

Adding Additional Shapefiles to the NWDSN Mapservice



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1 CREATING A SHAPEFILE LAYER:

1.1 Data

- To organize the shape files, all shapefile data is located in `/home/www/data/`
- You can create subdirectories if you wish for further organization. As an example we will use `/home/www/data/tweta/tweta.shp`
- Make the data accessible to the mapservice. Do this by running the command:
`chown -R apache /home/www/data/`
- open up `/home/www/htdocs/viewer/nwdsn.map` in an editor

1.2 Modifying the Mapfile

- Add a new layer object into the mapfile using the basic mapfile layout as documented here: <http://mapserver.gis.umn.edu/doc40/mapfile-reference.html>
- The order of layers is reversed so that when displayed the layers at the top of the map file will be 'underneath' the rest of the layers in the image returned from the mapservice.

Here is an example layer definition:

```
LAYER
  NAME "TRIM Wetlands"
  GROUP "Water Features"
  TYPE POLYGON
  STATUS ON
  DATA "tweta/tweta"
  MAXSCALE 1200000
  CLASS
    NAME 'TRIM Wetlands'
    COLOR 19 39 227
    OUTLINECOLOR 0 0 0
    TEMPLATE "ttt_query.html"
  END
  METADATA
    wms_group_title "Water Features"
    wms_title "TRIM Wetlands"
  END
END
```

Additional features available through the Mapfile configuration:

- You can make a new group, just enter it into the group field. Make sure you add the wms_group_title field to METADATA as well. This field only needs to be in one layer for each group.
- The Color values defined in the 'Class' objects are Red-Green-Blue, ranging from 0 to 255 (0 is darkest, 255 is brightest), so it is possible to modify layer colours very easily.
- You can use the MAXSCALE and MINSSCALE features to only show the layers at specified zoom levels.
- Simply remove the TEMPLATE line if you do not wish to have queries performed on this layer.