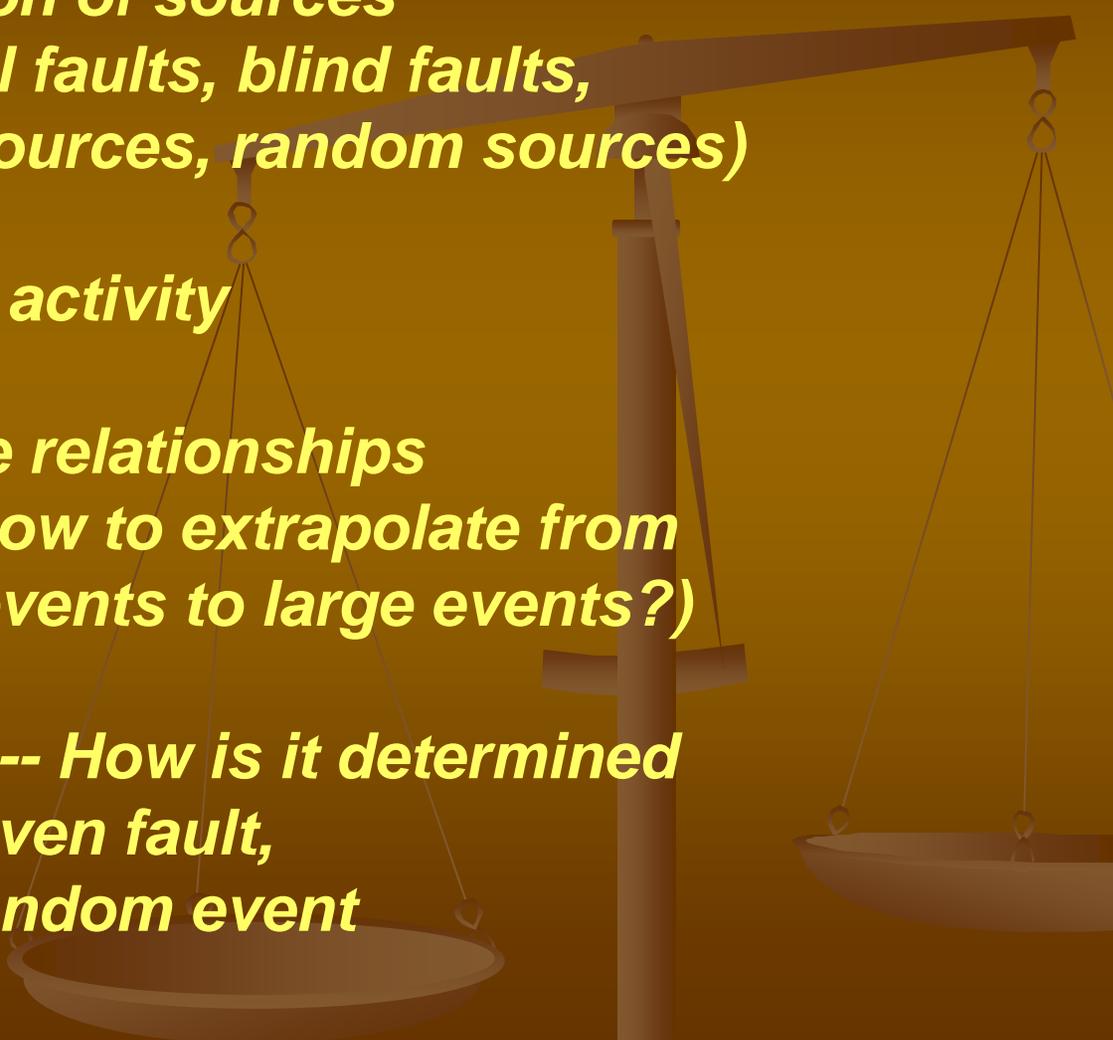


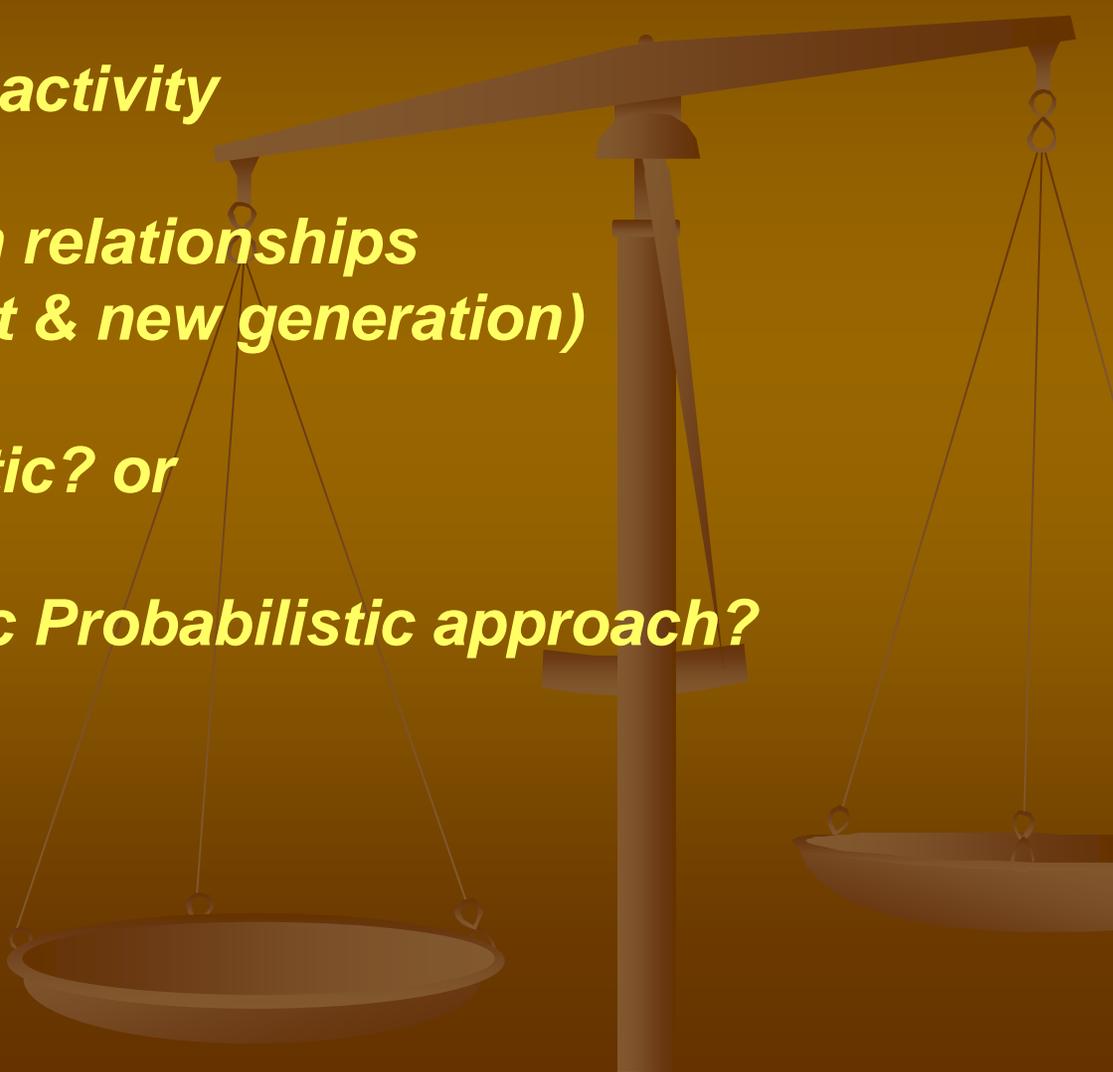
***ADDRESSING POTENTIAL  
SEISMIC EVENTS***



# **SOURCE ISSUES**

- **Identification of sources**  
(*crustal faults, blind faults, areal sources, random sources*)
  - **Degrees of activity**
  - **Recurrence relationships**  
(*e.g., How to extrapolate from small events to large events?*)
  - **Magnitude -- How is it determined for a given fault, for a random event**
- 

# Ground Motion Issues

- *Degrees of activity*
  - *Attenuation relationships  
(current & new generation)*
  - *Deterministic? or*
  - *Site-Specific Probabilistic approach?*
- 
- A stylized illustration of a balance scale, symbolizing the weighing of different approaches or issues. The scale is positioned on the right side of the slide, with its beam extending horizontally across the top. The left pan is lower than the right pan, indicating it is heavier. The background is a solid dark brown color.

# CRITERIA

## For deterministic approach

- *median or 84th-percentile values?*
  - *Degrees of activity*
  - *Attenuation relationships  
(current & new generation)*
- 

# ***CRITERIA***

***Deterministic***

***Always Do***

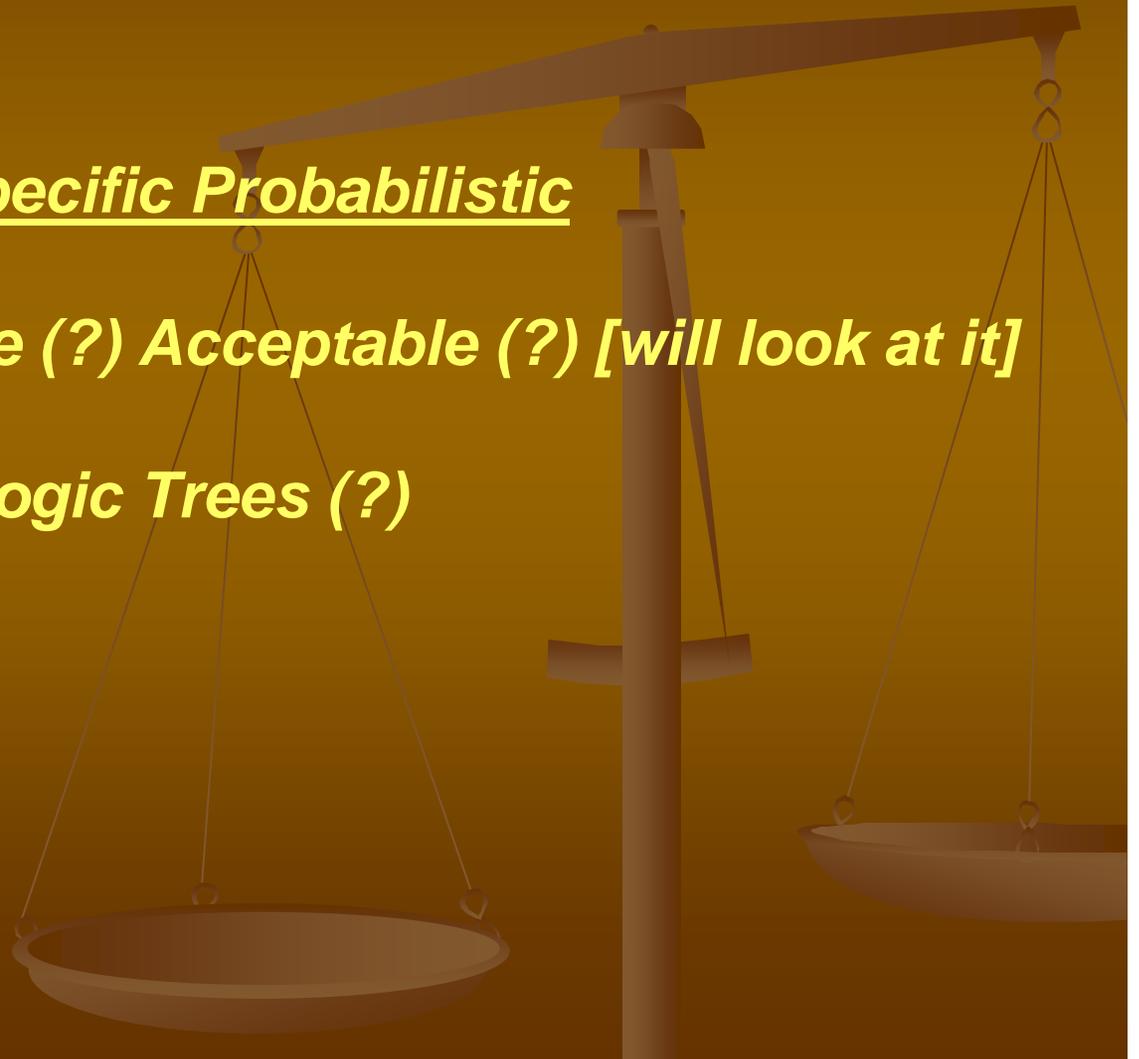


# **CRITERIA**

**Site-Specific Probabilistic**

**Required (?) Desirable (?) Acceptable (?) [will look at it]**

**Logic Trees (?)**

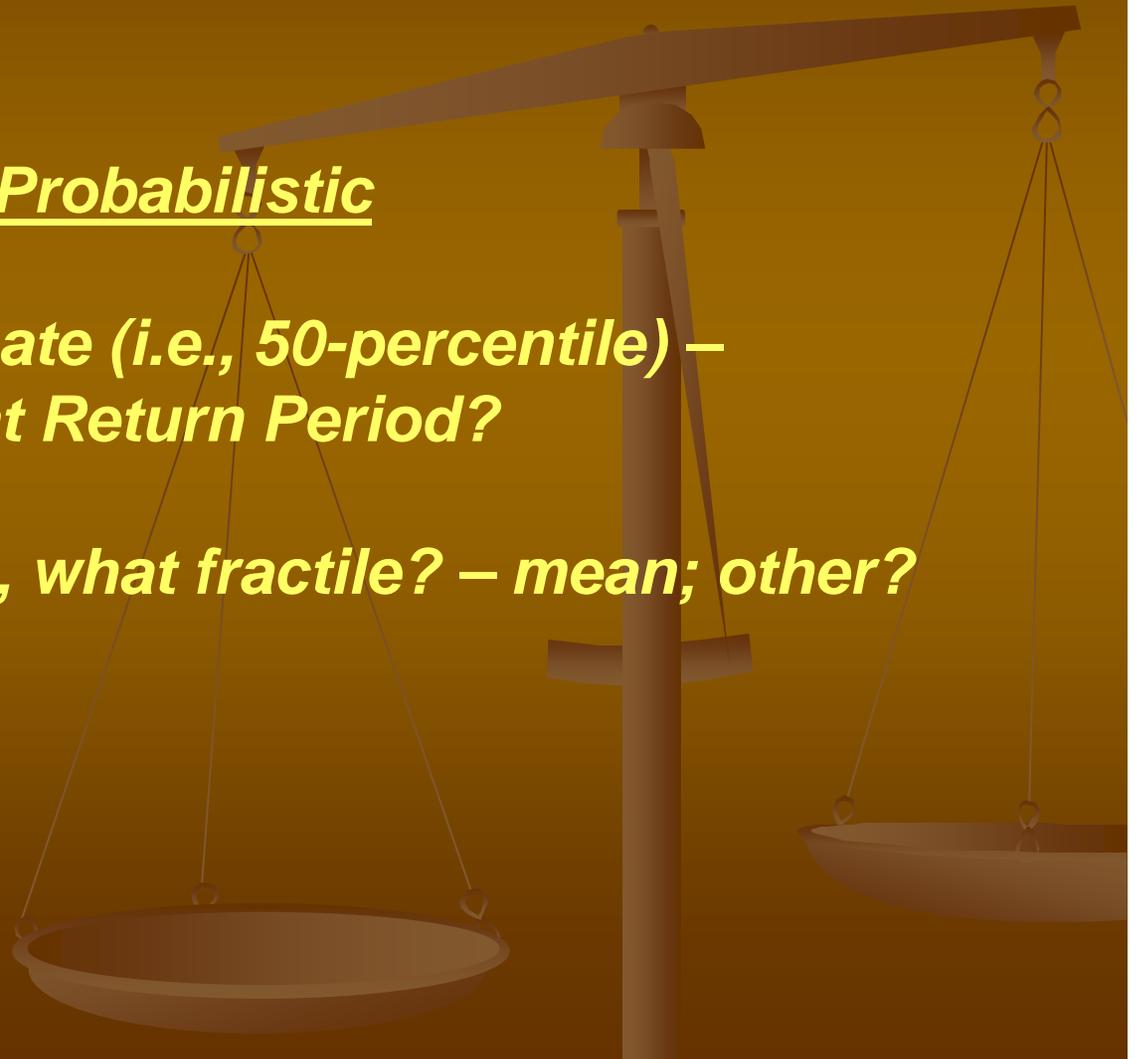


# ***CRITERIA***

## ***Probabilistic***

***If best estimate (i.e., 50-percentile) –  
What Return Period?***

***If Logic Tree used, what fractile? – mean; other?***



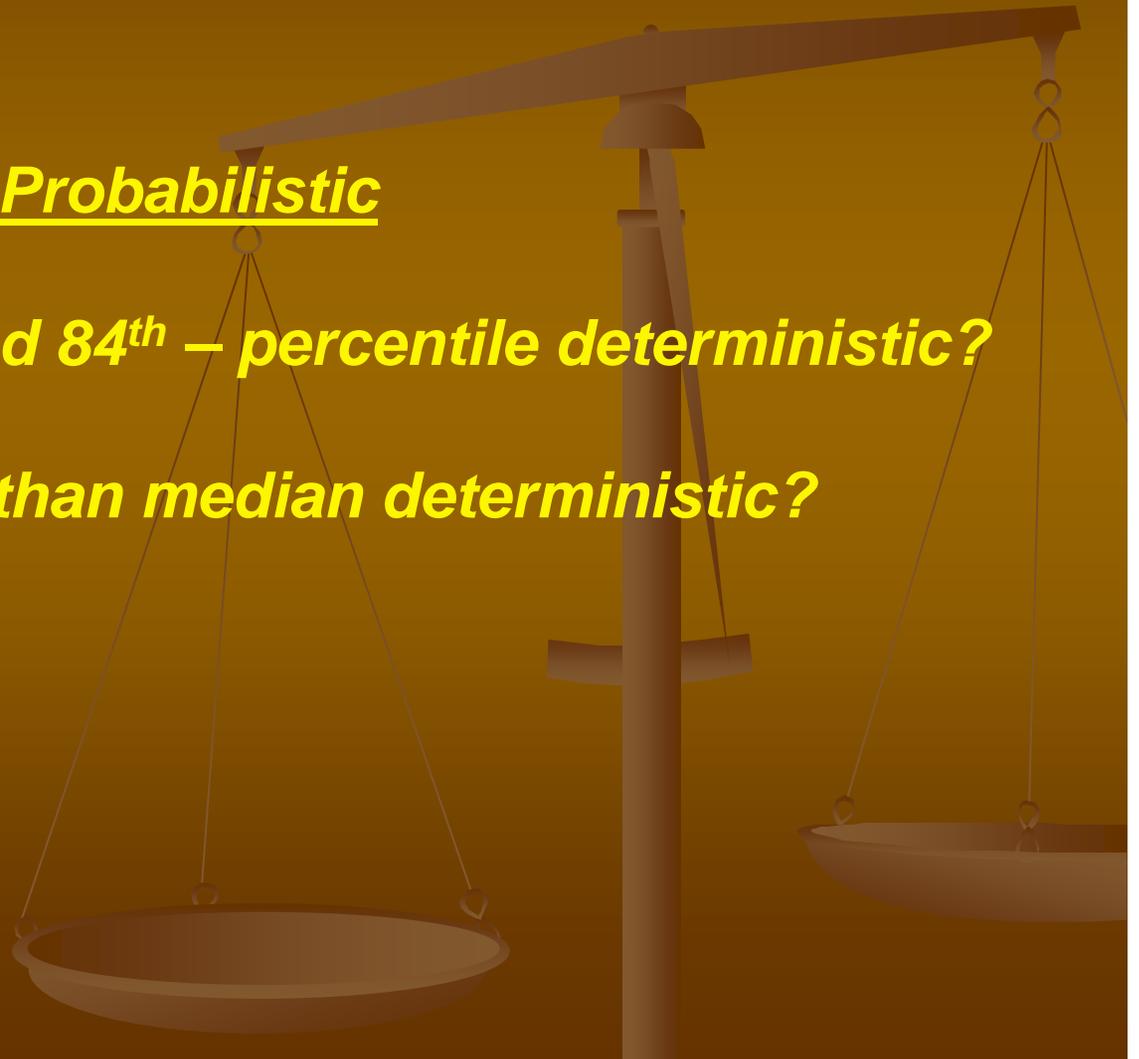
# ***CRITERIA***

---

## ***Probabilistic***

***Acceptable to exceed 84<sup>th</sup> – percentile deterministic?***

***Can it be less than median deterministic?***



# ***CRITERIA***

***USGS Hazard Values***

***Acceptable to use?***

***Sufficient to use?***

***Always Compare?? – what if  $>$  or  $<$  -- what to do?***

