

GMA 8

Joint Groundwater Planning



July 26, 2019

Agenda Item 7

💧 Discussion and possible action on potential model runs for this planning cycle

💧 Meeting scheduled with TWDB staff to discuss GMA 8 issues

- WSP consultant team
- Joe, Dirk, Drew, and Mitchell

💧 Modeling Issues

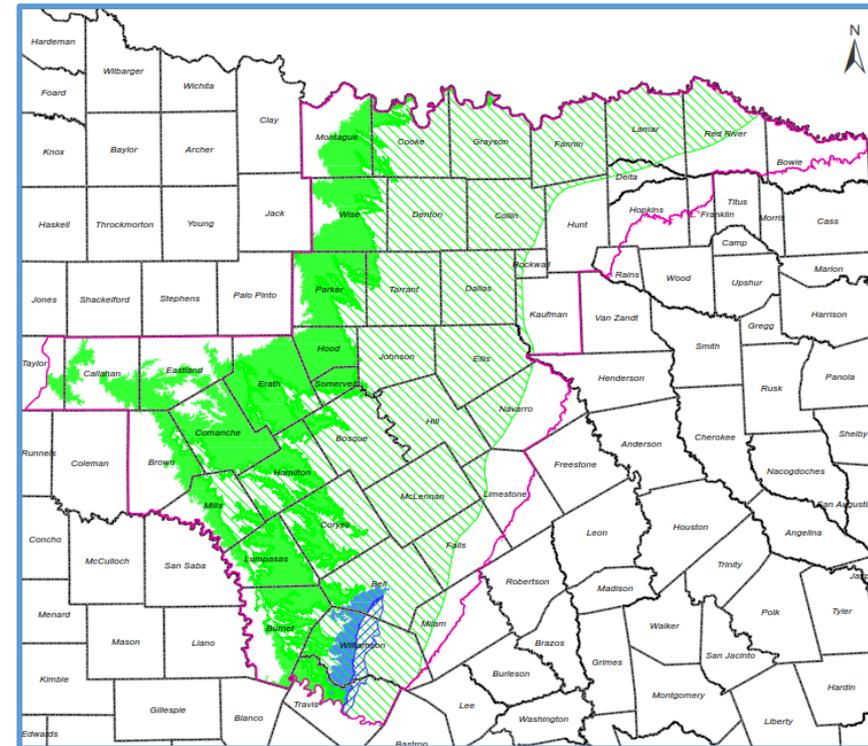
Major Aquifers

🌊 Northern Trinity Woodbine GAM

- Trinity
- Woodbine
- Current budget allows one updated simulation

🌊 Northern Edwards (BFZ) GAM

- Edwards BFZ
- Clearwater JWCD funding



Minor Aquifers

💧 Llano Uplift Aquifer System GAM

- Ellenburger-San Saba
- Hickory
- Marble Falls
- No funding in current budget

💧 Nacatoch Aquifer GAM

- Non-relevant last round

💧 Brazos River Alluvium Aquifer GAM

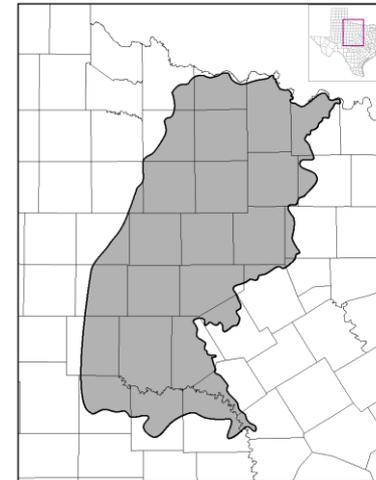
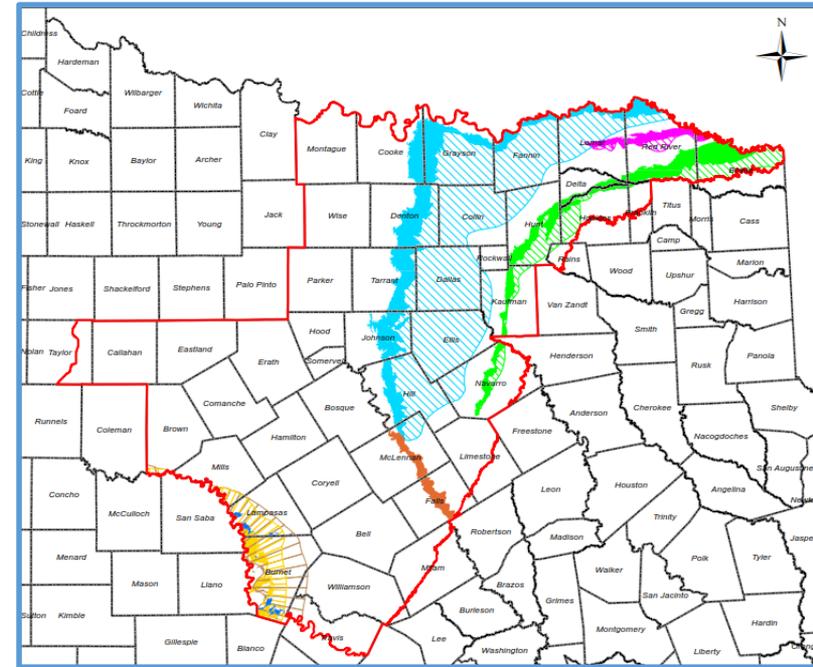
- Non-relevant last round

💧 Blossom Aquifer GAM

- Non-relevant last round

💧 Cross Timbers Aquifer GAM

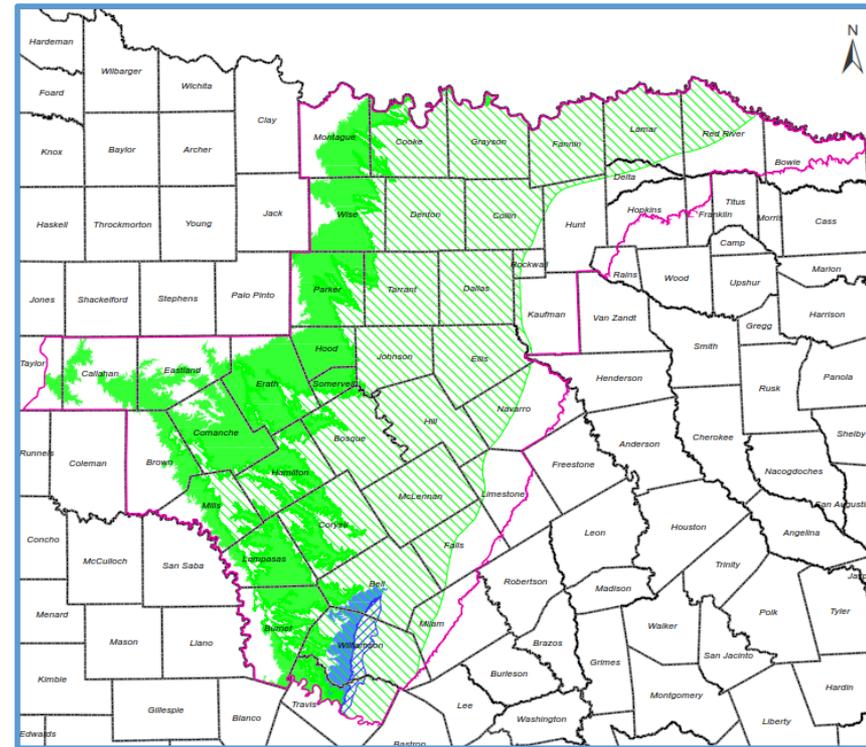
- Cross Timbers
- GAM likely not ready in this round
- Relevant or NOT?



Modeling Runs

🌊 Northern Trinity Woodbine GAM

- Run 10



Run 10 Description

- 💧 Used TWDB accepted version of the GAM
- 💧 Initial conditions set as simulated water levels on January 1, 2010 from transient calibration run
- 💧 Adjusted pumping amounts based on GCD input
- 💧 No changes to areal distribution of pumping from baseline
- 💧 No changes in aquifer assignment of pumping from baseline
- 💧 Set pumping so that model code would not automatically reduce pumping amounts

Run 11 – Update of NTWGAM

Adjusted pumping amounts based on GCD input

- Things to consider:
 - Rule changes
 - New permits
 - Anticipated pumping changes
 - Balancing highest practicable and conservation
 - Comments from last round of planning
 - Other
- We propose that each GCD review the TWDB MAG spreadsheet and adjust pumping estimates

Vertical adjustment of pumping

- Run 10 - Set pumping so that model code would not automatically reduce pumping amounts
- Tell us if you want to adjust



Questions

Agenda Item 8

- 💧 Discuss plan and schedule for GMA 8 consideration of nine factors required by Texas Water Code Subsections 36.108(d)(1 – 9) in the third round of DFC joint planning

WSP Team Approach to Presenting Information on Nine Factors

(Texas Water Code Subsections 36.108(d)(1-9))

- 💧 Factor presentations – Three GMA 8 Meetings (November 2019, February 2020, and May 2020)
- 💧 Focused discussion on factors during each meeting
- 💧 WSP Team presentations to guide discussions – GCDs make presentations available during 90-day public comment period
- 💧 Factor presentation content to be reflective of explanatory report content
- 💧 Re-visit factor discussions as needed when various GAM runs, or DFC statements considered

Proposed Schedule for Factors

November 2019		
Environmental Impacts	Subsidence Impacts	Hydrological Conditions
February 2020		
Aquifer Uses or Conditions	Supply Needs & Management Strategies	Private Property Rights
May 2020		
Socioeconomic Impacts	DFC Feasibility	Other Relevant Information



Questions

Agenda Item 9

- 💧 Discuss plan for updating and preparing the GMA 8 explanatory report for the third round of DFC joint planning

WSP Team Approach to Preparing the Explanatory Report

(Texas Water Code Section 36.108(d-3))

- 💧 Use GMA 8 second round of DFC joint planning ER as starting point
- 💧 Update ER discussion and appendices as needed
- 💧 WSP Team presents and reviews 1st ER draft – August 2020
- 💧 GMA 8 considers ER approval – November 2020



Questions

Agenda Item 10

💧 Discussion and possible action of joint planning schedule



Questions