Stormwater Management Issues Related to Climate Change

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Let’s Get Real

• Can we as a society really change our behavior and stop global warming?
• If there is even the slimmest chance that we can’t, let’s start preparing for the implications of climate change.
• Let’s talk about engineering.
• Sea level rise (low lying coastal areas)
• Increased rainfall (entire state)
Typically Parking Lot
Concept is to hold the stormwater runoff until tidal stream subsides, then slowly release it.
Rain Barrels/Cisterns
Aboveground Storage
Regional Planning

• Focuses on flooding and water quality issues for entire watershed;
• Provides specific solutions to defined watershed problems; and
• Promotes cooperation among the various entities to restore and protect a common resource.
Hydrologic Watershed Model
Hydraulic Stream Model
Model Results

- Stream Network
- 2 Year Storm
- 10 Year Storm
- 100 Year Storm
- FEMA 100 Year Storm
- Compare/Contrast FEMA w/ Model
- Area of Interest
By integrating research, education and extension activities at the watershed scale:

• **We are conducting applied research to produce solutions.**

• **These solutions are implemented at the local level through our extension activities.**

• **While training the next generation of water resources professionals.**
If we are going to effectively address stormwater management issues related to climate change, we need to work regionally to produce solutions but we need to work locally to implement these solutions.

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