# SSHCZO Metadata Worksheet

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| Data File Name | **Q\_compiled\_GR.xlsx** |
| Date Prepared | 08/26/2016 |
| Descriptive Title | Garner Run Discharge and Rating Curve |
| Update Frequency | Annually |
| Abstract | Surface water discharge data for Garner Run stream (Sheet 1). Stage data was measured every 10 to15 min and a rating curve was built with manual measurements from a Parshall Flume. All data contributes to the goals of hypothesis six (H6), which focuses on concentration-discharge relationships spatially and temporally. Data spans from October 2014 to March 2016. |
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| Data Value Descriptions | * COL1: label=ValueAttribute, value=TIMESTAMP, UTCOffset=-4, TimeZone=EDT, format=YYYY-MM-DD hh:mm:ss.0000000 * Col2: label=baro(Barometric pressure), Units=kPa * Col3: label=air\_t(air Temperature), Units=degC * Col4: label=label=abs\_press(Abs Pressure in water), Units=kPa * Col5: label=w\_temp(water Temperature), Units=DegC * Col6: label=depth\_m(Corrected sensor depth), Units=meters(m) * Col7: label=stage\_cm(Sensor depth),Units=centimeters(cm) * Col8: label=stage\_diff(Stage difference, pressure values are measured in a pool ~20 m upstream of the pool. Values in this column are corrected based upon difference in elevation between the two heights (equivalent to 9.076 cm, as measured using a survey)),Units=centimeters(cm) * Col9: label=discharge - 15 min discharge calculated from the rating curve data, Units=m3/s |
| Keywords | Hydrology, Stream discharge, rating curve |
| Methods | Discharge measurements were collected using a 9 inch flume monthly to bi-weekly and used to build a rating curve.  Stage was measured every 15 min in a pool ~20 m upstream of the flume using a HOBO pressure transducer. Surveys were conducted to compute elevation difference between Parshall Flume and HOBO pressure transducer. Discharge was calculated for each elevation compensated stage measurement based upon the rating curve. |
| Sites | |  |  |  | | --- | --- | --- | | Shaver's Creek/Garner Run | 2014 - present | N 40° 41' 32.892" W 77° 55' 41.052 | |
| Citation | The following acknowledgment should accompany any publication or citation of these data: Logistical support and/or data were provided by the NSF-supported Shale Hills Susquehanna Critical Zone Observatory. |
| Publications | Unpublished, please embargo public access to this dataset. |
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