

Impact of Urban Development

SNC1D Sustainable Ecosystems

Grid and Tally Sheets

Print this g	grid on a se	eparate pag	ge for each	student te	am:		



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							
Protected wetlands	0						
Wetland areas with more than 5 connected squares							
Water							
Protected water	0						
Industrial lands	0						
Residential lands	0						
Income from economic activity: (Number of Industrial land squares x \$10,000)	0						
Human population: (Number of residential land squares x 100)	0						
Biodiversity: (Number of species that can survive in the scenario)							

Biodiversity Counter:

Animal	Requirement	Initial scenario	Scenario 1	Scenario 2	Scenario 3
Wolf	Six areas of 5 or more connected squares of woods or fields				
Trout	5 squares of water				
Raccoon	5 squares of any land space (undeveloped or 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 space				
Deer	one area of more than 5 connected forest 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				
Snake	5 connected squares of field or 2 squares of protected field				_
Turtle	5 connected squares of wetland or 1 square of protected wetland				

	Initial scenario	Scenario 1	Scenario 2	Scenario 3
Number of unique species:				
Total number of animals:				