



GLOBE

Liquid Precipitation Data Sheets

Print the Liquid Precipitation Data Sheet :

- [Liquid Precipitation Data Sheet](#)

Or select an alternative option below:

- [Liquid Precipitation: New Site](#)
 - Use this the first time you visit a sampling site to record site definition data.
- [Liquid Precipitation: Multi-Day](#)
 - This data sheet has space to record multiple days of precipitation measurements.
- [Liquid Precipitation with field guide incorporated](#)
 - [Optional pH measurement with pH paper](#)
 - [Optional pH measurement with pH meter](#)
- [Liquid Precipitation: Simplified](#)
 - Use this data sheet when working with those new to GLOBE and collecting data.

GLOBE Liquid Precipitation Data Sheet

Name: _____ Site Name: _____

Date: _____ Time (local): _____

Liquid Precipitation Measurement

Days accumulated: _____

Rainfall is: Measurable Trace Missing

If measurable is selected:

Accumulation: _____ mm

If there is no water
in the rain gauge,
report 0.0 mm!

Optional Precipitation pH Measurement

Precipitation pH data entry is only allowed when the accumulation is 3.5 mm or greater.

pH measured with: pH paper pH meter

pH of rainwater: _____

Comments :

GLOBE Liquid Precipitation Data Sheet: New Site

Name: _____ Site Name: _____

Date: _____ Time (local): _____

New Site Definition

Latitude: _____ Longitude: _____

Elevation: _____ m Rain Gauge Height: _____ cm

Liquid Precipitation Measurement

Days accumulated: _____

Rainfall is: Measurable Trace Missing

If measurable is selected:

Accumulation: _____ mm

If there is no water
in the rain gauge,
report 0.0 mm!

Optional Precipitation pH Measurement

Precipitation pH data entry is only allowed when the accumulation is 3.5 mm or greater.

pH measured with: pH paper pH meter

pH of rainwater: _____

Comments :

GLOBE Liquid Precipitation Data Sheet and Field Guide

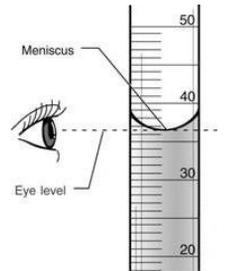
Name: _____ Site Name: _____

Date: _____ Time (local): _____

Days accumulated (number of days since the rain gauge was emptied): _____

Liquid Precipitation Measurement

1. With your eyes level with the water in the tube, read the level of the water in your rain gauge. Read the water level at the bottom of the meniscus.
2. Record the rainfall amount to the nearest tenth of a millimeter.
 - If there is no water, report 0.0 mm
 - If there is less than 0.5 mm, report "Trace"
 - If you spill any water before measuring, report "Missing"



Rainfall: _____ mm

3. If measuring pH, pour the water into a sampling jar and cover. If not, pour the water out.
4. Next, if there is water in the overflow tube:
 - a. Remove the measuring tube from the overflow tube.
 - b. Pour water from the overflow tube into the the measuring tube.
 - c. Record the amount of water in the measuring tube using the instructions above. Pour the water out or into the sampling jar for pH.
 - d. Repeat steps b and c until the overflow tube is empty.
 - e. Add your measurements to the amount recorded in step 2 and record the sum below:

Additional rainfall measurements:

Total Rainfall: _____ mm

GLOBE Liquid Precipitation Data Sheet and Field Guide: pH paper (*optional measurement*)

Precipitation pH Measurement: with pH paper

1. Put on protective gloves.
2. Pour a 50 mL of rain from your sample jar into a clean beaker.
3. Sprinkle salt onto the appropriate circle on the salt card below.
 - If your sample is 40-50 mL, fill the large 5 mm circle with a single layer of salt.
 - If your sample is 30-40 mL, fill the small 4 mm circle with a single layer of salt.
4. Pour the salt covering the circle on your salt card into the beaker.
5. Stir the beaker's contents thoroughly until the salt is dissolved.
6. Follow the instructions that came with the pH paper to measure the pH of the sample.
Record the pH value.

Sample 1 pH: _____

7. If you have at least 30 mL of rain left in your sample jar, then repeat steps 1-6 twice more. Otherwise, repeat step 6 twice more.

Sample 2 pH: _____

Sample 3 pH: _____

8. Calculate the average of the 3 pH measurements.

Average pH: _____

9. Check to make sure that each measurement is within 1.0 pH unit of the average. If they are not within 1.0 unit of the average, then repeat the measurements.
10. Discard used pH paper in a waste container and rinse the beakers and sample jar three times with distilled water.



GLOBE Liquid Precipitation Data Sheet and Field Guide: pH meter (*optional measurement*)

Precipitation pH Measurement: with pH meter

1. Put on protective gloves.
2. Calibrate your pH meter according to the manufacturer's instructions, using pH buffers provided.
3. Rinse the electrode with distilled water.
4. Pour 50 mL of rain from your sample jar into a clean beaker.
5. Sprinkle salt onto the appropriate circle on your salt card.
 - If your sample is 40-50 mL, fill the large 5 mm circle with a single layer of salt.
 - If your sample is 30-40 mL, fill the small 4 mm circle with a single layer of salt.
6. Pour the salt covering the circle on your salt card into the beaker.
7. Stir the beaker's contents thoroughly until the salt is dissolved.
8. Follow the instructions that came with the pH meter to measure the pH of the sample. Record the pH value.

Sample 1 pH: _____

9. If you have at least 30 mL of rain left in your sample jar, repeat steps 4-8 twice more. Otherwise, repeat step 8 twice more.

Sample 2 pH: _____

Sample 3 pH: _____

10. Calculate the average of the 3 pH measurements.

Average pH: _____

11. Check to make sure that each measurement is within 0.2 pH units of the average. If they are not within 0.2 units of the average, then repeat the measurements.

| | | |
|---|---|---|
| ● | Salt Card | ● |
| 4 mm circle – use with 30-40 mL water sample | <i>Fill circle with a single layer of table salt.</i> | 5 mm circle – use with 40-50 mL water sample |

GLOBE Liquid Precipitation Data Sheet: Simplified

Name: _____

Site Name: _____

Date: _____ Time (local): _____

Rainfall Measurement

How many days since the rain gauge was emptied? _____ days

Rainfall is:

- Measurable
- Trace (there is less than 0.5 mm of rainwater)
- Missing (if you spill any water before you measure, check this box)

If you checked **measurable**, record the rainfall:

Rainfall: _____ . _____ mm

Record the rainfall to the
tenth of a millimeter
(for example: 21.8 mm).

If there is no water,
record 0.0 mm!

Notes: