

DETERMINING THE HYDRIC CLASS OF MAP UNITS

We have received numerous requests for data indicating what percent of map units are hydric. To meet this need we have developed a data set that would be used in determining the percent of a soil map unit that is hydric. This data can be used in a GIS program to create spatial maps of hydric percent.

The data I used was pulled from the MUGGATT table found in the Access databases available from Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov/app/>). You will have to download these databases, and then import the tabular data into the Access Import box to build the database. In Access, build a query that pulls the data that you want to include such as MUSYM and component or any other data you are interested in.

Two data elements that need to be included in your query are:

1. The column called “mukey” from either the mapunit or component tables. This is what you will use to link the hydric data to your map units in your GIS system.
2. The column in the MUGGATT table called “hydclprs”. That is the data you are looking for.

Once the query is run, you can copy the data to Excel and then link the data to the spatial data in GIS.

Or if you are not comfortable with writing queries in Access, you can try this:

Go to the Soil Data Access site at <http://sdmdataaccess.nrcs.usda.gov/>. In the query box, copy and paste the following query:

```
SELECT mapunit.mukey, legend.areasymbol, mapunit.musym, mapunit.muname, mapunit.mukind,  
component.compname, component.majcompflag, component.comppct_r, component.hydricrating,  
muaggatt.hydclprs  
FROM ((legend INNER JOIN mapunit ON legend.lkey = mapunit.lkey) INNER JOIN component ON  
mapunit.mukey = component.mukey) INNER JOIN muaggatt ON (component.mukey = muaggatt.mukey)  
AND (mapunit.mukey = muaggatt.mukey)  
WHERE (((legend.areasymbol) Like 'in%') AND ((component.majcompflag)='Yes'));
```

The text in red above needs to be edited to say “INXXX” where XXX is the FIPS code for the county you are looking for. A copy of the FIPS code list is posted on eFOTG. You will have to run the report for each county that you are interested in. Make sure the “Immediate/HTML” radio button is checked and click “Submit Query” at the bottom. The output can be copied and pasted into Excel.

If you have issues with either process, contact:

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