# arcpy codes for generating per water polygon extractions in separate csv # files, inlayer and directories to be added

import arcpy

import numpy

import csv

from arcpy import env

from arcpy.sa import \*

arcpy.env.cellSize = 2.5

arcpy.env.overwriteOutput = True

arcpy.env.parallelProcessingFactor = "200%"

env.workspace = "\*\*\*\*"

# change inlayer

#inlayer = " tobeadded"

#change tables and outputs

tables\_Wales = ["list of Welch watershed polygons"]

outs\_Wales = ["list of Welch output csv files"]

tables\_UK\_1 = ["list of UK watershed polygons"]

outs\_UK\_1 = ["list 1 of UK output csv files"]

outs\_UK\_2 = ["list 2 of UK output csv files"]

#1

# watch the intents so loops can be nested

for x in range(0,41):

outZSaT = ZonalStatisticsAsTable(tables\_Wales[x], "ID\_STRING",inlayer,"zonalstattblout", "DATA", "ALL")

# export to file

table =r' zonalstattblout'

outfile = outs\_Wales[x]

#--first lets make a list of all of the fields in the table

fields = arcpy.ListFields(table)

field\_names = [field.name for field in fields]

with open(outfile,'wb') as f:

w = csv.writer(f)

#--write all field names to the output file

w.writerow(field\_names)

#--now we make the search cursor that will iterate through the rows of the table

for row in arcpy.SearchCursor(table):

field\_vals = [row.getValue(field.name) for field in fields]

w.writerow(field\_vals)

#del row

#2

# watch the intents so loops can be nested

for x in range(0,235):

outZSaT = ZonalStatisticsAsTable(tables\_UK\_1[x], "ID\_STRING",inlayer,"zonalstattblout", "DATA", "ALL")

# export to file

table =r' zonalstattblout'

outfile = outs\_UK\_1[x]

#--first lets make a list of all of the fields in the table

fields = arcpy.ListFields(table)

field\_names = [field.name for field in fields]

with open(outfile,'wb') as f:

w = csv.writer(f)

#--write all field names to the output file

w.writerow(field\_names)

#--now we make the search cursor that will iterate through the rows of the table

for row in arcpy.SearchCursor(table):

field\_vals = [row.getValue(field.name) for field in fields]

w.writerow(field\_vals)

#del row

#3

# watch the intents so loops can be nested

for x in range(0,243):

outZSaT = ZonalStatisticsAsTable(tables\_UK\_2[x], "ID\_STRING",inlayer,"zonalstattblout", "DATA", "ALL")

# export to file

table =r' zonalstattblout'

outfile = outs\_UK\_2[x]

#--first lets make a list of all of the fields in the table

fields = arcpy.ListFields(table)

field\_names = [field.name for field in fields]

with open(outfile,'wb') as f:

w = csv.writer(f)

#--write all field names to the output file

w.writerow(field\_names)

#--now we make the search cursor that will iterate through the rows of the table

for row in arcpy.SearchCursor(table):

field\_vals = [row.getValue(field.name) for field in fields]

w.writerow(field\_vals)

#del row