

Wisconsin DNR – Lake Level Monitoring
Staff Gage Calibration Data Sheet

Lake Information

Lake Name: CRYSTAL LAKE County: CANGLAWE
 Local Coordinator and Organization (if known): DAVE TLUSTY CANGLAWE COUNTY LAND RECORDS & REGULATIONS DEPT

Data Collectors

Primary Data Collector: MIKE WERDEO Email: mwerdeo@antigo.k12.wi.us Phone No.: (715) 350-1871
 Additional Data Collector(s): _____

Reference Mark Information

Reference Mark #1 (RM1)
 Latitude: 45°22.549' Longitude: 88°55.789' Mean Sea Level Yes No Elevation: _____ Photograph
 Location Description: 1" x 36" IRON PIPE DRIVEN FLUSH, 4' WSW OF 4" MAPLE PIPE IS 10' SOUTH OF CENTER OF BOAT LANDING RD & ABOUT 10' FROM LAKE

Reference Mark #2 (RM2)
 Latitude: 45°22.545' Longitude: 88°55.795' Mean Sea Level Yes No Elevation: _____ Photograph
 Location Description: 40d SPIKE LOW IN EAST FACE OF SIGN POST (NORTH POST OF TWO) ON SOUTH SIDE OF BOAT LANDING ROAD - SIGN IS 25' FROM LAKE

Reference Mark #3 (RM3)
 Latitude: 45°27.547' Longitude: 88°55.784' Mean Sea Level Yes No Elevation: _____ Photograph
 Location Description: 40d SPIKE LOW IN NORTH FACE OF EASTMOST 10" SPRUCE TREE APPROX. 20' SOUTH OF BOAT LANDING. ABOUT 18' FROM LAKE & 6' BEHIND STONE RETAINING WALL

Initial Calibration*

Date: 8/14/2015 Time: 10:15 AM PM Check one: Install Midseason Removal
 Survey Equations: $HI = \text{Assigned Elevation} + BS$ $\text{Calculated Elevation} = HI - FS$

Reference Mark	Assigned Elevation (ft)	Backsite (BS)	Height (ft) of Instrument (HI)	Foresite (FS)	Calculated Elevation (ft)
RM1	100.00	3.27	103.27		
RM2				2.10	101.17
RM3				2.23	101.04
Staff Gage				6.16	97.11
RM1		3.26			100.01

Secondary Calibration

Date: 8/14/2015 Time: 10:20 AM PM Check one: Install Midseason Removal
 Survey Equations: $HI = BS + \text{Assigned Elevation}$ $\text{Calculated Elevation} = HI - FS$

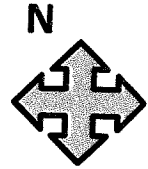
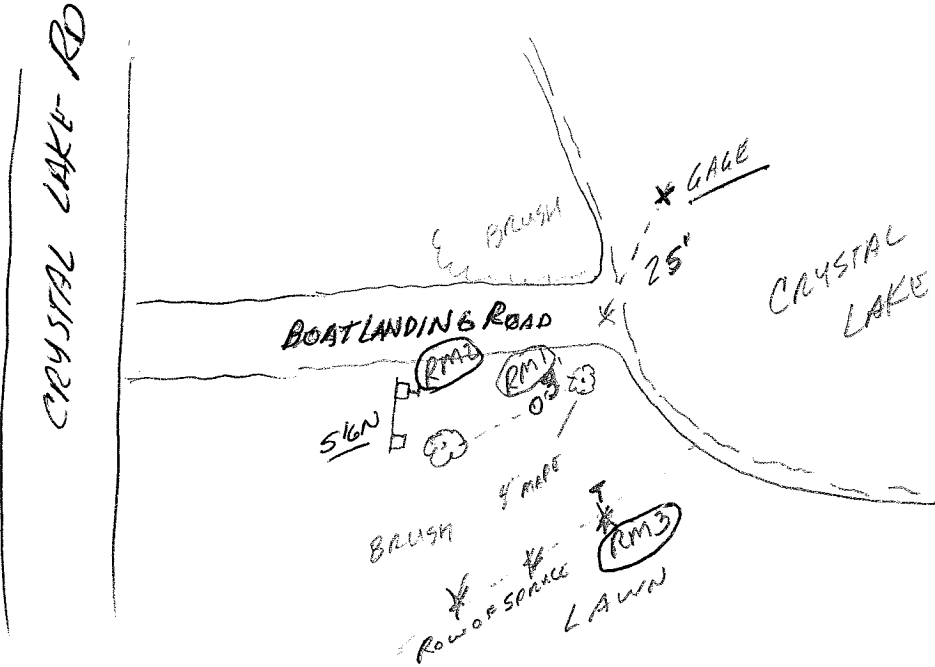
Reference Mark	Assigned Elevation (ft)	Backsight (BS)	Height of Instrument (HI)	Foresight (FS)	Calculated Elevation (ft)
RM1	100.00	3.37	103.37		
RM2				2.21	101.16
RM3				2.34	101.03
Staff Gage				6.27	97.10
RM1		3.37			100.00

*Accept the initial calibration - use value for the remainder of the season to compare observations from subsequent calibrations (unless the gage moves).
 **Shaded boxes do not need to be filled in during the survey process

Lake Level Reading: 1.42 ft $97.10 + 1.42 = 98.52$ 8/14/15

Wisconsin DNR – Lake Level Monitoring
Staff Gage Calibration Data Sheet

Site Diagram including Staff Gage and Reference Marks



Notes

RM 1 = 1" x 36" IRON PIPE FLUSH 3 1/8' WSW OF 4" MAPLE ELEV 100.00

RM 2 = 40d SPIK IN EAST FACE OF NORTH SIGN POST

RM 3 40d SPIK LOW IN N FACE 10" SPRUCE 20' S OF BOAT LANDING

Data Management

Survey Data uploaded to SWIMS? Yes No Date: _____ Name: _____

Photographs uploaded to SWIMS? Yes No Date: _____ Name: _____

Data Sheet scan uploaded to SWIMS? Yes No Date: _____ Name: _____

Equipment Maintenance

Replace bolts/screws on staff gage? Yes No Date: _____ Name: _____

Replace gage plate on staff gage? Yes No Date: _____ Name: _____

Replace post or wooden board? Yes No Date: _____ Name: _____

Wisconsin DNR – Lake Level Monitoring Staff Gage Calibration Data Sheet

Lake Information

Lake Name CRYSTAL LAKE County LANGLADE
 Local Coordinator and Organization (if known) DAVE FLUSHY

Data Collectors

Primary Data Collector _____ Email _____ Phone No. _____
 Additional Data Collector(s) _____

Reference Mark Information

Reference Mark #1 (RM1)
 Latitude: _____ Longitude: _____ Mean Sea Level Yes No Elevation: _____ Photograph
 Location Description: _____

Reference Mark #2 (RM2)
 Latitude: _____ Longitude: _____ Mean Sea Level Yes No Elevation: _____ Photograph
 Location Description: _____

Reference Mark #3 (RM3)
 Latitude: _____ Longitude: _____ Mean Sea Level Yes No Elevation: _____ Photograph
 Location Description: _____

Initial Calibration*

Date: 11/11/15 Time: 10:35 AM PM Check one: Install Midseason Removal
 Survey Equations: $HI = \text{Assigned Elevation} + BS$ $\text{Calculated Elevation} = HI - FS$

Reference Mark	Assigned Elevation (ft)	+ Backsite (BS)	Height (ft) of Instrument (HI)	- Foresite (FS)	Calculated Elevation (ft)
RM1	100.00	3.57	103.57		
RM2				2.42	101.15
RM3				2.54	101.03
Staff Gage				6.48	97.09
RM1					

Secondary Calibration

Date: _____ Time: _____ AM/PM Check one: Install Midseason Removal
 Survey Equations: $HI = BS + \text{Assigned Elevation}$ $\text{Calculated Elevation} = HI - FS$

Reference Mark	Assigned Elevation (ft)	Backsight (BS)	Height of Instrument (HI)	Foresight (FS)	Calculated Elevation (ft)
RM1					
RM2					
RM3					
Staff Gage					
RM1					

*Accept the initial calibration - use value for the remainder of the season to compare observations from subsequent calibrations (unless the gage moves).
 **Shaded boxes do not need to be filled in during the survey process

Lake Level Reading: _____ ft