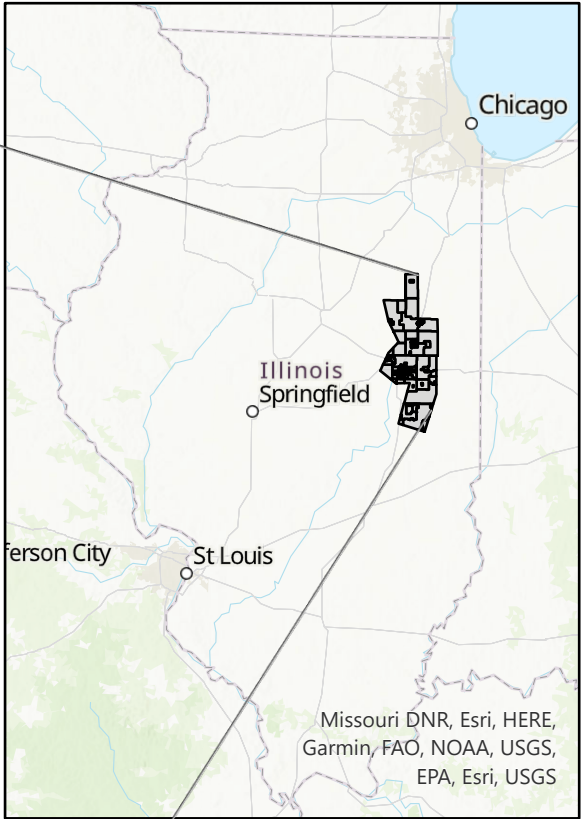
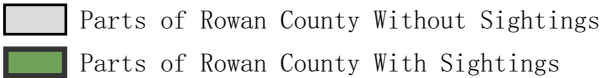
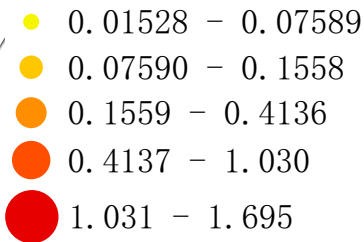


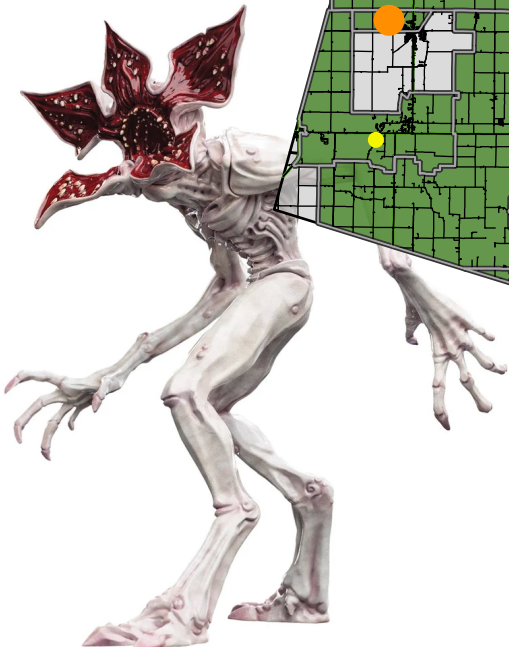
Demogorgon Sightings Within Rowan County



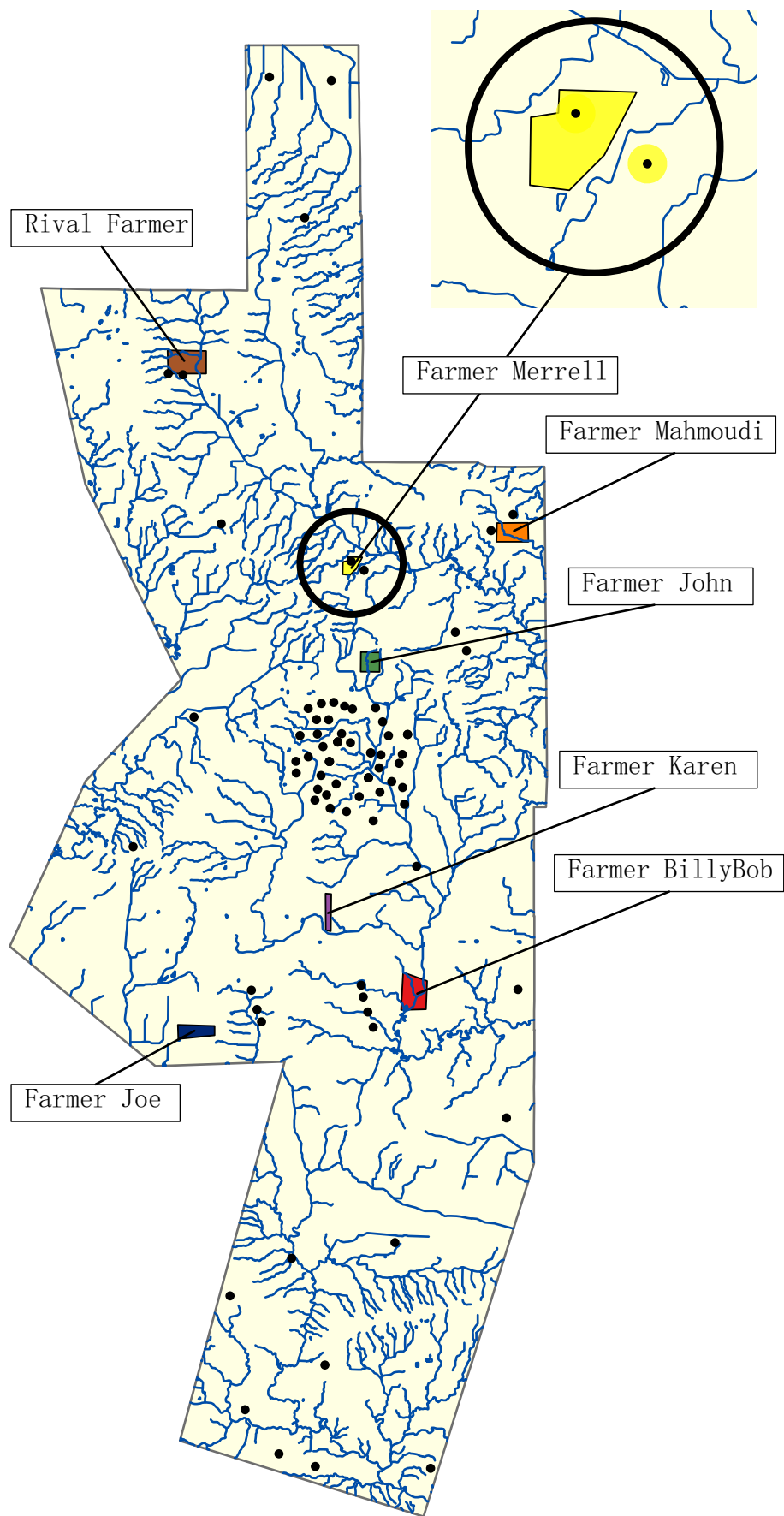
Demogorgon Sightings
per sq. mi.



Chief Hopper,
My initial findings are quite evident by the red and orange points shown in the middle of the map, there is a high concentration of demogorgon sightings in this area. I provided a picture for reference and made sure to give you the sightings per square mile, explaining why some points are larger than others. The green areas on the map were highlighted so you can see where the sightings have taken place in Rowan County. Thank you for allowing me to use your data on the county, the roads, and the sightings! It has proven quite useful!



Potential Pumpkin Farms In Danger of Demogorgon Attack



Chief Hopper,

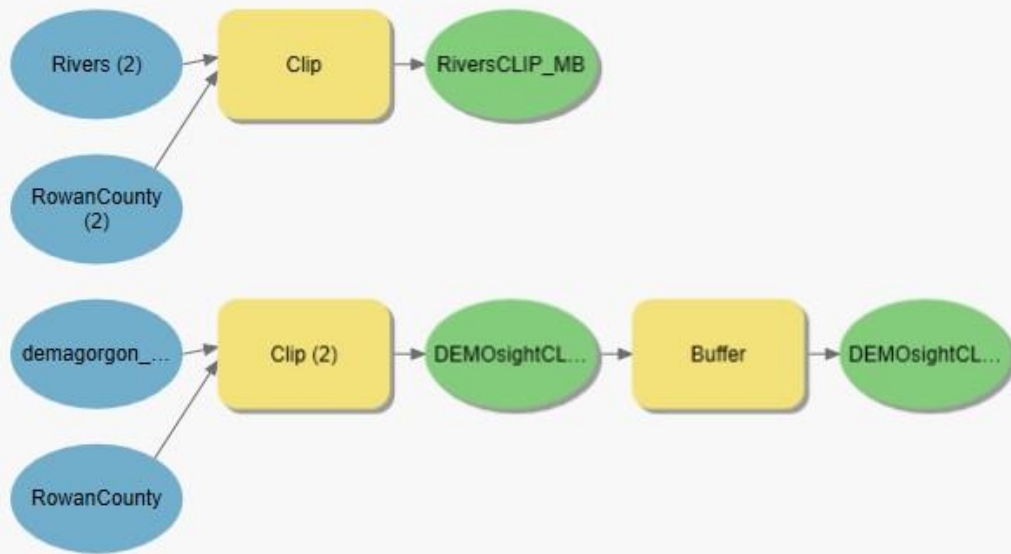
After doing further analysis using your data on rivers, demogorgon sightings, and pumpkin farmers, I have found that at the moment it seems as though Farmer Merrell may have the only Pumpkin Farm in danger. The other farms either have a river running through them (which demogorgons DO NOT like) or they are too far away from where the initial sightings were. At first Farmer Mahmoudi's farm seemed at risk, but after further analysis I found that a river runs straight through his property. If there are any exit tunnels near Farmer Joe or Farmer Karen, they may be the most at risk, but seem safe for now. If I receive anymore pictures of demogorgons, I'll pass them along to you.

Stay safe.

Pumpkin Farm Owners

- Farmer BillyBob
- Farmer Joe
- Farmer John
- Farmer Karen
- Farmer Mahmoudi
- Farmer Merrell
- Rival Farmer





```

Model - Notepad
File Edit Format View Help
# -*- coding: utf-8 -*-
"""
Generated by ArcGIS ModelBuilder on : 2021-12-15 22:53:52
"""
import arcpy

def Model(): # Model

    # To allow overwriting outputs change overwriteOutput option to True.
    arcpy.env.overwriteOutput = True

    Rivers_2 = "Rivers"
    RowanCounty_2 = "RowanCounty"
    demagorgon_sightings = "demagorgon_sightings"
    RowanCounty = "RowanCounty"

    # Process: Clip (Clip) (analysis)
    RiversCLIP_MB = "C:\\Users\\Emilie\\Documents\\ArcGIS\\Projects\\FINAL BOSS\\FINAL BOSS.gdb\\RiversCLIP_MB"
    arcpy.analysis.Clip(in_features=Rivers_2, clip_features=RowanCounty_2, out_feature_class=RiversCLIP_MB, cluster_tolerance="")

    # Process: Clip (2) (Clip) (analysis)
    DEMOsightCLIP_MB = "C:\\Users\\Emilie\\Documents\\ArcGIS\\Projects\\FINAL BOSS\\FINAL BOSS.gdb\\DEMOsightCLIP_MB"
    arcpy.analysis.Clip(in_features=demagorgon_sightings, clip_features=RowanCounty, out_feature_class=DEMOsightCLIP_MB, cluster_tolerance="")

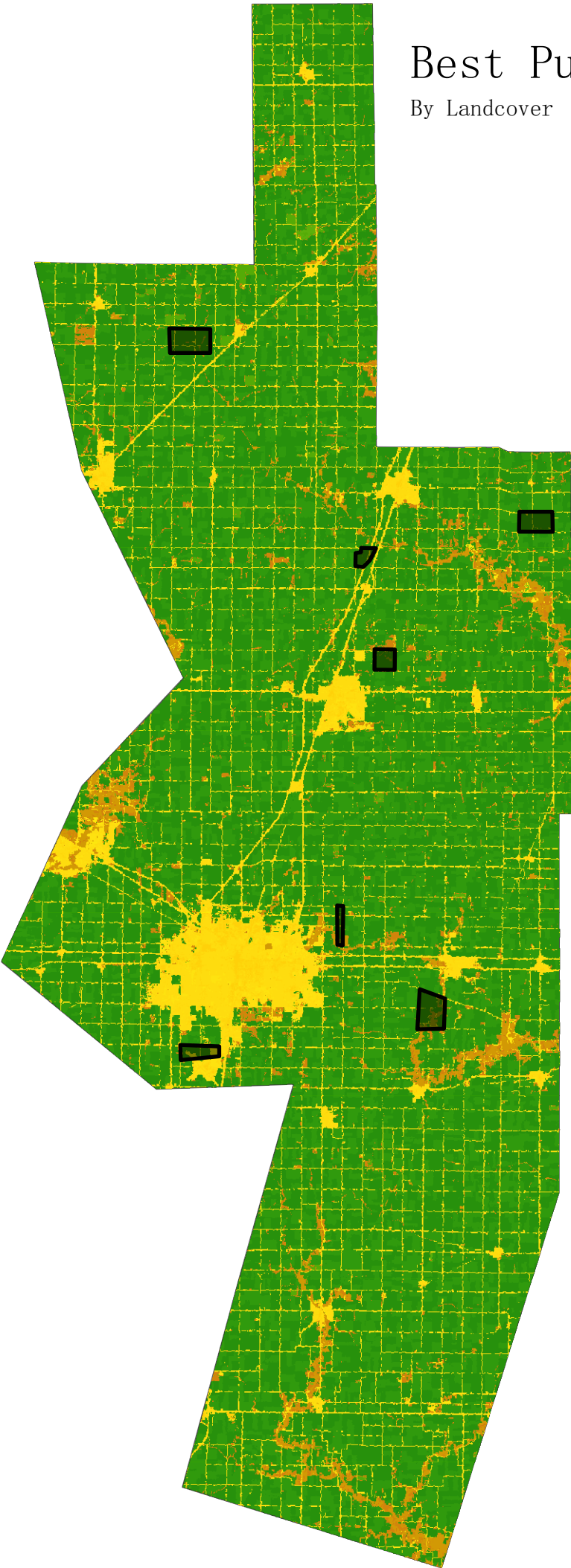
    # Process: Buffer (Buffer) (analysis)
    DEMOsightCLIP_MB_Buffer = "C:\\Users\\Emilie\\Documents\\ArcGIS\\Projects\\FINAL BOSS\\FINAL BOSS.gdb\\DEMOsightCLIP_MB_Buffer"
    arcpy.analysis.Buffer(in_features=DEMOsightCLIP_MB, out_feature_class=DEMOsightCLIP_MB_Buffer, buffer_distance_or_field="1000 Feet", line_side="FULL", line_end_type="ROUND", dissolve_option="NONE", dissolve_field=[], method="PLANAR")

if __name__ == '__main__':
    # Global Environment settings
    with arcpy.EnvManager(scratchWorkspace="C:\\Users\\Emilie\\Documents\\ArcGIS\\Projects\\FINAL BOSS\\FINAL BOSS.gdb", workspace="C:\\Users\\Emilie\\Documents\\ArcGIS\\Projects\\FINAL BOSS\\FINAL BOSS.gdb"):
        Model()
    with arcpy.EnvManager(scratchWorkspace="C:\\Users\\Emilie\\Documents\\ArcGIS\\Projects\\FINAL BOSS\\FINAL BOSS.gdb", workspace="C:\\Users\\Emilie\\Documents\\ArcGIS\\Projects\\FINAL BOSS\\FINAL BOSS.gdb"):
        Model()
  
```

Ln 35, Col 1 100% Windows (CRLF) UTF-8

Best Pumpkin Growing Locations

By Landcover



Pumpkin Growing Determination

Good For Growing Pumpkins

Pumpkins Might Grow

Pumpkins Unlikely To Grow

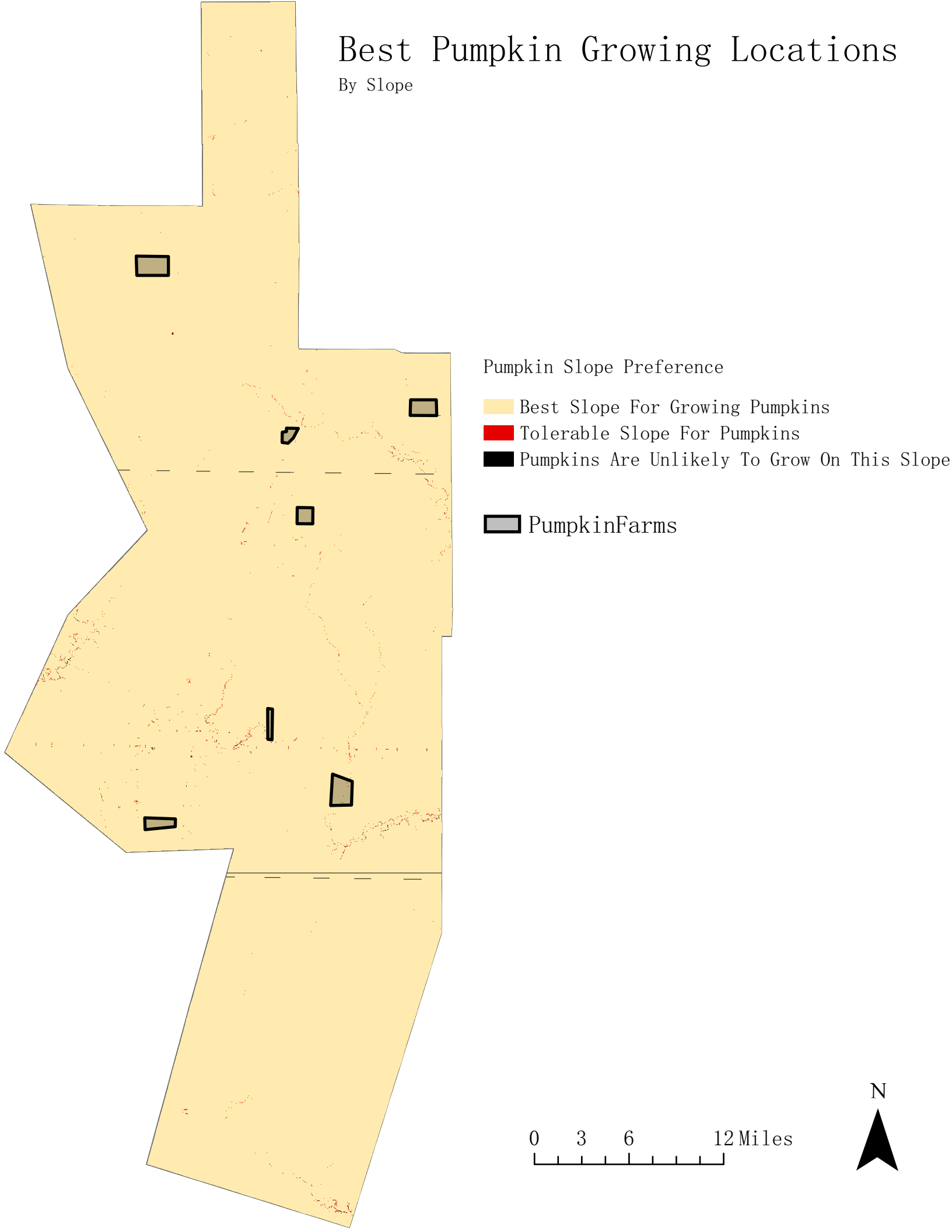
PumpkinFarms

0 3 6 12 Miles



Best Pumpkin Growing Locations





By Slope



Best Pumpkin Growing Locations

By Geology

Pumpkin Growth Determinate By
Geologic Preference

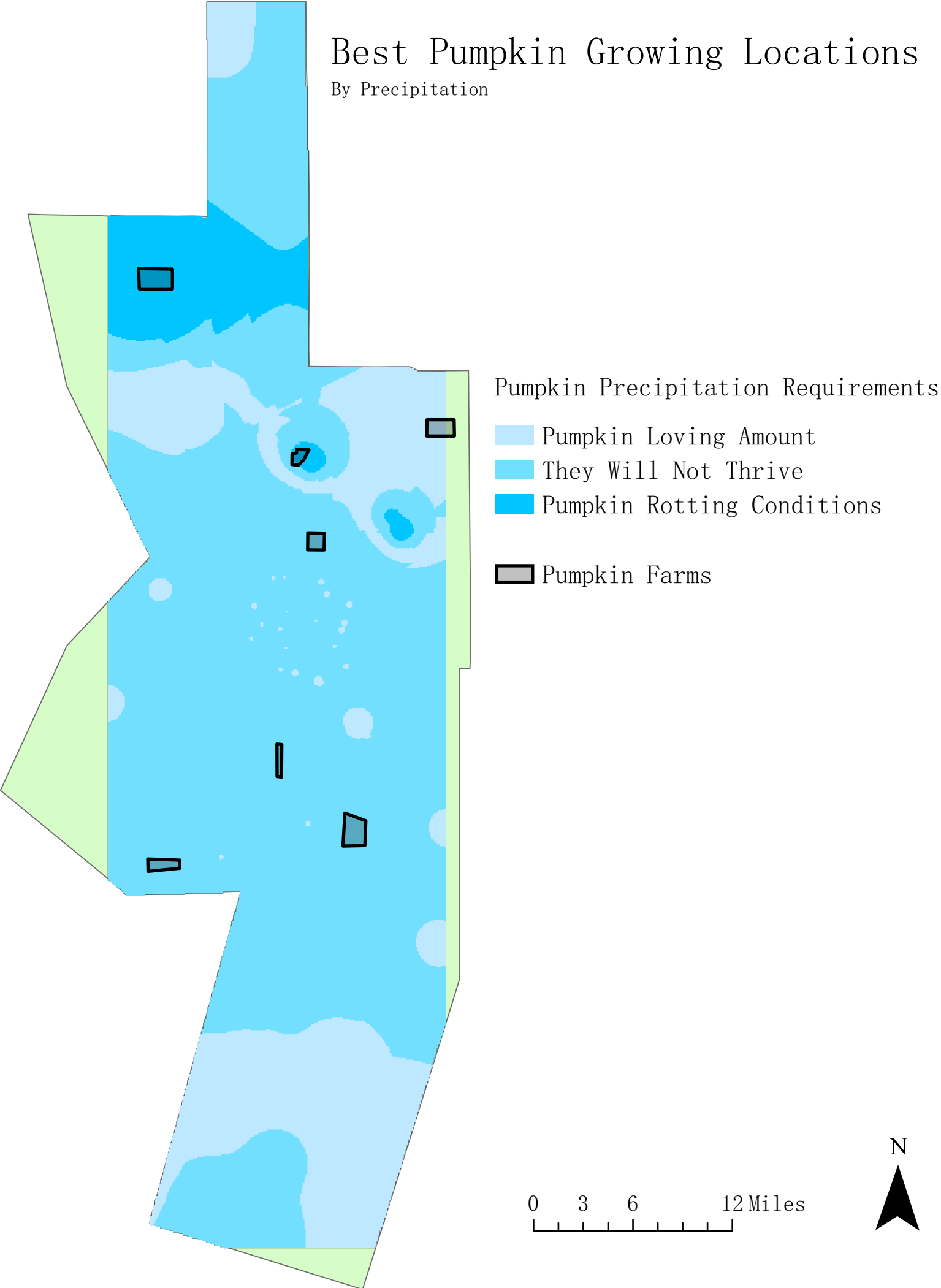
-  Pumpkins Love This Soil
-  Growth Will Not Be Abundant
-  Pumpkins Prefer Shale The Least
-  Pumpkin Farms

0 3 6 12 Miles



Best Pumpkin Growing Locations

By Precipitation



Chief Hopper,

I would like to start by thanking you again for allowing me to use your data about precipitation, elevation, geologic qualities, and the different types of landcover in Rowan County. Although this has been a great opportunity to learn, I have to admit these may not be my best work, but they do get you closer to the answer you desperately need!

At the start of this research I was convinced that only Farmer Merrell was at risk of having his pumpkins destroyed, but after further research and some calculations I can rank the likelihood of which farms might be next!

From lowest risk to highest risk, and the order of which you should be on the lookout are Farmer Mahmoudi and Farmer John's farms, then Farmer Joe and Farmer Karen, and then surprisingly Farmer Merrell! I figured he would be at the top! Next would come the Rival Farmer and lastly, Farmer Billy Bob. I don't the Rival Farmer was after Farmer Merrell's pumpkins after all. They were more like to rot, however, his farms met the conditions for some decent pumpkin growing! If I'm honest, I think it just might be the demogorgons after all.

I thought it would be best to make individual maps for you so you could more clearly see each component I used to evaluate the threat to the Farmers' fields.

I wish you the best of luck on your investigation and stay safe!

Respectfully,

Emilie Graham
GIS Specialist