



Watershed Model Task Force: Clarification of BMP Related Recommendations

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Purpose of Discussion

- Understand questions panel asked and discuss considerations in addressing them
 - Agree with recommendations to account for climatic extremes and spatial/temporal ranges in effectiveness
 - How can they best be applied?
 - Limits to implementation due to limited data?
 - How far is enough to address panel recommendations, given knowledge base?
 - Potential policy/management reaction

Dynamic Effectiveness (climate)

- Varied performance for different design events. Agree with recommendation? No effect above design storm. Can we use general, simplistic break? Example:
 - If within 0-50% of design storm assign 100% of the effectiveness estimate
 - When within 50-75% of design storm use two-thirds of the effectiveness estimate
 - Within 75-100% of design storm results in one-third of effectiveness estimate

Statistical Distribution/Ranges

- Insufficient data for statistical “effectiveness function”, could use relative reduction based on:
 - Performance varies with time to maturity and age:
 - Some BMPs (e.g. buffers) more effective with time
 - Some (SCWQP or SWM?) less effective with time
 - High vs. Low O&M: BMPs requiring annual O&M to function properly vs. one that does not have O&M requirements
 - Implementation:
 - Was it implemented?
 - How close is implementation to BMP definition/design?

Potential Implications (based on experience)

- Resistance to applying a discount from policy makers, managers, scientists, others
- Minimum of range becomes credit/pollution reduction credit in regulatory or market-based programs (e.g. trading, TMDLs, permits)