Grid and Tally Sheets

Print this grid on a separate page for each student team:


## Modelling Tally Sheet:

|  | Number of squares |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Types of Land | Initial scenario | Scenario 1 | Scenario 2 | Scenario 3 |
| Forest |  |  |  |  |
| Protected Forest | 0 |  |  |  |
| Forest areas with more than 5 connected squares |  |  |  |  |
| Fields |  |  |  |  |
| Protected fields | 0 |  |  |  |
| Field areas with more than 5 connected squares |  |  |  |  |
| Wetlands | 0 |  |  |  |
| Protected wetlands |  |  |  |  |
| Wetland areas with more than 5 connected squares |  |  |  |  |
| Water | 0 |  |  |  |
| Protected water | 0 |  |  |  |
| Industrial lands | 0 |  |  |  |
| Residential lands |  |  |  |  |


| Income from economic activity: <br> (Number of Industrial land squares $\times \$ 10,000$ ) | 0 |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Human population: <br> (Number of residential land squares $\times 100$ ) | 0 |  |  |  |
| Biodiversity: <br> (Number of species that can survive in the scenario) |  |  |  |  |

## Biodiversity Counter:

| Animal | Requirement | Initial <br> scenario | Scenario <br> $\mathbf{1}$ | Scenario <br> $\mathbf{2}$ | Scenario <br> $\mathbf{3}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Wolf | Six areas of 5 or more connected squares of <br> woods or fields |  |  |  |  |
| Trout | 5 squares of water |  |  |  |  |
| Raccoon | 5 squares of any land space (undeveloped or <br> developed) |  |  |  |  |
| Minnow | 1 square of water |  |  |  |  |
| Fox | 5 squares of protected forest |  |  |  |  |
| Blue Jay | 3 squares of forest, fields, or wetlands |  |  |  |  |
| Eagle | 20 squares of protected squares |  |  |  |  |
| Squirrel | 2 squares of any undeveloped forest of field <br> space |  |  |  |  |
| Deer | one area of more than 5 connected forest <br> squares |  |  |  |  |
| Moose | Two areas of 5 connected forest squares |  |  |  |  |
| Loon | 5 squares of protected water |  |  |  |  |
| Beaver | 5 squares of protected wetland |  |  |  |  |
| Frog | 1 square of protected water |  |  |  |  |
| Chipmunk | 4 squares of forest or fields | 5 connected squares of field or 2 squares of <br> protected field | 5 connected squares of wetland or 1 square of <br> protected wetland |  |  |
| Snake |  |  |  |  |  |
| Turtle |  |  |  |  |  |


|  | Initial <br> scenario | Scenario <br> $\mathbf{1}$ | Scenario <br> $\mathbf{2}$ | Scenario <br> $\mathbf{3}$ |
| ---: | :---: | :---: | :---: | :---: |
| Number of unique species: |  |  |  |  |
| Total number of animals: |  |  |  |  |

