

Color Me a Watershed

1. Choose a color to represent each land use area and note the color on each map key.
2. Lightly color each land use area on each map using the colors your team chose above.

Once coloring is complete:

1. Assume an unusual storm dropped 5 cm (0.05 m) of rain evenly across the entire watershed shown on the map. Use the data from the 'Area of Land Coverage' table to calculate the amount of water in cubic meters (m^3) that fell on each watershed land use area in each time period. Record in the chart below.
2. Each land use sheds water at a different rate. Use the hypothetical estimates of runoff to calculate the amount of water in cubic meters (m^3) that will runoff into the stream. Record in the chart below.

Chart for Option 3: Volume of Rain and Volume of Runoff

Land coverage and % runoff	Map A 100 years ago		Map B 50 years ago		Map C Present	
	volume m^3	runoff m^3	volume m^3	runoff m^3	volume m^3	runoff m^3
Forest 20% runoff						
Grasslands 10% runoff						
Wetlands 5% runoff						
Residential 90% runoff						
Agricultural 30% runoff						
Total runoff						
Total runoff plus stream discharge (5,550,000 m^3)						

= Please complete question on the other side =

