Region A Water Plan - Documentation and Resources to address 36.108 D for GMA-1 Joint Planning.

36.108 D Requirements	District Resources
(1) aquifer uses or conditions within the management area, including conditions that differ substantially from one geographic area to another;	*P.1-16 to 24 General Discussion of Aquifers (General)* *P. 3-6 Storage in Ogallala by County (Geographic)* *P. 3-7 Available Supply in Ogallala by County (Geographic)* *P. 3-9/11 Seymour/Blaine/Dockum (Geographic)* *P. 3-33 Aquifer Locations (Geographic)* *P. 3-34 Ogallala Saturated Thickness (Conditions)* *P. 3-32 Ogallala Uses (USE)* *P. 3-35 Ogallala Demand by County (USE)* *P.3-40to42 Supply vs. Demand Charts (USE & Condition) – will need some extrapolation to separate sources* *P. 3-43to45 Supply vs. Demand Charts by County (Use & Condition) – will need extrapolation to separate sources* *P. 4-45/46 Irrigation Shortages (Use differences within region)* *P.5-7/8 Ogallala Aquifer Quality (Quality) – C1 Concerns all in 50% areas* *P.5-11 Nitrate Distribution in Ogallala (Quality)* *P.1-50 Water Supply Threats* *Appendix F – Update Northern Ogallala GAM*
(2) the water supply needs and water management strategies included in the state water plan;	*P. 1-49 Threats to Water Supplies* *P 3-2 Use of DFCs in developing MAG & 2011 Plan* *P 3-3 Use of DFC in 2011 Plan (40,50,80)* *P 3-39 Unallocated Supplies in PWPG* ***P 3-39to42 Supply vs Demand – Deficits identified*** *P 3-43to45 Deficits by county* *P 3-46/47 Shortages by county and type* *Ch.4 – All Addresses strategies related to shortages based on 40,50,80 DFC* *P 6-10 (Hemphill), p-12 (NP), cite DFC in local plans* *P. 7-5 Impacts of Water Management Strategies* *Appendix H – Cost Estimates (Strategy Costs)*
(3) hydrological conditions, including for each aquifer in the management area the total estimated recoverable storage as provided by the executive administrator, and the average annual recharge, inflows, and discharge;	*ES-9 – Ogallala Recharge (Recharge Summary)* *P. 1-16 Ogallala Recharge (Recharge Summary)* *P. 1-20/21 Ogallala Recharge (Recharge History)* *P. 1-21/22 Seymour Recharge (Recharge History)* *P. 1-22 Dockum Recharge (Minimal Recharge)*

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	P. 1-23 Rita Blanca Recharge (Recharge with Ogallala) *P. 1-44 Soils (Recharge)* *P. 3-3 Seymour & Blaine Recharge* *P. 3-6 Storage in Ogallala by County (Geographic)* *P. 3-7 Available Supply in Ogallala by County (Geographic)* *P. 3-9/11 Seymour/Blaine/Dockum (Geographic)* *P. 3-13 Recharge Citations* *P. 3-20 Palo Duro Outflow* *P. 3-30 Summary of water supply* *Groundwater Recharge - Central High Plains– BEG09* *Appendix E – Summary of Special Study*
(4) other environmental impacts, including impacts on spring flow and other interactions between groundwater and surface water;	*ES-7/8 Environmental Factors Considered in Strategy Dev.* *1-24 Brief Notation on Springs* *1-38 Natural Region* *1-45/46 Playa Lake Discussion* *1-58 Strategies considered Environmental Impact* *1-42&44 Geology & Soils* *1-46/47/48 Wetlands & Aquatic Resources* *1-49 Discussion of Threats (Drought & Contamination)* *4-4/5 Environmental Impact of Strategies Considered* *4-6/7 Environmental Impact of Strategies Considered* *4-12 No Environmental Impact of Strategies (whole ch.)* *7-2 PWPG considered Environmental Impacts* *7-5 Strategy Impacts – Salinity of Surface Water* *7-11 Table*
(5) the impact on subsidence;	*6-9 Role of GCDs to prevent subsidence* *6-13 – High Plains Addresses Subsidence*
(6) socioeconomic impacts reasonably expected to occur;	*1-11/12 – Economic Activities In the Region Summary* *1-39 – Citation of TSSWCB on brush mgmt. & economics* *1-53/54 – Agriculture importance to regional economy* *2-14 – Economic Considerations in evaluating demand* *2-18 – Economic considerations in ag demand* *4-12 – No Social or Economic Impact of Strategies (all ch)* *4-75 – Economic Impact of not meeting strategies* *Appendix I – Region A Socioeconomic Impact Report*

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(7) the impact on the interests and rights in private property, including ownership and the rights of management area landowners and their lessees and assigns in groundwater as recognized under Section 36.002;	*1-24 Springs and Private Property Noted* *6-10 – Hemphill County UWCD* *6-11 – North Plains GCD* *6-13 – High Plains UWCD* *6-14 – Panhandle GCD*
(8) the feasibility of achieving the desired future condition; and	*P 3-2 Use of DFCs in developing MAG & 2011 Plan* *P 3-3 Use of DFC in 2011 Plan (40,50,80)* *P 6-10 (Hemphill), p-12 (NP), cite DFC in local plans*
(9) any other information relevant to the specific desired future conditions.	*NA – All Components of 2011 Panhandle Regional Water Plan are somewhat pertinent*

Staff Resources: This is the District's primary team that will be putting information

Consulting Resources: This is the District's anticipated consulting resource we plan to use.