

Status Report on GMA 12 Planning

Presented to GMA 12
April 30, 2015

By GMA 12 Consultant Team

Development of Desired Future Conditions

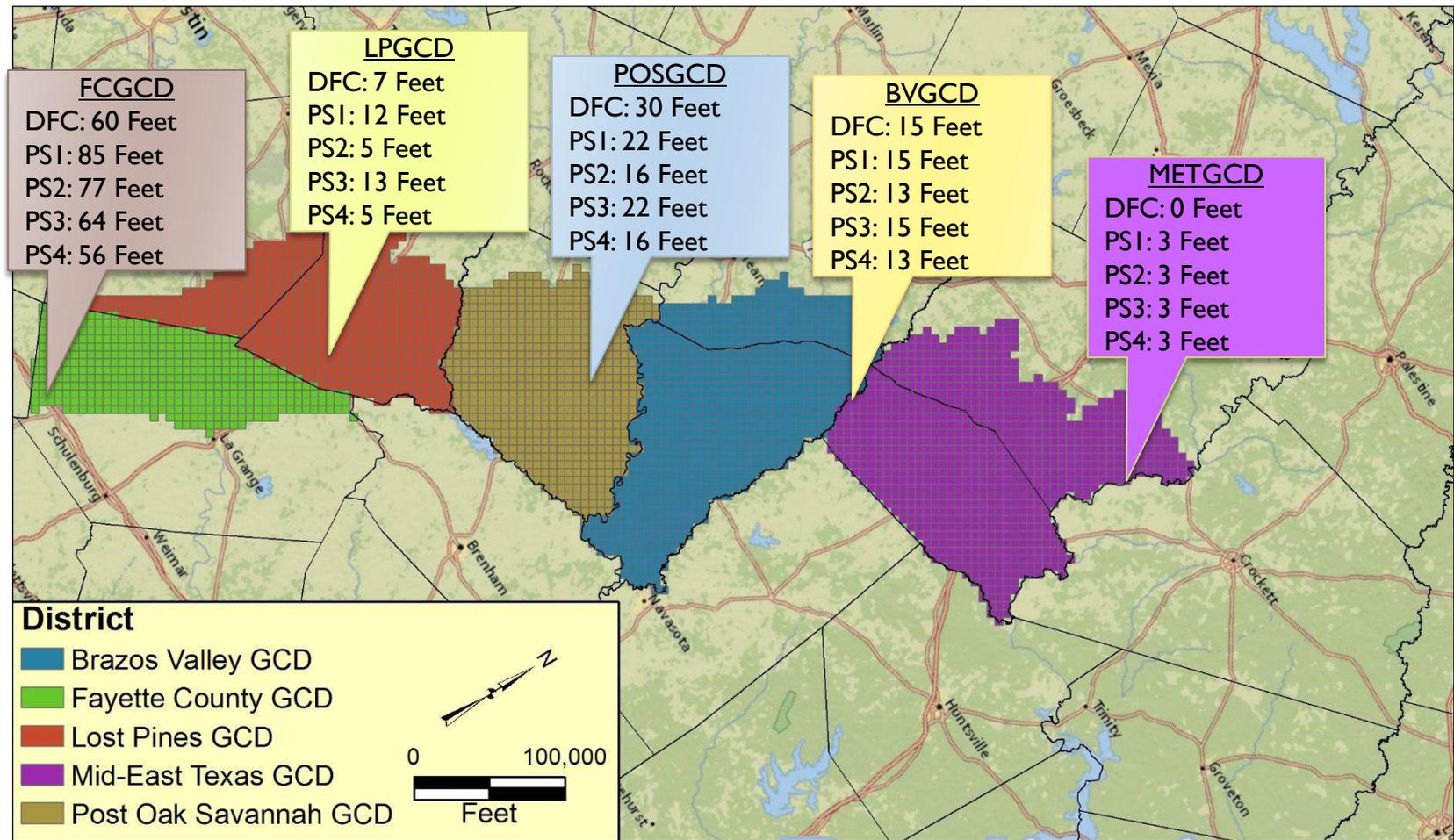
- ▶ Model simulations performed and presented previously to provide estimated drawdowns from several different pumping totals (PS-1, PS-2, PS-3 and PS-4)
- ▶ Need to begin to evaluate the required nine factors as part of the development of DFCs

Model Runs

- ▶ PS-3- _Full Permit: run (PS-3 is the same as PS-1 with minor corrections)
- ▶ PS-4- _Anticipated Use: run (PS-4 is the same as PS-2 with minor corrections)
 - ▶ _Anticipated Use: based on regional water planning projections
- ▶ These are not proposed DFCs

Sparta Aquifer (Layer 1)

Average Drawdown ' 2000 to 2070

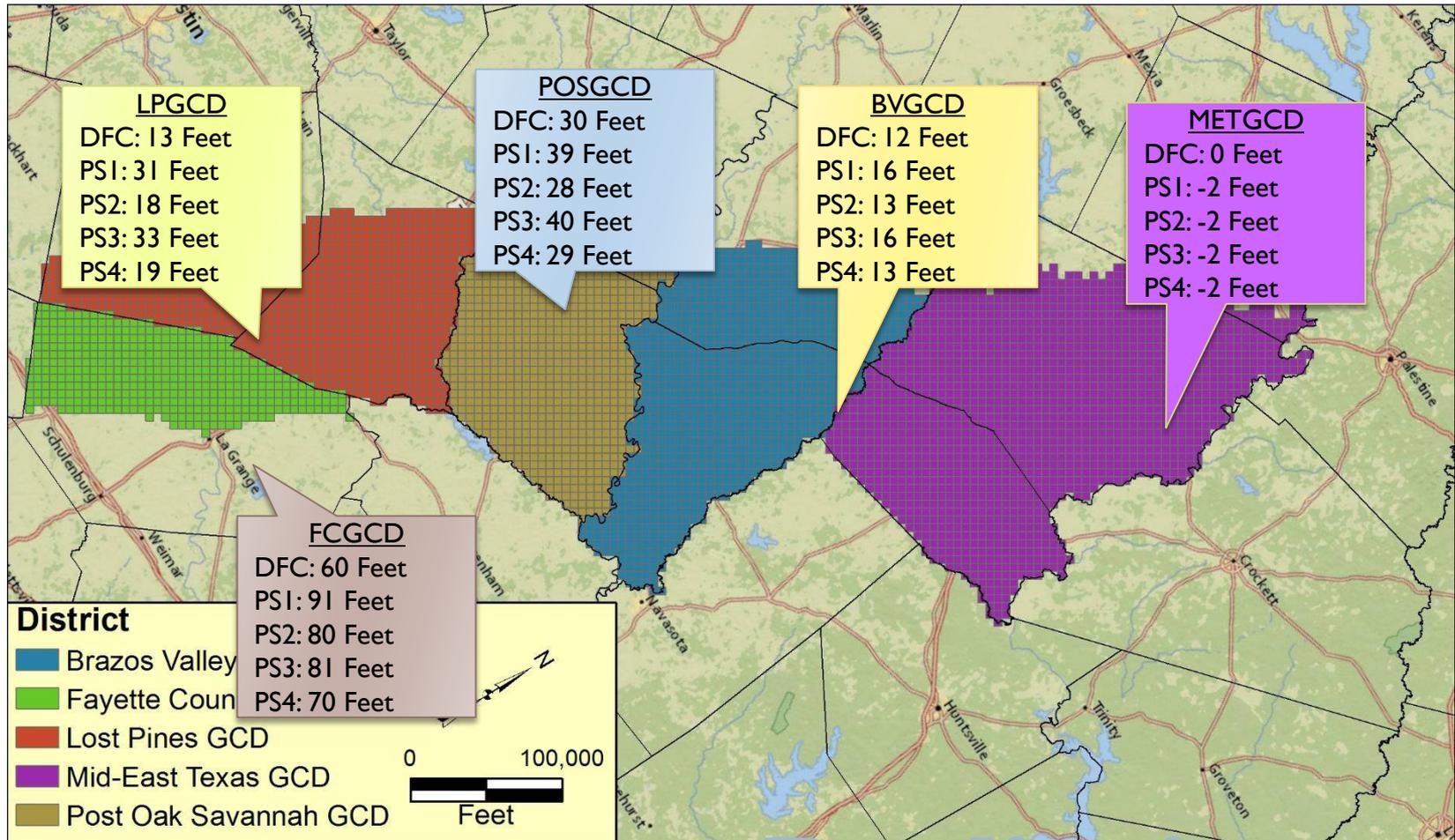


Preliminary

4/30/2015

Queen City Aquifer (Layer 3)

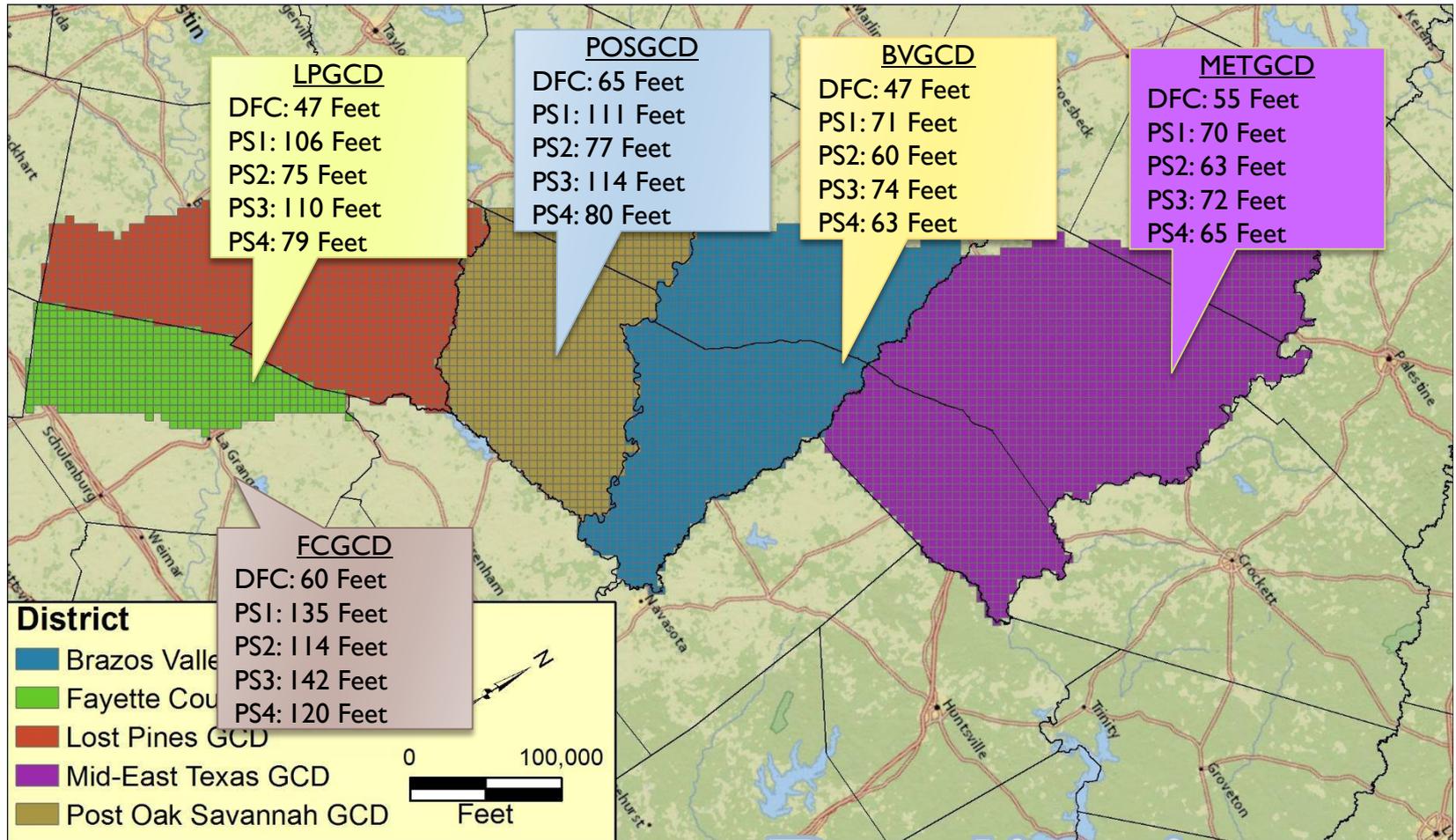
Average Drawdown ' 2000 to 2070



Preliminary

Carrizo Aquifer (Layer 5)

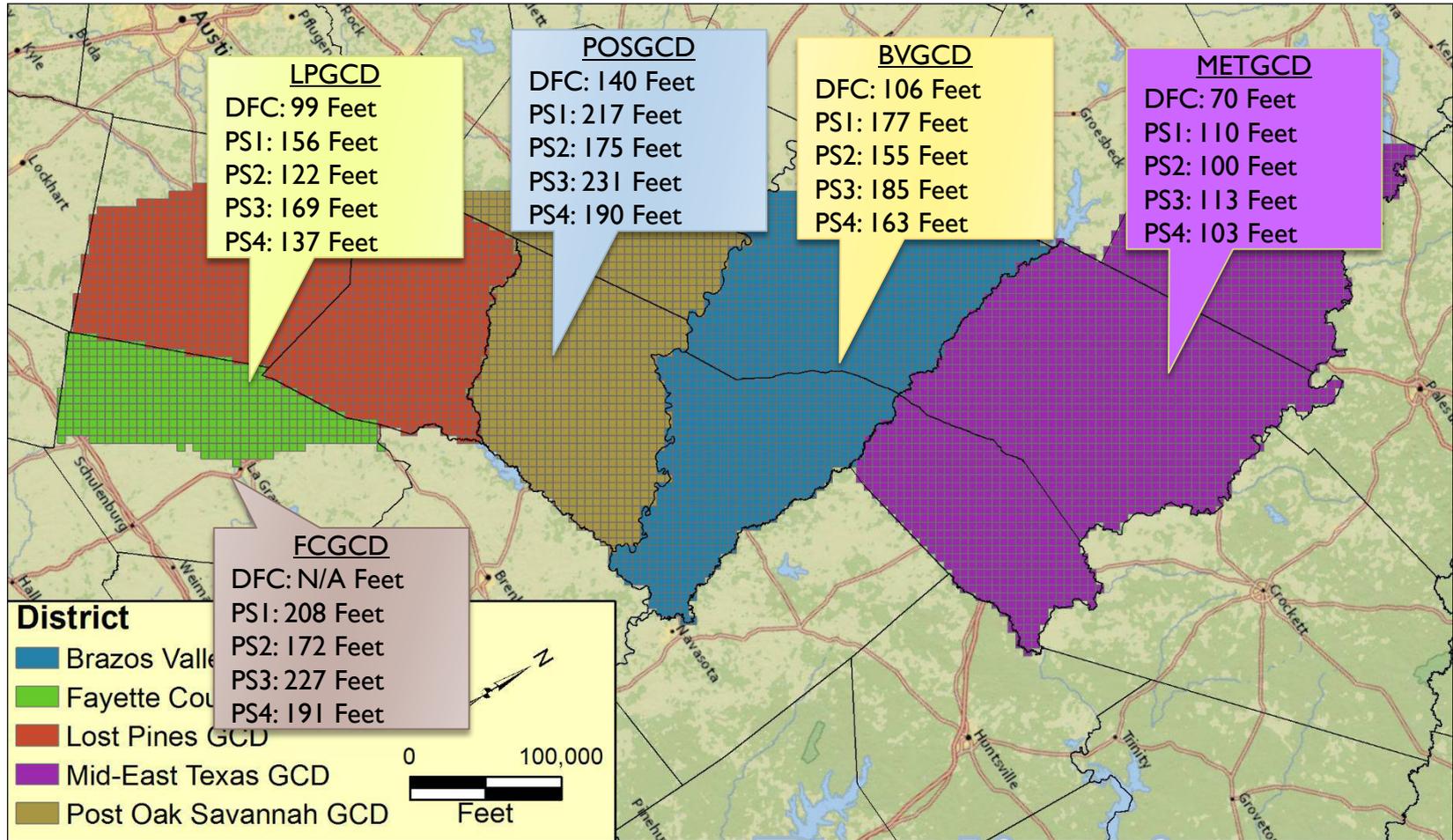
Average Drawdown ' 2000 to 2070



Preliminary

Calvert Bluff Aquifer (Layer 6)

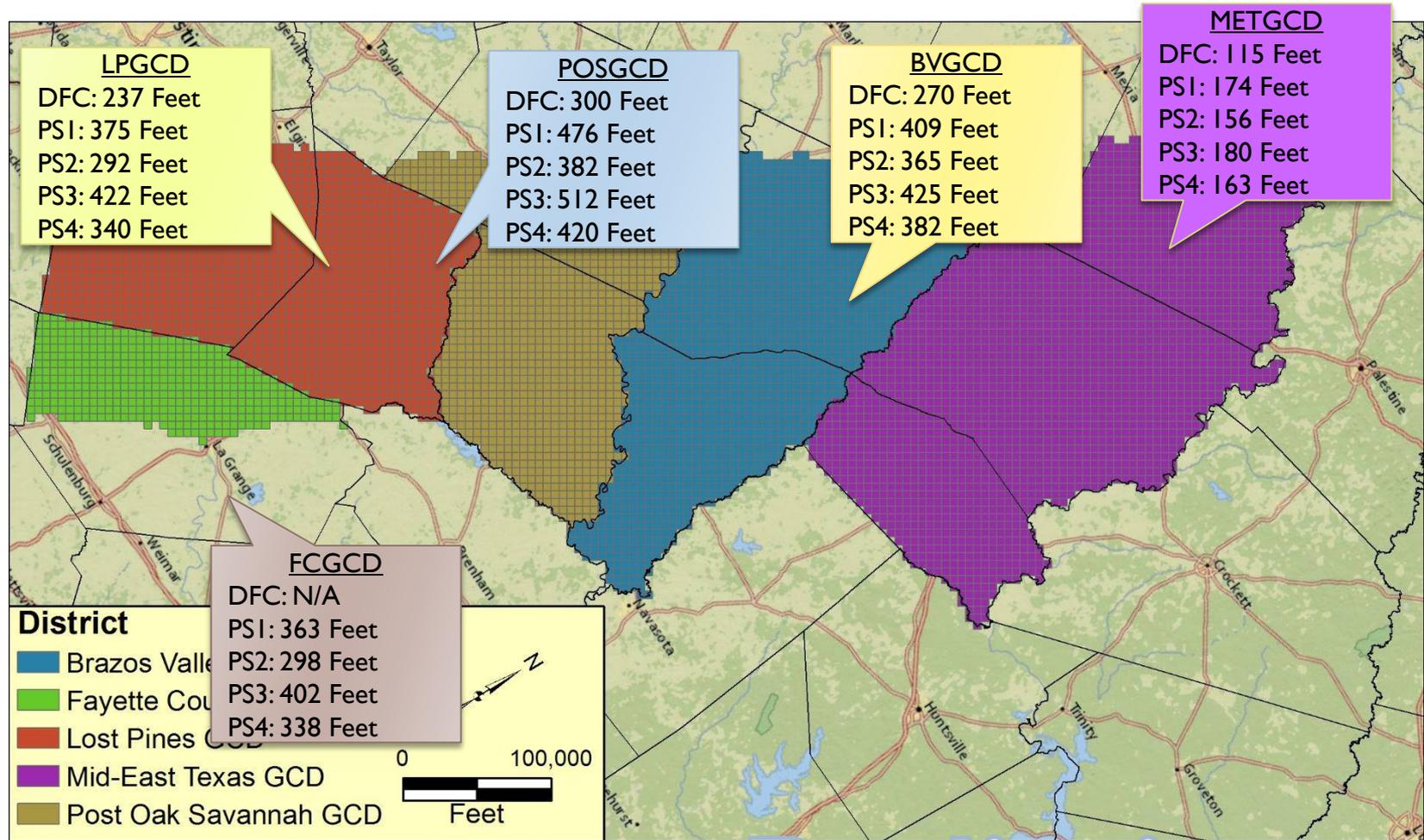
Average Drawdown ' 2000 to 2070



Preliminary

Simsboro Aquifer (Layer 7)

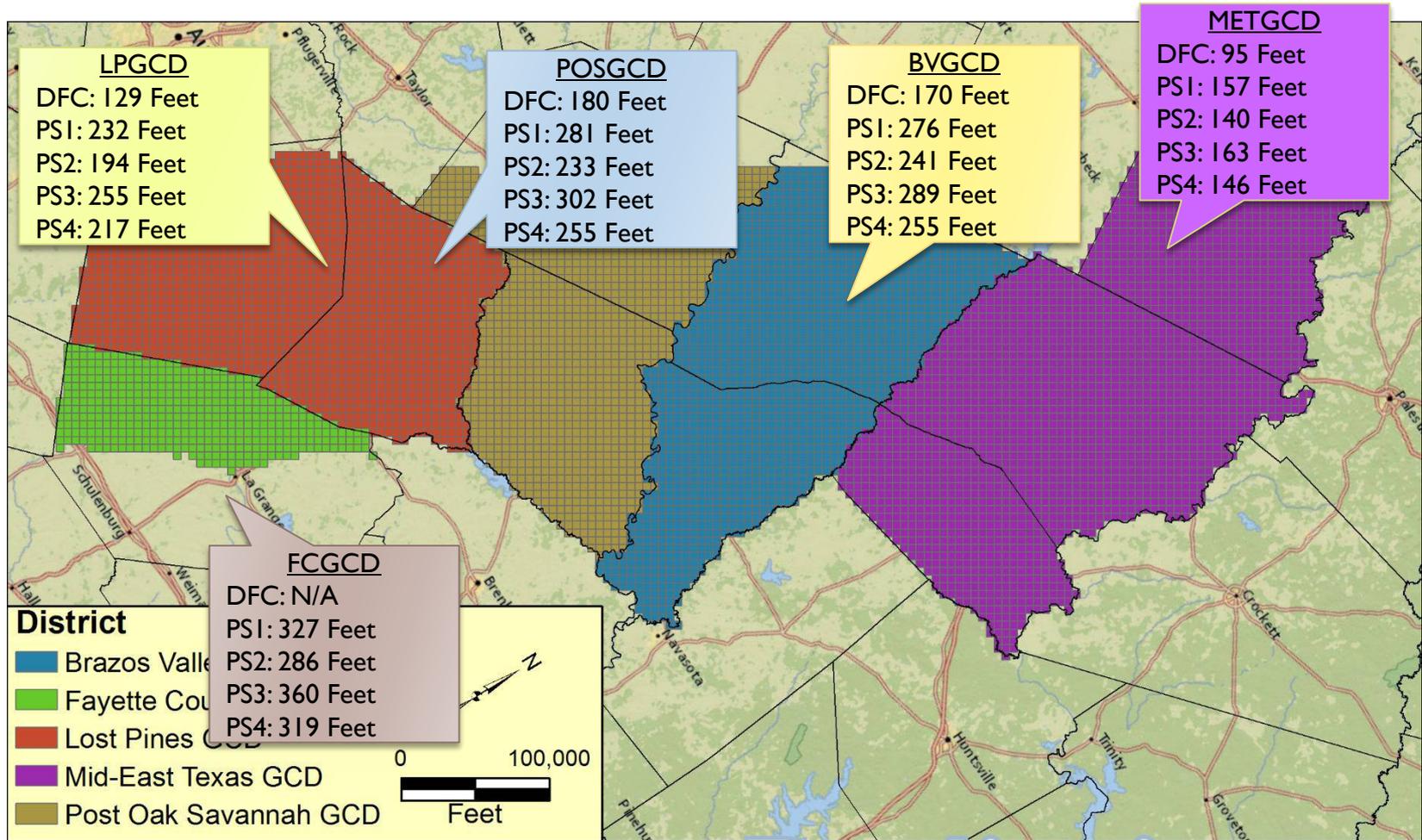
Average Drawdown ' 2000 to 2070



Preliminary

Hooper Aquifer (Layer 8)

Average Drawdown ' 2000 to 2070



Preliminary

4/30/2015

Considerations in Modeling DFCs

- ▶ Modeling (and DFCs) should extend pumping from 2060 to 2070
- ▶ Minor pumping adjustments from past baseline pumpage inputs are needed
- ▶ Uncertainty in GAM results will be considered

Considerations in Developing DFCs

- ▶ Comments received since last meeting
- ▶ Responses from GCDs within GMA 12
- ▶ Nine criteria required to be considered

- ▶ Upcoming revisions/improvements in a few years to Queen City ´ Sparta GAM (will not impact current round of DFC development)

The Nine Factors

- ▶ Aquifer uses and conditions
- ▶ Water supply needs and water management strategies
- ▶ Hydrological conditions, including TERS
- ▶ Environmental impacts
- ▶ Subsidence
- ▶ Socioeconomic impacts
- ▶ Private property rights impacts
- ▶ Feasibility of achieving DFCs
- ▶ Anything else

DFC Comments / Recommended DFCs

- ▶ DFC submittal form has been developed and is available in hard copy and electronically
- ▶ GMA should only accept DFC comments and/or proposed DFCs in written form

Recommended Plan Forward

- ▶ Discuss the seven specific factors over the next three to four GMA meetings
 - ▶ Feasibility of achieving DFCs cannot be evaluated until we have proposed DFCs or are considering specific DFCs. Model runs help with this.
 - ▶ Any other information can be added when/if needed
- ▶ Evaluation of factors should be presented at the GMA meeting, discussed in detail, and comments requested

A large field of bluebonnets in full bloom, stretching towards a line of green trees under a clear blue sky. The text 'Thank You' is overlaid in the upper left, and 'Questions?' is overlaid in the center-right.

Thank You

Questions?