Discussions of Feasibility of Achieving DFCs

Groundwater Management Area 14

2026 Joint Planning

September 17, 2025

Desired Future Conditions (“DFCs”) TWC 36.108(d-2)

Highest Practicable Level
of Groundwater Production

Conservation,
Preservation, Protection,
Recharging, and Prevention
of Waste of Groundwater
and Control of Subsidence

DFC Considerations TWC 36.108(d)

(1) Aquifer Uses or Conditions

(2) Supply Needs and Management Strategies

(3) Hydrological Conditions

(4) Environmental Impacts

(5) Subsidence Impacts

(6) Socioeconomic Impacts

(7) Private Property Rights

(8) Feasibility

(9) Other Relevant Information

2021 Joint Planning Approach

Physical Feasibility:

As demonstrated in the model run, the DFCs being considered in GMA 14 can each be achieved simultaneously

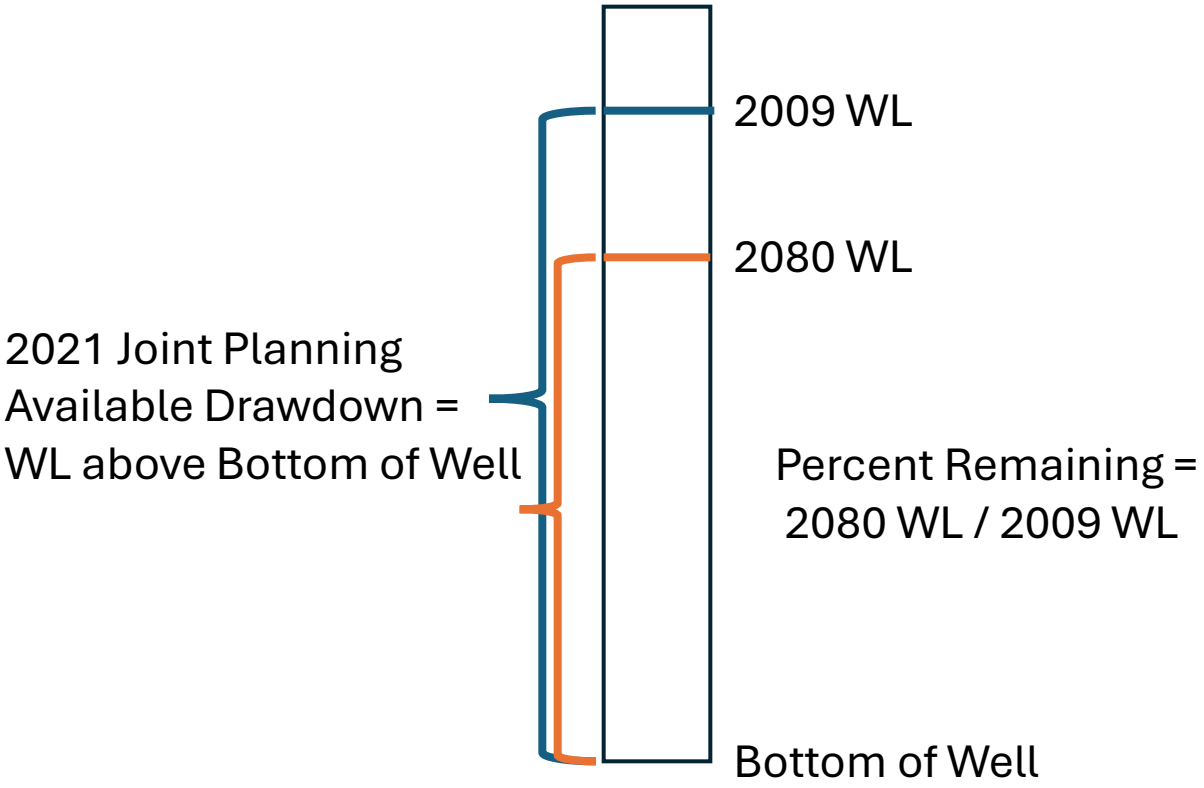
Regulatory Feasibility:

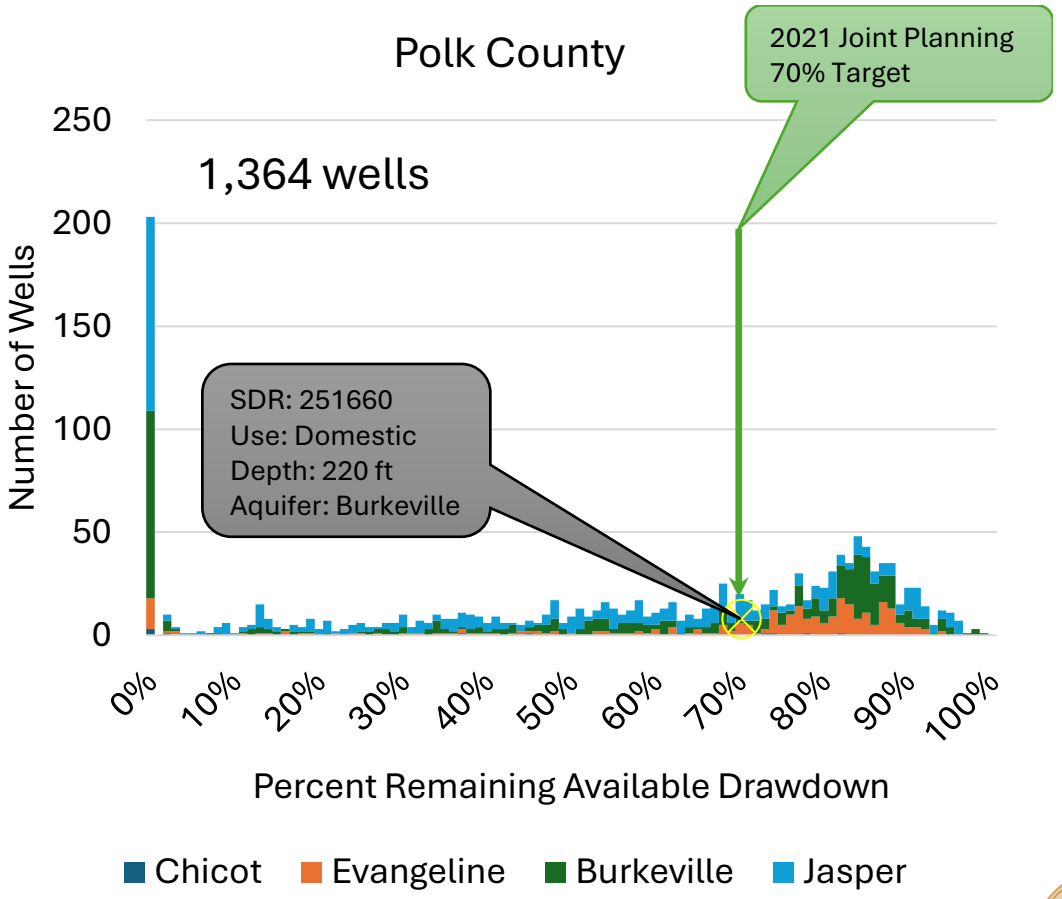
The DFCs being considered in GMA 14 can be achieved using the existing regulatory tools available to the GCDs

Other Feasibility Considerations

- Measurability
  - Can GMA members reasonably monitor compliance with the adopted DFCs?
  - How does aquifer monitoring by GMA members compare to their evaluation of potential DFCs?
- District Management Plans (36.1071(e)(5) from HB 2078)
  - How will GMA members monitor and track DFCs?
  - How will GMA members evaluate performance in achieving DFCs?

2021 Joint Planning
Median Remaining Available Drawdown

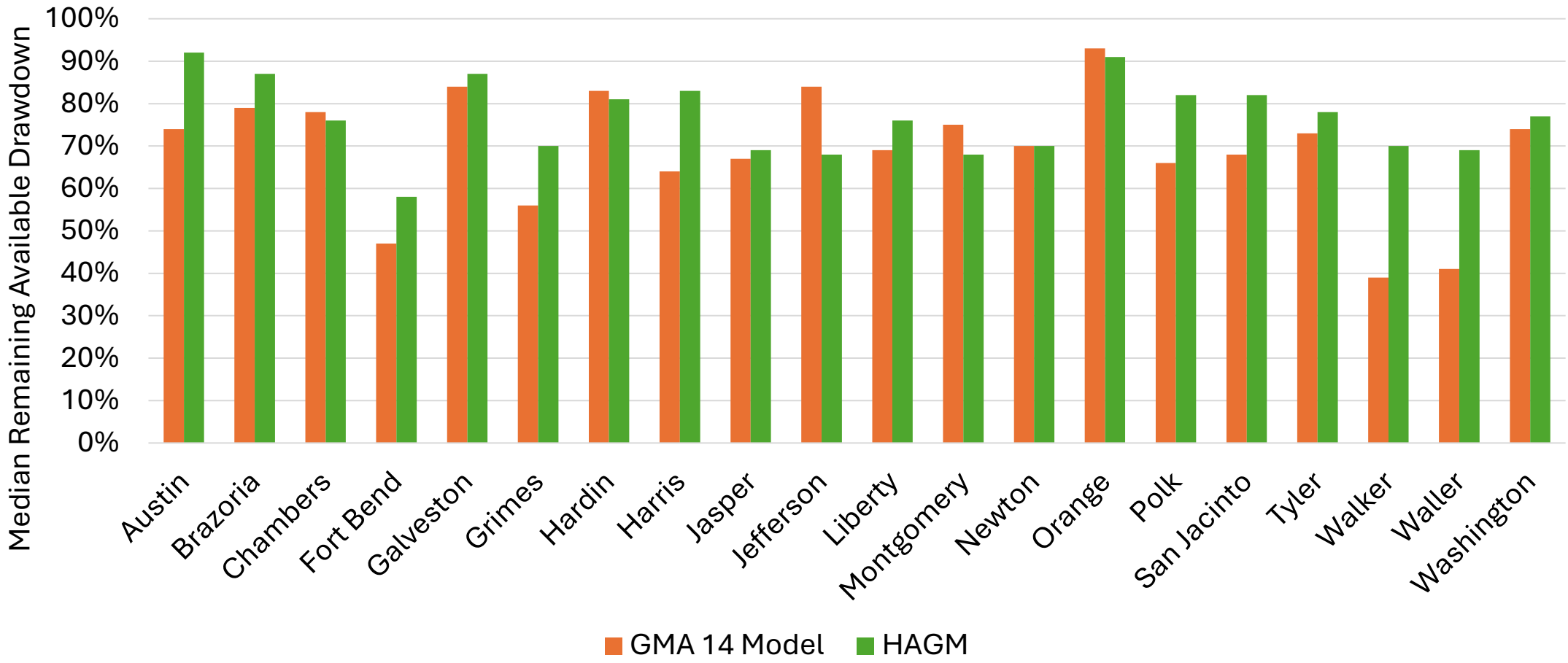




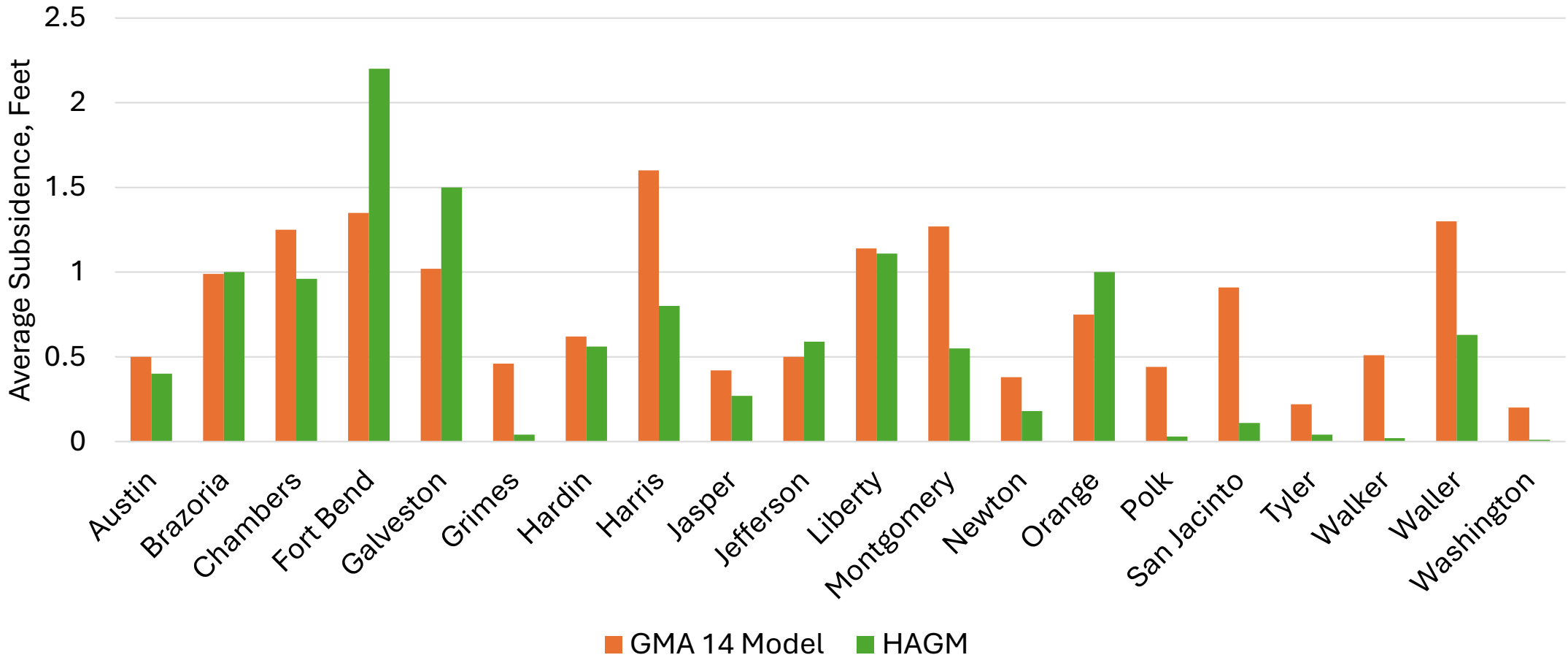
Results at 2021 Joint Planning MAG – 2009 - 2080

County	GMA 14 Model		HAGM	
	Additional Subsidence	Median Percent Rem. Available Drawdown	Additional Subsidence	Median Percent Rem. Available Drawdown
Austin	0.5	74%	0.4	92%
Brazoria	1.0	79%	1.0	87%
Chambers	1.3	78%	1.0	76%
Fort Bend	1.4	47%	2.2	58%
Galveston	1.0	84%	1.5	87%
Grimes	0.5	56%	0.0	70%
Hardin	0.6	83%	0.6	81%
Harris	1.6	64%	0.8	83%
Jasper	0.4	67%	0.3	69%
Jefferson	0.5	84%	0.6	68%
Liberty	1.1	69%	1.1	76%
Montgomery	1.3	75%	0.6	68%
Newton	0.4	70%	0.2	70%
Orange	0.8	93%	1.0	91%
Polk	0.4	66%	0.0	82%
San Jacinto	0.9	68%	0.1	82%
Tyler	0.2	73%	0.0	78%
Walker	0.5	39%	0.0	70%
Waller	1.3	41%	0.6	69%
Washington	0.2	74%	0.0	77%

Median Remaining Available Drawdown at 2021 Joint Planning MAG – 2009 - 2080



Average Additional Subsidence at 2021 Joint Planning MAG – 2009 - 2080



2026 Joint Planning Evaluation Approach

- Incorporate how you will monitor and track DFCs into your evaluation of potential DFCs

- Consider feasibility beyond model simulation results
  - What are real-world aquifer management goals?
  - What are real-world identified water needs?

- Consider GAM variability and error

Next Steps

- Investigate multiple evaluation approaches (such as those discussed during the April 30, 2025 meeting)
- Consider potential changes to DFCs based on Legislative requirements
- Review simulation results and possible evaluation approaches during next GMA 14 meeting
- Revisit all factors upon adoption of anticipated DFC(s) simulation

Additional Discussion

GMA 14 2026 Joint Planning
Feasibility of Achieving DFCs

September 17, 2025