

National Ground-Water Monitoring Network

Tip Sheet on creating shapefiles of Network Sites and Recent WL

Introduction

GIS layers in multiple formats of sites and the most-recent water level percentiles can be found on the [Geoserver](#) page.

Download shapefile of NGWMN Sites

Go to URL at:

https://cida.usgs.gov/ngwmn-geoserver/ngwmn/ows?service=WFS&version=1.0.0&request=GetFeature&typeName=ngwmn%3AVW_GWDP_GEOSERVER&outputFormat=SHAPE-ZIP

Save in Downloads folder as 'NGWMN_Shapefile.zip'.

Navigate to Downloads folder and right-click on 'NGWMN_Shapefile.zip'. Select 'Extract All'. Use default folder name. Shapefile will be in new folder with the name 'VW_GWDP_GEOSERVER'.

Use ArcCatalog to rename shapefile 'VW_GWDP_GEOSERVER' to 'NGWMN_Network'.

Download shapefile with the Latest Water-Level Percentile

Go to URL at:

https://cida.usgs.gov/ngwmn-geoserver/ngwmn/ows?service=WFS&version=1.0.0&request=GetFeature&typeName=ngwmn%3ALatest_WL_Percentile&outputFormat=SHAPE-ZIP

Save in Downloads folder as 'Latest_WL_Percentile.zip'.

Navigate to Downloads folder and right-click on 'Latest_WL_Percentile.zip'. Select 'Extract All'. Use default folder name. Shapefile will be in new folder with the name 'Latest_WL_Percentile'. Use ArcCatalog to rename shapefile, if desired.

In order to categorize by Percentile, you need to add a new field to the shapefile using ArcCatalog that is type 'Double'. Open the table in ArcMap and calculate the new field to be = CDBL([LATEST_PCT])

Download shapefile of Principal aquifers

Go to URL at:

<https://cida.usgs.gov/ngwmn-geoserver/ngwmn/ows?service=WFS&version=1.0.0&request=GetFeature&typeName=ngwmn%3Aaquifrp025&outputFormat=SHAPE-ZIP>

Save in Downloads folder as 'aquifrp025.zip'.

Navigate to Downloads folder and right-click on 'aquifrp025.zip'. Select 'Extract All'. Use default folder name. Shapefile will be in new folder with the name 'aquifrp025'. Use ArcCatalog to rename shapefile, if desired.

Download shapefile of Alluvial and Glacial aquifers

Go to URL at:

https://cida.usgs.gov/ngwmn-geoserver/ngwmn/ows?service=WFS&version=1.0.0&request=GetFeature&typeName=ngwmn%3AALLUVIAL_AND_GLACIAL&outputFormat=SHAPE-ZIP

Save in Downloads folder as 'ALLUVIAL_AND_GLACIAL.zip'.

Navigate to Downloads folder and right-click on 'ALLUVIAL_AND_GLACIAL.zip'. Select 'Extract All'. Use default folder name. Shapefile will be in new folder with the name 'ALLUVIAL_AND_GLACIAL'. Use ArcCatalog to rename shapefile, if desired.

URL's to get all sites in Shapefiles

[Shapefile of Sites](#)

[Latest Water-Level Percentile](#)

[Principal Aquifers](#)

[Alluvial and Glacial Aquifers](#)

Reference

Other spatial data in a variety of formats is available at:

<https://cida.usgs.gov/ngwmn-geoserver/web/wicket/bookmarkable/org.geoserver.web.demo.MapPreviewPage?4&filter=false>

Note that this page allows you to download a preview of the sites (only the first 50). To get all sites you will have to alter the URL you select and remove '&maxFeatures=50' from the URL.