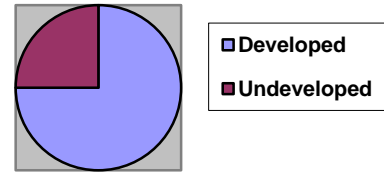


## Town 1: Moose City

Composition: 75% of the land is developed  
25 % of the land is undeveloped open space



Since most of the land in your town is developed, biodiversity is low, and you begin with -10 biodiversity cards. Air pollution is also a problem, along with water quality and human health as a result of these pollution issues (-10 air quality cards, -10 water quality cards and -10 human health cards).



You have \$10,000 to spend, which is more than the other towns since your residents pay more in taxes. You can take out a loan from the bank in the amount of \$10,000. Each decision has a number next to it that tells you how many residents like the idea. If you would like to be re-elected, you need to be sure that 60% of the residents like your ideas (on average).

- Moose City is a medium sized city with about 50,000 inhabitants (this is about half the size of Schenectady, New York).
- Moose City is surrounded by a ring of suburban development that includes some fields and small parks.
  - In the last 10 years, many people from nearby rural areas have moved to Moose.
  - Purple Creek runs through the center of Moose City, bringing pollution from other parts of the watershed (Rabbit, Woods).
  - People in the city work in a variety of businesses, including a lawn furniture company, a hospital, a community college, restaurants and shops. The city promotes new business, providing more money (through taxes and jobs) for the town. This money can be spent on town improvements.
  - Transportation is a major issue. Without bike lanes or a well-organized bus system, people are forced to drive. This creates a lot of traffic and smog.

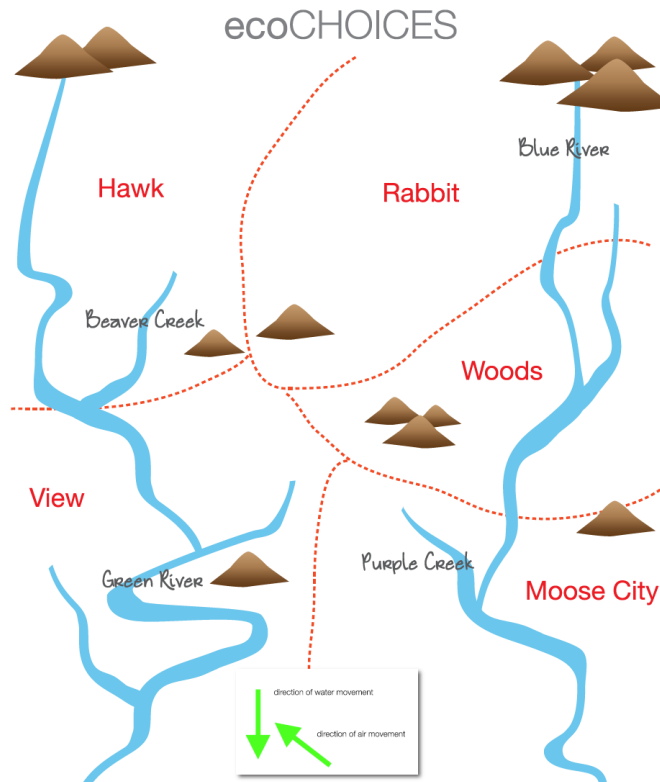


- The lack of outdoor natural space is another issue raised by residents. There are many vacant lots in the city, but most of them are polluted and would require expensive clean-up. Because there are few plants (which can help clean the air) and a lot of traffic, there are unsafe levels of air pollution causing respiratory problems for some residents of Moose City.

Describe the citizens of Moose City:

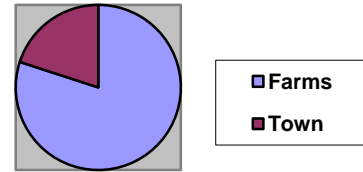
Complete the table below

Constraint	Consideration
Can't spend more money than you have	Environmentally-friendly development



## Town 2: Rabbit

Composition: 80% farms  
20% homes and businesses in town



Although you don't have much open space, the borders of the farms provide some area for plants and animals, so you begin with 2 biodiversity cards. There are some air pollution problems from the farms (-3 air quality cards). Water pollution is a big problem, because of all the excess fertilizer and manure that runs off into the waterways (-10 water quality cards). This causes health problems, so you start with -5 human health cards.



You have \$5,000 to spend. You can take out a loan from the bank in the amount of \$5,000. Each decision has a number next to it that tells you how many residents like the idea. If you would like to be re-elected, you need to be sure that 60% of the residents like your ideas (on average).

- Rabbit has about 8,000 residents, but has more space than Moose City. The town of Rabbit has many farms because the soil is good and Blue River supplies the farms with plenty of water.
- For the last few hundred years, these farms were small and mainly produced vegetables, apples and milk. In the last 15 years, these small farms have had to compete with larger industrial farms in the West and Midwest. So now one of four things has happened to the farmers:
  1. Some farmers are trying to preserve their small family farms by growing certified organic produce for the Farmer's Market in Moose City. Organic vegetables are produced with no chemicals (pesticides that kill insects, or herbicides that kill weeds).
  2. Some farmers have become larger and have to use a lot of pesticides and fertilizers in order to produce a larger harvest.
  3. Some farmers have had to sell their farms because they could not compete.
  4. A few farmers are starting to raise cows, chickens and pigs for meat. One farm is asking the town if they can build a chicken operation.
- Some residents are concerned that the increase in the amount of chemicals from the large farm and the increased amount of animal waste from the chicken farm could pollute the groundwater. Since many residents rely on well water for drinking, this is a big concern.

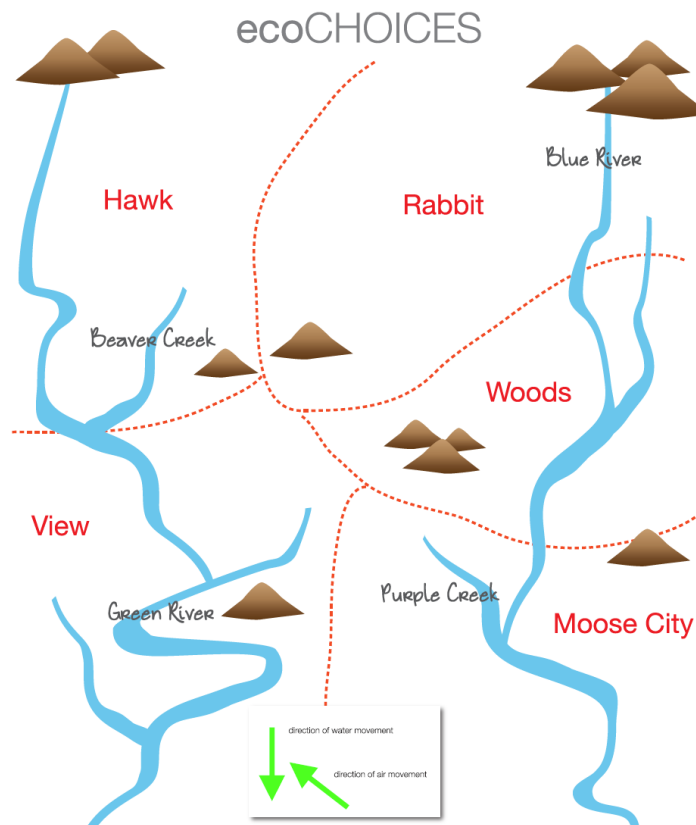


- The few organic farmers are concerned that some pesticides may blow into their farms.
- The town provides food for the rest of the county.
- Most of the younger people in Rabbit are moving away to find jobs in larger towns and cities. This has left many of the residents of Rabbit concerned about the future of their farms and town.

Describe the citizens of Rabbit:

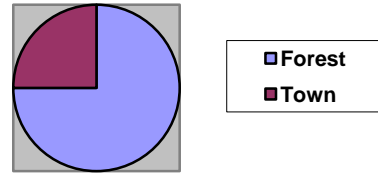
Complete the table below

Constraint	Consideration
Can't spend more money than you have	Having jobs for people who want to stay



### Town 3: Hawk

Composition: 75% forest preserve  
25% homes and town buildings



The high amount of forest in the town of Hawk means that you have high biodiversity, and so you begin with 6 biodiversity cards. Air pollution from Moose City affects you negatively, so you start with -6 air quality cards. Water quality is very good since you are at the headwaters of the watershed (5 water quality cards). The air pollution has caused some problems, however, so you have -5 human health cards.



You have \$5,000 to spend. You can take out a loan from the bank in the amount of \$5,000. Each decision has a number next to it that tells you how many residents like the idea. If you would like to be re-elected, you need to be sure that 60% of the residents like your ideas (on average).

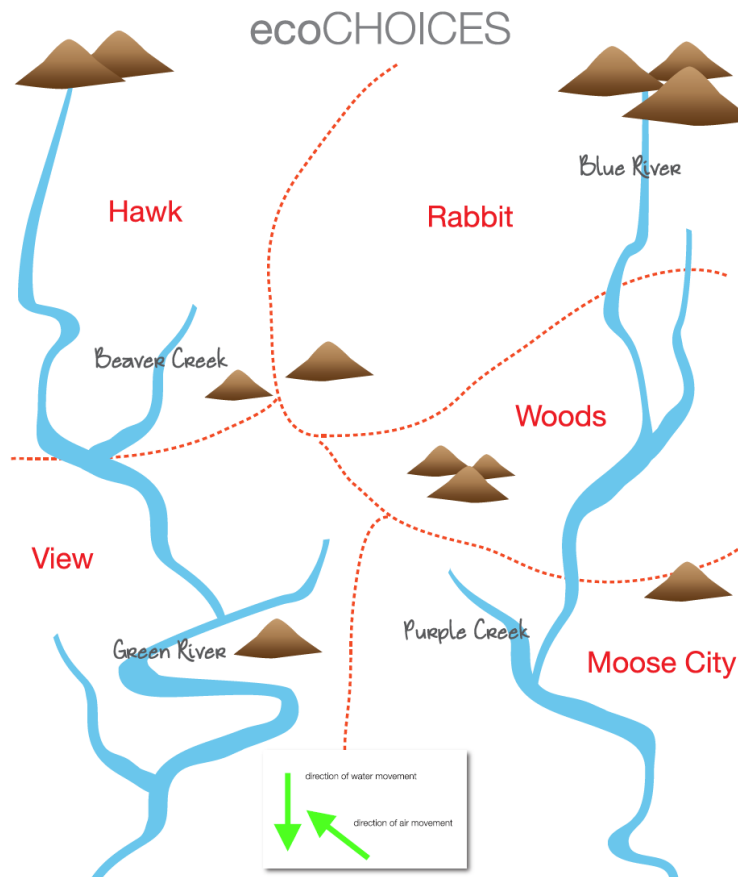
- Most of Hawk is a State Forest Preserve with a few small villages scattered in the area.
- The main business in Hawk is tourism, but there is some logging and hunting. Also, there are two ecology research stations that provide important information about the health of the forest in Hawk.
- People who live in Hawk have been in the area for generations, but some new people have moved in to make money from tourists by renting snowmobiles, 4 wheel drive vehicles and opening hotels and ski resorts. Tourists enjoy coming to Hawk because it has a lot of natural areas. Without many businesses to employ them, residents of Hawk often spend a lot of time driving to other towns for work.
- Downstream towns provide money to keep Hawk forested so that the water in the county is clean.
- Since there are limits to building new homes and businesses in Hawk, money will likely come in from the government. The government will pay for protecting nature or for improving roads, trails and buildings for tourists.
- There is major fight in Hawk between the landowners (who would like to see a small amount of economic development) and the State (who must protect the natural environment of Hawk).



Describe the citizens of Hawk:

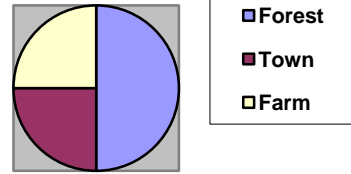
Complete the table below

Constraint	Consideration
Can't spend more money than you have	Balancing development and forest preservation



## Town 4: View

Composition: 25% homes and town buildings  
50% forested (private land)  
25% farms



**View is a country town, with a lot of forest, some farms and some small businesses. Due to the amount of open space, you will begin with 4 biodiversity cards. However, air pollution from Moose City means that you begin with -5 air quality cards. Water quality is very poor, since View gets polluted water from the logging operations in Hawk (-10 water quality cards). Consequently, there are problems with human health, and you begin with -8 human health cards.**



**You have \$7,000 to spend. You can take out a loan from the bank in the amount of \$7,000. Each decision has a number next to it that tells you how many residents like the idea. If you would like to be re-elected, you need to be sure that 60% of the residents like your ideas (on average).**

- View is close to Moose City and has a lot of outdoor recreational space. This makes View a perfect place for people who want to own a second home in the country or simply escape the City for a few days.
- The town center tries to stay old-fashioned and attractive. No large buildings can be built, neon signs are not allowed, and sidewalks are encouraged so that people can walk around easily.
- The town charges people in View high taxes, because there are so few businesses in town.
- Development continues to pressure the town as more and more people look for homes in quiet, natural areas. If more people move to View and build homes, the town would receive more money because each resident pays taxes. There are lots of residents who want to expand into the neighboring town of Woods.
- There are a number of farms in View, and some farmers would like to make their operations more intensive in order to make more money.
- The large amount of undeveloped space means there is lots of pressure for development.

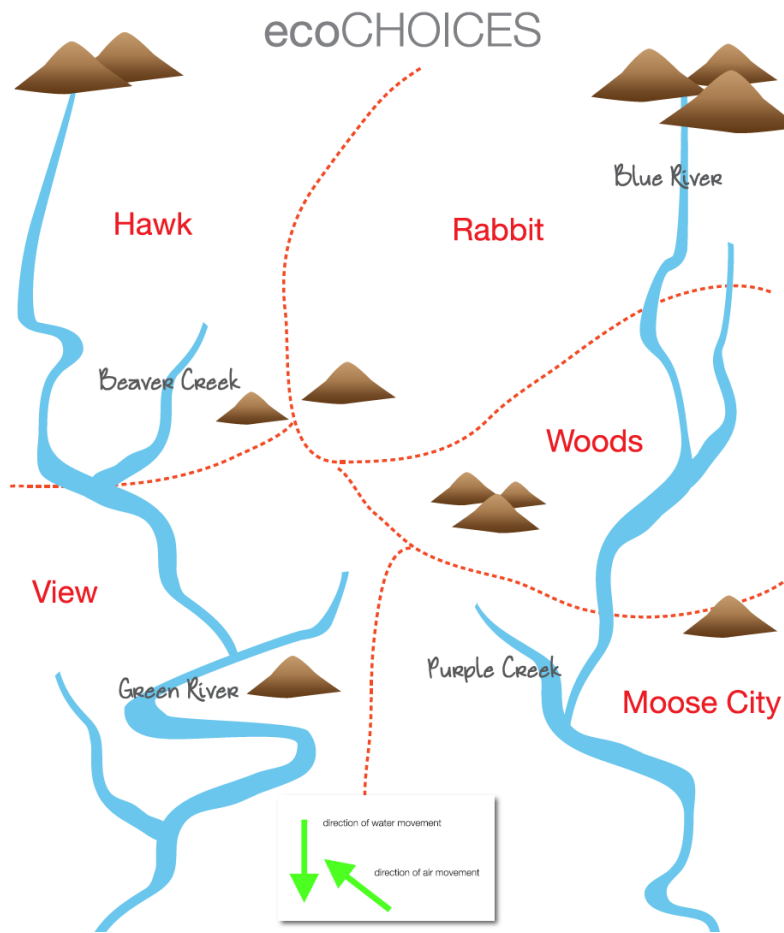


Describe the citizens of View:

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Complete the table below

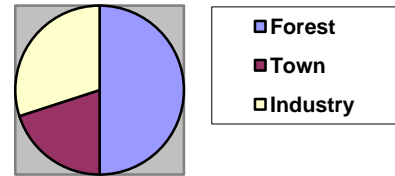
Constraint	Consideration
Can't spend more money than you have	Encourage small businesses





## **Town 5: Woods**

Composition: 50% forest  
30% industry (mills)  
20% homes and town buildings



**Woods is a town that is mostly forested, with a long history of logging and small businesses. Since there is so much green space, you will begin with 6 biodiversity cards. However, air quality is suffering because of air pollution from Moose City, so you have -5 air quality cards. Water quality is a problem because next door, the town of Rabbit is producing a lot of agricultural waste, so you start with -5 water quality cards. As a result of all of this pollution, about half of the people in your town suffer some sort of environmentally-related health issues, so you have -5 human health cards.**



**You have \$5,000 to spend. You can take out a loan from the bank in the amount of \$5,000. When you get your town choices, you will see that each decision has a number next to it that tells you how many residents like the idea. If you would like to be re-elected, you need to be sure that 60% of the residents like your ideas (on average).**

- Woods has a long history of providing paper for the region, and there are 2 large paper mills. Loggers cut trees down, then take the logs to these mills. At the mill, the wood is cut, washed, beaten and flattened into paper. Most of the trees used to make paper come from the forests in Woods.
- Several small companies also create handmade furniture and wood floors. However, competition is fierce and there are not enough trees to support all the people that need wood.
- There is also development pressure from the nearby town of View to create more space in Woods for homes. View does not want to build more homes within its own town limits, and so is encouraging people to move into Woods, buy land, and build homes.
- People who live in Woods come from families that have lived in the area for a long time, and they do not want to change their way of life. Unfortunately, the history of logging for timber and paper production has created an open understory in the forest.
- There are few businesses in Woods, and many people have to drive to View or Moose City in order to go shopping for household basics. Many residents want more businesses so that they don't have to drive so far.



Describe the citizens of Woods:

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Complete the table below

Constraint	Consideration
Can't spend more money than you have	Residents would like to use their forests to make money

