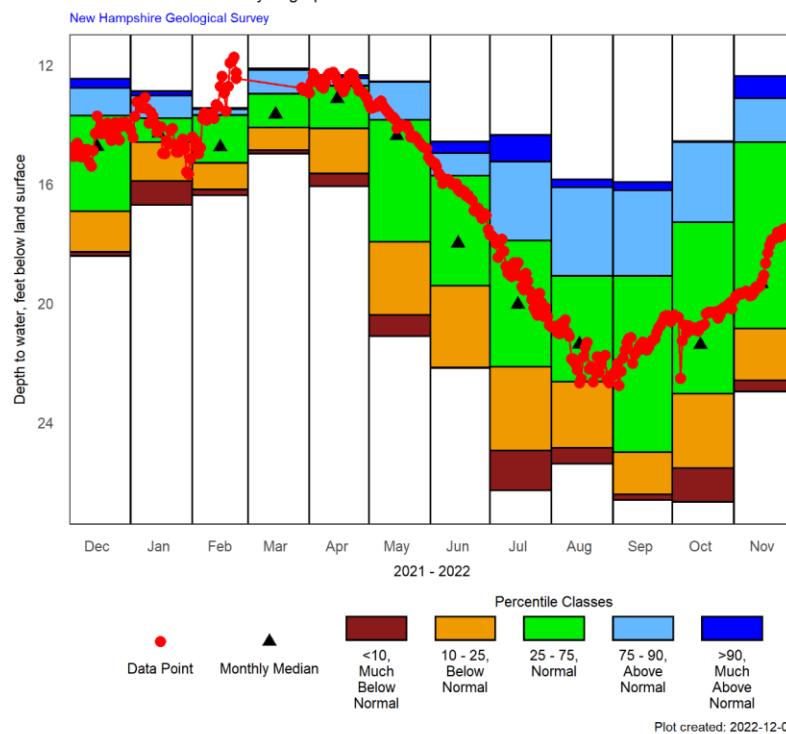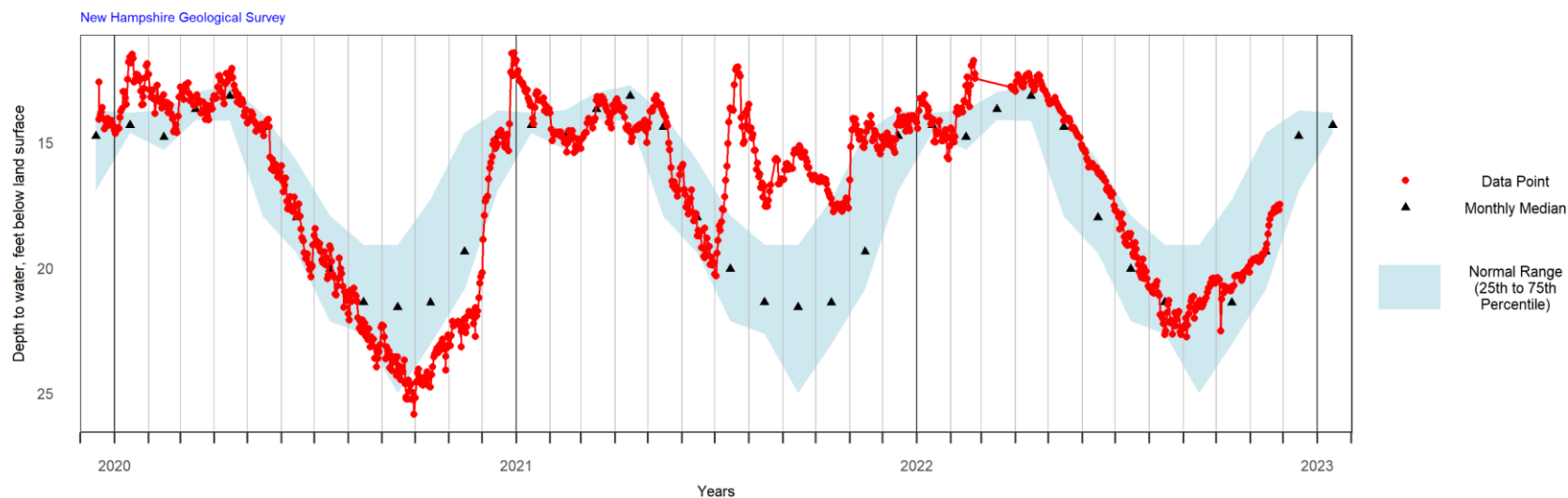| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.70	15.90	14.60	14.30	13.80	13.04	12.89	13
Feb	16.38	16.19	15.30	14.77	13.69	13.50	13.45	13
Mar	14.99	14.87	14.10	13.67	12.98	12.17	12.13	13
Apr	16.08	15.65	14.14	13.15	12.71	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	19.35	14.60	13.13	12.38	14
Dec	18.42	18.28	16.91	14.75	13.71	12.79	12.47	13

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

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

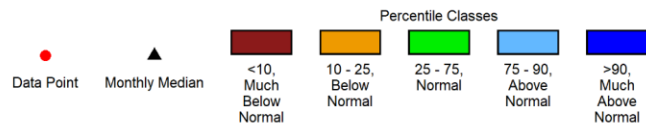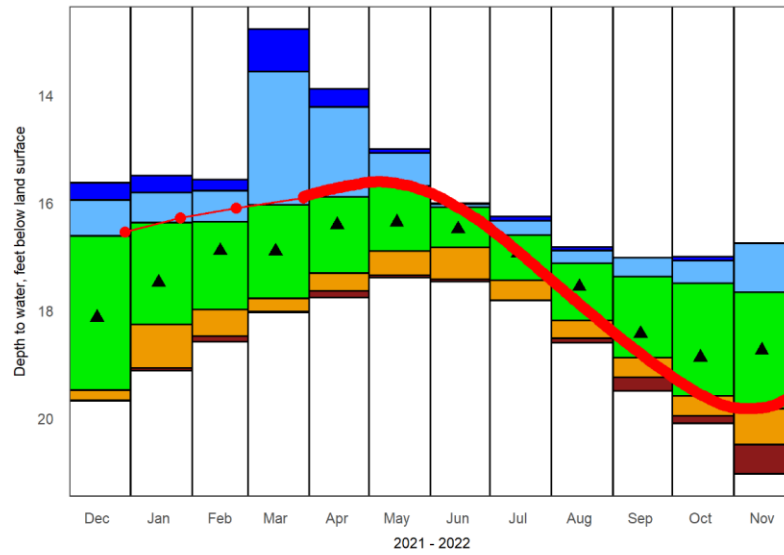### Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

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

Plot created: 2022-12-02

DDWB-01: Deerfield, NH Bedrock Well

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for DDWB-01
Depth to water, feet below land surface
Most recent depth to water in DDWB-01: 19.59 feet on 2022-11-30

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	19.12	19.07	18.26	17.48	16.37	15.81	15.50	13
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	13
Nov	21.04	20.49	19.83	18.74	17.66	16.76	16.75	14
Dec	19.68	19.67	19.48	18.13	16.62	15.95	15.63	13

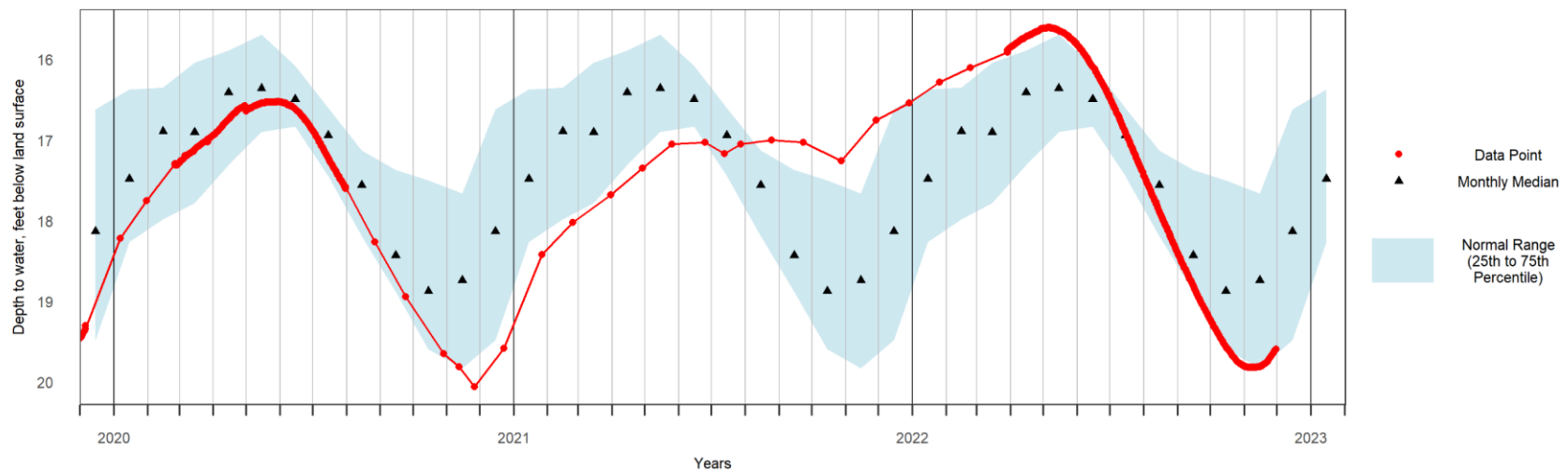Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) by USGS

DDWB-01: Deerfield, NH Bedrock Well

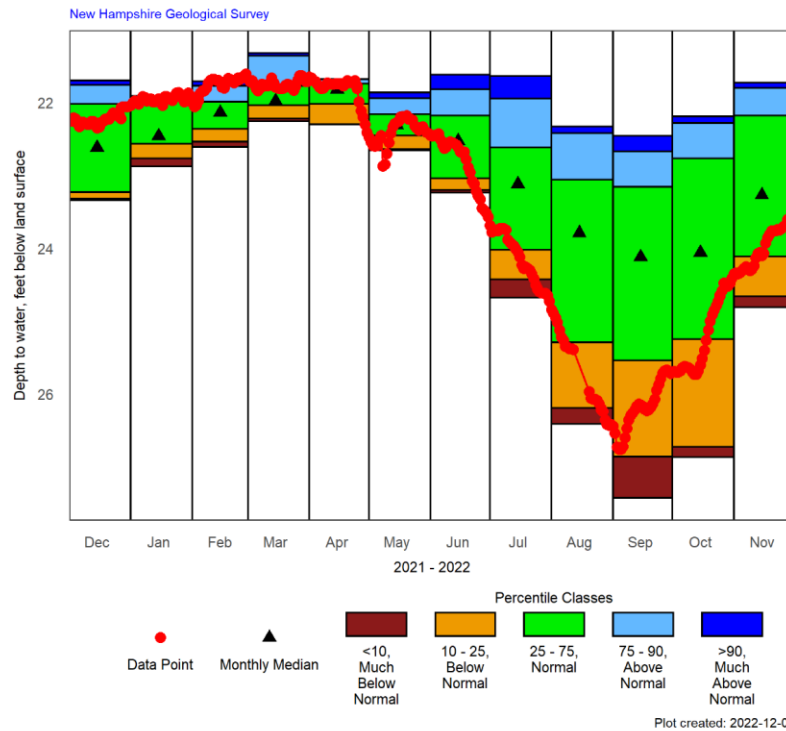### Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Years

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

Plot created: 2022-12-02

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

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

Data Point   Monthly Median

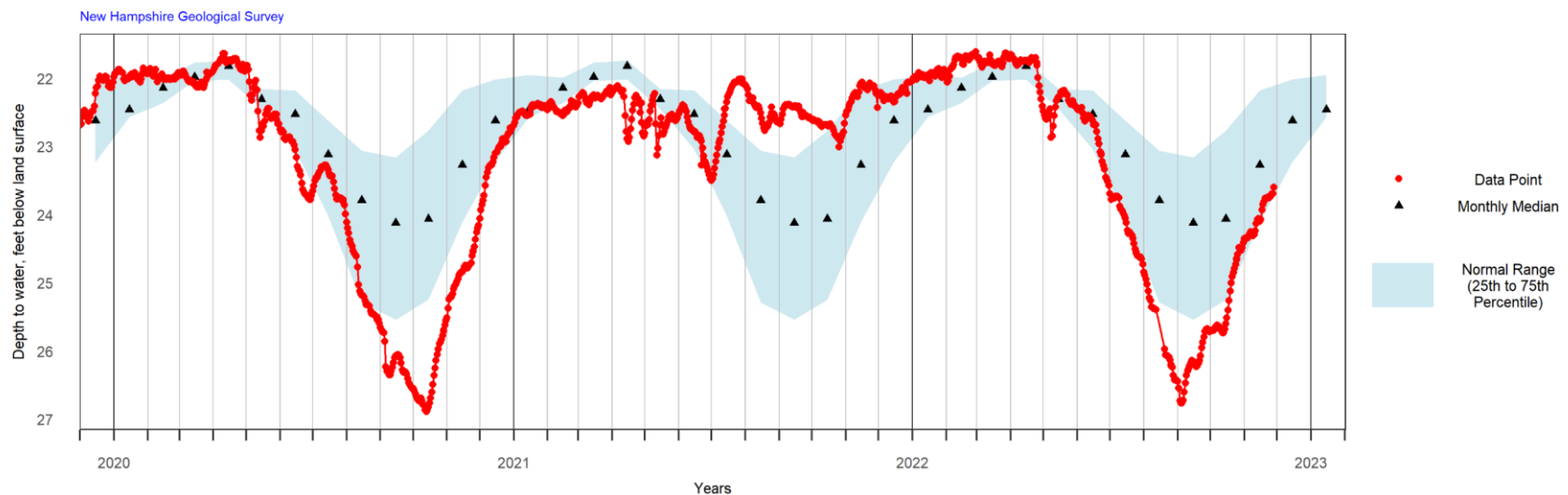|				
<10, Much Below Normal	10 - 25, Below Normal	25 - 75, Normal	75 - 90, Above Normal	>90, Much Above Normal

Plot created: 2022-12-02

Period of Record Monthly Statistics for EAWB-01
Depth to water, feet below land surface
Most recent depth to water in EAWB-01: 23.6 feet on 2022-11-28

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	22.88	22.77	22.57	22.46	21.95	21.92	21.91	13
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	24.11	23.27	22.18	21.80	21.73	14
Dec	23.34	23.32	23.23	22.62	22.02	21.76	21.70	13

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

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)
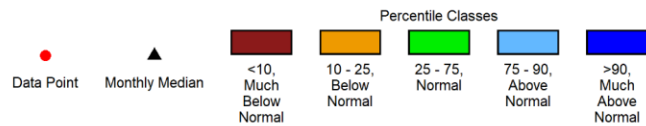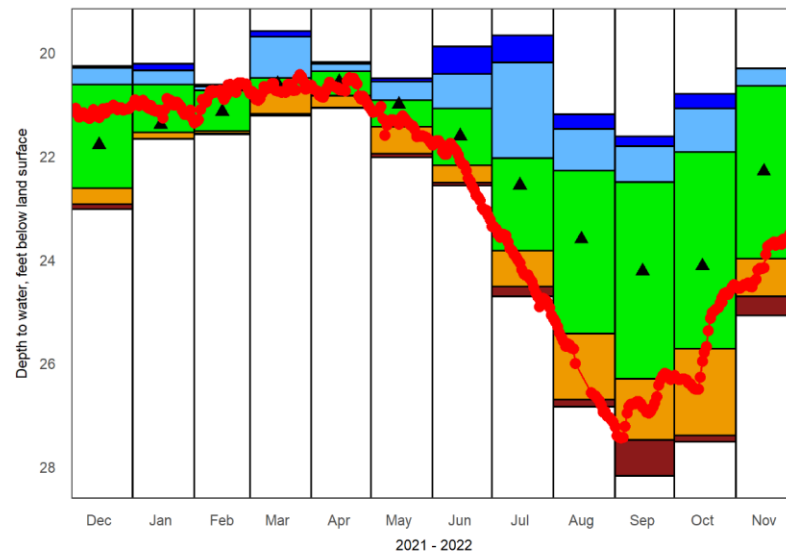
Years

Plot created: 2022-12-02

EAWB-02: East Kingston, NH Bedrock Well, Shallow Couplet Member
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for EAWB-02
Depth to water, feet below land surface
Most recent depth to water in EAWB-02: 23.5 feet on 2022-11-28

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	21.67	21.66	21.54	21.39	20.62	20.34	20.22	13
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	24.71	23.98	22.29	20.64	20.31	20.30	13
Dec	23.02	22.93	22.62	21.78	20.62	20.29	20.26	13

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) by USGS

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: 2022-12-02

HTW-05: Hooksett, NH Bedrock Well

Annual Hydrograph with Historical Median and Percentile Classes

Period of Record Monthly Statistics for HTW-05
Depth to water, feet below land surface
Most recent depth to water in HTW-05: 49.37 feet on 2022-11-28

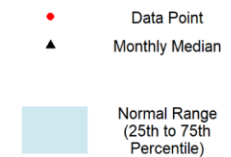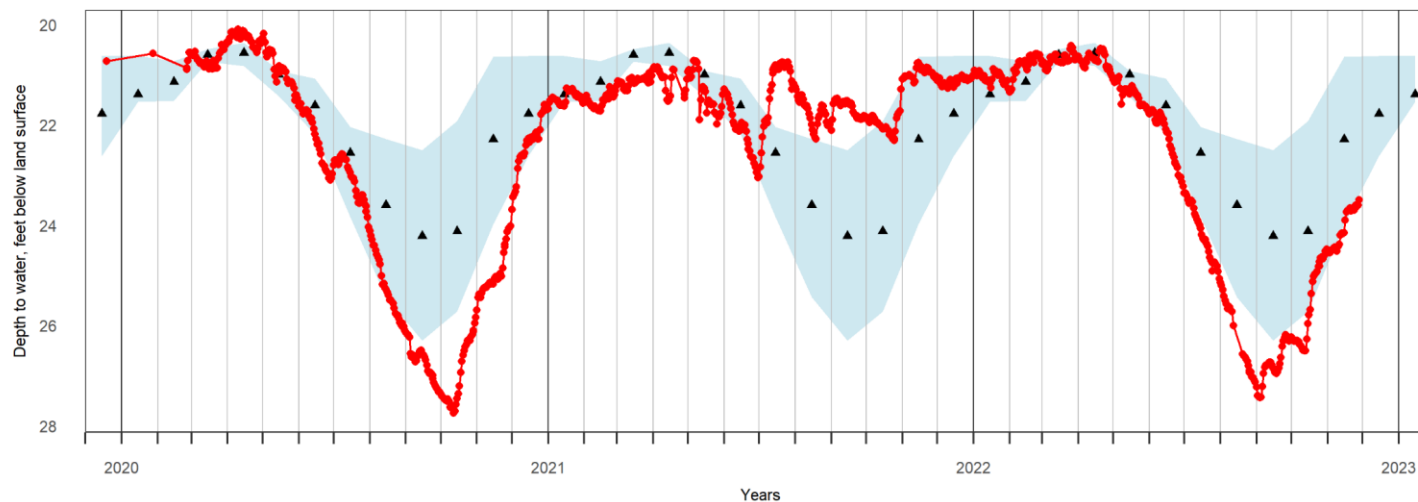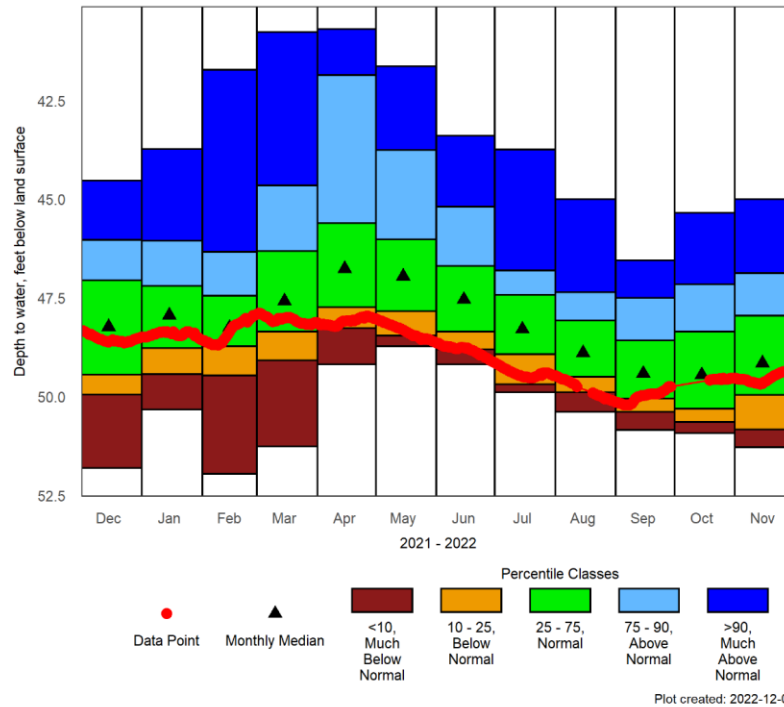| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	50.33	49.43	48.77	47.94	47.20	46.05	43.73	54
Feb	51.96	49.46	48.72	48.25	47.45	46.34	41.72	53
Mar	51.26	49.08	48.36	47.58	46.31	44.65	40.77	57
Apr	49.18	48.26	47.74	46.76	45.61	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	49.95	49.44	48.23	47.05	46.03	44.53	57

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified
version of the Hydrologic AnalySis Package (HASP) by USGS

Plot created: 2022-12-02

HTW-05: Hooksett, NH Bedrock Well

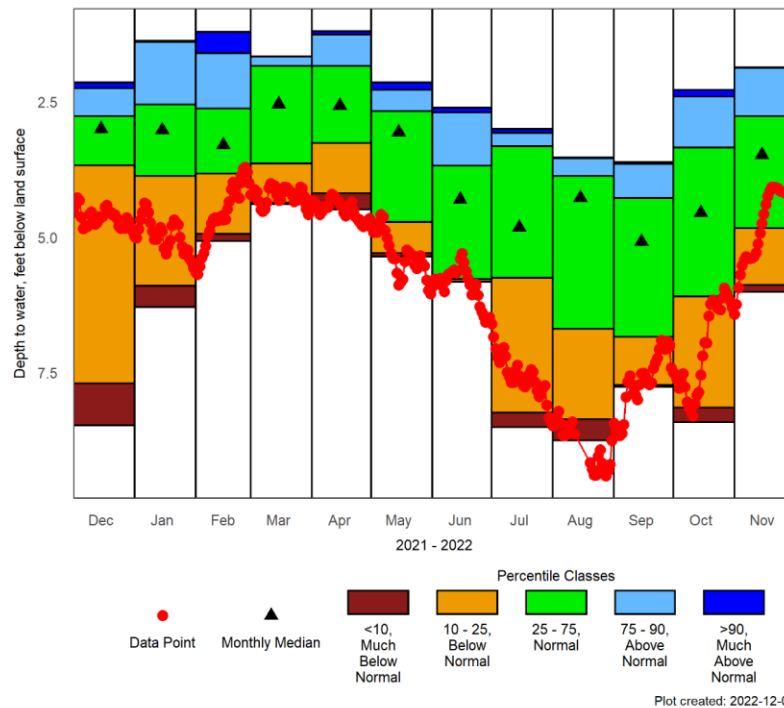Groundwater Levels and Statistics for Past 3 Years

Plot created: 2022-12-02

NWWB-01: Northwood, NH Bedrock Well
Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

Percentile Classes

Data Point | Monthly Median

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for NWWB-01
Depth to water, feet below land surface
Most recent depth to water in NWWB-01: 4.13 feet on 2022-11-28

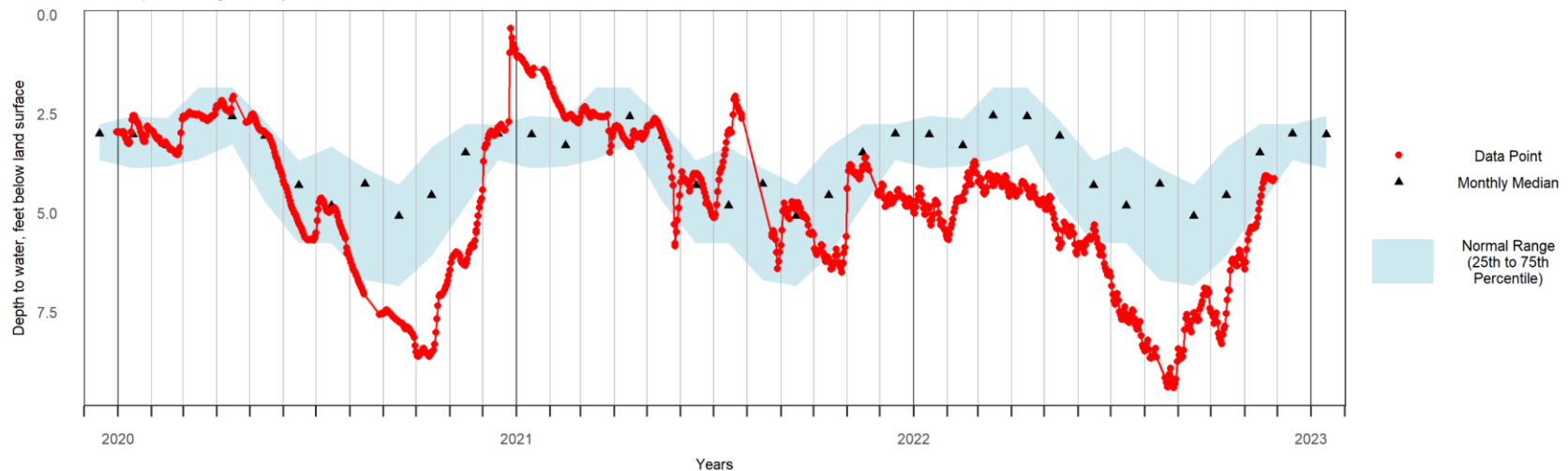| Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	6.29	5.90	3.87	3.02	2.55	1.40	1.37	12
Feb	5.07	4.94	3.83	3.30	2.62	1.60	1.21	12
Mar	4.39	4.36	3.64	2.54	1.84	1.67	1.66	11
Apr	4.49	4.19	3.26	2.57	1.84	1.26	1.19	12
May	5.36	5.29	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	4.83	3.48	2.76	1.87	1.86	11
Dec	8.47	7.70	3.67	3.00	2.76	2.25	2.14	11

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

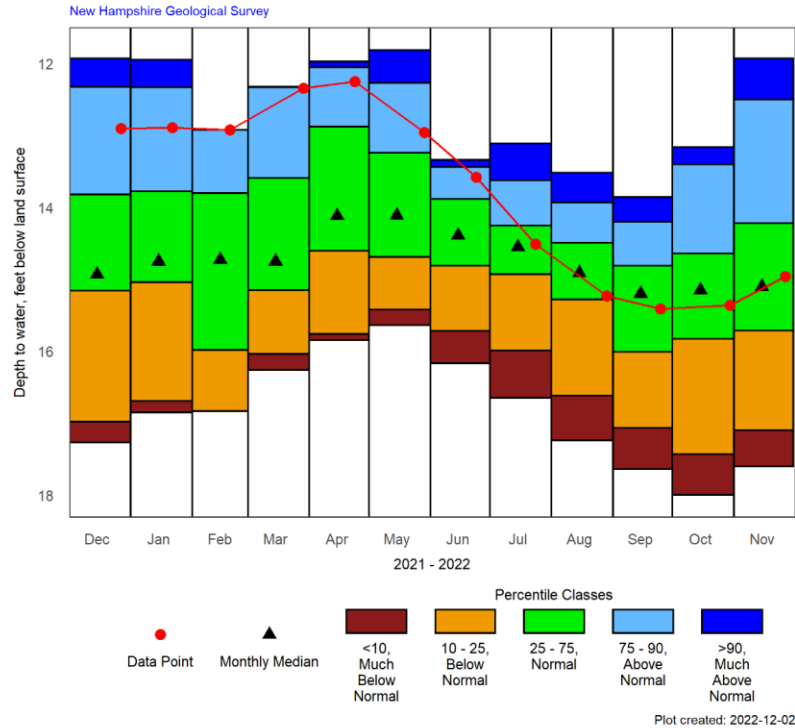## NWWB-01: Northwood, NH Bedrock Well
Groundwater Levels and Statistics for Past 3 Years

New Hampshire Geological Survey

Data Point

Monthly Median

Normal Range (25th to 75th Percentile)

Plot created: 2022-12-02

RGWB-01: Rindge, NH Bedrock Well, Deep Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

2021 - 2022

Percentile Classes

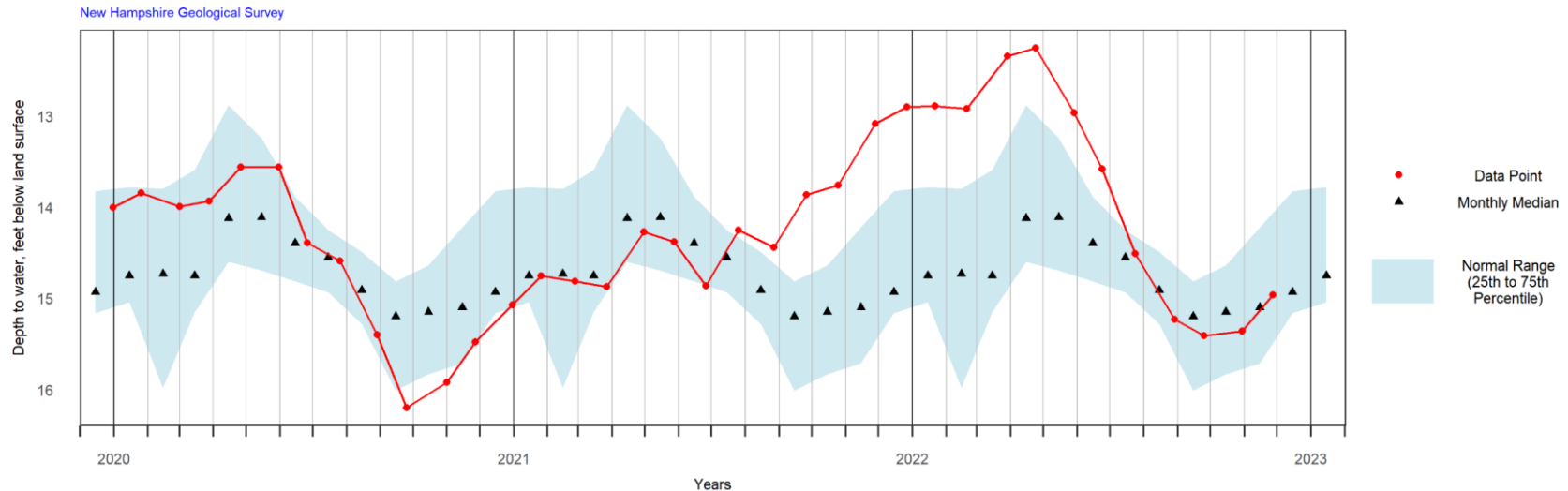|		
● Data Point	▲ Monthly Median	▮ <10, Much Below Normal ▮ 10 - 25, Below Normal ▮ 25 - 75, Normal ▮ 75 - 90, Above Normal ▮ >90, Much Above Normal

Plot created: 2022-12-02

Period of Record Monthly Statistics for RGWB-01
Depth to water, feet below land surface
Most recent depth to water in RGWB-01: 14.96 feet on 2022-11-27

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	16.85	16.69	15.04	14.75	13.78	12.33	11.95	13
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	16.98	15.16	14.93	13.82	12.32	11.93	13

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

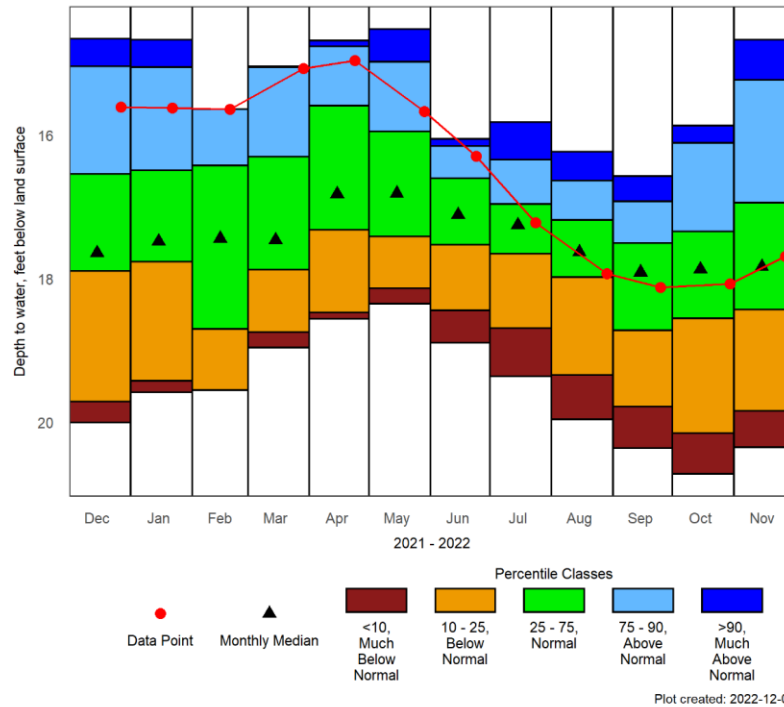# RGWB-01: Rindge, NH Bedrock Well, Deep Couplet Member

Groundwater Levels and Statistics for Past 3 Years

Years

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

Plot created: 2022-12-02

RGWB-02: Rindge, NH Bedrock Well, Shallow Couplet Member

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

75 - 90, Above Normal | >90, Much Above Normal

Plot created: 2022-12-02

Period of Record Monthly Statistics for RGWB-02
Depth to water, feet below land surface
Most recent depth to water in RGWB-02: 17.69 feet on 2022-11-27
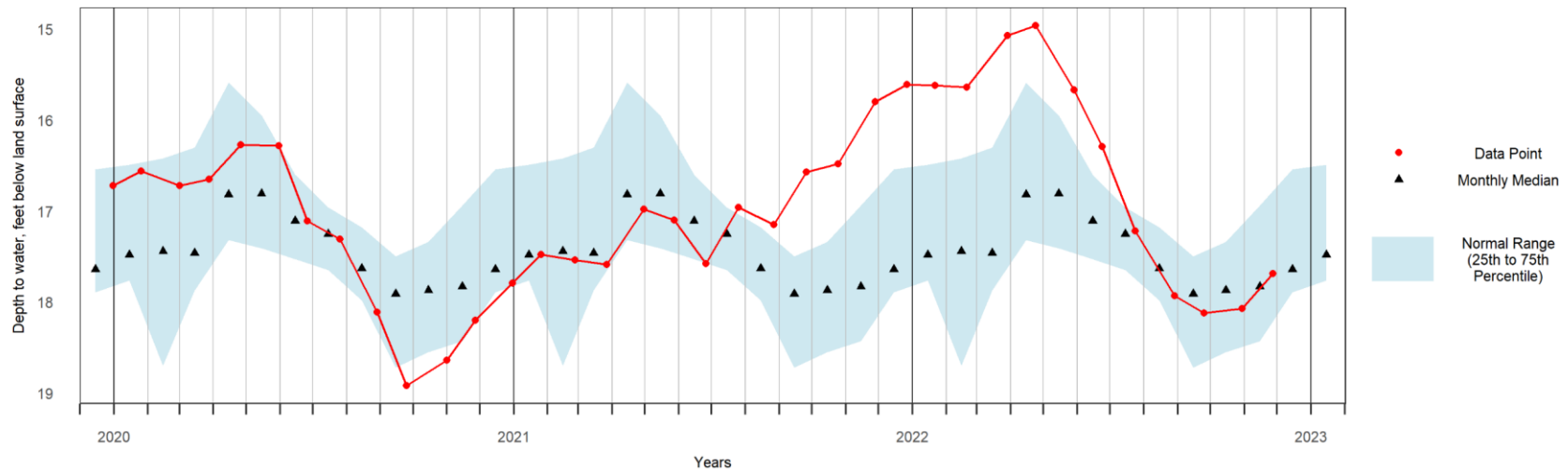
Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	19.58	19.42	17.76	17.48	16.49	15.05	14.67	13
Feb	19.55	19.55	18.70	17.44	16.42	15.64	15.64	8
Mar	18.96	18.74	17.87	17.46	16.30	15.05	15.04	13
Apr	18.56	18.47	17.32	16.82	15.59	14.76	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	19.71	17.89	17.64	16.54	15.04	14.66	13

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

RGWB-02: Rindge, 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)
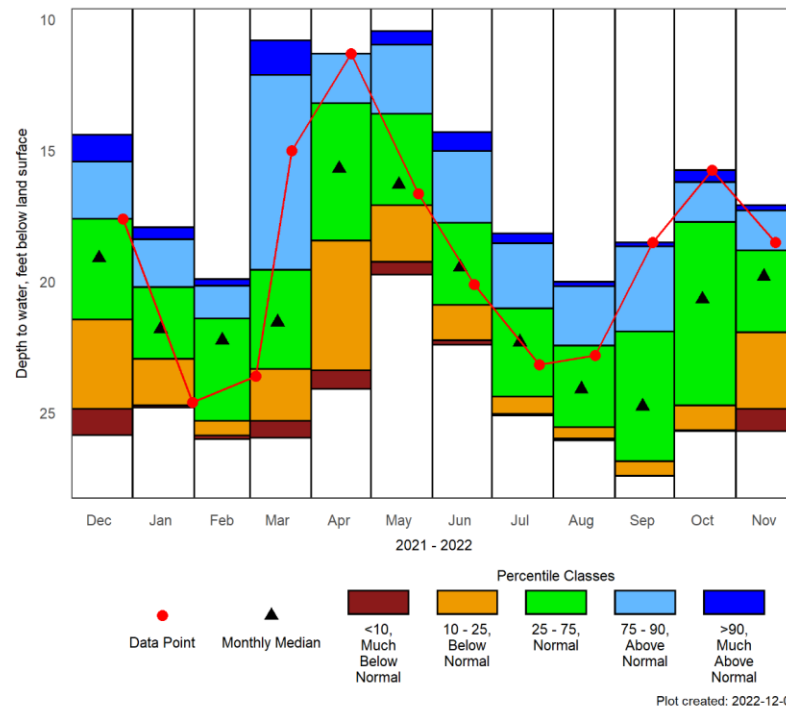
Plot created: 2022-12-02

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

Annual Hydrograph with Historical Median and Percentile Classes

New Hampshire Geological Survey

2021 - 2022

Percentile Classes

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

Plot created: 2022-12-02

Period of Record Monthly Statistics for SOWB-02
Depth to water, feet below land surface
Most recent depth to water in SOWB-02: 18.5 feet on 2022-11-21

Month	Lowest Median	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	Highest Median	POR
Jan	24.80	24.72	22.95	21.80	20.20	18.39	17.92	13
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	13
Nov	25.70	24.86	21.93	19.80	18.80	17.29	17.08	13
Dec	25.85	24.86	21.44	19.10	17.60	15.43	14.40	13

Table created: 2022-12-02

Figures and table created with R version 4.1.3 using a heavily modified version of the Hydrologic AnalySis Package (HASP) by USGS

SOWB-02: Stewartstown, 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: 2022-12-02