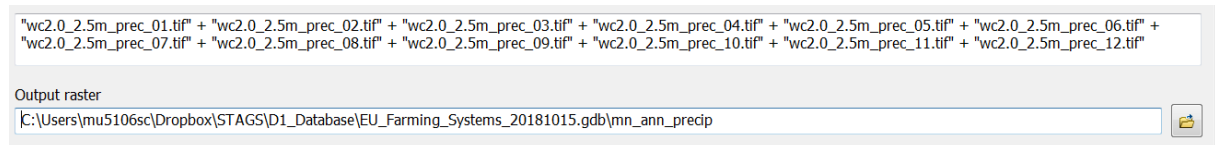


Date: 2018/12/20

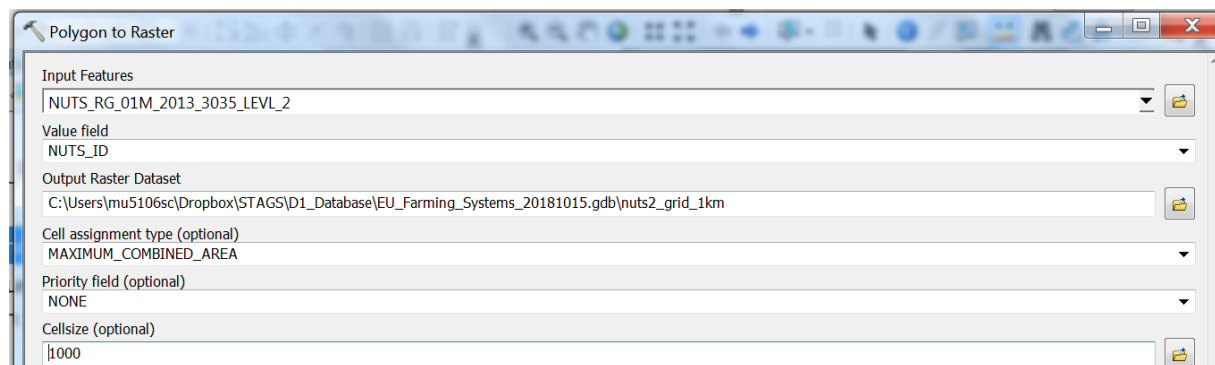
Author: Murray Scown

Purpose: Document processing of climate and topographic data

1. Downloaded growing degree day grid from <https://nelson.wisc.edu/sage/data-and-models/atlas/maps.php?datasetid=31&includerelatedlinks=1&dataset=31>
2. Downloaded precipitation data from <http://worldclim.org/version2>
  - a. Averaged monthly precipitation for 1970-2000 at 2.5 minute resolution
  - b. Summed all grids to get annual precipitation



3. Created a 1km x 1km grid of NUTS2 IDs



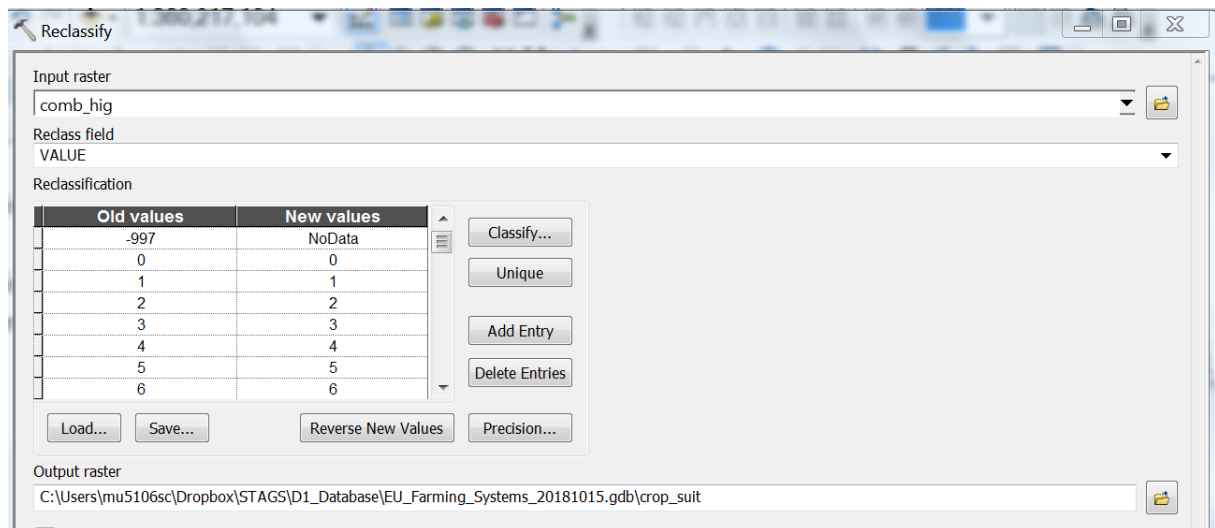
4. Projected growing degree days and precipitation rasters to same extent and resolution as nuts2\_grid\_1km

	Input Raster	Output Raster Dataset	Output Coordinate System	Resampling	Output Cell Siz	Geographic Transformation
1	mn_ann_precip	C:\Users\mu5106sc\Dropbox\STAGS\ID1_Database\EU_Farming_Systems_20181015.gdb\mn_ann_precip_1km	PROJCS[ETRS89_LAEA_Europ	NEAREST	nuts2_grid_1km	ETRS_1989_To_WGS_1984
2	gdd	C:\Users\mu5106sc\Dropbox\STAGS\ID1_Database\EU_Farming_Systems_20181015.gdb\gdd_1km	PROJCS[ETRS89_LAEA_Europ	NEAREST	nuts2_grid_1km	ETRS_1989_To_WGS_1984

5. Calculated mean annual precipitation and gdd within each NUTS2 region as table

	Input raster or feat	Zone field	Input value raster	Output table	Ignore NoD	Statistics t
1	nuts2_grid_1km	NUTS_ID	mn_ann_precip_1km	C:\Users\mu5106sc\Dropbox\STAGS\ID1_Database\EU_Farming_Systems_20181015.gdb\nuts2_mean_ann_precip	true	MEAN
2	nuts2_grid_1km	NUTS_ID	gdd_1km	C:\Users\mu5106sc\Dropbox\STAGS\ID1_Database\EU_Farming_Systems_20181015.gdb\nuts2_mean_gdd	true	MEAN

6. Downloaded COMBINED SUITABILITY OF CURRENTLY AVAILABLE LAND FOR PASTURE AND RAINFED CROPS (HIGH INPUT LEVEL) (FGGD) from <http://www.fao.org/geonetwork/srv/en/main.home>
7. Reclasses raster to numeric and remove water bodies (class -997)



8. Calculated mean of this suitability index for each NUTS2 region using 1km NUTS2 grid

