



## Wood River Valley Modeling Technical Advisory Committee Response to Comments on Draft Modeling Objectives

Presented by Sean Vincent  
August 1, 2013



## Preface

- IDWR and USGS encourage active participation from MTAC members
- Comments constructive, thought-provoking, & deserving of response/discussion
- Response intended to generate discussion

# Summary of Comments

1. Need to prioritize objectives
  - Facilitating Conjunctive Administration is #1 objective
2. Objectives are too broad/vague → be more specific
3. Preliminary 100m x 100m grid is too coarse

## Response to Comment #1 (prioritize)

- Need to prioritize diminished since design requirements for the various objectives don't appear to be in conflict
- Facilitating Conjunctive Administration is important objective for IDWR but not necessarily so for the entities providing most of the funding (IWRB & USGS)

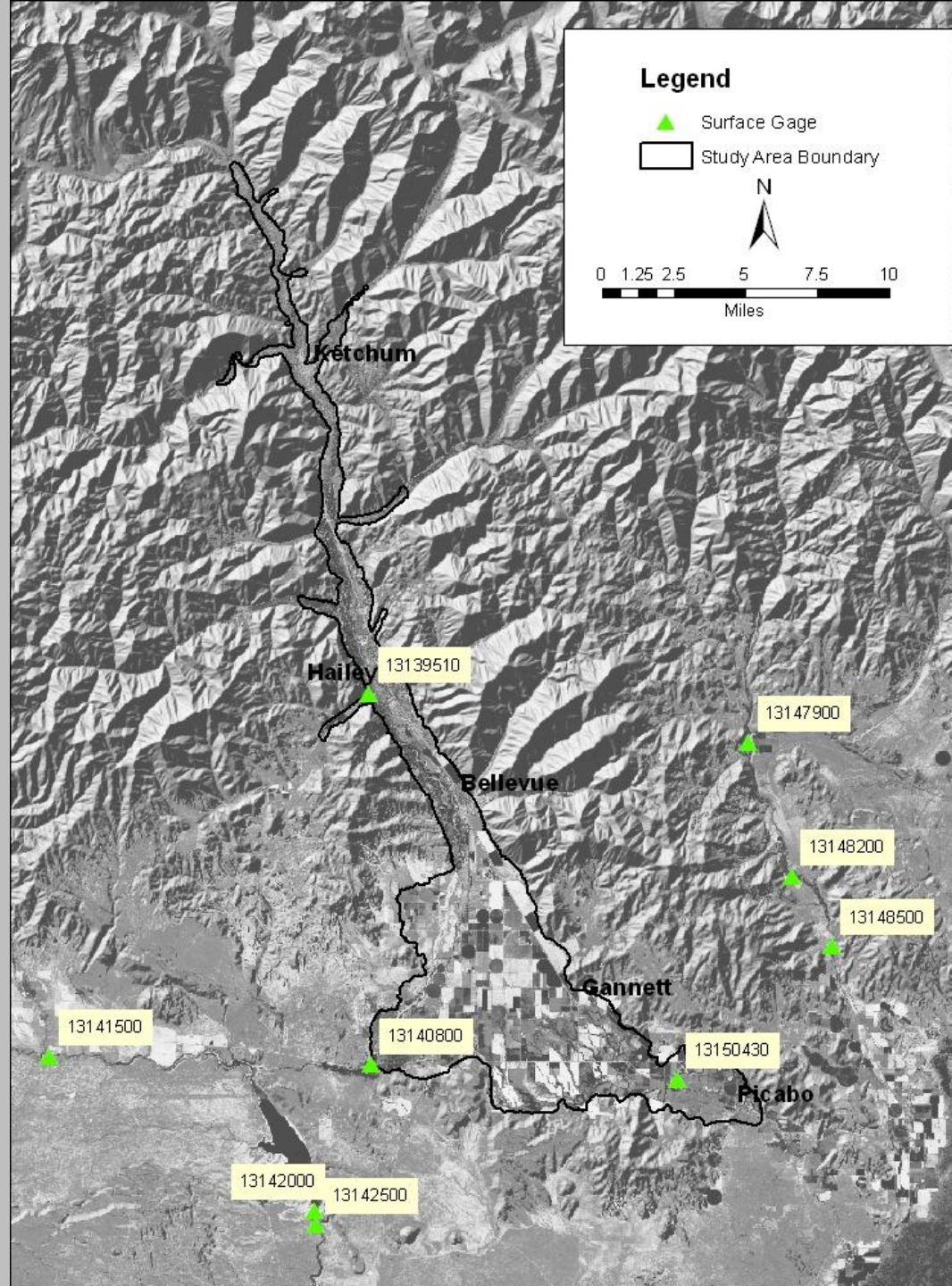
## Response to Comment #2 (vague)

- Agree that draft objectives not terribly specific
- Draft objectives nonetheless accurate & useful for:
  - selecting code, solver, & river/stream package
  - delineating model domain
  - establishing requirements for defensibility & documentation
- Objectives also identify what we're not needing the model to do (evaluate well-to-well impacts)

## Response to Comment #2 (cont'd)

- There are reasons to question the need for increased specificity:
  1. We don't know what Conj. Admin. will look like (& not our job to decide) → best we can do is look at ESPAM requirements
    - Quantify groundwater pumping impacts on river reaches
    - Determine priorities for curtailment/quantify mitigation benefits
    - Facilitate groundwater POD transfers
    - CAMP scenarios
  2. Spatial and temporal discretization likely will be constrained by data availability, not by objectives





## Response to Comment #3 (too coarse)

- For 100m x 100m grid cells:
  - 23,600 cells intersect WRV study area (larger, 1-layer ESPAM has 11,236 active cells)
  - Center pivot ~ 8 grid cells wide
  - ~256 cells to cover the area of 1 ESPAM cell
- 100m grid spacing likely exceeds defensible level of refinement based on density of calibration data
- Local grid refinement relatively easy w/ MODFLOW USG



● GW\_IrrMuni\_RecPOD

● GW\_IrrMuni\_WRPOD

## UprWoodCanals06032013

### CanalSys

— Comstock

— Rinker

— Mizer

— Hiawatha 22

— Valley Club

— Cove 33

— Broadford 34 to 42

— District 45

— Bannon 49

— Glendale 50

— Bypass Baseline

— Bypass return

— Graff 62

— Loving Silver

— Kilpatrick Albreteson

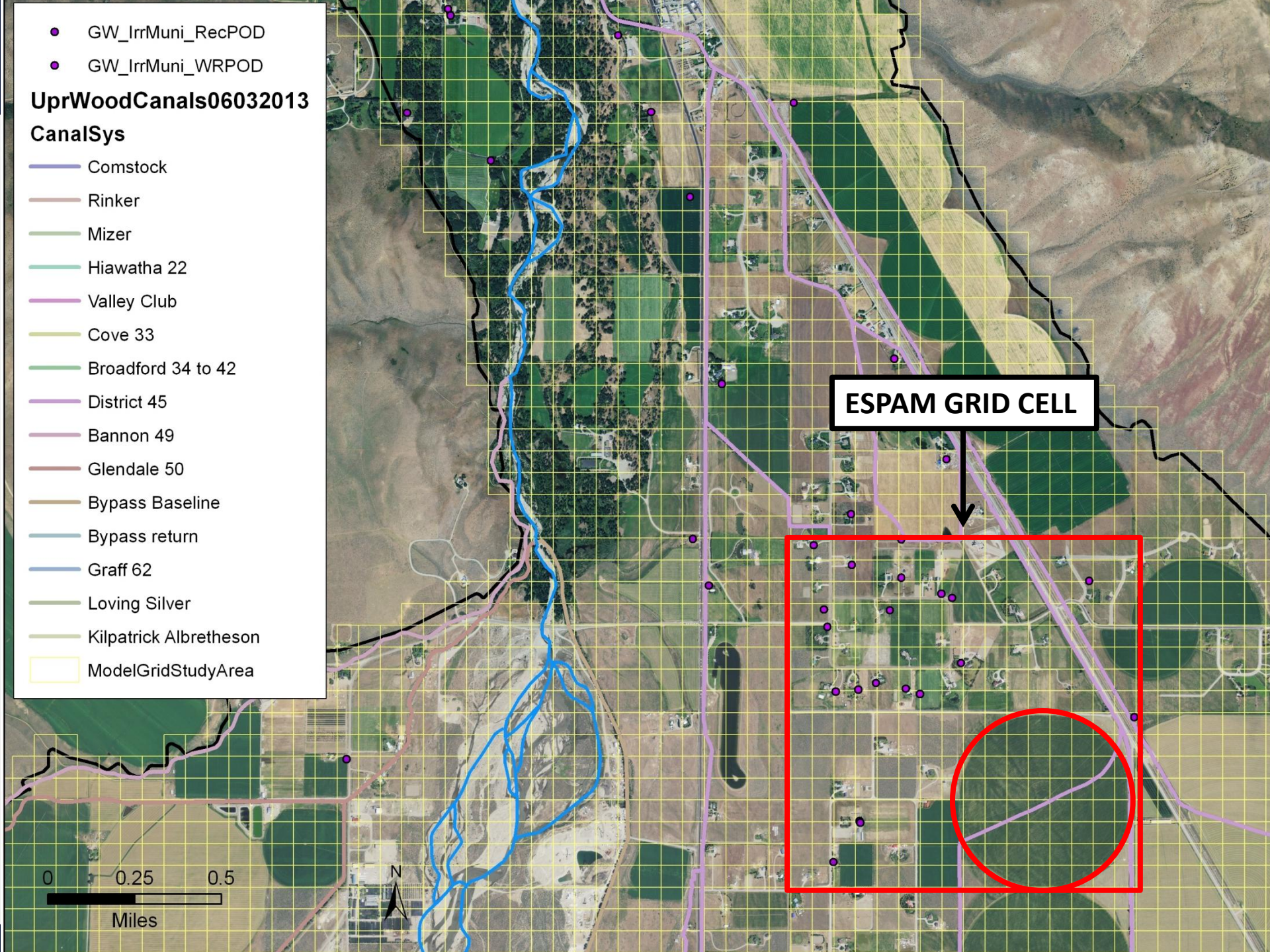
— ModelGridStudyArea

ESPAM GRID CELL

0 0.25 0.5

Miles

N





A photograph of a field of tall, golden-brown grass. In the background, a wire fence is visible, and the horizon is hazy. The overall tone is warm and slightly desaturated.

# Discussion