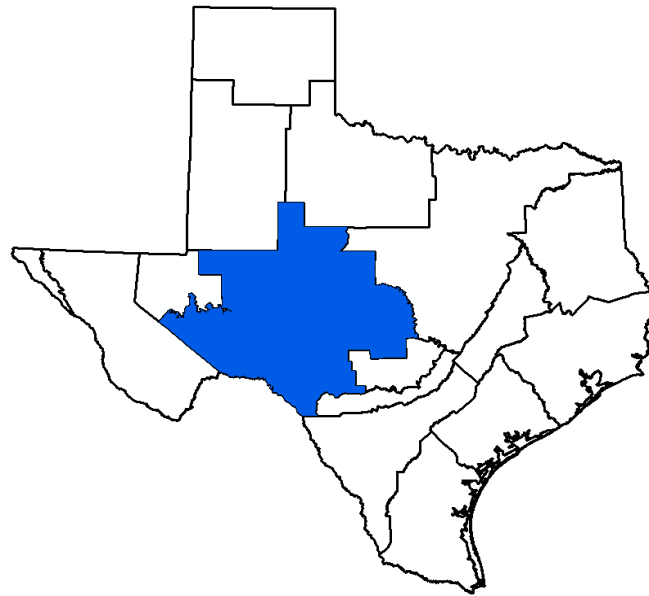
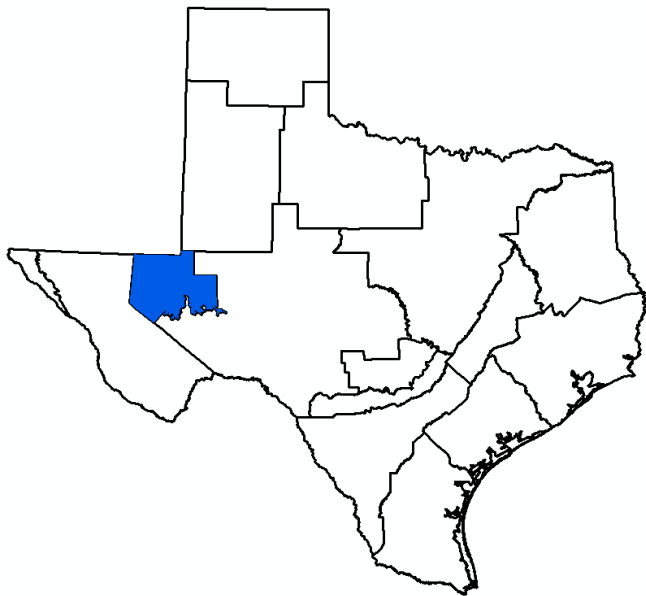


Agenda Item 6:
DFC Comparison
Updated Calibration of Alternative GAM
Updated GAM Simulations
Draft Explanatory Reports and Non-Relevant Documentation



Bill Hutchison
GMA 3 and 7 Joint Meeting
April 23, 2026

Topics

- DFC Comparison
- Updated Calibration of Alternative GAM
- Updated GAM Simulations
- Draft Explanatory Report and Non-Relevant Documentation

Topics

- **DFC Comparison**
- Updated Calibration of Alternative GAM
- Updated GAM Simulations
- Draft Explanatory Report and Non-Relevant Documentation

DFC Comparison (GMA 3)

- Complete
 - GMA 3 Technical Memorandum 25-01 (Draft - September 5, 2025)
 - Presented results at GMA 3 meeting on October 22, 2025
- Summary of Findings:
 - Capitan Reef Complex Aquifer
 - Recommended classification as not relevant for purposes of joint planning
 - Dockum Aquifer
 - Recommended classification as not relevant for purposes of joint planning
 - Edwards-Trinity (Plateau) and Pecos Valley Aquifers
 - Recommended update to Alternative GAM calibration (Pecos and Reeves counties)
 - Rustler Aquifer
 - Recommended classification as not relevant for purposes of joint planning

GMA 3 DFC Comparison

| County | Number of Baseline Wells | Number of Annual Data Points | Average Annual Data Points per Baseline Well | DFC in 2070 (ft) | Average Actual Drawdown (ft) | Average Simulated Drawdown (ft) | Difference (Simulated Drawdown minus Actual Drawdown, ft) |
|---------------|---------------------------------|-------------------------------------|---|-------------------------|-------------------------------------|--|--|
| Crane | 2 | 24 | 12.00 | 58 | -2.68 | 4.32 | 7.00 |
| Loving | 4 | 33 | 8.25 | 5 | -3.78 | 1.01 | 4.79 |
| Pecos | 17 | 139 | 8.18 | 14 | 20.57 | 2.73 | -17.84 |
| Reeves | 35 | 310 | 8.86 | 8 | 11.27 | 1.25 | -10.02 |
| Ward | 7 | 78 | 11.14 | 63 | -3.25 | 9.64 | 12.89 |
| Winkler | 9 | 103 | 11.44 | 161 | 2.11 | 27.55 | 25.44 |

DFC Comparison (Phase 1 - GMA 7) (1)

- Presented at GMA 7 meeting of August 14, 2025
- Summary of Findings
 - Capitan Reef Complex Aquifer
 - Recommended classification as not relevant for purposes of joint planning
 - Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifers
 - Recommended Phase 2 (GCD data and interpolated baselines)
 - Recommended update of Alternative GAM
 - Recommended update of MAG approach for Kinney County
 - Recommended classification of Val Verde County as not relevant for purposes of joint planning

DFC Comparison (Phase 1 - GMA 7) (2)

- Presented at GMA 7 meeting of August 14, 2025
- Summary of Findings
 - High Plains Aquifer System (Dockum and Ogallala Aquifers)
 - Recommended classification as not relevant for purposes of joint planning
 - Llano Uplift Aquifers
 - Marble Falls Aquifer: recommended keeping classification as not relevant for purposes of joint planning
 - Ellenburger-San Saba and Hickory Aquifers: recommended Phase 2 (GCD data and interpolated baselines)
 - Rustler Aquifer
 - Recommended classification as not relevant for purposes of joint planning

DFC Comparison (Phase 2 – GMA 7)

- Complete
 - GMA 7 Technical Memorandum 26-01 (Draft – April 16, 2026)
- Initial work presented at GMA 7 meeting of November 6, 2025
 - Updated with GCD data (Irion and Sterling counties)
- Work on Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifers complete
 - Updated with GCD data (Irion and Sterling counties – 11/6/2025 GMA 7 meeting)
 - Updated with baseline interpolations (TWDB data) – 3/18/2026 GMA 7 meeting
- Work on Llano Uplift (Hickory) complete
 - Updated with baseline interpolations (TWDB data)
 - No additional data from Hickory Aquifer available (City of San Angelo)

Drawdown Comparison: Edwards-Trinity (Plateau), Pecos Valley, Trinity Aquifers

| County | Data Source | Number of Actual Drawdown Measurements | Average Drawdown (ft - 2010 Base, 2011 to 2024 Data) | | Average Simulated minus Measured (ft) | DFC Drawdown (ft - 2010 to 2070) |
|---------------------------|-------------|--|--|-----------|---------------------------------------|----------------------------------|
| | | | Measured | Simulated | | |
| Coke | TWDB - Int | 7 | 5.04 | 0.09 | -4.95 | 0 |
| Concho | TWDB | 4 | 1.07 | 0.03 | -1.04 | NR |
| Crockett | TWDB | 239 | -0.15 | 3.10 | 3.25 | 10 |
| Ector | TWDB | 104 | -3.12 | 0.47 | 3.59 | 4 |
| Edwards | TWDB | 34 | 2.27 | 1.21 | -1.06 | 2 |
| Gillespie | TWDB | 435 | 5.10 | 2.25 | -2.84 | 5 |
| Glasscock | TWDB | 269 | 0.59 | 13.85 | 13.26 | 42 |
| Irion (Nearest Active) | GCD | 148 | 2.04 | 3.07 | 1.03 | 10 |
| Irion (Honor Grid) | GCD | 122 | 2.78 | 3.64 | 0.86 | 10 |
| Kimble | TWDB - Int | 130 | -1.02 | 0.55 | 1.57 | 1 |
| Menard | TWDB | 39 | -9.87 | 0.57 | 10.43 | 1 |
| Midland | TWDB | 33 | 1.67 | 2.02 | 0.35 | 12 |
| Nolan | TWDB | 11 | 9.37 | 0.00 | -9.37 | NR |
| Pecos | TWDB | 463 | 2.90 | 3.44 | 0.53 | 14 |
| Reagan | TWDB | 114 | 9.01 | 16.32 | 7.31 | 42 |
| Real | TWDB | 58 | 23.79 | 1.53 | -22.26 | 4 |
| Schleicher | TWDB | 169 | 1.62 | 4.29 | 2.67 | 8 |
| Sterling (Nearest Active) | GCD | 394 | 1.50 | 1.07 | -0.43 | 7 |
| Sterling (Honor Grid) | GCD | 141 | 1.87 | 2.33 | 0.46 | 7 |
| Sutton | TWDB | 292 | 0.38 | 2.95 | 2.58 | 6 |
| Taylor | TWDB - Int | 7 | 0.14 | 0.00 | -0.14 | 0 |
| Terrell | TWDB | 93 | 10.75 | 1.65 | -9.10 | 2 |
| TomGreen | TWDB | 2 | -2.23 | 0.42 | 2.64 | NR |
| Upton | TWDB | 4 | 0.44 | 2.06 | 1.63 | 20 |
| Uvalde | | | No Suitable Wells | | | 2 |

TWDB = TWDB Groundwater Database

TWDB Int = Interpolated Baseline Estimated

GCD = GCD Data (not in TWDB Database)

NR = County is Not Relevant for Purposes of Joint Planning

Hydrograph of Average Drawdown (Actual and Simulated) GMA 7 - Edwards-Trinity (Plateau), Pecos Valley, Trinity Aquifer

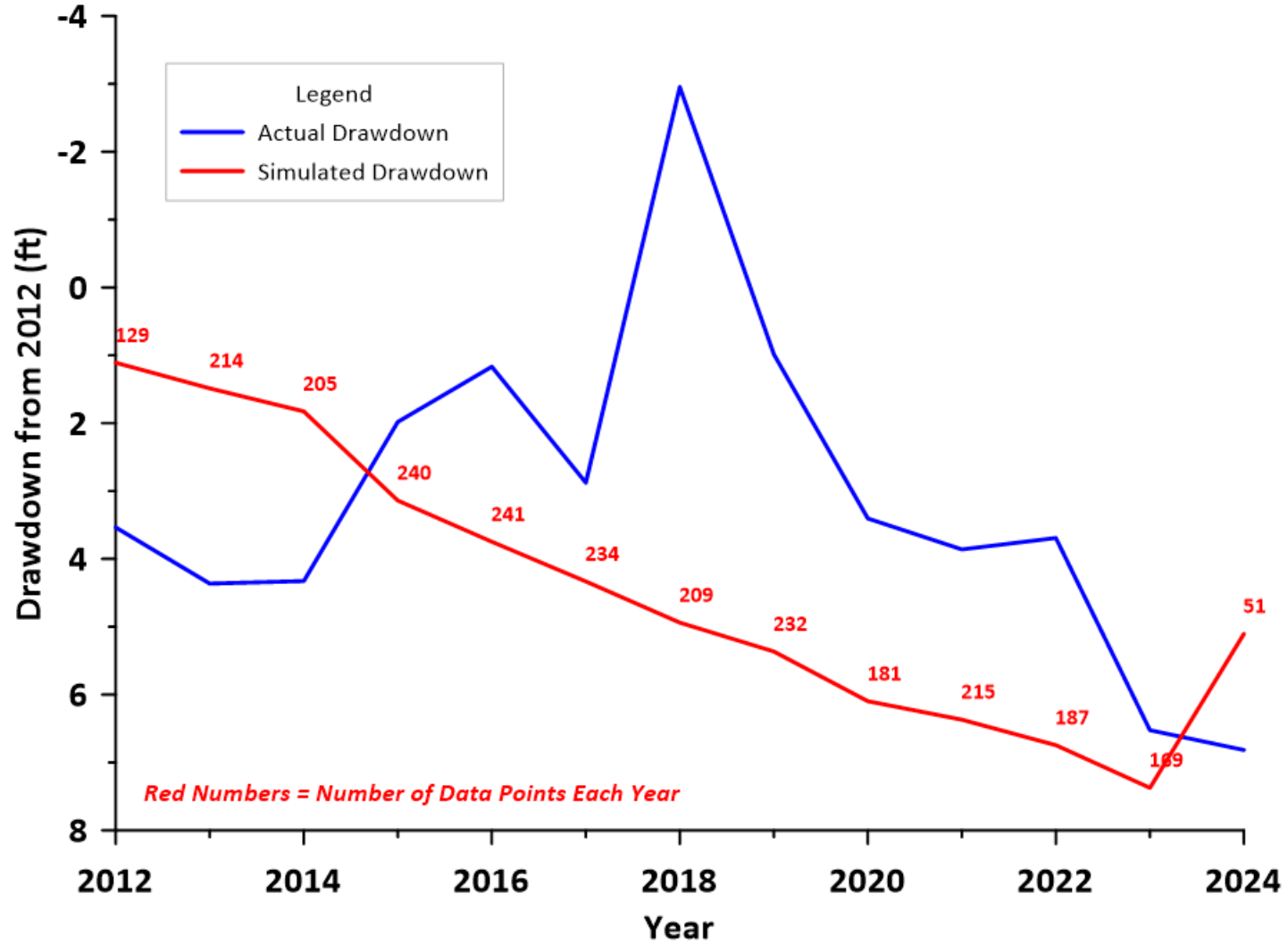


Table 10. Average Measured and Simulated Drawdown by GCD - Ellenburger-San Saba Aquifer

| Groundwater Conservation District (GCD) | Number of Actual Drawdown Measurements | Average Drawdown ft - 2010 Base, 2011 to 2024 Data) | | Average Simulated minus Measured (ft) |
|---|--|---|-----------|---------------------------------------|
| | | Measured | Simulated | |
| Hickory UWCD No. 1 | 47 | 10.72 | 2.90 | -7.82 |
| Hill Country UWCD | 429 | 5.28 | 2.48 | -2.80 |
| Menard UWD | 11 | 10.07 | 22.86 | 12.80 |
| No GCD (Llano) | 12 | 2.50 | 0.00 | -2.50 |
| No GCD (San Saba) | 22 | 1.15 | -1.82 | -2.97 |

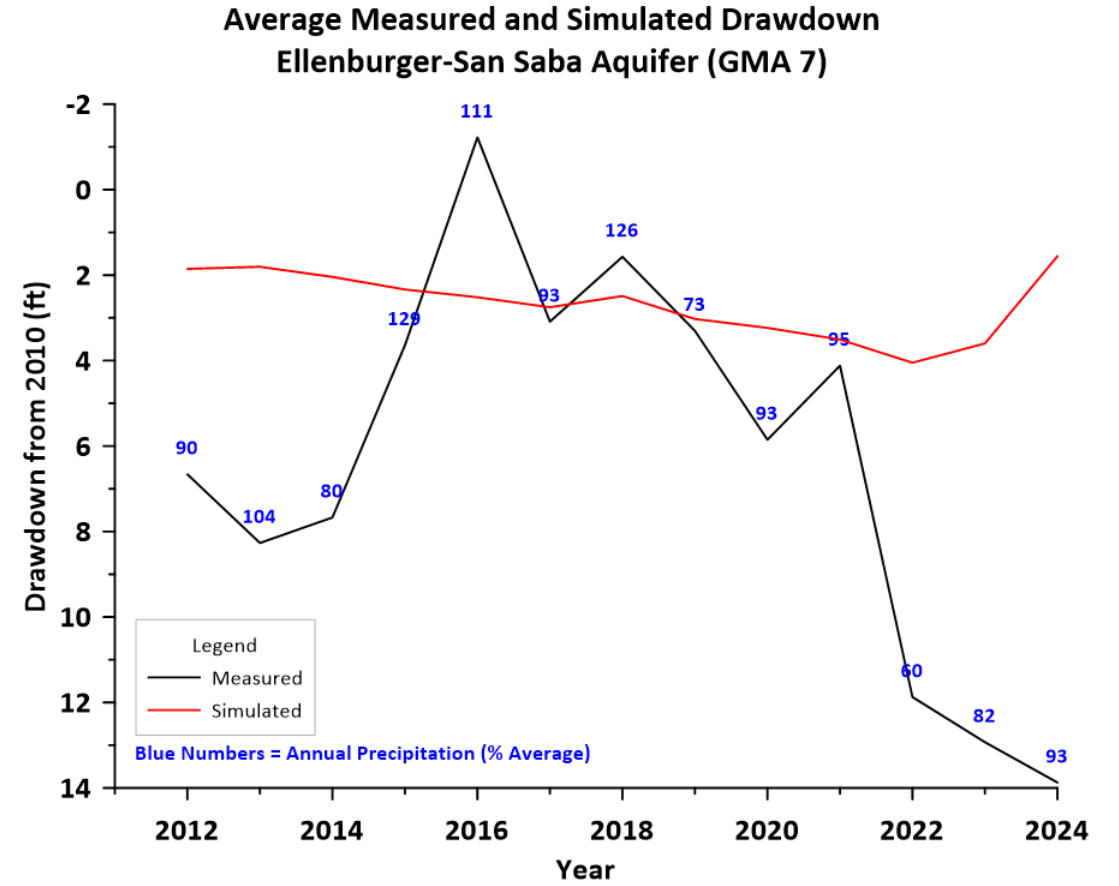
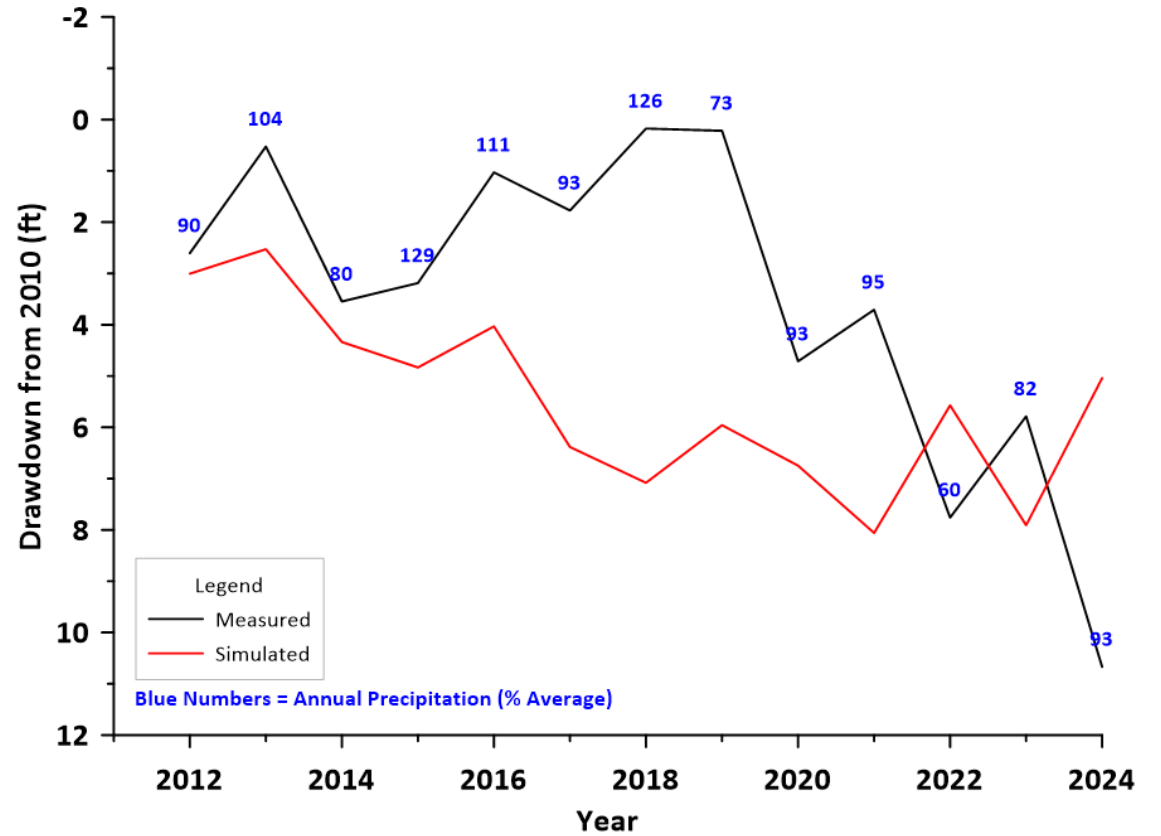


Table 11. Average Measured and Simulated Drawdown by GCD - Hickory Aquifer

| Groundwater Conservation District (GCD) | Number of Actual Drawdown Measurements | Average Drawdown ft - 2010 Base, 2011 to 2024 Data) | | Average Simulated minus Measured (ft) |
|---|--|---|-----------|---------------------------------------|
| | | Measured | Simulated | |
| Hickory UWCD No. 1 | 291 | 4.86 | 7.55 | 2.69 |
| Hill Country UWCD | 177 | 0.34 | 4.54 | 4.20 |
| Menard UWD | 0 | NA | NA | NA |
| No GCD (Llano) | 23 | 3.41 | -2.49 | -5.91 |
| No GCD (San Saba) | 5 | 2.50 | -0.50 | -3.00 |

Average Measured and Simulated Drawdown Hickory Aquifer (GMA 7)

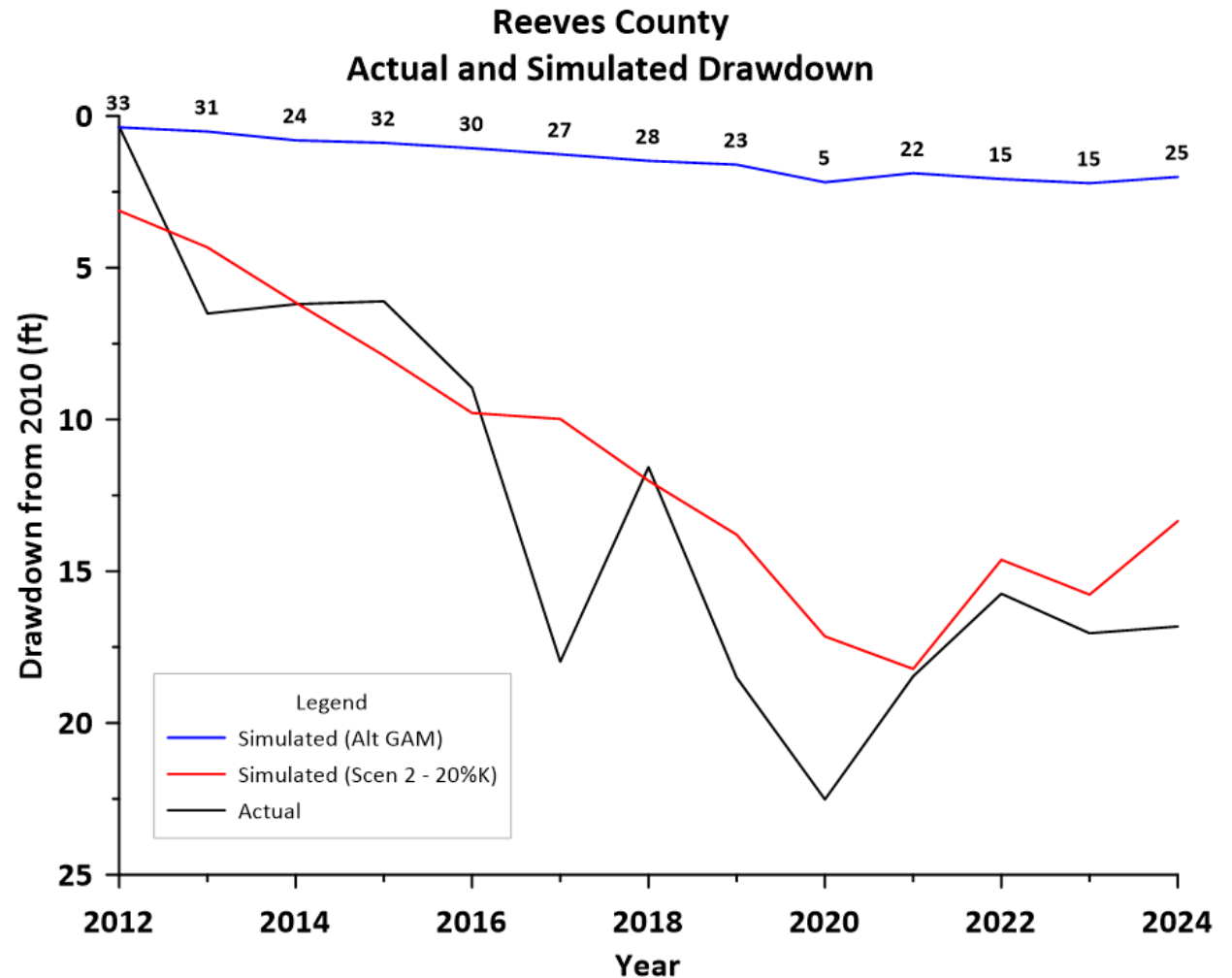


Topics

- DFC Comparison
- **Updated Calibration of Alternative GAM**
- Updated GAM Simulations
- Draft Explanatory Report and Non-Relevant Documentation

Updated Calibration of Alternative GAM (GMA 3 and GMA 7)

- Complete
 - Documentation Report (April 16, 2026)



Topics

- DFC Comparison
- Updated Calibration of Alternative GAM
- **Updated GAM Simulations**
- Draft Explanatory Report and Non-Relevant Documentation

Updated GAM Simulations (Llano Uplift GAM - GMA 7)

- Based on input received in 2016
 - Essentially no increase in pumping from calibration period
- Scenario 26.1 completed
 - TM 26-02 – April 17, 2026
- Same input pumping as past rounds of joint planning
 - Simulation extended to 2080

Past Pumping and Current MAG

(Previously Presented at Meeting of March 18, 2026)

Ellenburger-San Saba Aquifer

| County | Maximum Pumping (AF/yr) before 2010 (GAM) | Pumping (AF/yr) in 2023 (TWDB) | MAG (AF/yr) in 2070 |
|-----------|---|--------------------------------|---------------------|
| Gillespie | 6,463 | 3,735 | 6,294 |
| Kimble | 535 | 8 | 521 |
| Mason | 3,863 | 79 | 3,237 |
| McCulloch | 4,492 | 159 | 4,364 |
| Menard | 309 | 5 | 309 |
| San Saba | 8,391 | 2,080 | 7,890 |

Hickory Aquifer

| County | Maximum Pumping (AF/yr) before 2010 (GAM) | Pumping (AF/yr) in 2023 (TWDB) | MAG (AF/yr) in 2070 |
|-----------|---|--------------------------------|---------------------|
| Concho | 27 | 368 | 27 |
| Gillespie | 1,814 | 694 | 1,751 |
| Kimble | 165 | 44 | 165 |
| Mason | 15,066 | 7,492 | 13,212 |
| McCulloch | 24,468 | 5,824 | 24,377 |
| Menard | 2,725 | 967 | 2,725 |
| San Saba | 7,751 | 4,302 | 7,680 |

Scenario 26.1

Llano Uplift GAM Average Drawdown

Ellenburger-San Saba Aquifer

| County | Current DFC (ft in 2010 to 2070, adopted in 2021) | Draw down (ft, 2010 to Year Listed) | | | | | |
|-----------|--|-------------------------------------|------|------|------|------|------|
| | | 2030 | 2040 | 2050 | 2060 | 2070 | 2080 |
| Gillespie | 8 | 5 | 6 | 7 | 7 | 8 | 8 |
| Kimble | 18 | 11 | 14 | 15 | 17 | 18 | 19 |
| Mason | 14 | 9 | 11 | 12 | 13 | 14 | 14 |
| McCulloch | 29 | 28 | 28 | 28 | 28 | 29 | 29 |
| Menard | 46 | 40 | 42 | 44 | 45 | 46 | 47 |
| SanSaba | 5 | 5 | 5 | 5 | 5 | 5 | 5 |

Hickory Aquifer

| County | Current DFC (ft in 2010 to 2070, adopted in 2021) | Draw down (ft, 2010 to Year Listed) | | | | | |
|-----------|--|-------------------------------------|------|------|------|------|------|
| | | 2030 | 2040 | 2050 | 2060 | 2070 | 2080 |
| Concho | 53 | 51 | 52 | 52 | 53 | 53 | 53 |
| Gillespie | 9 | 5 | 7 | 7 | 8 | 9 | 9 |
| Kimble | 18 | 11 | 14 | 15 | 17 | 18 | 19 |
| Mason | 17 | 11 | 13 | 14 | 16 | 17 | 18 |
| McCulloch | 29 | 28 | 28 | 28 | 29 | 29 | 29 |
| Menard | 46 | 41 | 42 | 44 | 45 | 46 | 47 |
| SanSaba | 6 | 5 | 5 | 6 | 6 | 6 | 6 |

Updated GAM Simulations (ETP - GMA 3 and GMA 7)

- Updated Alternative GAM (Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifers)
- Three “initial” scenarios
 - Scenario 26.1 (same pumping as last round of joint planning)
 - Scenario 26.2 (Schleicher County pumping = 15,640 AF/yr)
 - Scenario 26.3 (Schleicher County pumping = 17,254 AF/yr)
- Set up to run more scenarios today

Edwards-Trinity (Plateau) and Pecos Valley Aquifers –

All Counties (GMA 3)

| County | Pumping (AF/yr) in 2005 (GAM) | Pumping (AF/yr) in 2023 (TWDB) | MAG (AF/yr) in 2070 |
|-----------------|-------------------------------------|--------------------------------------|------------------------|
| Crane | 1,600 | 1,847 | 4,991 |
| Loving | 98 | 5,347 | 2,982 |
| Pecos (3 and 7) | 178,157 | 114,749 | 240,208 |
| Reeves | 174,715 | 67,402 | 189,744 |
| Ward | 7,016 | 26,407 | 49,976 |
| Winkler | 1,914 | 16,774 | 49,949 |

Previously Presented at Meeting of March 18, 2026

**Edwards-Trinity (Plateau),
Pecos Valley, and Trinity
Aquifers –
Relevant Counties (GMA 7)**

| County | Pumping (AF/yr) in 2005 (GAM) | Pumping (AF/yr) in 2023 (TWDB) | MAG (AF/yr) in 2070 |
|-----------------|--|---|--------------------------------|
| Coke | 202 | 188 | 997 |
| Crockett | 4,636 | 1,864 | 5,447 |
| Ector | 4,788 | 3,632 | 5,542 |
| Edwards | 3,002 | 820 | 5,676 |
| Gillespie | 3,211 | 2,870 | 4,979 |
| Glasscock | 40,556 | 34,970 | 65,186 |
| Irion | 2,075 | 1,153 | 3,289 |
| Kimble | 847 | 494 | 1,386 |
| Menard | 1,005 | 561 | 2,597 |
| Midland | 11,970 | 7,908 | 23,233 |
| Pecos (3 and 7) | 178,157 | 114,749 | 240,208 |
| Reagan | 40,576 | 23,508 | 68,233 |
| Real | 3,500 | 749 | 7,523 |
| Schelicher | 4,209 | 4,015 | 8,034 |
| Sterling | 2,062 | 1,170 | 2,495 |
| Sutton | 3,794 | 2,358 | 6,410 |
| Taylor | 300 | 56 | 489 |
| Terrell | 998 | 553 | 1,420 |
| Upton | 13,951 | 7,783 | 22,369 |
| Uvalde | 1,801 | 296 | 1,993 |

Previously Presented at Meeting of March 18, 2026

GMA 3 Results

Tech Memo 26-01 (April 18, 2026)

Pumping

| County | Current MAG (AF/yr in 2070, adopted in 2021) | Pumping in 2080 (AF/yr) |
|---------|--|-----------------------------------|
| | | Scenarios 26.1, 26.2, and 26.3 |
| Crane | 4,991 | 4,991 |
| Loving | 2,982 | 2,982 |
| Pecos | 122,899 | 122,899 |
| Reeves | 189,744 | 189,744 |
| Ward | 49,976 | 49,976 |
| Winkler | 49,949 | 49,949 |

Average Drawdown

Scenarios 26.1, 26.2, and 26.3

| County | Current DFC (ft in 2010 to 2070, adopted in 2021) | Average Drawdown (ft - 2010 to Year Listed) | | | | | |
|---------|---|---|------|------|------|------|------|
| | | 2030 | 2040 | 2050 | 2060 | 2070 | 2080 |
| Crane | 58 | 22 | 33 | 43 | 53 | 62 | 72 |
| Loving | 5 | 3 | 4 | 5 | 5 | 5 | 6 |
| Pecos | 14 | 38 | 52 | 64 | 75 | 85 | 94 |
| Reeves | 8 | 27 | 38 | 48 | 57 | 65 | 73 |
| Ward | 63 | 23 | 35 | 46 | 58 | 70 | 81 |
| Winkler | 161 | 53 | 81 | 108 | 135 | 162 | 189 |

GMA 7 Results

Tech Memo 26-03 (April 18, 2026)

Pumping

| County | Current MAG (AF/yr in 2070, adopted in 2021) | Pumping in 2080 (AF/yr) | | |
|------------|--|-------------------------|---------------|---------------|
| | | Scenario 26.1 | Scenario 26.2 | Scenario 26.3 |
| Coke | 997 | 997 | 997 | 997 |
| Crockett | 5,447 | 5,447 | 5,447 | 5,447 |
| Ector | 5,542 | 5,542 | 5,542 | 5,542 |
| Edwards | 5,676 | 5,676 | 5,676 | 5,676 |
| Gillespie | 4,979 | 4,979 | 4,979 | 4,979 |
| Glasscock | 65,186 | 65,186 | 65,186 | 65,186 |
| Iron | 3,289 | 3,289 | 3,289 | 3,289 |
| Kimble | 1,386 | 1,387 | 1,387 | 1,387 |
| Menard | 2,597 | 2,597 | 2,597 | 2,597 |
| Midland | 23,233 | 23,232 | 23,232 | 23,232 |
| Pecos | 117,309 | 117,309 | 117,309 | 117,309 |
| Reagan | 68,233 | 68,233 | 68,233 | 68,233 |
| Real | 7,523 | 7,524 | 7,524 | 7,524 |
| Schleicher | 8,034 | 8,034 | 15,639 | 17,344 |
| Sterling | 2,495 | 2,495 | 2,495 | 2,495 |
| Sutton | 6,410 | 6,411 | 6,411 | 6,411 |
| Taylor | 489 | 489 | 489 | 489 |
| Terrell | 1,420 | 1,420 | 1,420 | 1,420 |
| Upton | 22,369 | 22,369 | 22,369 | 22,369 |
| Uvalde | 1,993 | 1,993 | 1,993 | 1,993 |

Average Drawdown

| County | Current DFC (ft in 2010 to 2070, adopted in 2021) | Average Drawdown 2010 to 2080 (ft) | | |
|------------|--|------------------------------------|------------------|------------------|
| | | Scenario 26.1 | Scenario 26.2 | Scenario 26.3 |
| Coke | 0 | 0 | 0 | 0 |
| Crockett | 10 | 11 | 13 | 14 |
| Ector | 4 | 5 | 5 | 5 |
| Edwards | 2 | 2 | 2 | 2 |
| Gillespie | 5 | 6 | 6 | 6 |
| Glasscock | 42 | 48 | 48 | 48 |
| Iron | 10 | 12 | 14 | 14 |
| Kimble | 1 | 1 | 1 | 1 |
| Menard | 1 | 1 | 1 | 1 |
| Midland | 12 | 15 | 15 | 15 |
| Pecos | 14 | 16 | 16 | 16 |
| Reagan | 42 | 45 | 47 | 47 |
| Real | 4 | 4 | 4 | 4 |
| Schleicher | 8 | 9 | 12 | 13 |
| Sterling | 7 | 8 | 8 | 8 |
| Sutton | 6 | 7 | 9 | 10 |
| Taylor | 0 | 0 | 0 | 0 |
| Terrell | 2 | 3 | 3 | 3 |
| Upton | 20 | 23 | 24 | 24 |
| Uvalde | 2 | 2 | 2 | 2 |

Note: Decadal Average Drawdown included in TM 26-03 (HB 2078 Requirement)

Topics

- DFC Comparison
- Updated Calibration of Alternative GAM
- Updated GAM Simulations
- **Draft Explanatory Report and Non-Relevant Documentation**

Draft Explanatory Reports

- GMA 3
 - Edwards-Trinity (Plateau) and Pecos Valley Aquifers
- GMA 7
 - Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifers
 - Llano Uplift Aquifers
- To be completed once a proposed DFC is adopted
 - Statute does not require them until end of process
 - To be completed by end of June

Non-Relevant Documentation – GMA 3

- Existing documentation for:
 - Igneous Aquifer
 - Ogallala Aquifer
- New documentation for:
 - Capitan Reef Complex Aquifer
 - Dockum Aquifer
 - Rustler Aquifer
- To be completed by end of June

Non-Relevant Documentation – GMA 7

- Existing documentation for:
 - Blaine Aquifer
 - Cross Timbers Aquifer
 - Igneous Aquifer
 - Lipan Aquifer
 - Seymour Aquifer
- New documentation for:
 - Capitan Reef Complex Aquifer
 - Dockum Aquifer
 - Ogallala Aquifer
 - Rustler Aquifer
- To be completed by end of June

Workplan/Schedule/Budget

- GMA 3 Budget and Invoice
- GMA 7 Budget and Invoice

Current Budget Progress (GMA 3)

GMA 3 Support Task List and Invoicing Schedule

William R. Hutchison, Ph.D, P.E., P.G.

Invoice 3 (4/24/2026)

| Task No. | Task | Number | Unit Cost | Total Budget | Past Invoice Amount | Current Invoice Amount | Remaining Budget | Invoice Date |
|--------------|---|--------|-----------|-----------------|---------------------|------------------------|------------------|--------------|
| 1 | Meeting | 4 | \$2,500 | \$10,000 | \$5,000 | \$2,500 | \$2,500 | 3 of 4 |
| 2 | DFC Comparison Analysis | 1 | \$6,000 | \$6,000 | \$6,000 | \$0 | \$0 | 10/24/2025 |
| 3 | Updated Alternative GAM | 1 | \$6,000 | \$6,000 | \$0 | \$6,000 | \$0 | 4/24/2026 |
| 4 | GAM Simulation and Tech Memos | 1 | \$6,000 | \$6,000 | \$0 | \$6,000 | \$0 | 4/24/2026 |
| 5 | Draft Explanatory Report and Not Relevant Documentation | 1 | \$6,000 | \$6,000 | \$0 | \$0 | \$6,000 | |
| 6 | Respond to Comments and Finalize | 1 | \$6,000 | \$6,000 | \$0 | \$0 | \$6,000 | |
| Total | | | | \$40,000 | \$11,000 | \$14,500 | \$14,500 | |

Current Budget Progress (GMA 7)

GMA 7 Support Task List and Invoicing Schedule
 William R. Hutchison, Ph.D, P.E., P.G.

Invoice 4 (3/23/2025)

| Task No. | Task | Number | Unit Cost | Total Budget | Past Invoice Amount | Current Invoice Amount | Remaining Budget | Invoice Date |
|----------|---|--------|-----------|--------------|---------------------|------------------------|------------------|----------------|
| 1 | Meetings | 5 | \$2,500 | \$12,500 | \$7,500 | \$2,500 | \$2,500 | 4 of 5 |
| 2a | DFC Comparison (Phase 1) | 1 | \$4,000 | \$4,000 | \$4,000 | \$0 | \$0 | 8/14/2025 |
| 2b | DFC Comparison (Phase 2) | 1 | \$6,000 | \$6,000 | \$0 | \$6,000 | \$0 | 4/23/2026 |
| 2c | DFC Comparison Report | 1 | \$4,000 | \$4,000 | \$0 | \$4,000 | \$0 | 4/23/2026 |
| 3 | Update Alternative GAM | 1 | \$6,000 | \$6,000 | \$0 | \$6,000 | \$0 | 4/23/2026 |
| 4 | GAM Simulations and Tech Memos | 4 | \$6,000 | \$24,000 | \$0 | \$12,000 | \$12,000 | 2 on 4/23/2026 |
| 5 | Draft Explanatory Report and Not Relevant Documentation | 3 | \$6,000 | \$18,000 | \$0 | \$0 | \$18,000 | |
| 6 | Respond to Comments and Finalize | 1 | \$6,000 | \$6,000 | \$0 | \$0 | \$6,000 | |

Total

\$80,500

\$11,500

\$30,500

\$38,500

Questions/Discussion

Bill Hutchison

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