**Using Geospatial Intelligence to Determine the Optimal Flood Mitigation Technique for the Pecatonica River**

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Table of Contents

**Abstract3**

**Background4**

Introduction4

Literature Review: Flood Models6

Literature Review: Mitigation Techniques10

**Goals and Objectives11**

**Methodology12**

Data and Material12

Software 12

Analysis and methods 13

Challenges and Limitations16

**Results17**

**Discussion23**

Flood Model Results23

ACH Matrix Results 24

**Conclusions25**

**References27**

**Abstract**

The Pecatonica is a small river located in south-central Wisconsin and northwestern Illinois. From 2017 to the present, there have been seven major flooding events in the region that devastated crops and inundated Freeport, IL. This project compares and contrasts the outputs from four or more (depending on data and software availability) flood models which have not been previously tested on a smaller river like the Pecatonica. In doing so, I have determined the relative accuracy of each model analyzed. The best-performing model was identified from an accuracy assessment which is the HEC-RAS flood model. Next, the population data were analyzed to determine the regions at highest risk for flooding using spatial analysis. Then, an Analysis of Competing Hypothesis (ACH) matrix was utilized to determine the best probable mitigation technique for the region. Last, the mitigation technique was simulated with the best-performing flood model. This project shows the value of modeling and spatial analysis in reducing flood risk in the Pecatonica River region and potentially guides policymakers' thinking in the region regarding how they can implement better flood mitigation techniques than those currently used.

1. Background
   1. Introduction

This project analyzes past flooding events on the Pecatonica River and the surrounding region of south-central Wisconsin and northwestern Illinois (Figure 1). I utilized a flood model to simulate a flood and then examine the population affected to determine the high-risk regions that experience the floods. Utilizing the same flood simulation model, I next determine the best flood mitigation technique to use on the Pecatonica River by employing an Analysis of Competing Hypotheses (ACH) Matrix and then simulate that flood mitigation technique on the flood model to compare and contrast the difference in the flood in terms of the total acreage of land covered by runoff water.

The Pecatonica River begins in Iowa County, Wisconsin, goes through Stephenson County in Illinois, and then merges in the Rock River in Winnebago County, Illinois, before merging into the Mississippi River. The Pecatonica River measures 194 miles long, and the watershed covers over 1.2 million acres between Illinois and Wisconsin *(U.S. Department of Agriculture, 2008)*.

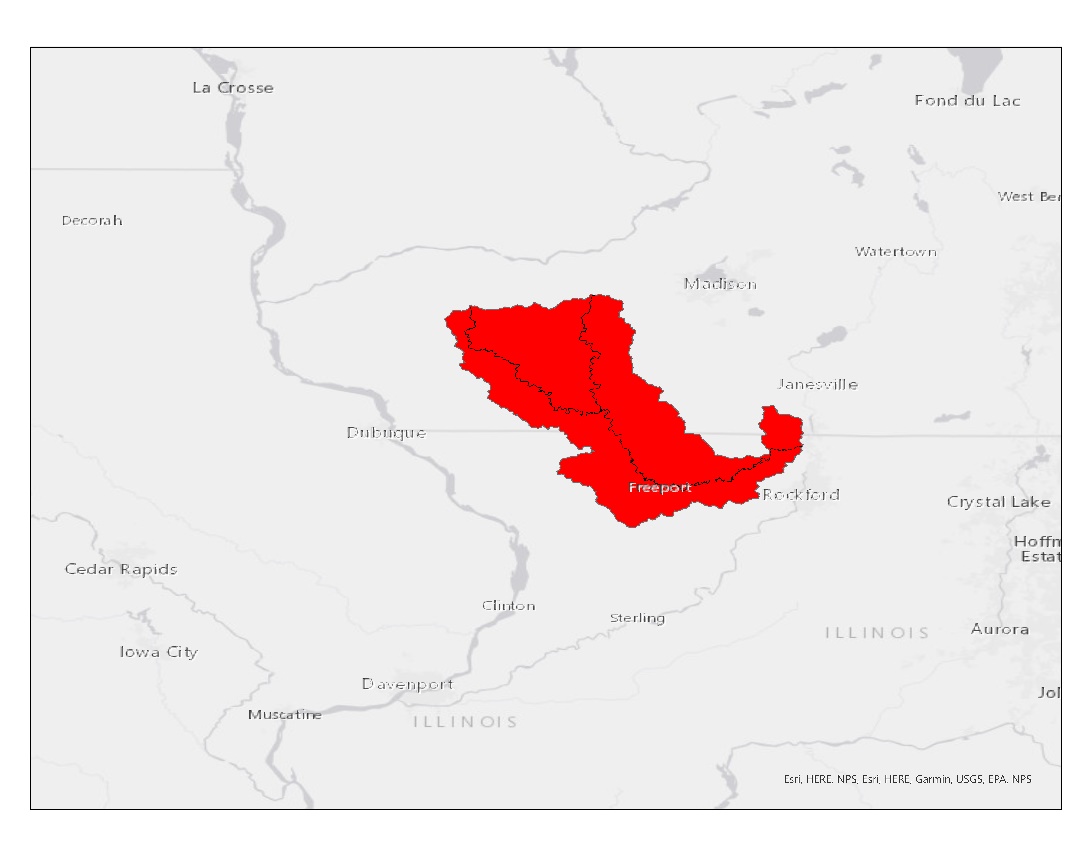


Figure 1 The Pecatonica River Watershed (Red highlighted area).

The climate has been changing rapidly in the approximately last ten years, where the amount of rainfall in a storm typically ranges from 0.5 inches to 2 inches compared to 0.25 inches to 1.0 inches previously. Also, the frequency of 2+ inches of storm rainfall has increased. For the city of Freeport alone, over $1.5 million was spent in flooding cleanup efforts since 2017 (Chase, 2019). Moreover, 87% of the acreage in the watershed is farmland, and most of those farmers lost tens of acres of crops each which combined can be hundreds of acreage of fields destroyed by floods during the growing season (U.S. Department of Agriculture, 2008).

There are multiple flooding types: flash flooding, saturated soils with heavy rainfall, flood mitigation equipment failure, and ice jams and frozen ground. According to the National Weather Service (NWS), flash floods are the primary cause of death from severe weather, almost impossible to control (NWS, 2020). Flash floods last for only a relatively short time (less than 6 hrs. according to the NWS) and are caused by a vast amount of water that the land cover cannot drain sufficiently fast. However, as soon as the cause of the flash flood stops, the waters begin to recede quickly. The next type of flooding event is typically caused by a long-duration rain event with snowmelt (during the winter and spring months) where the soil can no longer absorb more water, which on the surface becomes runoff. The flood mitigation equipment failure type of flooding is self-explanatory. The last flood type occurs only in the winter and/or spring months when ice build-up on the rivers begins to break apart, and some of the larger chunks get grounded on bridge supports or by giant boulders in the river, followed by more ice chunks accumulating on the stuck ice. This process creates an ice jam that causes river levels to rise locally, generating a flood.

According to the NWS Weather Event Archive (1950 to present), there have been twenty-five flooding events in NWS Quad Cities County Warning Forecasting Office Region. Of those events, eighteen took place around the Pecatonica River. However, not all these floods were due to heavy rainfall on saturated soil. A flooding event in June 2010 was caused by the dam breaking in Lake Delton, Wisconsin. The February 2018 flooding event was caused by ice jams, snowmelt, frozen ground, and heavy rainfall, and the remaining events were caused by heavy rainfall onto saturated soil. Before the early 2000s, there have been only four flooding events where the remaining event took place after the year 2000, and from 2017 to the present, there have been seven flooding events on the Pecatonica River.

1.2 Literature Review

*Flood Models*

Many flood models have been developed, with each model having its strength and weaknesses. Some models are suitable for larger rivers, and some are suited for smaller rivers; some models can handle high-resolution raster data, and others struggle to process high-resolution raster data. I explore seven different models to determine the best one for this project. Next, I examine the different possible flood mitigation techniques used along the Pecatonica River Basin. The first model I review is the LISFLOOD model, which uses meteorological data (evaporation, precipitation amount, precipitation rate, dew point, soil moisture, and temperature) with the land cover, DEM raster, and soils to model flooding events (van der Knijff et al., 2010). This flood model is a reasonable consideration because it considers meteorological data and the geology of the study area and would be expected to work well for my project. However, the input data required -- soil moisture, groundwater content, evaporation, evapotranspiration, rain rate, and amount of rain -- are not widely available in the region to reliably model the flood. Also, this flood model was developed to work on large river basins, so it could be adaptable to determine how well it works on smaller river basins.

The U.S. Geological Survey developed the GIS Flood Tool (GFT) model to work with Digital Elevation Models (DEMs) to simulate flood patterns around rivers. The GFT was designed to be used in areas around the globe that do not have access to the vast amount of data required to compile a flood model. Also, the GFT is a toolset in ArcGIS, so users will generally be more familiar with the tool. This model can be used with either low-resolution DEMs or the high-resolution (i.e., LIDAR) DEM (Verdin et al., 2016). This tool should be useable for my project and generate valid results, but, just like LISFLOOD, this model has not been used on a river as small as the Pecatonica River.

Third, the Shannon's Entropy Flood Model uses ten different raster inputs (i.e., land use, lithology (characteristics of the rock), soil type, drainage density, distance from the river, topographic wetness index (TWI), altitude, slope aspect, slope angle, and plan curvature (curvature of the Earth)) to compile the flood surface map. Most of the ten variables can be calculated using a raster calculator in ArcMap, or ESRI already developed a tool to develop the raster data. To calculate the flood susceptibility index (FSI), the authors used the following equation:

FSI=(L Pj × Wj) + (LU Pj × Wj) + (DFR Pj × Wj) + (St Pj × Wj) + (S Pj × Wj) + (SA Pj × Wj) + (P Pj × Wj) + (TWI Pj × Wj) + (DD Pj × Wj) + (A Pj × Wj)

Where Wj and Pj are the final weight, and the probability density for the jth feature, L, L.U., DFR, St, S, S.A., P, TWI, D.D., and A are, respectively, lithology, land use, distance from the river, soil texture, slope, slope aspect, plan curvature, topographic wetness index, drainage density, and altitude (Haghizadeh et al., 2017). Based on the model's results on the Gorgan Rood River in Iran, it seems appropriate to use for the FSI. I will use this model in my analysis according to data available on soil composition and lithology.

Another model to investigate is the Artificial Neural Networks (ANN) flood model. This model incorporates machine learning and artificial intelligence, where one provides input training data along with the variables of elevation, topographic slope, flow accumulation, geology, land use, soil, and rainfall rates. This model has three components with one being the training as mentioned previously, and the other two components are the ANN architecture; that is, how the input data will be manipulated and used in the hidden layers to derive a flood map, and the last component is testing of the model (Kia et al., 2012). Because this model incorporates machine learning and artificial intelligence with advanced programming knowledge and computer resources to which I do not have access, I will not incorporate it into my project. However, it will be informative to see which raster datasets are used in all the models to understand better which datasets are the most important to use in a flood model.

Abdulrazzaq et al. (2018) utilized the ArcGIS Hydrology toolset to compile a flood probability map for the Wasit providence in eastern Iraq. The datasets used for this case study were a DEM, satellite imagery of the region (to verify the results of the flood map), and a raster dataset of the rainfall amount in the region for a specified time period (Abdulrazzaq et al., 2018). Because these tools are readily available in ArcGIS, I will use them in the hydrology toolset to compile some of the information needed for the flooding simulation of the Pecatonica River.

The LISFLOOD-FP flood model is based on the earlier LISFLOOD, but is designed to handle the high-resolution DEMs becoming more readily available. Similar to the rest of the flood model, the primary input dataset is the DEM raster data. Table 1 below summarizes the data parameters for this model.

![A close up of a newspaper

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFkYW0gVHJveGVsbAAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzc5AACSkgACAAAAAzc5AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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I/6HLw/wD+DSD/AOKoA6Siub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoA6Siub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoA6Siub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoA6Siub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoA6Siub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoA6Siub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoA6Sio7a5gvLWK6s5o57eZBJFLE4ZJFIyGUjggg5BFSUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf//Z)

Table . Summary of the data and parameters used by the LISFLOOD-FP flood model (Bates & De Roo, 2000).

As can be seen from Table 1, most of the data requirements are gathered from the DEM data with the inflow discharge hydrology obtained by the river gauge. Moreover, the initial estimates of channel flow depth, channel and floodplain friction, and model time step are user input values determined from trial and error to get the best possible representation of those values (Bates and De Roo, 2000). Once again, most of the data used for this model's flood map are the same as those used in the other models already discussed.

The last flood model that I consider is the Hydrological Engineering Center's River Analysis System (HEC-RAS) flood model. The FEMA uses this model for generating its Digital Flood Insurance Rate Maps and is considered the standard of flood models. Another key advantage of this model is that it is used for determining flood mitigation measures and where to install them. Turner et al. (2013) used this flood model along a 1300m reach of the Boone Creek in Boone, North Carolina, to study the region's flood risk and determine the areas most suspectable to flooding. This model uses LIDAR technology for the DEM dataset. Khattak et al. (2016) used the same model to analyze flood risk for the River Indus and Kabul in the K.P. province of Pakistan. However, instead of LIDAR data, these authors used the Shuttle Radar Topography Mission DEM as their input dataset. Both case studies had an accurate assessment of the flood threat based on verification with satellite imagery. Because FEMA uses this flood model for its flood assessments, I will apply this method to determine the high-risk areas for flood threat along the Pecatonica River.

*Mitigation Techniques*

To prevent future flooding events impacting the population, one can attempt to mitigate the flood risk, but what is mitigation? From my undergraduate studies at Northern Illinois University, where I took GEOG 406 Natural Hazards and Environmental Risk course (Fall 2014), we discussed how mitigation is one attribute of the disaster cycle (Figure 2) where mitigation efforts are reactive to the current disaster but are proactive against future disasters of the same type. Is it possible to altogether remove the vulnerability to flooding? The answer is no; there will always be a vulnerability to flooding due to land use, people's perception of risk, and other environmental factors that humans cannot control (e.g., rainfall, ice jams, soil erosion, etc.). One can stratify mitigation techniques into two categories: structural and non-structural. The structural techniques pertaining to the current project are dams, levees, and retention ponds, while non-structural techniques include land-use planning, policies, insurance, and disaster aid.



Figure 2. The disaster cycle (photo credit to GEOG 406 class (Dr. Walker Ashley (Fall 2014)).

Thus, for the Pecatonica River region, the only mitigation techniques used so far are insurance and disaster aid, which are just a "band-aid" solution for the risk and not a solution to mitigate flood vulnerability. In this study, I examined past mitigation techniques used worldwide to potentially help reduce the flooding risk along the Pecatonica River Basin. I compared the different mitigation techniques with case studies in the Analysis of Competing Hypothesis section of the analysis portion of this project, to determine the likely best course of action for flood mitigation.

1. Goal and Objectives

The primary goal of this project is to determine a flood mitigation technique that minimizes flood risk along the Pecatonica River Basin and will also be cost-efficient. To analyze the different flood mitigation techniques, I employ four different flood simulation models utilizing a DEM dataset, land use, rainfall amount for a specific period, and other physical and environmental datasets. I compare the results of the simulations with a past flooding event to verify the simulation within the acceptable amount of error. The acceptable amount of error is a Kappa value greater than 50% between the simulated flood-damaged areas and the actual flood-damaged areas in the study region.

1. Methodology

3.1 Data and Material

 Table 2 shows the datasets used for the flood simulations and to determine the high-risk population in the most vulnerable region for floods.

Table . Summary of the datasets required for this project.

3.2 Software

The primary technologies that I use for this project are ArcGIS Pro and ArcMap. I also utilize the HEC-RAS version 5.07 software to compile the HEC-RAS one-dimensional flood model. Microsoft Excel is used to compile the ACH Matrix and to obtain the rainfall totals.

3.3 Analysis and methods

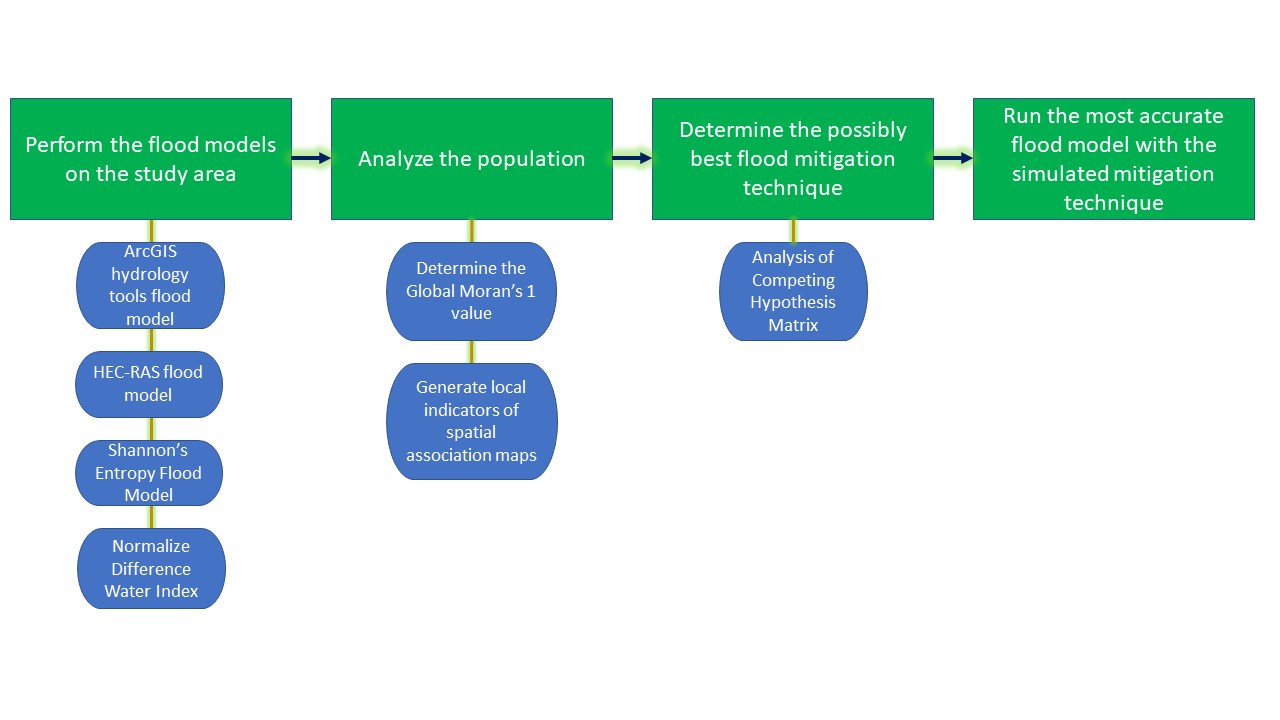
This project is separated into four different analysis stages: 1) Compare the different flood models' outputs to determine the most accurate one for the study area; 2) Analyze the population in the study area to determine the high-risk flood areas; 3) Determine the best probable mitigation technique for the high-risk areas; and 4) Simulate the flood mitigation technique in the most accurate flood model for the study area. Figure 3 shows the overall flowchart for the project.

Figure 3. This figure shows the flowchart for this project.

To determine which of the four flood models is the most accurate, I utilize the create accuracy assessment points tool in ArcGIS with 500 randomly generated accuracy assessment points (the same points are used for all models). Accuracy assessment points are random points generated for post-classification with their classification being verified and each point assigned to a class (flooded (1) or non-flooded (0)). The ground truth value points are based on the NAIP imagery, and images from the storm summarize pages from the NWS Quad Cities, Milwaukee, and LaCross Regional Forecasting Office websites. Figures 4 through 6 show the steps taken to complete the flood model simulations. Table 3 shows the equations used to determine the values needed to complete the Shannon's Entropy flood model calculated utilizing the ArcGIS Pro Map Algebra tool.

Diagram

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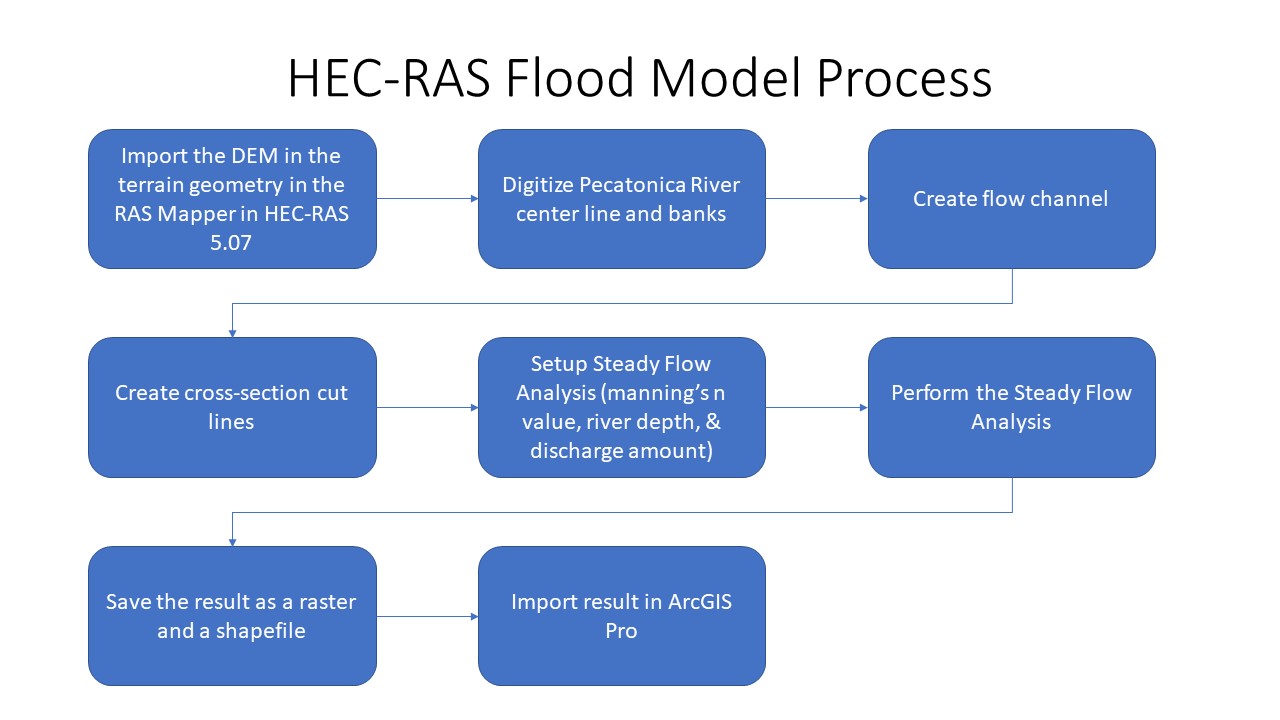
Figure 4. This figure shows the process steps and sequence to complete the ArcGIS Hydrology toolset flood model.

Figure 5. The order of the process steps to complete the HEC-RAS flood model used for this study.Diagram

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Figure 6. The flowchart of the processes to complete Shannon's Entropy Flood Model.

|  |  |
| --- | --- |
| **Shannon's Entropy Flood Model Equations Table** | |
| Equation | Description |
| dd= total length of watershed / the river basin | Used to determine the drainage density throughout the study area. |
| TWI=ln[local upslope catchment area / tan (slope)] | Used to find the topographic wetness index throughout the study area |
| a=the domain  b=flood percentage | The first equation in the series to find the weighted value for each term (#1 and #2 headings) described in the entropy flowchart |
| s=# of classes (n)  j=1, …,n | Probability Density:  The second equation in the series used to find the weighted value for each term. |
|  | Entropy Value:  The third equation in the series used to find the weighted value for each term. |
|  | Max Entropy Value:  The fourth equation in the series to find the weighted value for each term. |
|  | Information Coefficient:  This is the fifth equation in the series used to find the weighted value for each term. |
|  | Weighted Value:  The last equation in the series, which is the calculated weighted value of that term. |
|  | Flood Susceptibility Index:  Used to calculate the result of Shannon's Entropy Flood Model. |

Table . Shows all the equations used to calculate the Shannon's Entropy Flood Model result.

*Procedure:*

For the rainfall amounts observed for the August 16 through September 5, 2018 event, I utilized Microsoft Excel to get the total rainfall observed at each weather observation location. I then imported the Excel spreadsheet into ArcGIS Pro, where I generated points from the latitude and longitude in the Table. Next, I used the Kriging interpolation tool to generate a raster dataset that shows the total rainfall in the watershed. I then created a mosaic dataset to store the DEM and the NAIP raster files in the default geodatabase. Once all the images were uploaded to their appropriate mosaic dataset, I clipped the datasets to the watershed boundary shapefile and then saved them to the pc. In conjunction with the ArcGIS hydrology flood model, I used the Normalize Difference Water Index (NDWI) band arithmetic raster function on the NAIP imagery to a flood model that portrays standing water based on the green and near-infrared bands similar to NVDI. I then used the set null tool to set any value less than 0.3 to be null because any value less than that is categorized as non-water; I performed a low pass filter to remove the noise in the raster.

I did a “union” to combine the Illinois and Wisconsin Census Blocks into one feature class to analyze the high-risk flood areas demographics. I then used the clusters outlier tool on the median household income, where I also generated the Moran's I scatterplot to determine the presence of any spatial autocorrelation. Spatial autocorrelation is a term used to describe spatial variation in a variable where a positive value indicates areas that are close together to have similar values and a negative value indicates areas that are close together to have dissimilar values. I also performed a hot spot analysis on the household median income to identify any clustering of high or low income. Next, I performed an Analysis of Competing Hypothesis Matrix (ACH Matrix) to determine which mitigation technique is likely the best for mitigating flood risk. Last, the green river flood mitigation technique was simulated on the HEC-RAS software to compare and contrast the flooding mitigation technique versus the original terrain.

3.4 Challenges and Limitations

The main challenges and limitations of this project are data availability and flood model software availability. The study area for this project, mainly rural, is not highly populated, making the availability of conventional high-resolution data scarce. Another limitation I faced was the software availability of the flood models (i.e., The GFT and LISFLOOD), where I could not locate the GFT on the web because the developers discontinued the model. I also faced a limitation with the LISFLOOD-FP software where the software was not loading the river file and was not giving any errors, which made pinpointing the problem difficult. Despite these challenges and limitations, I was still able to generate meaningful results for four models.

1. Results

Figures 7 through 10 show the results of the ArcGIS Hydrology toolset model, NDWI, HEC-RAS model, Shannon's Entropy flood model, and the spatial analysis results. Table 4 shows the accuracy assessment for each model result. Figure 11 shows the spatial analysis of the median household income of the study area. Table 5 shows the analysis result of the ACH Matrix. Figure 12 shows a comparison between before and after adding green rivers in the study area with the NAIP imagery underlay.

Map

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Map

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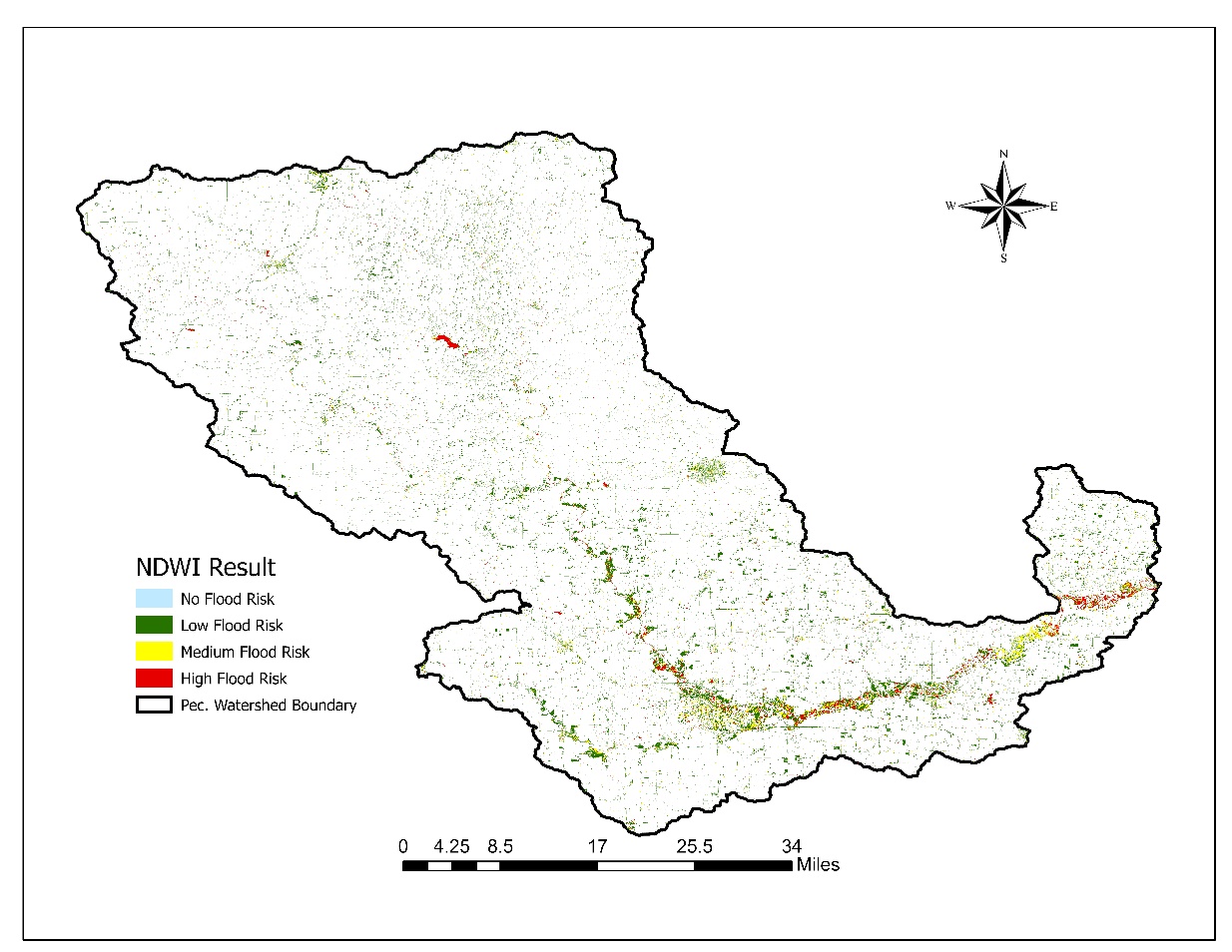


Figure 8. The flood risk from the NDWI result.

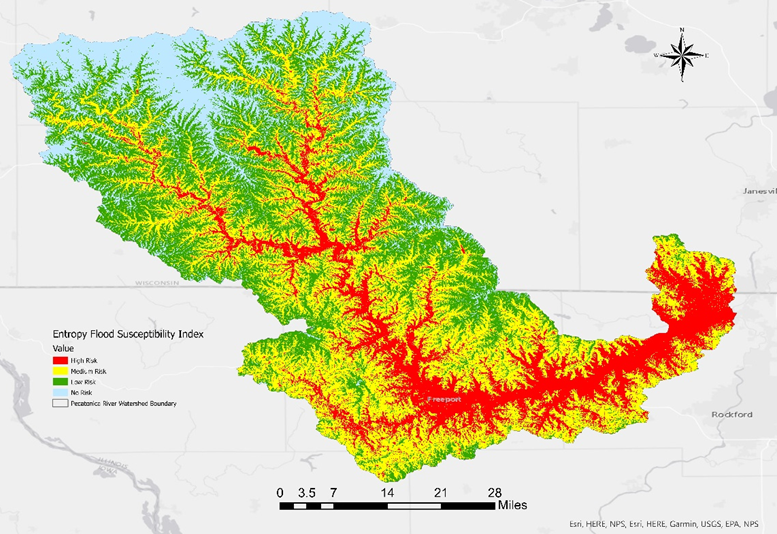


Figure 9. The Entropy flood susceptibility index map.

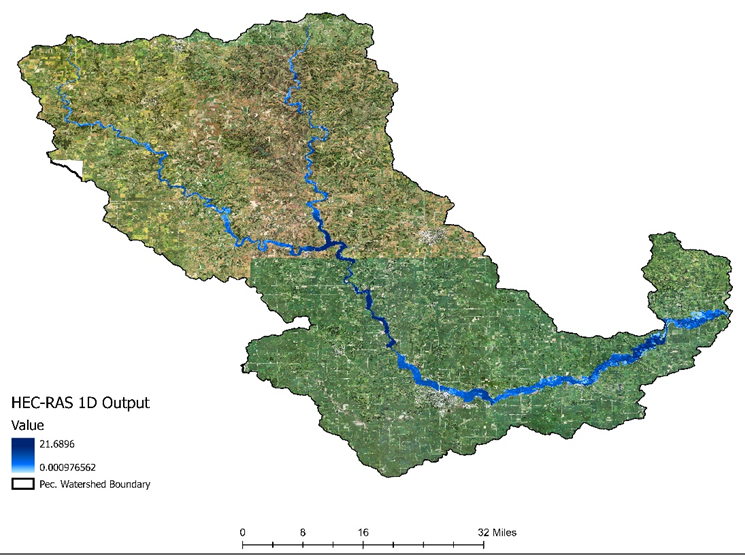


Figure 10. The HEC-RAS output overlay with the NAIP imagery.



Table . Accuracy assessment results for the analyzed flood models.

Map

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Figure 11. Images showing the spatial analysis result for the human population inside the Pecatonica River watershed.



Table . The ACH Matrix completed for this project, where the hypothesis that has the most "C"'s (= consistent evidence) in that column is the most likely hypothesis.

Map

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Figure 12. These two images show the before and after the addition of the green river flood mitigation technique in the watershed. The left side shows McConnel, IL, and the right side shows Freeport, IL Eastside.

Of the four different flood models analyzed in this study and from the accuracy assessment, the optimal flood model to be used for the Pecatonica River watershed is the HEC-RAS flood model. The spatial analysis of the median household income of the population in the study area shows a weak positive autocorrelation, meaning that the census tract values have similar values. The cluster outlier analysis identifies values that are not like the surrounding clusters, in which regions with outliers are identified as High-High, and the regions with little to no outliers are identified as Low-Low. The hot spot analysis identifies statically significant spatial clusters in the median household income census tracts where the hot spots indicate the high significance and the cold spots indicate low significance.

The ACH Matrix was completed using over twenty different case studies, research papers, journals, and reports where I had twenty-five different types of evidence for four different flood mitigation techniques (green rivers (natural, artificial rivers), levees/dredging, flood policies, and dams). The hypothesis that contains the most consistent evidence ("C") is the most probable flood mitigation technique to work the best for the Pecatonica River. From this analysis, the best flood mitigation technique for the Pecatonica River is the implementation of the green river mitigation technique along the Pecatonica River, which is a green infrastructure mitigation technique where engineers create an artificial waterway that fills up during high tides or flooding events. The green river mitigation technique slows down the flow, increases water volume, and promotes a healthy natural wetland ecosystem when implemented. As Figure 12 shows, the addition of the green rivers reduces the simulated flood risk with the approximately additional fifty million cubic feet of water volume to store more water and slow down the flow of the Pecatonica River during flooding events. Figure 13 shows the simulated placements of the green rivers along the Pecatonica River.

Map

Description automatically generated

Figure 13. Location of the simulated green river placements. Upper Left is located where the East and West branches combine. Upper Right is located in Winslow, IL. Lower Left is located around Freeport, IL. The lower Right is located between McConnel and Freeport, IL.

1. Discussion

*Flood Model Results*

The flood models analyzed in this study show congruency in the placement of the flood risk; however, each flood model has limitations. The ArcGIS Hydrology toolset model is the most accessible model to complete, but as soon as a zone that did not contain a portion of a river or lake, it underestimates the flood risk. The NDWI is a quicker and easier model to apply, but if the imagery with a near-infrared band captured during the flooding event is absent, the model cannot be applied. For this study, I was able to obtain imagery just after a flooding event (August 16 through September 5, 2018) in the study area that allowed me to apply this model. However, in the Central Wisconsin region, the imagery was captured up to a couple of months after the flooding event, so the model did not perform accurately in that region, causing the lower Kappa value on the accuracy assessment. The Entropy flood model looked initially entirely accurate in terms of predicting flood risk, but upon closer examination, it tended to exaggerate the risk in the small streams that feed into the Pecatonica River. The entropy model also exaggerated the flood risk in populated regions like Freeport, IL, and Darlington, WI. Looking at the datasets required to perform this model, I suspect that this model was developed for a larger river basin because the model considers Earth's curvature and the rock type since those data do not change in a small scale scenario based on applying this model to the Pecatonica River watershed.

The HEC-RAS flood model outperformed the other three flood models analyzed in this study even though this model did not consider the smaller streams flowing into the Pecatonica River as there are no river gauges from which to accurately portray the depth and velocity of streams. The version of the HEC-RAS flood model that I applied did not consider the rainfall amount, which can explain why this model exaggerated the depth of floodwaters at the upstream of the rivers and why some regions adjacent to the Pecatonica River just stopped once they got so far away from the Pecatonica River. Had it been possible to add the rainfall amounts for the specific flooding event used in this study into the HEC-RAS model, a more accurate result could have been obtained before and after adding the green rivers.

*ACH Matrix Result*

The ACH Matrix comprises four different flood mitigation techniques, three are structure techniques, and one is a nonstructure technique, as follows: 1) green rivers, 2) adding levees and dredging the river, 3) flood mitigation policies, and 4) adding dams to control the flow. The flood mitigation policy method is included to give policymakers a baseline of what the current mitigation technique is compared with the structure techniques that could be implemented on the Pecatonica River. Having grown up in the study area and knowing about the region's economy, the cost is the primary factor for why policymakers have continued the policy approach instead of the structured approach for mitigating flood risk. According to the evidence comprising the ACH Matrix, the green river flood mitigation method is relatively cost-efficient because there are very few materials required to complete the method, which can be highly effective if done correctly. Also, with the green initiative currently being advanced, the green river method promotes a healthier wetland ecosystem where implemented. There is a drawback to this method which is that the total acreage of cropland that would be transformed for this flood mitigation technique is approximately 450 acres; however, if the technique can save more acreage of crops than is lost to the mitigation technique, the farmers are likely to permit the mitigation technique being implemented on their cropland.

1. Conclusions

This study aimed to determine the best flood mitigation technique for the Pecatonica River watershed located in Southwestern Wisconsin and Northwestern Illinois; to find the optimal flood model for application to smaller river basins; and to determine the best flood mitigation technique as the optimal flood model. Based on the four different flood models analyzed in this study (ArcGIS Hydrology toolset model, NDWI, Shannon's Entropy flood model, and the HEC-RAS flood model), the HEC-RAS was determined to be the flood model most accurately simulating a real-world flooding event that was utilized as the ground truth for the flood model assessment. According to the evidence acquired for the ACH Matrix, the best flood mitigation technique for the Pecatonica River is to add green rivers along the river. Last, from the simulated flood using the HEC-RAS flood model with green rivers included, the green river flood mitigation technique reduced the flood risk throughout the Pecatonica River watershed. In sum, this study represents a baseline for future studies on flood models and flood mitigation techniques on smaller river basins as the flood risk along rivers continues to increase with climate change. Geospatial analysis is a valuable tool in many disciplines, including environmental studies. Combining environmental data with geographical data to analyze hazards and impact studies for a specific threat in a particular location is becoming in high demand with climate change and an increase in the frequency of natural disasters. Furthermore, as climate change poses a threat to human life, coastal flooding and river flooding are becoming a more significant concern. Geospatial analysis can identify high-risk areas, simulate what will happen if the oceans rise to a specific level, and reevaluate the 100-year floodplain maps to more accurately portray the floodplains.

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