

Watershed Inventory



Date _____ Name _____ Group _____

Watershed Name _____ Watershed Code _____

Begins in _____ Flows Through _____

Ends in _____ (name city, township, counties, regions, etc.)

Drains into _____ (name body of water)

Square Kilometres _____ Approx. Length _____ Width _____

**Driving/Hiking
Directions** _____

CLIMATE

Average yearly precipitation: < 20 cm 20-40 cm 40-100 cm > 100 cm

Most of the precipitation is in the form of: rain snow

Most precipitation occurs in (month(s)) _____

Floods most commonly occur in (month(s)) _____

Droughts most commonly occur in (month(s), year(s)) _____

Coldest month of year _____ Warmest month of year _____ Yearly temp. range _____

GEOLOGY / TOPOGRAPHY

Describe briefly the geologic history that shaped your watershed _____

(add separate sheets as necessary)

Describe the physical characteristics of different reaches of your watershed:

	Upper reaches	Middle reaches	Lower reaches
Uplands (rock, hills, or flat)	_____	_____	_____

Data Sheet 1: Watershed Inventory

Valley (broad, medium, narrow) _____

Gradient (steep, medium, gentle) _____

Channel (straight, meandering) _____

Bottom (boulder, cobble, gravel, fines) _____

Predominant rock types: Limestone Shale Canadian Shield

Specific soil types present _____

Highest point _____ Lowest point _____
(include elevation and location)

WATER RESOURCES

Headwaters originate from: surface run-off wetlands lakes groundwater

Length of your stream _____

Names of tributaries _____

Order of your stream at the outlet point of your watershed _____

Names of lakes _____

Number of wetlands few (1-15) many (15-25) abundant (>25)

Areas underlain by aquifers (if any) _____

SOILS

Predominate soil types _____

Areas with soil suitable for farming _____

Areas with soil unsuitable for development _____

Areas with potential soil erosion problems _____

VEGETATION

List the native and introduced plant species that dominate the different plant communities of your watershed:

	Native	Introduced
Upland forest	_____	_____

Data Sheet 1: Watershed Inventory

Riparian _____

Grassland _____

Wetlands _____

Other plant communities _____

Percent of your watershed now covered by forest _____%

Reasons for the loss of forest _____

Time period over which the loss occurred _____

Endangered or threatened plant species _____

FISH (Attach extra pages as needed)

Native species (circle if endangered or threatened) _____

Non-native species _____

Locations of fish hatcheries and species produced _____

Types and locations of barriers to fish migration _____

WILDLIFE (Attach extra pages as needed)

Native species (circle if endangered or threatened) _____

Non-native species _____

Key wildlife habitat areas _____

HISTORICAL (Attach extra pages as needed)

The earliest human inhabitants were _____

Describe briefly the settlement of your watershed _____

Cultural and historical resources in your watershed _____

Data Sheet 1: Watershed Inventory

DEMOGRAPHICS

Current watershed population_____ Projected population in 10 years_____ 20 years_____

Watershed population 10 years ago_____ 50 years ago_____ 100 years ago_____

Areas where most of the people live_____

List towns, cities, & counties and the percent of watershed land area that each encompasses

(attach a list of elected officials for each jurisdiction)

What makes people want to live (or not) in your watershed?_____

LAND & WATER USES

Estimate the % of your watershed zoned for each land use and check the activities that apply

rural residential_____% densities (# of houses per hectare)_____

urban/suburban residential_____% densities_____

commercial_____% light commercial heavy commercial

industrial_____% light industry heavy industry

agricultural_____% grazing confined animal dry crops
irrigated crops nursery

forestry_____% clear-cut selective cut roads tree farm

mining_____% type of mining:_____

parks/open space_____% swimming boating fishing other _____

other recreation_____% ski resort golf course other _____

Percent of watershed that is public land_____% private land_____%

Percent of watershed covered with impervious surfaces_____%

Sources of domestic water supply for watershed residents_____

Location of sewage treatment plants (if any) servicing watershed residents_____

Areas that rely on septic tanks_____

Data Sheet 1: Watershed Inventory

Altered hydrology (dams, diversions, detention systems, culverts, dikes, drained wetlands, etc)

type of alteration	location	purpose
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(add lists as necessary)

WATER QUALITY / QUANTITY CONCERNS

Water quality classification(s) of your stream and tributaries _____
(attach standards and regulations protecting watershed resources, include enforcing agencies)

List pollutants of concern and their potential sources (include locations if possible)

pollutant	point source	non-point source
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

AREAS PRONE TO FLOODING/DRYING UP (Add extra pages if necessary)

Location	Circle One	Dates
_____	Dry Flood	_____
_____	Dry Flood	_____
_____	Dry Flood	_____

SUMMARY OF WATERSHED ISSUES (Attach extra pages as needed)

