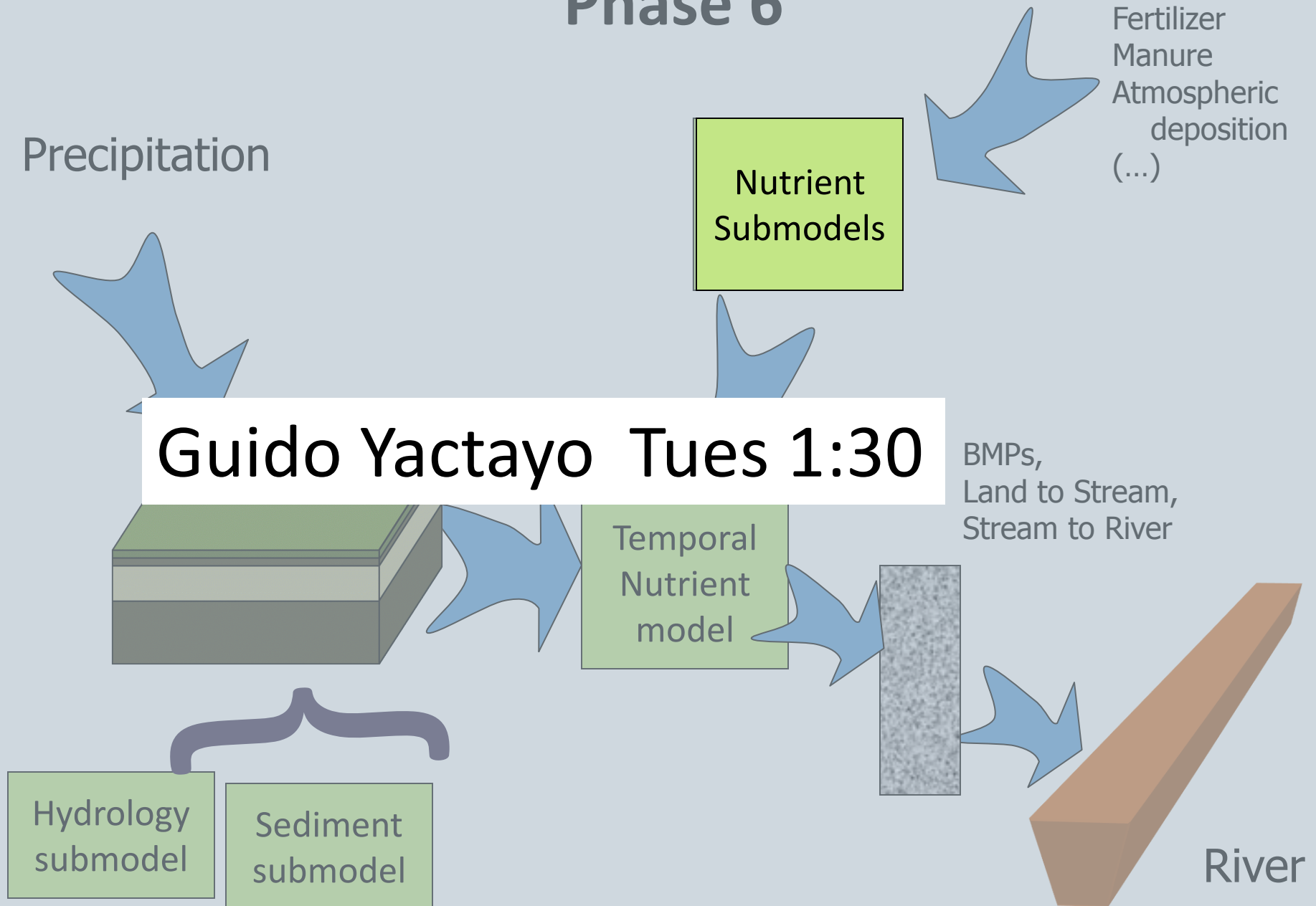


# Intro to N Sensitivity Discussion

Gary Shenk

1/28/2015

# Phase 6



## Field



## Land to stream



## Stream to River



## River to Estuary



# Phase 6

## *Nutrients*

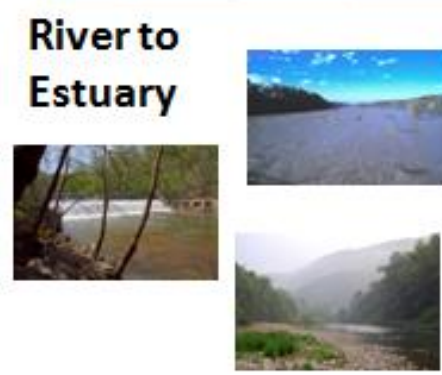
Estimate Spatial Average EOS  
Based on land use and inputs

Estimate watershed delivery  
variance based on landscape  
parameters

Estimate small stream effects

Directly Simulated in HSPF for river  
averaging at least 100 cfs

Calibrated to WQ data



# Phase 6

## *Nutrients*

Estimate Spatial Average EOS  
Based on land use and inputs

Estimate watershed delivery  
variance based on landscape  
parameters

Estimate small stream effects

Directly Simulated in HSPF

Load =

Calibrated  
load + Sensitivity \*  $\Delta$  Inputs

\*

BMPs

\*

Watershed Delivery Variance  
Centered on 1

\*

Stream Delivery

\*

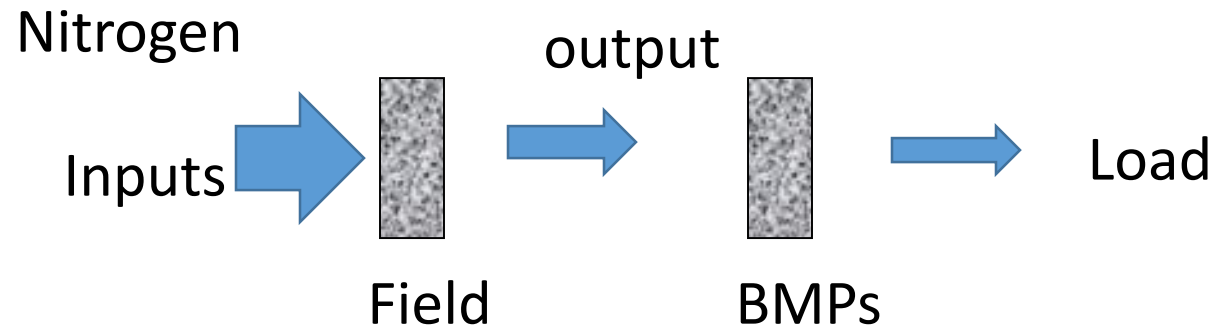
River Delivery

# Intro to P Sensitivity Discussion

Gary Shenk

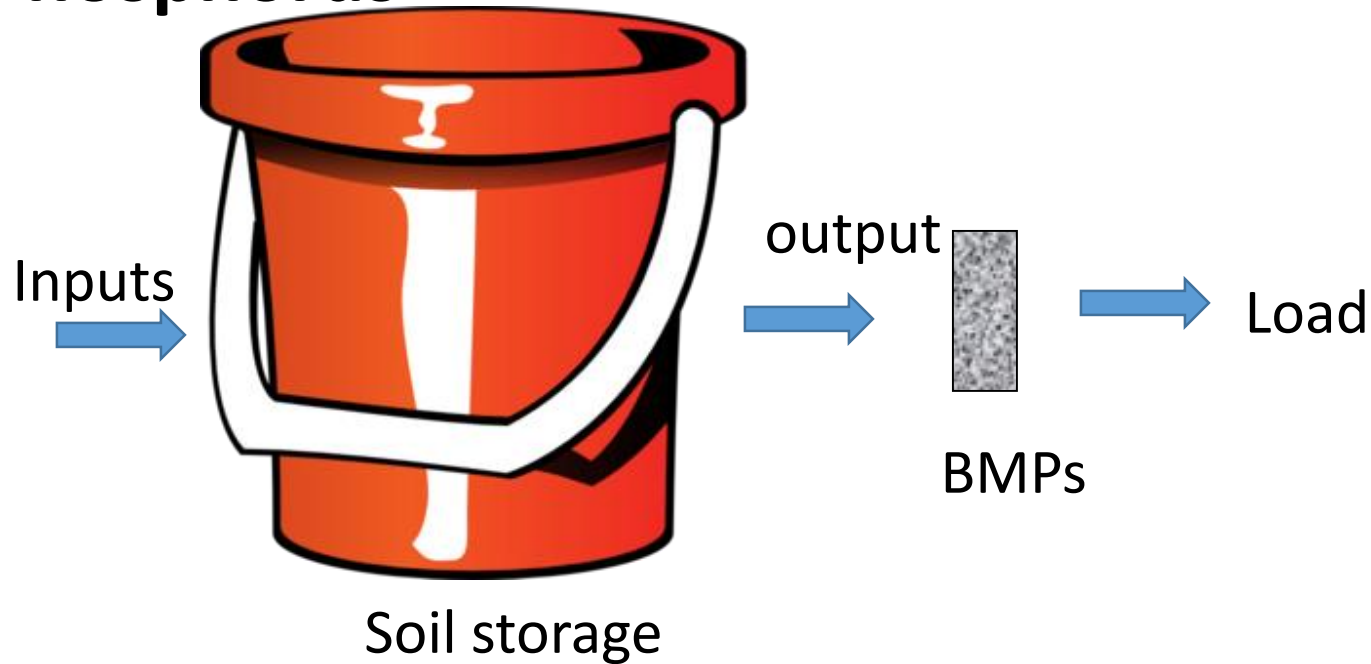
1/28/2015

# Conceptual Model of Nitrogen Sensitivity



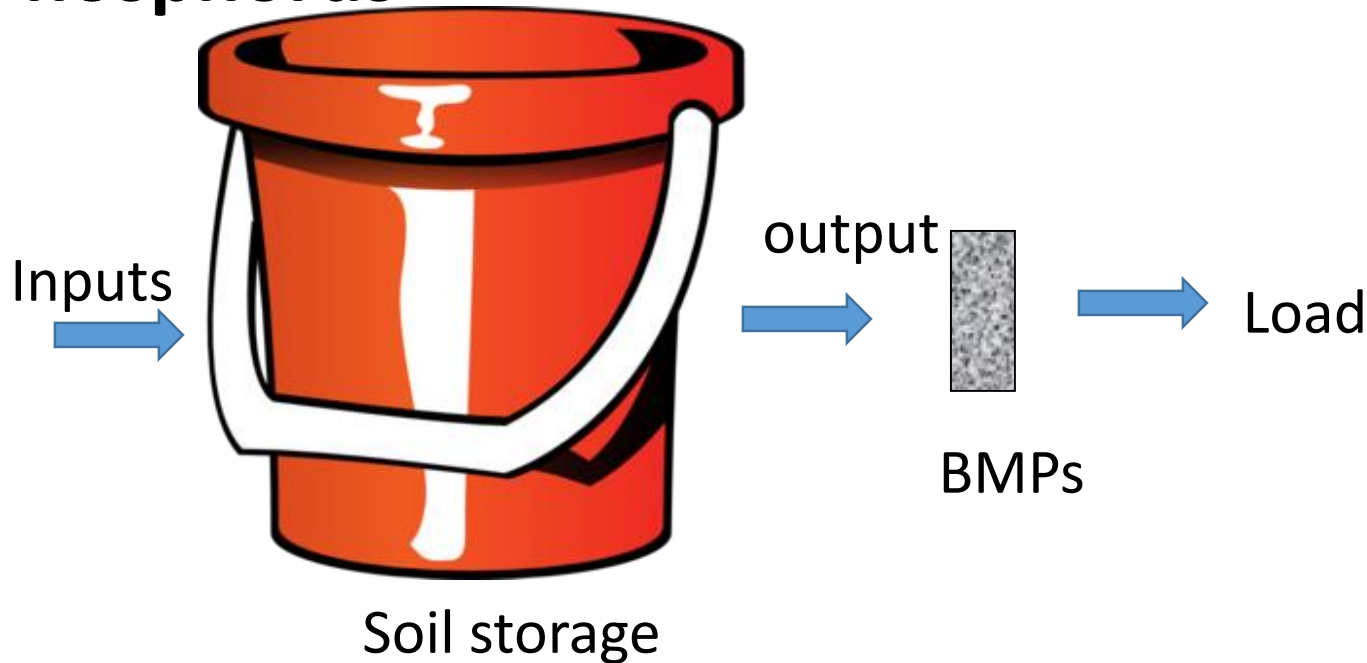
# STAC Phosphorus Report

## Phosphorus



# STAC Phosphorus Report

## Phosphorus



### CBP Management Question

“What set of management practices will produce the necessary water quality response over the **long term**?”

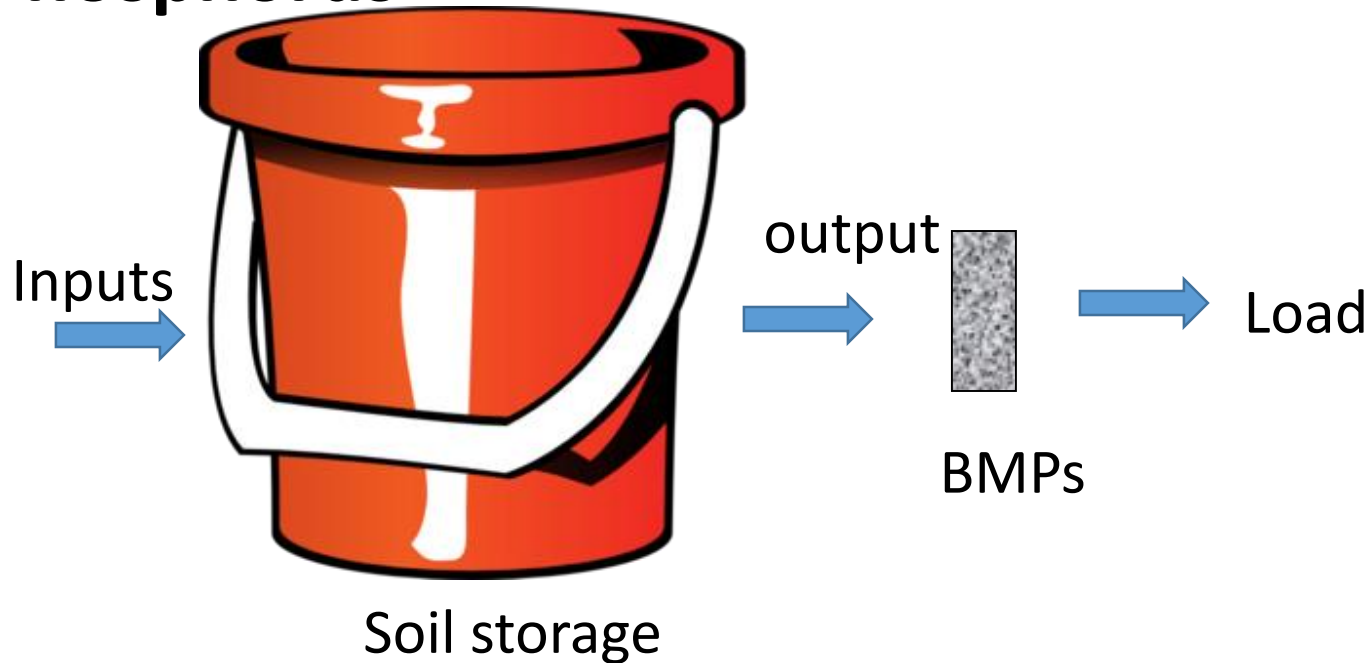
### New Management Issues

“What do we mean by **long term**?”  
“When will we see these changes?”



# STAC Phosphorus Report

## Phosphorus



- Gather Soil Data
- Investigate APLE