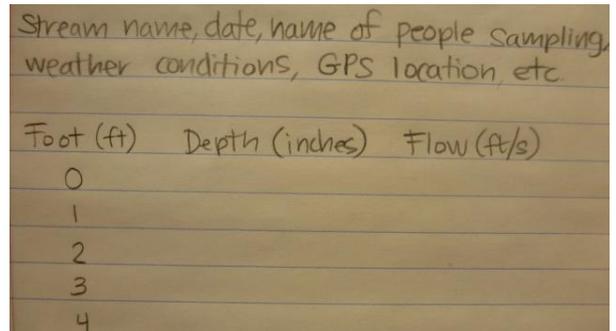


## Flow meter

1. Select a location on the stream where sampling will take place. Choose a relatively straight, flat area which is generally free of large obstructions. Always remember, safety first and wear a lifejacket if necessary.
2. Record key information (stream name, date, names of people sampling, weather conditions, GPS location, etc) in a notebook with a pencil.
3. Begin a data collection table with the following information: foot (feet), depth (inches), and flow (ft/s).



Stream name, date, name of people sampling,  
weather conditions, GPS location, etc

Foot (ft)	Depth (inches)	Flow (ft/s)
0		
1		
2		
3		
4		



4. String a measuring tape across the width of the stream, perpendicular to the flow. A tent stake works well to anchor the start of the tape.
5. Data for depth and flow will be collected at each foot marked off on the measuring tape. Start taking measurements beginning right at the shoreline.
6. Always stand downstream of the measuring tape when collecting data.
7. Assemble the flow meter by placing the black propeller on the end of the telescoping rod. Make sure that all connections are tight. Turn on the flow meter by holding the button in the upper left.

8. Beginning at the shoreline, use a meter stick to measure the depth of the stream at the first foot increment along the measuring tape. Record the depth on the first row of your data sheet (foot = 0).
9. At the first foot increment along the measuring tape, insert the propeller of the flow meter into the stream approximately two-thirds of the way up from the bottom of the stream. The propeller should face upstream.





10. The first reading is the flow in feet per second. Once the reading stabilizes, record the flow on the first row of your data sheet (foot = o).
11. Continue collecting and recording depth and flow at each foot increment along the stream.
12. Once the data is collected, turn the meter off by holding the button in the upper left and disassemble the flow meter.
13. Return rinsed (tap water) and air dried equipment to the Land and Water Resources Department, Polk County Government Center, 100 Polk County Plaza, Ste 120, Balsam Lake, WI, 54810 Monday-Friday from 8am-4:30pm. Questions: call 715-485-8699.
14. A demonstration video can be found online at: <http://www.co.polk.wi.us/>, Departments, Land and Water Resources, Equipment Polices and Use.

