

Discharge Measurements Field Form

[This form can be used to prepare the Summary of Discharge Measurements form]

Station Identification Number: _____

Station Name: _____

Gazetted Stream Name: _____

Station Operation Agency/Firm and Contact Details: _____

Date (YYYYMMDD): _____

Metered by: _____

Air Temp (°C): _____ Water Temp (°C): _____

Weather (e.g., recent rain or current weather): _____

Channel condition or other condition affecting control or discharge measurements: (variable, backwater, turbulence, vegetation, etc.): _____

Location of Metering Section: _____

Water level gauge type (staff gauge only, automatic gauge, etc.) _____

Water level gauge reading/sensor accuracy:

- At least, 3 mm or 0.2% of effective stage
- At least, 5 mm or 0.2% of effective stage
- 1 cm or better
- Undefined

	Time (24hh:mm)	Ref. gauge reading (m)	Inside gauge reading (if any) (m)	Data logger reading (m)
Begin				
End				

Mean Standard Time, PST (24hh: mm): _____

Gauge correction (m): _____

Corrected gauge height/Stage (m): _____

Discharge measurement method code: _____ (From Appendix IV)

Meter calibration:

- Meter calibrated and the validity of calibration is confirmed
- Meter previously calibrated but validity of calibration is not confirmed
- Undefined

Date of calibration (YYYYMMDD): _____ (if known)

Meter field verification/comparison frequency:

- At least annually
- Less often than annually
- Undefined

Water surface Width (m): _____ No. Verticals Used: _____

X-sectional Area [when area velocity method is used] (m²): _____

Discharge, Q (m³/sec): _____

Average Velocity, V [when area-velocity used] (m/sec): _____

Remarks: _____

Discharge Measurements Field Form

(Discharge Computations for Mechanical Current Meters)

Current meter equations (mechanical current meters are used).

Where $V =$ Velocity (m/s) and $n =$ Revolution/sec

Select following equations:

(1) For Single Range Meters:

$$V = n \times \text{Slope} + \text{Intercept} \quad (\text{m/Sec})$$

$$V = n \times \boxed{} + \boxed{} \quad (\text{m/Sec})$$

(2) For Multiple Meters :

$$\frac{n}{(\text{Min})} \quad \frac{n}{(\text{Max})} \quad V = n \times \text{Slope} + \text{Intercept} \quad (\text{m/Sec})$$

$$\text{IF } \boxed{} <n< \boxed{} : V = n \times \boxed{} + \boxed{} \quad (\text{m/Sec})$$

$$\text{IF } \boxed{} <=n=< \boxed{} : V = n \times \boxed{} + \boxed{} \quad (\text{m/Sec})$$

$$\text{IF } \boxed{} <n> \boxed{} : V = n \times \boxed{} + \boxed{} \quad (\text{m/Sec})$$

Observation Method Description:

- 2= Two-point measurement. 0.2 and 0.8 depths are measured
- 3= Three-point measurement. 0.2, 0.6 and 0.8 depths are measured
- 6= Point six measurement. 0.6 depth is measured
- B= Water edge, used at start of all measurements and after any "S" method
- S= Temporary stop to execute portion of channel e.g., bridge pier
- T= Terminates measurement session i.e., absolute end.

Discharge Computation Table

OBSERVATION							COMPUTATION				
Method.	Dist. From Initial Point (m)	Depth (m)	Depth of obs. (m)	Revs. (no.)	Time (sec)	Cosine of flow angle	Velocity		Width (m)	X-sectional Area (m²)	Disch. (m³/sec)
							At Point (m/sec)	Mean in vert. (m/sec)			
1	2	3	4	5	6	7	8	9	10	11	12
Totals											