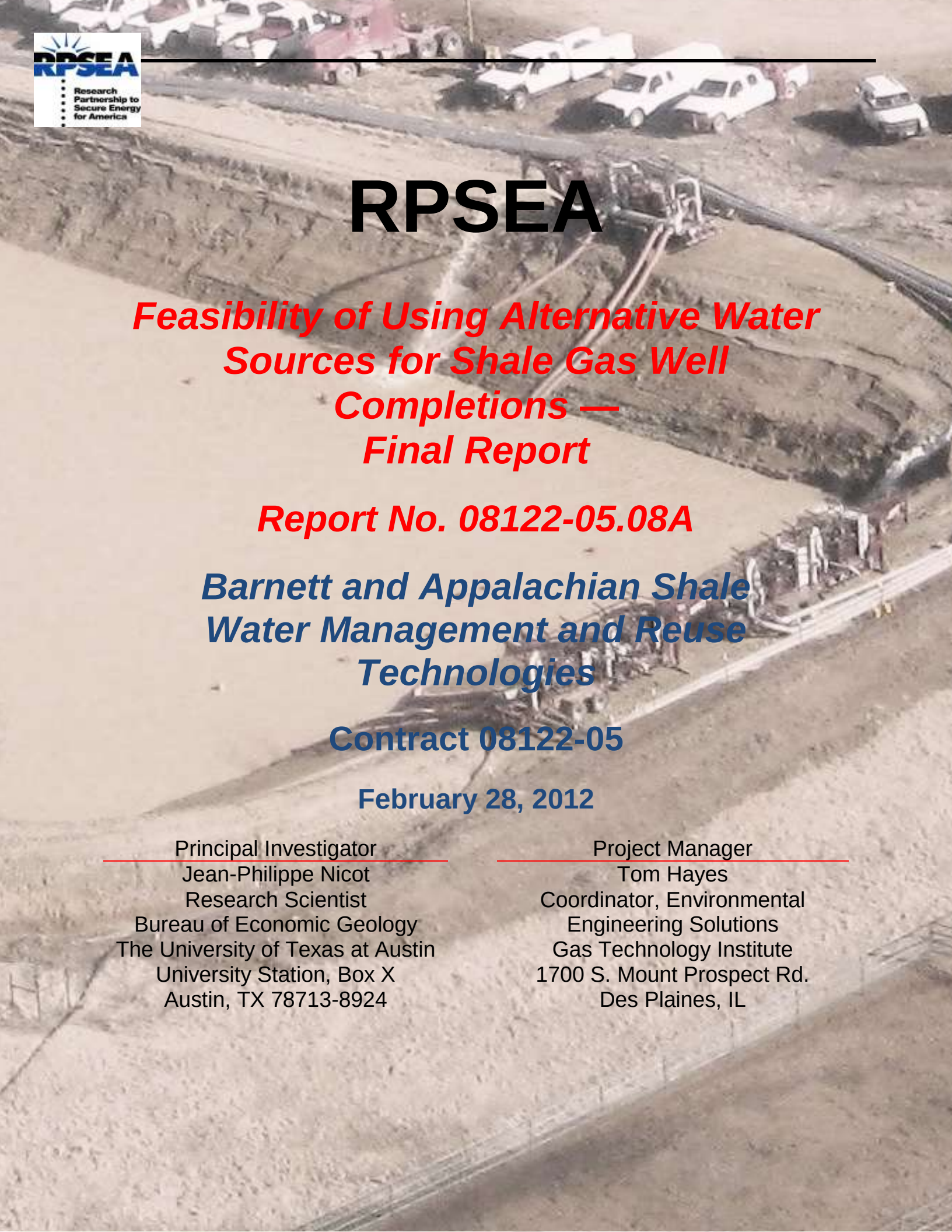

RPSEA

Feasibility of Using Alternative Water Sources for Shale Gas Well Completions — Final Report

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Barnett and Appalachian Shale Water Management and Reuse Technologies

Contract 08122-05

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Feasibility of Using Alternative Water Sources for Shale Gas Well Completions

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ABSTRACT

The study presented in this document investigates alternative sources of water to be used in the last completion phase (so-called “fracing”) of gas wells in the Barnett Shale play. It focuses on more rural counties (Montague, Jack, Palo Pinto, Parker, Erath, Hood, Somervell, Bosque, and Hill) located to the west of the core area (Denton, Johnson, Tarrant, and Wise Counties) where the Trinity aquifer is thin or absent. Millions of gallons are needed to perform the completion phase before gas wells are put online, and, in the past years, gas operators have mostly used (1) groundwater from dedicated supply wells tapping the Trinity Aquifer, (2) surface water from large reservoirs and rivers, purchasing it from water-rights owners (private or state agencies such as river authorities), and, to a lesser extent, (3) surface water from private ponds and other water bodies, (4) treated water from municipalities and industrial users, and (5) water recycled from previous fracking operations. As gas production moves away from the core area toward the north, south, and west to access the remainder of the play, gas operators are faced with two challenges: (1) increased water scarcity and (2) measured reluctance to impact domestic and public water supplies.

The study analyzes three sources with the potential to meet those goals: (1) treated wastewater outfalls from waste water treatment plants; (2) small water bodies outside the State regulation of surface water, and (3) smallish groundwater aquifers in Paleozoic-age disconnected sand bodies west of the more plentiful Trinity aquifer. Treated waste water amount and chemical quality was obtained by mining TCEQ and federal databases and their characteristics are fairly constant throughout the year. All non-State surface water bodies were inventoried through satellite orthoimagery coverage. They were sorted into 6 size categories and computed for two selected years assumed to be representative of Texas climate cyclicity (“normal” wet and “normal” dry). The study assumes that the only water available from the surface water bodies is the balance between wet and dry conditions and that that volume is to be spent in the course of two years. The surface water quality is understood to be fresh. Groundwater availability was inferred from the construction and running of a numerical model of aquifers covering pre-Trinity Paleozoic formations making up the subsurface geology of the area of study. The development of the model was done following informal guidelines set by the State GAM program and entailed (1) development of a conceptual model that consists of a shallow flow system quickly discharging baseflow water to the streams with a general head gradient to the north; (2) a thorough and lengthy phase of data gathering (top and bottom of layers, hydraulic conductivity values) from the literature and from public-domain databases; and (3) a calibration phase of matching modeled heads to observed heads. Those aquifers provide fresh to brackish water from generally low-yield wells. The fact that the State of Texas has never catalogued North-Central Texas Paleozoic aquifers even as minor aquifers, and this is borne out by our study, strongly suggests that they can only provide small amounts of water. This, in turn, suggests that obtaining meaningful amounts of water will require long and deep screened intervals tapping into more brackish sections and producing a degraded water quality. The amount of water available was computed by taking into account projected water use from all other users (as prepared by the TWDB) and assuming that an average cumulative drawdown of 5 feet across the entire study area in the next 50 years was acceptable to all stakeholders. This value is consistent with values accepted in the State for other small aquifers. Although aquifers do contain immense amounts of

water, the amount that can be withdrawn is quickly limited by negative environmental and other impacts.

We developed an Arc-GIS tool to determine the amount of water available at any point of the study area from the three characterized water sources within a given radius (note that water might be available too from more common sources such as large reservoirs). They were chosen at 5, 10, and 15 miles. To understand the adequacy of the resource, ~1000 points were selected on a regular grid covering the area of interest and statistics on water availability were then derived. To allow for comparison of water availability all sources use the same reference unit of million gallons per month. Results suggest that, assuming a dense development of the gas resource, in most cases, enough water is theoretically available on average (~40 million gallons available vs. ~10 million gallons used per month in a 5-mile radius). However, more than half of the total is surface water making it very susceptible to droughts. Droughts will do more than drying up the surface water resource, it will also limit access to treated waste water and groundwater as conservation takes place and as more users rely on groundwater, respectively. From an economic standpoint all the alternative sources described in the study are very fragmented leading to a diffuse ownership and a likely expensive water gathering system.

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LIST OF ACRONYMS

AF	Acre-foot
BSWCMC	Barnett Shale Water Conservation and Management Committee
GAM	Groundwater Availability Model
GCD	Groundwater conservation district
gpm	Gallon per minute
MGD	Million gallons per day
PWS	Public water system
SES	Steam electric station
TCEQ	Texas Commission on Environmental Quality
TDS	Total dissolved solids
TNRIS	Texas Natural Resources Information System
TSS	Total suspended solids
TWDB	Texas Water Development Board
WWTP	Wastewater treatment plant

1 Introduction

This report documents findings of Task 6.0, "Determine Feasibility of Using Alternative Water Sources" of the "Barnett and Appalachian Shale Water Management and Reuse Technologies" project funded by RPSEA. It summarizes results of the milestone report of Year 1 (attached as Attachment E) and details findings of Year 2.

The impetus for the work was a realization that development for gas production in the Barnett Shale area is expanding to the west, north, and south of the core area into areas with few known groundwater resources and with some of the surface-water resources tied up for municipal use (Figure 1 shows footprint of the Trinity aquifer, Figure 2 depicts Barnett Shale well location as of mid-2011, Figure 3 displays surface-water features, and Figure 4 shows the counties of interest). There is a clear need for a coordinated approach to locating alternate sources of water and evaluating various means of water delivery to alleviate potential water-availability constraints on Barnett Shale production over the next decades. The objectives of the study as a whole were to:

1. Gather baseline data and determine current and predicted water use for all purposes,
2. Review water-quality specifications required to perform frac jobs developed by the Barnett Shale Water Conservation and Management Committee (BSWCMC) Frac Job Expert Panel and determine technical and economic feasibility of utilizing alternate sources of water,
3. Inventory sources of surface water,
4. Inventory nonconventional water sources: desalination concentrates, reclaimed water from treatment plants, low-salinity produced water, dewatering activities, etc.,
5. Interview and interact with industry operators to learn about current practices of locating alternate sources of water in counties with water limitations,
6. Determine water compositions of alternate water sources by obtaining existing data (from TWDB and TCEQ), and
7. Determine possible interactions between sources.

The overall goal was for BSWCMC/RPSEA/GTI to visualize water availability and quality below some cost threshold from any location in the study area. Although the project did not propose an economic model, all the ingredients but cost to build such model are presented below. In summary, the current model computes how much water is available within a given radius of any point in the area of interest. Three categories of water source were analyzed: outfall from small waste water treatment plants, small surface water bodies, and small aquifers. A description of the tool is provided in Attachment A whereas results are presented in the next section. Attachment B contains results of the waste water treatment plant inventory. Attachment C summarizes the surface water body study and Attachment D presents a relatively thorough study of the so-called Paleozoic aquifers of North Central Texas overlying most of the Barnett Shale footprint (except the core area).

Contributors to the work include Steve Walden and Russ Baier from Steve Walden Consulting and Cliff Lam, undergraduate at UT, for the WWTP study; Teresa Howard from the Center for Space Research at UT for the water features study; Brad Wolaver, Yun Huang, and Ruth Costley, researchers at BEG, and Ed McGlynn, Mary Hingst, and Joy Mercier graduate students at UT, for the groundwater study; and Cari Breton at BEG for help on the GIS work. Gil Strassberg developed the ArcGIS tool.

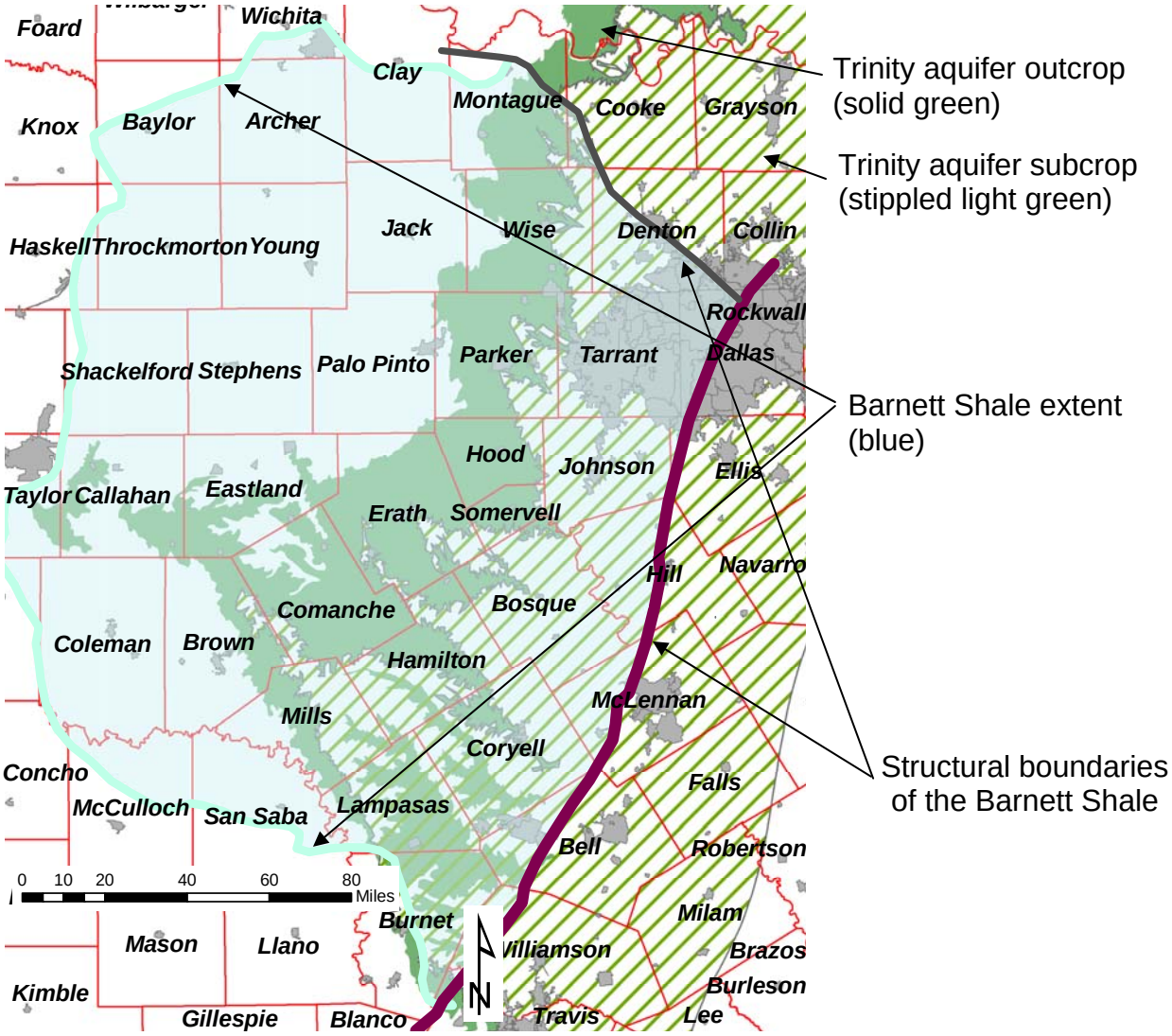
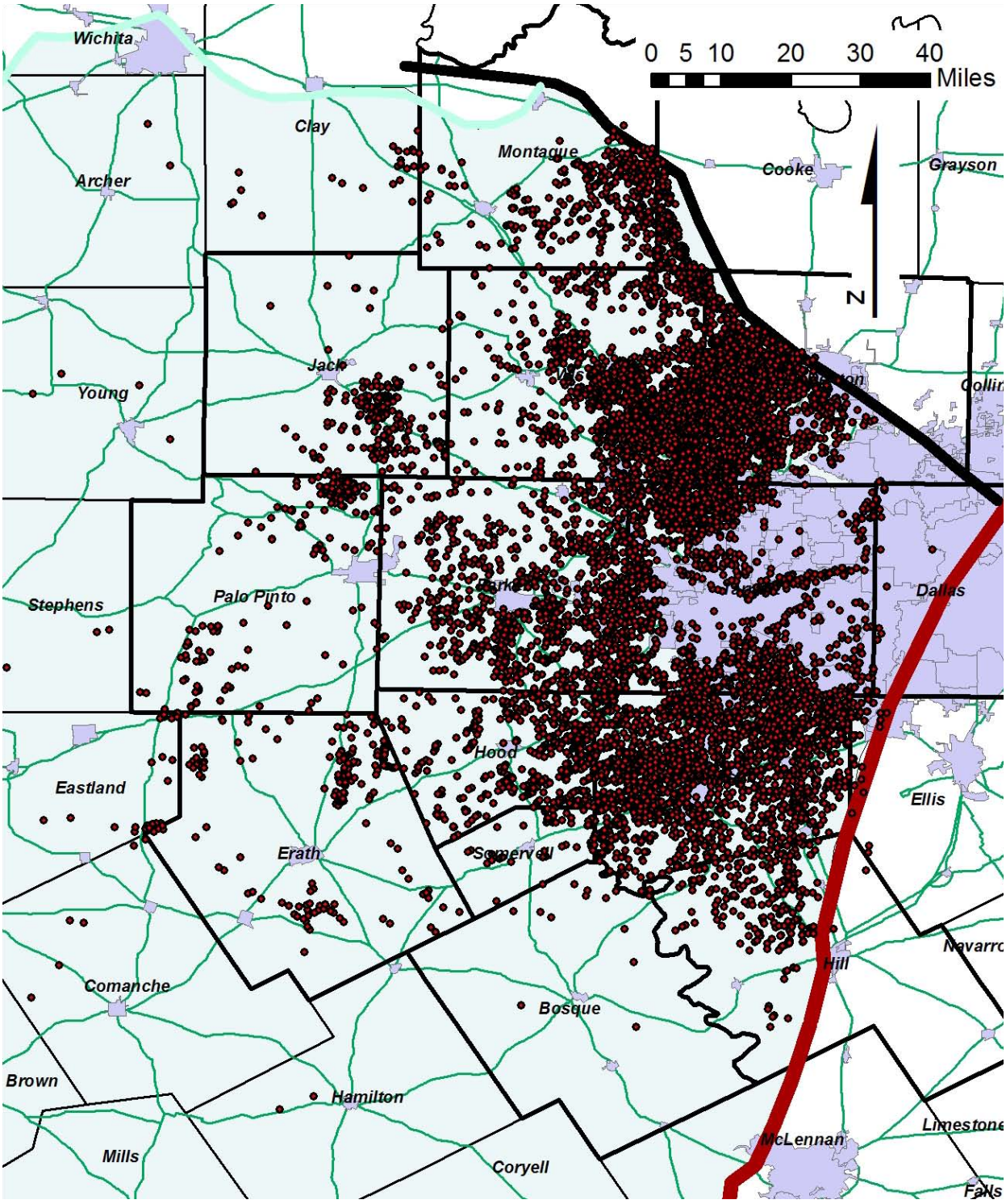


Figure 1. Barnett Shale and Trinity aquifer extents.



Note: county boundaries of area of study highlighted by thicker solid lines

Figure 2. Barnett Shale well locations (>15,000 wells as of mid-2011)

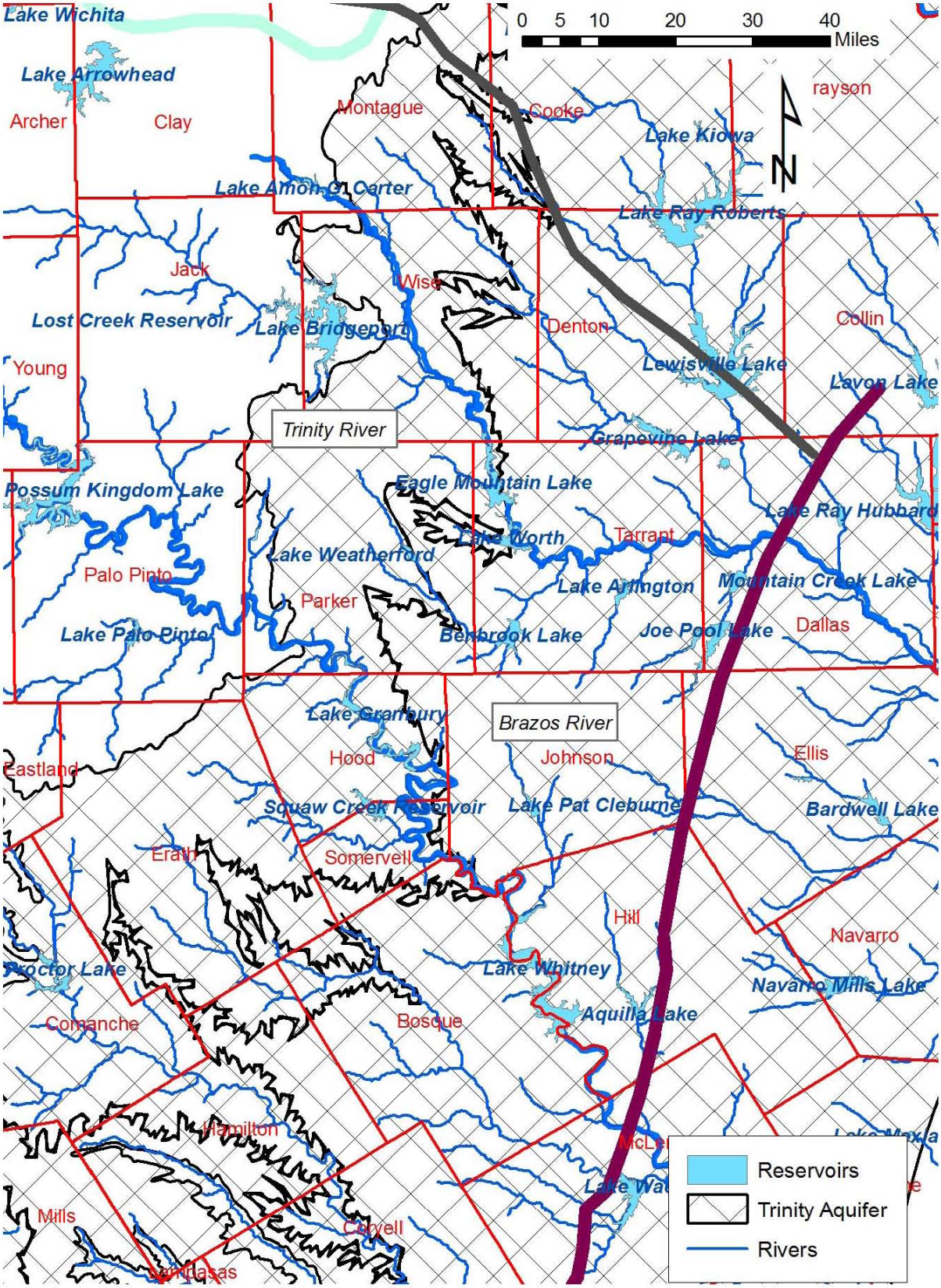
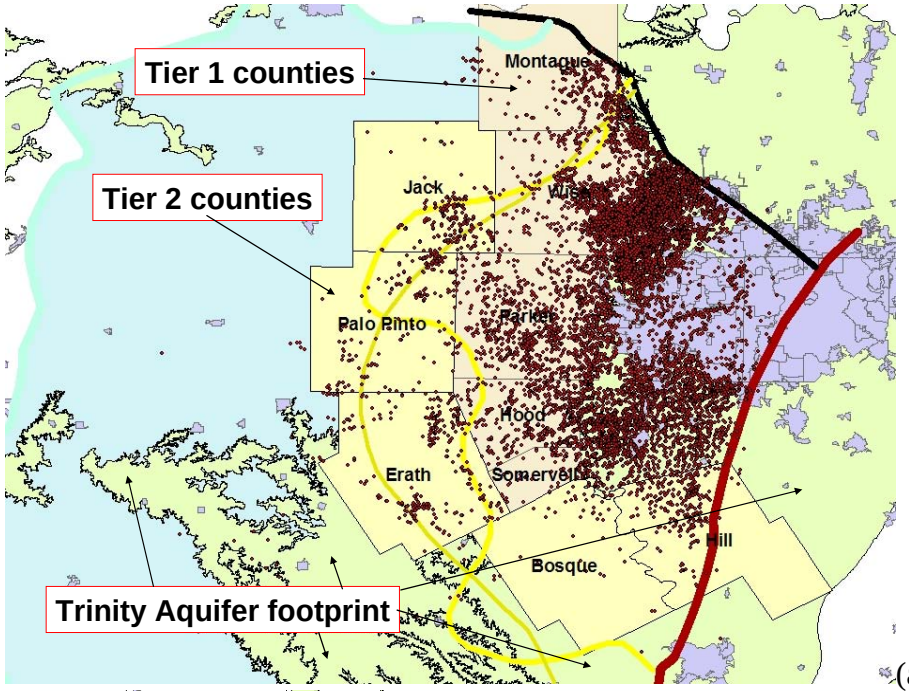


Figure 3. Rivers and reservoirs in the study area.



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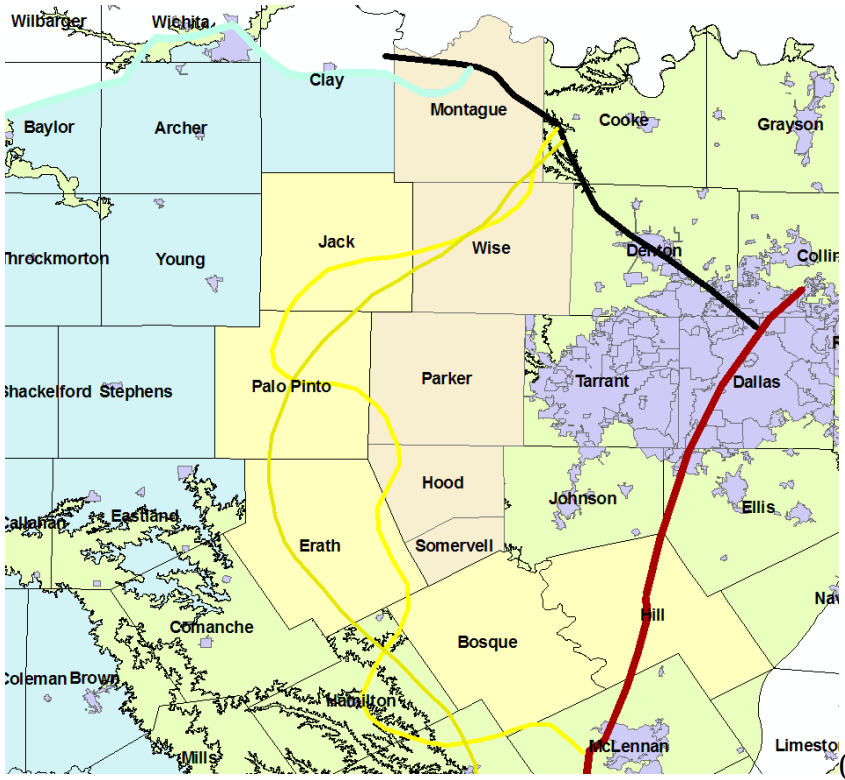


(b)

Note: Maps show Barnett Shale footprint, Dallas-Fort Worth metroplex, and gas-well locations through 2008. The 10 counties of initial interest are also shown: Tier1, the closest to the core area (Montague, Wise, Parker, Wood, and Somervell) and Tier2 (Jack, Palo Pinto, Erath, Bosque, and Hill). Area approximately delimited by yellow lines represents sections of shale with sufficient thermal maturity. (b) Addition of Denton, Tarrant, Johnson, and Dallas Counties.

Figure 4. Map displaying counties of interest.

2 Summary of Source Investigation

2.1 Waste Water Treatment Plant Outfall

There are approximately 160 waste water treatment plants in the area of study, 5 of them are very large (>100 MGD) and are not included in the study. Most of them are small to very small (see Attachment E). Not considering the large plants, average outfall flow is 0.689 MGD but median is much lower at 0.087 MGD. Percentiles are as follow: 95^{th} = 4.3 MGD, 75^{th} = 0.37 MGD, 50^{th} = 0.087 MGD, 25^{th} = 0.01; 5^{th} = 0.002; minimum <0.001 MGD. Those rates are fairly constant throughout the year.

2.2 Surface Water Bodies

Numerous water bodies are present (for example, Figure 5) and represent a substantial amount of water even without including large lakes. Detailed statistics are presented in Attachment C. Overall there was ~31,200 and ~12,400 small water bodies totaling ~51,000 and 23,500 acres in wet and dry conditions of the selected years, respectively. Because depth of the surface water bodies is not well-know there is some uncertainty in the amount of water available. However, minimum and maximum depth are relatively well constrained. Water volume depends on weather conditions but is approximately 0.54 million AF in wet conditions and 0.2 million AF in dry conditions (Table 1), again not including large reservoirs. An important assumption applicable to smaller stock ponds is that they are filled up only through run-off and precipitation not through groundwater pumping. The assumption is reasonable as there is a large difference in number and total surface area between wet and dry years. Another concern was that the opportunity of selling water to the industry would incite landowners (how many ponds were on private land as opposed to federal, state, or city property was not explored) to create stock ponds filled with groundwater. This concern does not seem to bear out as comparison in water body count and total surface area between the reference years chosen as wet (1997) and dry (1999) (still early in the history of the play at which time gas production was restricted to the core area East of the zone of interest) and later years (2003 to 2010) shows no difference in water body coverage and count. The category 0.1-0.5 ha (0.04 – 0.20 acre) is the most numerous but the 1-10 ha (0.4 – 4 acre) covers the most surface area and contains the largest water volume (Figure 6). Note the sharp decrease in count, measured area, and estimated volume from wet to dry years.

Table 1. Summary of water body study

	Count	Measured Area (acres)	Estimated Volume (thousand AF)	Count	Measured Area (acres)	Estimated Volume (thousand AF)
	1997 (wet year)			1999 (dry year)		
< 0.1 ha	9,548	2,119	12.7	4,299	955	2.9
0.1 - 0.5 ha	14,209	9,685	58.1	5,323	3,428	17.1
0.5 - 1 ha	4,260	7,294	65.6	1,248	2,163	15.1
1 - 10 ha	2,943	18,612	223.3	1,366	10,020	90.2
10 - 20 ha	169	5,742	68.9	95	3,240	29.2
> 20 ha	75	7,505	112.6	33	3,546	42.6
Total	**31,204**	**50,957**	**541**	**12,364**	**23,352**	**197**

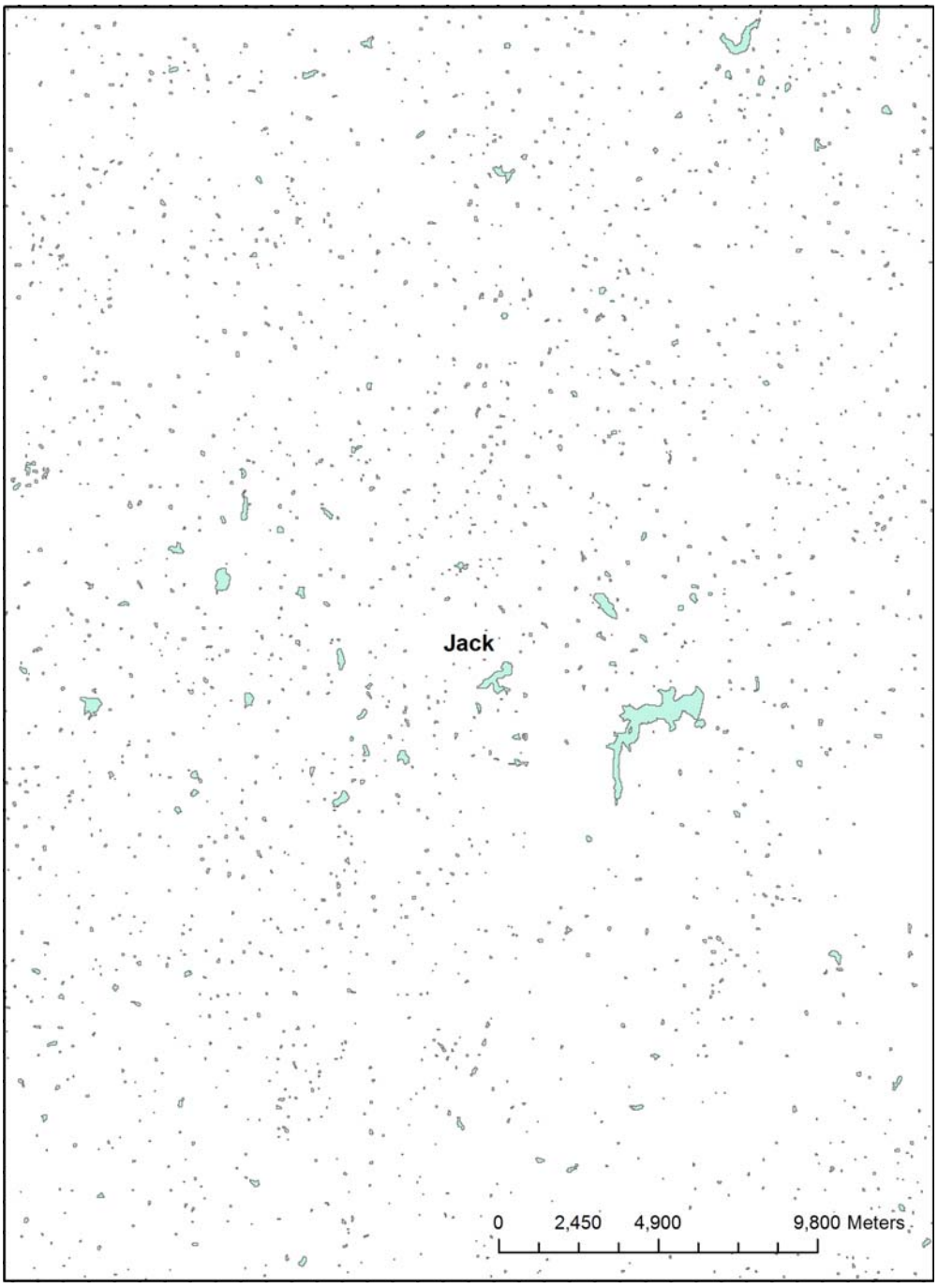
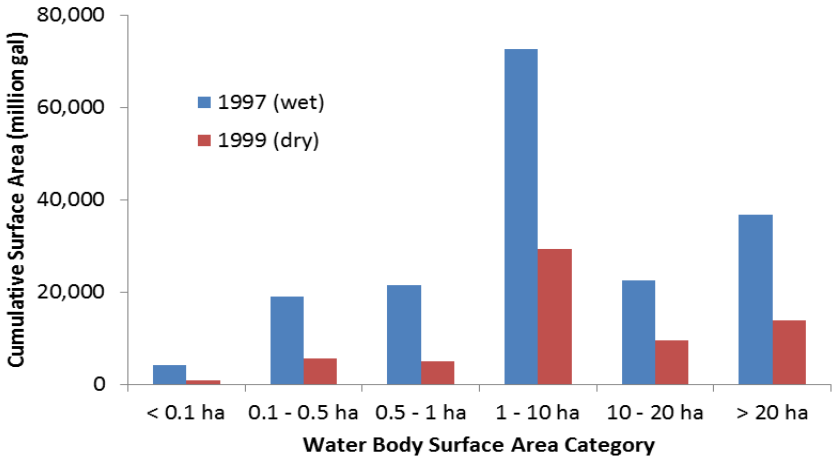
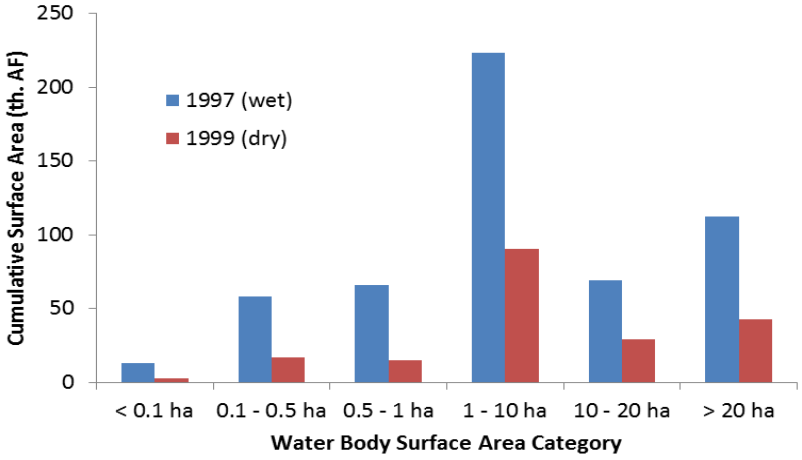


Figure 5. Example of water body distribution (Jack County, wet year 1997)



(a)



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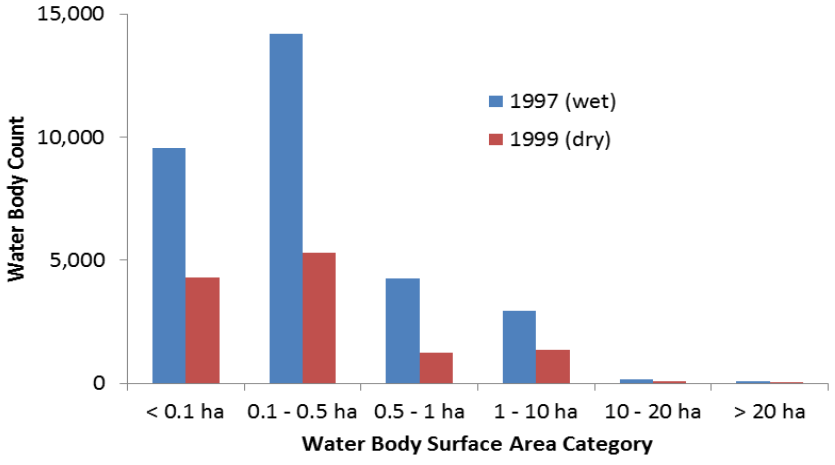


(c)

Figure 6. Summary of water body study: volume in million gallons (a) and thousand acre-feet (b) and count (c)
[1 acre = 4047 m^2 x 1.0 m = 1.07 million gallons; 1 hectare = 2.471 acres]

2.3 Paleozoic Aquifers

Little is known about those Paleozoic aquifers in the footprint of the Barnett Shale (outside of the Trinity Aquifer). Although part of a larger hydrological system, most of them are small in size barely covering a fraction of a county. Some are used for municipal water use (Montague County) but overall there is a need to determine what their capacity (how much water they hold), their yield (how much water can be produced from them), and water quality (is it fresh or brackish). It is important to characterize those aquifers as they might be the only water source in large sections of the Barnett Shale footprint, with no surface water bodies and no water treatment plant in those sparsely populated areas.

Aquifers, even small ones, do contain large volumes of water. However, most of it is not accessible without severe consequences (drying of springs, no base flow, disappearance of phreatophytes, subsidence, necessary lowering of pumps, etc). The beginning sections of Attachment D describe a way to assess the acceptable water volumes to withdraw that consists in an agreed-upon average water drop (also called drawdown). In agreement with the bottom up approach generally accepted for water management in Texas (and neglecting complexities brought out by local conservation district rules, rule of capture, exemptions for oil and gas industry), local stakeholders determine the acceptable drawdown level. Towards the end of the project during Summer 2011, we performed a quick survey and contacted several small utilities (Table 2) and asked the following questions: (1) Are you satisfied with the adequacy of your current supply?; (2) What is your perception of the Barnett Shale fracking in your area? The success rate was about 44%, that is, out of 9 utilities contacted, 4 responded. They were all concerned by the Barnett Shale development because of potential depletion of the aquifer and because there is no substitute to groundwater in their area. 3 out of the 4 respondents mentioned that they have not access to surface water. In agreement with those concerns and as explained in Attachment D, we computed the pumping level (including all uses) corresponding to an average drawdown of 5 feet in 50 years (in 2060). However, as displayed in Table 3 and depicted in Figure 7, drawdowns are not constant throughout the area. Note that a simple geometric analysis (5 ft times specific yield times aquifer surface area) is inaccurate and that a numerical model was needed because aquifers are by nature dynamic systems with water coming in (through recharge) and out (to stream baseflow for example) in a complex way.

Making use of information presented in Attachment D (giving time-constant but county-varying permissible pumping levels in addition to the “natural” use), the modeling suggest that current pumping can be increased **on average** by a factor of 200% and that the aquifer will still meet the average 5-ft requirement (Table 4). However it is clear that, as depicted on Figure 7, relatively large areas of the region of interest will not be able to achieve such a large pumping increase.

An evaluation of Paleozoic water well characteristics in our 2,474-well database reveals median values for depth of 200 feet, discharge rate of 11 gallons per minute, and screen length of 35 feet. Our work also shows that 25^{th} to 90^{th} percentile transmissivity and permeability vary spatially across the study area within two log cycles. We assume that aquifer properties are similarly homogeneous with depth. Groundwater total dissolved solids are generally potable <300 feet, but increase rapidly down dip. Thus, in order to produce required water volume, we recommend wells with long (i.e., possibly 100s of feet) well screens. To assure that produced water is of acceptable water quality we suggest that groundwater quality be characterized prior to completion using the approach of the TCEQ Surface Casing Division. A small-radius pilot borehole can be drilled relatively rapidly and inexpensively though the longest section that could

be potentially screened. Standard, inexpensive well logs could be run on the borehole (i.e., SP, gamma, resistivity) for two purposes: (1) to identify permeable sand layers – which can be used to inform selection of final well screened intervals, and (2) to estimate groundwater salinity using the SP log following the approach of Estepp (2010). The SP log salinity estimate can be used to plan the final well total depth – avoiding completion in section with groundwater salinity above acceptable limits. The pilot borehole can be reamed out to the total recommended depth – potentially saving money by avoiding drilling the wider diameter final borehole into potentially unproductive deeper zones. Casing and screen can be selected based upon geophysical logs run in the pilot borehole to optimize the well design to only screen across permeable, sand-rich horizons – also potentially saving money.

Table 2. Public water systems extracting water from the Paleozoic aquifers (from TCEQ PWS database)

PWS	WATER SOURCE	WELL DEPTH	AQUIFER	AQUIFER_NAME	COUNTY	Disch. (GPM)	LATITUDE DD	LONGITUDE DD	PWS NAME
0390013	G0390013B	453	321CSCO	Pennsylvanian Age A.	Clay	90	33.63064575	98.01481628	City of Bellevue
1190001	G1190001B	275	321CSCO	Paleozoic Erathem Age A.	Jack	90	33.17731476	98.37545013	City of Bryson
1190008	G1190008D	200	321PLPN	Pennsylvanian Age A.	Jack	50	33.03366667	98.02388611	Mitchell RV Park
1190005	G1190005D	280	321PLPN	Pennsylvanian Age A.	Jack	23	33.03059006	98.07444	Perrin Water System
1690006	G1690006G	700	321CSCO	Pennsylvanian Age A.	Montague	150	33.68832779	97.52497101	City of Saint Jo
1690009	G1690009E	720	300PLZC	Paleozoic Erathem Age A.	Montague	133	33.83555603	97.64994049	Nocona Hills WSC
1690009	G1690009B	310	318WCHT	Permian Age A.	Montague	110	33.83845556	97.62058333	Nocona Hills WSC
1690007	G1690007C	500	300PLZC	Paleozoic Erathem Age A.	Montague	70	33.45064545	97.76604462	Sunset Water System
1690014	G1690014B	210	318WCHT	Permian Age A.	Montague	60	33.67536111	97.90467778	Gold Burg High School
1690011	G1690011A	500	300PLZC	Paleozoic Erathem Age A.	Montague	60	33.87747192	97.64012146	Oak Shores Water System
1820052	G1820052A	360	324MLWL	Pennsylvanian Age A.	Palo Pinto	15	32.8136	98.11408611	Famous Mineral Water
2490001	G2490001B	381	300PLZC	Paleozoic Erathem Age A.	Wise	131	33.35933056	97.69505833	City of Alvord
2490001	G2490001A	415	300PLZC	Paleozoic Erathem Age A.	Wise	120	33.36277771	97.6922226	City of Alvord
2490033	G2490033G	147	300PLZC	Paleozoic Erathem Age A.	Wise	20	33.16977778	97.834	Bay Landing at Runaway Bay

Table 3. Summary of simulated drawdown

Layer#	Layer Name	Mean Drawdown (ft)	Maximum Drawdown (ft)	Cell Count
1	Wichita	14.1	72	3168
2	Cisco	6.2	174	15,703
3	Canyon	3.9	95	8773
4	Strawn	3.0	633*	17,695
Weighted Average (ft)		**5.06**		45,339

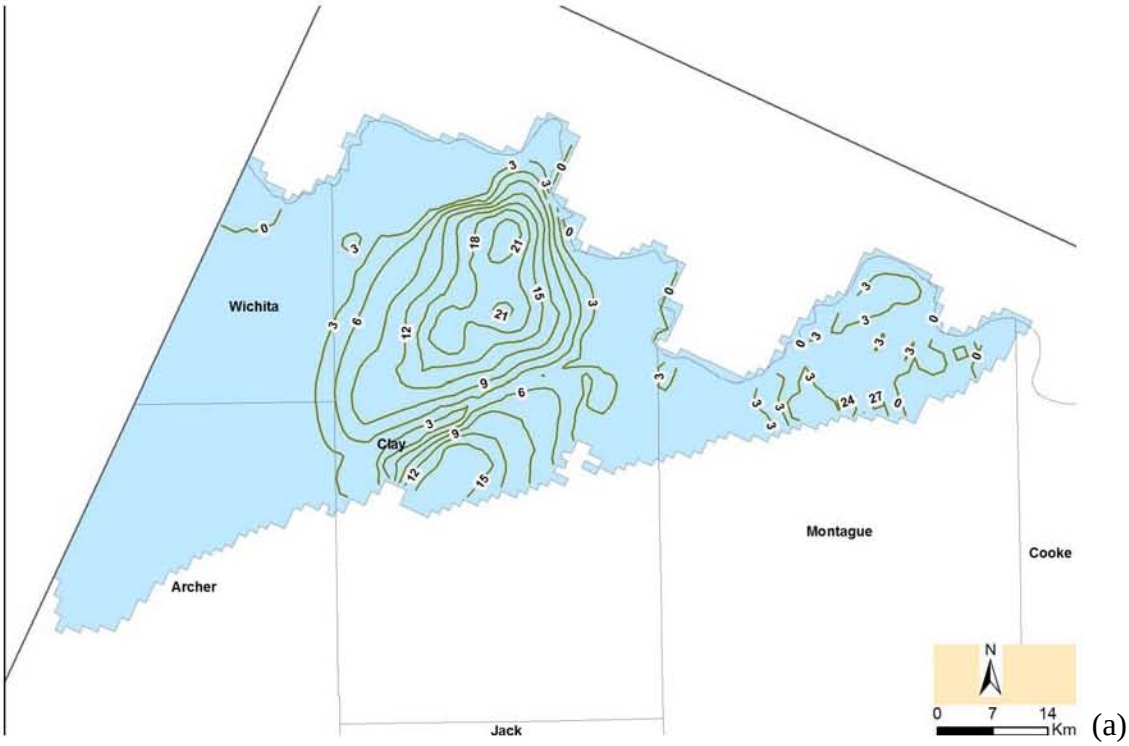
*: the presence of dry cells in the model towards the end of the runs makes this maximum dubious and not necessarily realistic

Table 4. Aquifer pumping summary

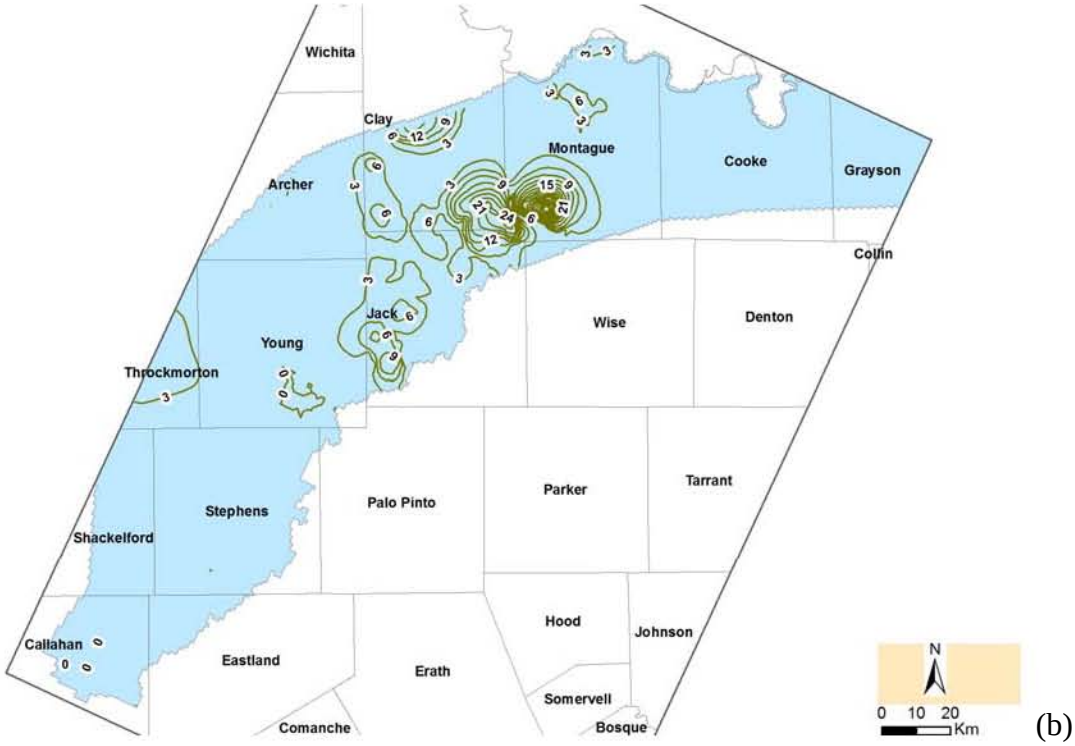
County	Total Pumping* (m^3/d)	Add. Pumping** (m^3/d)	Add. Pumping** (MGD)	Add. Pumping** (MGal/yr)
Archer	2,228	0	0	0
Callahan	263	0	0	0
Clay	27,500	23,949	6.33	2,311
Eastland	2,196	0	0	0
Erath	1,644	938	0.25	91
Jack	14,400	11,849	3.13	1,143
Montague	8,951	8,019	2.12	774
Palo Pinto	13,126	9,450	2.50	912
Parker	2,018	1,463	0.39	141
Shackelford	357	0	0	0
Stephens	4,034	0	0	0
Throckmorton	428	0	0	0
Wichita	1,517	0	0	0
Wise	2,326	1,738	0.46	168
Young	2,404	0	0	0
Grand Total	83,391	57,406	15.17	5,539

*: Average of year 2010-2060; variations from average are small (~1,000 m^3/d); total pumping include the so-called additional pumping category

**: Additional pumping required to reach the drawdown goal of 5 feet, only in those county in which hydraulic fracturing is likely to take place.

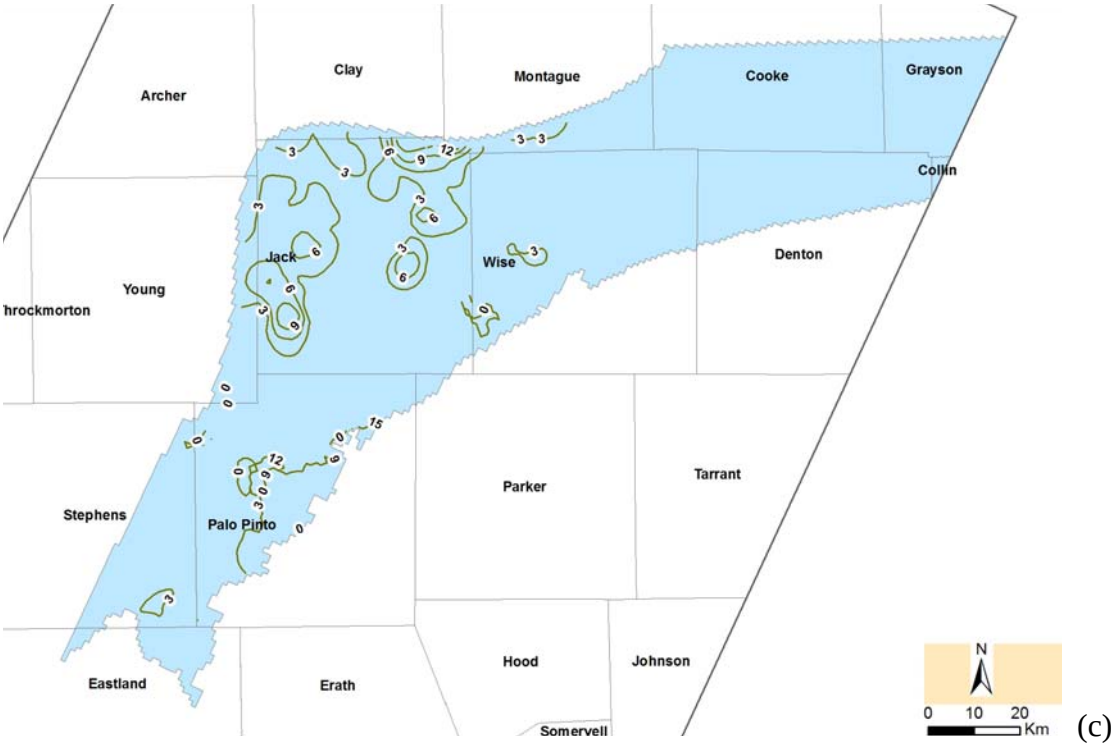


(a)



(b)

Figure 7. Simulated drawdown between 2010 and 2060 (3 m contour interval) for Wichita (a), Cisco (b), Canyon (c), and Strawn (d) layers



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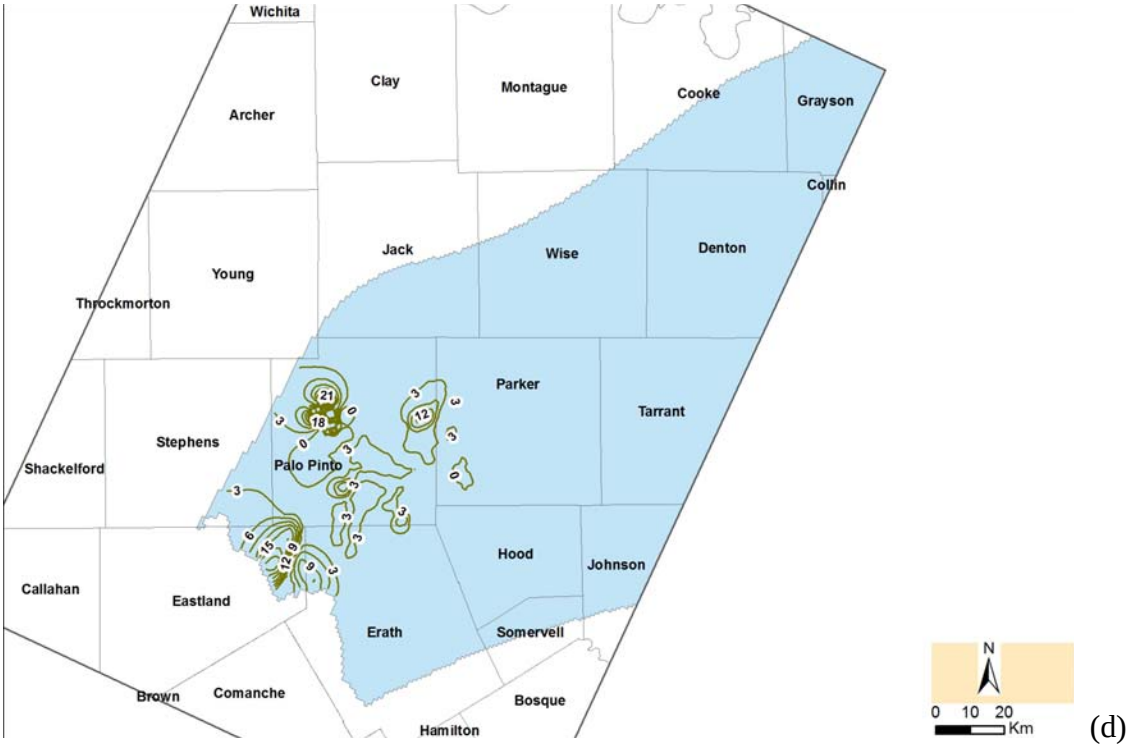


(d)

Figure 7. Simulated drawdown between 2010 and 2060 (3 m contour interval) for Wichita (a), Cisco (b), Canyon (c), and Strawn (d) layers (continued)

3 Overall Results

3.1 Definition of Availability

Treatment plant outfall, surface water bodies, and aquifers represent vastly different water source types. A unifying concept consists in characterizing them by two parameters: capacity or storage and yield. The former addresses how much water is available at a given time, the latter informs on how fast the water can be accessed. Treatment plant outfalls have no capacity but sustained known yield. If the water is not used immediately it is discharged into streams or lakes, becomes water of the state, and is lost for the purpose of this work. Aquifers have a large storage capacity but delivery of the water is constrained by the maximum well yield and the ability of the aquifer to recover. It should be noted to this project restricts itself to alternate sources of water, that is, the Trinity Aquifer, major aquifer overlying the core area of the Barnett Shale is not part of the study. Surface water bodies are relatively numerous and widespread across the area of interest but most of them are small with limited capacity even few large bodies exist. To summarize, treatment plants: no capacity, possibly large yield; surface water bodies: large capacity, medium to large yield; aquifers: medium capacity, small yield. A third qualifier (distance) can be added and defined with the same two end members: treatment plants exist only at very well-defined locations and are not that common whereas aquifers are ubiquitous even if not necessarily productive at every location. Surface water bodies are relatively common but mostly small. In the surface water study presented in Attachment C, a dry year and a wet year are used as representative end members.

Although the three categories have their own units of convenience, we need to express them under a unique system in order to compare them. Several approaches can be devised to reach such objective. The approach chosen in this work is to notice that operators store most of the needed frac water on site in the few weeks leading to the fracking of the well. We assumed that that lead time is one month ($1/12^{th}$ of a year). Treatment plant data is expressed as a rate (gallons per day, gpd) and represents an annual average expressed as an average daily rate. We assume such water source is available year-round. Surface water body reference characteristic is volume. However, not all of the water is necessarily available. The primary purpose of the ponds / water bodies is irrigation, cattle, and for the smallest stock ponds fish farming. We assume that the true water available is the volume difference between wet and dry years. How much can be withdrawn from them in a short period of time is more related to pump power. Another, maybe more relevant, factor is how fast the ponds can be replenished. Making the assumption that Texas weather oscillates between “normal” dry and “normal” wet years on average, this volume of water can be used up over a period of 24 months.

The amount of water stored in aquifers is large but not all is available and it can be withdrawn, in this particular study, only at relatively low rate. Total available water results from a combination of water available in unconfined (or water-table) and confined sections of the aquifers. The former consists of actual drainage of the pore space whereas the latter represents water made available through the drop in pressure in the aquifer without actual drainage of the pore space. Confined conditions typically occur with stacked aquifers with only the top one being unconfined. The numerical model developed in this study consists of 4 units whose most of available water is understood being unconfined. The aquifer metric used is based on the assumption that an average drop across the whole area of interest of 5 feet in 50 years is acceptable (including all groundwater use from all other users). With the help of the aquifer

numerical model, we were able to determine the level of pumping that would generate such an average drawdown. An additional element is the ability of the aquifer to provide such water. At the county level, the topmost cells (that is, the shallowest aquifer at that location) included in the 33% highest percentile of transmissivity were selected. Transmissivity is the product of hydraulic conductivity and aquifer thickness measuring the ability of the aquifer to provide a sustained rate. Although all topmost cells in a given county were assigned the same pumping rate, variability arises because they are clustered following geological parameters (see Attachment D). Aquifer water availability is then defined as the amount of water than can be pumped in a month from the aquifer.

To illustrate and contrast results from the different water sources, we calculated the amount of water available from points on a grid (Figure 8). They are numerous enough (982 points) to be representative of any point in the area of interest (Δx= 4406 m and Δy=4530 m). The tool could be used at any given point outside of the chosen set and is accurate for treatment plants, somewhat less accurate for surface water bodies (because of the uncertainty on depth), and the uncertainty is higher for groundwater use because the model is regional in nature (that is, acceptable in its general behavior but not necessarily accurate at the local scale). At each point of the grid, we computed water availability in a 5 mile-(8 km), 10-mile (16 km), and 15-mile (24 km) radius (respectively, Figure 9, Figure 11, and Figure 13). Note that only alternate water sources are considered. Large lakes, most dam reservoirs, and the Trinity Aquifer, when available, are not included in the water availability figures.

Not surprisingly the amount of water available increases as the search radius increases. For treatment plants, from none (in most cases) or less than 5 million gallons per month (8-km radios case) to none (~30% of cases) to less than 15 million gallons per month in the 16-km radius case to none (in ~15% of cases) to a solid 5 to 10 million gallons per month and a large spread all the way to 180 million gallons per month in the 24-km radius case. Surface water is generally available (except at 10 to 15% of the locations) with a large spread and no clear mode to 150, 400, and 800 million gallons per month in the 8-, 16-, and 24-km radius case, respectively. Groundwater is not available from wells with sufficient yield at 50%, 33%, and 21% of the locations in the 8-, 16-, and 24-km radius case, respectively. When it is available amount ranges from a few million gallons per month to ~30, ~80, and ~150 million gallon per month in the 8-, 16-, and 24-km radius case, respectively. The combined amount displays a clear mode at ~35 million gallons per month with a long tail to ~150 million gallons per month in the 8-km radius case but is more uniformly distributed in the 16- and 24-km radius case ranging from almost nothing to 500 and 950 million gallon per month, respectively.

The average distance (Figure 10a, Figure 12a, and Figure 14a) weighted by water amount has modes (with a small spread) at 3.5, 6.5, and 10.5 km in the 8-, 16-, and 24-km radius case, respectively. Attachment D documents well discharge from multiple domestic wells. Because of the construction of the database, several, sometimes many, wells fall at the same location (centers of map quadrangles). One can then take the median or 95th percentile well discharge at the quadrangle locations, contour the values and interpolate them at the model grid centers, and then sample the grid centers at the 982 locations depicted in Figure 8. The median value is representative of what a typical domestic well would withdraw from the aquifer but most likely the aquifer can supply more water than withdrawn for domestic use. In that sense the 95th percentile is closer to what a higher capacity well would provide to operators. Figure 10b-c, Figure 12b-c, and Figure 14b-c show a large range for both the median and 95th percentile cases.

The six plots are not very different; they all show a broad mode in the 30-40 gpm range. Such a range, assuming continuous pumping for a month, would yield between 1.3 and 1.75 million gallons. The median transmissivity (of all grid cells within the stated radius) displayed in Figure 10d, Figure 12d, and Figure 14d provides information on the potential of the aquifer to deliver water. The parameter has a wide range (from ~0 to >1000 ft2/day) but with a mode around a 300 ft2/day. It corresponds, assuming a productive thickness of 50 ft to a conductivity of 6 ft/day (equivalent to a permeability of 2.1 darcy). These are small transmissivity values. Percentile information from the data presented in Figure 9 to Figure 14 is presented in Table 5.

Table 5. Summary of results: water availability distribution by category

	Treatment Plant (Mgal/ month)	Surface Water (Mgal/ month)	Ground water (Mgal/ month)	Combined (Mgal/ month)	Average Weighted Distance (miles)	Groundwater Discharge Median (gpm)	Groundwater Discharge 95th Percen. (gpm)	Transmis-sivity Median (ft2/day)	Transmis-sivity 95th Percen. (ft2/day)
5 miles (8 km) radius									
5th Percen.	0.0	0.0	0.0	5.2	2.7	8.8	14.8	3.3	35.2
Median	0.0	35.9	0.0	42.7	3.3	27.6	33.4	301	767
95th Percen.	45.6	98.3	22.6	118	4.0	42.6	49.4	1675	3799
10 miles (16 km) radius									
5th Percen.	0.0	0.0	0.0	33.6	5.7	9.4	18.6	4.6	158
Median	7.1	183	8.9	223	6.6	27.5	36.2	316	1239
95th Percen.	117.1	358	70.6	447	7.6	39.4	49.6	1195	3859
15 miles (24 km) radius									
5th Percen.	0.0	0.0	0.0	79.4	8.8	10.0	21.2	5.7	297
Median	44.7	382	31.5	462	10.0	27.4	37.8	316	1750
95th Percen.	167.7	682	121	838	11.1	37.2	52.5	744	3315

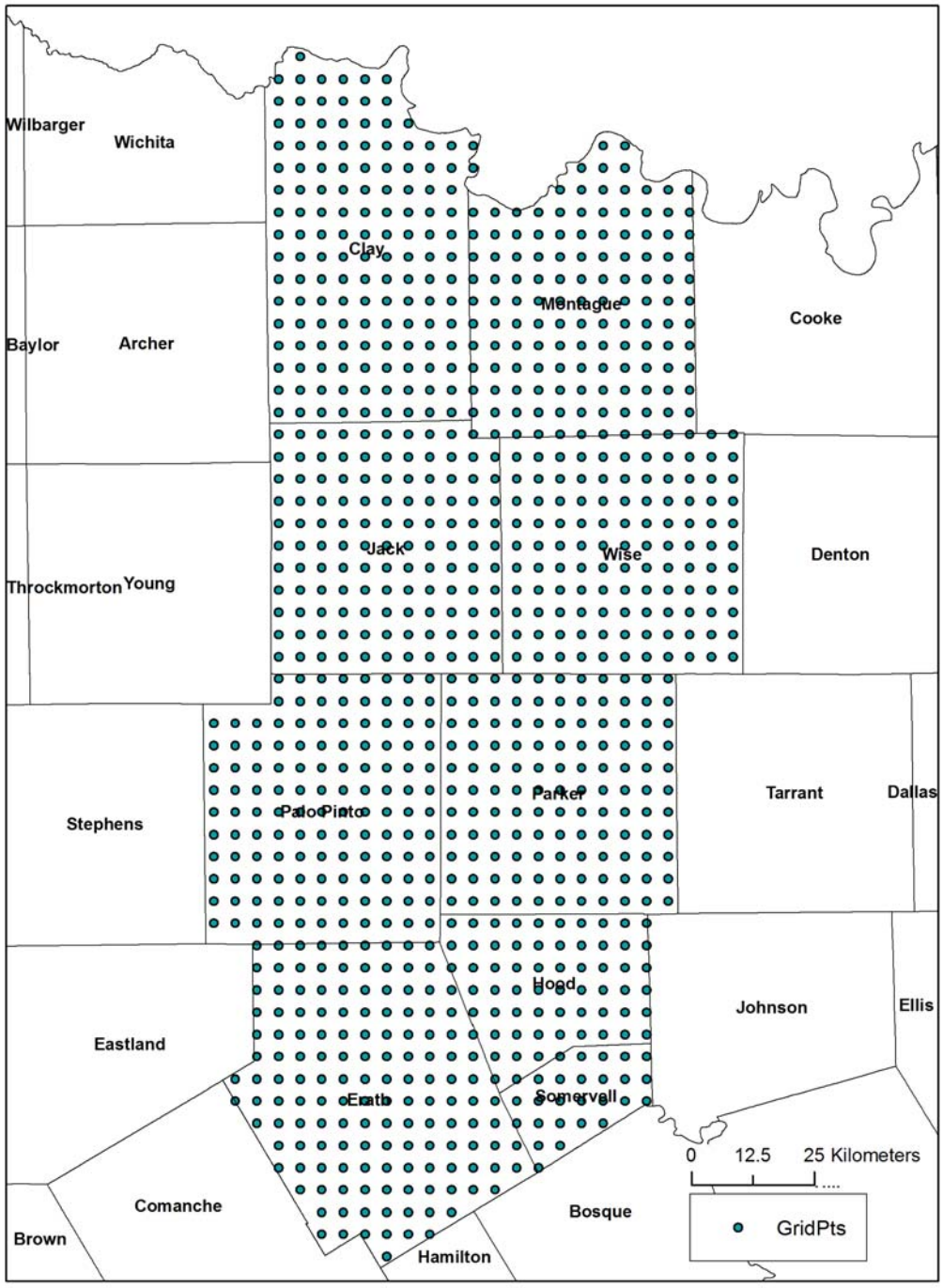


Figure 8. Location of gridpoints used to build parameter histograms

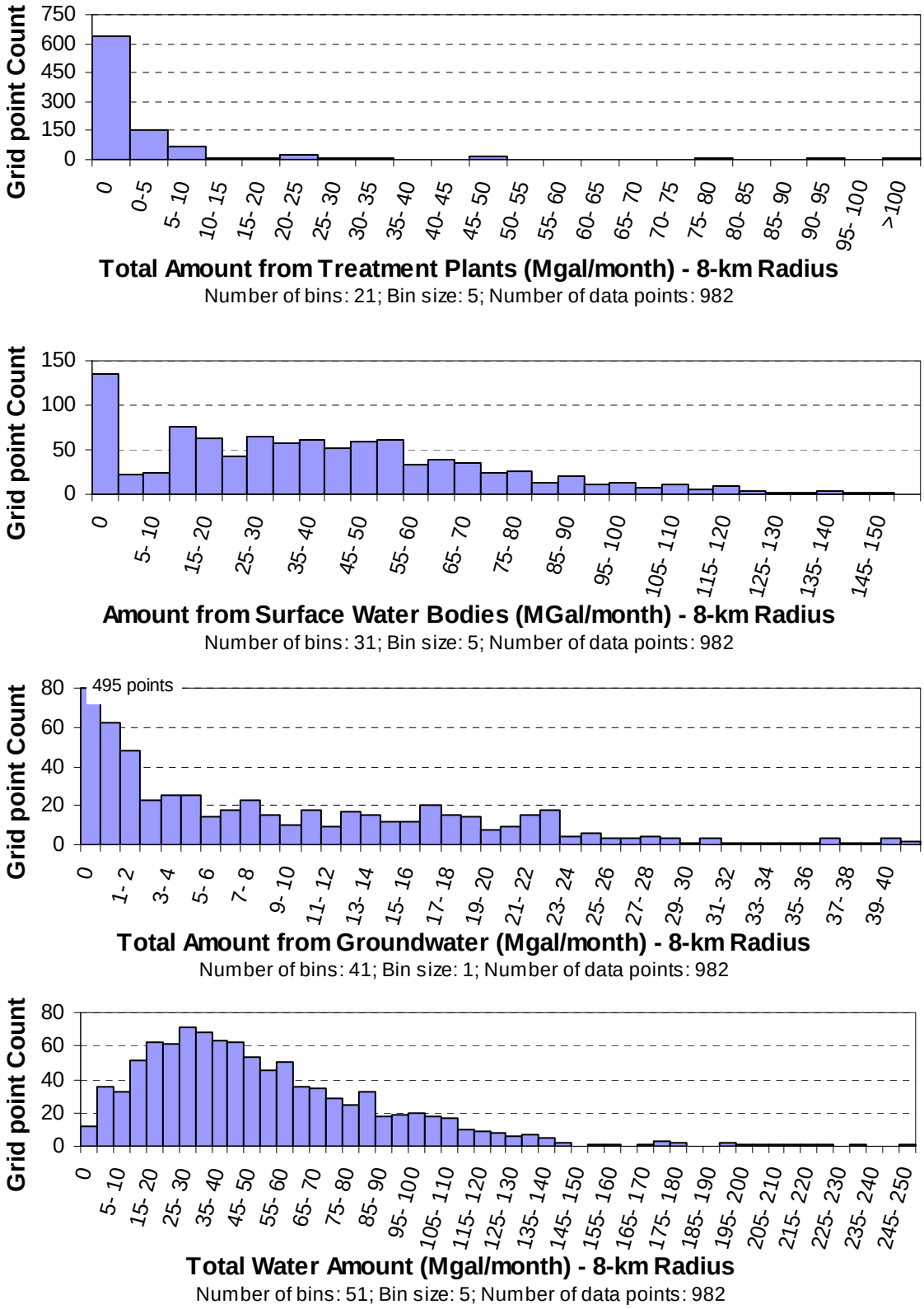
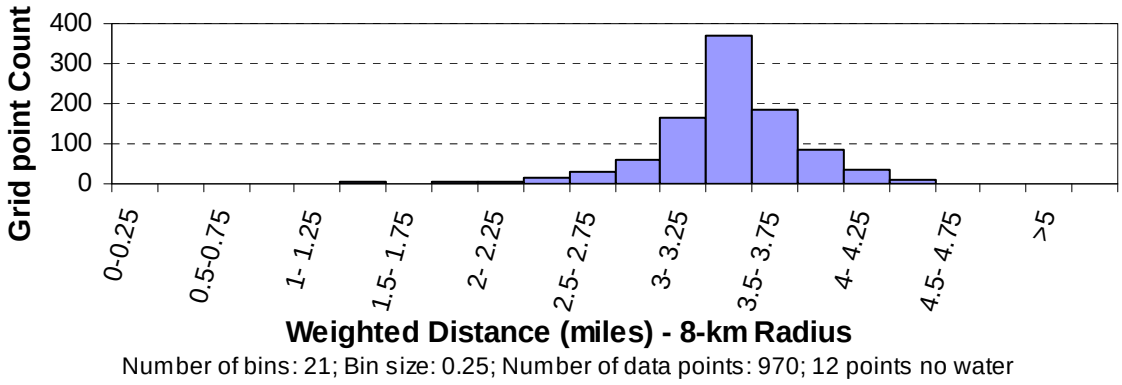
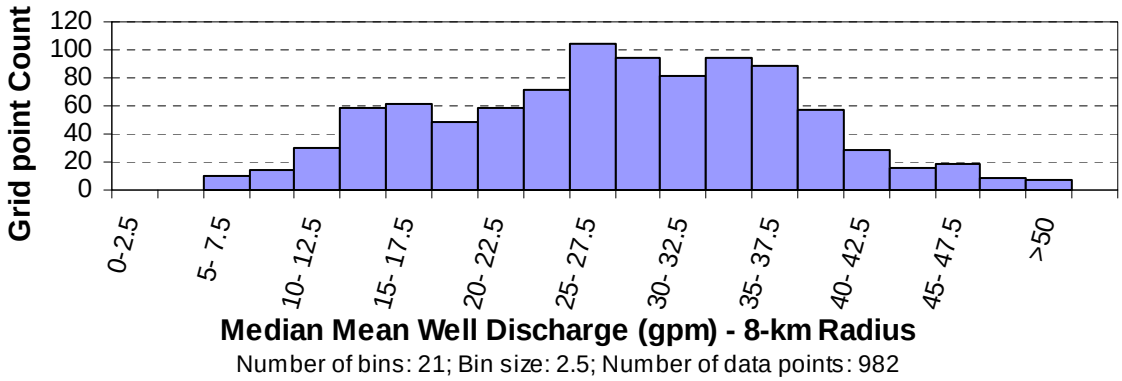


Figure 9. Distribution of available water within a 8-km radius from treatment plants, surface water bodies, aquifers, and combined sources.



(a)



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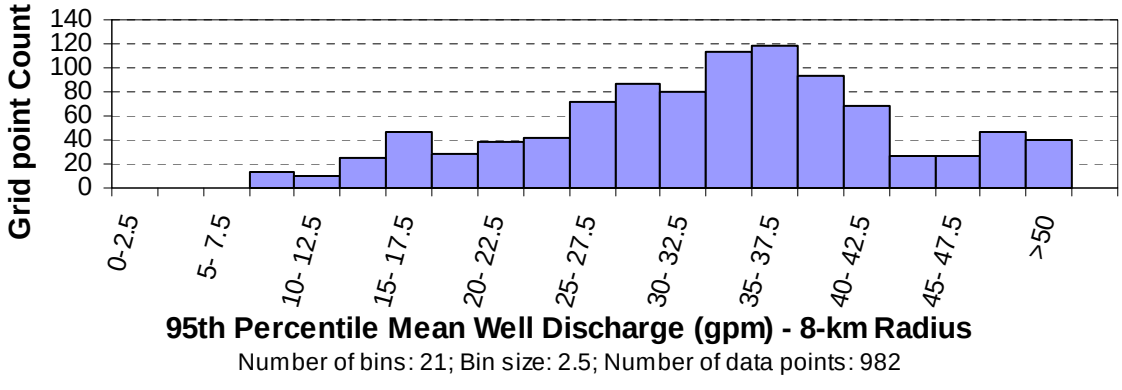

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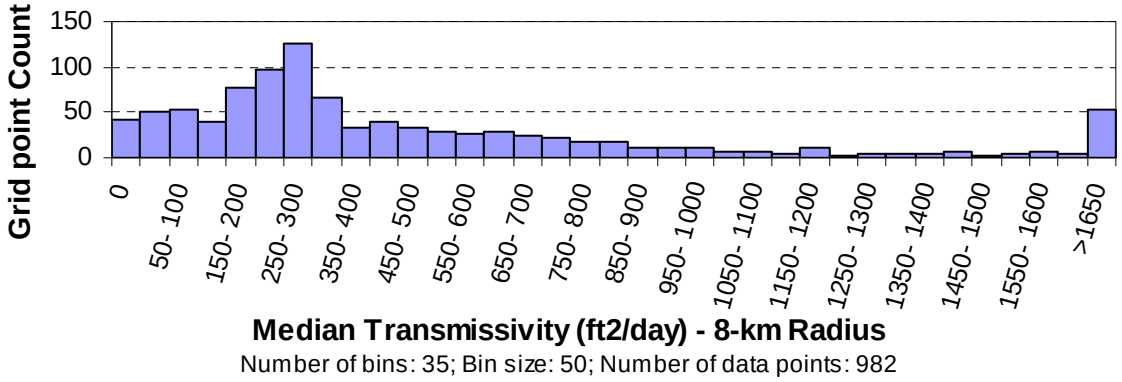


(d)

Figure 10. Distribution of weighted distance, median and 95th percentile mean well discharge, and median transmissivity in a 8-km radius.

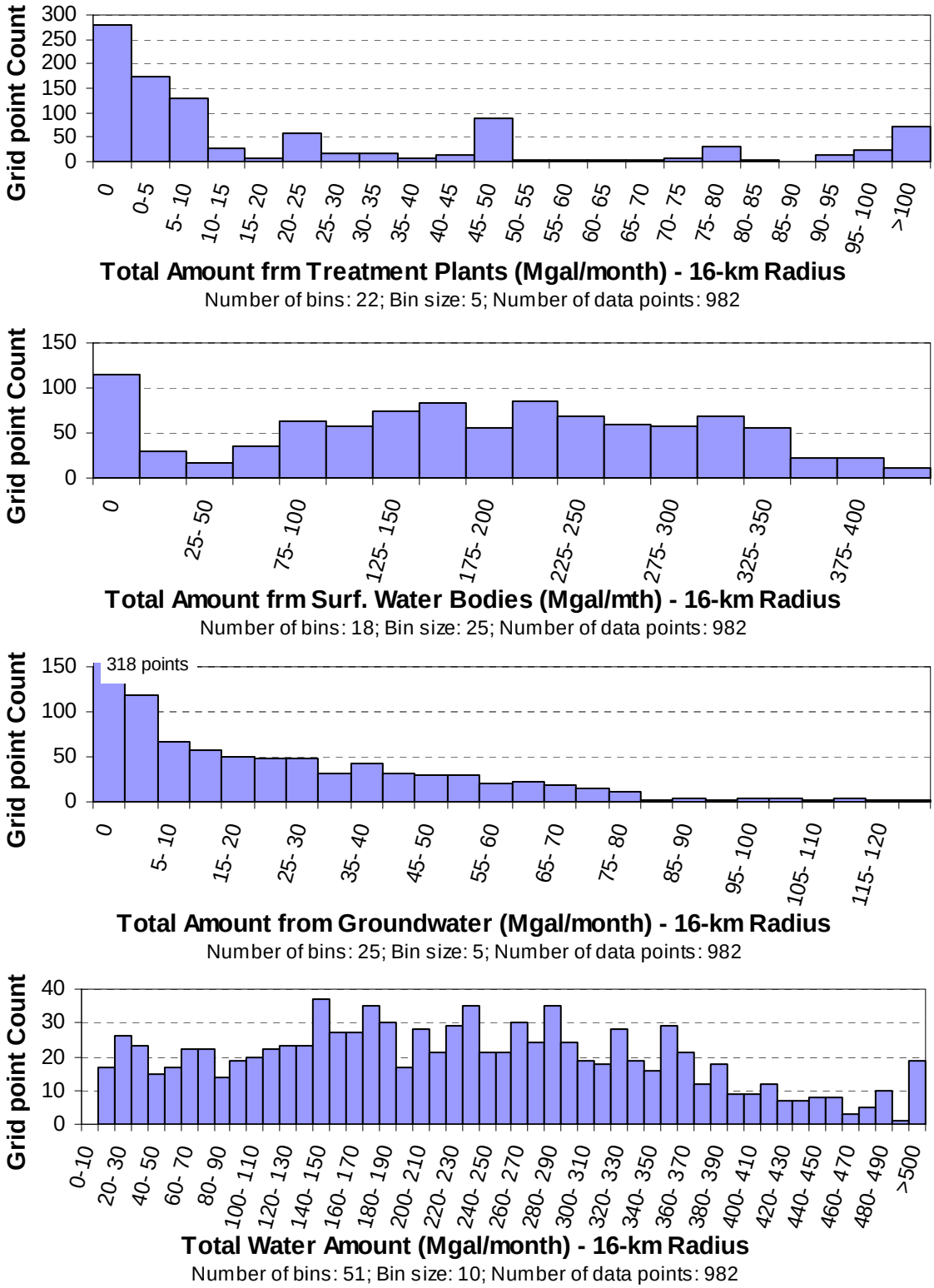
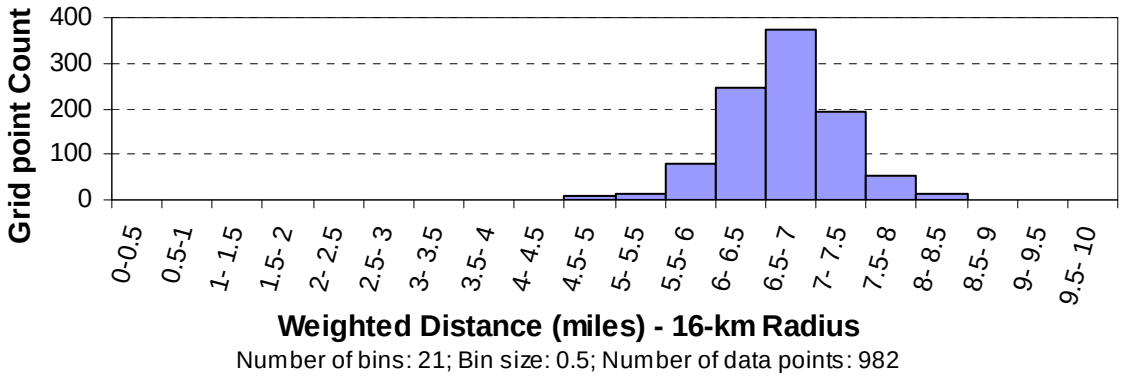
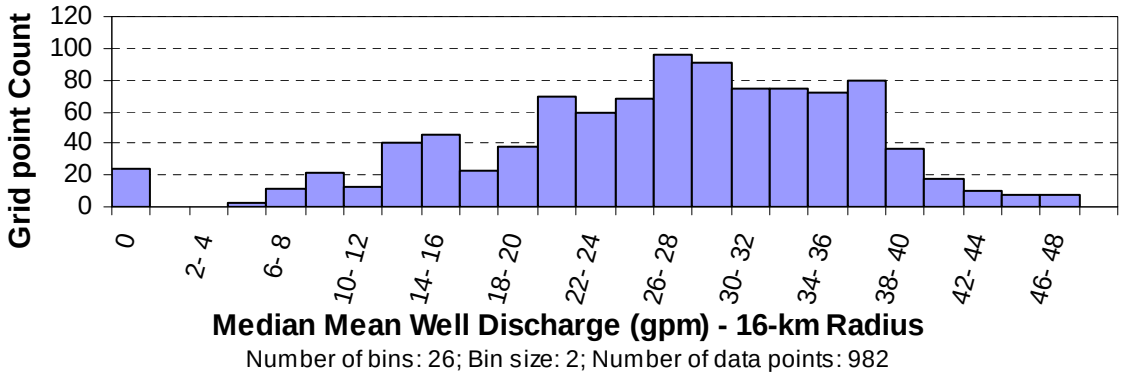


Figure 11. Distribution of available water within a 16-km radius from treatment plants, surface water bodies, aquifers, and combined sources.



(a)



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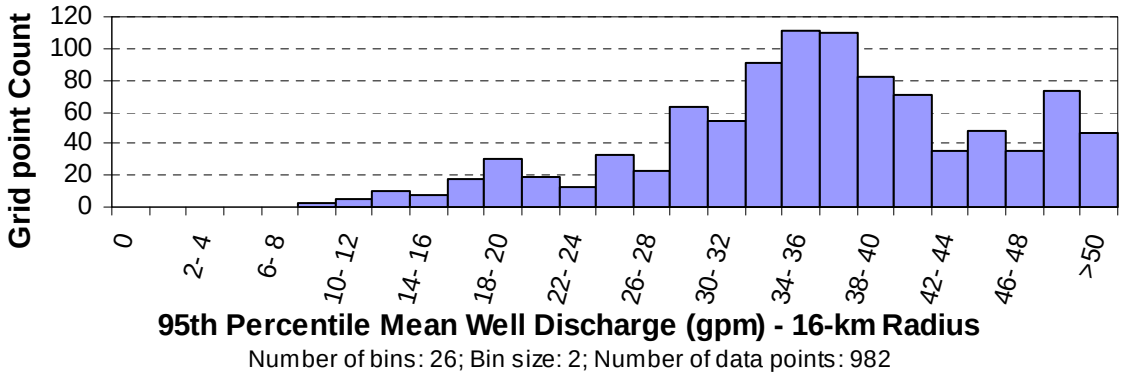

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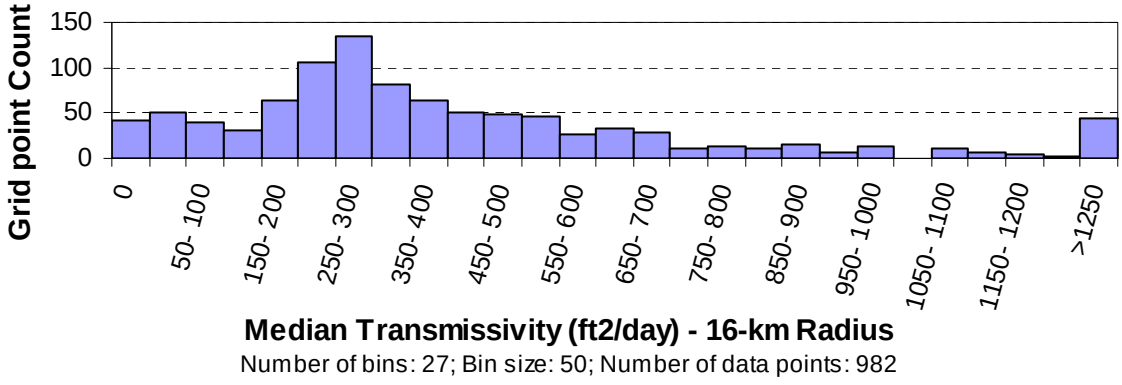


(d)

Figure 12. Distribution of weighted distance, median and 95th percentile mean well discharge, and median transmissivity in a 16-km radius.

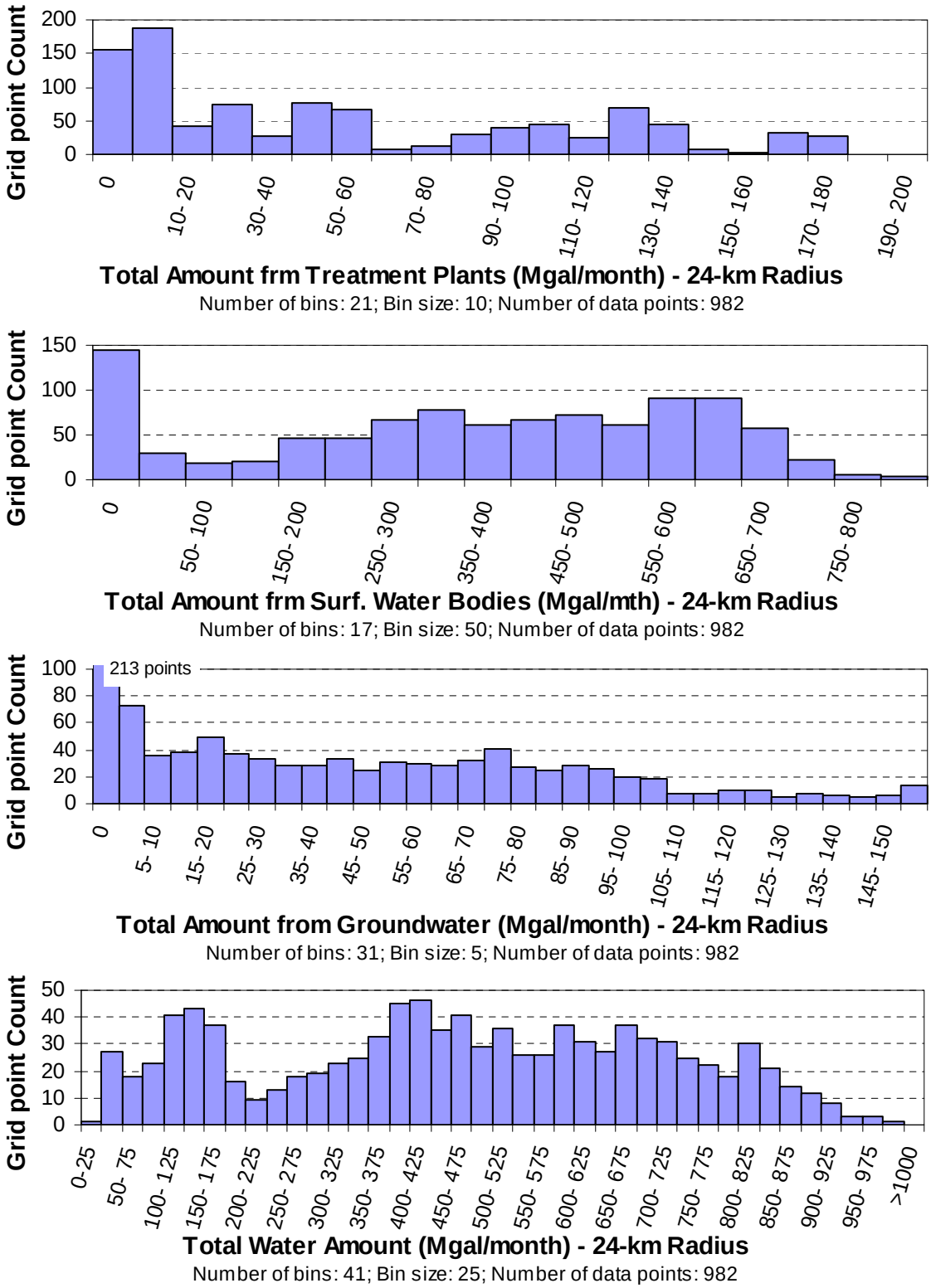
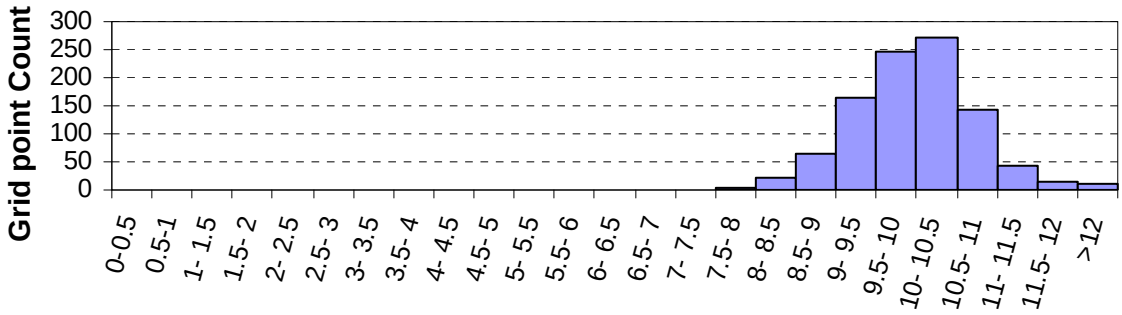
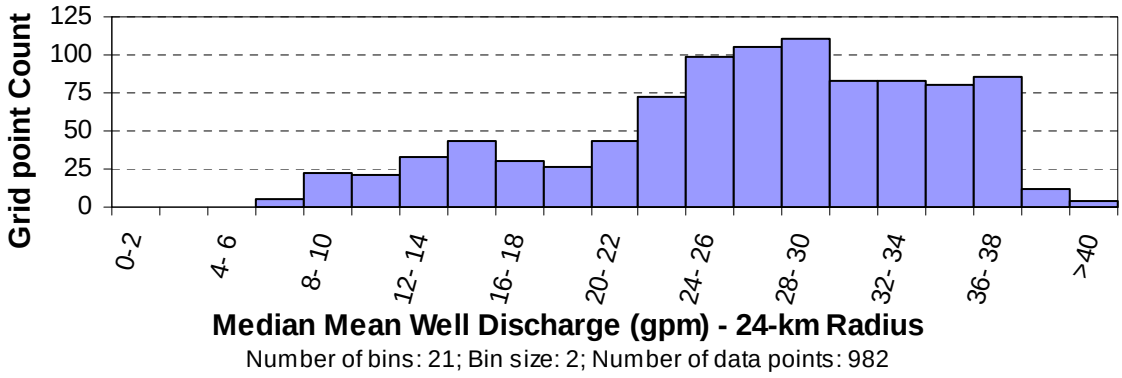


Figure 13. Distribution of available water within a 24-km radius from treatment plants, surface water bodies, aquifers, and combined sources.



(a)



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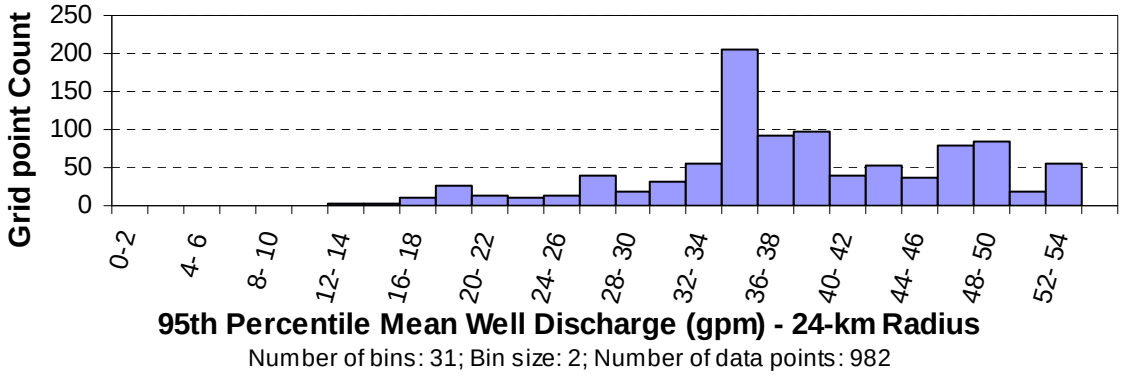

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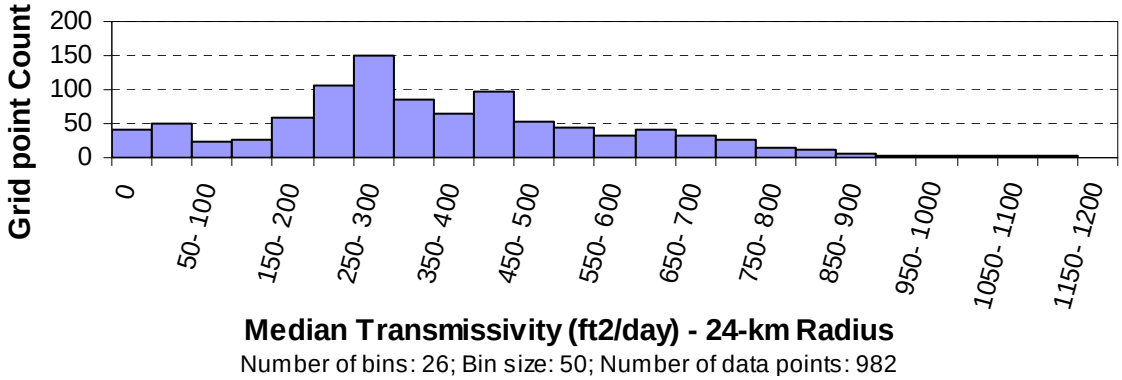


(d)

Figure 14. Distribution of weighted distance, median and 95th percentile mean well discharge, and median transmissivity in a 24-km radius.

4 Technical and Economic Feasibility

Table 5 suggests that, in 50% of cases, at least 42.7 million gallons will be available per month in any 8-km (5-mile radius, that can be understood as a square with 8.85- mile sides without loss of generality). To put the matter in perspective, assuming a spacing between laterals of 1,000 feet, an average water intensity of 1000 gal/foot, and a maximum coverage of laterals for gas production yields 5280×5280 ft^2 / 1000 ft × 1000 gal/ft, that is, a maximum water use of 27.88 million gallons per square mile or 2190 million gallons to be distributed through time. Assuming an active life of 20 years of fracking in a given area, this level of water use amounts to a water use of 9.1 million gallons per month.

Taking the analysis further, in "normal conditions" with wet and dry cycles the amount of water seems adequate, however it is very dispersed and distributed spatially, at the exception of a few larger waste water treatment plants. In addition, surface water does represent a significant fraction of the available water. In times of sustained drought (>2 years), there is no surface water available and the groundwater resource is somewhat reduced as all users relying on surface water will fall back on groundwater. Waste water treatment plant outfall availability will also be reduced because water conservation will be emphasized and because cities and towns may preempt the use of the treated water. Table 5 suggests that a drought scenario will prevent operators from using local water. The median for the 8-km radius case shows that only surface water is a plausible source of water, it will not be available during a drought. Operators would have to go further out from the well location to access the needed water. The median available water for the 16-km case is 223 million gallon per month of which ~80% is surface water not accessible in time of drought, the remainder of about 30 million gallons consists of approximately 60% groundwater and 40% treatment plant outfall (note that the median of the sum is not necessarily the sum of the medians). Because all of it will not be accessible, the amount of water theoretically available becomes very close to the amount required by operators.

What is missing from this document is a detailed economic analysis, the discussion above does not include the possibility that not all the water is actually accessible to operators because of land ownership or other factors. The extreme fragmentation of the resource also suggests a pipeline gathering system greater than 60 miles per well or equivalently trucking the water from many different places, many undoubtedly without easy road access.

Overall, in normal conditions, operators should find enough water from surface water bodies complemented by groundwater and possibly waste water treatment plant outfall. The major issue is the extreme fragmentation of the resource among many small water bodies, low-yield water wells, and some waste water streams, generating a collection cost that may not be overcome in the less productive areas of the play. In addition, drought conditions will seriously handicap production of these western counties of the Barnett play unless water is brought in from far away from either conventional or possibly alternative resources.

5 References

Estepp, J. D., 2010, Determining Groundwater Quality Using Geophysical Logs. Draft report 2010-XX., Austin, Texas Commission on Environmental Quality, 86p.

Nicot J.-P., Hebel A., Ritter S., Walden S., Baier R., Galusky P., Beach J., Kyle R., Symank L., Breton .C., 2011, Current and Projected Water Use in the Texas Mining and Oil and Gas Industry. Bureau of Economic Geology, The University of Texas at Austin, report prepared for the Texas Water Development Board, pp. 357.

TWDB, 2012, Water For Texas, 2012 State Water Plan

6 Attachment A: Water Modeling Tool Documentation

Water Analysis Tool – Documentation

by Gil Strassberg, Consultant to UT-BEG

December 2011

[IMPORTANT NOTE added by PI: This tool was developed for the only purpose of facilitating the academic research performed specifically for this RPSEA project by UT-BEG staff– It was not designed and is not meant to be used by other groups. As such, this documentation provides an overview of the tool instructions but is not necessarily complete.]

1. General:

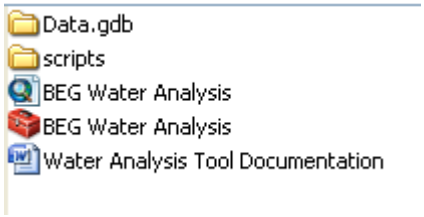
The tool creates summaries for a number of types of features surrounding a selected point.

The process includes:

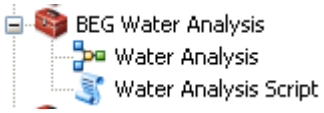
1. User specifies coordinates for a new point to be assessed.
2. User specifies a search radius around the point.
3. A search radius is created around the assessed point.
4. Features (WTP, WB, and model points) are selected within the search radius.
5. Summary statistics are calculated.
6. A new point is created in the Assessed Points feature class.
7. Summary statistics are written to appropriate fields in the Assessed Points feature class.
8. Summary report is created.

2. Data and Tools:

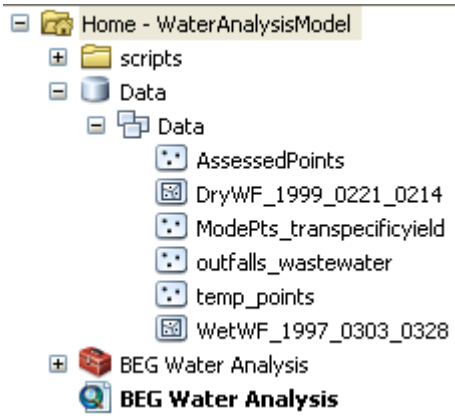
- The tool and data should be structured in the following data structure:



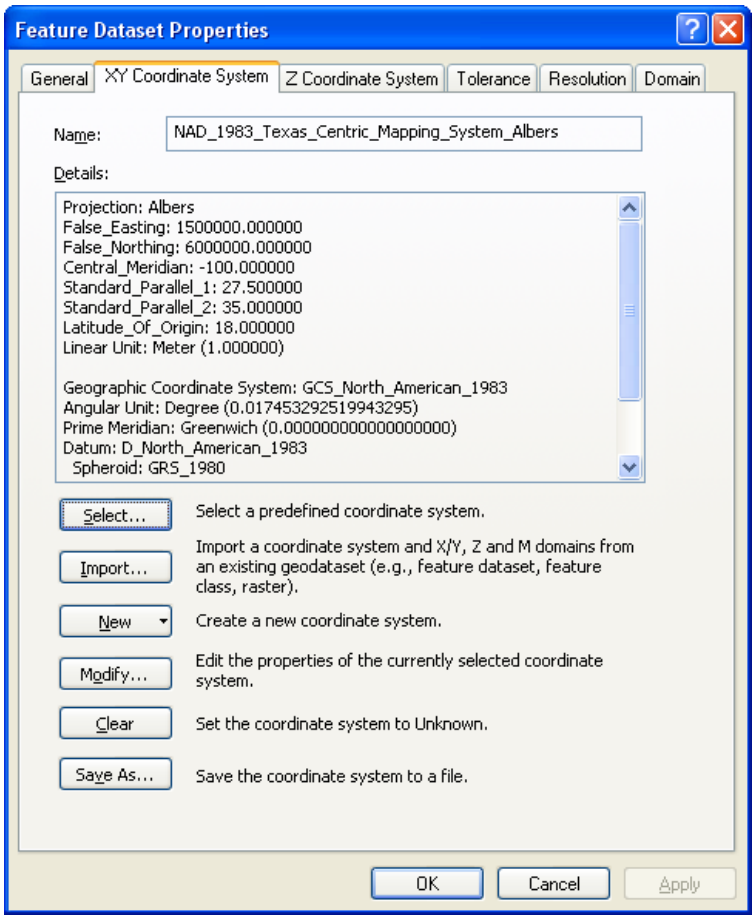
-
- The tool is coded as a Python script that is wrapped in an ArcGIS Script tool and Model.
- The script is located in the scripts folder.
- The BEG Water Analysis toolbox contains an ArcGIS Script tool and Model (these reference the python script located in the scripts folder).



- The data for running the tool is located in the **Data** file geodatabase.



- The necessary feature classes are located in the Data feature dataset. All the datasets have the same spatial reference.



3. Methodology:

The tool is based on 4 input feature classes:

1. Water Treatment Plant (WTP):
    - This feature class represents the volume of water from treatment plants.
    - Each feature in the feature class should have a **Volume** field representing the volume from the treatment plant in MGD.
    - An average weighted distance is calculated for the points within the search radius. The formula used to weigh the distance is:

      $$D_{weighted} = \frac{\sum d_i \times V_i}{\sum V_i}$$

      Where d_i is the distance from each WTP to the assessed point and V_i is the volume of the WTP.
2. Water Bodies (WB) for wet period:
    - Each water body should have a field named **Hectares** that gives the area of the water body.
    - The volume of water in the WB is calculated by multiplying the area of the features by a specified height.
    - An average weighted distance is calculated for the WB within the search radius. The formula used to weigh the distance is:

      $$D_{weighted} = \frac{\sum d_i \times V_i}{\sum V_i}$$

      Where d_i is the distance from the centroid of each WB to the assessed point and V_i is the volume of the WB.

      The volume of the WB is calculated by:

      $$V_{WB} = A_{hectares} \times 10{,}000 \times H_{WB}$$

      Where $A_{hectares}$ is the area of the WB read form the Hectares field and H_{WB} is the height specified for the WB.
3. Water Bodies (WB) for dry period:
    - Each water body should have a field named **Hectares** that gives the area of the water body.
    - The volume of water in the WB is calculated by multiplying the area of the features by a specified height.
    - An average weighted distance is calculated for the WB within the search radius (equations are similar to the for the wet period).
4. Groundwater model points:
    - Each point should have three fields: **Transmissivity**, **well_yield**, and **top33**.

- Values in the top33 field are 0 or 1, 0 specifying that the point is not within the top 33 percent of values and 1 that it is within the top 33 percent of the values.
- For each set of the selected points percentiles (5, 30, 50, 70, and 95) are calculated and the number of top33 points is counted.
- The number of points and the average distance from the assessed point is reported.

4. Running the tool:

Tool input parameters include:

1. **Assessed Points** – point feature class where the output points will be created. The Assessed Points feature class must include a set of fields so the tool can write the summary statistics to the fields. The fields include:

Field name	Type	Description
Pt_X	Double	X coordinate of the assessed point
Pt_Y	Double	Y coordinate of the assessed point
Search_Radius	String	Search radius specified by user
WTP_Count	Double	Count of WTP features within the search radius
WTP_Volume	Double	Calculated volume of WTP features within the search radius
WTP_W_Dist	Double	Volume weighted distance of WTP features within the search radius
Wet_WB_Count	Double	Count of WB within the search radius for the wet scenario
Wet_WB_Area	Double	Area of WB within the search radius for the wet scenario
Wet_WB_Volume	Double	Volume of WB within the search radius for the wet scenario
Wet_WB_W_Dist	Double	Volume weighted distance of WB features within the search radius for the wet scenario
Dry_WB_Count	Double	Count of WB within the search radius for the dry scenario
Dry_WB_Area	Double	Area of WB within the search radius for the dry scenario
Dry_WB_Volume	Double	Volume of WB within the search radius for the dry scenario
Dry_WB_W_Dist	Double	Volume weighted distance of WB features within the search radius for the dry scenario
GW_Pt_Count	Double	Count of groundwater model points (cells) within the search radius
GW_Pt_Avg_Dist	Double	Average distance of groundwater model points (cells) within the search radius
GW_Pt_Top33_Count	Double	Count of groundwater model points/cells that are within the top 33 percent (top33 field =1) within the search radius
GW_wy_p5	Double	Water yield value at the 5th percentile from the groundwater model points within the search radius

GW_wy_p30	Double	Water yield value at the 5th percentile from the groundwater model points within the search radius
GW_wy_p50	Double	Water yield value at the 50th percentile from the groundwater model points within the search radius
GW_wy_p70	Double	Water yield value at the 70th percentile from the groundwater model points within the search radius
GW_wy_p95	Double	Water yield value at the 95th percentile from the groundwater model points within the search radius
GW_tr_p5	Double	Transmissivity value at the 5th percentile from the groundwater model points within the search radius
GW_tr_p30	Double	Transmissivity value at the 30th percentile from the groundwater model points within the search radius
GW_tr_p50	Double	Transmissivity value at the 50th percentile from the groundwater model points within the search radius
GW_tr_p70	Double	Transmissivity value at the 70th percentile from the groundwater model points within the search radius
GW_tr_p95	Double	Transmissivity value at the 95th percentile from the groundwater model points within the search radius

2. **Temporary point features** – feature class holding a temporary point that is being assessed. The temporary point is overwritten every time the tool is executed.

3. **X Coordinate** – X coordinate of the assessed point to b created. Make sure the coordinates are in the correct map units (for the base data provided with the tool this is meters, based on the Texas_Centric_Mapping_System_Albers spatial reference).

4. **Y Coordinate** – Y coordinate of the assessed point to b created. Make sure the coordinates are in the correct units for the base data provided with the tool this is meters, based on the Texas_Centric_Mapping_System_Albers spatial reference).

5. **Search Radius** – the search radius for selecting features (WTP, WB, model points) around the assessed point.

6. **Water Height Wet Period** – height of water in WB for wet period. **Value should be in meters**.

7. **Water Height Dry Period** – height of water in WB for dry period. **Value should be in meters**.

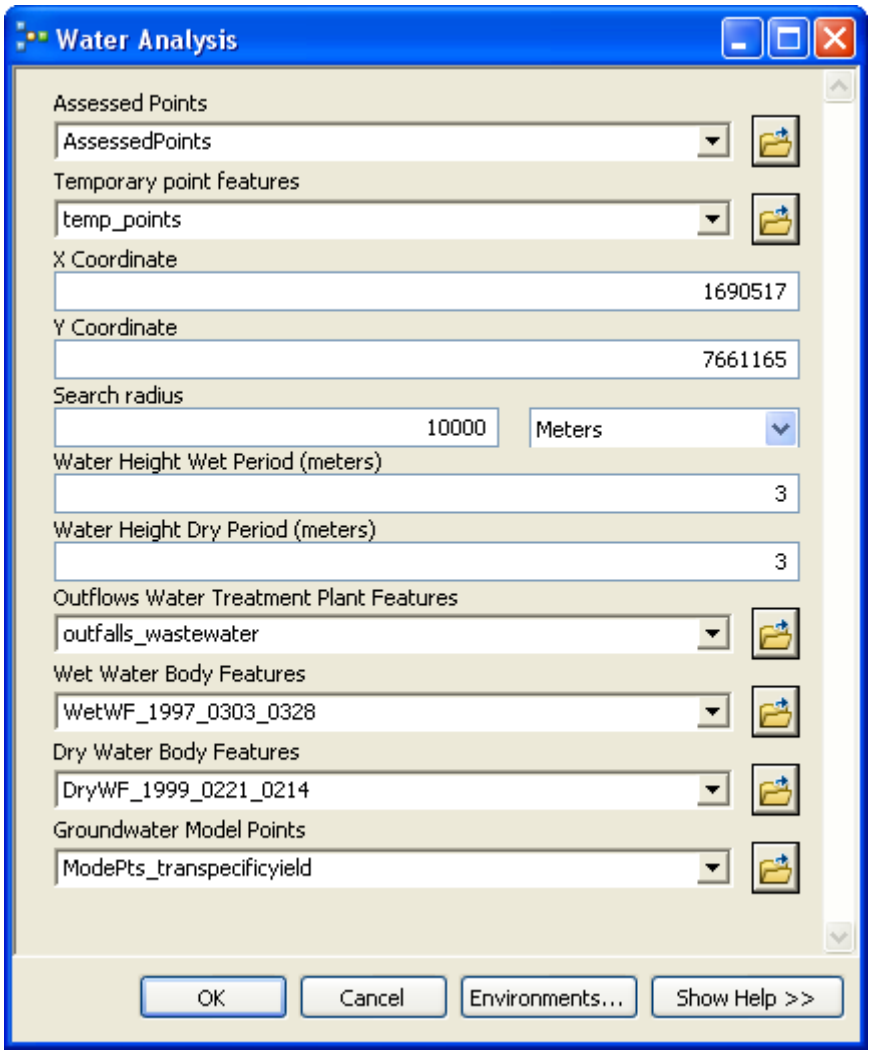
8. **Outflows Water Treatment Plant Features** – Point features representing WTP.

9. **Wet Water Body Features** – Polygon features representing water bodies during wet periods.

10. **Dry Water Body Features** – Polygon features representing water bodies during dry periods.

11. **Groundwater Model Points** – point features representing groundwater model nodes at which aquifer properties are calculated.

The following figure shows an example of parameters used to run the model.



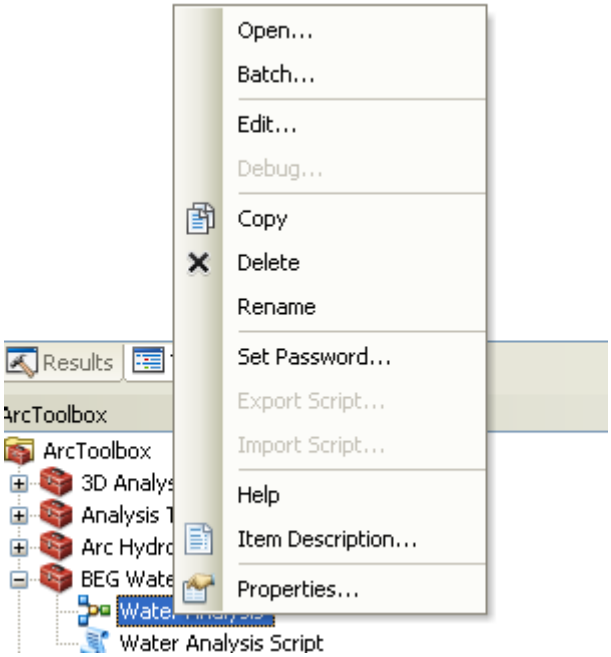
5. Tool summary report:

The model generates a summary report within the model results window. An example of the summary report is shown in the following figure.

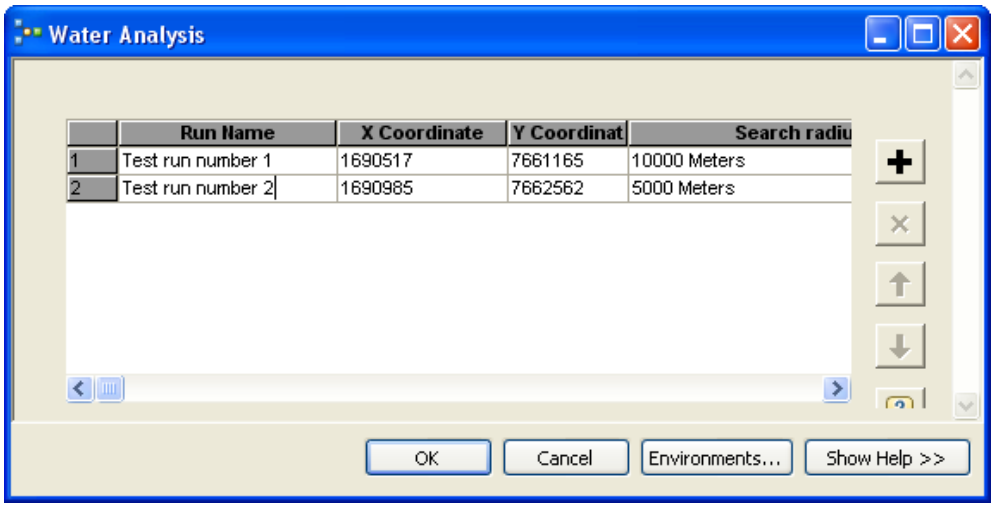
6. Running the tool in batch mode

The tool can be run in batch mode to process a set of points by using the built-in Batch process available for any ArcGIS model. You can use the following the steps to batch run the tool:

1. Open the Batch interface by right clicking on the model and selecting **Batch…**



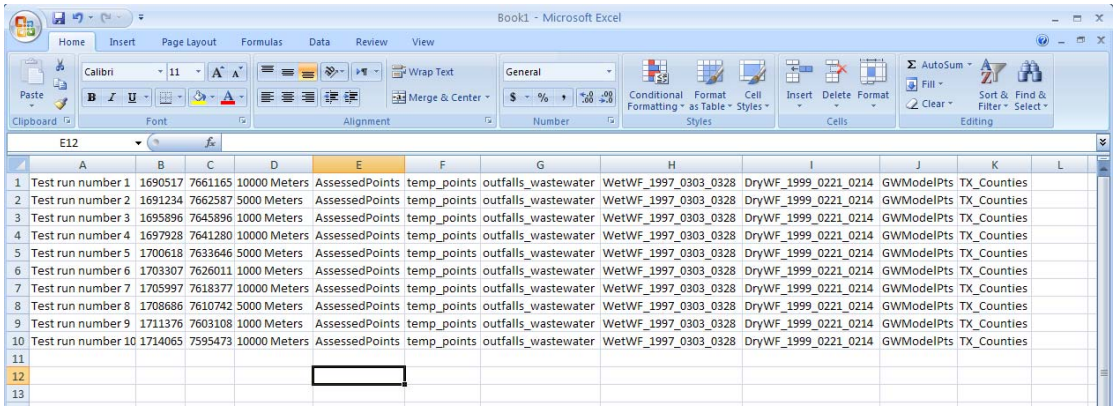
2. Fill in the parameters. You can add rows using the Add Row button ( ).



3. Select OK to run the tool in batch mode.

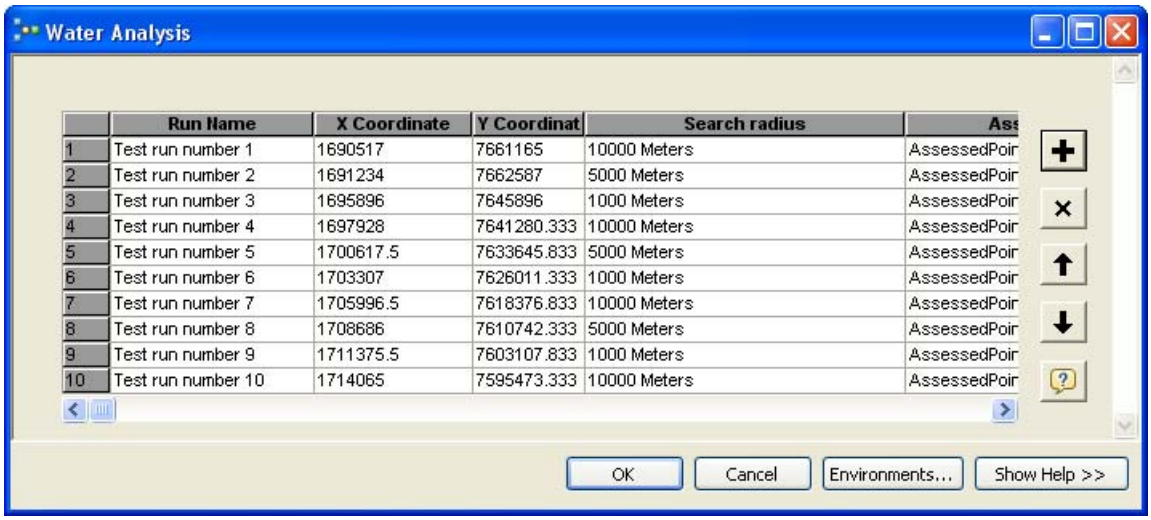
You can also prepare the inputs for the batch process in Excel and copy them over to the ArcGIS batch interface:

1. In the batch mode interface, select the row with the filled in parameter values and copy/paste to excel.
2. Fill in as many rows you want in excel.



	A	B	C	D	E	F	G	H	I	J	K	L
1	Test run number 1	1690517	7661165	10000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	
2	Test run number 2	1691234	7662587	5000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	
3	Test run number 3	1695896	7645896	1000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	
4	Test run number 4	1697928	7641280	10000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	
5	Test run number 5	1700618	7633646	5000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	
6	Test run number 6	1703307	7626011	1000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	
7	Test run number 7	1705997	7618377	10000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	
8	Test run number 8	1708686	7610742	5000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	
9	Test run number 9	1711376	7603108	1000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	
10	Test run number 10	1714065	7595473	10000 Meters	AssessedPoints	temp_points	outfalls_wastewater	WetWF_1997_0303_0328	DryWF_1999_0221_0214	GWModelPts	TX_Counties	

3. In ArcGIS batch mode use the Add Row button ( ) to add as many rows you need (this should match the number of rows you created in Excel). Tip – you can create a number of rows (e.g. 10 rows) select all of them and then every time you use the Add Row button it will add that number of rows.
4. Copy and paste from Excel to the Batch form (you need to select the rows in batch mode and then select **Paste** to paste the values from Excel into the selected rows).



	Run Name	X Coordinate	Y Coordinat	Search radius	Ass
1	Test run number 1	1690517	7661165	10000 Meters	AssessedPoir
2	Test run number 2	1691234	7662587	5000 Meters	AssessedPoir
3	Test run number 3	1695896	7645896	1000 Meters	AssessedPoir
4	Test run number 4	1697928	7641280.333	10000 Meters	AssessedPoir
5	Test run number 5	1700617.5	7633645.833	5000 Meters	AssessedPoir
6	Test run number 6	1703307	7626011.333	1000 Meters	AssessedPoir
7	Test run number 7	1705996.5	7618376.833	10000 Meters	AssessedPoir
8	Test run number 8	1708686	7610742.333	5000 Meters	AssessedPoir
9	Test run number 9	1711375.5	7603107.833	1000 Meters	AssessedPoir
10	Test run number 10	1714065	7595473.333	10000 Meters	AssessedPoir

7. Modifying water height parameters for water body volume calculations

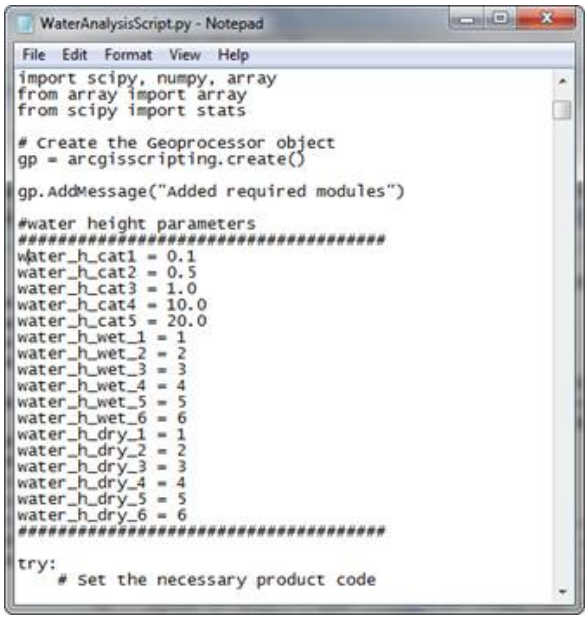
Water body volumes are calculated by multiplying the area of the water body by a specified height. The heights vary based on the size of the water body and based on the wet and dry scenarios.

Water bodies are divided into six categories based on the area (A) of the water body:

- A < 0.1 hectares
- 0.1<A < 0.5 hectares
- 0.5<A < 1.0 hectares
- 1.0<A < 10 hectares
- 10<A < 20 hectares
- 20 < A hectares

The water depth associated with each category can be modified by editing the Python script behind the model. The script is located in the Scripts folder. To modify the heights:

1. Open the script in any text editor.
2. Scroll down to the section with the title “water height parameters. You can modify the height parameters for the wet and dry periods. There are 6 values for the 6 different categories outlined (0.1 acres, 0.5, 1.0, 10, and 20 hectares).
3. Modify the parameters named water_h_wet_X or water_h_dry_X where X is the category (e.g. X = 1 for the first category and X = 6 for the last category).



4. Save and close the script file. You can now run the model with the modified height parameters.

7 Attachment B: Waste Water Treatment Plant Inventory

Documentation of the treatment plant subtask is presented in Section 6 and Appendix A of Attachment E.

8 Attachment C: Surface Water Body Study

This attachment details steps followed to assess the amount of water available from small water bodies. The following sections show how satellite imagery was used to count water bodies through the years and sort them according to size. However there is an important missing element that was not accessible to us during the study: average depth. Although it is conceivable to use satellite data in terms of attenuation contrast of different wavelengths and similar metrics, they are heavily impacted by water turbidity, making an automated approach practically infeasible. Physically measuring depth of thousands of water bodies was obviously not a viable solution either. A solution that could lead to accurate depth estimates but applicable only to impoundments consists in obtaining topography of the bottom of the water body before it is impounded and in relating it to the current water level. It was not implemented for lack of time. The approach we used was to rely on the fairly narrow range of average depths known to occur from small stock ponds to large lakes and reservoirs in the state. Table 6 shows average depth compiled from an array of state agencies. Average depth is very well constrained and stays between a very small range independently of the size of the water body (Figure 15) from 10 to 45 feet, even including large water bodies outside of the area of interest (not shown). Smaller stock ponds are generally constructed (various web sites) with an average depth of 6 feet. There is anecdotal evidence that some of the currently existing ponds, especially smaller ponds, are filled with groundwater. To limit double-counting (counted both in the surface water and groundwater categories), the basis for cumulative surface area during wet and dry periods was chosen to be prior to the expanding period of shale gas operations. We faced a difficult choice in deciding average depths to use in computing volume of water bodies (Table 7). We chose the typically reported depth for the smaller bodies and an average depth of 15 ft for the largest water bodies and a sliding scale for water bodies of intermediate size. The 15-ft value was estimated by inspection of Figure 15. Average depth during dry periods was estimated to be 2 to 3 feet below that of wet periods.

The rest of Attachment C presents methodology and results computing commutative surface area of water bodies of various size.

Table 6. Average and/or maximum depth of selected Texas water bodies

Lake	Area (acres)	County	Maximum Depth (ft)	Average Depth (ft)
Arrowhead	1848	Clay	50	17.5
Nocoma	1323	Montague	80	28
Bridgeport	11954	Wise	85	29.75
Possum Kingdom	15588	Palo Pinto	145	37*
Palo Pinto	2399	Palo Pinto	47	16.45
Mineral Wells	440	Parker	30	10.5
Weatherford	1158	Parker	39	13.65
Gransbury	8130	Hood	75	26.25
Squaw Creek	3275	Hood	125	
Pat Cleburne	1558	Johnson	64	22.4
Benbrook	3770	Tarrant	70	23*
Eagle Mountain	8738	Tarrant	47	16.45
Grapevine	7280	Denton	65	22.75

*: actual data; all others computed from average = 0.35×maximum

Source: http://www.touringtexas.com/lakes.htm;
http://www.tpwd.state.tx.us/fishboat/fish/recreational/lakes/

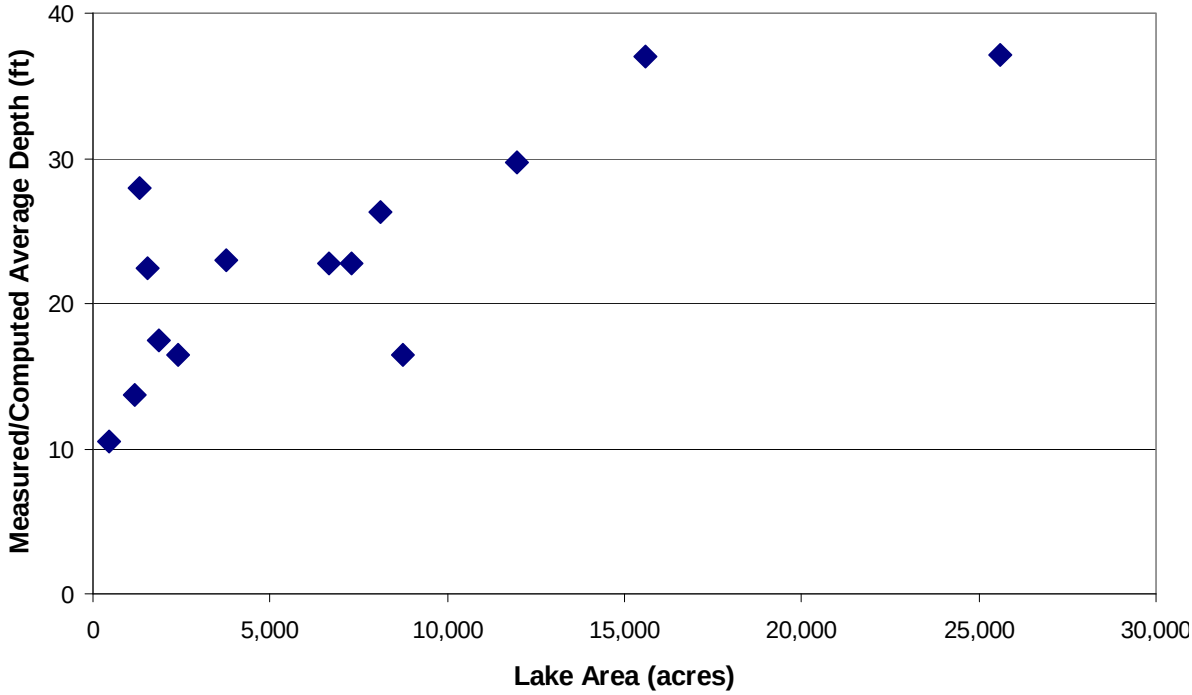


Figure 15. Crossplot of area vs. average depth of large water body within the area of interest

Table 7. Water depth estimates as a function of water body size

Pond area (ha)	Feet		Meters	
	wet	dry	wet	dry
<0.1	6	3	1.83	0.91
0.1-0.5	6	5	1.83	1.52
0.5-1	9	7	2.74	2.13
1-10	12	9	3.66	2.74
10-20	12	9	3.66	2.74
>20	15	12	4.57	3.66

1 ha = 10,000 m^2 = 10,000 m^2 / 4047 m^2/acres = 2.47 acres

1 acre =0.405 ha; 20 ha =~50 acres

Technical and Economic Feasibility of Utilizing Alternate Sources of Water in the Barnett Shale Area
Funded by Gas Technology Institute (GTI)
P.I.: Jean-Philippe "JP" Nicot, Bureau of Economic Geology

Progress Report: December 9, 2011
Teresa Howard, Center for Space Research

Task 2: Inventory Water Sources

Task 2-1: The extended inventory of non-state regulated surface water features in the footprint of the Barnett Shale in Montague, Wise, Parker, Hood, Somervell, Jack, Palo Pinto, Erath, Bosque, and Hill counties is nearing completion. Three counties, Tarrant, Johnson and half of Denton, were added to the analysis area of interest (Figure 1).

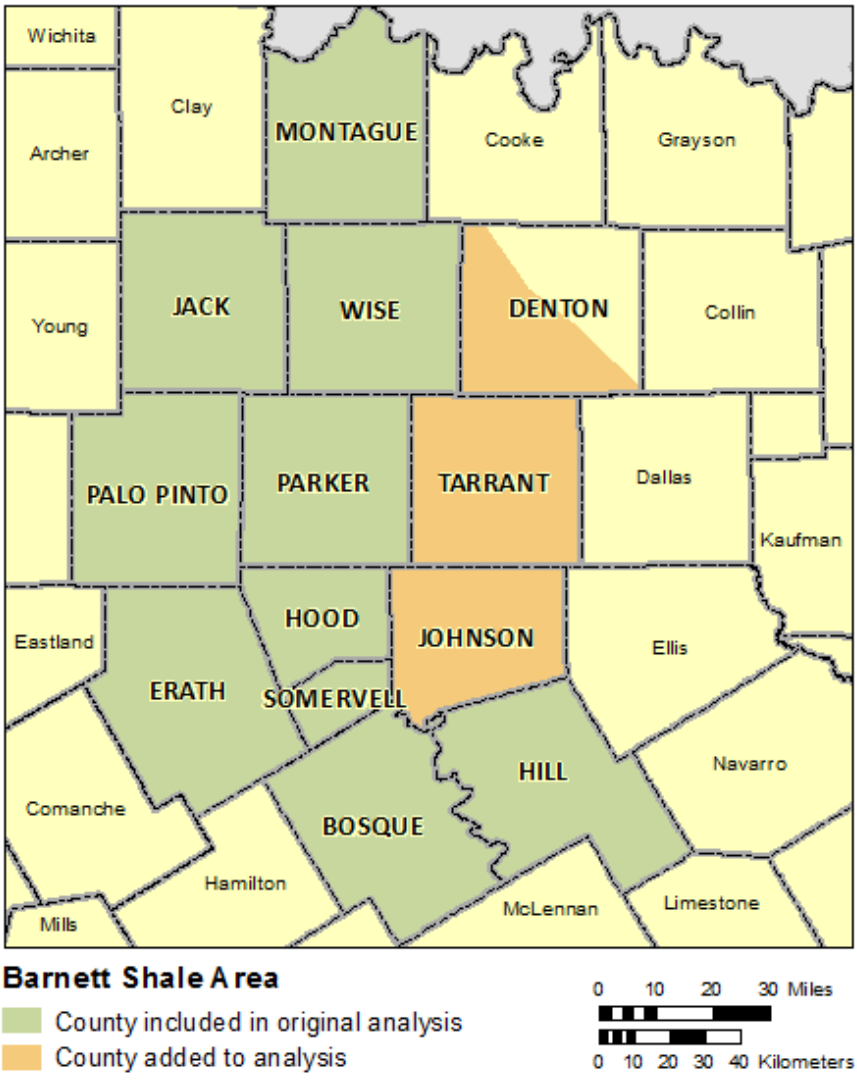


Figure 1. Counties included in satellite image analysis.

Two Landsat satellite passes, typically called paths, cover the area of interest, including the additional three counties. The passes are path 28 on the west and path 27 on the east (Figure 2). Two Landsat images per path are required to cover the area of interest. Jack and Palo Pinto counties and most of Erath and Montague counties are contained within Path 28. Montague, Wise, Denton, Parker, Tarrant, Hood, Somervell, Johnson, Bosque and Hill counties are contained within Path 27.

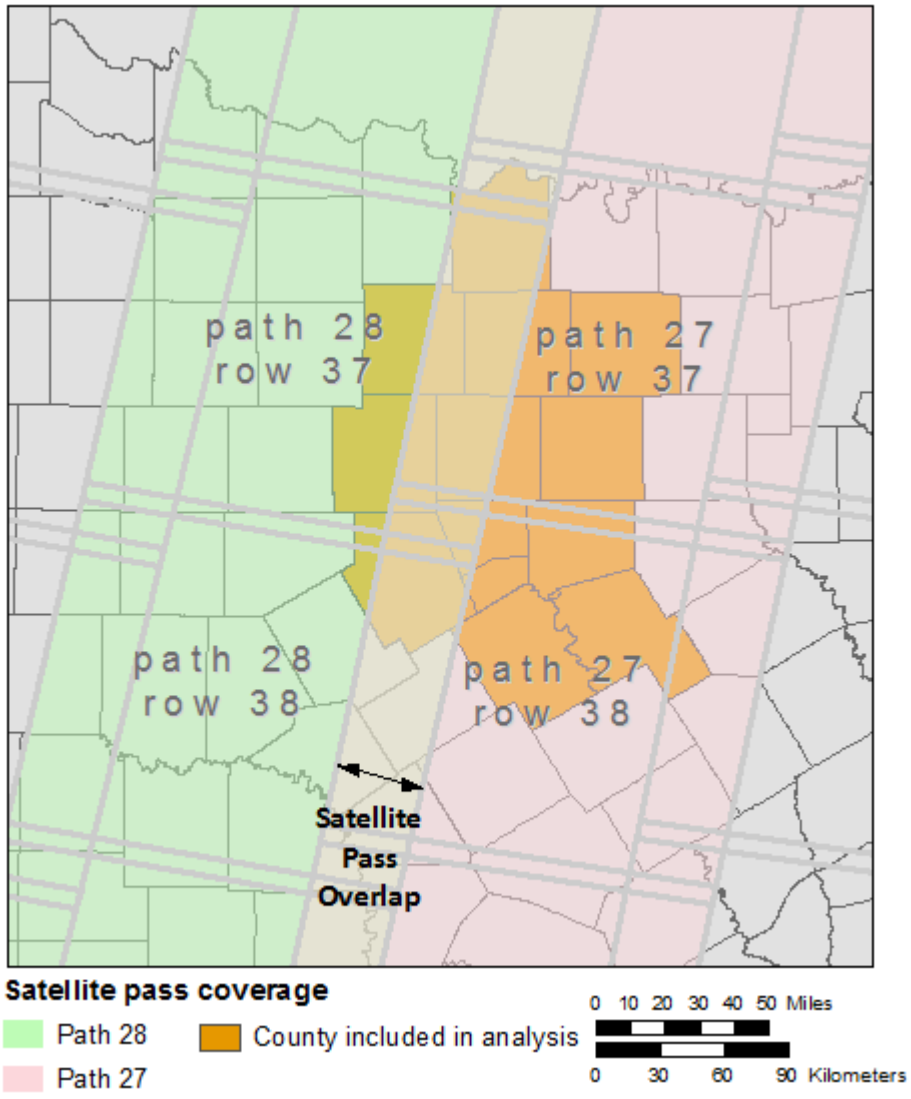


Figure 2. Landsat satellite passes in relationship to study area.

Previously, ten dates for each path were selected for the analysis. For the follow on analysis, the three additional counties contained within Path 27 were processed for the dates chosen previously (Figure 3). New dates were chosen for the years 2008, 2009 and 2010. A total of 23

possible dates were identified for path 28 and 21 possible dates were identified for path 27. Candidate images were downloaded and screened for cloud cover. They were separated into three categories based on suitability for the analysis. Category 1, the best candidates, included 12 scenes for path 28 and 11 scenes for path 27. Category 2 included six and three scenes

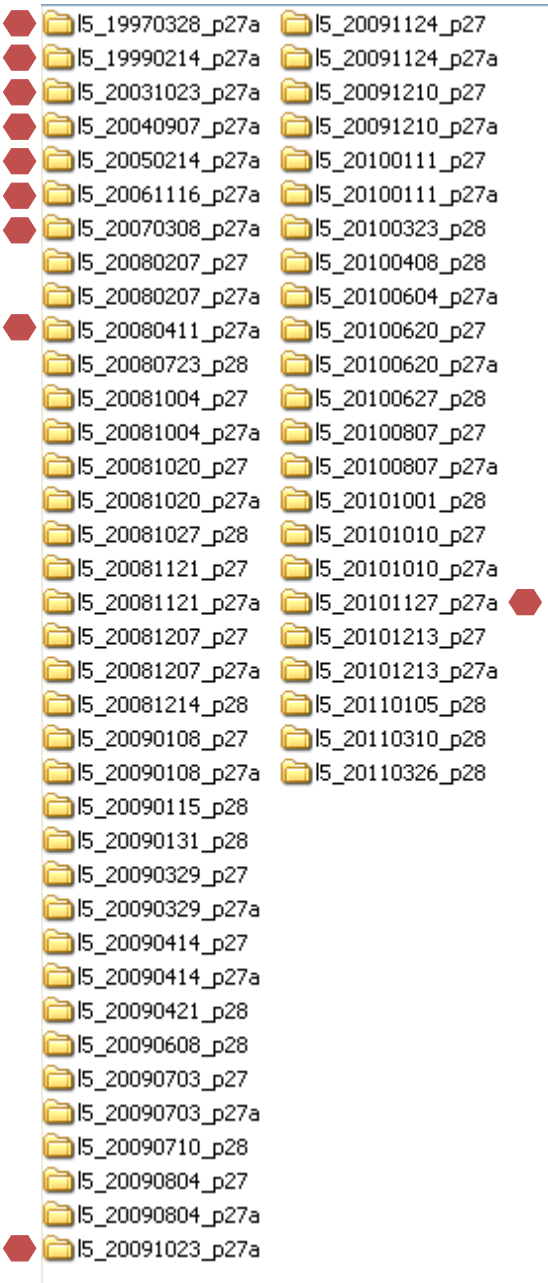


Figure 3. Landsat 5 Thematic Mapper collection dates chosen for the extended analysis. Entries marked by red hexagons indicate areas added to analysis for the dates chosen for the previous analysis. P27a refers to the 3 counties added to the analysis.

respectively for paths 28 and 27. Twelve marginally suitable scenes were delegated to Category 3 and not used in the analysis. Ultimately fourteen new dates were chosen for path 28 and seventeen new dates were selected for path 27. One early January 2011 date was paired with a mid-December 2010 date, but no other 2011 images were included in the final analysis. Subsequently, certain county coverages were eliminated from the final dataset, primarily due to excessive localized cloud cover. Table 1 gives an accounting of excluded dates and provides a key to image overlap. The tables in Appendix X, which provide the summary statistics for each county by date, include a reference to Year 1, Date 1, Year 2 and Date 2. Year and Date 1 correspond to path 28 image dates; Year and Date 2 reference path 27 dates. Figure 2 represents general overlap. For the analysis, however, all overlap was trimmed to match a narrower strip, as overlap varies with each satellite pass. In the earlier analysis, overlap was preserved in all but three counties (Figure 4). In the follow-on analysis, overlap was kept only for the two counties that required it, Montage and Erath, since dates were not paired well for all cases.

Table 1. Image dates excluded from final analysis by county. Overlap status relates to the dates shown in the tables of Appendix X.

County	Count	Excluded Dates	Overlap Status
Bosque	24	12/10/2009, 8/7/2010, 10/10/2010	None: Path 27 only
Denton	28	none	None: Path 27 only
Erath	27	8/7/2010	Always: Path 28 & Path 27
Hill	24	12/10/2009, 8/7/2010, 10/10/2010	None: Path 27 only
Hood	27	none	Overlap 1st analysis; Path 27 only for new analysis
Jack	23	none	Overlap 1st analysis; Path 28 only for new analysis
Johnson	28	none	None: Path 27 only
Montague	29	none	Always: Path 28 & Path 27
Palo Pinto	21	7/23/2008, 6/27/2010	Overlap 1st analysis; Path 28 only for new analysis
Parker	27	none	Overlap 1st analysis; Path 27 only for new analysis
Somervell	27	none	None: Path 27 only
Tarrant	27	11/27/2010	None: Path 27 only
Wise	27	none	Overlap 1st analysis; Path 27 only for new analysis

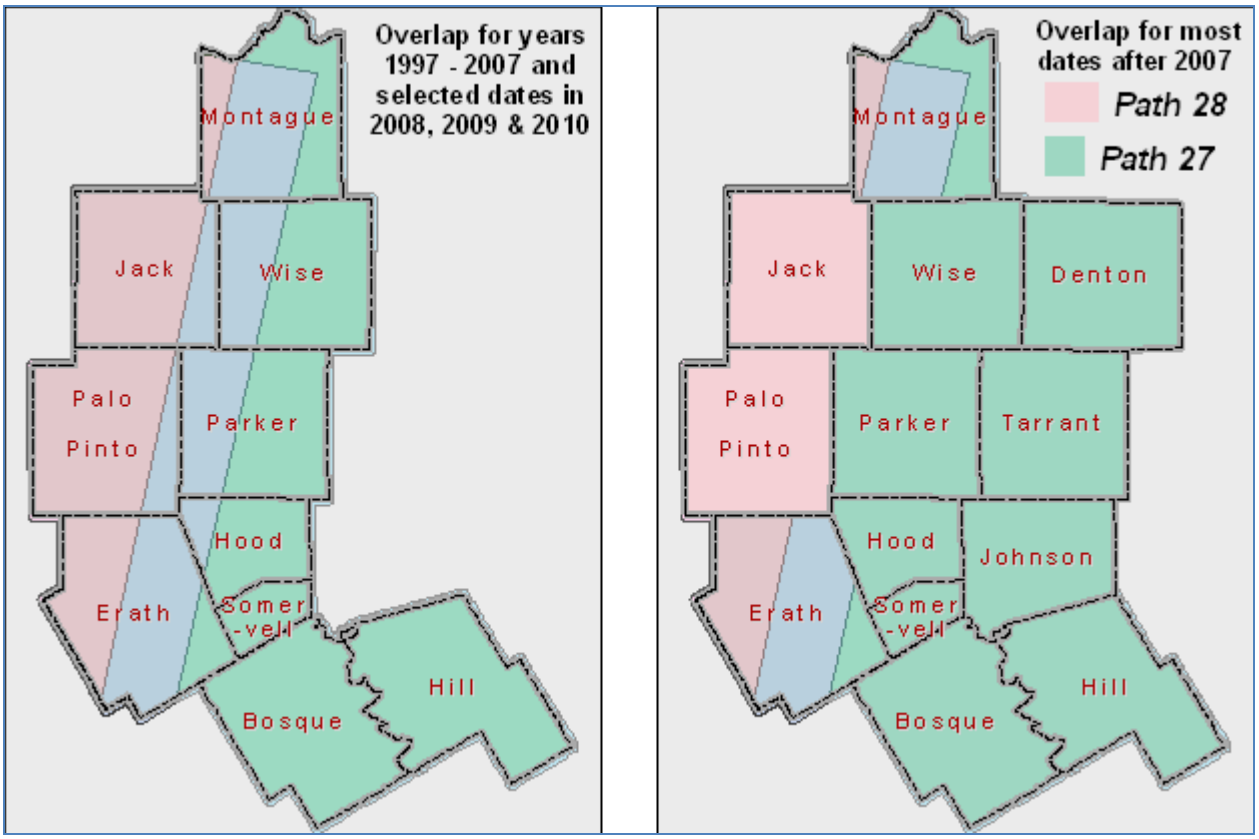


Figure 4. Overlap in the original and the follow-on analysis.

The Landsat 5 Thematic Mapper data were preprocessed and mosaicked by path (Figure 2). Each image mosaic was processed according to Chavez's modified COST model using procedures developed at the Arizona Remote Sensing Center (ARSC 2002). The COST model removes most atmospheric noise, adjusting individual cell values so that they are more similar across image dates (Chavez 1996, Mauz 2002).

The preprocessed data were subdivided into tiles. Next the multi-band tiles were entered into a geographic object-based image analysis program where each tile was segmented into objects of varying size and classified using an iterative process that first identifies and flags large reservoirs and then identifies water bodies of increasingly smaller sizes. Some features as small as a quarter acre were identified. Subsequent review in comparison with recent aerial photography confirmed that many of these features were correctly identified.

The geographic object-based image analysis program, eCognition, hearkens to a traditional photo-interpretation approach in that its tools can assess qualities such as shape, size, texture,

and proximity in addition to the spectral information analyzed for other automated image classification approaches. The tools can also incorporate attribute information from GIS data (Navular 2007). For the current project, reservoirs exceeding 0.2 square kilometers in size were used to initialize surface water classification. Data were segmented and re-segmented into objects of varying size. With each iteration, objects were reevaluated until final classification criteria were applied. Long, sinuous features were flagged as riparian areas, also excluded. The Normalized Difference Water Index (NWDI) was applied to separate water from non-water features and to further classify water pixels into three levels: total water, mostly water, and half water (Lei *et al.* 2009). Water features were also classified by size. The classification algorithm was developed using image subsets and subsequently applied to all image data sets in a semi-automated fashion.

Following image classification, results were exported into a common raster data format. Included in the results were objects classified as medium and large reservoirs, rivers, and other surface water features classed by area extent. The latter water features were exported as unified objects where possible and, in parallel, as objects classed by water content: 100% water, 75-99 % water content, and 50-74% water content. Water content could be used to further refine water area.

To complete the project, all tiled results were exported into a standard image processing application, ERDAS Imagine 2010, complete image mosaics were constructed. The reconstructed classified image data were exported into a vector GIS format. Within a GIS environment (ArcGIS Desktop) classification results were compared to source Landsat images and to high spatial resolution National Agricultural Imagery Program (NAIP) aerial photography, available from the Texas Natural Resources Information System as a web mapping service, commonly referred to as a WMS (USDA TNRIS 2011). GIS tools were used to eliminate most false positive objects, including cloud shadow, shadow in terrain, wet soil in fallow fields, water pooling in stream beds, river water not classified as such, large pools of water in riverine floodplains, urban infrastructure, and occasional sensor artifacts.

Once editing was completed, features identified as surface water that met project criteria were extracted. An additional step was added to the analysis for the follow-on analysis. An aggregation algorithm was applied in order to combine adjacent polygons that share a common point. Since the source information for the image analysis is pixel-based and the pixels were

not generalized during their transformation from raster to vector, resulting polygons have stair-stepped edges. Some features are formed by squares and rectangles along a diagonal. In the GIS environment, such features are not automatically unified for summary statistics. Aggregation combines the separate polygons into a single coherent object. Aggregation was applied to the results of the 10 county analyses from the earlier phase of the project as well as to the new data sets. The tables of summary statistics include data for all of the counties for all of the years and months of the analysis.

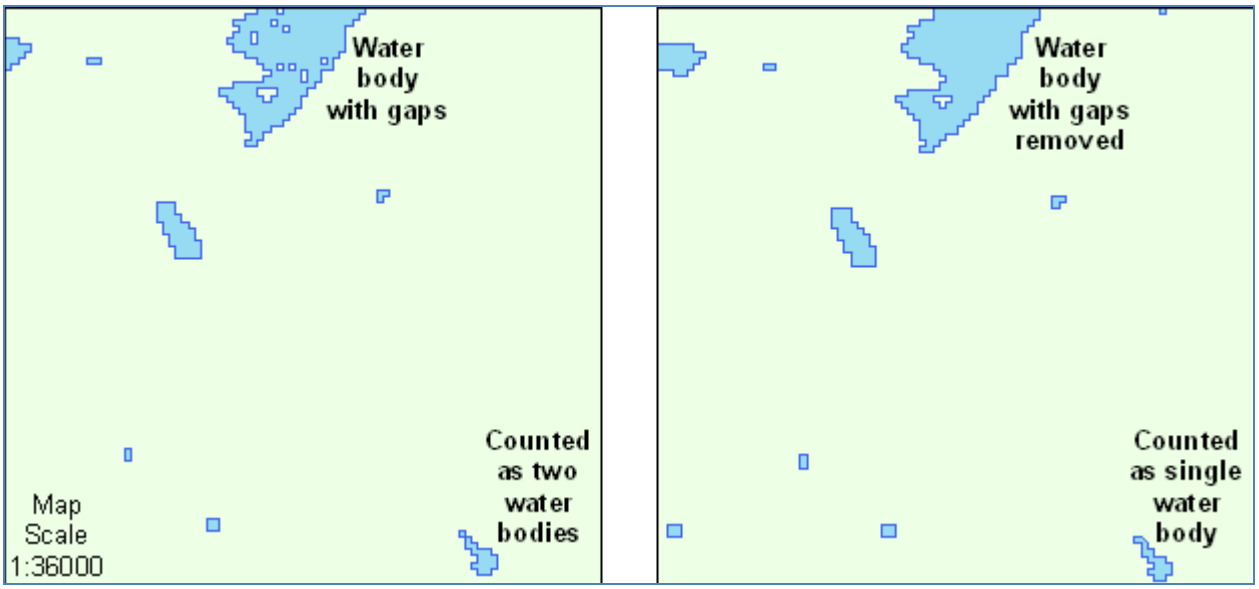


Figure 5. Example data in Somervell County on May 14, 2009 before (left) and after (right) aggregation.

The water feature data sets were clipped by county boundaries and aggregated. After aggregation, water features were classified by surface area. The class breaks are based on hectares, since the source data area units are meters. Table 2 shows the class breaks chosen. Summary statistics for each county are presented in Appendix 1.

Table 2. Relationship of class breaks used for summary statistics with pixel counts and area in acres. Acre ranges are approximate.

Class Breaks	Pixel counts	Range in acres
< 0.1 ha	1	< 0.25
0.1 - 0.5 ha	> 1 - 5	0.25 - 1.24
0.5 - 1 ha	> 5 - 11	1.25 - 2.4
1 - 10 ha	> 11 - 111	2.5 - 24
10 - 20 ha	> 111 - 222	25 - 50
> 20 ha	> 222	> 50

References

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Mauz, K. 2002. New and improved procedure for minimum DN selection for input to the COST model for atmospheric correction. Last modified on January 9, 2002. Last accessed on December 8, 2011. http://arsc.arid.arizona.edu/resources/image_processing/landsat/minimum-dn.html

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TNRIS. 2011. Web Mapping Services (WMS) URL. Last accessed on December 8, 2011. http://www.tnris.org/get-data?quicktabs_2=3

USDA. 2011. Farm Service Agency. NAIP Imagery. Last modified on August 18, 2011. Last accessed on December 8, 2011. http://www.fsa.usda.gov/FSA/apfoapp?area=home&subject=prog&topic=nai

Bosque County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	688	152.76	0.22	0.01	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	649	435.13	0.67	0.44	1.22	0.23	0.78
Year 2	1997	0.5 - 1 ha	166	282.22	1.70	1.33	2.45	0.37	1.11
Date 2	0328	1 - 10 ha	180	1213.50	6.74	2.56	24.13	5.00	21.57
		10 - 20 ha	9	319.03	35.45	27.13	43.81	5.44	16.68
		> 20 ha	5	502.28	100.46	53.26	205.83	66.70	152.56
Baseline Wet		**Total**	**1697**	**2904.91**	**1.71**	**0.01**	**205.83**		**205.82**
Year 1		< 0.1 ha	314	69.72	0.22	0.11	0.22	0.01	0.11
Date 1		0.1 - 0.5 ha	348	236.21	0.68	0.25	1.22	0.23	0.97
Year 2	1999	0.5 - 1 ha	111	195.68	1.76	1.33	2.45	0.37	1.11
Date 2	0214	1 - 10 ha	126	918.37	7.29	2.56	24.24	5.32	21.68
		10 - 20 ha	5	148.23	29.65	26.24	35.14	3.55	8.90
		> 20 ha	5	330.53	66.11	49.82	116.31	28.21	66.50
Baseline Dry		**Total**	**909**	**1898.74**	**2.09**	**0.11**	**116.31**		**116.20**
Year 1		< 0.1 ha	547	121.46	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	536	346.74	0.65	0.25	1.22	0.22	0.97
Year 2	2003	0.5 - 1 ha	129	233.74	1.81	1.33	2.45	0.37	1.11
Date 2	1023	1 - 10 ha	147	1109.64	7.55	2.56	24.57	5.67	22.02
		10 - 20 ha	6	177.94	29.66	26.69	32.94	2.50	6.25
		> 20 ha	7	482.54	68.93	51.37	109.90	20.88	58.53
		Total	**1372**	**2472.06**	**1.80**	**0.03**	**109.90**		**109.87**
Year 1		< 0.1 ha	1095	243.11	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	900	597.17	0.66	0.25	1.22	0.23	0.97
Year 2	2004	0.5 - 1 ha	211	363.06	1.72	1.33	2.45	0.35	1.11
Date 2	0907	1 - 10 ha	263	1750.30	6.66	2.56	24.02	4.76	21.46
		10 - 20 ha	20	644.17	32.21	25.13	46.70	6.63	21.57
		> 20 ha	5	348.78	69.76	52.04	112.98	25.78	60.94
		Total	**2494**	**3946.58**	**1.58**	**0.00**	**112.98**		**112.97**
Year 1		< 0.1 ha	702	155.31	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	823	556.16	0.68	0.34	1.22	0.23	0.88
Year 2	2005	0.5 - 1 ha	211	363.17	1.72	1.33	2.45	0.37	1.11
Date 2	0214	1 - 10 ha	217	1586.57	7.31	2.56	23.57	5.34	21.02
		10 - 20 ha	12	361.87	30.16	25.35	36.92	4.17	11.56
		> 20 ha	5	593.27	118.65	50.04	214.50	67.62	164.46
		Total	**1970**	**3616.35**	**1.84**	**0.00**	**214.50**		**214.50**
Year 1		< 0.1 ha	125	27.42	0.22	0.01	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	157	101.72	0.65	0.44	1.20	0.23	0.75
Year 2	2006	0.5 - 1 ha	68	122.09	1.80	1.33	2.45	0.38	1.11
Date 2	1116	1 - 10 ha	93	655.84	7.05	2.67	23.35	4.93	20.68
		10 - 20 ha	5	161.24	32.25	25.13	39.36	7.01	14.23
		> 20 ha	1	73.84	73.84	73.84	73.84	0.00	0.00
		Total	**449**	**1142.15**	**2.54**	**0.01**	**73.84**		**73.83**

Bosque County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	332	73.84	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	469	319.28	0.68	0.25	1.22	0.24	0.97
Year 2	2007	0.5 - 1 ha	134	239.63	1.79	1.33	2.45	0.37	1.11
Date 2	0308	1 - 10 ha	151	1017.46	6.74	2.67	22.46	4.83	19.79
		10 - 20 ha	10	305.90	30.59	24.91	41.59	5.12	16.68
		> 20 ha	2	129.43	64.72	52.48	76.95	17.30	24.47
		Total	**1098**	**2085.54**	**1.90**	**0.22**	**76.95**		**76.73**
Year 1		< 0.1 ha	382	84.76	0.22	0.07	0.22	0.01	0.15
Date 1		0.1 - 0.5 ha	445	305.50	0.69	0.29	1.11	0.24	0.82
Year 2	2008	0.5 - 1 ha	172	297.12	1.73	1.33	2.45	0.34	1.11
Date 2	0207	1 - 10 ha	209	1488.23	7.12	2.56	24.46	5.06	21.90
		10 - 20 ha	15	452.14	30.14	24.91	42.92	5.18	18.01
		> 20 ha	8	615.34	76.92	56.27	129.32	25.70	73.05
		Total	**1231**	**3243.08**	**2.63**	**0.07**	**129.32**		**129.25**
Year 1		< 0.1 ha	767	170.41	0.22	0.06	0.22	0.01	0.16
Date 1		0.1 - 0.5 ha	726	488.09	0.67	0.33	1.22	0.24	0.89
Year 2	2008	0.5 - 1 ha	195	336.57	1.73	1.33	2.45	0.39	1.11
Date 2	0411	1 - 10 ha	218	1620.12	7.43	2.67	24.02	5.19	21.35
		10 - 20 ha	15	455.02	30.33	25.35	37.47	4.06	12.12
		> 20 ha	6	434.16	72.36	51.15	129.41	29.20	78.26
		Total	**1927**	**3504.36**	**1.82**	**0.06**	**129.41**		**129.36**
Year 1		< 0.1 ha	295	65.56	0.22	0.18	0.22	0.00	0.04
Date 1		0.1 - 0.5 ha	320	213.58	0.67	0.44	1.22	0.24	0.78
Year 2	2008	0.5 - 1 ha	142	247.08	1.74	1.33	2.45	0.36	1.11
Date 2	1004	1 - 10 ha	160	1213.85	7.59	2.56	24.46	5.41	21.91
		10 - 20 ha	6	170.17	28.36	25.35	35.36	4.10	10.01
		> 20 ha	5	348.36	69.67	50.43	112.12	26.03	61.70
		Total	**928**	**2258.59**	**2.43**	**0.18**	**112.12**		**111.94**
Year 1		< 0.1 ha	374	82.96	0.22	0.05	0.22	0.01	0.17
Date 1		0.1 - 0.5 ha	386	245.87	0.64	0.36	1.22	0.23	0.86
Year 2	2008	0.5 - 1 ha	146	252.75	1.73	1.33	2.45	0.35	1.11
Date 2	1020	1 - 10 ha	178	1343.78	7.55	2.67	24.35	5.43	21.68
		10 - 20 ha	6	172.55	28.76	26.35	32.02	2.42	5.67
		> 20 ha	5	333.77	66.75	49.59	113.18	26.23	63.59
		Total	**1095**	**2431.69**	**2.22**	**0.05**	**113.18**		**113.13**
Year 1		< 0.1 ha	176	38.94	0.22	0.03	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	236	163.52	0.69	0.26	1.22	0.24	0.97
Year 2	2008	0.5 - 1 ha	90	152.76	1.70	1.33	2.45	0.36	1.11
Date 2	1121	1 - 10 ha	144	1015.76	7.05	2.56	24.24	5.02	21.68
		10 - 20 ha	5	165.91	33.18	25.13	46.59	9.94	21.46
		> 20 ha	4	270.32	67.58	49.59	104.75	25.69	55.15
		Total	**655**	**1807.21**	**2.76**	**0.03**	**104.75**		**104.72**

Bosque County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	166	36.54	0.22	0.03	0.22	0.02	0.20
Date 1		0.1 - 0.5 ha	212	145.02	0.68	0.44	1.22	0.23	0.78
Year 2	2008	0.5 - 1 ha	96	169.21	1.76	1.33	2.45	0.35	1.11
Date 2	1207	1 - 10 ha	135	1036.78	7.68	2.67	24.57	5.61	21.91
		10 - 20 ha	7	223.93	31.99	24.91	44.34	7.35	19.44
		> 20 ha	3	203.94	67.98	50.04	101.86	29.36	51.82
		Total	**619**	**1815.42**	**2.93**	**0.03**	**101.86**		**101.83**
Year 1		< 0.1 ha	196	43.55	0.22	0.18	0.22	0.00	0.04
Date 1		0.1 - 0.5 ha	250	171.48	0.69	0.44	1.11	0.24	0.67
Year 2	2009	0.5 - 1 ha	95	168.21	1.77	1.33	2.45	0.35	1.11
Date 2	0108	1 - 10 ha	145	1075.32	7.42	2.67	24.46	5.46	21.79
		10 - 20 ha	8	283.50	35.44	25.35	49.15	9.13	23.80
		> 20 ha	4	259.42	64.86	49.82	102.08	24.94	52.26
		Total	**698**	**2001.48**	**2.87**	**0.18**	**102.08**		**101.90**
Year 1		< 0.1 ha	441	97.88	0.22	0.03	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	542	372.32	0.69	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	169	287.75	1.70	1.33	2.45	0.37	1.11
Date 2	0329	1 - 10 ha	191	1425.75	7.46	2.47	23.57	5.55	21.10
		10 - 20 ha	8	282.86	35.36	26.24	48.12	7.03	21.88
		> 20 ha	5	324.34	64.87	50.04	103.41	21.99	53.37
		Total	**1356**	**2790.89**	**2.06**	**0.03**	**103.41**		**103.39**
Year 1		< 0.1 ha	477	105.72	0.22	0.03	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	557	376.39	0.68	0.40	1.22	0.24	0.83
Year 2	2009	0.5 - 1 ha	187	327.31	1.75	1.33	2.45	0.36	1.11
Date 2	0414	1 - 10 ha	197	1379.88	7.00	2.67	24.46	5.15	21.79
		10 - 20 ha	9	269.73	29.97	24.91	38.25	4.88	13.34
		> 20 ha	10	646.48	64.65	50.48	102.75	15.24	52.26
		Total	**1437**	**3105.50**	**2.16**	**0.03**	**102.75**		**102.72**
Year 1		< 0.1 ha	443	97.75	0.22	0.01	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	466	315.96	0.68	0.44	1.23	0.24	0.79
Year 2	2009	0.5 - 1 ha	143	255.75	1.79	1.33	2.45	0.38	1.11
Date 2	0703	1 - 10 ha	161	1157.73	7.19	2.56	23.13	5.19	20.57
		10 - 20 ha	10	338.46	33.85	25.58	45.37	8.09	19.79
		> 20 ha	4	280.95	70.24	50.04	106.75	26.64	56.71
		Total	**1227**	**2446.60**	**1.99**	**0.01**	**106.75**		**106.74**
Year 1		< 0.1 ha	805	178.11	0.22	0.01	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	553	367.55	0.66	0.30	1.22	0.23	0.93
Year 2	2009	0.5 - 1 ha	172	295.00	1.72	1.33	2.45	0.33	1.11
Date 2	0804	1 - 10 ha	188	1333.95	7.10	2.56	23.91	5.25	21.35
		10 - 20 ha	13	403.61	31.05	24.76	45.15	6.04	20.38
		> 20 ha	3	243.87	81.29	56.35	105.90	24.77	49.54
		Total	**1734**	**2822.09**	**1.63**	**0.01**	**105.90**		**105.89**

Bosque County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	908	201.93	0.22	0.21	0.22	0.00	0.01
Date 1		0.1 - 0.5 ha	916	612.73	0.67	0.25	1.22	0.23	0.97
Year 2	2009	0.5 - 1 ha	269	467.78	1.74	1.33	2.45	0.38	1.11
Date 2	1023	1 - 10 ha	294	2013.56	6.85	2.56	24.24	4.99	21.68
		10 - 20 ha	8	227.29	28.41	25.35	32.47	2.49	7.12
		> 20 ha	7	585.30	83.61	53.60	110.27	21.07	56.68
		Total	**2402**	**4108.59**	**1.71**	**0.21**	**110.27**		**110.06**
Year 1		< 0.1 ha	851	188.62	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	732	492.50	0.67	0.28	1.22	0.24	0.94
Year 2	2009	0.5 - 1 ha	214	381.44	1.78	1.33	2.45	0.38	1.11
Date 2	1124	1 - 10 ha	227	1592.76	7.02	2.56	22.02	4.89	19.46
		10 - 20 ha	8	235.15	29.39	26.02	39.81	4.53	13.79
		> 20 ha	7	549.97	78.57	57.82	130.21	27.13	72.38
		Total	**2039**	**3440.45**	**1.69**	**0.02**	**130.21**		**130.19**
Year 1		< 0.1 ha	231	50.98	0.22	0.05	0.22	0.02	0.17
Date 1		0.1 - 0.5 ha	294	202.23	0.69	0.44	1.11	0.24	0.67
Year 2	2010	0.5 - 1 ha	127	225.84	1.78	1.33	2.45	0.38	1.11
Date 2	0111	1 - 10 ha	177	1336.25	7.55	2.56	24.46	5.73	21.91
		10 - 20 ha	9	269.10	29.90	25.35	37.81	3.83	12.45
		> 20 ha	5	351.11	70.22	50.93	112.84	25.56	61.91
		Total	**843**	**2435.52**	**2.89**	**0.05**	**112.84**		**112.79**
Year 1		< 0.1 ha	1138	251.71	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	932	624.54	0.67	0.40	1.22	0.23	0.83
Year 2	2010	0.5 - 1 ha	284	497.43	1.75	1.33	2.45	0.37	1.11
Date 2	0620	1 - 10 ha	293	2067.37	7.06	2.67	24.69	4.87	22.02
		10 - 20 ha	21	669.26	31.87	25.69	46.26	5.47	20.57
		> 20 ha	7	522.57	74.65	58.71	129.64	25.45	70.93
		Total	**2675**	**4632.88**	**1.73**	**0.00**	**129.64**		**129.64**
Year 1		< 0.1 ha	585	129.80	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	879	588.02	0.67	0.26	1.22	0.23	0.96
Year 2	2010	0.5 - 1 ha	248	432.78	1.75	1.33	2.45	0.35	1.11
Date 2	1127	1 - 10 ha	248	1771.24	7.14	2.56	24.46	5.20	21.91
		10 - 20 ha	14	411.96	29.43	25.13	37.70	3.39	12.57
		> 20 ha	6	453.67	75.61	55.60	131.68	28.07	76.08
		Total	**1980**	**3787.46**	**1.91**	**0.03**	**131.68**		**131.65**
Year 1		< 0.1 ha	253	56.27	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	368	253.55	0.69	0.36	1.22	0.24	0.86
Year 2	2010	0.5 - 1 ha	122	217.59	1.78	1.33	2.45	0.37	1.11
Date 2	1213	1 - 10 ha	182	1266.32	6.96	2.67	24.24	5.05	21.57
		10 - 20 ha	9	277.77	30.86	25.35	48.04	7.12	22.68
		> 20 ha	4	293.94	73.49	56.27	118.08	29.88	61.81
		Total	**938**	**2365.43**	**2.52**	**0.22**	**118.08**		**117.86**

Denton County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	302	67.06	0.22	0.16	0.22	0.00	0.06
Date 1		0.1 - 0.5 ha	326	220.06	0.68	0.33	1.22	0.24	0.89
Year 2	1997	0.5 - 1 ha	118	205.69	1.74	1.33	2.45	0.37	1.11
Date 2	0328	1 - 10 ha	125	987.55	7.90	2.67	24.57	6.27	21.91
		10 - 20 ha	14	428.33	30.60	25.58	42.92	4.99	17.35
		> 20 ha	2	106.08	53.04	50.26	55.82	3.93	5.56
Baseline Wet		**Total**	**887**	**2014.78**	**2.27**	**0.16**	**55.82**		**55.66**
Year 1		< 0.1 ha	152	33.80	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	184	121.97	0.66	0.44	1.22	0.24	0.78
Year 2	1999	0.5 - 1 ha	51	84.95	1.67	1.33	2.45	0.37	1.11
Date 2	0214	1 - 10 ha	96	778.93	8.11	2.67	23.80	5.94	21.13
		10 - 20 ha	6	194.37	32.40	26.46	41.37	6.05	14.90
		> 20 ha	1	49.59	49.59	49.59	49.59	0.00	0.00
Baseline Dry		**Total**	**490**	**1263.63**	**2.58**	**0.22**	**49.59**		**49.37**
Year 1		< 0.1 ha	245	54.43	0.22	0.17	0.22	0.00	0.05
Date 1		0.1 - 0.5 ha	326	225.35	0.69	0.44	1.22	0.24	0.78
Year 2	2003	0.5 - 1 ha	127	228.37	1.80	1.33	2.45	0.36	1.11
Date 2	1023	1 - 10 ha	118	911.30	7.72	2.67	24.24	6.02	21.57
		10 - 20 ha	9	301.05	33.45	25.13	49.07	7.64	23.94
		> 20 ha	1	53.37	53.37	53.37	53.37	0.00	0.00
		Total	**826**	**1773.87**	**2.15**	**0.17**	**53.37**		**53.21**
Year 1		< 0.1 ha	317	70.31	0.22	0.08	0.22	0.01	0.14
Date 1		0.1 - 0.5 ha	402	273.78	0.68	0.44	1.19	0.25	0.75
Year 2	2004	0.5 - 1 ha	151	251.52	1.67	1.33	2.45	0.33	1.11
Date 2	0907	1 - 10 ha	158	1143.64	7.24	2.67	24.24	5.58	21.57
		10 - 20 ha	10	333.37	33.34	25.35	47.15	7.49	21.79
		> 20 ha	2	118.20	59.10	54.49	63.72	6.53	9.23
		Total	**1040**	**2190.82**	**2.11**	**0.08**	**63.72**		**63.63**
Year 1		< 0.1 ha	386	85.80	0.22	0.18	0.22	0.00	0.05
Date 1		0.1 - 0.5 ha	645	430.28	0.67	0.28	1.22	0.24	0.94
Year 2	2005	0.5 - 1 ha	219	380.32	1.74	1.33	2.45	0.35	1.11
Date 2	0214	1 - 10 ha	181	1258.39	6.95	2.56	24.02	5.38	21.46
		10 - 20 ha	14	458.40	32.74	25.35	47.52	7.40	22.17
		> 20 ha	1	96.52	96.52	96.52	96.52	0.00	0.00
		Total	**1446**	**2709.70**	**1.87**	**0.18**	**96.52**		**96.34**
Year 1		< 0.1 ha	109	24.10	0.22	0.08	0.22	0.01	0.14
Date 1		0.1 - 0.5 ha	193	137.82	0.71	0.44	1.22	0.25	0.78
Year 2	2006	0.5 - 1 ha	91	161.32	1.77	1.33	2.45	0.38	1.11
Date 2	1116	1 - 10 ha	100	736.15	7.36	2.56	22.68	5.10	20.13
		10 - 20 ha	4	134.55	33.64	26.24	38.70	5.54	12.45
		Total	**497**	**1193.93**	**2.40**	**0.08**	**38.70**		**38.61**

Denton County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	336	74.33	0.22	0.08	0.22	0.01	0.14
Date 1		0.1 - 0.5 ha	526	354.32	0.67	0.27	1.22	0.24	0.96
Year 2	2007	0.5 - 1 ha	217	374.40	1.73	1.33	2.45	0.36	1.11
Date 2	0308	1 - 10 ha	173	1196.48	6.92	2.67	23.80	5.36	21.13
		10 - 20 ha	10	332.52	33.25	24.91	48.19	7.73	23.28
		> 20 ha	1	50.43	50.43	50.43	50.43	0.00	0.00
		Total	**1263**	**2382.48**	**1.89**	**0.08**	**50.43**		**50.35**
Year 1		< 0.1 ha	303	67.39	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	463	312.48	0.67	0.39	1.22	0.23	0.83
Year 2	2008	0.5 - 1 ha	173	300.01	1.73	1.33	2.45	0.37	1.11
Date 2	0207	1 - 10 ha	162	1202.97	7.43	2.67	24.46	5.85	21.79
		10 - 20 ha	10	379.93	37.99	28.47	48.56	7.58	20.10
		> 20 ha	1	67.44	67.44	67.44	67.44	0.00	0.00
		Total	**1112**	**2330.21**	**2.10**	**0.22**	**67.44**		**67.21**
Year 1		< 0.1 ha	380	83.98	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	552	383.14	0.69	0.33	1.22	0.24	0.89
Year 2	2008	0.5 - 1 ha	240	425.11	1.77	1.33	2.45	0.38	1.11
Date 2	0411	1 - 10 ha	196	1348.44	6.88	2.56	24.24	5.18	21.68
		10 - 20 ha	17	591.68	34.80	25.35	47.81	8.04	22.46
		> 20 ha	5	455.74	91.15	52.76	150.78	44.95	98.02
		Total	**1390**	**3288.09**	**2.37**	**0.00**	**150.78**		**150.78**
Year 1		< 0.1 ha	293	64.82	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	455	305.55	0.67	0.44	1.22	0.23	0.78
Year 2	2008	0.5 - 1 ha	189	336.21	1.78	1.33	2.45	0.37	1.11
Date 2	1004	1 - 10 ha	182	1271.66	6.99	2.67	24.69	5.66	22.02
		10 - 20 ha	12	423.05	35.25	24.91	46.78	7.97	21.87
		> 20 ha	2	173.91	86.96	53.82	120.09	46.86	66.27
		Total	**1133**	**2575.19**	**2.27**	**0.00**	**120.09**		**120.09**
Year 1		< 0.1 ha	258	57.16	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	400	281.47	0.70	0.44	1.11	0.23	0.67
Year 2	2008	0.5 - 1 ha	195	335.01	1.72	1.33	2.45	0.36	1.11
Date 2	1020	1 - 10 ha	179	1322.40	7.39	2.56	24.69	6.17	22.13
		10 - 20 ha	8	272.29	34.04	25.58	46.78	7.60	21.21
		> 20 ha	1	50.26	50.26	50.26	50.26	0.00	0.00
		Total	**1041**	**2318.59**	**2.23**	**0.00**	**50.26**		**50.26**
Year 1		< 0.1 ha	181	40.13	0.22	0.15	0.22	0.01	0.07
Date 1		0.1 - 0.5 ha	305	224.17	0.73	0.40	1.11	0.24	0.71
Year 2	2008	0.5 - 1 ha	125	218.39	1.75	1.33	2.45	0.37	1.11
Date 2	1121	1 - 10 ha	137	1061.93	7.75	2.67	24.69	6.01	22.02
		10 - 20 ha	7	247.30	35.33	28.47	46.48	7.09	18.01
		Total	**755**	**1791.93**	**2.37**	**0.15**	**46.48**		**46.33**

Denton County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	186	41.14	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	313	211.52	0.68	0.32	1.11	0.23	0.79
Year 2	2008	0.5 - 1 ha	132	228.48	1.73	1.33	2.45	0.35	1.11
Date 2	1207	1 - 10 ha	137	1014.27	7.40	2.56	22.68	5.65	20.13
		10 - 20 ha	8	275.25	34.41	24.91	47.81	7.81	22.91
		Total	**776**	**1770.67**	**2.28**	**0.00**	**47.81**		**47.81**
Year 1		< 0.1 ha	242	53.39	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	348	225.80	0.65	0.30	1.11	0.22	0.81
Year 2	2009	0.5 - 1 ha	141	248.19	1.76	1.33	2.45	0.36	1.11
Date 2	0108	1 - 10 ha	141	1047.44	7.43	2.56	22.68	5.82	20.13
		10 - 20 ha	8	274.99	34.37	25.58	48.04	7.56	22.46
		Total	**880**	**1849.82**	**2.10**	**0.00**	**48.04**		**48.04**
Year 1		< 0.1 ha	264	58.23	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	442	312.89	0.71	0.44	1.22	0.25	0.78
Year 2	2009	0.5 - 1 ha	191	333.20	1.74	1.33	2.45	0.35	1.11
Date 2	0329	1 - 10 ha	190	1284.33	6.76	2.56	24.69	5.28	22.13
		10 - 20 ha	11	370.28	33.66	25.13	48.03	8.11	22.90
		> 20 ha	2	113.98	56.99	50.48	63.49	9.20	13.01
		Total	**1100**	**2472.91**	**2.25**	**0.00**	**63.49**		**63.49**
Year 1		< 0.1 ha	295	65.20	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	453	323.52	0.71	0.44	1.11	0.24	0.67
Year 2	2009	0.5 - 1 ha	217	384.94	1.77	1.33	2.45	0.36	1.11
Date 2	0414	1 - 10 ha	195	1330.63	6.82	2.56	24.24	5.19	21.68
		10 - 20 ha	11	358.08	32.55	25.13	47.50	8.23	22.37
		> 20 ha	4	299.12	74.78	50.26	138.11	42.37	87.85
		Total	**1175**	**2761.49**	**2.35**	**0.02**	**138.11**		**138.09**
Year 1		< 0.1 ha	391	86.48	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	641	433.32	0.68	0.44	1.22	0.23	0.78
Year 2	2009	0.5 - 1 ha	273	483.38	1.77	1.33	2.45	0.37	1.11
Date 2	0703	1 - 10 ha	242	1574.94	6.51	2.67	24.02	5.05	21.35
		10 - 20 ha	16	538.17	33.64	25.13	46.93	7.58	21.79
		> 20 ha	5	275.07	55.01	49.59	60.71	4.86	11.12
		Total	**1568**	**3391.36**	**2.16**	**0.00**	**60.71**		**60.71**
Year 1		< 0.1 ha	393	87.28	0.22	0.10	0.22	0.01	0.12
Date 1		0.1 - 0.5 ha	556	379.56	0.68	0.29	1.22	0.24	0.94
Year 2	2009	0.5 - 1 ha	255	452.54	1.77	1.33	2.45	0.37	1.11
Date 2	0804	1 - 10 ha	224	1372.88	6.13	2.56	23.57	4.55	21.02
		10 - 20 ha	17	523.74	30.81	24.91	47.81	6.12	22.91
		> 20 ha	5	300.20	60.04	50.01	91.63	17.79	41.62
		Total	**1450**	**3116.20**	**2.15**	**0.10**	**91.63**		**91.52**

Denton County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	411	91.31	0.22	0.17	0.22	0.00	0.05
Date 1		0.1 - 0.5 ha	504	349.02	0.69	0.26	1.22	0.24	0.96
Year 2	2009	0.5 - 1 ha	205	364.84	1.78	1.33	2.45	0.37	1.11
Date 2	1023	1 - 10 ha	214	1458.13	6.81	2.67	24.69	5.26	22.02
		10 - 20 ha	13	461.80	35.52	25.02	46.48	6.66	21.46
		> 20 ha	5	390.27	78.05	50.34	156.45	44.73	106.11
		Total	**1352**	**3115.38**	**2.30**	**0.17**	**156.45**		**156.29**
Year 1		< 0.1 ha	335	73.97	0.22	0.06	0.22	0.01	0.17
Date 1		0.1 - 0.5 ha	508	352.88	0.69	0.34	1.11	0.24	0.77
Year 2	2009	0.5 - 1 ha	207	363.08	1.75	1.33	2.45	0.37	1.11
Date 2	1124	1 - 10 ha	199	1337.98	6.72	2.56	24.69	5.24	22.13
		10 - 20 ha	13	466.03	35.85	24.91	48.93	8.71	24.02
		> 20 ha	5	319.72	63.94	51.37	110.09	25.82	58.71
		Total	**1267**	**2913.67**	**2.30**	**0.06**	**110.09**		**110.03**
Year 1		< 0.1 ha	376	83.01	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	527	345.81	0.66	0.30	1.11	0.24	0.81
Year 2	2009	0.5 - 1 ha	207	355.39	1.72	1.33	2.45	0.35	1.11
Date 2	1210	1 - 10 ha	186	1338.48	7.20	2.67	24.24	5.60	21.57
		10 - 20 ha	13	463.07	35.62	26.24	48.04	8.13	21.79
		> 20 ha	2	110.09	55.04	54.26	55.82	1.10	1.56
		Total	**1311**	**2695.84**	**2.06**	**0.00**	**55.82**		**55.82**
Year 1		< 0.1 ha	261	57.80	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	435	294.57	0.68	0.30	1.22	0.24	0.92
Year 2	2010	0.5 - 1 ha	167	290.78	1.74	1.33	2.45	0.36	1.11
Date 2	0111	1 - 10 ha	158	1137.65	7.20	2.56	24.24	5.44	21.68
		10 - 20 ha	13	440.90	33.92	25.58	47.15	7.30	21.57
		Total	**1034**	**2221.70**	**2.15**	**0.02**	**47.15**		**47.13**
Year 1		< 0.1 ha	430	95.58	0.22	0.18	0.22	0.00	0.05
Date 1		0.1 - 0.5 ha	536	368.88	0.69	0.33	1.22	0.25	0.89
Year 2	2010	0.5 - 1 ha	202	357.33	1.77	1.33	2.45	0.36	1.11
Date 2	0604	1 - 10 ha	225	1414.44	6.29	2.56	24.69	4.83	22.13
		10 - 20 ha	15	502.72	33.51	25.13	47.15	7.95	22.02
		> 20 ha	4	222.17	55.54	51.60	66.72	7.46	15.12
		Total	**1412**	**2961.13**	**2.10**	**0.18**	**66.72**		**66.54**
Year 1		< 0.1 ha	414	91.85	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	696	490.95	0.71	0.44	1.22	0.25	0.78
Year 2	2010	0.5 - 1 ha	286	500.49	1.75	1.33	2.45	0.38	1.11
Date 2	0620	1 - 10 ha	252	1578.63	6.26	2.67	24.69	4.81	22.02
		10 - 20 ha	15	515.96	34.40	25.35	47.81	7.14	22.46
		> 20 ha	6	377.93	62.99	51.45	86.29	14.34	34.84
		Total	**1669**	**3555.81**	**2.13**	**0.00**	**86.29**		**86.29**

Denton County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	462	102.50	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	652	460.23	0.71	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	275	483.11	1.76	1.33	2.45	0.37	1.11
Date 2	0807	1 - 10 ha	263	1585.59	6.03	2.67	24.24	4.51	21.57
		10 - 20 ha	17	556.46	32.73	24.91	44.70	6.50	19.79
		> 20 ha	5	421.64	84.33	51.38	194.93	61.99	143.55
		Total	**1674**	**3609.52**	**2.16**	**0.00**	**194.93**		**194.93**
Year 1		< 0.1 ha	392	86.79	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	564	394.88	0.70	0.26	1.22	0.25	0.96
Year 2	2010	0.5 - 1 ha	235	411.85	1.75	1.33	2.45	0.37	1.11
Date 2	1010	1 - 10 ha	207	1392.64	6.73	2.56	24.46	5.11	21.91
		10 - 20 ha	19	639.50	33.66	25.13	48.48	7.75	23.35
		> 20 ha	2	111.50	55.75	52.79	58.71	4.19	5.92
		Total	**1419**	**3037.15**	**2.14**	**0.02**	**58.71**		**58.69**
Year 1		< 0.1 ha	566	124.93	0.22	0.01	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	683	464.46	0.68	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	223	404.17	1.81	1.33	2.45	0.37	1.11
Date 2	1127	1 - 10 ha	241	1522.06	6.32	2.56	23.80	4.70	21.24
		10 - 20 ha	17	521.63	30.68	24.91	46.93	6.01	22.02
		> 20 ha	4	234.45	58.61	50.64	74.84	11.39	24.20
		Total	**1734**	**3271.70**	**1.89**	**0.01**	**74.84**		**74.83**
Year 1		< 0.1 ha	240	53.07	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	372	256.51	0.69	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	135	236.18	1.75	1.33	2.45	0.36	1.11
Date 2	1213	1 - 10 ha	145	1086.25	7.49	2.67	24.46	5.90	21.79
		10 - 20 ha	9	325.89	36.21	26.24	44.92	7.16	18.68
		> 20 ha	1	50.59	50.59	50.59	50.59	0.00	0.00
		Total	**902**	**2008.50**	**2.23**	**0.00**	**50.59**		**50.59**

Erath County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	1997	< 0.1 ha	1326	294.56	0.22	0.01	0.22	0.01	0.21
Date 1	0303	0.1 - 0.5 ha	2186	1475.59	0.68	0.25	1.22	0.25	0.97
Year 2	1997	0.5 - 1 ha	592	1009.40	1.71	1.25	2.47	0.34	1.22
Date 2	0328	1 - 10 ha	326	2197.12	6.74	2.47	24.40	5.38	21.93
		10 - 20 ha	26	905.82	34.84	25.03	48.04	7.20	23.00
		> 20 ha	22	1631.24	74.15	49.44	212.34	40.20	162.90
Baseline Wet		**Total**	**4478**	**7513.73**	**1.68**	**0.01**	**212.34**		**212.33**
Year 1	1999	< 0.1 ha	503	111.74	0.22	0.10	0.22	0.01	0.12
Date 1	0221	0.1 - 0.5 ha	731	449.20	0.61	0.25	1.22	0.25	0.97
Year 2	1999	0.5 - 1 ha	149	260.74	1.75	1.33	2.46	0.36	1.13
Date 2	0214	1 - 10 ha	137	1139.02	8.31	2.48	24.02	5.59	21.54
		10 - 20 ha	19	578.85	30.47	25.13	41.81	4.57	16.68
		> 20 ha	4	281.45	70.36	51.15	89.85	21.25	38.70
Baseline Dry		**Total**	**1543**	**2821.00**	**1.83**	**0.10**	**89.85**		**89.75**
Year 1	2003	< 0.1 ha	729	161.89	0.22	0.10	0.22	0.01	0.12
Date 1	1014	0.1 - 0.5 ha	1097	675.59	0.62	0.25	1.22	0.25	0.97
Year 2	2003	0.5 - 1 ha	178	299.85	1.68	1.33	2.46	0.34	1.13
Date 2	1023	1 - 10 ha	161	1156.63	7.18	2.49	23.37	5.06	20.89
		10 - 20 ha	29	924.13	31.87	24.91	41.37	5.10	16.46
		> 20 ha	4	301.66	75.41	55.04	114.51	27.60	59.47
		Total	**2198**	**3519.75**	**1.60**	**0.10**	**114.51**		**114.41**
Year 1	2004	< 0.1 ha	1174	260.68	0.22	0.01	0.22	0.01	0.21
Date 1	1016	0.1 - 0.5 ha	1572	994.84	0.63	0.25	1.22	0.25	0.97
Year 2	2004	0.5 - 1 ha	308	525.66	1.71	1.30	2.47	0.34	1.17
Date 2	0907	1 - 10 ha	220	1558.05	7.08	2.51	23.28	5.44	20.77
		10 - 20 ha	33	1139.33	34.53	25.15	44.61	5.87	19.46
		> 20 ha	4	310.93	77.73	52.71	118.90	29.62	66.19
		Total	**3311**	**4789.51**	**1.45**	**0.01**	**118.90**		**118.88**
Year 1	2005	< 0.1 ha	965	214.42	0.22	0.12	0.22	0.00	0.10
Date 1	0221	0.1 - 0.5 ha	1769	1154.91	0.65	0.25	1.20	0.25	0.95
Year 2	2005	0.5 - 1 ha	418	701.94	1.68	1.27	2.46	0.34	1.19
Date 2	0214	1 - 10 ha	281	1895.55	6.75	2.48	24.41	5.44	21.93
		10 - 20 ha	34	1226.94	36.09	24.91	48.26	6.04	23.35
		> 20 ha	8	626.63	78.33	50.71	123.47	26.64	72.77
		Total	**3475**	**5820.38**	**1.67**	**0.12**	**123.47**		**123.35**
Year 1	2006	< 0.1 ha	409	90.96	0.22	0.22	0.22	0.00	0.00
Date 1	1123	0.1 - 0.5 ha	532	337.83	0.64	0.25	1.22	0.26	0.97
Year 2	2006	0.5 - 1 ha	114	192.36	1.69	1.33	2.45	0.37	1.12
Date 2	1116	1 - 10 ha	131	1087.10	8.30	2.54	24.08	5.79	21.55
		10 - 20 ha	14	453.01	32.36	24.91	42.78	5.92	17.87
		> 20 ha	2	139.06	69.53	58.93	80.12	14.98	21.19
		Total	**1202**	**2300.31**	**1.91**	**0.22**	**80.12**		**79.90**

Erath County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2007	< 0.1 ha	1583	351.54	0.22	0.01	0.22	0.01	0.21
Date 1	0331	0.1 - 0.5 ha	2261	1494.78	0.66	0.25	1.22	0.23	0.97
Year 2	2007	0.5 - 1 ha	624	1061.29	1.70	1.29	2.47	0.36	1.18
Date 2	0308	1 - 10 ha	345	2164.01	6.27	2.50	23.57	4.99	21.08
		10 - 20 ha	37	1343.53	36.31	25.35	48.93	7.54	23.57
		> 20 ha	15	1055.55	70.37	50.26	172.39	31.88	122.13
		Total	**4865**	**7470.70**	**1.54**	**0.01**	**172.39**		**172.38**
Year 1	2008	< 0.1 ha	1148	254.90	0.22	0.03	0.22	0.01	0.19
Date 1	0418	0.1 - 0.5 ha	1750	1119.09	0.64	0.25	1.20	0.25	0.95
Year 2	2008	0.5 - 1 ha	382	659.81	1.73	1.33	2.45	0.34	1.12
Date 2	0411	1 - 10 ha	276	1965.52	7.12	2.49	24.11	5.51	21.62
		10 - 20 ha	35	1204.72	34.42	25.13	48.93	5.96	23.80
		> 20 ha	5	403.46	80.69	54.49	116.76	31.88	62.27
		Total	**3596**	**5607.49**	**1.56**	**0.03**	**116.76**		**116.72**
Year 1	2008	< 0.1 ha	895	196.61	0.22	0.00	0.22	0.02	0.22
Date 1	0723	0.1 - 0.5 ha	1259	845.44	0.67	0.25	1.22	0.24	0.97
Year 2	2008	0.5 - 1 ha	319	551.45	1.73	1.27	2.45	0.37	1.18
Date 2	0207	1 - 10 ha	266	1974.81	7.42	2.56	24.46	5.46	21.91
		10 - 20 ha	32	1061.55	33.17	25.35	46.48	5.34	21.13
		> 20 ha	6	497.48	82.91	50.26	121.09	34.26	70.83
		Total	**2777**	**5127.32**	**1.85**	**0.00**	**121.09**		**121.09**
Year 1	2008	< 0.1 ha	560	123.95	0.22	0.00	0.22	0.01	0.22
Date 1	1027	0.1 - 0.5 ha	570	375.57	0.66	0.25	1.22	0.23	0.97
Year 2	2008	0.5 - 1 ha	152	266.85	1.76	1.33	2.45	0.39	1.11
Date 2	1004	1 - 10 ha	171	1376.21	8.05	2.56	23.57	5.58	21.02
		10 - 20 ha	22	707.88	32.18	25.58	47.81	5.72	22.24
		> 20 ha	3	271.38	90.46	82.06	104.14	11.95	22.08
		Total	**1478**	**3121.85**	**2.11**	**0.00**	**104.14**		**104.14**
Year 1	2008	< 0.1 ha	514	113.89	0.22	0.02	0.22	0.01	0.20
Date 1	1027	0.1 - 0.5 ha	555	367.79	0.66	0.25	1.22	0.23	0.97
Year 2	2008	0.5 - 1 ha	158	280.08	1.77	1.33	2.45	0.38	1.11
Date 2	1020	1 - 10 ha	170	1406.46	8.27	2.56	23.13	5.61	20.57
		10 - 20 ha	21	683.53	32.55	25.58	47.37	5.72	21.79
		> 20 ha	2	186.70	93.35	85.18	101.52	11.56	16.34
		Total	**1420**	**3038.45**	**2.14**	**0.02**	**101.52**		**101.50**
Year 1	2008	< 0.1 ha	434	96.15	0.22	0.02	0.22	0.01	0.20
Date 1	1027	0.1 - 0.5 ha	477	314.62	0.66	0.25	1.22	0.23	0.97
Year 2	2008	0.5 - 1 ha	133	237.27	1.78	1.33	2.45	0.40	1.11
Date 2	1121	1 - 10 ha	157	1315.41	8.38	2.56	24.69	5.73	22.13
		10 - 20 ha	19	590.57	31.08	25.58	44.26	5.29	18.68
		> 20 ha	2	184.07	92.03	85.18	98.89	9.70	13.71
		Total	**1222**	**2738.08**	**2.24**	**0.02**	**98.89**		**98.87**

Erath County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2008	< 0.1 ha	336	74.14	0.22	0.02	0.22	0.02	0.21
Date 1	1214	0.1 - 0.5 ha	422	278.79	0.66	0.42	1.22	0.23	0.80
Year 2	2008	0.5 - 1 ha	123	214.39	1.74	1.33	2.45	0.37	1.11
Date 2	1207	1 - 10 ha	131	1093.22	8.35	2.67	23.80	5.13	21.13
		10 - 20 ha	21	671.41	31.97	24.91	46.48	6.40	21.57
		> 20 ha	2	173.68	86.84	83.83	89.85	4.25	6.02
		Total	**1035**	**2505.63**	**2.42**	**0.02**	**89.85**		**89.83**
Year 1	2009	< 0.1 ha	326	71.87	0.22	0.00	0.22	0.02	0.22
Date 1	0115	0.1 - 0.5 ha	430	281.03	0.65	0.28	1.22	0.22	0.95
Year 2	2009	0.5 - 1 ha	104	183.48	1.76	1.33	2.45	0.37	1.11
Date 2	0108	1 - 10 ha	137	1177.45	8.59	2.67	24.69	5.48	22.02
		10 - 20 ha	18	593.91	32.99	26.02	44.48	5.99	18.46
		> 20 ha	4	340.52	85.13	70.05	95.07	11.01	25.02
		Total	**1019**	**2648.25**	**2.60**	**0.00**	**95.07**		**95.07**
Year 1	2009	< 0.1 ha	573	126.31	0.22	0.00	0.22	0.02	0.22
Date 1	0421	0.1 - 0.5 ha	724	478.07	0.66	0.25	1.22	0.23	0.97
Year 2	2009	0.5 - 1 ha	177	304.01	1.72	1.33	2.45	0.35	1.11
Date 2	0329	1 - 10 ha	179	1338.79	7.48	2.67	24.46	5.32	21.79
		10 - 20 ha	23	770.60	33.50	24.91	47.81	7.28	22.91
		> 20 ha	2	174.17	87.09	85.88	88.29	1.70	2.41
		Total	**1678**	**3191.95**	**1.90**	**0.00**	**88.29**		**88.29**
Year 1	2009	< 0.1 ha	582	128.53	0.22	0.00	0.22	0.02	0.22
Date 1	0421	0.1 - 0.5 ha	686	451.11	0.66	0.25	1.22	0.23	0.97
Year 2	2009	0.5 - 1 ha	171	295.67	1.73	1.33	2.45	0.35	1.11
Date 2	0414	1 - 10 ha	188	1360.25	7.24	2.56	24.46	5.27	21.91
		10 - 20 ha	22	748.47	34.02	24.91	47.81	7.41	22.91
		> 20 ha	3	265.05	88.35	87.36	89.40	1.02	2.05
		Total	**1652**	**3249.09**	**1.97**	**0.00**	**89.40**		**89.40**
Year 1	2009	< 0.1 ha	747	165.67	0.22	0.00	0.22	0.01	0.22
Date 1	0608	0.1 - 0.5 ha	796	512.09	0.64	0.25	1.22	0.23	0.97
Year 2	2009	0.5 - 1 ha	175	298.78	1.71	1.33	2.45	0.35	1.11
Date 2	0703	1 - 10 ha	171	1281.12	7.49	2.56	24.69	5.51	22.13
		10 - 20 ha	19	634.71	33.41	24.91	47.15	7.43	22.24
		> 20 ha	2	165.98	82.99	81.84	84.14	1.63	2.30
		Total	**1910**	**3058.36**	**1.60**	**0.00**	**84.14**		**84.14**
Year 1	2009	< 0.1 ha	676	149.92	0.22	0.01	0.22	0.01	0.21
Date 1	0710	0.1 - 0.5 ha	742	479.76	0.65	0.25	1.22	0.23	0.97
Year 2	2009	0.5 - 1 ha	181	312.52	1.73	1.25	2.45	0.37	1.19
Date 2	0703	1 - 10 ha	171	1278.20	7.47	2.67	24.46	5.46	21.79
		10 - 20 ha	18	593.13	32.95	24.91	47.81	7.49	22.91
		> 20 ha	2	162.67	81.33	80.28	82.38	1.48	2.10
		Total	**1790**	**2976.19**	**1.66**	**0.01**	**82.38**		**82.37**

Erath County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2009	< 0.1 ha	1045	231.71	0.22	0.02	0.22	0.01	0.21
Date 1	0710	0.1 - 0.5 ha	1136	756.43	0.67	0.25	1.22	0.24	0.97
Year 2	2009	0.5 - 1 ha	222	378.57	1.71	1.25	2.45	0.36	1.19
Date 2	0804	1 - 10 ha	201	1510.43	7.51	2.67	24.69	5.51	22.02
		10 - 20 ha	20	677.19	33.86	26.02	47.81	6.71	21.79
		> 20 ha	2	164.84	82.42	80.28	84.56	3.02	4.27
		Total	**2626**	**3719.17**	**1.42**	**0.02**	**84.56**		**84.54**
Year 1	2009	< 0.1 ha	1044	231.76	0.22	0.01	0.22	0.01	0.21
Date 1	0928	0.1 - 0.5 ha	1467	978.79	0.67	0.27	1.23	0.25	0.95
Year 2	2009	0.5 - 1 ha	372	641.62	1.72	1.24	2.47	0.36	1.23
Date 2	1023	1 - 10 ha	244	1769.75	7.25	2.49	24.24	5.43	21.75
		10 - 20 ha	29	993.61	34.26	25.22	48.93	7.52	23.71
		> 20 ha	4	274.67	68.67	52.44	78.73	12.26	26.29
		Total	**3160**	**4890.19**	**1.55**	**0.01**	**78.73**		**78.72**
Year 1	2010	< 0.1 ha	1187	262.47	0.22	0.00	0.22	0.01	0.22
Date 1	0323	0.1 - 0.5 ha	1538	1057.98	0.69	0.25	1.22	0.24	0.97
Year 2	2009	0.5 - 1 ha	400	679.97	1.70	1.33	2.45	0.36	1.11
Date 2	1124	1 - 10 ha	312	2119.22	6.79	2.56	24.24	5.14	21.68
		10 - 20 ha	32	1092.73	34.15	25.13	46.70	6.24	21.57
		> 20 ha	5	389.28	77.86	52.04	117.30	33.70	65.25
		Total	**3474**	**5601.66**	**1.61**	**0.00**	**117.30**		**117.30**
Year 1	2010	< 0.1 ha	1043	230.58	0.22	0.00	0.22	0.01	0.22
Date 1	0323	0.1 - 0.5 ha	1474	1011.31	0.69	0.25	1.22	0.24	0.97
Year 2	2009	0.5 - 1 ha	375	635.33	1.69	1.33	2.45	0.35	1.11
Date 2	1210	1 - 10 ha	313	2062.49	6.59	2.56	23.57	4.97	21.02
		10 - 20 ha	31	1038.99	33.52	25.13	46.70	6.83	21.57
		> 20 ha	5	393.64	78.73	51.37	115.64	32.21	64.27
		Total	**3241**	**5372.34**	**1.66**	**0.00**	**115.64**		**115.64**
Year 1	2010	< 0.1 ha	1210	267.05	0.22	0.01	0.22	0.02	0.22
Date 1	0408	0.1 - 0.5 ha	1425	959.91	0.67	0.28	1.22	0.24	0.95
Year 2	2010	0.5 - 1 ha	380	654.86	1.72	1.29	2.45	0.37	1.15
Date 2	0620	1 - 10 ha	303	2202.08	7.27	2.64	24.69	5.50	22.04
		10 - 20 ha	33	1161.63	35.20	26.02	46.93	5.46	20.91
		> 20 ha	4	339.35	84.84	55.15	118.73	32.62	63.58
		Total	**3355**	**5584.87**	**1.66**	**0.01**	**118.73**		**118.72**
Year 1	2010	< 0.1 ha	1211	266.90	0.22	0.00	0.22	0.02	0.22
Date 1	0627	0.1 - 0.5 ha	1547	1041.12	0.67	0.25	1.22	0.24	0.97
Year 2	2010	0.5 - 1 ha	381	654.27	1.72	1.33	2.45	0.37	1.11
Date 2	0620	1 - 10 ha	317	2267.30	7.15	2.56	24.69	5.37	22.13
		10 - 20 ha	32	1113.70	34.80	26.02	46.70	5.12	20.68
		> 20 ha	5	370.10	74.02	53.71	120.01	28.24	66.30
		Total	**3493**	**5713.39**	**1.64**	**0.00**	**120.01**		**120.01**

Erath County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2010	< 0.1 ha	1128	249.99	0.22	0.00	0.22	0.01	0.22
Date 1	1001	0.1 - 0.5 ha	1205	793.23	0.66	0.25	1.22	0.23	0.97
Year 2	2010	0.5 - 1 ha	295	505.10	1.71	1.27	2.45	0.36	1.18
Date 2	1010	1 - 10 ha	244	1690.25	6.93	2.56	23.35	4.98	20.79
		10 - 20 ha	32	1067.78	33.37	25.13	48.04	6.02	22.91
		> 20 ha	4	310.14	77.53	53.82	120.32	30.69	66.50
		Total	**2908**	**4616.49**	**1.59**	**0.00**	**120.32**		**120.32**
Year 1	2010	< 0.1 ha	837	185.19	0.22	0.02	0.22	0.01	0.20
Date 1	1118	0.1 - 0.5 ha	989	657.07	0.66	0.44	1.22	0.23	0.78
Year 2	2010	0.5 - 1 ha	269	450.88	1.68	1.33	2.45	0.33	1.11
Date 2	1127	1 - 10 ha	208	1575.52	7.57	2.56	24.69	5.42	22.13
		10 - 20 ha	31	1039.56	33.53	26.24	43.14	5.02	16.90
		> 20 ha	4	306.46	76.62	55.71	113.20	26.67	57.49
		Total	**2338**	**4214.67**	**1.80**	**0.02**	**113.20**		**113.18**
Year 1	2011	< 0.1 ha	455	100.48	0.22	0.02	0.22	0.02	0.21
Date 1	0105	0.1 - 0.5 ha	522	333.73	0.64	0.25	1.21	0.22	0.95
Year 2	2010	0.5 - 1 ha	152	269.43	1.77	1.33	2.45	0.37	1.11
Date 2	1213	1 - 10 ha	148	1214.02	8.20	2.53	24.69	5.52	22.15
		10 - 20 ha	26	829.42	31.90	25.13	49.37	5.97	24.24
		> 20 ha	3	235.84	78.61	49.82	110.63	30.53	60.81
		Total	**1306**	**2982.91**	**2.28**	**0.02**	**110.63**		**110.61**

Hill County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	819	182.14	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	721	474.48	0.66	0.44	1.11	0.23	0.67
Year 2	1997	0.5 - 1 ha	201	352.33	1.75	1.33	2.45	0.36	1.11
Date 2	0328	1 - 10 ha	199	1373.23	6.90	2.53	23.13	4.94	20.60
		10 - 20 ha	19	642.50	33.82	25.91	48.82	6.86	22.91
		> 20 ha	1	55.49	55.49	55.49	55.49	0.00	0.00
Baseline Wet		**Total**	**1960**	**3080.17**	**1.57**	**0.22**	**55.49**		**55.27**
Year 1		< 0.1 ha	492	109.42	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	454	304.68	0.67	0.44	1.22	0.24	0.78
Year 2	1999	0.5 - 1 ha	130	225.06	1.73	1.33	2.45	0.38	1.11
Date 2	0214	1 - 10 ha	163	1247.19	7.65	2.67	24.57	5.53	21.91
		10 - 20 ha	16	525.77	32.86	25.27	45.15	6.98	19.88
Baseline Dry		**Total**	**1255**	**2412.12**	**1.92**	**0.22**	**45.15**		**44.92**
Year 1		< 0.1 ha	698	155.23	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	634	418.10	0.66	0.44	1.22	0.24	0.78
Year 2	2003	0.5 - 1 ha	189	328.42	1.74	1.33	2.45	0.35	1.11
Date 2	1023	1 - 10 ha	164	1171.99	7.15	2.56	24.02	4.87	21.46
		10 - 20 ha	15	484.85	32.32	25.13	46.48	6.64	21.35
		> 20 ha	2	248.86	124.43	56.71	192.15	95.77	135.44
		Total	**1702**	**2807.45**	**1.65**	**0.22**	**192.15**		**191.93**
Year 1		< 0.1 ha	1262	280.66	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	1167	763.68	0.65	0.44	1.22	0.23	0.78
Year 2	2004	0.5 - 1 ha	262	447.51	1.71	1.33	2.45	0.35	1.11
Date 2	0907	1 - 10 ha	241	1620.72	6.72	2.56	23.24	5.04	20.68
		10 - 20 ha	16	548.43	34.28	26.24	48.26	6.87	22.02
		> 20 ha	1	61.94	61.94	61.94	61.94	0.00	0.00
		Total	**2949**	**3722.94**	**1.26**	**0.22**	**61.94**		**61.71**
Year 1		< 0.1 ha	770	171.24	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	925	610.36	0.66	0.44	1.22	0.23	0.78
Year 2	2005	0.5 - 1 ha	262	455.80	1.74	1.33	2.45	0.38	1.11
Date 2	0214	1 - 10 ha	220	1489.10	6.77	2.53	23.35	4.66	20.82
		10 - 20 ha	25	810.18	32.41	25.13	48.04	6.41	22.91
		Total	**2202**	**3536.69**	**1.61**	**0.22**	**48.04**		**47.81**
Year 1		< 0.1 ha	201	44.70	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	251	169.58	0.68	0.44	1.22	0.24	0.78
Year 2	2006	0.5 - 1 ha	77	135.99	1.77	1.33	2.45	0.37	1.11
Date 2	1116	1 - 10 ha	100	674.19	6.74	2.67	20.02	4.62	17.35
		10 - 20 ha	3	95.85	31.95	30.47	33.80	1.70	3.34
		Total	**632**	**1120.31**	**1.77**	**0.22**	**33.80**		**33.58**

Hill County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	603	134.10	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	669	442.01	0.66	0.44	1.22	0.23	0.78
Year 2	2007	0.5 - 1 ha	198	347.91	1.76	1.33	2.45	0.39	1.11
Date 2	0308	1 - 10 ha	183	1231.18	6.73	2.56	23.35	4.81	20.79
		10 - 20 ha	10	330.15	33.01	26.02	46.48	6.23	20.46
		Total	**1663**	**2485.35**	**1.49**	**0.22**	**46.48**		**46.26**
Year 1		< 0.1 ha	646	142.87	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	791	535.28	0.68	0.29	1.22	0.24	0.93
Year 2	2008	0.5 - 1 ha	262	458.03	1.75	1.33	2.45	0.36	1.11
Date 2	0207	1 - 10 ha	220	1534.98	6.98	2.56	24.24	5.29	21.68
		10 - 20 ha	15	481.35	32.09	25.13	46.04	6.05	20.91
		Total	**1934**	**3152.50**	**1.63**	**0.00**	**46.04**		**46.03**
Year 1		< 0.1 ha	1106	245.97	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	1232	807.79	0.66	0.44	1.22	0.23	0.78
Year 2	2008	0.5 - 1 ha	350	621.15	1.77	1.33	2.45	0.38	1.11
Date 2	0411	1 - 10 ha	307	1957.94	6.38	2.51	22.91	4.55	20.40
		10 - 20 ha	20	717.15	35.86	26.46	49.15	6.68	22.68
		> 20 ha	3	158.79	52.93	50.15	56.93	3.55	6.78
		Total	**3018**	**4508.79**	**1.49**	**0.22**	**56.93**		**56.71**
Year 1		< 0.1 ha	595	131.72	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	631	424.43	0.67	0.37	1.22	0.23	0.85
Year 2	2008	0.5 - 1 ha	211	371.07	1.76	1.33	2.45	0.38	1.11
Date 2	1004	1 - 10 ha	193	1325.64	6.87	2.56	24.46	5.18	21.91
		10 - 20 ha	9	333.04	37.00	28.69	47.59	7.24	18.90
		Total	**1639**	**2585.89**	**1.58**	**0.00**	**47.59**		**47.59**
Year 1		< 0.1 ha	584	129.45	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	642	430.58	0.67	0.25	1.23	0.24	0.99
Year 2	2008	0.5 - 1 ha	218	389.50	1.79	1.33	2.45	0.38	1.11
Date 2	1020	1 - 10 ha	204	1404.99	6.89	2.53	24.46	5.06	21.93
		10 - 20 ha	9	297.54	33.06	26.55	45.81	6.92	19.26
		Total	**1657**	**2652.05**	**1.60**	**0.00**	**45.81**		**45.81**
Year 1		< 0.1 ha	304	67.52	0.22	0.17	0.22	0.00	0.05
Date 1		0.1 - 0.5 ha	356	242.79	0.68	0.38	1.11	0.24	0.73
Year 2	2008	0.5 - 1 ha	131	230.99	1.76	1.33	2.45	0.38	1.11
Date 2	1121	1 - 10 ha	144	1038.70	7.21	2.67	24.02	5.28	21.35
		10 - 20 ha	6	185.25	30.88	25.13	42.48	6.55	17.35
		Total	**941**	**1765.26**	**1.88**	**0.17**	**42.48**		**42.31**

Hill County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	274	60.73	0.22	0.07	0.22	0.01	0.15
Date 1		0.1 - 0.5 ha	363	240.89	0.66	0.37	1.11	0.22	0.74
Year 2	2008	0.5 - 1 ha	133	237.10	1.78	1.33	2.45	0.38	1.11
Date 2	1207	1 - 10 ha	147	1065.05	7.25	2.67	24.69	5.27	22.02
		10 - 20 ha	5	155.45	31.09	25.13	42.26	6.82	17.12
		Total	**922**	**1759.22**	**1.91**	**0.07**	**42.26**		**42.19**
Year 1		< 0.1 ha	373	82.80	0.22	0.07	0.22	0.01	0.15
Date 1		0.1 - 0.5 ha	469	326.35	0.70	0.37	1.22	0.24	0.85
Year 2	2009	0.5 - 1 ha	150	257.90	1.72	1.33	2.45	0.36	1.11
Date 2	0108	1 - 10 ha	160	1122.65	7.02	2.67	22.24	4.99	19.57
		10 - 20 ha	8	241.31	30.16	24.80	42.26	5.99	17.46
		Total	**1160**	**2031.00**	**1.75**	**0.07**	**42.26**		**42.19**
Year 1		< 0.1 ha	741	164.37	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	869	584.23	0.67	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	289	502.36	1.74	1.33	2.45	0.38	1.11
Date 2	0329	1 - 10 ha	261	1714.31	6.57	2.56	23.80	4.84	21.24
		10 - 20 ha	16	544.01	34.00	26.02	48.26	5.90	22.24
		Total	**2176**	**3509.28**	**1.61**	**0.00**	**48.26**		**48.26**
Year 1		< 0.1 ha	953	211.37	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	1017	680.87	0.67	0.27	1.22	0.24	0.95
Year 2	2009	0.5 - 1 ha	311	547.46	1.76	1.33	2.45	0.37	1.11
Date 2	0414	1 - 10 ha	282	1845.39	6.54	2.47	24.46	4.92	21.99
		10 - 20 ha	16	539.09	33.69	25.35	48.04	5.70	22.68
		> 20 ha	1	50.82	50.82	50.82	50.82	0.00	0.00
		Total	**2580**	**3875.00**	**1.50**	**0.00**	**50.82**		**50.82**
Year 1		< 0.1 ha	868	191.80	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	953	641.00	0.67	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	290	514.62	1.77	1.33	2.45	0.37	1.11
Date 2	0703	1 - 10 ha	233	1519.34	6.52	2.56	22.91	4.70	20.35
		10 - 20 ha	18	598.35	33.24	25.80	46.26	6.40	20.46
		Total	**2362**	**3465.11**	**1.47**	**0.00**	**46.26**		**46.26**
Year 1		< 0.1 ha	1029	227.58	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	999	656.11	0.66	0.29	1.22	0.23	0.93
Year 2	2009	0.5 - 1 ha	308	531.61	1.73	1.33	2.45	0.35	1.11
Date 2	0804	1 - 10 ha	254	1655.13	6.52	2.67	24.69	4.73	22.02
		10 - 20 ha	16	506.03	31.63	25.13	45.59	6.46	20.46
		Total	**2606**	**3576.47**	**1.37**	**0.00**	**45.59**		**45.59**

Hill County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	1115	247.97	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	1261	848.66	0.67	0.44	1.22	0.23	0.78
Year 2	2009	0.5 - 1 ha	406	720.11	1.77	1.33	2.45	0.38	1.11
Date 2	1023	1 - 10 ha	357	2290.00	6.41	2.67	23.80	4.57	21.13
		10 - 20 ha	22	796.17	36.19	26.02	49.37	6.84	23.35
		> 20 ha	6	636.38	106.06	49.59	288.89	91.40	239.30
		Total	**3167**	**5539.30**	**1.75**	**0.22**	**288.89**		**288.67**
Year 1		< 0.1 ha	1058	233.48	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	1026	700.00	0.68	0.29	1.22	0.24	0.93
Year 2	2009	0.5 - 1 ha	345	613.05	1.78	1.33	2.45	0.37	1.12
Date 2	1124	1 - 10 ha	326	2156.01	6.61	2.52	24.69	4.89	22.16
		10 - 20 ha	27	909.37	33.68	24.91	49.15	7.20	24.24
		> 20 ha	12	1482.32	123.53	51.15	264.87	65.53	213.72
		Total	**2794**	**6094.22**	**2.18**	**0.00**	**264.87**		**264.87**
Year 1		< 0.1 ha	298	66.05	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	374	265.27	0.71	0.36	1.11	0.25	0.75
Year 2	2010	0.5 - 1 ha	160	283.00	1.77	1.33	2.45	0.34	1.11
Date 2	0111	1 - 10 ha	173	1277.35	7.38	2.56	24.69	5.58	22.13
		10 - 20 ha	15	454.13	30.28	24.91	40.03	5.48	15.12
		Total	**1020**	**2345.80**	**2.30**	**0.00**	**40.03**		**40.03**
Year 1		< 0.1 ha	1366	301.85	0.22	0.00	0.25	0.02	0.24
Date 1		0.1 - 0.5 ha	1675	1101.34	0.66	0.39	1.22	0.23	0.83
Year 2	2010	0.5 - 1 ha	503	878.26	1.75	1.33	2.45	0.37	1.11
Date 2	0620	1 - 10 ha	385	2397.51	6.23	2.56	24.24	4.56	21.68
		10 - 20 ha	21	713.64	33.98	26.46	49.37	6.25	22.91
		> 20 ha	9	1079.95	119.99	56.27	368.29	98.54	312.02
		Total	**3959**	**6472.54**	**1.63**	**0.00**	**368.29**		**368.28**
Year 1		< 0.1 ha	1040	231.29	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	1148	765.82	0.67	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	293	513.48	1.75	1.33	2.45	0.36	1.11
Date 2	1127	1 - 10 ha	290	1910.57	6.59	2.56	24.24	4.79	21.68
		10 - 20 ha	16	504.39	31.52	25.13	45.59	5.58	20.46
		> 20 ha	1	50.26	50.26	50.26	50.26	0.00	0.00
		Total	**2788**	**3975.81**	**1.43**	**0.22**	**50.26**		**50.04**
Year 1		< 0.1 ha	439	97.44	0.22	0.05	0.22	0.01	0.17
Date 1		0.1 - 0.5 ha	567	387.84	0.68	0.38	1.22	0.23	0.84
Year 2	2010	0.5 - 1 ha	173	299.42	1.73	1.27	2.45	0.36	1.18
Date 2	1213	1 - 10 ha	191	1355.95	7.10	2.67	24.69	5.28	22.02
		10 - 20 ha	8	255.98	32.00	25.58	40.25	5.78	14.68
		Total	**1378**	**2396.62**	**1.74**	**0.05**	**40.25**		**40.20**

Hood County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	1997	< 0.1 ha	417	92.33	0.22	0.01	0.22	0.01	0.21
Date 1	0303	0.1 - 0.5 ha	502	336.83	0.67	0.25	1.22	0.25	0.97
Year 2	1997	0.5 - 1 ha	143	247.23	1.73	1.33	2.46	0.35	1.13
Date 2	0328	1 - 10 ha	89	475.89	5.35	2.48	22.24	4.40	19.76
		10 - 20 ha	1	29.06	29.06	29.06	29.06	0.00	0.00
		> 20 ha	1	73.29	73.29	73.29	73.29	0.00	0.00
Baseline Wet		**Total**	**1153**	**1254.62**	**1.09**	**0.01**	**73.29**		**73.28**
Year 1	1999	< 0.1 ha	192	42.60	0.22	0.12	0.22	0.01	0.10
Date 1	0221	0.1 - 0.5 ha	215	143.95	0.67	0.25	1.19	0.25	0.93
Year 2	1999	0.5 - 1 ha	42	70.44	1.68	1.33	2.45	0.30	1.11
Date 2	0214	1 - 10 ha	42	252.07	6.00	2.49	24.54	4.40	22.06
		10 - 20 ha	1	60.41	60.41	60.41	60.41	0.00	0.00
Baseline Dry		**Total**	**492**	**569.47**	**1.16**	**0.12**	**60.41**		**60.29**
Year 1	2003	< 0.1 ha	379	84.26	0.22	0.20	0.22	0.00	0.03
Date 1	1014	0.1 - 0.5 ha	385	252.49	0.66	0.25	1.20	0.25	0.95
Year 2	2003	0.5 - 1 ha	87	151.78	1.74	1.31	2.45	0.37	1.14
Date 2	1023	1 - 10 ha	65	430.25	6.62	2.56	22.02	5.05	19.45
		10 - 20 ha	2	60.21	30.10	25.29	34.92	6.80	9.62
		> 20 ha	1	69.63	69.63	69.63	69.63	0.00	0.00
		Total	**919**	**1048.63**	**1.14**	**0.20**	**69.63**		**69.43**
Year 1	2004	< 0.1 ha	570	126.43	0.22	0.05	0.22	0.01	0.17
Date 1	1016	0.1 - 0.5 ha	510	334.81	0.66	0.25	1.20	0.24	0.95
Year 2	2004	0.5 - 1 ha	139	237.12	1.71	1.32	2.45	0.36	1.13
Date 2	0907	1 - 10 ha	88	515.78	5.86	2.47	20.29	4.49	17.81
		10 - 20 ha	5	145.08	29.02	25.80	35.58	3.89	9.79
		> 20 ha	1	69.83	69.83	69.83	69.83	0.00	0.00
		Total	**1313**	**1429.05**	**1.09**	**0.05**	**69.83**		**69.77**
Year 1	2005	< 0.1 ha	354	78.73	0.22	0.22	0.22	0.00	0.00
Date 1	0221	0.1 - 0.5 ha	576	390.99	0.68	0.25	1.23	0.25	0.97
Year 2	2005	0.5 - 1 ha	146	247.49	1.70	1.33	2.46	0.33	1.13
Date 2	0214	1 - 10 ha	92	545.97	5.93	2.52	23.80	4.77	21.28
		10 - 20 ha	3	92.33	30.78	28.69	34.47	3.21	5.78
		> 20 ha	1	75.68	75.68	75.68	75.68	0.00	0.00
		Total	**1172**	**1431.19**	**1.22**	**0.22**	**75.68**		**75.46**
Year 1	2006	< 0.1 ha	195	43.35	0.22	0.20	0.22	0.00	0.02
Date 1	1123	0.1 - 0.5 ha	251	174.59	0.70	0.25	1.18	0.26	0.93
Year 2	2006	0.5 - 1 ha	78	137.97	1.77	1.33	2.45	0.36	1.11
Date 2	1116	1 - 10 ha	52	317.20	6.10	2.67	18.90	3.94	16.23
		10 - 20 ha	1	33.14	33.14	33.14	33.14	0.00	0.00
		> 20 ha	1	66.47	66.47	66.47	66.47	0.00	0.00
		Total	**578**	**772.71**	**1.34**	**0.20**	**66.47**		**66.27**

Hood County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2007	< 0.1 ha	375	83.30	0.22	0.15	0.22	0.00	0.07
Date 1	0331	0.1 - 0.5 ha	556	383.20	0.69	0.25	1.22	0.25	0.97
Year 2	2007	0.5 - 1 ha	162	282.48	1.74	1.31	2.45	0.36	1.14
Date 2	0308	1 - 10 ha	109	558.09	5.12	2.48	21.34	3.43	18.86
		10 - 20 ha	4	125.85	31.46	26.02	36.92	4.50	10.90
		> 20 ha	1	73.72	73.72	73.72	73.72	0.00	0.00
		Total	**1207**	**1506.64**	**1.25**	**0.15**	**73.72**		**73.57**
Year 1		< 0.1 ha	253	56.18	0.22	0.14	0.22	0.01	0.09
Date 1		0.1 - 0.5 ha	411	280.30	0.68	0.39	1.22	0.24	0.83
Year 2	2008	0.5 - 1 ha	128	221.48	1.73	1.33	2.45	0.34	1.11
Date 2	0207	1 - 10 ha	83	506.20	6.10	2.67	21.57	4.28	18.90
		10 - 20 ha	4	130.99	32.75	26.02	42.03	7.02	16.01
		> 20 ha	1	158.79	158.79	158.79	158.79	0.00	0.00
		Total	**880**	**1353.93**	**1.54**	**0.14**	**158.79**		**158.65**
Year 1	2008	< 0.1 ha	536	118.99	0.22	0.08	0.22	0.01	0.14
Date 1	0418	0.1 - 0.5 ha	678	447.43	0.66	0.25	1.22	0.24	0.97
Year 2	2008	0.5 - 1 ha	205	347.41	1.69	1.31	2.45	0.35	1.14
Date 2	0411	1 - 10 ha	128	720.78	5.63	2.48	23.02	3.91	20.54
		10 - 20 ha	4	136.40	34.10	30.47	37.81	4.03	7.34
		> 20 ha	1	70.32	70.32	70.32	70.32	0.00	0.00
		Total	**1552**	**1841.32**	**1.19**	**0.08**	**70.32**		**70.24**
Year 1		< 0.1 ha	201	44.56	0.22	0.08	0.22	0.01	0.14
Date 1		0.1 - 0.5 ha	261	181.09	0.69	0.40	1.11	0.25	0.72
Year 2	2008	0.5 - 1 ha	88	158.46	1.80	1.33	2.45	0.39	1.11
Date 2	1004	1 - 10 ha	70	415.36	5.93	2.67	17.57	3.57	14.90
		10 - 20 ha	2	72.28	36.14	32.91	39.36	4.56	6.45
		> 20 ha	1	144.45	144.45	144.45	144.45	0.00	0.00
		Total	**623**	**1016.20**	**1.63**	**0.08**	**144.45**		**144.36**
Year 1		< 0.1 ha	163	36.16	0.22	0.14	0.22	0.01	0.09
Date 1		0.1 - 0.5 ha	251	172.98	0.69	0.40	1.11	0.25	0.72
Year 2	2008	0.5 - 1 ha	88	148.23	1.68	1.33	2.45	0.37	1.11
Date 2	1020	1 - 10 ha	69	421.94	6.12	2.67	20.55	4.01	17.89
		10 - 20 ha	2	66.05	33.03	29.36	36.70	5.19	7.34
		> 20 ha	1	49.71	49.71	49.71	49.71	0.00	0.00
		Total	**574**	**895.06**	**1.56**	**0.14**	**49.71**		**49.57**
Year 1		< 0.1 ha	158	35.14	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	227	156.59	0.69	0.44	1.11	0.23	0.67
Year 2	2008	0.5 - 1 ha	68	117.98	1.74	1.33	2.45	0.37	1.11
Date 2	1121	1 - 10 ha	62	355.84	5.74	2.67	16.01	3.37	13.34
		10 - 20 ha	3	102.86	34.29	28.69	41.03	6.25	12.34
		Total	**518**	**768.41**	**1.48**	**0.22**	**41.03**		**40.81**

Hood County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	138	30.60	0.22	0.14	0.22	0.01	0.09
Date 1		0.1 - 0.5 ha	218	150.69	0.69	0.44	1.11	0.24	0.67
Year 2	2008	0.5 - 1 ha	70	121.84	1.74	1.33	2.45	0.36	1.11
Date 2	1207	1 - 10 ha	56	339.23	6.06	2.67	18.68	3.83	16.01
		10 - 20 ha	2	59.38	29.69	26.02	33.36	5.19	7.34
		> 20 ha	1	51.60	51.60	51.60	51.60	0.00	0.00
		Total	**485**	**753.35**	**1.55**	**0.14**	**51.60**		**51.46**
Year 1		< 0.1 ha	155	34.38	0.22	0.14	0.22	0.01	0.09
Date 1		0.1 - 0.5 ha	227	151.03	0.67	0.44	1.11	0.23	0.67
Year 2	2009	0.5 - 1 ha	83	145.56	1.75	1.33	2.45	0.43	1.11
Date 2	0108	1 - 10 ha	63	393.65	6.25	2.67	21.57	4.23	18.90
		10 - 20 ha	2	59.16	29.58	25.35	33.80	5.98	8.45
		Total	**530**	**783.78**	**1.48**	**0.14**	**33.80**		**33.67**
Year 1		< 0.1 ha	304	67.39	0.22	0.09	0.22	0.01	0.13
Date 1		0.1 - 0.5 ha	381	257.44	0.68	0.44	1.22	0.23	0.78
Year 2	2009	0.5 - 1 ha	117	208.83	1.78	1.33	2.45	0.37	1.11
Date 2	0329	1 - 10 ha	88	509.36	5.79	2.67	24.02	4.05	21.35
		10 - 20 ha	2	61.38	30.69	24.91	36.47	8.18	11.56
		> 20 ha	2	121.21	60.60	60.05	61.16	0.79	1.11
		Total	**894**	**1225.61**	**1.37**	**0.09**	**61.16**		**61.07**
Year 1		< 0.1 ha	315	69.97	0.22	0.14	0.22	0.00	0.09
Date 1		0.1 - 0.5 ha	401	268.44	0.67	0.39	1.22	0.23	0.83
Year 2	2009	0.5 - 1 ha	112	191.04	1.71	1.33	2.45	0.35	1.11
Date 2	0414	1 - 10 ha	100	598.53	5.99	2.67	24.24	4.62	21.57
		10 - 20 ha	1	36.92	36.92	36.92	36.92	0.00	0.00
		> 20 ha	1	65.27	65.27	65.27	65.27	0.00	0.00
		Total	**930**	**1230.16**	**1.32**	**0.14**	**65.27**		**65.14**
Year 1		< 0.1 ha	304	67.60	0.22	0.21	0.22	0.00	0.01
Date 1		0.1 - 0.5 ha	335	228.79	0.68	0.27	1.22	0.24	0.95
Year 2	2009	0.5 - 1 ha	112	194.93	1.74	1.33	2.45	0.39	1.11
Date 2	0703	1 - 10 ha	91	562.54	6.18	2.67	20.79	4.43	18.13
		10 - 20 ha	2	62.94	31.47	25.58	37.36	8.33	11.79
		> 20 ha	1	66.05	66.05	66.05	66.05	0.00	0.00
		Total	**845**	**1182.85**	**1.40**	**0.21**	**66.05**		**65.84**
Year 1		< 0.1 ha	544	120.36	0.22	0.01	0.22	0.01	0.21
Date 1		0.1 - 0.5 ha	576	383.03	0.66	0.44	1.22	0.23	0.78
Year 2	2009	0.5 - 1 ha	129	225.62	1.75	1.33	2.45	0.38	1.11
Date 2	0804	1 - 10 ha	115	700.98	6.10	2.67	22.91	4.23	20.24
		10 - 20 ha	1	37.14	37.14	37.14	37.14	0.00	0.00
		> 20 ha	1	67.72	67.72	67.72	67.72	0.00	0.00
		Total	**1366**	**1534.84**	**1.12**	**0.01**	**67.72**		**67.71**

Hood County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2009	< 0.1 ha	489	108.64	0.22	0.17	0.22	0.00	0.05
Date 1	0928	0.1 - 0.5 ha	599	400.91	0.67	0.31	1.23	0.24	0.92
Year 2	2009	0.5 - 1 ha	168	288.94	1.72	1.25	2.45	0.34	1.19
Date 2	1023	1 - 10 ha	157	953.36	6.07	2.53	24.24	4.91	21.71
		10 - 20 ha	2	63.60	31.80	26.69	36.92	7.23	10.23
		> 20 ha	1	77.36	77.36	77.36	77.36	0.00	0.00
		Total	**1416**	**1892.82**	**1.34**	**0.17**	**77.36**		**77.19**
Year 1		< 0.1 ha	414	91.85	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	476	326.63	0.69	0.27	1.22	0.24	0.95
Year 2	2009	0.5 - 1 ha	144	251.97	1.75	1.33	2.45	0.36	1.11
Date 2	1124	1 - 10 ha	120	711.56	5.93	2.67	22.91	4.59	20.24
		10 - 20 ha	3	109.75	36.58	30.80	43.14	6.21	12.34
		Total	**1157**	**1491.77**	**1.29**	**0.00**	**43.14**		**43.14**
Year 1		< 0.1 ha	323	71.40	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	398	275.38	0.69	0.39	1.22	0.24	0.83
Year 2	2009	0.5 - 1 ha	124	221.30	1.78	1.24	2.45	0.39	1.20
Date 2	1210	1 - 10 ha	101	604.95	5.99	2.56	23.35	4.39	20.79
		10 - 20 ha	3	101.97	33.99	29.80	38.14	4.17	8.34
		> 20 ha	1	50.04	50.04	50.04	50.04	0.00	0.00
		Total	**950**	**1325.04**	**1.39**	**0.00**	**50.04**		**50.04**
Year 1		< 0.1 ha	139	30.61	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	197	132.35	0.67	0.44	1.22	0.23	0.78
Year 2	2010	0.5 - 1 ha	81	144.67	1.79	1.33	2.45	0.37	1.11
Date 2	0111	1 - 10 ha	71	445.66	6.28	2.67	22.68	4.64	20.02
		10 - 20 ha	2	57.16	28.58	25.80	31.36	3.93	5.56
		Total	**490**	**810.44**	**1.65**	**0.00**	**31.36**		**31.35**
Year 1		< 0.1 ha	662	146.80	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	693	459.67	0.66	0.27	1.22	0.23	0.95
Year 2	2010	0.5 - 1 ha	217	375.81	1.73	1.33	2.45	0.36	1.11
Date 2	0620	1 - 10 ha	159	901.56	5.67	2.56	21.35	3.92	18.79
		10 - 20 ha	6	171.24	28.54	25.35	32.47	3.24	7.12
		> 20 ha	2	139.89	69.94	64.05	75.84	8.33	11.79
		Total	**1739**	**2194.97**	**1.26**	**0.00**	**75.84**		**75.83**
Year 1		< 0.1 ha	933	206.74	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	800	526.57	0.66	0.39	1.22	0.23	0.83
Year 2	2010	0.5 - 1 ha	216	371.87	1.72	1.33	2.45	0.36	1.11
Date 2	0807	1 - 10 ha	147	928.65	6.32	2.67	24.46	4.61	21.79
		10 - 20 ha	5	173.25	34.65	29.13	40.25	5.36	11.12
		> 20 ha	1	61.16	61.16	61.16	61.16	0.00	0.00
		Total	**2102**	**2268.23**	**1.08**	**0.02**	**61.16**		**61.14**

Hood County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	465	103.20	0.22	0.01	0.22	0.01	0.21
Date 1		0.1 - 0.5 ha	518	347.06	0.67	0.27	1.22	0.24	0.95
Year 2	2010	0.5 - 1 ha	166	294.23	1.77	1.33	2.45	0.39	1.11
Date 2	1010	1 - 10 ha	108	669.86	6.20	2.67	23.57	4.65	20.91
		10 - 20 ha	5	152.65	30.53	25.58	36.25	4.88	10.67
		> 20 ha	1	69.61	69.61	69.61	69.61	0.00	0.00
		Total	**1263**	**1636.61**	**1.30**	**0.01**	**69.61**		**69.60**
Year 1	2010	< 0.1 ha	413	91.80	0.22	0.16	0.24	0.00	0.07
Date 1	1118	0.1 - 0.5 ha	659	432.18	0.66	0.37	1.22	0.23	0.85
Year 2	2010	0.5 - 1 ha	187	318.00	1.70	1.33	2.45	0.37	1.11
Date 2	1127	1 - 10 ha	133	798.27	6.00	2.67	19.79	4.15	17.12
		10 - 20 ha	5	155.68	31.14	25.35	37.58	5.29	12.23
		> 20 ha	1	72.28	72.28	72.28	72.28	0.00	0.00
		Total	**1398**	**1868.21**	**1.34**	**0.16**	**72.28**		**72.11**
Year 1		< 0.1 ha	199	44.07	0.22	0.12	0.22	0.01	0.11
Date 1		0.1 - 0.5 ha	257	177.27	0.69	0.44	1.11	0.23	0.67
Year 2	2010	0.5 - 1 ha	86	146.89	1.71	1.33	2.45	0.36	1.11
Date 2	1213	1 - 10 ha	81	501.67	6.19	2.47	24.46	4.81	21.99
		10 - 20 ha	3	102.52	34.17	27.13	42.92	8.03	15.79
		Total	**626**	**972.42**	**1.55**	**0.12**	**42.92**		**42.80**

Jack County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	1997	< 0.1 ha	1060	234.84	0.22	0.00	0.22	0.01	0.22
Date 1	0303	0.1 - 0.5 ha	2214	1545.03	0.70	0.25	1.22	0.24	0.97
Year 2	1997	0.5 - 1 ha	744	1259.82	1.69	1.26	2.47	0.34	1.22
Date 2	0328	1 - 10 ha	363	1851.66	5.10	2.49	24.69	3.64	22.20
		10 - 20 ha	8	265.43	33.18	26.02	40.11	5.00	14.09
		> 20 ha	13	1416.65	108.97	54.93	574.89	140.83	519.96
Baseline Wet		**Total**	**4402**	**6573.44**	**1.49**	**0.00**	**574.89**		**574.89**
Year 1	1999	< 0.1 ha	445	98.82	0.22	0.07	0.22	0.01	0.15
Date 1	0221	0.1 - 0.5 ha	428	273.84	0.64	0.25	1.22	0.24	0.97
Year 2	1999	0.5 - 1 ha	88	149.55	1.70	1.32	2.45	0.35	1.13
Date 2	0214	1 - 10 ha	69	436.71	6.33	2.50	23.00	4.31	20.50
		10 - 20 ha	5	172.24	34.45	28.02	41.37	5.82	13.34
		> 20 ha	4	630.04	157.51	51.37	464.14	204.45	412.76
Baseline Dry		**Total**	**1039**	**1761.22**	**1.70**	**0.07**	**464.14**		**464.06**
Year 1	2003	< 0.1 ha	818	181.40	0.22	0.01	0.22	0.01	0.21
Date 1	1014	0.1 - 0.5 ha	995	620.62	0.62	0.25	1.22	0.24	0.97
Year 2	2003	0.5 - 1 ha	196	330.39	1.69	1.33	2.45	0.34	1.11
Date 2	1023	1 - 10 ha	101	605.33	5.99	2.56	20.68	4.24	18.11
		10 - 20 ha	5	204.65	40.93	38.25	44.92	2.93	6.67
		> 20 ha	3	642.05	214.02	57.60	497.72	246.12	440.12
		Total	**2118**	**2584.44**	**1.22**	**0.01**	**497.72**		**497.71**
Year 1	2004	< 0.1 ha	1189	264.04	0.22	0.02	0.22	0.01	0.21
Date 1	1016	0.1 - 0.5 ha	1796	1199.09	0.67	0.25	1.22	0.24	0.97
Year 2	2004	0.5 - 1 ha	438	749.06	1.71	1.26	2.46	0.36	1.20
Date 2	0907	1 - 10 ha	207	1121.77	5.42	2.47	24.69	4.14	22.21
		10 - 20 ha	8	301.60	37.70	27.40	46.93	6.96	19.52
		> 20 ha	4	761.70	190.43	54.04	545.53	237.58	491.49
		Total	**3642**	**4397.26**	**1.21**	**0.02**	**545.53**		**545.52**
Year 1	2005	< 0.1 ha	1131	250.81	0.22	0.02	0.23	0.01	0.21
Date 1	0221	0.1 - 0.5 ha	1725	1143.01	0.66	0.25	1.20	0.24	0.95
Year 2	2005	0.5 - 1 ha	391	656.65	1.68	1.26	2.45	0.33	1.19
Date 2	0214	1 - 10 ha	186	1077.12	5.79	2.52	23.57	4.42	21.05
		10 - 20 ha	8	298.03	37.25	26.02	46.67	7.91	20.65
		> 20 ha	4	729.01	182.25	52.93	528.41	231.56	475.48
		Total	**3445**	**4154.63**	**1.21**	**0.02**	**528.41**		**528.39**
Year 1	2006	< 0.1 ha	606	134.53	0.22	0.01	0.22	0.01	0.21
Date 1	1123	0.1 - 0.5 ha	613	382.00	0.62	0.25	1.22	0.23	0.97
Year 2	2006	0.5 - 1 ha	87	150.40	1.73	1.33	2.47	0.34	1.14
Date 2	1116	1 - 10 ha	68	448.27	6.59	2.53	20.76	4.55	18.23
		10 - 20 ha	3	94.68	31.56	29.07	33.58	2.29	4.51
		> 20 ha	3	608.36	202.79	49.93	481.04	241.37	431.11
		Total	**1380**	**1818.25**	**1.32**	**0.01**	**481.04**		**481.03**

Jack County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2007	< 0.1 ha	1558	345.70	0.22	0.00	0.22	0.01	0.22
Date 1	0331	0.1 - 0.5 ha	2469	1676.52	0.68	0.25	1.22	0.24	0.97
Year 2	2007	0.5 - 1 ha	763	1308.26	1.71	1.33	2.47	0.36	1.14
Date 2	0308	1 - 10 ha	463	2527.16	5.46	2.47	24.69	4.04	22.21
		10 - 20 ha	13	456.25	35.10	26.80	48.04	7.27	21.24
		> 20 ha	16	2088.69	130.54	51.60	619.37	137.91	567.77
		Total	**5282**	**8402.59**	**1.59**	**0.00**	**619.37**		**619.37**
Year 1	2008	< 0.1 ha	1276	283.14	0.22	0.02	0.22	0.01	0.20
Date 1	0418	0.1 - 0.5 ha	2285	1540.36	0.67	0.25	1.22	0.25	0.97
Year 2	2008	0.5 - 1 ha	694	1193.77	1.72	1.32	2.46	0.35	1.14
Date 2	0411	1 - 10 ha	366	1929.53	5.27	2.48	24.69	3.92	22.21
		10 - 20 ha	6	210.34	35.06	25.35	48.70	9.10	23.35
		> 20 ha	11	1222.10	111.10	51.05	568.22	152.75	517.17
		Total	**4638**	**6379.25**	**1.38**	**0.02**	**568.22**		**568.20**
Year 1	2008	< 0.1 ha	1493	330.91	0.22	0.01	0.24	0.01	0.23
Date 1	0723	0.1 - 0.5 ha	2270	1550.69	0.68	0.25	1.22	0.23	0.97
Year 2		0.5 - 1 ha	673	1158.81	1.72	1.30	2.45	0.36	1.15
Date 2		1 - 10 ha	313	1696.22	5.42	2.53	23.57	4.02	21.05
		10 - 20 ha	11	375.96	34.18	25.35	49.37	7.15	24.02
		> 20 ha	6	975.20	162.53	52.04	622.71	226.01	570.67
		Total	**4766**	**6087.78**	**1.28**	**0.01**	**622.71**		**622.70**
Year 1	2008	< 0.1 ha	839	186.18	0.22	0.09	0.22	0.01	0.14
Date 1	1027	0.1 - 0.5 ha	951	619.26	0.65	0.44	1.11	0.22	0.67
Year 2		0.5 - 1 ha	200	344.99	1.72	1.33	2.45	0.36	1.11
Date 2		1 - 10 ha	120	750.00	6.25	2.48	21.35	4.35	18.87
		10 - 20 ha	7	248.53	35.50	27.13	48.37	7.88	21.24
		> 20 ha	3	643.17	214.39	60.49	511.73	257.56	451.24
		Total	**2120**	**2792.12**	**1.32**	**0.09**	**511.73**		**511.65**
Year 1	2008	< 0.1 ha	629	139.64	0.22	0.09	0.22	0.01	0.14
Date 1	1214	0.1 - 0.5 ha	579	371.96	0.64	0.44	1.22	0.23	0.78
Year 2		0.5 - 1 ha	91	152.95	1.68	1.33	2.45	0.32	1.11
Date 2		1 - 10 ha	86	539.14	6.27	2.67	23.80	4.51	21.13
		10 - 20 ha	4	144.22	36.06	32.25	38.70	2.80	6.45
		> 20 ha	4	273.77	68.44	49.59	111.64	29.38	62.05
		Total	**1393**	**1621.67**	**1.16**	**0.09**	**111.64**		**111.56**
Year 1	2009	< 0.1 ha	562	124.99	0.22	0.22	0.22	0.00	0.00
Date 1	0115	0.1 - 0.5 ha	622	398.64	0.64	0.44	1.11	0.22	0.67
Year 2		0.5 - 1 ha	98	162.81	1.66	1.33	2.45	0.32	1.11
Date 2		1 - 10 ha	88	538.75	6.12	2.67	22.68	4.28	20.02
		10 - 20 ha	5	180.03	36.01	31.36	39.59	3.17	8.23
		> 20 ha	4	626.38	156.59	50.26	464.81	205.54	414.54
		Total	**1379**	**2031.60**	**1.47**	**0.22**	**464.81**		**464.58**

Jack County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2009	< 0.1 ha	680	151.23	0.22	0.22	0.22	0.00	0.00
Date 1	0131	0.1 - 0.5 ha	824	534.86	0.65	0.44	1.22	0.22	0.78
Year 2		0.5 - 1 ha	128	215.74	1.69	1.33	2.45	0.34	1.11
Date 2		1 - 10 ha	100	614.81	6.15	2.67	24.46	4.38	21.79
		10 - 20 ha	5	182.92	36.58	33.36	38.47	1.97	5.12
		> 20 ha	4	638.27	159.57	52.93	469.03	206.34	416.10
		Total	**1741**	**2337.84**	**1.34**	**0.22**	**469.03**		**468.81**
Year 1	2009	< 0.1 ha	683	151.90	0.22	0.22	0.22	0.00	0.00
Date 1	0421	0.1 - 0.5 ha	847	560.30	0.66	0.44	1.22	0.23	0.78
Year 2		0.5 - 1 ha	204	350.82	1.72	1.33	2.45	0.39	1.11
Date 2		1 - 10 ha	104	645.95	6.21	2.67	21.79	4.22	19.13
		10 - 20 ha	4	147.00	36.75	35.58	37.36	0.84	1.78
		> 20 ha	4	668.52	167.13	50.71	491.94	216.62	441.23
		Total	**1846**	**2524.48**	**1.37**	**0.22**	**491.94**		**491.71**
Year 1	2009	< 0.1 ha	1021	226.49	0.22	0.08	0.24	0.01	0.17
Date 1	0608	0.1 - 0.5 ha	1262	826.42	0.65	0.31	1.22	0.23	0.91
Year 2		0.5 - 1 ha	287	486.21	1.69	1.33	2.45	0.36	1.11
Date 2		1 - 10 ha	139	785.34	5.65	2.67	21.79	3.85	19.13
		10 - 20 ha	6	215.06	35.84	28.02	44.26	6.91	16.23
		> 20 ha	3	657.84	219.28	60.27	494.16	239.03	433.89
		Total	**2718**	**3197.36**	**1.18**	**0.08**	**494.16**		**494.08**
Year 1	2009	< 0.1 ha	1204	267.26	0.22	0.09	0.22	0.01	0.13
Date 1	0710	0.1 - 0.5 ha	1387	917.49	0.66	0.25	1.24	0.23	0.99
Year 2		0.5 - 1 ha	335	555.82	1.66	1.33	2.45	0.33	1.11
Date 2		1 - 10 ha	169	924.67	5.47	2.56	22.02	4.07	19.46
		10 - 20 ha	6	216.28	36.05	29.36	48.82	7.32	19.46
		> 20 ha	3	646.06	215.35	60.71	503.06	249.39	442.34
		Total	**3104**	**3527.57**	**1.14**	**0.09**	**503.06**		**502.97**
Year 1	2009	< 0.1 ha	1021	226.48	0.22	0.02	0.22	0.01	0.21
Date 1	0928	0.1 - 0.5 ha	1326	878.57	0.66	0.25	1.23	0.24	0.98
Year 2	2009	0.5 - 1 ha	330	560.49	1.70	1.24	2.46	0.36	1.22
Date 2	1023	1 - 10 ha	190	988.53	5.20	2.49	23.35	3.74	20.87
		10 - 20 ha	9	314.63	34.96	24.91	48.99	9.88	24.08
		> 20 ha	4	652.59	163.15	56.13	447.01	190.02	390.88
		Total	**2880**	**3621.30**	**1.26**	**0.02**	**447.01**		**447.00**
Year 1	2010	< 0.1 ha	1218	270.49	0.22	0.10	0.22	0.01	0.13
Date 1	0323	0.1 - 0.5 ha	2474	1747.67	0.71	0.26	1.22	0.24	0.97
Year 2		0.5 - 1 ha	942	1633.77	1.73	1.33	2.45	0.38	1.11
Date 2		1 - 10 ha	452	2433.20	5.38	2.56	23.35	3.78	20.79
		10 - 20 ha	13	414.46	31.88	24.91	43.14	5.02	18.24
		> 20 ha	11	1262.31	114.76	52.26	596.02	160.40	543.76
		Total	**5110**	**7761.90**	**1.52**	**0.10**	**596.02**		**595.92**

Jack County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2010	< 0.1 ha	1214	269.17	0.22	0.09	0.24	0.01	0.15
Date 1	0408	0.1 - 0.5 ha	1879	1280.79	0.68	0.25	1.22	0.24	0.97
Year 2		0.5 - 1 ha	575	985.23	1.71	1.33	2.45	0.36	1.11
Date 2		1 - 10 ha	295	1657.13	5.62	2.67	22.46	3.89	19.79
		10 - 20 ha	9	301.96	33.55	26.46	48.48	7.11	22.02
		> 20 ha	10	1100.85	110.09	50.04	551.76	156.12	501.72
		Total	**3982**	**5595.13**	**1.41**	**0.09**	**551.76**		**551.67**
Year 1	2010	< 0.1 ha	1494	331.79	0.22	0.08	0.24	0.01	0.16
Date 1	0627	0.1 - 0.5 ha	2564	1730.00	0.67	0.25	1.22	0.23	0.97
Year 2		0.5 - 1 ha	661	1104.88	1.67	1.33	2.45	0.35	1.11
Date 2		1 - 10 ha	327	1836.50	5.62	2.56	24.69	4.27	22.13
		10 - 20 ha	9	335.37	37.26	25.13	46.93	7.84	21.79
		> 20 ha	7	997.33	142.48	49.82	562.88	186.48	513.06
		Total	**5062**	**6335.87**	**1.25**	**0.08**	**562.88**		**562.80**
Year 1	2010	< 0.1 ha	1399	310.33	0.22	0.08	0.24	0.01	0.17
Date 1	1001	0.1 - 0.5 ha	1679	1120.72	0.67	0.25	1.22	0.24	0.97
Year 2		0.5 - 1 ha	408	694.76	1.70	1.33	2.45	0.35	1.11
Date 2		1 - 10 ha	209	1175.14	5.62	2.47	22.68	4.08	20.21
		10 - 20 ha	9	322.03	35.78	25.80	47.81	8.73	22.02
		> 20 ha	4	772.49	193.12	61.60	535.75	228.93	474.15
		Total	**3708**	**4395.46**	**1.19**	**0.08**	**535.75**		**535.67**
Year 1	2010	< 0.1 ha	787	174.60	0.22	0.03	0.22	0.01	0.20
Date 1	1118	0.1 - 0.5 ha	1048	693.58	0.66	0.44	1.22	0.23	0.78
Year 2	2010	0.5 - 1 ha	245	418.44	1.71	1.33	2.45	0.35	1.11
Date 2	1127	1 - 10 ha	132	831.06	6.30	2.56	24.69	4.34	22.13
		10 - 20 ha	9	303.79	33.75	27.58	46.26	7.24	18.68
		> 20 ha	5	758.37	151.67	49.59	499.94	195.32	450.35
		Total	**2226**	**3179.84**	**1.43**	**0.03**	**499.94**		**499.92**
Year 1	2011	< 0.1 ha	784	173.88	0.22	0.08	0.22	0.01	0.15
Date 1	0105	0.1 - 0.5 ha	969	619.42	0.64	0.44	1.22	0.22	0.78
Year 2		0.5 - 1 ha	171	290.31	1.70	1.33	2.45	0.35	1.11
Date 2		1 - 10 ha	127	801.72	6.31	2.59	24.24	4.79	21.65
		10 - 20 ha	8	286.00	35.75	26.02	48.70	7.67	22.68
		> 20 ha	4	692.87	173.22	53.37	479.26	204.52	425.89
		Total	**2063**	**2864.21**	**1.39**	**0.08**	**479.26**		**479.18**

Johnson County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	628	139.59	0.22	0.18	0.22	0.00	0.05
Date 1		0.1 - 0.5 ha	621	410.88	0.66	0.44	1.22	0.24	0.78
Year 2	1997	0.5 - 1 ha	161	273.10	1.70	1.33	2.45	0.36	1.11
Date 2	0328	1 - 10 ha	111	717.64	6.47	2.56	24.69	5.10	22.13
		10 - 20 ha	8	237.78	29.72	25.13	40.92	4.98	15.79
		> 20 ha	2	203.05	101.52	98.30	104.75	4.56	6.45
Baseline Wet		**Total**	**1531**	**1982.04**	**1.29**	**0.18**	**104.75**		**104.57**
Year 1		< 0.1 ha	491	109.20	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	521	340.54	0.65	0.44	1.11	0.23	0.67
Year 2	1999	0.5 - 1 ha	125	212.05	1.70	1.33	2.45	0.38	1.11
Date 2	0214	1 - 10 ha	84	604.44	7.20	2.67	24.69	5.48	22.02
		10 - 20 ha	7	206.90	29.56	25.65	41.59	5.65	15.94
		> 20 ha	2	203.94	101.97	98.52	105.42	4.87	6.89
Baseline Dry		**Total**	**1230**	**1677.07**	**1.36**	**0.22**	**105.42**		**105.19**
Year 1		< 0.1 ha	494	109.86	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	412	270.22	0.66	0.26	1.22	0.23	0.96
Year 2	2003	0.5 - 1 ha	107	183.09	1.71	1.28	2.45	0.36	1.16
Date 2	1023	1 - 10 ha	83	598.35	7.21	2.67	24.02	5.40	21.35
		10 - 20 ha	6	172.39	28.73	24.94	37.58	4.55	12.64
		> 20 ha	2	183.92	91.96	80.73	103.19	15.88	22.46
		Total	**1104**	**1517.84**	**1.37**	**0.22**	**103.19**		**102.97**
Year 1		< 0.1 ha	649	144.33	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	625	410.22	0.66	0.26	1.22	0.23	0.96
Year 2	2004	0.5 - 1 ha	165	284.67	1.73	1.33	2.45	0.36	1.11
Date 2	0907	1 - 10 ha	111	735.07	6.62	2.67	24.69	4.92	22.02
		10 - 20 ha	8	241.70	30.21	24.91	42.70	5.76	17.79
		> 20 ha	2	187.70	93.85	74.72	112.98	27.05	38.25
		Total	**1560**	**2003.69**	**1.28**	**0.22**	**112.98**		**112.75**
Year 1		< 0.1 ha	749	166.46	0.22	0.11	0.22	0.00	0.11
Date 1		0.1 - 0.5 ha	999	660.11	0.66	0.26	1.11	0.23	0.85
Year 2	2005	0.5 - 1 ha	250	428.44	1.71	1.33	2.45	0.36	1.11
Date 2	0214	1 - 10 ha	143	903.81	6.32	2.67	24.46	5.04	21.79
		10 - 20 ha	8	248.99	31.12	25.80	43.14	5.49	17.35
		> 20 ha	2	195.26	97.63	90.07	105.19	10.69	15.12
		Total	**2151**	**2603.07**	**1.21**	**0.11**	**105.19**		**105.08**
Year 1		< 0.1 ha	444	98.57	0.22	0.05	0.22	0.01	0.17
Date 1		0.1 - 0.5 ha	534	362.07	0.68	0.28	1.22	0.24	0.94
Year 2	2006	0.5 - 1 ha	175	307.99	1.76	1.33	2.45	0.36	1.11
Date 2	1116	1 - 10 ha	121	774.95	6.40	2.67	23.80	5.24	21.13
		10 - 20 ha	4	113.09	28.27	26.91	31.69	2.30	4.78
		> 20 ha	2	184.81	92.41	90.74	94.07	2.36	3.34
		Total	**1280**	**1841.48**	**1.44**	**0.05**	**94.07**		**94.02**

Johnson County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	731	162.17	0.22	0.05	0.22	0.01	0.17
Date 1		0.1 - 0.5 ha	1075	730.37	0.68	0.35	1.22	0.24	0.88
Year 2	2007	0.5 - 1 ha	348	609.58	1.75	1.33	2.45	0.36	1.11
Date 2	0308	1 - 10 ha	224	1251.87	5.59	2.67	24.69	4.27	22.02
		10 - 20 ha	9	275.40	30.60	26.24	40.70	4.75	14.46
		> 20 ha	2	197.93	98.97	90.96	106.97	11.32	16.01
		Total	**2389**	**3227.32**	**1.35**	**0.05**	**106.97**		**106.92**
Year 1		< 0.1 ha	597	132.64	0.22	0.09	0.22	0.01	0.13
Date 1		0.1 - 0.5 ha	910	619.23	0.68	0.26	1.11	0.24	0.85
Year 2	2008	0.5 - 1 ha	284	496.83	1.75	1.33	2.45	0.36	1.11
Date 2	0207	1 - 10 ha	218	1195.34	5.48	2.67	23.57	4.34	20.91
		10 - 20 ha	8	240.98	30.12	24.91	42.48	5.39	17.57
		> 20 ha	3	286.00	95.33	80.06	105.64	13.49	25.58
		Total	**2020**	**2971.02**	**1.47**	**0.09**	**105.64**		**105.54**
Year 1		< 0.1 ha	773	171.74	0.22	0.09	0.22	0.00	0.13
Date 1		0.1 - 0.5 ha	877	575.35	0.66	0.26	1.22	0.23	0.96
Year 2	2008	0.5 - 1 ha	330	591.68	1.79	1.33	2.45	0.37	1.11
Date 2	0411	1 - 10 ha	234	1273.93	5.44	2.56	24.24	4.14	21.68
		10 - 20 ha	11	330.66	30.06	24.91	42.48	4.76	17.57
		> 20 ha	1	102.97	102.97	102.97	102.97	0.00	0.00
		Total	**2226**	**3046.33**	**1.37**	**0.09**	**102.97**		**102.88**
Year 1		< 0.1 ha	505	112.31	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	598	401.35	0.67	0.44	1.22	0.24	0.78
Year 2	2008	0.5 - 1 ha	215	382.63	1.78	1.33	2.45	0.37	1.11
Date 2	1004	1 - 10 ha	199	1084.23	5.45	2.56	23.80	4.28	21.24
		10 - 20 ha	4	120.73	30.18	25.10	40.25	7.09	15.16
		> 20 ha	2	156.12	78.06	49.59	106.53	40.26	56.93
		Total	**1523**	**2257.37**	**1.48**	**0.22**	**106.53**		**106.30**
Year 1		< 0.1 ha	518	115.01	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	594	406.77	0.68	0.26	1.22	0.25	0.96
Year 2	2008	0.5 - 1 ha	224	392.61	1.75	1.33	2.45	0.40	1.11
Date 2	1020	1 - 10 ha	201	1115.39	5.55	2.67	24.46	4.36	21.79
		10 - 20 ha	5	163.98	32.80	25.58	43.59	8.13	18.01
		> 20 ha	1	105.19	105.19	105.19	105.19	0.00	0.00
		Total	**1543**	**2298.95**	**1.49**	**0.03**	**105.19**		**105.16**
Year 1		< 0.1 ha	310	68.61	0.22	0.05	0.22	0.01	0.17
Date 1		0.1 - 0.5 ha	402	277.10	0.69	0.33	1.22	0.24	0.89
Year 2	2008	0.5 - 1 ha	166	296.56	1.79	1.33	2.45	0.38	1.11
Date 2	1121	1 - 10 ha	151	830.43	5.50	2.67	22.91	4.30	20.24
		10 - 20 ha	3	101.86	33.95	27.13	39.59	6.31	12.45
		> 20 ha	1	101.86	101.86	101.86	101.86	0.00	0.00
		Total	**1033**	**1676.41**	**1.62**	**0.05**	**101.86**		**101.80**

Johnson County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	286	63.60	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	418	290.56	0.70	0.44	1.11	0.23	0.67
Year 2	2008	0.5 - 1 ha	169	314.99	1.86	1.33	2.45	0.40	1.11
Date 2	1207	1 - 10 ha	129	762.46	5.91	2.67	22.77	4.65	20.10
		10 - 20 ha	3	99.19	33.06	27.80	36.47	4.62	8.67
		> 20 ha	1	100.08	100.08	100.08	100.08	0.00	0.00
		Total	**1006**	**1630.88**	**1.62**	**0.22**	**100.08**		**99.86**
Year 1		< 0.1 ha	375	83.40	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	558	380.74	0.68	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	171	314.36	1.84	1.33	2.45	0.39	1.11
Date 2	0108	1 - 10 ha	152	871.62	5.73	2.56	24.24	4.55	21.68
		10 - 20 ha	4	129.32	32.33	26.90	39.81	6.20	12.91
		> 20 ha	1	99.63	99.63	99.63	99.63	0.00	0.00
		Total	**1261**	**1879.06**	**1.49**	**0.22**	**99.63**		**99.41**
Year 1		< 0.1 ha	626	139.09	0.22	0.09	0.22	0.01	0.13
Date 1		0.1 - 0.5 ha	788	531.06	0.67	0.30	1.22	0.24	0.92
Year 2	2009	0.5 - 1 ha	265	463.22	1.75	1.33	2.45	0.36	1.11
Date 2	0329	1 - 10 ha	217	1163.10	5.36	2.56	24.02	4.11	21.46
		10 - 20 ha	6	187.05	31.17	26.46	37.14	3.78	10.67
		> 20 ha	2	163.46	81.73	55.15	108.31	37.58	53.15
		Total	**1904**	**2646.98**	**1.39**	**0.09**	**108.31**		**108.21**
Year 1		< 0.1 ha	629	139.48	0.22	0.02	0.22	0.01	0.21
Date 1		0.1 - 0.5 ha	873	580.15	0.66	0.30	1.22	0.23	0.92
Year 2	2009	0.5 - 1 ha	283	490.24	1.73	1.33	2.45	0.37	1.11
Date 2	0414	1 - 10 ha	228	1210.77	5.31	2.67	23.57	3.87	20.91
		10 - 20 ha	8	249.54	31.19	25.35	37.14	3.74	11.79
		> 20 ha	2	166.13	83.06	56.49	109.64	37.58	53.15
		Total	**2023**	**2836.31**	**1.40**	**0.02**	**109.64**		**109.62**
Year 1		< 0.1 ha	626	139.02	0.22	0.08	0.22	0.01	0.14
Date 1		0.1 - 0.5 ha	848	575.42	0.68	0.25	1.22	0.24	0.97
Year 2	2009	0.5 - 1 ha	289	504.59	1.75	1.33	2.45	0.37	1.11
Date 2	0703	1 - 10 ha	231	1225.39	5.30	2.67	24.69	3.83	22.02
		10 - 20 ha	9	283.85	31.54	25.35	39.14	4.52	13.79
		> 20 ha	1	109.64	109.64	109.64	109.64	0.00	0.00
		Total	**2004**	**2837.90**	**1.42**	**0.08**	**109.64**		**109.56**
Year 1		< 0.1 ha	711	158.03	0.22	0.18	0.22	0.00	0.05
Date 1		0.1 - 0.5 ha	856	564.59	0.66	0.25	1.22	0.23	0.97
Year 2	2009	0.5 - 1 ha	297	507.94	1.71	1.33	2.45	0.36	1.11
Date 2	0804	1 - 10 ha	251	1275.82	5.08	2.56	22.68	3.59	20.13
		10 - 20 ha	10	297.50	29.75	24.91	40.48	4.67	15.57
		> 20 ha	1	112.98	112.98	112.98	112.98	0.00	0.00
		Total	**2126**	**2916.86**	**1.37**	**0.18**	**112.98**		**112.80**

Johnson County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	786	174.80	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	854	584.35	0.68	0.26	1.22	0.24	0.96
Year 2	2009	0.5 - 1 ha	367	642.28	1.75	1.33	2.45	0.35	1.11
Date 2	1023	1 - 10 ha	253	1342.26	5.31	2.56	22.68	3.88	20.13
		10 - 20 ha	13	404.72	31.13	25.13	43.59	5.84	18.46
		> 20 ha	4	327.37	81.84	49.82	114.76	33.09	64.94
		Total	**2277**	**3475.78**	**1.53**	**0.22**	**114.76**		**114.53**
Year 1		< 0.1 ha	706	156.89	0.22	0.15	0.22	0.00	0.07
Date 1		0.1 - 0.5 ha	1015	704.10	0.69	0.26	1.22	0.24	0.96
Year 2	2009	0.5 - 1 ha	366	636.36	1.74	1.33	2.45	0.36	1.11
Date 2	1124	1 - 10 ha	261	1400.98	5.37	2.56	24.46	4.05	21.91
		10 - 20 ha	11	339.23	30.84	25.80	42.92	4.94	17.12
		> 20 ha	2	203.27	101.63	94.74	108.53	9.75	13.79
		Total	**2361**	**3440.83**	**1.46**	**0.15**	**108.53**		**108.38**
Year 1		< 0.1 ha	592	131.47	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	853	586.28	0.69	0.26	1.22	0.24	0.96
Year 2	2009	0.5 - 1 ha	312	545.84	1.75	1.33	2.45	0.37	1.11
Date 2	1210	1 - 10 ha	234	1333.01	5.70	2.56	23.80	4.35	21.24
		10 - 20 ha	7	220.50	31.50	25.91	38.92	4.53	13.01
		> 20 ha	2	191.15	95.57	87.07	104.08	12.03	17.01
		Total	**2000**	**3008.25**	**1.50**	**0.03**	**104.08**		**104.05**
Year 1		< 0.1 ha	341	75.84	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	495	336.72	0.68	0.26	1.11	0.24	0.85
Year 2	2010	0.5 - 1 ha	227	415.21	1.83	1.33	2.45	0.38	1.11
Date 2	0111	1 - 10 ha	150	931.17	6.21	2.67	22.46	4.93	19.79
		10 - 20 ha	7	201.16	28.74	25.80	36.70	3.81	10.90
		> 20 ha	2	191.70	95.85	92.52	99.19	4.72	6.67
		Total	**1222**	**2151.79**	**1.76**	**0.22**	**99.19**		**98.97**
Year 1		< 0.1 ha	794	176.36	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	882	584.21	0.66	0.26	1.22	0.23	0.96
Year 2	2010	0.5 - 1 ha	339	596.07	1.76	1.33	2.45	0.37	1.11
Date 2	0604	1 - 10 ha	289	1527.19	5.28	2.56	24.46	3.91	21.91
		10 - 20 ha	9	265.58	29.51	25.58	37.81	3.69	12.23
		> 20 ha	2	183.48	91.74	78.51	104.97	18.71	26.46
		Total	**2315**	**3332.87**	**1.44**	**0.00**	**104.97**		**104.97**
Year 1		< 0.1 ha	831	184.73	0.22	0.14	0.22	0.00	0.08
Date 1		0.1 - 0.5 ha	1246	842.72	0.68	0.25	1.22	0.24	0.97
Year 2	2010	0.5 - 1 ha	478	833.87	1.74	1.33	2.45	0.36	1.11
Date 2	0620	1 - 10 ha	328	1790.28	5.46	2.56	24.46	4.12	21.91
		10 - 20 ha	10	318.43	31.84	26.02	43.59	4.75	17.57
		> 20 ha	2	192.37	96.19	77.84	114.53	25.95	36.70
		Total	**2895**	**4162.40**	**1.44**	**0.14**	**114.53**		**114.39**

Johnson County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	838	186.21	0.22	0.12	0.22	0.00	0.11
Date 1		0.1 - 0.5 ha	1139	766.20	0.67	0.35	1.22	0.24	0.87
Year 2	2010	0.5 - 1 ha	437	768.32	1.76	1.33	2.45	0.37	1.11
Date 2	0807	1 - 10 ha	339	1814.34	5.35	2.56	24.24	3.95	21.68
		10 - 20 ha	7	224.15	32.02	24.91	44.03	5.89	19.13
		> 20 ha	2	185.92	92.96	69.16	116.76	33.65	47.59
		Total	**2762**	**3945.15**	**1.43**	**0.12**	**116.76**		**116.64**
Year 1		< 0.1 ha	780	173.22	0.22	0.08	0.22	0.01	0.14
Date 1		0.1 - 0.5 ha	973	658.94	0.68	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	392	689.95	1.76	1.33	2.45	0.35	1.11
Date 2	1010	1 - 10 ha	253	1370.11	5.42	2.56	24.69	4.18	22.13
		10 - 20 ha	10	343.39	34.34	26.91	48.59	7.63	21.68
		> 20 ha	2	198.82	99.41	94.96	103.86	6.29	8.90
		Total	**2410**	**3434.44**	**1.43**	**0.08**	**103.86**		**103.78**
Year 1		< 0.1 ha	1136	251.88	0.22	0.01	0.22	0.01	0.21
Date 1		0.1 - 0.5 ha	1207	800.32	0.66	0.26	1.22	0.23	0.96
Year 2	2010	0.5 - 1 ha	420	741.24	1.76	1.33	2.45	0.37	1.11
Date 2	1127	1 - 10 ha	319	1640.23	5.14	2.56	24.24	3.78	21.68
		10 - 20 ha	13	395.14	30.40	24.91	44.92	5.30	20.02
		> 20 ha	1	134.99	134.99	134.99	134.99	0.00	0.00
		Total	**3096**	**3963.80**	**1.28**	**0.01**	**134.99**		**134.99**
Year 1		< 0.1 ha	398	88.23	0.22	0.05	0.22	0.01	0.17
Date 1		0.1 - 0.5 ha	623	433.99	0.70	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	242	422.22	1.74	1.33	2.45	0.37	1.11
Date 2	1213	1 - 10 ha	160	944.08	5.90	2.67	24.02	4.98	21.35
		10 - 20 ha	6	171.16	28.53	24.91	38.70	5.10	13.79
		> 20 ha	2	187.26	93.63	86.29	100.97	10.38	14.68
		Total	**1431**	**2246.94**	**1.57**	**0.05**	**100.97**		**100.91**

Montague County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	1997	< 0.1 ha	917	203.76	0.22	0.13	0.22	0.00	0.10
Date 1	0303	0.1 - 0.5 ha	1635	1143.75	0.70	0.25	1.22	0.25	0.97
Year 2	1997	0.5 - 1 ha	526	903.39	1.72	1.29	2.47	0.34	1.18
Date 2	0328	1 - 10 ha	419	2566.86	6.13	2.47	24.32	4.57	21.85
		10 - 20 ha	20	707.84	35.39	24.82	47.96	7.69	23.15
		> 20 ha	4	454.98	113.74	65.01	218.17	70.94	153.16
Baseline Wet		**Total**	**3521**	**5980.57**	**1.70**	**0.13**	**218.17**		**218.04**
Year 1	1999	< 0.1 ha	217	48.26	0.22	0.22	0.22	0.00	0.00
Date 1	0221	0.1 - 0.5 ha	363	210.55	0.58	0.25	1.20	0.26	0.95
Year 2	1999	0.5 - 1 ha	74	128.91	1.74	1.32	2.45	0.35	1.13
Date 2	0214	1 - 10 ha	118	794.11	6.73	2.51	22.88	4.44	20.37
		10 - 20 ha	6	165.33	27.55	24.91	35.48	4.09	10.57
		> 20 ha	4	787.40	196.85	52.93	518.52	219.34	465.59
Baseline Dry		**Total**	**782**	**2134.54**	**2.73**	**0.22**	**518.52**		**518.30**
Year 1	2003	< 0.1 ha	489	108.73	0.22	0.20	0.22	0.00	0.02
Date 1	1014	0.1 - 0.5 ha	758	467.58	0.62	0.25	1.22	0.26	0.97
Year 2	2003	0.5 - 1 ha	190	316.30	1.66	1.29	2.45	0.31	1.15
Date 2	1023	1 - 10 ha	166	1039.78	6.26	2.49	23.96	4.13	21.46
		10 - 20 ha	9	286.28	31.81	26.91	39.36	4.42	12.46
		> 20 ha	3	263.07	87.69	55.60	151.01	54.84	95.41
		Total	**1615**	**2481.75**	**1.54**	**0.20**	**151.01**		**150.80**
Year 1	2004	< 0.1 ha	1037	230.62	0.22	0.22	0.22	0.00	0.00
Date 1	1016	0.1 - 0.5 ha	1718	1120.19	0.65	0.25	1.22	0.26	0.97
Year 2	2004	0.5 - 1 ha	478	815.93	1.71	1.25	2.46	0.34	1.21
Date 2	0907	1 - 10 ha	365	2295.55	6.29	2.48	24.55	4.65	22.07
		10 - 20 ha	14	496.79	35.49	25.44	46.67	6.65	21.22
		> 20 ha	4	408.20	102.05	52.59	218.84	78.33	166.25
		Total	**3616**	**5367.28**	**1.48**	**0.22**	**218.84**		**218.61**
Year 1	2005	< 0.1 ha	925	205.20	0.22	0.00	0.22	0.01	0.22
Date 1	0221	0.1 - 0.5 ha	1852	1199.30	0.65	0.25	1.22	0.27	0.97
Year 2	2005	0.5 - 1 ha	457	789.06	1.73	1.25	2.47	0.34	1.22
Date 2	0214	1 - 10 ha	341	2067.46	6.06	2.47	24.21	4.29	21.74
		10 - 20 ha	16	566.57	35.41	25.07	48.16	7.15	23.08
		> 20 ha	3	367.62	122.54	70.28	207.94	74.57	137.66
		Total	**3594**	**5195.21**	**1.45**	**0.00**	**207.94**		**207.94**
Year 1	2006	< 0.1 ha	429	95.29	0.22	0.15	0.22	0.00	0.08
Date 1	1123	0.1 - 0.5 ha	649	404.70	0.62	0.25	1.22	0.26	0.97
Year 2	2006	0.5 - 1 ha	124	209.27	1.69	1.26	2.47	0.33	1.21
Date 2	1116	1 - 10 ha	145	830.61	5.73	2.47	20.24	3.46	17.77
		10 - 20 ha	8	244.18	30.52	25.09	43.14	7.68	18.06
		> 20 ha	2	526.76	263.38	162.57	364.19	142.57	201.62
		Total	**1357**	**2310.81**	**1.70**	**0.15**	**364.19**		**364.04**

Montague County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2007	< 0.1 ha	1421	315.73	0.22	0.03	0.22	0.01	0.19
Date 1	0331	0.1 - 0.5 ha	2126	1405.52	0.66	0.25	1.23	0.25	0.97
Year 2	2007	0.5 - 1 ha	636	1109.97	1.75	1.24	2.47	0.34	1.23
Date 2	0308	1 - 10 ha	496	3027.89	6.10	2.47	24.46	4.32	21.99
		10 - 20 ha	33	1068.98	32.39	24.92	47.78	6.40	22.86
		> 20 ha	12	1096.98	91.42	52.07	228.62	57.31	176.55
		Total	**4724**	**8025.06**	**1.70**	**0.03**	**228.62**		**228.59**
Year 1	2008	< 0.1 ha	1060	235.19	0.22	0.06	0.22	0.01	0.16
Date 1	0418	0.1 - 0.5 ha	2199	1445.81	0.66	0.25	1.23	0.27	0.97
Year 2	2008	0.5 - 1 ha	624	1070.28	1.72	1.29	2.45	0.35	1.16
Date 2	0411	1 - 10 ha	502	3001.62	5.98	2.47	24.64	4.61	22.16
		10 - 20 ha	14	516.71	36.91	27.35	48.96	8.27	21.60
		> 20 ha	5	488.22	97.64	52.77	213.94	65.88	161.17
		Total	**4404**	**6757.84**	**1.53**	**0.06**	**213.94**		**213.88**
Year 1	2008	< 0.1 ha	804	178.61	0.22	0.05	0.22	0.01	0.18
Date 1	0723	0.1 - 0.5 ha	954	633.49	0.66	0.38	1.21	0.23	0.83
Year 2	2008	0.5 - 1 ha	254	441.31	1.74	1.33	2.47	0.36	1.13
Date 2	0207	1 - 10 ha	217	1423.47	6.56	2.56	23.80	4.14	21.24
		10 - 20 ha	12	388.61	32.38	26.24	39.59	5.22	13.34
		> 20 ha	2	147.56	73.78	67.50	80.06	8.89	12.57
		Total	**2243**	**3213.05**	**1.43**	**0.05**	**80.06**		**80.02**
Year 1	2008	< 0.1 ha	837	185.98	0.22	0.06	0.22	0.01	0.16
Date 1	1027	0.1 - 0.5 ha	861	577.39	0.67	0.25	1.22	0.24	0.97
Year 2	2008	0.5 - 1 ha	237	411.23	1.74	1.33	2.45	0.37	1.11
Date 2	1004	1 - 10 ha	187	1197.57	6.40	2.67	19.79	3.81	17.12
		10 - 20 ha	9	287.85	31.98	25.80	42.92	5.74	17.12
		> 20 ha	2	132.99	66.50	60.94	72.06	7.86	11.12
		Total	**2133**	**2793.02**	**1.31**	**0.06**	**72.06**		**72.00**
Year 1	2008	< 0.1 ha	731	162.57	0.22	0.22	0.22	0.00	0.00
Date 1	1027	0.1 - 0.5 ha	805	539.54	0.67	0.25	1.22	0.24	0.97
Year 2	2008	0.5 - 1 ha	218	375.80	1.72	1.33	2.45	0.34	1.11
Date 2	1020	1 - 10 ha	189	1201.44	6.36	2.56	19.79	3.79	17.24
		10 - 20 ha	10	317.81	31.78	28.02	42.92	4.72	14.90
		> 20 ha	2	132.32	66.16	60.94	71.39	7.39	10.45
		Total	**1955**	**2729.47**	**1.40**	**0.22**	**71.39**		**71.17**
Year 1	2008	< 0.1 ha	372	82.73	0.22	0.22	0.22	0.00	0.00
Date 1	1027	0.1 - 0.5 ha	495	337.32	0.68	0.38	1.18	0.24	0.80
Year 2	2008	0.5 - 1 ha	150	262.82	1.75	1.33	2.45	0.36	1.11
Date 2	1121	1 - 10 ha	143	916.54	6.41	2.67	23.35	3.99	20.68
		10 - 20 ha	7	208.72	29.82	24.91	38.92	5.07	14.01
		> 20 ha	2	116.31	58.16	55.38	60.94	3.93	5.56
		Total	**1169**	**1924.45**	**1.65**	**0.22**	**60.94**		**60.71**

Montague County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2008	< 0.1 ha	415	91.83	0.22	0.02	0.22	0.01	0.20
Date 1	1214	0.1 - 0.5 ha	474	314.10	0.66	0.25	1.22	0.23	0.97
Year 2	2008	0.5 - 1 ha	119	212.22	1.78	1.33	2.45	0.37	1.11
Date 2	1207	1 - 10 ha	128	856.05	6.69	2.67	24.24	4.44	21.57
		10 - 20 ha	5	159.90	31.98	27.35	38.92	4.43	11.56
		> 20 ha	2	115.65	57.82	57.60	58.05	0.31	0.44
		Total	**1143**	**1749.75**	**1.53**	**0.02**	**58.05**		**58.03**
Year 1	2009	< 0.1 ha	397	87.95	0.22	0.03	0.22	0.01	0.19
Date 1	0115	0.1 - 0.5 ha	410	268.97	0.66	0.25	1.22	0.23	0.97
Year 2	2009	0.5 - 1 ha	106	183.88	1.73	1.33	2.45	0.33	1.11
Date 2	0108	1 - 10 ha	131	827.62	6.32	2.67	24.24	4.15	21.57
		10 - 20 ha	6	184.14	30.69	25.13	37.14	4.61	12.01
		> 20 ha	2	118.31	59.16	56.71	61.60	3.46	4.89
		Total	**1052**	**1670.88**	**1.59**	**0.03**	**61.60**		**61.57**
Year 1	2009	< 0.1 ha	463	102.79	0.22	0.05	0.22	0.01	0.18
Date 1	0421	0.1 - 0.5 ha	814	552.41	0.68	0.25	1.22	0.23	0.97
Year 2	2009	0.5 - 1 ha	234	403.33	1.72	1.33	2.45	0.36	1.11
Date 2	0329	1 - 10 ha	186	1189.29	6.39	2.67	22.02	4.07	19.35
		10 - 20 ha	9	325.10	36.12	27.35	46.00	6.93	18.64
		> 20 ha	2	134.10	67.05	55.38	78.73	16.51	23.35
		Total	**1708**	**2707.03**	**1.58**	**0.05**	**78.73**		**78.68**
Year 1	2009	< 0.1 ha	615	136.31	0.22	0.00	0.22	0.01	0.22
Date 1	0421	0.1 - 0.5 ha	888	617.23	0.70	0.26	1.22	0.24	0.96
Year 2	2009	0.5 - 1 ha	261	453.47	1.74	1.33	2.45	0.38	1.11
Date 2	0414	1 - 10 ha	199	1264.16	6.35	2.67	22.46	3.88	19.79
		10 - 20 ha	10	345.16	34.52	25.24	44.92	7.33	19.68
		> 20 ha	3	189.87	63.29	55.38	78.95	13.56	23.57
		Total	**1976**	**3006.20**	**1.52**	**0.00**	**78.95**		**78.95**
Year 1	2009	< 0.1 ha	1061	234.94	0.22	0.00	0.22	0.01	0.22
Date 1	0608	0.1 - 0.5 ha	1305	866.79	0.66	0.25	1.22	0.24	0.97
Year 2	2009	0.5 - 1 ha	398	690.68	1.74	1.33	2.45	0.37	1.11
Date 2	0703	1 - 10 ha	282	1829.08	6.49	2.53	21.24	4.33	18.71
		10 - 20 ha	14	455.40	32.53	25.35	44.92	7.15	19.57
		> 20 ha	2	159.90	79.95	71.61	88.29	11.79	16.68
		Total	**3062**	**4236.79**	**1.38**	**0.00**	**88.29**		**88.29**
Year 1	2009	< 0.1 ha	1075	238.06	0.22	0.00	0.22	0.01	0.22
Date 1	0710	0.1 - 0.5 ha	1328	883.45	0.67	0.25	1.22	0.24	0.98
Year 2	2009	0.5 - 1 ha	394	682.69	1.73	1.33	2.45	0.36	1.11
Date 2	0703	1 - 10 ha	287	1831.01	6.38	2.56	21.24	4.26	18.68
		10 - 20 ha	14	459.52	32.82	25.80	44.92	6.98	19.13
		> 20 ha	2	157.90	78.95	71.61	86.29	10.38	14.68
		Total	**3100**	**4252.62**	**1.37**	**0.00**	**86.29**		**86.29**

Montague County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2009	< 0.1 ha	1093	241.14	0.22	0.00	0.24	0.02	0.24
Date 1	0710	0.1 - 0.5 ha	1310	880.48	0.67	0.25	1.22	0.24	0.98
Year 2	2009	0.5 - 1 ha	371	647.11	1.74	1.25	2.45	0.36	1.20
Date 2	0804	1 - 10 ha	281	1780.00	6.33	2.56	22.80	4.31	20.24
		10 - 20 ha	12	407.04	33.92	25.80	44.26	6.50	18.46
		> 20 ha	2	156.45	78.23	70.17	86.29	11.40	16.12
		Total	**3069**	**4112.21**	**1.34**	**0.00**	**86.29**		**86.29**
Year 1	2009	< 0.1 ha	1035	230.16	0.22	0.20	0.22	0.00	0.02
Date 1	0928	0.1 - 0.5 ha	1593	1067.40	0.67	0.30	1.23	0.25	0.93
Year 2	2009	0.5 - 1 ha	520	887.84	1.71	1.24	2.47	0.36	1.23
Date 2	1023	1 - 10 ha	391	2321.16	5.94	2.48	23.99	4.25	21.51
		10 - 20 ha	15	515.44	34.36	25.58	44.03	6.87	18.46
		> 20 ha	4	521.62	130.40	52.59	201.27	78.24	148.68
		Total	**3558**	**5543.62**	**1.56**	**0.20**	**201.27**		**201.06**
Year 1	2010	< 0.1 ha	757	167.04	0.22	0.00	0.23	0.02	0.23
Date 1	0323	0.1 - 0.5 ha	993	669.20	0.67	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	303	531.18	1.75	1.31	2.45	0.38	1.14
Date 2	0111	1 - 10 ha	275	1687.56	6.14	2.48	24.24	4.20	21.76
		10 - 20 ha	13	427.58	32.89	26.46	39.59	4.81	13.12
		> 20 ha	3	351.38	117.13	61.38	191.70	67.17	130.32
		Total	**2344**	**3833.94**	**1.64**	**0.00**	**191.70**		**191.70**
Year 1	2010	< 0.1 ha	885	194.65	0.22	0.00	0.24	0.02	0.24
Date 1	0323	0.1 - 0.5 ha	1282	873.53	0.68	0.44	1.22	0.24	0.79
Year 2	2009	0.5 - 1 ha	377	657.62	1.74	1.33	2.45	0.37	1.11
Date 2	1124	1 - 10 ha	312	1952.53	6.26	2.50	23.91	4.29	21.40
		10 - 20 ha	14	470.17	33.58	24.71	42.70	6.32	17.99
		> 20 ha	3	360.36	120.12	70.39	191.68	63.52	121.29
		Total	**2873**	**4508.87**	**1.57**	**0.00**	**191.68**		**191.68**
Year 1	2010	< 0.1 ha	878	192.20	0.22	0.00	0.23	0.03	0.23
Date 1	0323	0.1 - 0.5 ha	1110	734.18	0.66	0.44	1.22	0.23	0.78
Year 2	2009	0.5 - 1 ha	315	542.68	1.72	1.33	2.47	0.38	1.13
Date 2	1210	1 - 10 ha	286	1769.30	6.19	2.48	23.80	4.22	21.32
		10 - 20 ha	12	402.76	33.56	25.35	42.03	5.57	16.68
		> 20 ha	3	354.63	118.21	64.05	192.28	66.40	128.23
		Total	**2604**	**3995.75**	**1.53**	**0.00**	**192.28**		**192.28**
Year 1	2010	< 0.1 ha	1275	282.45	0.22	0.00	0.22	0.01	0.22
Date 1	0408	0.1 - 0.5 ha	1605	1079.85	0.67	0.25	1.22	0.24	0.97
Year 2	2010	0.5 - 1 ha	466	818.39	1.76	1.33	2.47	0.38	1.13
Date 2	0620	1 - 10 ha	376	2427.80	6.46	2.53	24.24	4.61	21.71
		10 - 20 ha	16	543.31	33.96	24.91	47.15	7.09	22.24
		> 20 ha	3	227.87	75.96	61.30	93.85	16.51	32.55
		Total	**3741**	**5379.68**	**1.44**	**0.00**	**93.85**		**93.85**

Montague County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2010	< 0.1 ha	1278	282.69	0.22	0.00	0.22	0.01	0.22
Date 1	0627	0.1 - 0.5 ha	1706	1148.53	0.67	0.44	1.22	0.23	0.78
Year 2	2010	0.5 - 1 ha	504	885.55	1.76	1.33	2.47	0.37	1.13
Date 2	0620	1 - 10 ha	383	2454.44	6.41	2.53	24.24	4.54	21.71
		10 - 20 ha	16	550.43	34.40	24.91	47.15	7.12	22.24
		> 20 ha	3	231.40	77.13	67.05	91.63	12.87	24.57
		Total	**3890**	**5553.05**	**1.43**	**0.00**	**91.63**		**91.63**
Year 1	2010	< 0.1 ha	1339	296.48	0.22	0.02	0.22	0.01	0.20
Date 1	0627	0.1 - 0.5 ha	1927	1305.33	0.68	0.32	1.22	0.23	0.90
Year 2	2010	0.5 - 1 ha	589	1022.01	1.74	1.27	2.45	0.36	1.17
Date 2	0807	1 - 10 ha	424	2646.34	6.24	2.56	24.69	4.44	22.13
		10 - 20 ha	12	435.56	36.30	28.69	46.48	6.64	17.79
		> 20 ha	3	232.72	77.57	66.59	91.63	12.80	25.04
		Total	**4294**	**5938.43**	**1.38**	**0.02**	**91.63**		**91.61**
Year 1	2010	< 0.1 ha	982	216.91	0.22	0.00	0.22	0.02	0.22
Date 1	1001	0.1 - 0.5 ha	1167	789.91	0.68	0.32	1.22	0.23	0.90
Year 2	2010	0.5 - 1 ha	339	595.22	1.76	1.33	2.45	0.37	1.11
Date 2	1010	1 - 10 ha	289	1874.05	6.48	2.56	22.02	4.09	19.46
		10 - 20 ha	15	472.40	31.49	25.24	43.14	6.18	17.90
		> 20 ha	2	148.23	74.11	73.61	74.61	0.71	1.00
		Total	**2794**	**4096.72**	**1.47**	**0.00**	**74.61**		**74.61**
Year 1	2010	< 0.1 ha	1039	231.07	0.22	0.22	0.22	0.00	0.00
Date 1	1118	0.1 - 0.5 ha	1458	964.99	0.66	0.41	1.22	0.23	0.81
Year 2	2010	0.5 - 1 ha	404	697.53	1.73	1.33	2.45	0.35	1.11
Date 2	1127	1 - 10 ha	302	2037.07	6.75	2.67	24.24	4.54	21.57
		10 - 20 ha	12	421.44	35.12	26.46	45.81	7.10	19.35
		> 20 ha	2	261.09	130.55	72.95	188.15	81.46	115.20
		Total	**3217**	**4613.18**	**1.43**	**0.22**	**188.15**		**187.92**
Year 1	2011	< 0.1 ha	526	112.34	0.21	0.00	0.22	0.04	0.22
Date 1	0105	0.1 - 0.5 ha	553	359.59	0.65	0.30	1.22	0.23	0.93
Year 2	2010	0.5 - 1 ha	155	272.15	1.76	1.32	2.45	0.35	1.12
Date 2	1213	1 - 10 ha	188	1280.13	6.81	2.67	24.69	4.71	22.02
		10 - 20 ha	7	231.24	33.03	26.46	38.47	4.05	12.01
		> 20 ha	2	129.66	64.83	61.16	68.50	5.19	7.34
		Total	**1431**	**2385.10**	**1.67**	**0.00**	**68.50**		**68.50**

Palo Pinto County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	1997	< 0.1 ha	1002	222.45	0.22	0.08	0.22	0.01	0.14
Date 1	0303	0.1 - 0.5 ha	1760	1218.79	0.69	0.25	1.22	0.25	0.97
Year 2	1997	0.5 - 1 ha	572	981.18	1.72	1.33	2.45	0.34	1.11
Date 2	0328	1 - 10 ha	354	2076.72	5.87	2.49	24.69	4.61	22.20
		10 - 20 ha	10	314.59	31.46	25.58	47.77	7.23	22.20
		> 20 ha	5	623.04	124.61	75.84	182.81	42.40	106.97
Baseline Wet		**Total**	**3703**	**5436.77**	**1.47**	**0.08**	**182.81**		**182.73**
Year 1	1999	< 0.1 ha	409	90.88	0.22	0.13	0.23	0.00	0.10
Date 1	0221	0.1 - 0.5 ha	559	367.59	0.66	0.25	1.19	0.24	0.93
Year 2	1999	0.5 - 1 ha	128	220.66	1.72	1.31	2.45	0.38	1.14
Date 2	0214	1 - 10 ha	111	818.50	7.37	2.49	23.76	5.35	21.27
		10 - 20 ha	4	370.21	92.55	60.27	126.91	27.56	66.64
Baseline Dry		**Total**	**1211**	**1867.84**	**1.54**	**0.13**	**126.91**		**126.78**
Year 1	2003	< 0.1 ha	707	157.23	0.22	0.22	0.22	0.00	0.00
Date 1	1014	0.1 - 0.5 ha	771	496.69	0.64	0.25	1.22	0.25	0.97
Year 2	2003	0.5 - 1 ha	138	239.32	1.73	1.26	2.45	0.35	1.19
Date 2	1023	1 - 10 ha	117	784.69	6.71	2.49	22.68	4.90	20.20
		10 - 20 ha	3	92.52	30.84	25.83	36.00	5.09	10.17
		> 20 ha	5	450.59	90.12	58.38	124.12	29.72	65.74
		Total	**1741**	**2221.04**	**1.28**	**0.22**	**124.12**		**123.90**
Year 1	2004	< 0.1 ha	1047	232.67	0.22	0.12	0.22	0.00	0.10
Date 1	1016	0.1 - 0.5 ha	1195	769.84	0.64	0.25	1.22	0.24	0.97
Year 2	2004	0.5 - 1 ha	246	424.72	1.73	1.31	2.45	0.35	1.14
Date 2	0907	1 - 10 ha	173	1126.88	6.51	2.47	23.80	5.06	21.32
		10 - 20 ha	4	141.34	35.33	26.91	42.26	6.87	15.35
		> 20 ha	5	546.01	109.20	67.16	129.02	25.36	61.85
		Total	**2670**	**3241.46**	**1.21**	**0.12**	**129.02**		**128.89**
Year 1	2005	< 0.1 ha	836	185.75	0.22	0.14	0.22	0.00	0.09
Date 1	0221	0.1 - 0.5 ha	1331	911.85	0.69	0.25	1.22	0.25	0.97
Year 2	2005	0.5 - 1 ha	357	609.57	1.71	1.33	2.46	0.35	1.14
Date 2	0214	1 - 10 ha	232	1411.57	6.08	2.47	24.46	4.42	21.99
		10 - 20 ha	8	233.00	29.13	24.79	37.58	4.93	12.80
		> 20 ha	6	603.92	100.65	51.15	130.89	33.91	79.74
		Total	**2770**	**3955.67**	**1.43**	**0.14**	**130.89**		**130.75**
Year 1	2006	< 0.1 ha	575	127.88	0.22	0.22	0.22	0.00	0.00
Date 1	1123	0.1 - 0.5 ha	552	353.72	0.64	0.25	1.21	0.25	0.96
Year 2	2006	0.5 - 1 ha	117	200.00	1.71	1.26	2.45	0.35	1.19
Date 2	1116	1 - 10 ha	121	752.60	6.22	2.54	22.24	4.76	19.70
		10 - 20 ha	2	60.49	30.25	27.13	33.36	4.40	6.23
		> 20 ha	5	418.43	83.69	57.60	108.86	22.93	51.26
		Total	**1372**	**1913.13**	**1.39**	**0.22**	**108.86**		**108.63**

Palo Pinto County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2007	< 0.1 ha	1404	311.53	0.22	0.05	0.22	0.01	0.17
Date 1	0331	0.1 - 0.5 ha	2080	1391.68	0.67	0.25	1.23	0.23	0.97
Year 2	2007	0.5 - 1 ha	640	1111.22	1.74	1.33	2.46	0.36	1.13
Date 2	0308	1 - 10 ha	394	2292.91	5.82	2.47	24.35	4.19	21.88
		10 - 20 ha	15	475.48	31.70	26.46	43.14	4.85	16.68
		> 20 ha	10	926.81	92.68	49.82	134.85	32.79	85.03
		Total	**4543**	**6509.63**	**1.43**	**0.05**	**134.85**		**134.80**
Year 1	2008	< 0.1 ha	1135	251.96	0.22	0.10	0.22	0.01	0.12
Date 1	0418	0.1 - 0.5 ha	1826	1231.04	0.67	0.25	1.22	0.26	0.97
Year 2	2008	0.5 - 1 ha	488	846.32	1.73	1.33	2.46	0.36	1.13
Date 2	0411	1 - 10 ha	312	1810.40	5.80	2.49	24.46	4.20	21.98
		10 - 20 ha	12	411.33	34.28	25.13	49.15	7.32	24.02
		> 20 ha	5	622.20	124.44	102.30	147.00	18.04	44.70
		Total	**3778**	**5173.25**	**1.37**	**0.10**	**147.00**		**146.91**
Year 1	2008	< 0.1 ha	661	146.94	0.22	0.16	0.22	0.00	0.06
Date 1	1027	0.1 - 0.5 ha	766	503.15	0.66	0.32	1.22	0.23	0.91
Year 2		0.5 - 1 ha	173	299.11	1.73	1.33	2.45	0.37	1.11
Date 2		1 - 10 ha	149	1024.79	6.88	2.67	24.21	5.39	21.54
		10 - 20 ha	6	184.88	30.81	24.91	39.25	5.55	14.34
		> 20 ha	5	509.06	101.81	60.49	124.10	25.30	63.60
		Total	**1760**	**2667.95**	**1.52**	**0.16**	**124.10**		**123.93**
Year 1	2008	< 0.1 ha	453	100.65	0.22	0.13	0.22	0.00	0.09
Date 1	1214	0.1 - 0.5 ha	526	339.02	0.64	0.32	1.11	0.23	0.80
Year 2		0.5 - 1 ha	145	259.38	1.79	1.33	2.45	0.37	1.11
Date 2		1 - 10 ha	135	958.50	7.10	2.59	24.24	5.59	21.65
		10 - 20 ha	4	130.99	32.75	25.13	43.14	7.54	18.01
		> 20 ha	5	485.71	97.14	57.38	118.54	25.33	61.16
		Total	**1268**	**2274.25**	**1.79**	**0.13**	**118.54**		**118.41**
Year 1	2009	< 0.1 ha	404	89.69	0.22	0.13	0.22	0.01	0.09
Date 1	0115	0.1 - 0.5 ha	470	310.34	0.66	0.32	1.22	0.24	0.91
Year 2		0.5 - 1 ha	126	219.40	1.74	1.33	2.45	0.39	1.11
Date 2		1 - 10 ha	126	930.01	7.38	2.56	24.46	5.63	21.91
		10 - 20 ha	3	103.75	34.58	28.24	41.59	6.70	13.34
		> 20 ha	5	479.93	95.99	58.05	121.21	24.10	63.16
		Total	**1134**	**2133.12**	**1.88**	**0.13**	**121.21**		**121.08**
Year 1	2009	< 0.1 ha	477	105.71	0.22	0.04	0.22	0.01	0.18
Date 1	0131	0.1 - 0.5 ha	604	404.52	0.67	0.32	1.22	0.23	0.91
Year 2		0.5 - 1 ha	146	259.31	1.78	1.33	2.45	0.39	1.11
Date 2		1 - 10 ha	136	996.91	7.33	2.55	23.91	5.68	21.36
		10 - 20 ha	4	125.79	31.45	26.69	35.36	4.53	8.67
		> 20 ha	5	492.60	98.52	59.82	124.54	24.55	64.72
		Total	**1372**	**2384.84**	**1.74**	**0.04**	**124.54**		**124.50**

Palo Pinto County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2009	< 0.1 ha	644	143.07	0.22	0.13	0.22	0.00	0.09
Date 1	0421	0.1 - 0.5 ha	738	487.97	0.66	0.44	1.22	0.23	0.78
Year 2		0.5 - 1 ha	187	322.18	1.72	1.33	2.45	0.36	1.11
Date 2		1 - 10 ha	132	966.03	7.32	2.67	24.02	5.45	21.35
		10 - 20 ha	4	135.88	33.97	30.47	38.03	3.21	7.56
		> 20 ha	5	498.28	99.66	64.83	119.87	23.04	55.04
		Total	**1710**	**2553.40**	**1.49**	**0.13**	**119.87**		**119.74**
Year 1	2009	< 0.1 ha	881	195.55	0.22	0.02	0.22	0.01	0.20
Date 1	0608	0.1 - 0.5 ha	936	610.06	0.65	0.32	1.23	0.23	0.91
Year 2		0.5 - 1 ha	217	368.18	1.70	1.33	2.45	0.36	1.11
Date 2		1 - 10 ha	145	1005.59	6.94	2.56	23.80	5.16	21.24
		10 - 20 ha	6	177.25	29.54	25.35	35.81	4.66	10.45
		> 20 ha	5	501.28	100.26	68.05	130.55	23.91	62.49
		Total	**2190**	**2857.90**	**1.30**	**0.02**	**130.55**		**130.53**
Year 1	2009	< 0.1 ha	881	195.80	0.22	0.15	0.22	0.00	0.07
Date 1	0710	0.1 - 0.5 ha	968	631.32	0.65	0.32	1.23	0.23	0.90
Year 2		0.5 - 1 ha	225	380.13	1.69	1.33	2.45	0.35	1.11
Date 2		1 - 10 ha	151	1038.91	6.88	2.56	24.69	5.07	22.13
		10 - 20 ha	6	202.40	33.73	25.80	42.70	7.35	16.90
		> 20 ha	5	492.05	98.41	67.61	129.66	23.49	62.05
		Total	**2236**	**2940.61**	**1.32**	**0.15**	**129.66**		**129.51**
Year 1	2009	< 0.1 ha	867	192.32	0.22	0.04	0.24	0.01	0.21
Date 1	0928	0.1 - 0.5 ha	1147	752.35	0.66	0.37	1.23	0.24	0.86
Year 2	2009	0.5 - 1 ha	275	473.21	1.72	1.25	2.45	0.35	1.20
Date 2	1023	1 - 10 ha	212	1338.18	6.31	2.49	24.69	4.74	22.20
		10 - 20 ha	7	245.98	35.14	25.86	47.81	8.59	21.96
		> 20 ha	5	472.94	94.59	50.23	124.92	29.61	74.70
		Total	**2513**	**3474.98**	**1.38**	**0.04**	**124.92**		**124.89**
Year 1	2010	< 0.1 ha	1169	259.42	0.22	0.02	0.24	0.01	0.22
Date 1	0323	0.1 - 0.5 ha	1978	1377.36	0.70	0.26	1.22	0.24	0.96
Year 2		0.5 - 1 ha	641	1133.93	1.77	1.33	2.45	0.38	1.11
Date 2		1 - 10 ha	467	2699.45	5.78	2.56	24.69	4.12	22.13
		10 - 20 ha	15	496.03	33.07	25.35	41.81	5.39	16.46
		> 20 ha	7	706.66	100.95	50.15	154.79	41.96	104.64
		Total	**4277**	**6672.85**	**1.56**	**0.02**	**154.79**		**154.77**
Year 1	2010	< 0.1 ha	1146	254.07	0.22	0.01	0.22	0.01	0.22
Date 1	0408	0.1 - 0.5 ha	1473	996.50	0.68	0.32	1.22	0.23	0.91
Year 2		0.5 - 1 ha	400	682.37	1.71	1.33	2.45	0.34	1.11
Date 2		1 - 10 ha	290	1750.27	6.04	2.56	24.46	4.53	21.91
		10 - 20 ha	12	412.84	34.40	26.91	47.37	7.13	20.46
		> 20 ha	5	559.77	111.95	70.94	134.99	26.02	64.05
		Total	**3326**	**4655.81**	**1.40**	**0.01**	**134.99**		**134.99**

Palo Pinto County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2010	< 0.1 ha	1100	244.02	0.22	0.00	0.22	0.01	0.22
Date 1	1001	0.1 - 0.5 ha	1414	939.04	0.66	0.28	1.22	0.23	0.94
Year 2		0.5 - 1 ha	311	540.14	1.74	1.33	2.45	0.38	1.11
Date 2		1 - 10 ha	217	1372.77	6.33	2.67	24.46	4.76	21.79
		10 - 20 ha	7	250.60	35.80	26.02	48.93	7.49	22.91
		> 20 ha	5	538.64	107.73	66.27	134.55	26.33	68.28
		Total	**3054**	**3885.21**	**1.27**	**0.00**	**134.55**		**134.55**
Year 1	2010	< 0.1 ha	668	148.29	0.22	0.06	0.22	0.01	0.16
Date 1	1118	0.1 - 0.5 ha	786	516.52	0.66	0.36	1.22	0.23	0.87
Year 2	2010	0.5 - 1 ha	188	334.03	1.78	1.25	2.45	0.38	1.20
Date 2	1127	1 - 10 ha	164	1026.75	6.26	2.56	22.24	4.30	19.68
		10 - 20 ha	6	189.37	31.56	26.46	38.92	4.40	12.45
		> 20 ha	6	563.96	93.99	58.46	126.54	29.47	68.09
		Total	**1818**	**2778.91**	**1.53**	**0.06**	**126.54**		**126.48**
Year 1	2011	< 0.1 ha	523	116.09	0.22	0.13	0.22	0.01	0.09
Date 1	0105	0.1 - 0.5 ha	644	430.10	0.67	0.32	1.22	0.24	0.91
Year 2		0.5 - 1 ha	145	253.62	1.75	1.33	2.45	0.36	1.11
Date 2		1 - 10 ha	142	971.91	6.84	2.56	22.24	4.97	19.68
		10 - 20 ha	6	189.53	31.59	25.13	37.14	5.39	12.01
		> 20 ha	5	483.71	96.74	56.27	116.09	24.43	59.82
		Total	**1465**	**2444.95**	**1.67**	**0.13**	**116.09**		**115.96**

Parker County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	1997	< 0.1 ha	948	210.30	0.22	0.05	0.22	0.01	0.17
Date 1	0303	0.1 - 0.5 ha	1499	1006.54	0.67	0.25	1.22	0.26	0.97
Year 2	1997	0.5 - 1 ha	403	694.79	1.72	1.33	2.47	0.35	1.13
Date 2	0328	1 - 10 ha	304	1825.09	6.00	2.47	23.24	4.29	20.77
		10 - 20 ha	11	419.87	38.17	29.47	48.69	5.86	19.22
		> 20 ha	8	919.70	114.96	50.11	399.64	117.63	349.53
Baseline Wet		**Total**	**3173**	**5076.29**	**1.60**	**0.05**	**399.64**		**399.59**
Year 1	1999	< 0.1 ha	430	95.26	0.22	0.06	0.22	0.01	0.16
Date 1	0221	0.1 - 0.5 ha	680	434.71	0.64	0.25	1.22	0.25	0.97
Year 2	1999	0.5 - 1 ha	153	269.43	1.76	1.26	2.47	0.36	1.21
Date 2	0214	1 - 10 ha	146	966.56	6.62	2.47	24.02	4.56	21.55
		10 - 20 ha	9	293.22	32.58	26.13	48.89	7.77	22.76
		> 20 ha	5	530.84	106.17	57.69	167.69	45.00	109.99
Baseline Dry		**Total**	**1423**	**2590.01**	**1.82**	**0.06**	**167.69**		**167.63**
Year 1	2003	< 0.1 ha	617	136.67	0.22	0.03	0.22	0.01	0.20
Date 1	1014	0.1 - 0.5 ha	881	542.72	0.62	0.25	1.22	0.26	0.97
Year 2	2003	0.5 - 1 ha	157	270.73	1.72	1.33	2.46	0.34	1.13
Date 2	1023	1 - 10 ha	154	958.22	6.22	2.48	23.44	4.25	20.96
		10 - 20 ha	8	244.36	30.54	24.85	44.37	7.04	19.51
		> 20 ha	5	336.31	67.26	54.27	98.08	17.83	43.80
		Total	**1822**	**2489.01**	**1.37**	**0.03**	**98.08**		**98.05**
Year 1	2004	< 0.1 ha	904	200.46	0.22	0.05	0.22	0.01	0.17
Date 1	1016	0.1 - 0.5 ha	1215	757.14	0.62	0.25	1.22	0.25	0.97
Year 2	2004	0.5 - 1 ha	249	429.35	1.72	1.30	2.45	0.32	1.14
Date 2	0907	1 - 10 ha	207	1291.94	6.24	2.48	24.63	4.16	22.15
		10 - 20 ha	12	392.63	32.72	25.45	44.92	5.80	19.47
		> 20 ha	3	262.40	87.47	60.80	127.43	35.25	66.63
		Total	**2590**	**3333.92**	**1.29**	**0.05**	**127.43**		**127.38**
Year 1	2005	< 0.1 ha	719	159.08	0.22	0.00	0.22	0.01	0.22
Date 1	0221	0.1 - 0.5 ha	1367	914.14	0.67	0.25	1.24	0.26	0.98
Year 2	2005	0.5 - 1 ha	354	603.66	1.71	1.33	2.45	0.34	1.12
Date 2	0214	1 - 10 ha	262	1510.05	5.76	2.49	22.86	3.85	20.37
		10 - 20 ha	13	441.89	33.99	27.04	45.37	5.83	18.33
		> 20 ha	5	811.66	162.33	66.94	325.92	103.24	258.98
		Total	**2720**	**4440.47**	**1.63**	**0.00**	**325.92**		**325.92**
Year 1	2006	< 0.1 ha	394	87.24	0.22	0.05	0.24	0.01	0.19
Date 1	1123	0.1 - 0.5 ha	617	402.90	0.65	0.25	1.22	0.26	0.97
Year 2	2006	0.5 - 1 ha	177	309.66	1.75	1.33	2.45	0.34	1.11
Date 2	1116	1 - 10 ha	142	927.12	6.53	2.55	21.82	4.68	19.26
		10 - 20 ha	5	153.64	30.73	25.13	38.18	4.82	13.05
		> 20 ha	3	271.74	90.58	59.16	131.85	37.34	72.70
		Total	**1338**	**2152.29**	**1.61**	**0.05**	**131.85**		**131.80**

Parker County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2007	< 0.1 ha	1019	225.73	0.22	0.03	0.22	0.01	0.20
Date 1	0331	0.1 - 0.5 ha	1571	1051.81	0.67	0.25	1.22	0.24	0.97
Year 2	2007	0.5 - 1 ha	435	740.78	1.70	1.26	2.46	0.34	1.20
Date 2	0308	1 - 10 ha	331	1802.03	5.44	2.48	22.36	3.70	19.88
		10 - 20 ha	15	495.85	33.06	25.10	44.20	6.27	19.09
		> 20 ha	5	654.60	130.92	66.50	248.50	78.80	182.00
		Total	**3376**	**4970.80**	**1.47**	**0.03**	**248.50**		**248.47**
Year 1		< 0.1 ha	549	121.16	0.22	0.01	0.22	0.02	0.21
Date 1		0.1 - 0.5 ha	817	545.03	0.67	0.28	1.22	0.23	0.95
Year 2	2008	0.5 - 1 ha	247	432.97	1.75	1.33	2.45	0.37	1.11
Date 2	0207	1 - 10 ha	205	1328.80	6.48	2.56	24.69	4.52	22.13
		10 - 20 ha	11	368.51	33.50	26.02	48.48	6.38	22.46
		> 20 ha	3	908.52	302.84	75.28	708.58	352.25	633.30
		Total	**1832**	**3705.00**	**2.02**	**0.01**	**708.58**		**708.57**
Year 1	2008	< 0.1 ha	1062	235.26	0.22	0.01	0.22	0.01	0.22
Date 1	0418	0.1 - 0.5 ha	1823	1180.75	0.65	0.25	1.22	0.27	0.97
Year 2	2008	0.5 - 1 ha	499	860.25	1.72	1.31	2.46	0.33	1.15
Date 2	0411	1 - 10 ha	381	2115.12	5.55	2.49	23.80	4.08	21.31
		10 - 20 ha	13	473.60	36.43	25.24	48.03	6.87	22.79
		> 20 ha	5	2672.69	534.54	54.39	2292.45	983.16	2238.06
		Total	**3783**	**7537.67**	**1.99**	**0.01**	**2292.45**		**2292.44**
Year 1		< 0.1 ha	564	125.32	0.22	0.14	0.22	0.00	0.08
Date 1		0.1 - 0.5 ha	636	415.77	0.65	0.33	1.22	0.23	0.89
Year 2	2008	0.5 - 1 ha	192	333.12	1.74	1.28	2.45	0.33	1.16
Date 2	1004	1 - 10 ha	164	1079.10	6.58	2.56	24.46	4.67	21.91
		10 - 20 ha	7	213.28	30.47	26.02	40.59	4.94	14.57
		> 20 ha	4	895.92	223.98	71.83	667.85	295.94	596.02
		Total	**1567**	**3062.51**	**1.95**	**0.14**	**667.85**		**667.71**
Year 1		< 0.1 ha	511	113.46	0.22	0.06	0.22	0.01	0.16
Date 1		0.1 - 0.5 ha	606	397.53	0.66	0.31	1.22	0.23	0.91
Year 2	2008	0.5 - 1 ha	201	351.50	1.75	1.33	2.45	0.36	1.11
Date 2	1020	1 - 10 ha	166	1126.67	6.79	2.56	24.46	4.93	21.91
		10 - 20 ha	7	215.28	30.75	25.80	41.14	5.32	15.35
		> 20 ha	3	2208.49	736.16	70.61	2046.92	1135.20	1976.31
		Total	**1494**	**4412.92**	**2.95**	**0.06**	**2046.92**		**2046.86**
Year 1		< 0.1 ha	313	69.35	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	416	284.00	0.68	0.44	1.11	0.24	0.67
Year 2	2008	0.5 - 1 ha	151	260.87	1.73	1.33	2.45	0.34	1.11
Date 2	1121	1 - 10 ha	136	890.26	6.55	2.67	23.13	4.50	20.46
		10 - 20 ha	7	205.16	29.31	26.02	37.25	4.17	11.23
		> 20 ha	5	946.62	189.32	64.38	373.62	128.90	309.24
		Total	**1028**	**2656.25**	**2.58**	**0.03**	**373.62**		**373.59**

Parker County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	325	72.10	0.22	0.06	0.22	0.01	0.16
Date 1		0.1 - 0.5 ha	404	269.63	0.67	0.31	1.11	0.23	0.80
Year 2	2008	0.5 - 1 ha	164	278.88	1.70	1.33	2.45	0.34	1.11
Date 2	1207	1 - 10 ha	132	919.72	6.97	2.67	24.35	4.95	21.68
		10 - 20 ha	6	184.03	30.67	26.46	39.92	5.11	13.45
		> 20 ha	4	753.22	188.30	57.34	534.97	231.79	477.63
		Total	**1035**	**2477.58**	**2.39**	**0.06**	**534.97**		**534.91**
Year 1		< 0.1 ha	327	72.43	0.22	0.06	0.22	0.01	0.16
Date 1		0.1 - 0.5 ha	479	323.56	0.68	0.44	1.11	0.24	0.67
Year 2	2009	0.5 - 1 ha	153	267.76	1.75	1.33	2.45	0.35	1.11
Date 2	0108	1 - 10 ha	146	1013.58	6.94	2.56	23.57	5.03	21.02
		10 - 20 ha	5	162.46	32.49	29.13	41.59	5.19	12.45
		> 20 ha	3	780.13	260.04	65.50	613.36	306.51	547.87
		Total	**1113**	**2619.92**	**2.35**	**0.06**	**613.36**		**613.30**
Year 1		< 0.1 ha	473	104.77	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	644	433.75	0.67	0.35	1.11	0.24	0.76
Year 2	2009	0.5 - 1 ha	245	422.63	1.73	1.33	2.45	0.36	1.11
Date 2	0329	1 - 10 ha	182	1197.78	6.58	2.56	24.57	4.76	22.02
		10 - 20 ha	7	222.51	31.79	25.58	46.26	7.12	20.68
		> 20 ha	3	841.76	280.59	76.28	663.63	331.97	587.34
		Total	**1554**	**3223.21**	**2.07**	**0.03**	**663.63**		**663.60**
Year 1		< 0.1 ha	558	123.90	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	695	465.88	0.67	0.27	1.22	0.23	0.96
Year 2	2009	0.5 - 1 ha	242	431.75	1.78	1.33	2.45	0.38	1.11
Date 2	0414	1 - 10 ha	200	1315.43	6.58	2.67	24.24	4.74	21.57
		10 - 20 ha	6	203.27	33.88	29.80	45.59	6.02	15.79
		> 20 ha	3	856.97	285.66	75.06	673.75	336.50	598.69
		Total	**1704**	**3397.21**	**1.99**	**0.03**	**673.75**		**673.71**
Year 1		< 0.1 ha	729	161.69	0.22	0.06	0.22	0.01	0.16
Date 1		0.1 - 0.5 ha	870	576.75	0.66	0.27	1.22	0.23	0.96
Year 2	2009	0.5 - 1 ha	247	427.11	1.73	1.33	2.45	0.34	1.11
Date 2	0703	1 - 10 ha	190	1282.37	6.75	2.56	24.13	4.81	21.57
		10 - 20 ha	7	219.50	31.36	25.24	45.48	6.57	20.24
		> 20 ha	3	747.33	249.11	77.06	567.00	275.61	489.94
		Total	**2046**	**3414.76**	**1.67**	**0.06**	**567.00**		**566.93**
Year 1		< 0.1 ha	981	217.34	0.22	0.04	0.24	0.01	0.20
Date 1		0.1 - 0.5 ha	1146	770.33	0.67	0.28	1.22	0.24	0.95
Year 2	2009	0.5 - 1 ha	335	589.46	1.76	1.33	2.45	0.37	1.11
Date 2	0804	1 - 10 ha	209	1307.62	6.26	2.56	24.46	4.76	21.91
		10 - 20 ha	5	176.70	35.34	30.91	44.59	5.66	13.68
		> 20 ha	5	1042.48	208.50	70.28	570.00	210.76	499.72
		Total	**2681**	**4103.93**	**1.53**	**0.04**	**570.00**		**569.95**

Parker County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2009	< 0.1 ha	1001	221.92	0.22	0.03	0.24	0.01	0.21
Date 1	0928	0.1 - 0.5 ha	1408	926.87	0.66	0.37	1.23	0.24	0.86
Year 2	2009	0.5 - 1 ha	433	754.45	1.74	1.24	2.47	0.36	1.23
Date 2	1023	1 - 10 ha	320	1964.50	6.14	2.48	24.20	4.53	21.72
		10 - 20 ha	10	339.42	33.94	25.34	47.87	7.81	22.53
		> 20 ha	4	720.19	180.05	75.61	453.13	182.32	377.52
		Total	**3176**	**4927.34**	**1.55**	**0.03**	**453.13**		**453.10**
Year 1		< 0.1 ha	778	172.79	0.22	0.07	0.22	0.01	0.15
Date 1		0.1 - 0.5 ha	999	658.65	0.66	0.27	1.22	0.23	0.95
Year 2	2009	0.5 - 1 ha	314	543.68	1.73	1.33	2.45	0.38	1.11
Date 2	1124	1 - 10 ha	219	1416.98	6.47	2.56	23.13	4.51	20.57
		10 - 20 ha	10	340.93	34.09	25.80	46.70	7.30	20.91
		> 20 ha	2	270.10	135.05	96.07	174.02	55.12	77.95
		Total	**2322**	**3403.12**	**1.47**	**0.07**	**174.02**		**173.95**
Year 1		< 0.1 ha	603	133.60	0.22	0.04	0.22	0.01	0.18
Date 1		0.1 - 0.5 ha	753	499.36	0.66	0.28	1.22	0.24	0.95
Year 2	2009	0.5 - 1 ha	273	466.53	1.71	1.28	2.45	0.35	1.16
Date 2	1210	1 - 10 ha	201	1357.36	6.75	2.56	24.69	4.84	22.13
		10 - 20 ha	8	282.89	35.36	28.24	45.92	6.13	17.68
		> 20 ha	3	644.92	214.97	72.72	472.56	223.48	399.84
		Total	**1841**	**3384.66**	**1.84**	**0.04**	**472.56**		**472.52**
Year 1		< 0.1 ha	416	92.02	0.22	0.05	0.22	0.01	0.18
Date 1		0.1 - 0.5 ha	529	361.53	0.68	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	173	291.20	1.68	1.33	2.45	0.35	1.11
Date 2	0111	1 - 10 ha	166	1081.30	6.51	2.56	24.02	4.57	21.46
		10 - 20 ha	7	226.84	32.41	27.58	38.47	4.39	10.90
		> 20 ha	3	1489.04	496.35	66.05	1326.70	719.26	1260.65
		Total	**1294**	**3541.94**	**2.74**	**0.05**	**1326.70**		**1326.65**
Year 1		< 0.1 ha	1056	234.04	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	1320	894.29	0.68	0.41	1.22	0.24	0.81
Year 2	2010	0.5 - 1 ha	395	692.94	1.75	1.33	2.45	0.37	1.11
Date 2	0620	1 - 10 ha	298	1869.21	6.27	2.56	24.46	4.60	21.91
		10 - 20 ha	13	448.83	34.53	26.91	44.92	5.75	18.01
		> 20 ha	5	968.20	193.64	49.59	662.18	263.54	612.59
		Total	**3087**	**5107.51**	**1.65**	**0.03**	**662.18**		**662.15**
Year 1		< 0.1 ha	1120	248.51	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	1331	890.57	0.67	0.27	1.22	0.23	0.96
Year 2	2010	0.5 - 1 ha	400	697.13	1.74	1.33	2.45	0.39	1.11
Date 2	0807	1 - 10 ha	268	1827.15	6.82	2.56	24.46	5.03	21.91
		10 - 20 ha	11	396.97	36.09	25.35	48.04	7.20	22.68
		> 20 ha	3	645.61	215.20	79.39	442.23	197.87	362.84
		Total	**3133**	**4705.94**	**1.50**	**0.03**	**442.23**		**442.20**

Parker County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	941	208.71	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	1116	741.22	0.66	0.37	1.22	0.24	0.86
Year 2	2010	0.5 - 1 ha	350	611.25	1.75	1.33	2.45	0.38	1.11
Date 2	1010	1 - 10 ha	223	1525.22	6.84	2.67	23.80	4.61	21.13
		10 - 20 ha	11	372.18	33.83	27.35	44.70	5.10	17.35
		> 20 ha	3	749.36	249.79	72.61	559.55	269.18	486.93
		Total	**2644**	**4207.95**	**1.59**	**0.03**	**559.55**		**559.51**
Year 1	2010	< 0.1 ha	927	205.23	0.22	0.01	0.22	0.01	0.22
Date 1	1118	0.1 - 0.5 ha	1282	849.23	0.66	0.29	1.22	0.23	0.94
Year 2	2010	0.5 - 1 ha	370	648.79	1.75	1.33	2.45	0.37	1.11
Date 2	1127	1 - 10 ha	251	1695.17	6.75	2.56	24.46	4.80	21.91
		10 - 20 ha	12	403.64	33.64	26.02	46.26	5.46	20.24
		> 20 ha	2	259.45	129.72	70.69	188.76	83.49	118.07
		Total	**2844**	**4061.52**	**1.43**	**0.01**	**188.76**		**188.75**
Year 1		< 0.1 ha	430	95.27	0.22	0.05	0.22	0.01	0.18
Date 1		0.1 - 0.5 ha	573	377.12	0.66	0.33	1.22	0.23	0.89
Year 2	2010	0.5 - 1 ha	178	303.76	1.71	1.33	2.45	0.35	1.11
Date 2	1213	1 - 10 ha	158	1130.62	7.16	2.56	22.35	4.65	19.79
		10 - 20 ha	8	244.75	30.59	25.13	43.03	5.87	17.90
		> 20 ha	3	602.91	200.97	63.16	437.56	205.82	374.40
		Total	**1350**	**2754.43**	**2.04**	**0.05**	**437.56**		**437.51**

Somervell County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	163	36.03	0.22	0.01	0.22	0.02	0.21
Date 1		0.1 - 0.5 ha	134	89.18	0.67	0.44	1.11	0.24	0.67
Year 2	1997	0.5 - 1 ha	42	73.19	1.74	1.33	2.45	0.38	1.11
Date 2	0328	1 - 10 ha	35	190.22	5.43	2.67	15.57	3.31	12.90
		10 - 20 ha	3	98.63	32.88	27.35	35.69	4.78	8.34
		> 20 ha	1	57.82	57.82	57.82	57.82	0.00	0.00
Baseline Wet		**Total**	**378**	**545.08**	**1.44**	**0.01**	**57.82**		**57.81**
Year 1		< 0.1 ha	87	19.24	0.22	0.11	0.22	0.01	0.11
Date 1		0.1 - 0.5 ha	90	57.16	0.64	0.41	1.11	0.23	0.70
Year 2	1999	0.5 - 1 ha	21	36.51	1.74	1.33	2.45	0.41	1.11
Date 2	0214	1 - 10 ha	27	186.23	6.90	2.67	21.13	5.81	18.46
		10 - 20 ha	1	34.58	34.58	34.58	34.58	0.00	0.00
Baseline Dry		**Total**	**226**	**333.72**	**1.48**	**0.11**	**34.58**		**34.47**
Year 1		< 0.1 ha	120	26.48	0.22	0.01	0.22	0.02	0.21
Date 1		0.1 - 0.5 ha	114	73.14	0.64	0.44	1.22	0.24	0.78
Year 2	2003	0.5 - 1 ha	30	47.93	1.60	1.33	2.45	0.36	1.11
Date 2	1023	1 - 10 ha	30	194.65	6.49	2.67	20.68	4.19	18.01
		10 - 20 ha	2	81.51	40.75	33.03	48.48	10.93	15.46
		Total	**296**	**423.69**	**1.43**	**0.01**	**48.48**		**48.47**
Year 1		< 0.1 ha	244	54.14	0.22	0.09	0.22	0.01	0.13
Date 1		0.1 - 0.5 ha	189	125.34	0.66	0.44	1.15	0.22	0.70
Year 2	2004	0.5 - 1 ha	44	73.13	1.66	1.33	2.22	0.34	0.89
Date 2	0907	1 - 10 ha	42	251.56	5.99	2.67	18.01	3.75	15.35
		10 - 20 ha	3	107.42	35.81	24.91	47.15	11.13	22.24
		> 20 ha	2	133.99	67.00	57.71	76.28	13.13	18.57
		Total	**524**	**745.57**	**1.42**	**0.09**	**76.28**		**76.19**
Year 1		< 0.1 ha	153	33.53	0.22	0.00	0.24	0.02	0.24
Date 1		0.1 - 0.5 ha	181	122.43	0.68	0.44	1.11	0.24	0.67
Year 2	2005	0.5 - 1 ha	50	87.28	1.75	1.27	2.45	0.33	1.18
Date 2	0214	1 - 10 ha	38	254.95	6.71	2.67	19.79	4.14	17.12
		10 - 20 ha	4	139.78	34.94	28.02	46.93	8.33	18.90
		Total	**426**	**637.96**	**1.50**	**0.00**	**46.93**		**46.92**
Year 1		< 0.1 ha	70	15.57	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	78	51.23	0.66	0.41	1.11	0.22	0.70
Year 2	2006	0.5 - 1 ha	19	34.53	1.82	1.33	2.45	0.44	1.11
Date 2	1116	1 - 10 ha	35	188.84	5.40	2.67	14.90	3.34	12.23
		10 - 20 ha	2	66.13	33.07	32.47	33.67	0.85	1.20
		Total	**204**	**356.30**	**1.75**	**0.22**	**33.67**		**33.44**

Somervell County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	107	23.49	0.22	0.06	0.22	0.02	0.16
Date 1		0.1 - 0.5 ha	131	89.67	0.68	0.44	1.11	0.21	0.67
Year 2	2007	0.5 - 1 ha	34	59.38	1.75	1.33	2.45	0.35	1.11
Date 2	0308	1 - 10 ha	45	295.23	6.56	2.61	18.13	4.05	15.51
		10 - 20 ha	2	89.74	44.87	42.92	46.81	2.75	3.89
		Total	**319**	**557.51**	**1.75**	**0.06**	**46.81**		**46.75**
Year 1		< 0.1 ha	90	19.54	0.22	0.01	0.22	0.03	0.21
Date 1		0.1 - 0.5 ha	126	83.08	0.66	0.44	1.11	0.22	0.67
Year 2	2008	0.5 - 1 ha	44	75.59	1.72	1.33	2.45	0.33	1.11
Date 2	0207	1 - 10 ha	47	318.48	6.78	2.67	19.78	4.04	17.11
		10 - 20 ha	4	138.98	34.75	24.90	48.48	11.51	23.59
		> 20 ha	1	62.05	62.05	62.05	62.05	0.00	0.00
		Total	**312**	**697.72**	**2.24**	**0.01**	**62.05**		**62.03**
Year 1		< 0.1 ha	177	39.03	0.22	0.06	0.22	0.02	0.16
Date 1		0.1 - 0.5 ha	201	134.45	0.67	0.44	1.23	0.24	0.79
Year 2	2008	0.5 - 1 ha	46	77.25	1.68	1.33	2.45	0.34	1.11
Date 2	0411	1 - 10 ha	49	318.39	6.50	2.56	24.24	4.30	21.68
		10 - 20 ha	3	111.64	37.21	28.24	48.70	10.46	20.46
		> 20 ha	1	123.65	123.65	123.65	123.65	0.00	0.00
		Total	**477**	**804.41**	**1.69**	**0.06**	**123.65**		**123.59**
Year 1		< 0.1 ha	92	19.97	0.22	0.01	0.22	0.03	0.21
Date 1		0.1 - 0.5 ha	107	71.54	0.67	0.44	1.22	0.24	0.78
Year 2	2008	0.5 - 1 ha	30	48.37	1.61	1.33	2.22	0.28	0.89
Date 2	1004	1 - 10 ha	45	244.10	5.42	2.56	17.35	3.16	14.79
		10 - 20 ha	1	32.02	32.02	32.02	32.02	0.00	0.00
		> 20 ha	3	536.08	178.69	63.72	338.93	143.08	275.21
		Total	**278**	**952.08**	**3.42**	**0.01**	**338.93**		**338.92**
Year 1		< 0.1 ha	98	21.32	0.22	0.01	0.23	0.03	0.22
Date 1		0.1 - 0.5 ha	105	67.28	0.64	0.41	1.11	0.22	0.70
Year 2	2008	0.5 - 1 ha	40	67.69	1.69	1.33	2.45	0.37	1.11
Date 2	1020	1 - 10 ha	43	278.09	6.47	2.59	21.79	4.39	19.21
		10 - 20 ha	2	84.70	42.35	37.22	47.48	7.25	10.26
		> 20 ha	1	119.43	119.43	119.43	119.43	0.00	0.00
		Total	**289**	**638.52**	**2.21**	**0.01**	**119.43**		**119.41**
Year 1		< 0.1 ha	62	13.49	0.22	0.04	0.22	0.03	0.18
Date 1		0.1 - 0.5 ha	62	40.11	0.65	0.44	1.11	0.22	0.67
Year 2	2008	0.5 - 1 ha	23	38.40	1.67	1.33	2.45	0.33	1.11
Date 2	1121	1 - 10 ha	37	205.82	5.56	2.67	19.90	3.63	17.24
		10 - 20 ha	2	72.95	36.47	33.14	39.81	4.72	6.67
		> 20 ha	1	115.20	115.20	115.20	115.20	0.00	0.00
		Total	**187**	**485.97**	**2.60**	**0.04**	**115.20**		**115.16**

Somervell County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	48	10.36	0.22	0.03	0.22	0.03	0.20
Date 1		0.1 - 0.5 ha	57	36.55	0.64	0.44	1.11	0.20	0.67
Year 2	2008	0.5 - 1 ha	25	45.59	1.82	1.33	2.45	0.44	1.11
Date 2	1207	1 - 10 ha	35	223.53	6.39	2.53	18.79	3.88	16.26
		10 - 20 ha	2	72.83	36.42	33.69	39.14	3.85	5.45
		> 20 ha	1	112.98	112.98	112.98	112.98	0.00	0.00
		Total	**168**	**501.85**	**2.99**	**0.03**	**112.98**		**112.95**
Year 1		< 0.1 ha	57	12.21	0.21	0.00	0.22	0.04	0.22
Date 1		0.1 - 0.5 ha	63	40.30	0.64	0.26	1.19	0.24	0.93
Year 2	2009	0.5 - 1 ha	26	45.81	1.76	1.33	2.45	0.38	1.11
Date 2	0108	1 - 10 ha	37	256.19	6.92	2.67	19.68	4.40	17.01
		10 - 20 ha	2	75.28	37.64	32.47	42.81	7.31	10.34
		> 20 ha	1	119.87	119.87	119.87	119.87	0.00	0.00
		Total	**186**	**549.67**	**2.96**	**0.00**	**119.87**		**119.87**
Year 1		< 0.1 ha	84	17.78	0.21	0.00	0.22	0.04	0.22
Date 1		0.1 - 0.5 ha	112	76.81	0.69	0.44	1.11	0.24	0.67
Year 2	2009	0.5 - 1 ha	34	55.04	1.62	1.33	2.44	0.31	1.10
Date 2	0329	1 - 10 ha	49	340.26	6.94	2.67	23.35	4.61	20.68
		10 - 20 ha	1	36.03	36.03	36.03	36.03	0.00	0.00
		> 20 ha	2	199.71	99.86	51.82	147.89	67.93	96.07
		Total	**282**	**725.63**	**2.57**	**0.00**	**147.89**		**147.89**
Year 1		< 0.1 ha	96	20.92	0.22	0.01	0.22	0.03	0.21
Date 1		0.1 - 0.5 ha	123	83.26	0.68	0.44	1.11	0.24	0.67
Year 2	2009	0.5 - 1 ha	31	52.82	1.70	1.33	2.45	0.39	1.11
Date 2	0414	1 - 10 ha	50	354.45	7.09	2.67	23.35	4.63	20.68
		10 - 20 ha	1	37.81	37.81	37.81	37.81	0.00	0.00
		> 20 ha	2	204.60	102.30	52.04	152.56	71.08	100.52
		Total	**303**	**753.86**	**2.49**	**0.01**	**152.56**		**152.55**
Year 1		< 0.1 ha	110	23.73	0.22	0.01	0.22	0.03	0.21
Date 1		0.1 - 0.5 ha	112	74.47	0.66	0.26	1.11	0.23	0.85
Year 2	2009	0.5 - 1 ha	34	59.35	1.75	1.33	2.45	0.37	1.11
Date 2	0703	1 - 10 ha	45	276.13	6.14	2.67	17.35	3.46	14.69
		10 - 20 ha	1	24.91	24.91	24.91	24.91	0.00	0.00
		> 20 ha	3	251.86	83.95	53.82	135.33	44.71	81.51
		Total	**305**	**710.46**	**2.33**	**0.01**	**135.33**		**135.31**
Year 1		< 0.1 ha	298	65.07	0.22	0.00	0.22	0.03	0.22
Date 1		0.1 - 0.5 ha	219	141.71	0.65	0.44	1.11	0.22	0.67
Year 2	2009	0.5 - 1 ha	48	83.40	1.74	1.33	2.45	0.38	1.11
Date 2	0804	1 - 10 ha	59	387.28	6.56	2.53	20.91	4.10	18.38
		10 - 20 ha	1	32.69	32.69	32.69	32.69	0.00	0.00
		> 20 ha	2	195.04	97.52	52.49	142.56	63.69	90.07
		Total	**627**	**905.19**	**1.44**	**0.00**	**142.56**		**142.55**

Somervell County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	166	36.54	0.22	0.01	0.22	0.02	0.21
Date 1		0.1 - 0.5 ha	181	121.18	0.67	0.44	1.11	0.24	0.67
Year 2	2009	0.5 - 1 ha	58	97.46	1.68	1.33	2.45	0.34	1.11
Date 2	1023	1 - 10 ha	47	318.77	6.78	2.67	22.46	4.76	19.79
		10 - 20 ha	2	77.28	38.64	33.80	43.48	6.84	9.67
		> 20 ha	1	155.23	155.23	155.23	155.23	0.00	0.00
		Total	**455**	**806.46**	**1.77**	**0.01**	**155.23**		**155.22**
Year 1		< 0.1 ha	188	40.85	0.22	0.00	0.22	0.03	0.22
Date 1		0.1 - 0.5 ha	187	122.50	0.66	0.44	1.22	0.23	0.78
Year 2	2009	0.5 - 1 ha	52	89.13	1.71	1.31	2.45	0.32	1.13
Date 2	1124	1 - 10 ha	49	333.72	6.81	2.67	20.57	4.39	17.90
		10 - 20 ha	1	26.91	26.91	26.91	26.91	0.00	0.00
		> 20 ha	2	208.27	104.14	57.60	150.67	65.81	93.07
		Total	**479**	**821.38**	**1.71**	**0.00**	**150.67**		**150.67**
Year 1		< 0.1 ha	156	34.08	0.22	0.01	0.22	0.03	0.21
Date 1		0.1 - 0.5 ha	150	99.25	0.66	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	50	84.53	1.69	1.33	2.45	0.36	1.11
Date 2	1210	1 - 10 ha	46	292.62	6.36	2.56	17.79	3.64	15.23
		10 - 20 ha	3	96.85	32.28	26.91	38.47	5.83	11.56
		> 20 ha	1	418.99	418.99	418.99	418.99	0.00	0.00
		Total	**406**	**1026.32**	**2.53**	**0.01**	**418.99**		**418.98**
Year 1		< 0.1 ha	22	4.80	0.22	0.13	0.22	0.02	0.09
Date 1		0.1 - 0.5 ha	29	19.39	0.67	0.44	1.22	0.26	0.78
Year 2	2010	0.5 - 1 ha	16	27.66	1.73	1.33	2.22	0.26	0.89
Date 2	0111	1 - 10 ha	19	147.23	7.75	2.89	19.35	4.54	16.46
		10 - 20 ha	2	74.28	37.14	30.47	43.81	9.44	13.34
		> 20 ha	1	134.10	134.10	134.10	134.10	0.00	0.00
		Total	**89**	**407.47**	**4.58**	**0.13**	**134.10**		**133.97**
Year 1		< 0.1 ha	379	83.44	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	252	169.05	0.67	0.26	1.22	0.23	0.96
Year 2	2010	0.5 - 1 ha	63	109.72	1.74	1.25	2.45	0.34	1.20
Date 2	0620	1 - 10 ha	60	415.71	6.93	2.67	19.13	4.43	16.46
		10 - 20 ha	3	93.96	31.32	28.80	36.03	4.08	7.23
		> 20 ha	2	225.73	112.87	50.48	175.25	88.22	124.76
		Total	**759**	**1097.60**	**1.45**	**0.00**	**175.25**		**175.25**
Year 1		< 0.1 ha	368	81.35	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	242	159.26	0.66	0.26	1.22	0.23	0.96
Year 2	2010	0.5 - 1 ha	59	102.83	1.74	1.33	2.45	0.36	1.11
Date 2	0807	1 - 10 ha	57	375.90	6.59	2.67	20.91	4.12	18.24
		10 - 20 ha	3	115.26	38.42	27.13	48.26	10.64	21.13
		> 20 ha	2	250.86	125.43	73.84	177.03	72.97	103.19
		Total	**731**	**1085.46**	**1.48**	**0.00**	**177.03**		**177.03**

Somervell County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	175	38.11	0.22	0.00	0.22	0.03	0.22
Date 1		0.1 - 0.5 ha	184	125.88	0.68	0.26	1.22	0.24	0.96
Year 2	2010	0.5 - 1 ha	64	112.50	1.76	1.33	2.45	0.36	1.11
Date 2	1010	1 - 10 ha	59	416.06	7.05	2.67	23.57	4.53	20.91
		10 - 20 ha	4	170.55	42.64	37.14	48.04	4.45	10.90
		> 20 ha	1	168.35	168.35	168.35	168.35	0.00	0.00
		Total	**487**	**1031.44**	**2.12**	**0.00**	**168.35**		**168.35**
Year 1		< 0.1 ha	137	29.97	0.22	0.00	0.22	0.03	0.22
Date 1		0.1 - 0.5 ha	216	147.25	0.68	0.44	1.22	0.23	0.78
Year 2	2010	0.5 - 1 ha	55	91.97	1.67	1.33	2.45	0.34	1.11
Date 2	1127	1 - 10 ha	58	395.13	6.81	2.67	24.46	4.57	21.79
		10 - 20 ha	3	110.42	36.81	25.24	46.70	10.83	21.46
		> 20 ha	1	163.68	163.68	163.68	163.68	0.00	0.00
		Total	**470**	**938.42**	**2.00**	**0.00**	**163.68**		**163.68**
Year 1		< 0.1 ha	78	16.72	0.21	0.00	0.22	0.04	0.22
Date 1		0.1 - 0.5 ha	78	53.64	0.69	0.40	1.11	0.26	0.71
Year 2	2010	0.5 - 1 ha	26	46.68	1.80	1.33	2.45	0.39	1.11
Date 2	1213	1 - 10 ha	42	274.83	6.54	2.56	22.80	4.66	20.24
		10 - 20 ha	1	40.48	40.48	40.48	40.48	0.00	0.00
		> 20 ha	1	114.87	114.87	114.87	114.87	0.00	0.00
		Total	**226**	**547.22**	**2.42**	**0.00**	**114.87**		**114.87**

Tarrant County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	213	46.85	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	267	176.58	0.66	0.44	1.22	0.22	0.78
Year 2	1997	0.5 - 1 ha	113	195.35	1.73	1.33	2.45	0.35	1.11
Date 2	0328	1 - 10 ha	135	982.82	7.28	2.47	23.57	5.39	21.10
		10 - 20 ha	11	380.49	34.59	26.44	43.59	5.62	17.15
		> 20 ha	3	610.03	203.34	111.86	322.47	107.99	210.61
Baseline Wet		**Total**	**742**	**2392.12**	**3.22**	**0.00**	**322.47**		**322.47**
Year 1		< 0.1 ha	168	37.36	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	241	165.39	0.69	0.44	1.22	0.25	0.78
Year 2	1999	0.5 - 1 ha	87	155.23	1.78	1.33	2.45	0.38	1.11
Date 2	0214	1 - 10 ha	106	767.86	7.24	2.67	22.46	5.05	19.79
		10 - 20 ha	8	248.25	31.03	25.80	39.59	4.55	13.79
		> 20 ha	2	304.90	152.45	113.64	191.26	54.88	77.62
Baseline Dry		**Total**	**612**	**1678.99**	**2.74**	**0.22**	**191.26**		**191.04**
Year 1		< 0.1 ha	189	41.84	0.22	0.03	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	273	185.68	0.68	0.42	1.22	0.24	0.80
Year 2	2003	0.5 - 1 ha	132	231.18	1.75	1.33	2.45	0.36	1.11
Date 2	1023	1 - 10 ha	144	1032.43	7.17	2.67	24.46	4.95	21.79
		10 - 20 ha	6	182.92	30.49	25.58	39.36	4.98	13.79
		> 20 ha	3	446.57	148.86	83.84	257.76	94.90	173.91
		Total	**747**	**2120.61**	**2.84**	**0.03**	**257.76**		**257.73**
Year 1		< 0.1 ha	231	51.15	0.22	0.05	0.22	0.01	0.17
Date 1		0.1 - 0.5 ha	333	232.16	0.70	0.42	1.22	0.24	0.80
Year 2	2004	0.5 - 1 ha	157	269.65	1.72	1.33	2.45	0.34	1.11
Date 2	0907	1 - 10 ha	165	1153.42	6.99	2.67	23.13	4.66	20.46
		10 - 20 ha	10	323.81	32.38	26.02	47.15	6.83	21.13
		> 20 ha	3	615.59	205.20	82.51	271.99	106.39	189.48
		Total	**899**	**2645.77**	**2.94**	**0.05**	**271.99**		**271.94**
Year 1		< 0.1 ha	244	53.78	0.22	0.03	0.22	0.02	0.20
Date 1		0.1 - 0.5 ha	395	265.96	0.67	0.44	1.22	0.24	0.78
Year 2	2005	0.5 - 1 ha	215	370.37	1.72	1.33	2.45	0.35	1.11
Date 2	0214	1 - 10 ha	201	1382.19	6.88	2.67	24.46	4.75	21.79
		10 - 20 ha	10	347.05	34.70	25.13	41.37	5.12	16.23
		> 20 ha	4	802.40	200.60	50.48	392.30	160.62	341.82
		Total	**1069**	**3221.75**	**3.01**	**0.03**	**392.30**		**392.28**
Year 1		< 0.1 ha	146	32.47	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	253	175.11	0.69	0.42	1.22	0.24	0.80
Year 2	2006	0.5 - 1 ha	148	263.54	1.78	1.33	2.45	0.36	1.11
Date 2	1116	1 - 10 ha	136	877.62	6.45	2.56	23.57	4.36	21.02
		10 - 20 ha	5	150.56	30.11	26.69	32.47	2.34	5.78
		> 20 ha	3	507.51	169.17	56.93	354.05	161.33	297.12
		Total	**691**	**2006.81**	**2.90**	**0.22**	**354.05**		**353.83**

Tarrant County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	237	52.37	0.22	0.05	0.22	0.02	0.17
Date 1		0.1 - 0.5 ha	402	282.86	0.70	0.44	1.22	0.24	0.78
Year 2	2007	0.5 - 1 ha	238	421.60	1.77	1.33	2.45	0.37	1.11
Date 2	0308	1 - 10 ha	234	1427.45	6.10	2.56	23.13	4.23	20.57
		10 - 20 ha	15	482.04	32.14	24.91	46.15	6.12	21.24
		> 20 ha	5	876.68	175.34	56.04	453.46	161.30	397.42
		Total	**1131**	**3543.00**	**3.13**	**0.05**	**453.46**		**453.41**
Year 1		< 0.1 ha	211	46.48	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	417	292.33	0.70	0.44	1.22	0.25	0.78
Year 2	2008	0.5 - 1 ha	214	379.18	1.77	1.33	2.45	0.37	1.11
Date 2	0207	1 - 10 ha	202	1304.67	6.46	2.67	21.57	4.52	18.90
		10 - 20 ha	14	452.13	32.29	25.58	48.70	6.70	23.13
		> 20 ha	5	1519.62	303.92	56.71	1124.87	462.78	1068.16
		Total	**1063**	**3994.42**	**3.76**	**0.00**	**1124.87**		**1124.87**
Year 1		< 0.1 ha	259	57.18	0.22	0.00	0.22	0.02	0.22
Date 1		0.1 - 0.5 ha	400	287.15	0.72	0.28	1.11	0.24	0.83
Year 2	2008	0.5 - 1 ha	219	387.72	1.77	1.33	2.45	0.35	1.11
Date 2	0411	1 - 10 ha	244	1491.34	6.11	2.56	24.46	4.16	21.91
		10 - 20 ha	18	621.18	34.51	25.35	47.48	6.92	22.13
		> 20 ha	4	1723.78	430.95	79.39	1262.98	558.37	1183.59
		Total	**1144**	**4568.35**	**3.99**	**0.00**	**1262.98**		**1262.98**
Year 1		< 0.1 ha	205	45.59	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	364	259.98	0.71	0.44	1.22	0.24	0.78
Year 2	2008	0.5 - 1 ha	207	361.95	1.75	1.33	2.45	0.38	1.11
Date 2	1004	1 - 10 ha	202	1278.38	6.33	2.67	21.13	4.30	18.46
		10 - 20 ha	9	294.01	32.67	25.13	42.92	5.55	17.79
		> 20 ha	5	720.00	144.00	56.04	351.83	122.01	295.79
		Total	**992**	**2959.91**	**2.98**	**0.22**	**351.83**		**351.61**
Year 1		< 0.1 ha	199	44.26	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	345	241.19	0.70	0.44	1.22	0.24	0.78
Year 2	2008	0.5 - 1 ha	204	360.52	1.77	1.33	2.45	0.39	1.11
Date 2	1020	1 - 10 ha	198	1289.00	6.51	2.67	22.68	4.75	20.02
		10 - 20 ha	9	303.79	33.75	26.24	40.25	5.24	14.01
		> 20 ha	4	634.16	158.54	51.26	400.53	162.85	349.27
		Total	**959**	**2872.91**	**3.00**	**0.22**	**400.53**		**400.31**
Year 1		< 0.1 ha	175	38.92	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	284	204.84	0.72	0.34	1.22	0.26	0.89
Year 2	2008	0.5 - 1 ha	153	274.33	1.79	1.33	2.45	0.40	1.11
Date 2	1121	1 - 10 ha	151	915.89	6.07	2.67	22.91	4.15	20.24
		10 - 20 ha	10	311.13	31.11	24.91	41.14	5.21	16.23
		> 20 ha	3	500.61	166.87	68.28	338.04	148.81	269.76
		Total	**776**	**2245.72**	**2.89**	**0.22**	**338.04**		**337.82**

Tarrant County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	164	36.47	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	306	205.29	0.67	0.44	1.22	0.23	0.78
Year 2	2008	0.5 - 1 ha	162	288.23	1.78	1.33	2.45	0.36	1.11
Date 2	1207	1 - 10 ha	147	961.09	6.54	2.53	24.24	4.67	21.71
		10 - 20 ha	7	228.96	32.71	28.24	44.48	5.76	16.23
		> 20 ha	3	496.61	165.54	60.27	341.60	153.45	281.33
		Total	**789**	**2216.64**	**2.81**	**0.22**	**341.60**		**341.38**
Year 1		< 0.1 ha	191	42.31	0.22	0.06	0.22	0.01	0.17
Date 1		0.1 - 0.5 ha	362	253.66	0.70	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	155	277.10	1.79	1.33	2.45	0.38	1.11
Date 2	0108	1 - 10 ha	160	1019.29	6.37	2.67	24.46	4.59	21.79
		10 - 20 ha	7	224.17	32.02	26.91	43.59	5.42	16.68
		> 20 ha	3	518.40	172.80	72.72	345.38	150.09	272.66
		Total	**878**	**2334.94**	**2.66**	**0.06**	**345.38**		**345.32**
Year 1		< 0.1 ha	248	54.83	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	359	254.06	0.71	0.44	1.22	0.25	0.78
Year 2	2009	0.5 - 1 ha	208	374.28	1.80	1.33	2.45	0.37	1.11
Date 2	0329	1 - 10 ha	242	1493.93	6.17	2.56	22.68	4.25	20.13
		10 - 20 ha	11	378.96	34.45	25.13	48.93	8.35	23.80
		> 20 ha	4	797.06	199.27	59.82	452.35	174.04	392.53
		Total	**1072**	**3353.12**	**3.13**	**0.02**	**452.35**		**452.33**
Year 1		< 0.1 ha	215	47.62	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	399	285.44	0.72	0.44	1.22	0.26	0.78
Year 2	2009	0.5 - 1 ha	225	400.27	1.78	1.33	2.45	0.37	1.11
Date 2	0414	1 - 10 ha	260	1686.54	6.49	2.56	24.02	4.59	21.46
		10 - 20 ha	13	456.91	35.15	26.69	48.48	8.05	21.79
		> 20 ha	5	1651.21	330.24	51.82	1325.03	556.76	1273.21
		Total	**1117**	**4528.00**	**4.05**	**0.02**	**1325.03**		**1325.00**
Year 1		< 0.1 ha	267	58.82	0.22	0.02	0.22	0.02	0.20
Date 1		0.1 - 0.5 ha	412	305.02	0.74	0.44	1.22	0.25	0.78
Year 2	2009	0.5 - 1 ha	254	449.00	1.77	1.33	2.45	0.37	1.11
Date 2	0703	1 - 10 ha	277	1780.89	6.43	2.56	24.46	4.57	21.91
		10 - 20 ha	11	354.27	32.21	25.13	45.37	6.33	20.24
		> 20 ha	5	1613.60	322.72	55.38	833.88	321.49	778.50
		Total	**1226**	**4561.60**	**3.72**	**0.02**	**833.88**		**833.86**
Year 1		< 0.1 ha	285	62.81	0.22	0.01	0.22	0.02	0.21
Date 1		0.1 - 0.5 ha	409	292.45	0.72	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	245	442.45	1.81	1.33	2.45	0.37	1.11
Date 2	0804	1 - 10 ha	275	1715.47	6.24	2.47	23.69	4.33	21.21
		10 - 20 ha	13	468.70	36.05	24.91	48.48	7.28	23.57
		> 20 ha	5	1454.57	290.91	70.05	607.14	228.05	537.08
		Total	**1232**	**4436.46**	**3.60**	**0.01**	**607.14**		**607.13**

Tarrant County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	230	51.14	0.22	0.21	0.22	0.00	0.01
Date 1		0.1 - 0.5 ha	389	275.08	0.71	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	207	366.05	1.77	1.33	2.45	0.39	1.11
Date 2	1023	1 - 10 ha	225	1460.69	6.49	2.67	24.46	4.65	21.79
		10 - 20 ha	10	338.26	33.83	26.24	43.14	7.43	16.90
		> 20 ha	4	1977.82	494.46	54.04	1364.39	614.57	1310.35
		Total	**1065**	**4469.05**	**4.20**	**0.21**	**1364.39**		**1364.18**
Year 1		< 0.1 ha	230	50.97	0.22	0.03	0.24	0.01	0.22
Date 1		0.1 - 0.5 ha	409	291.34	0.71	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	212	377.11	1.78	1.33	2.45	0.37	1.11
Date 2	1124	1 - 10 ha	241	1542.10	6.40	2.56	24.24	4.72	21.68
		10 - 20 ha	11	387.40	35.22	25.13	43.48	6.26	18.35
		> 20 ha	6	899.14	149.86	49.82	463.47	158.81	413.65
		Total	**1109**	**3548.06**	**3.20**	**0.03**	**463.47**		**463.45**
Year 1		< 0.1 ha	206	45.81	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	360	254.45	0.71	0.44	1.22	0.24	0.78
Year 2	2009	0.5 - 1 ha	205	360.95	1.76	1.33	2.45	0.38	1.11
Date 2	1210	1 - 10 ha	210	1328.38	6.33	2.56	24.69	4.64	22.13
		10 - 20 ha	11	374.85	34.08	25.35	47.15	7.49	21.79
		> 20 ha	7	917.27	131.04	50.26	419.21	131.90	368.95
		Total	**999**	**3281.71**	**3.28**	**0.22**	**419.21**		**418.99**
Year 1		< 0.1 ha	150	33.36	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	322	224.08	0.70	0.44	1.22	0.23	0.78
Year 2	2010	0.5 - 1 ha	167	293.17	1.76	1.33	2.45	0.38	1.11
Date 2	0111	1 - 10 ha	172	1135.85	6.60	2.67	24.24	4.77	21.57
		10 - 20 ha	9	319.91	35.55	26.02	49.15	7.79	23.13
		> 20 ha	4	686.87	171.72	62.83	368.51	140.54	305.68
		Total	**824**	**2693.24**	**3.27**	**0.22**	**368.51**		**368.29**
Year 1		< 0.1 ha	244	54.26	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	385	272.77	0.71	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	200	350.71	1.75	1.33	2.45	0.35	1.11
Date 2	0604	1 - 10 ha	223	1482.73	6.65	2.56	24.24	4.48	21.68
		10 - 20 ha	12	428.67	35.72	26.02	49.37	8.42	23.35
		> 20 ha	5	810.96	162.19	50.26	421.44	157.09	371.18
		Total	**1069**	**3400.10**	**3.18**	**0.22**	**421.44**		**421.22**
Year 1		< 0.1 ha	276	60.95	0.22	0.02	0.22	0.02	0.20
Date 1		0.1 - 0.5 ha	440	324.58	0.74	0.44	1.22	0.25	0.79
Year 2	2010	0.5 - 1 ha	248	430.47	1.74	1.33	2.45	0.34	1.11
Date 2	0620	1 - 10 ha	275	1811.79	6.59	2.67	24.69	4.50	22.02
		10 - 20 ha	8	278.22	34.78	26.46	44.26	6.43	17.79
		> 20 ha	8	1922.70	240.34	49.82	1160.23	375.96	1110.42
		Total	**1255**	**4828.71**	**3.85**	**0.02**	**1160.23**		**1160.21**

Tarrant County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	281	62.09	0.22	0.02	0.22	0.02	0.20
Date 1		0.1 - 0.5 ha	416	290.67	0.70	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	250	453.27	1.81	1.33	2.45	0.38	1.11
Date 2	0807	1 - 10 ha	280	1863.52	6.66	2.49	22.57	4.65	20.09
		10 - 20 ha	17	575.34	33.84	24.91	48.70	7.60	23.80
		> 20 ha	5	928.05	185.61	54.26	503.06	182.98	448.79
		Total	**1249**	**4172.94**	**3.34**	**0.02**	**503.06**		**503.04**
Year 1		< 0.1 ha	237	52.71	0.22	0.22	0.22	0.00	0.00
Date 1		0.1 - 0.5 ha	448	323.91	0.72	0.33	1.22	0.25	0.90
Year 2	2010	0.5 - 1 ha	226	396.10	1.75	1.33	2.45	0.38	1.11
Date 2	1010	1 - 10 ha	240	1499.62	6.25	2.56	24.24	4.51	21.68
		10 - 20 ha	14	483.38	34.53	25.13	48.37	8.08	23.24
		> 20 ha	7	892.92	127.56	50.93	404.98	124.59	354.05
		Total	**1172**	**3648.63**	**3.11**	**0.22**	**404.98**		**404.76**
Year 1		< 0.1 ha	201	44.37	0.22	0.06	0.22	0.02	0.17
Date 1		0.1 - 0.5 ha	325	230.42	0.71	0.44	1.22	0.24	0.78
Year 2	2010	0.5 - 1 ha	155	268.54	1.73	1.33	2.45	0.37	1.11
Date 2	1213	1 - 10 ha	164	1108.79	6.76	2.67	23.80	5.17	21.13
		10 - 20 ha	10	347.46	34.75	26.69	43.37	5.71	16.68
		> 20 ha	4	578.00	144.50	74.95	328.48	123.04	253.53
		Total	**859**	**2577.58**	**3.00**	**0.06**	**328.48**		**328.42**

Wise County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	1997	< 0.1 ha	1065	236.25	0.22	0.00	0.22	0.01	0.22
Date 1	0303	0.1 - 0.5 ha	1695	1151.78	0.68	0.25	1.22	0.24	0.97
Year 2	1997	0.5 - 1 ha	479	816.12	1.70	1.26	2.45	0.34	1.19
Date 2	0328	1 - 10 ha	303	2153.65	7.11	2.47	24.69	5.32	22.21
		10 - 20 ha	29	992.27	34.22	25.35	47.37	6.77	22.02
		> 20 ha	8	851.58	106.45	51.76	271.03	73.75	219.27
Baseline Wet		**Total**	**3579**	**6201.65**	**1.73**	**0.00**	**271.03**		**271.03**
Year 1	1999	< 0.1 ha	399	88.74	0.22	0.22	0.22	0.00	0.00
Date 1	0221	0.1 - 0.5 ha	509	322.05	0.63	0.25	1.22	0.26	0.97
Year 2	1999	0.5 - 1 ha	89	154.19	1.73	1.33	2.45	0.36	1.11
Date 2	0214	1 - 10 ha	141	1109.53	7.87	2.50	23.57	5.25	21.08
		10 - 20 ha	8	242.12	30.27	25.80	46.39	6.72	20.59
		> 20 ha	6	427.41	71.23	52.11	94.44	16.50	42.33
Baseline Dry		**Total**	**1152**	**2344.03**	**2.03**	**0.22**	**94.44**		**94.22**
Year 1	2003	< 0.1 ha	730	162.16	0.22	0.02	0.24	0.01	0.23
Date 1	1014	0.1 - 0.5 ha	1022	651.64	0.64	0.25	1.22	0.25	0.97
Year 2	2003	0.5 - 1 ha	215	365.24	1.70	1.24	2.46	0.33	1.22
Date 2	1023	1 - 10 ha	193	1440.00	7.46	2.49	24.69	5.10	22.20
		10 - 20 ha	16	511.64	31.98	25.13	49.04	7.61	23.90
		> 20 ha	5	416.40	83.28	66.12	131.43	27.17	65.32
		Total	**2181**	**3547.08**	**1.63**	**0.02**	**131.43**		**131.41**
Year 1	2004	< 0.1 ha	1212	269.20	0.22	0.04	0.22	0.01	0.18
Date 1	1016	0.1 - 0.5 ha	1562	1009.26	0.65	0.25	1.22	0.25	0.97
Year 2	2004	0.5 - 1 ha	363	614.36	1.69	1.33	2.45	0.33	1.12
Date 2	0907	1 - 10 ha	249	1941.10	7.80	2.49	24.24	5.56	21.76
		10 - 20 ha	22	685.47	31.16	24.80	44.03	5.45	19.23
		> 20 ha	6	788.60	131.43	78.51	241.19	65.92	162.68
		Total	**3414**	**5307.99**	**1.55**	**0.04**	**241.19**		**241.14**
Year 1	2005	< 0.1 ha	1110	246.30	0.22	0.00	0.24	0.01	0.24
Date 1	0221	0.1 - 0.5 ha	1814	1197.13	0.66	0.25	1.22	0.25	0.97
Year 2	2005	0.5 - 1 ha	403	686.30	1.70	1.33	2.47	0.33	1.14
Date 2	0214	1 - 10 ha	283	2034.15	7.19	2.48	24.69	4.92	22.21
		10 - 20 ha	26	853.33	32.82	26.08	46.72	5.92	20.65
		> 20 ha	8	920.64	115.08	53.82	184.08	44.61	130.26
		Total	**3644**	**5937.85**	**1.63**	**0.00**	**184.08**		**184.08**
Year 1	2006	< 0.1 ha	297	65.86	0.22	0.04	0.22	0.01	0.18
Date 1	1123	0.1 - 0.5 ha	397	254.25	0.64	0.25	1.19	0.26	0.93
Year 2	2006	0.5 - 1 ha	76	133.62	1.76	1.33	2.45	0.35	1.11
Date 2	1116	1 - 10 ha	122	931.70	7.64	2.54	24.51	4.98	21.97
		10 - 20 ha	5	144.60	28.92	25.03	35.66	4.21	10.63
		> 20 ha	3	218.08	72.69	59.17	93.21	18.06	34.03

Wise County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2007	< 0.1 ha	1253	278.10	0.22	0.00	0.22	0.01	0.22
Date 1	0331	0.1 - 0.5 ha	1615	1076.17	0.67	0.25	1.23	0.24	0.97
Year 2	2007	0.5 - 1 ha	434	740.49	1.71	1.26	2.47	0.33	1.22
Date 2	0308	1 - 10 ha	267	1855.41	6.95	2.48	23.57	5.17	21.09
		10 - 20 ha	15	539.35	35.96	26.06	49.18	6.61	23.11
		> 20 ha	6	974.22	162.37	58.27	425.27	149.14	367.00
		Total	**3590**	**5463.73**	**1.52**	**0.00**	**425.27**		**425.27**
Year 1		< 0.1 ha	668	147.82	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	840	553.54	0.66	0.44	1.22	0.23	0.78
Year 2	2008	0.5 - 1 ha	213	363.37	1.71	1.33	2.45	0.34	1.11
Date 2	0207	1 - 10 ha	200	1636.86	8.18	2.56	24.24	5.30	21.68
		10 - 20 ha	11	346.49	31.50	24.91	48.59	7.59	23.69
		> 20 ha	6	414.43	69.07	55.82	80.51	10.09	24.69
		Total	**1938**	**3462.51**	**1.79**	**0.02**	**80.51**		**80.48**
Year 1	2008	< 0.1 ha	1541	342.00	0.22	0.00	0.22	0.01	0.22
Date 1	0418	0.1 - 0.5 ha	2479	1638.61	0.66	0.25	1.22	0.26	0.97
Year 2	2008	0.5 - 1 ha	697	1212.74	1.74	1.29	2.47	0.34	1.18
Date 2	0411	1 - 10 ha	468	3094.82	6.61	2.50	24.69	4.99	22.19
		10 - 20 ha	38	1244.17	32.74	24.94	46.70	6.07	21.77
		> 20 ha	14	1557.23	111.23	50.21	373.62	82.30	323.42
		Total	**5237**	**9089.57**	**1.74**	**0.00**	**373.62**		**373.62**
Year 1		< 0.1 ha	746	165.42	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	777	511.53	0.66	0.36	1.22	0.23	0.87
Year 2	2008	0.5 - 1 ha	207	364.24	1.76	1.33	2.45	0.35	1.11
Date 2	1004	1 - 10 ha	197	1562.62	7.93	2.56	24.46	5.54	21.91
		10 - 20 ha	12	366.95	30.58	24.91	34.69	2.62	9.79
		> 20 ha	6	383.19	63.86	49.82	89.18	13.49	39.36
		Total	**1945**	**3353.95**	**1.72**	**0.02**	**89.18**		**89.16**
Year 1		< 0.1 ha	677	150.23	0.22	0.08	0.22	0.01	0.14
Date 1		0.1 - 0.5 ha	675	444.59	0.66	0.36	1.22	0.23	0.87
Year 2	2008	0.5 - 1 ha	203	358.32	1.77	1.33	2.45	0.35	1.11
Date 2	1020	1 - 10 ha	189	1507.27	7.97	2.67	24.69	5.45	22.02
		10 - 20 ha	13	429.44	33.03	27.69	45.70	5.60	18.01
		> 20 ha	4	280.00	70.00	50.93	90.74	17.17	39.81
		Total	**1761**	**3169.84**	**1.80**	**0.08**	**90.74**		**90.66**
Year 1		< 0.1 ha	315	69.81	0.22	0.04	0.22	0.01	0.18
Date 1		0.1 - 0.5 ha	422	288.56	0.68	0.44	1.22	0.24	0.78
Year 2	2008	0.5 - 1 ha	135	236.06	1.75	1.30	2.45	0.38	1.14
Date 2	1121	1 - 10 ha	158	1244.80	7.88	2.67	24.46	5.42	21.79
		10 - 20 ha	10	303.12	30.31	25.80	41.14	4.62	15.35
		> 20 ha	3	223.40	74.47	59.49	86.51	13.75	27.02
		Total	**1043**	**2365.75**	**2.27**	**0.04**	**86.51**		**86.47**

Wise County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	345	76.47	0.22	0.08	0.22	0.01	0.14
Date 1		0.1 - 0.5 ha	393	265.65	0.68	0.44	1.22	0.24	0.78
Year 2	2008	0.5 - 1 ha	119	206.62	1.74	1.33	2.45	0.37	1.11
Date 2	1207	1 - 10 ha	157	1227.00	7.82	2.56	24.57	5.37	22.02
		10 - 20 ha	7	221.51	31.64	26.46	38.47	4.75	12.01
		> 20 ha	4	295.56	73.89	57.16	82.73	11.67	25.58
		Total	**1025**	**2292.82**	**2.24**	**0.08**	**82.73**		**82.65**
Year 1		< 0.1 ha	352	78.17	0.22	0.11	0.22	0.01	0.11
Date 1		0.1 - 0.5 ha	421	277.99	0.66	0.36	1.22	0.23	0.87
Year 2	2009	0.5 - 1 ha	130	223.33	1.72	1.27	2.45	0.34	1.18
Date 2	0108	1 - 10 ha	161	1249.74	7.76	2.56	24.13	5.36	21.57
		10 - 20 ha	6	189.93	31.65	27.35	47.81	8.01	20.46
		> 20 ha	4	267.54	66.89	56.71	78.51	10.15	21.79
		Total	**1074**	**2286.70**	**2.13**	**0.11**	**78.51**		**78.39**
Year 1		< 0.1 ha	410	90.83	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	626	432.04	0.69	0.33	1.22	0.25	0.89
Year 2	2009	0.5 - 1 ha	236	414.62	1.76	1.33	2.45	0.38	1.11
Date 2	0329	1 - 10 ha	216	1535.54	7.11	2.67	24.46	4.95	21.79
		10 - 20 ha	12	414.32	34.53	27.35	48.04	6.36	20.68
		> 20 ha	3	245.08	81.69	62.49	96.96	17.57	34.47
		Total	**1503**	**3132.44**	**2.08**	**0.02**	**96.96**		**96.94**
Year 1		< 0.1 ha	599	132.63	0.22	0.00	0.22	0.01	0.22
Date 1		0.1 - 0.5 ha	718	480.22	0.67	0.33	1.22	0.23	0.89
Year 2	2009	0.5 - 1 ha	237	417.10	1.76	1.33	2.45	0.38	1.11
Date 2	0414	1 - 10 ha	220	1606.44	7.30	2.67	24.24	5.07	21.57
		10 - 20 ha	11	362.06	32.91	24.91	45.59	7.12	20.68
		> 20 ha	5	455.69	91.14	60.05	157.46	39.43	97.41
		Total	**1790**	**3454.14**	**1.93**	**0.00**	**157.46**		**157.46**
Year 1		< 0.1 ha	942	208.97	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	1056	705.25	0.67	0.42	1.22	0.24	0.81
Year 2	2009	0.5 - 1 ha	276	481.42	1.74	1.33	2.45	0.37	1.11
Date 2	0703	1 - 10 ha	228	1663.56	7.30	2.67	24.46	5.26	21.79
		10 - 20 ha	14	432.22	30.87	25.02	38.92	4.77	13.90
		> 20 ha	3	200.16	66.72	53.82	89.63	19.89	35.81
		Total	**2519**	**3691.58**	**1.47**	**0.02**	**89.63**		**89.60**
Year 1		< 0.1 ha	1066	236.67	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	1251	826.71	0.66	0.33	1.22	0.23	0.89
Year 2	2009	0.5 - 1 ha	328	564.87	1.72	1.33	2.45	0.36	1.11
Date 2	0804	1 - 10 ha	242	1720.26	7.11	2.56	23.80	5.07	21.24
		10 - 20 ha	11	347.94	31.63	25.35	41.14	4.11	15.79
		> 20 ha	4	257.98	64.49	52.49	88.96	17.10	36.47
		Total	**2902**	**3954.43**	**1.36**	**0.02**	**88.96**		**88.93**

Wise County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1	2009	< 0.1 ha	1397	310.41	0.22	0.00	0.24	0.01	0.24
Date 1	0928	0.1 - 0.5 ha	1852	1235.63	0.67	0.27	1.23	0.24	0.95
Year 2	2009	0.5 - 1 ha	528	893.57	1.69	1.24	2.45	0.33	1.20
Date 2	1023	1 - 10 ha	378	2639.78	6.98	2.48	23.27	5.16	20.79
		10 - 20 ha	22	699.25	31.78	25.58	42.48	4.58	16.90
		> 20 ha	10	772.96	77.30	49.50	130.64	24.86	81.14
		Total	**4187**	**6551.61**	**1.56**	**0.00**	**130.64**		**130.64**
Year 1		< 0.1 ha	958	212.36	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	1149	759.78	0.66	0.31	1.22	0.23	0.92
Year 2	2009	0.5 - 1 ha	288	491.76	1.71	1.33	2.45	0.36	1.11
Date 2	1124	1 - 10 ha	263	1989.05	7.56	2.56	24.69	5.41	22.13
		10 - 20 ha	16	507.17	31.70	26.24	41.25	5.67	15.01
		> 20 ha	6	425.44	70.91	51.37	84.95	14.41	33.58
		Total	**2680**	**4385.56**	**1.64**	**0.02**	**84.95**		**84.93**
Year 1		< 0.1 ha	872	193.24	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	997	655.85	0.66	0.30	1.22	0.24	0.92
Year 2	2009	0.5 - 1 ha	243	426.60	1.76	1.33	2.45	0.36	1.11
Date 2	1210	1 - 10 ha	238	1719.16	7.22	2.67	24.24	4.93	21.57
		10 - 20 ha	17	529.63	31.15	25.35	47.37	7.23	22.02
		> 20 ha	5	351.94	70.39	54.49	79.62	10.39	25.13
		Total	**2372**	**3876.43**	**1.63**	**0.02**	**79.62**		**79.59**
Year 1		< 0.1 ha	725	160.94	0.22	0.04	0.22	0.01	0.18
Date 1		0.1 - 0.5 ha	765	499.39	0.65	0.33	1.11	0.22	0.78
Year 2	2010	0.5 - 1 ha	201	342.71	1.71	1.33	2.45	0.34	1.11
Date 2	0111	1 - 10 ha	201	1576.11	7.84	2.56	24.69	5.38	22.13
		10 - 20 ha	10	309.35	30.94	25.80	37.14	4.34	11.34
		> 20 ha	6	379.85	63.31	51.60	76.73	11.88	25.13
		Total	**1908**	**3268.35**	**1.71**	**0.04**	**76.73**		**76.69**
Year 1		< 0.1 ha	1333	295.76	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	1601	1065.08	0.67	0.36	1.22	0.23	0.87
Year 2	2010	0.5 - 1 ha	377	658.26	1.75	1.33	2.45	0.38	1.11
Date 2	0620	1 - 10 ha	342	2474.98	7.24	2.56	24.69	5.20	22.13
		10 - 20 ha	23	737.13	32.05	24.91	41.81	4.99	16.90
		> 20 ha	10	850.10	85.01	63.83	107.42	15.05	43.59
		Total	**3686**	**6081.31**	**1.65**	**0.02**	**107.42**		**107.39**
Year 1		< 0.1 ha	1499	332.53	0.22	0.03	0.22	0.01	0.19
Date 1		0.1 - 0.5 ha	1839	1219.14	0.66	0.28	1.22	0.23	0.94
Year 2	2010	0.5 - 1 ha	447	770.85	1.72	1.31	2.45	0.38	1.14
Date 2	0807	1 - 10 ha	345	2447.58	7.09	2.56	24.46	5.15	21.91
		10 - 20 ha	22	718.97	32.68	24.91	49.37	6.90	24.46
		> 20 ha	10	797.27	79.73	50.55	127.88	22.71	77.32
		Total	**4162**	**6286.34**	**1.51**	**0.03**	**127.88**		**127.85**

Wise County		Summary statistics for Water Features in Acres							
		Category	Count	Sum	Mean	Minimum	Maximum	Std Dev	Range
Year 1		< 0.1 ha	1193	264.66	0.22	0.02	0.22	0.01	0.20
Date 1		0.1 - 0.5 ha	1337	875.44	0.65	0.25	1.22	0.23	0.97
Year 2	2010	0.5 - 1 ha	367	626.68	1.71	1.33	2.45	0.37	1.11
Date 2	1010	1 - 10 ha	302	2225.59	7.37	2.56	24.69	5.23	22.13
		10 - 20 ha	21	684.53	32.60	25.58	43.48	4.90	17.90
		> 20 ha	8	585.57	73.20	54.04	93.63	14.93	39.59
		Total	**3228**	**5262.47**	**1.63**	**0.02**	**93.63**		**93.61**
Year 1	2010	< 0.1 ha	1156	256.50	0.22	0.01	0.22	0.01	0.22
Date 1	1118	0.1 - 0.5 ha	1593	1066.36	0.67	0.44	1.22	0.23	0.78
Year 2	2010	0.5 - 1 ha	350	612.18	1.75	1.33	2.45	0.37	1.12
Date 2	1127	1 - 10 ha	284	2107.32	7.42	2.56	24.24	5.14	21.68
		10 - 20 ha	24	795.06	33.13	25.35	46.48	6.42	21.13
		> 20 ha	8	622.15	77.77	51.37	111.86	20.63	60.49
		Total	**3415**	**5459.57**	**1.60**	**0.01**	**111.86**		**111.86**
Year 1		< 0.1 ha	518	114.95	0.22	0.08	0.22	0.01	0.14
Date 1		0.1 - 0.5 ha	586	384.74	0.66	0.44	1.22	0.23	0.78
Year 2	2010	0.5 - 1 ha	165	290.63	1.76	1.33	2.45	0.36	1.11
Date 2	1213	1 - 10 ha	196	1591.93	8.12	2.67	24.46	5.30	21.79
		10 - 20 ha	12	393.31	32.78	25.35	48.70	7.27	23.35
		> 20 ha	5	375.67	75.13	57.60	94.90	13.34	37.30
		Total	**1482**	**3151.22**	**2.13**	**0.08**	**94.90**		**94.82**