

1.017/1.010 Class 2

Descriptive Statistics

Characterizing data

Histograms, percentiles, mean, median, variance, boxplots. etc.

Internal MATLAB functions

Inputs, outputs

Exercise: Download and characterize peak flow data

Download years 1901 - 1963 of annual peak flows for Miss. river @ St. Louis (USGS Gage 07010000)

Data at <http://waterdata.usgs.gov/nwis>

Use `textread` function (check syntax in on-line MATLAB documentation):

```
[peakflow] = textread ('peak.txt', '%*s %*f ... %*s %f  
%*f %*s %*s' , -1)
```

Plot histogram, sample CDF, compute mean, median, variance

Some relevant MATLAB functions: `textread`, `hist`, `cdfplot`, `mean`, `median`, `var`, `std`, `boxplot`



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