La Grange Reach



Data Collection User Guide

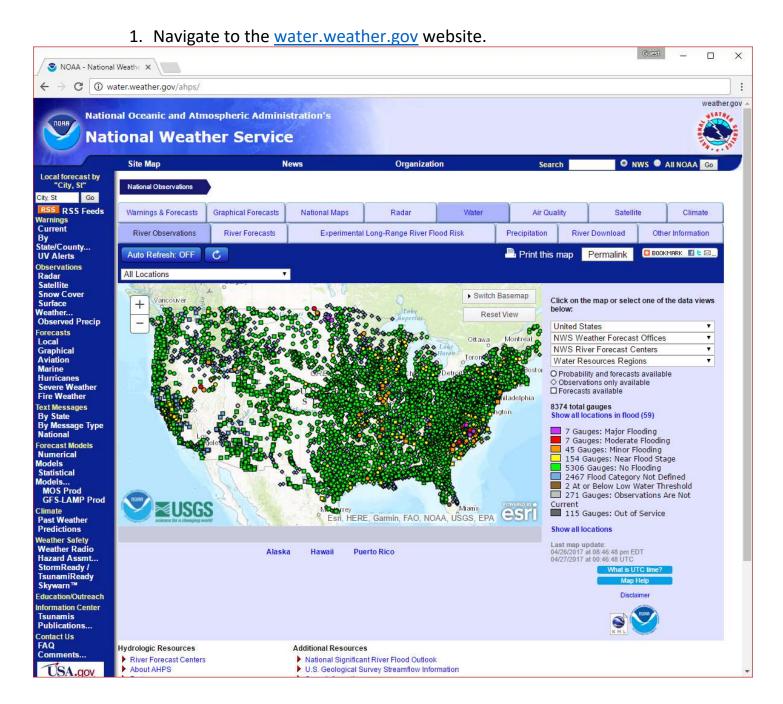
University of Missouri - St. Louis SP17- CMPSCI4500-001 Professor Keith Miller

Jason Klamert Charlotte Kawa

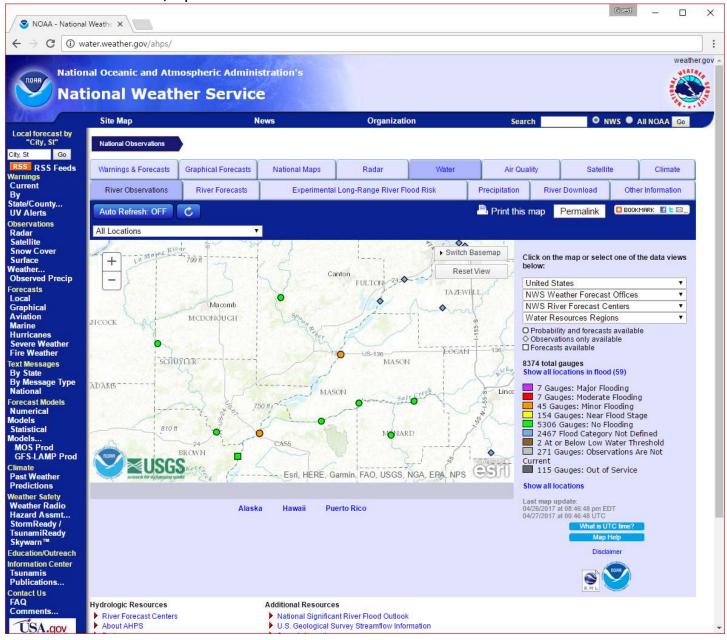
Marwa Alzori Tim Galvin Rebecca Dolph Tiffany O'Connell Paul Donnelly Harprabh Sangha

Gathering Your River Gauge Data

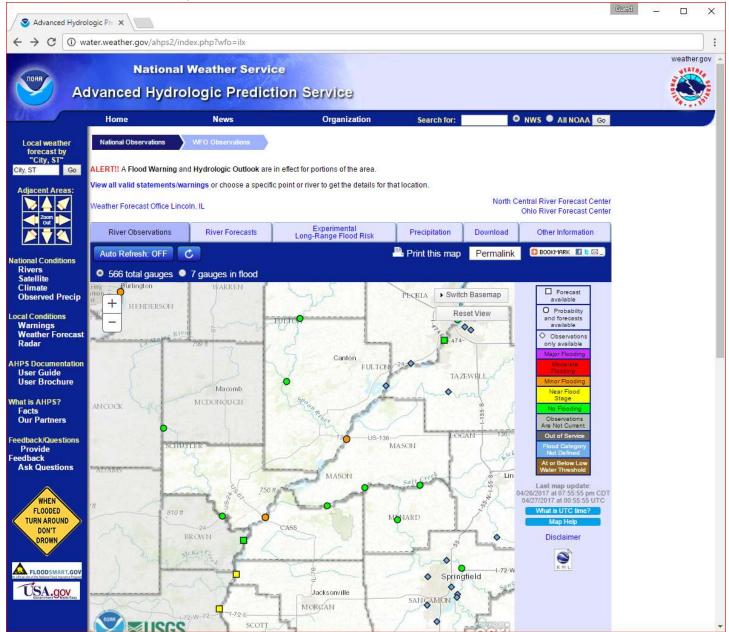
Before you can visualize your river data, you must collect it. This program has been designed to run with historical data obtained from the National Weather Service. These step by step instructions will show you how and where to get the data for your chosen river gauge.



2. Zoom in on the map in the area of your desired river gauge, then click on a dot/square in that area.



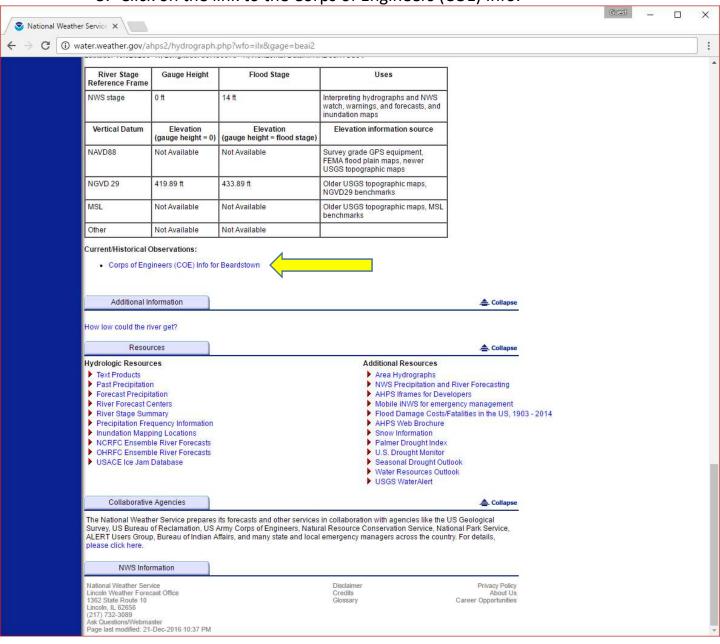
3. Feel free to zoom in on the newly loaded map. Click on the dot/square of the desired gauge. (If you start at one end of your data area, you will be able to click an upstream/downstream gauge button to easily switch stations).



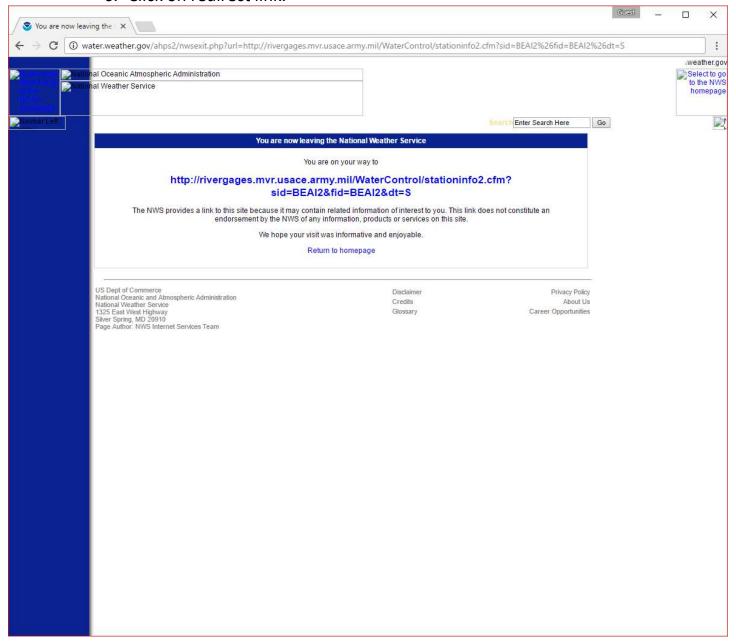
4. Scroll down to Current/Historical Observations.



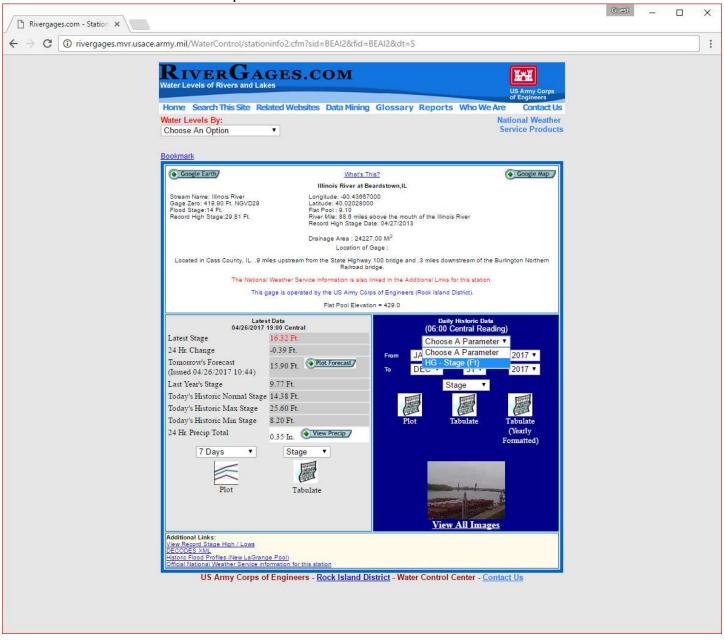
5. Click on the link to the Corps of Engineers (COE) Info.



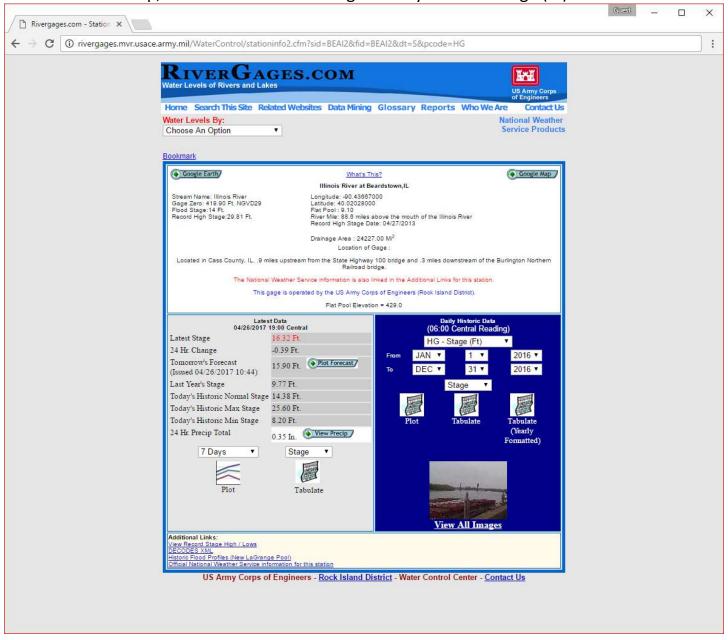
6. Click on redirect link.



7. In the blue box on bottom right, select HG - Stage (Ft) from the Choose a Parameter dropdown.

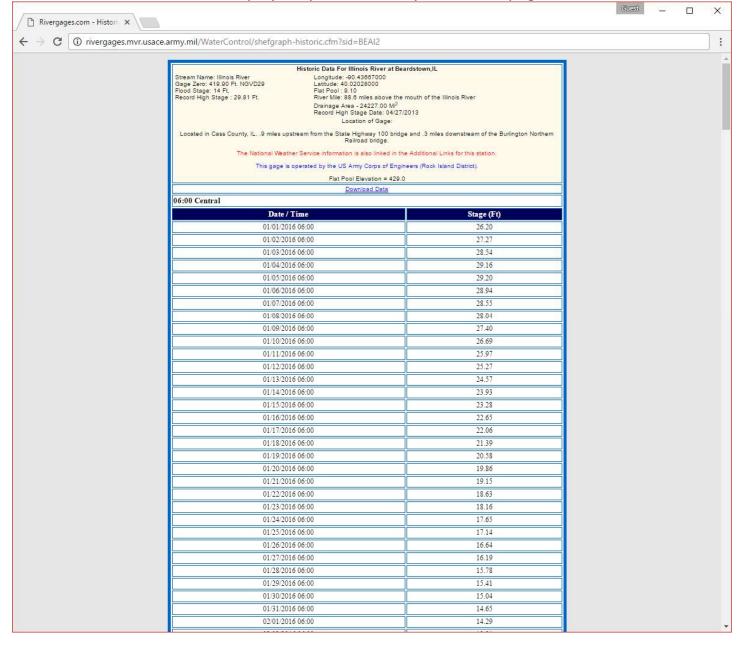


8. Select your desired date range. NOTE: If you forgot to do the previous step, it will reset the date range when you select Stage (Ft).



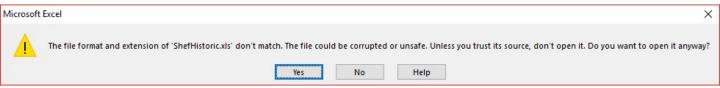
- 9. Make sure the last dropdown says Stage, NOT ELEVATION.
- 10. Click Tabluate. The next page may not load instantly, but you do not need to click the link again. DO NOT CLICK THE YEARLY FORMATTED VERSION.

11. Data will be displayed spreadsheet style on a webpage.

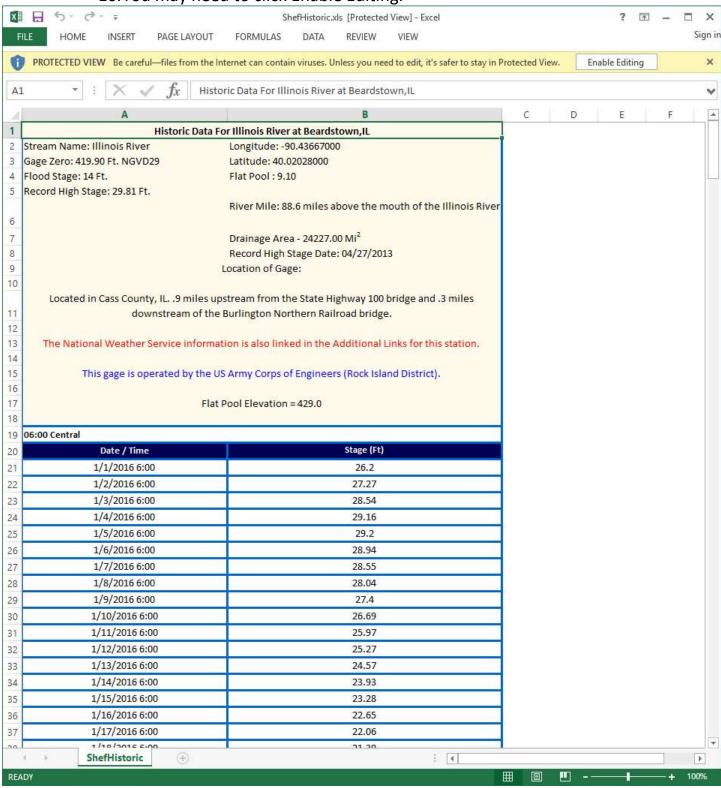


12. Find and click the Download Data link (below the cream colored box).

- 13. Start a new document in Notepad.
- 14. Open the downloaded spreadsheet. It will likely be named ShefHistoric.xls
- 15. You may get the error "The file format and extension of 'ShefHistoric.xls' don't match. etc.". Click Yes.



16. You may need to click Enable Editing.



17. Copy all the data and paste it into your new Notepad document.

```
Untitled - Notepad
                                                                                                               File Edit Format View Help
Historic Data For Illinois River at Beardstown, IL
Stream Name: Illinois River
                                Longitude: -90.43667000
Gage Zero: 419.90 Ft. NGVD29
                                Latitude: 40.02028000
                        Flat Pool: 9.10
Flood Stage: 14 Ft.
Record High Stage: 29.81 Ft.
        River Mile: 88.6 miles above the mouth of the Illinois River
        Drainage Area - 24227.00 Mi2
        Record High Stage Date: 04/27/2013
Location of Gage:
Located in Cass County, IL. .9 miles upstream from the State Highway 100 bridge and .3 miles downstream of the
Burlington Northern Railroad bridge.
The National Weather Service information is also linked in the Additional Links for this station.
This gage is operated by the US Army Corps of Engineers (Rock Island District).
Flat Pool Elevation = 429.0
06:00 Central
                Stage (Ft)
Date / Time
1/1/2016 6:00
                26.2
1/2/2016 6:00
                27.27
1/3/2016 6:00
                28.54
                29.16
1/4/2016 6:00
1/5/2016 6:00
                29.2
1/6/2016 6:00
                28.94
1/7/2016 6:00
                28.55
1/8/2016 6:00
                28.04
1/9/2016 6:00
                27.4
1/10/2016 6:00
                26.69
1/11/2016 6:00
                25.97
1/12/2016 6:00
                25.27
1/13/2016 6:00
1/14/2016 6:00
                23.93
1/15/2016 6:00 23.28
1/16/2016 6:00 22.65
1/17/2016 6:00 22.06
1/18/2016 6:00 21.39
1/19/2016 6:00 20.58
1/20/2016 6:00 19.86
```

18.Save the Notepad file as a .txt file. Once you have collected all your data, you will upload the .txt files through the visualization tool.

To download data for another river gauge, you may need to return to the beginning of this guide. If you started at one end of your data area, you can click the back button on your browser until you get to the page from Step 4. There you can click on the arrow next to Downstream Gauge or Upstream Gauge.

