Arsenic data

2024-06-13

# Predictor variable descriptions

NameDescription <- data.frame(data$Predictor\_name, data$Description)  
kable(NameDescription)

| data.Predictor\_name | data.Description |
| --- | --- |
| rt\_clast\_u | Generalized lithology classified as CLAST\_U: sediments and sedimentary rocks. Clastic sediments/rocks of unknown or highly variable clast sizes. |
| rt\_meta | Generalized lithology classified as META: Metamorphic rocks. |
| rt\_plut\_qtz | Generalized lithology classified as PLUT\_QTZ: Igneous, generally felsic, quartz-rich plutonic rocks such as granitoids, granite, granodacite. Lithology of plutonics and volcanics are split out based on quartz content using the IUGS classification presented in Hyndman’s ‘Petrology of Igneous and Metamorphic Rocks’ second edition, 1985, page 33, fields 1-5. |
| PRMS8110Re | average annual recharge to groundwater |
| LP2 | Lateral position for fourth order streams |

kable(data)

|  | Predictor\_name | Description | Category\_levels | Categorical.observation.amounts | Data\_type | Units | Missing\_values | Time\_period | Source | Mean | X25..Quartile | X75..Quartile | Standard.Deviation | Max | Min |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | rt\_clast\_u | Generalized lithology classified as CLAST\_U: sediments and sedimentary rocks. Clastic sediments/rocks of unknown or highly variable clast sizes. | 1 (present) ; 0 (absent) | 0 = 16287 1 = 4163 | binary | NA | “NA” | NA | Anning and Ator (2017) | 0.2036 | 0.00000 | 0.0000 | 0.4026624 | 1 | 0 |
| 5 | rt\_meta | Generalized lithology classified as META: Metamorphic rocks. | 1 (present) ; 0 (absent) | 0 = 18520 1 = 1930 | binary | NA | “NA” | NA | Anning and Ator (2017) | 0.09438 | 0.00000 | 0.0000 | 0.2923590 | 1 | 0 |
| 6 | rt\_plut\_qtz | Generalized lithology classified as PLUT\_QTZ: Igneous, generally felsic, quartz-rich plutonic rocks such as granitoids, granite, granodacite. Lithology of plutonics and volcanics are split out based on quartz content using the IUGS classification presented in Hyndman’s ‘Petrology of Igneous and Metamorphic Rocks’ second edition, 1985, page 33, fields 1-5. | 1 (present) ; 0 (absent) | 0 = 19475 1 = 975 | binary | NA | “NA” | NA | Anning and Ator (2017) | 0.04768 | 0.00000 | 0.0000 | 0.2130877 | 1 | 0 |
| 7 | PRMS8110Re | average annual recharge to groundwater | NA | NA | numeric | millimeters per year | “NA” | 1981-2010 | Hay (2019) | 164.37 | 19.26016 | 254.1999 | 175.8661000 | 9.994490E+00 | 0.000000E+00 |
| 8 | LP2 | Lateral position for fourth order streams | NA | NA | numeric | percent times 100 |  | NA | Moore and others (2019) | 5266 | 2616.25000 | 7944.0000 | 3005.1600000 | 10000 | 0 |

# Predictor variable descriptions2

**rt\_clast\_u**: Generalized lithology classified as CLAST\_U: sediments and sedimentary rocks. Clastic sediments/rocks of unknown or highly variable clast sizes.

**rt\_meta**:Generalized lithology classified as META: Metamorphic rocks.

**rt\_plut\_qtz**: Generalized lithology classified as PLUT\_QTZ: Igneous, generally felsic, quartz-rich plutonic rocks such as granitoids, granite, granodacite. Lithology of plutonics and volcanics are split out based on quartz content using the IUGS classification presented in Hyndman’s ‘Petrology of Igneous and Metamorphic Rocks’ second edition, 1985, page 33, fields 1-5.

**PRMS8110Re**: average annual recharge to groundwater.

**LP2**: Lateral position for fourth order streams

NameMax <- data.frame(data$Predictor\_name, data$Max)  
kable(NameMax)

| data.Predictor\_name | data.Max |
| --- | --- |
| rt\_clast\_u | 1 |
| rt\_meta | 1 |
| rt\_plut\_qtz | 1 |
| PRMS8110Re | 9.994490E+00 |
| LP2 | 10000 |

NameMin <- data.frame(data$Predictor\_name, data$Min)  
kable(NameMin)

| data.Predictor\_name | data.Min |
| --- | --- |
| rt\_clast\_u | 0 |
| rt\_meta | 0 |
| rt\_plut\_qtz | 0 |
| PRMS8110Re | 0.000000E+00 |
| LP2 | 0 |