## Instructions:

1. Read/Scan the following articles on flood frequency:

<http://pubs.usgs.gov/gip/106/pdf/100-year-flood_041210web.pdf>

<http://pubs.usgs.gov/fs/FS-229-96/pdf/FS_229-96.pdf>

<http://water.usgs.gov/edu/100yearflood.html>

1. Go over presentation slides and provide answers to following questions:

* (Slide 4) What is the magnitude of flood that has a return period of 50-years?
* (Slide 4)What is the frequency of a flood of magnitude 45,000 cfs?
* (Slide 5) What is the precipitation depth for a 12-hr. duration storm that is exceeded on average once in 25 years (return period = 25 years)?
* (Slide 6) What is the intensity of precipitation of 12-hr. duration that has a 25-year return period?
* (Slide 9) How do the following levels of drought impact the urban water systems
  1. Meteorological Drought
  2. Agricultural Drought
  3. Hydrological Drought