DATA SHEET 5 FLOW - METHOD I (PAGE 1 OF 3)
(for streams greater than 3 feet wide)

Name_____ Group_____ Date_____ Time_____

Stream Name_____ Reach Name/#_____ Site Name_____

Site Location: Latitude___°___'___"N   River mile:_____
                Longitude___°___'___"W   Transect #:_____
Driving/Hiking directions:_____

Site Description: (e.g. transect #, landmarks, etc.)_____

Weather Conditions: ☐ Clear ☐ Cloudy ☐ Rain ☐ Other _____
             Air Temperature: _____°___ (F or C)
Amount of precipitation in last storm_____ Time elapsed since last storm_____
Other recent weather information_____

Velocity Float Trials:

Trial #	Time	Distance
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
Total		

[ ] / [ ] = [ ]
total time/# of trials   avg. time

Cross Sectional Area:
Record depths at one-foot intervals Depth = D

Cross Section 1				Cross Section 2				Cross Section 3			
#	D	#	D	#	D	#	D	#	D	#	D
1		11		1		11		1		11	
2		12		2		12		2		12	
3		13		3		13		3		13	
4		14		4		14		4		14	
5		15		5		15		5		15	
6		16		6		16		6		16	
7		17		7		17		7		17	
8		18		8		18		8		18	
9		19		9		19		9		19	
10		20		10		20		10		20	

([ ] + [ ] + [ ]) / 3 =
  sum   sum   sum

Average Cross
Sectional Area = [ ] ft²

(Multiply sums by 2 if depths were measured in 2 ft.intervals)

Average
Surface = [ ] / [ ] = [ ] feet/sec. X (0.8) = Corrected = [ ]
Velocity distance/avg. time   velocity correction Velocity
                                          factor

Average
Corrected

Flow = [ ] ft./sec. X [ ] ft.² = [ ] CFS
   Avg. Corrected   Avg.Cross   (cubic feet/second)
   Velocity   Sectional Area

DATA SHEET 5 FLOW - METHOD II (PAGE 2 OF 3)
(for streams up to three feet wide)

Name_____ Group_____ Date_____ Time_____

Stream Name_____ Reach Name/#_____ Site Name_____

Site Location: Latitude___°___'___" N   River mile:_____
                Longitude___°___'___" W   Transect #:_____

Site Description: (e.g. transect #, landmarks, etc.)_____
Driving/Hiking Directions_____

Weather Conditions: ☐ Clear ☐ Cloudy ☐ Rain ☐ Other _____
                Air Temperature: _____°___ (C or F)
Amount of precipitation in last storm_____ Time elapsed since last storm_____
Other recent weather information_____

Velocity Float Trials:

trial #	time	Distance
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

[ ] / [ ] = [ ]
sum/# of trials   avg time

Average Surface Velocity = [/] = _____
distance/avg. time   feet/sec.

Average Corrected Velocity = _____ X (0.8) = [ ]
feet/sec   velocity correction factor   feet/sec

Use Average Corrected Velocity to calculate Flow, using formula on page 3 bottom of following page.

DATA SHEET 5 FLOW - METHOD II (CONTINUED)   (PAGE 3 OF 3)

Cross Sectional Area

Use Average Cross Sectional Area to calculate Flow, using formula on bottom of this page.

Cross Section 1

1	
2	
3	

avg. depth = [   ] / 3 = [   ] feet
                sum   feet

$Area_1$ = [   ] x [   ] = [   ] ft²
         avg. depth   width

Cross Section 2

1	
2	
3	

avg. depth = [   ] / 3 = [   ] feet
                sum   feet

$Area_2$ = [   ] x [   ] = [   ] ft²
         avg. depth   width

Cross Section 3

1	
2	
3	

avg. depth = [   ] / 3 = [   ] feet
                sum   feet

$Area_3$ = [   ] x [   ] = [   ] ft²
         avg. depth   width

Average Cross Sectional Area =

[   ] $Area_1$

+

[   ] $Area_2$

+

[   ] $Area_3$ **/3**

= [   ] **feet²**

Flow = [   ] X [   ] = [   ]
       Avg. Corrected   Avg. Cross   **CFS**
       Velocity   Sectional Area   (cubic feet/second)