



# Bridging the Watershed

## Don't Get Sedimental Datasheet

Date:

Park:

Study Site:

Park Rangers & Educators (one per row)

Group Members: (one per row)


Latitude: North ° ' "

Longitude: West ° ' "

Why is it important to know the latitude and longitude?

	Yesterday		Today
Air Temperature	<input type="text"/> °C		<input type="text"/> °C
Cloud Cover	<input type="checkbox"/> Clear <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy		<input type="checkbox"/> Clear <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy
Precipitation	<input type="checkbox"/> None <input type="checkbox"/> Rain <input type="checkbox"/> Other		<input type="checkbox"/> None <input type="checkbox"/> Rain <input type="checkbox"/> Other

How could weather affect today's field study?

Water Color       Water Odor       Water Temperature  °C

Stream Speed:

Trial 1  Seconds

Trial 2  Seconds

Trial 3  Seconds

Average  Seconds (Add all 3 Trials and divide by 3)

Use the average time from above in the calculation below to determine average stream speed

10m /  [average time] =  meters/second

Because we test speed only at the surface of the stream, we use a 'fudge factor' of 0.8 to adjust for an overall stream speed. Use the average speed from above to find the overall stream speed:

Average Speed x 0.8 (fudge factor) =  meters/second

Sketch the study site, showing all details that affect your field study:



Soil Permeability: Seconds

Turbidity: JTU's

**Characteristics for Stream Habitat Assessment**

	Excellent	Good	Fair	Poor	Site Score
	Score: 4	Score: 3	Score: 2	Score: 1	
Verge Vegetation	vegetation present, canopy intact	vegetation and canopy nearly intact	vegetation disturbed	cleared land or urban development	
Bank Vegetation	vegetation in undisturbed state	vegetation slightly disturbed	vegetation moderately disturbed	vegetation severely disturbed	
% Bare Soil on Bank	0 - 10%	11 - 40%	41 - 80%	81 - 100%	
Bank Erosion	stable, no sign of erosion	very occasional local erosion	some erosion evident	severe bank failure; extensive cracking and fall-ins	
Bank Slumping and Movement	no movement	slight movement on bank	moderate bank collapses	severe bank failure; extensive cracking and fall-ins	
Bends and Riffles	Bends present; 5 - 10 riffles in 10 m; some snags	Bends present; 1 - 4 riffles in 10 m	occasional bend; 1 - 2 riffles in 50m; few snags	straight channel; riffles/pools absent; no snags	
Turbidity (JTUs)	0 - 10	11 - 40	41 - 150	> 150	
Aquatic Vegetation	little vegetation - uncluttered look; fairly small numbers of many different kinds of plants	moderate amounts of vegetation	cluttered, weedy conditions; vegetation sometimes luxurious and green; seasonal algal blooms	choked, weedy conditions; heavy algal blooms or no vegetation at all	
Sediment Deposition	less than 20% of stream bottom affected by extensive sediment deposition; minor accumulation of fine and coarse material at snags; little or no enlargement of islands or point bars	20 - 50% of stream bottom affected by extensive sediment deposition; moderate accumulation; substantial sediment movement during major storms; some new increase in bar formation	50 - 80% of stream bottom affected by extensive sediment deposition; pools shallow, heavily silted; embankments may be present on both banks; frequent and substantial sediment movements during storm events	> 80% of stream bottom affected by extensive sediment deposition; heavy deposits; mud, silt and/or sand in pools; pools almost absent due to deposition	

Total Score		
Habitat Rating		

Stream Habitat Rating		
32-36	Excellent	natural or virtually natural state
23-31	Good	some alteration from natural state
14-22	Fair	significant alteration from natural state
0-13	Poor	very degraded habitat