

Name _____ Date _____ Time _____

Stream Sampled _____ Location _____
(County, Road, Site # if known, Township, Range, Section)

1. SITE LOCATION

Length Assessed: ft.

2. STREAM WIDTH & DEPTH

Stream Width: ft.
If stream \leq 20 ft. wide, measure depth every foot across the width. If stream is $>$ 20 ft. wide, measure depth at 20 equal intervals across the entire width.

| Interval | Depth (ft./in.) | Depth (10^{-6} -ft.) | Interval | Depth (ft./in.) | Depth (10^{-6} -ft.) |
|----------|-----------------|-------------------------|------------------|-----------------|-------------------------|
| 1 | 0 | 0 | 11 | | |
| 2 | | | 12 | | |
| 3 | | | 13 | | |
| 4 | | | 14 | | |
| 5 | | | 15 | | |
| 6 | | | 16 | | |
| 7 | | | 17 | | |
| 8 | | | 18 | | |
| 9 | | | 19 | | |
| 10 | | | 20 | | |
| sum | | | ← Add together → | | ft. |

sum of depths ft. \div # of intervals = ft. Average Depth

Total Sum of depths: ft.

Compute Ave. Cross-Sectional Area:
 ft. average depth \times ft. width = ft.² Cross-Sectional Area

3. VELOCITY MEASUREMENT

| Float Trials | Time (seconds) |
|--------------|----------------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| sum | |

ft. length assessed \div sec. ave. float time = ft./sec. Ave. Surface Velocity

Average Float Time sec.

4. CALCULATING STREAM FLOW

Correction value for rough, loose, coarse, weedy bottom: 0.8
 Correction value for smooth bottom: 0.9

correction value \times ft./sec. ave. surface velocity = ft./sec. Corrected Surface Velocity

ft.² cross-sectional area \times ft./sec. corrected surface velocity = cubic feet per sec. (round to the nearest tenth)

STREAM FLOW:

Depth Conversion Chart

| Depth Conversion Chart | | | |
|------------------------|----------------------|---------|----------------------|
| Ft/in | 10 ^{ths} Ft | Ft/in | 10 ^{ths} Ft |
| ¾-¾ | 0.05 | 6¾-6¾ | 0.55 |
| 1-1½ | 0.1 | 7-7¾ | 0.6 |
| 1½-2 | 0.15 | 7½-8 | 0.65 |
| 2½-2¾ | 0.2 | 8½-8¾ | 0.7 |
| 2¾-3¼ | 0.25 | 8¾-9¼ | 0.75 |
| 3¾-3¾ | 0.3 | 9¾-9¾ | 0.8 |
| 4-4¾ | 0.35 | 10-10¾ | 0.85 |
| 4½-5 | 0.4 | 10½-11 | 0.9 |
| 5¾-5¾ | 0.45 | 11¾-11¾ | 0.95 |
| 5¾-6¼ | 0.5 | 11¾-12 | 1.0 |