"GMA 12 DFC Panel" DFC Variations on a State-Wide Scale





Caldwell Civic Center August 11, 2016 Presented by: W. John Seifert, Jr., P.E. Principal LBG-Guyton Associates



Senate Bill 660 2011 State Legislative Session

"Desired Future Condition" means a quantitative description, adopted in accordance with Section 36.108, of the desired future condition of the groundwater resources in a management area at one or more specified future times.



Senate Bill 660 2011 State Legislative Session

Section 36.063 (d-1)

- (d-1) The districts may establish different desired future conditions for:
 - (1) Each aquifer, subdivision of an aquifer, or geologic strata located in whole or in part within the boundaries of the management area; or
 - (2) Each geographic area overlying an aquifer in whole or in part or subdivision of an aquifer within the boundaries of the management area.

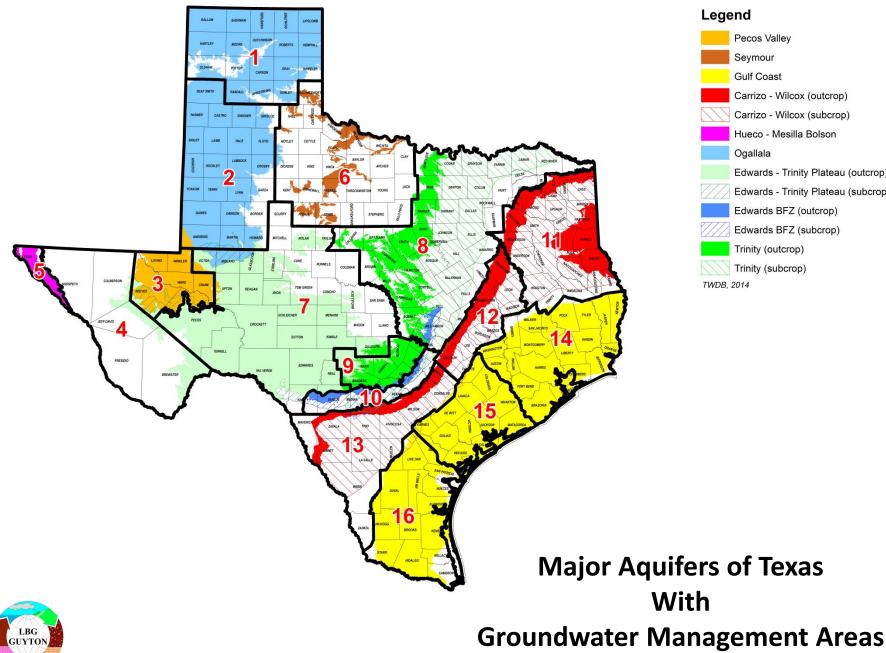


2010 GMA Planning

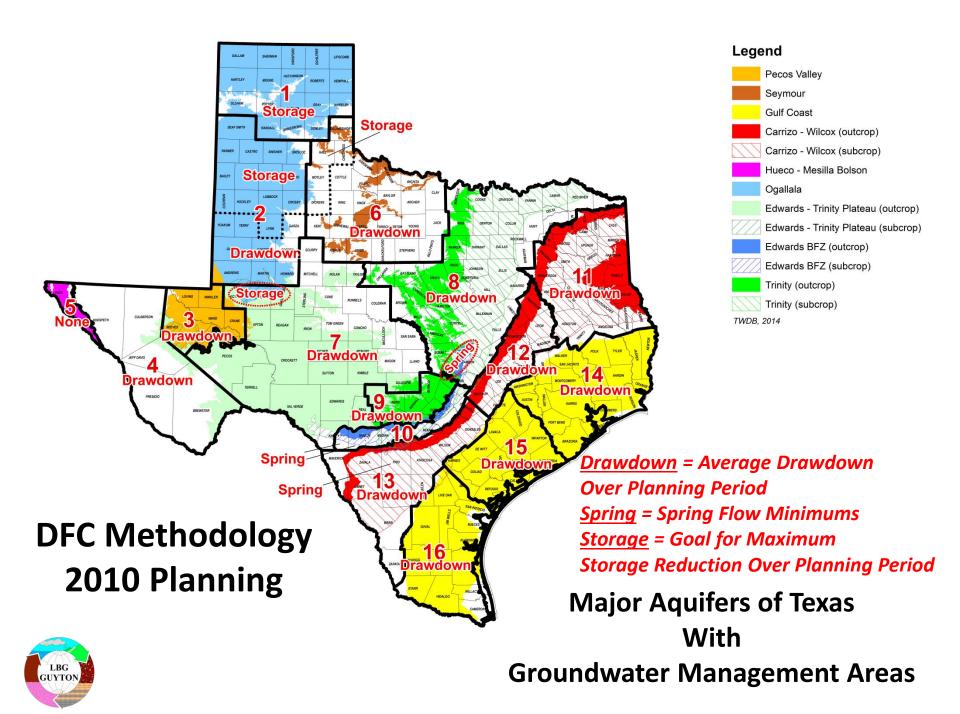
State-wide Total DFCs	415
DFCs in GMAs 8 and 14	227
DFCs in Fourteen Remaining GMAs	188

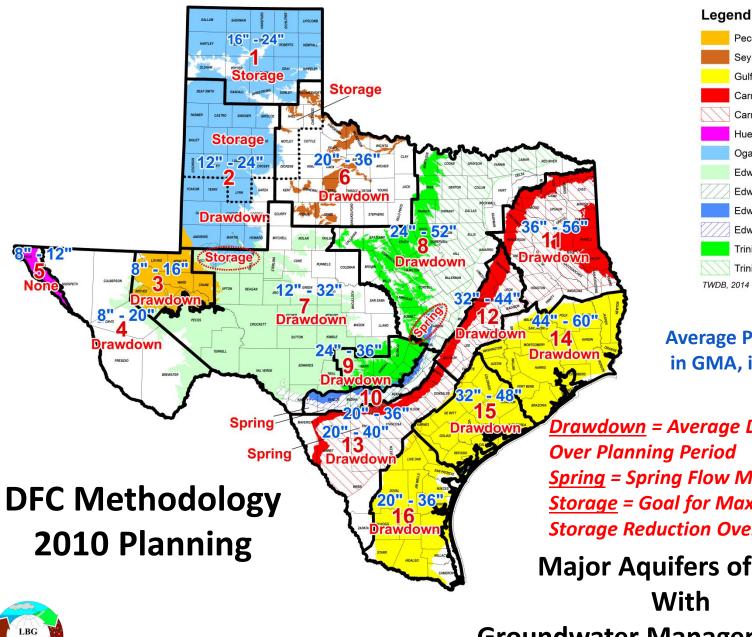
DFCs vary and are normally based on an amount of storage reduction over time, average drawdown over time and/or maintenance of a rate of spring flow





Pecos Valley Seymour Gulf Coast Carrizo - Wilcox (outcrop) Carrizo - Wilcox (subcrop) Hueco - Mesilla Bolson Ogallala Edwards - Trinity Plateau (outcrop) Edwards - Trinity Plateau (subcrop) Edwards BFZ (outcrop) Edwards BFZ (subcrop) Trinity (outcrop) Trinity (subcrop)





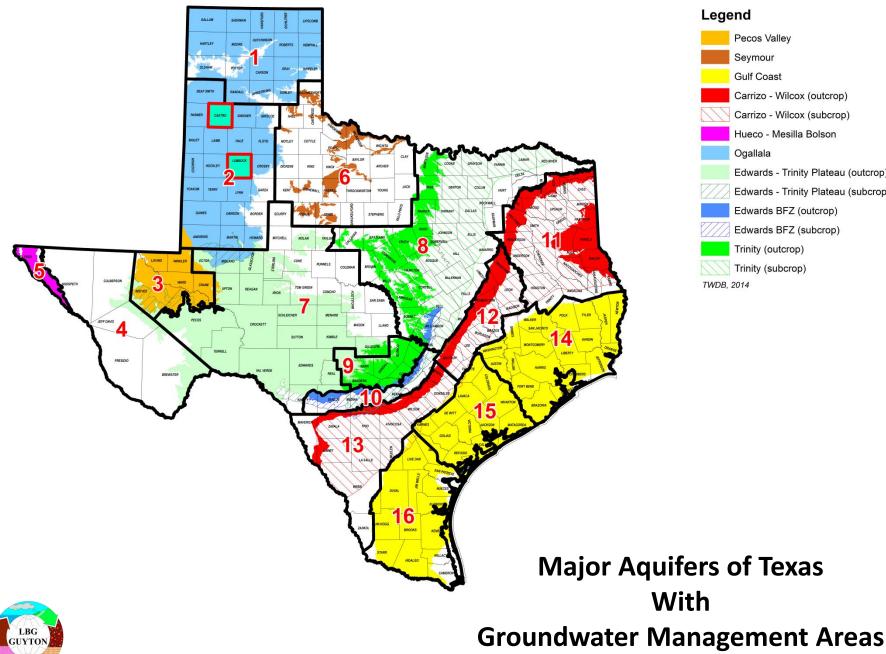
GUYTON



Average Precipitation in GMA, inches

Drawdown = Average Drawdown **Over Planning Period** <u>Spring</u> = Spring Flow Minimums Storage = Goal for Maximum Storage Reduction Over Planning Period

Major Aquifers of Texas Groundwater Management Areas



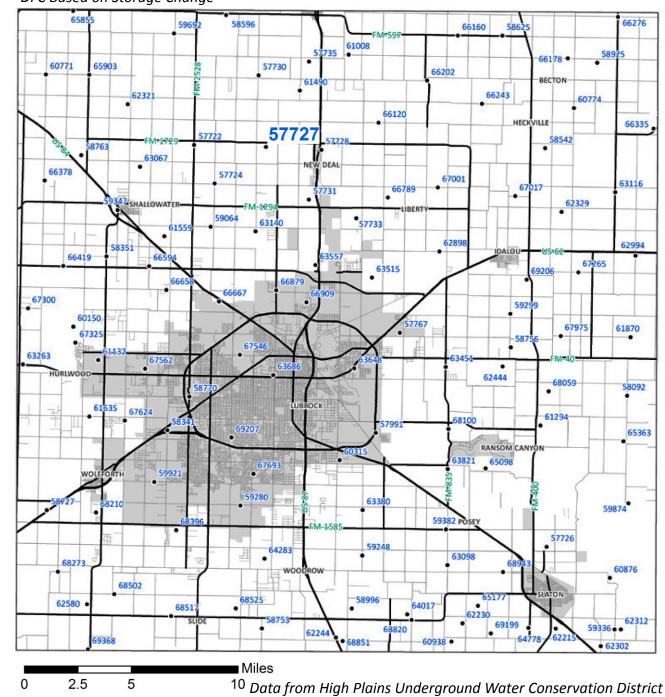


DFC Based on Storage Change

Lubbock County Observation Well Locations

57727 = Well Designator



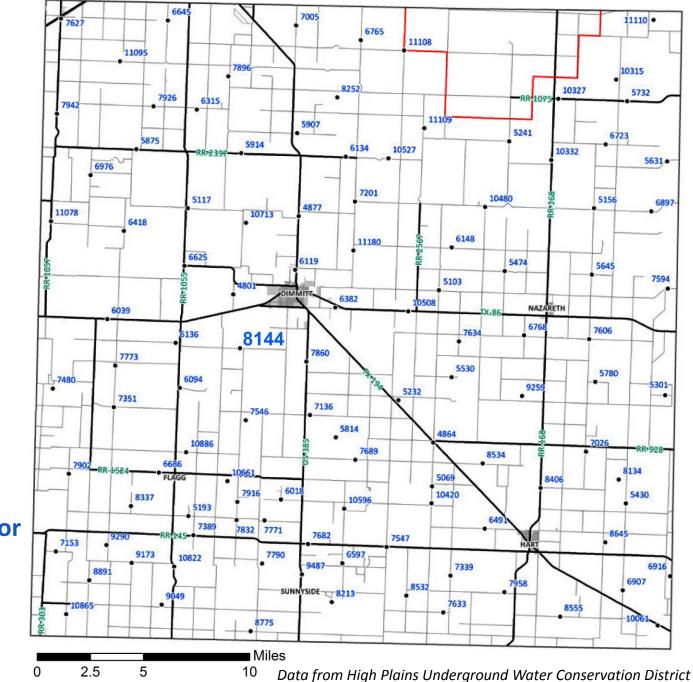


DFC Based on Storage Change

Castro County Observation Well Locations

8144 = Well Designator





Summary

- GMA planning occurs at least about every five years as does regional water planning
- State allows for flexibility in DFC matrix as there are various types of aquifers in the state and this was recognized in developing HB 1763 and SB 660



