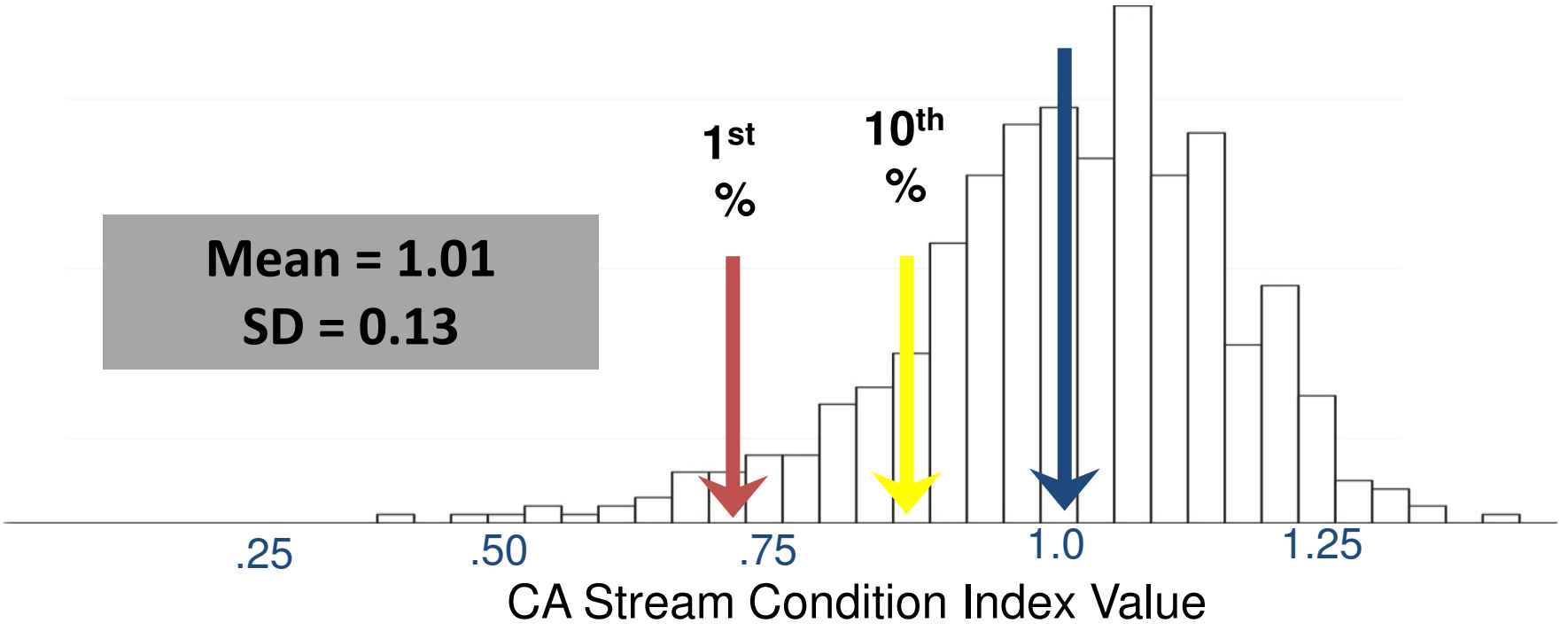
Desirable Qualities of Regulatory Thresholds

- **Objective**
- **Balance false positives and false negatives** – should be protective of resource, but not over-sensitive
- **Incorporate uncertainty of site score**

SWAMP
Surface Water Ambient Monitoring Program

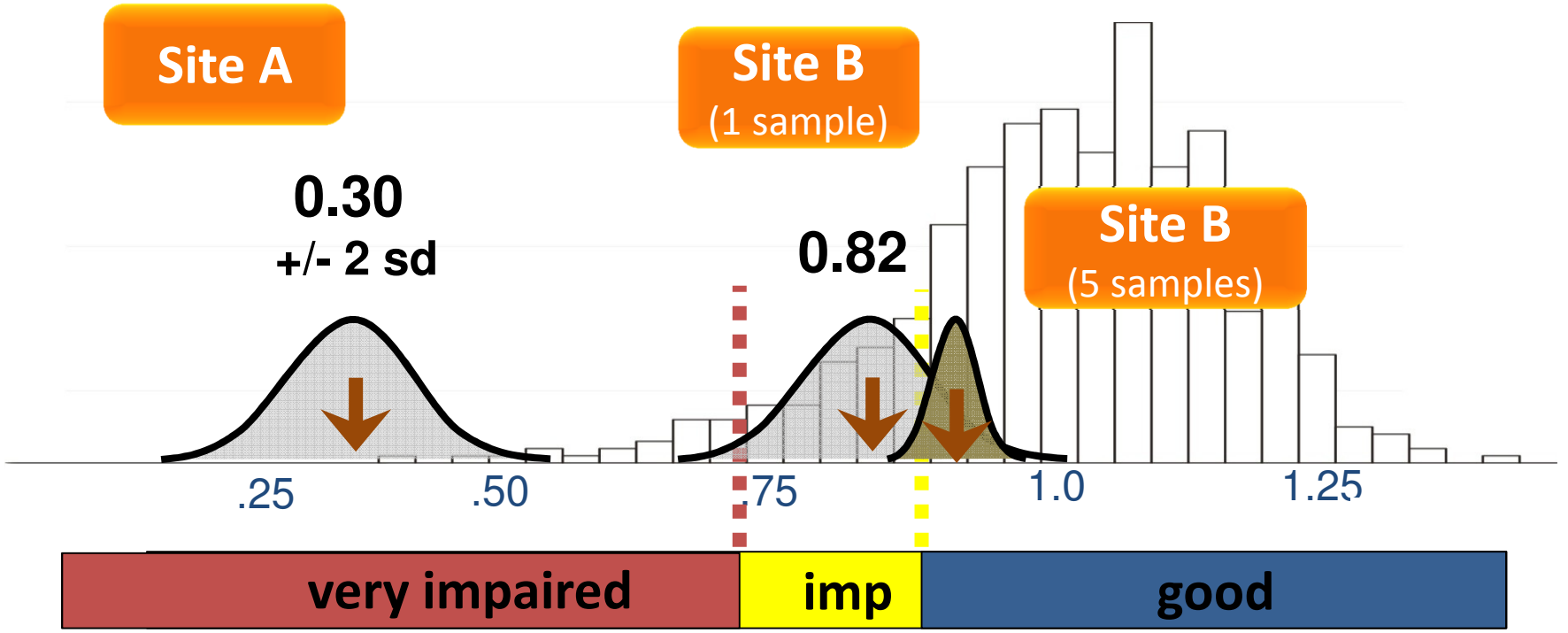
Distribution based thresholds:



very impaired **impaired** **good**

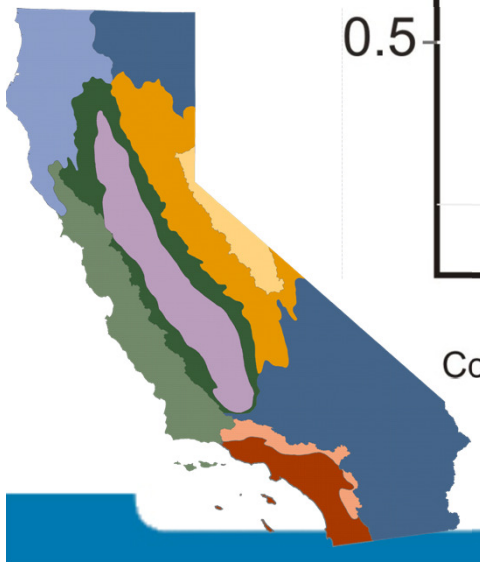
Incorporating Test Site Uncertainty

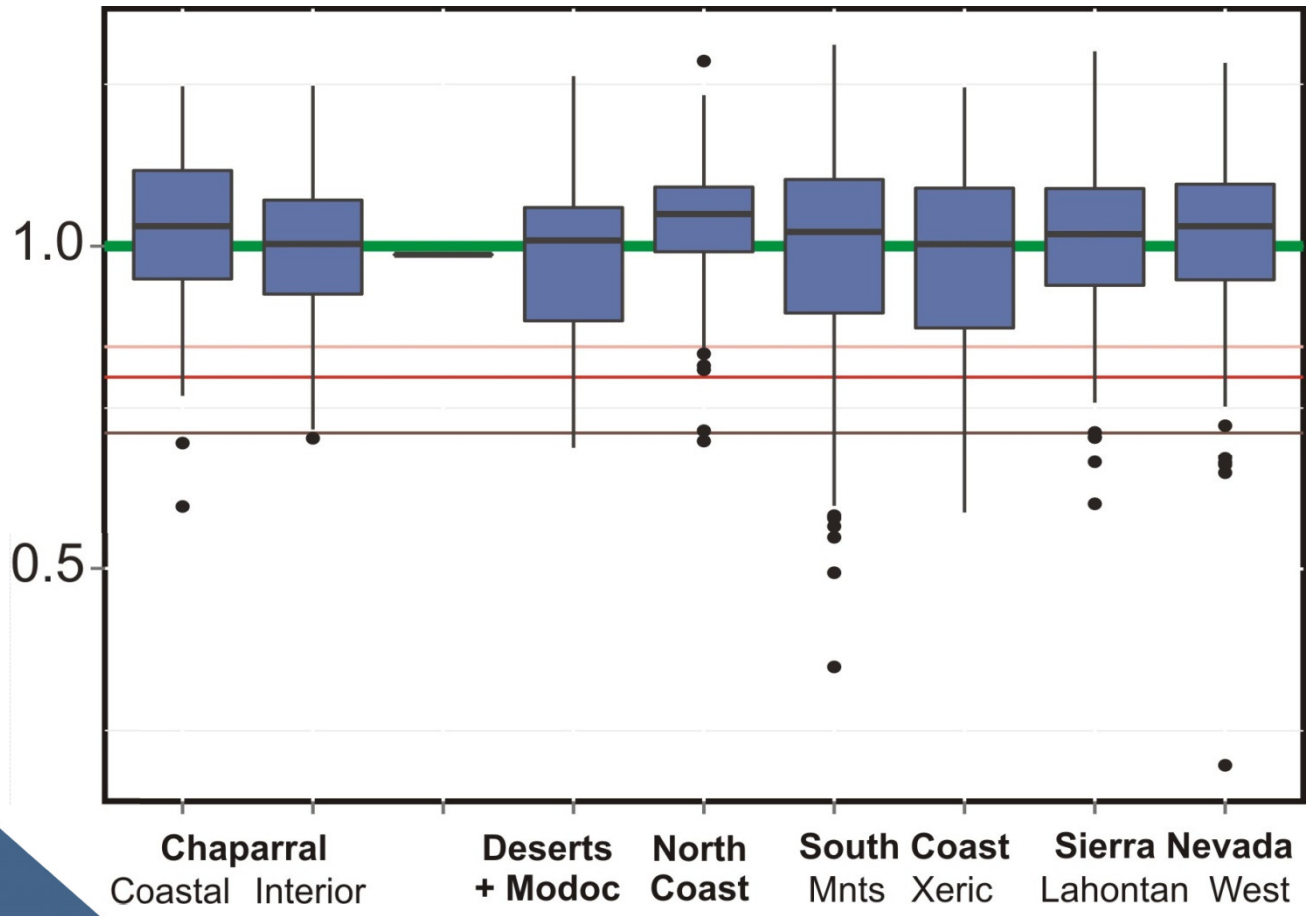
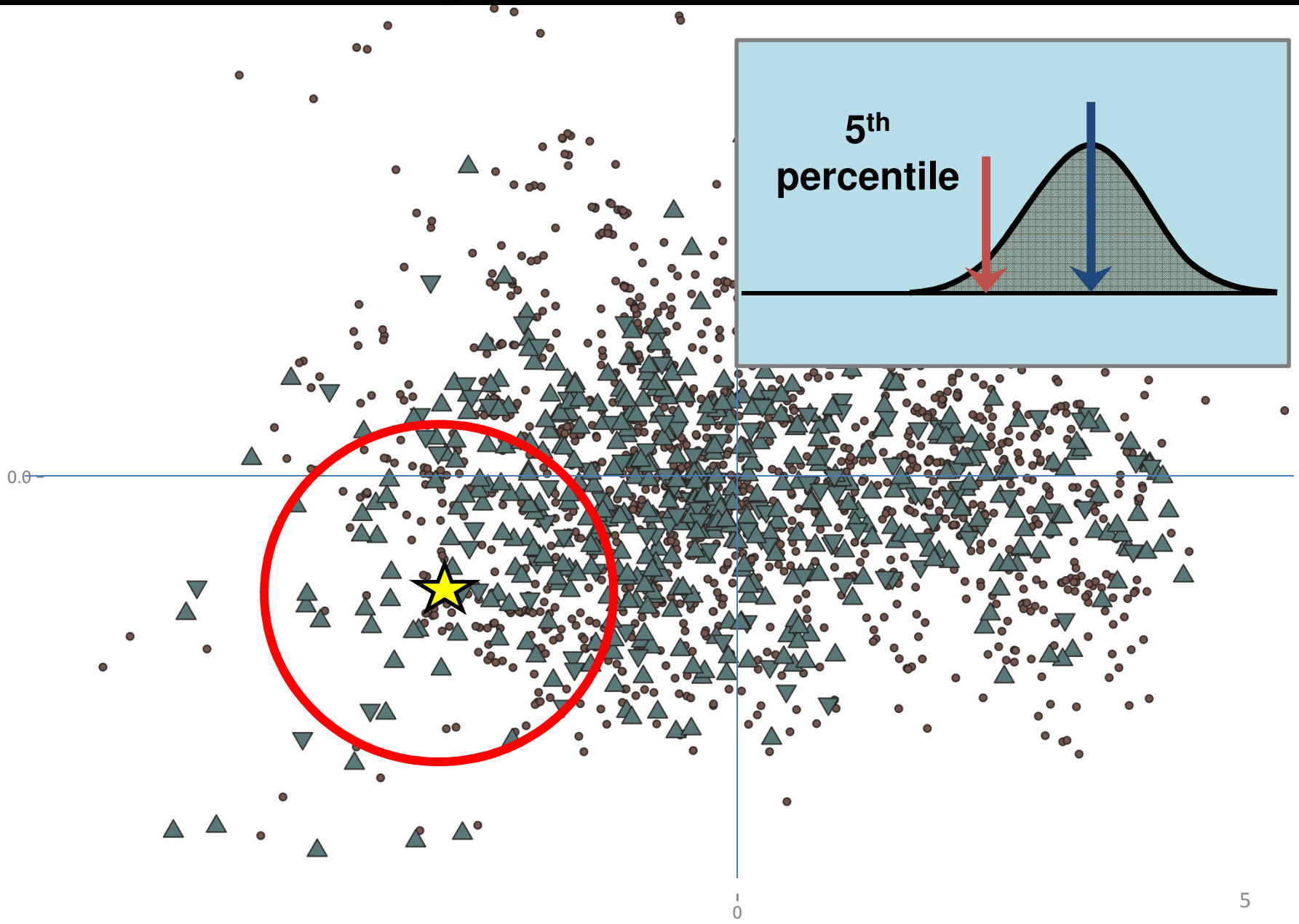
Use within-site error rate to account for uncertainty around test site score



more certainty with multiple samples

Ensuring Regionally Consistent Thresholds





Enhancing threshold consistency