



City of Lawrence
UTILITIES

SURVEY REPORT: RURAL WATER DISTRICTS 2007 WATER DEMAND

2007 Rural Water District Survey

Table 1. Limits on meters and comparison of gallons per day usage.

Rural Water District (meter limits for 2007)	Total Meters In Service 2007	Meters Installed (2007)	Meters on Waiting List	Meter Requests in 2008 (estimated)	Maximum Day Usage /Maximum Day per contract	Contract Date/Term
RWD No. 1 (no limits)	376	3	0	4	200,000 gpd (180,000 gpd)	December 15, 1977/ 40 years
RWD No. 2 (511 meters)	453	8	23	4 to 8	264,000 gpd/ (286,000 gpd)	June 8, 1999/ December 31, 2013
RWD No. 4 (874 meters)	1040	22	0	25	424,000 gpd/** (300,000 gpd)	August 19, 1975/ 40 years
RWD No. 5 (1135 meters)	1131	79	58*** 2008-2009	20-25 approx.	384,000 gpd/ (522,500 gpd)	December 21, 1998/ December 31, 2013
RWD No. 6 (300 meters)	225	1	0	Unknown***	Unknown*** (202,500 gpd)	May 31, 1979/ 40 years
RWD No. 13 (n/a)	912	16	No waiting list	Requires feasibility study****	(8,000 gpd during an emergency)****	Each Year on December 31 at 11:59 p.m.****
TOTALS	4137	129				

Maximum Day Water Demand

- **** RWD No. 4 receives water supply and meters from another source but did not indicate in their survey how many of the 1040 meters were from the City of Lawrence. In addition "maximum day" water demand was from all sources.
- ***** RWD No. 5 states that 58 meters have been approved to be installed for 2008 and 2009.
- ***** RWD No. 6 responded that meter requests for 2008 were "unknown". They go on to state they do not have the technology to provide a maximum day water demand.
- ****** RWD No. 13 states they require feasibility studies be done by their engineering firm prior to approval.
 GPD – not to exceed 200 gallons per minute and a total of 8,000 gallons during any emergency and a monthly maximum of 50,000 gallons for maintenance and testing purposes.
 Annual review of agreement states the agreement will expire each year on December 31, at 11:59 p.m. unless the parties have previously agreed to renew the contract for the following calendar year.

Table 2. Usage from Utility Billing records and usage reported by Districts

	Annual Usage from Meter Records - 2007	Calculated Average Day Use for 2007	Rural Water District Reported Average Day
RWD No. 1	44,665,700 gallons	119,747 gpd 373 days	100,000 gpd
RWD No. 2	37,433,200 gallons	105,178 gpd 356 days	116,178 gpd
RWD No. 4	54,158,200 gallons	148,379 gpd 365 days	251,674 gpd
RWD No. 5	66,353,500 gallons	179,820 gpd 369 days	214,000 gpd
RWD No. 6	19,572,200 gallons	49,929 gpd 392 days	52,000 gpd
RWD No. 13	25,200 gallons	64 gpd 392 days	405,000 gpd

The usage is gathered from Utility Billing records. Due to meters not read the same day every month, the total reading days may vary from 363 days to 392 days. Some districts have more than one meter or have meters with two dials. Therefore, the calculated average day use may be a combined total for those meters.

Attachment – 2007 Water Production Report

Attachment
2007 Water Production Report
Lawrence, Kansas

Date	Kaw		Kaw		%		Clinton		Clinton		%		Total		Total		Total	
	Raw Pumped	Finished Pumped	Raw Pumped	Finished Pumped	Loss		Raw Pumped	Finished Pumped	Raw Pumped	Finished Pumped	Loss		Raw Pumped	Finished Pumped	Raw Pumped	Finished Pumped	% Loss	
Jan-07	136,750,000	128,654,000			5.92%		132,895,000	121,425,000			8.63%		269,645,000	250,079,000			7.26%	
Feb-07	113,661,000	103,829,000			8.65%		158,926,000	142,492,000			10.34%		272,587,000	246,321,000			9.64%	
Mar-07	133,651,000	122,721,000			8.18%		149,646,000	135,963,000			9.14%		283,297,000	258,684,000			8.69%	
Apr-07	126,399,000	115,574,000			8.56%		168,460,000	153,138,000			9.10%		294,859,000	268,712,000			8.87%	
May-07	149,186,000	136,839,000			8.28%		190,684,000	176,903,000			7.23%		339,870,000	313,742,000			7.69%	
Jun-07	179,681,000	169,407,000			5.72%		209,164,000	191,424,000			8.48%		388,845,000	360,831,000			7.20%	
Jul-07	297,827,000	287,815,000			3.36%		203,672,000	188,791,000			7.31%		501,499,000	476,606,000			4.96%	
Aug-07	392,237,000	380,302,000			3.04%		246,589,000	225,772,000			8.44%		638,826,000	606,074,000			5.13%	
Sep-07	298,994,000	293,116,000			1.97%		193,309,000	180,196,000			6.78%		492,303,000	473,312,000			3.86%	
Oct-07	184,520,000	179,519,000			2.71%		176,727,000	160,661,000			9.09%		361,247,000	340,180,000			5.83%	
Nov-07	148,345,000	142,100,000			4.21%		158,702,000	146,011,000			8.00%		307,047,000	288,111,000			6.17%	
Dec-07	126,081,000	118,083,000			6.34%		164,610,000	149,393,000			9.24%		290,691,000	267,476,000			7.99%	
Total	2,287,332,000	2,177,959,000			4.78%		2,153,384,000	1,972,169,000			8.42%		4,440,716,000	4,150,128,000			6.54%	
Yearly Comparisons																		
Monthly																		
Cumulative																		
Date	2007Total	2006Total	2005Total	2004Total	2007 Total		2006 Total		2005 Total		2004 Total		2007 Total		2006 Total		2004 Total	
	Finish Pumped	Finish Pumped	Finish Pumped	Finish Pumped	Finish Pumped		Finish Pumped		Finish Pumped		Finish Pumped		Finish Pumped		Finish Pumped		Finish Pumped	
Jan-07	250,079,000	270,905,000	265,148,000	291,827,000			250,079,000		270,905,000		265,148,000		250,079,000		270,905,000		291,827,000	
Feb-07	246,321,000	248,248,000	247,699,000	292,058,000			496,400,000		519,153,000		512,847,000		496,400,000		519,153,000		583,885,000	
Mar-07	258,684,000	268,860,000	273,842,000	293,926,000			755,084,000		788,013,000		786,689,000		755,084,000		788,013,000		877,811,000	
Apr-07	268,712,000	340,624,000	333,092,000	340,603,000			1,023,796,000		1,128,637,000		1,119,781,000		1,023,796,000		1,128,637,000		1,218,414,000	
May-07	313,742,000	371,717,000	430,039,000	359,544,000			1,337,538,000		1,500,354,000		1,549,820,000		1,337,538,000		1,500,354,000		1,577,958,000	
Jun-07	360,831,000	547,358,000	410,885,000	357,369,000			1,698,369,000		2,047,712,000		1,960,705,000		1,698,369,000		2,047,712,000		1,935,327,000	
Jul-07	476,606,000	563,611,000	510,722,000	358,370,000			2,174,975,000		2,611,323,000		2,471,427,000		2,174,975,000		2,611,323,000		2,293,697,000	
Aug-07	606,074,000	524,084,000	462,173,000	399,563,000			2,781,049,000		3,135,407,000		2,933,600,000		2,781,049,000		3,135,407,000		2,693,260,000	
Sep-07	473,312,000	426,079,000	391,118,000	413,119,000			3,254,361,000		3,561,486,000		3,324,718,000		3,254,361,000		3,561,486,000		3,106,379,000	
Oct-07	340,180,000	364,121,000	353,182,000	338,281,000			3,594,541,000		3,925,607,000		3,677,900,000		3,594,541,000		3,925,607,000		3,444,660,000	
Nov-07	288,111,000	271,303,000	288,178,000	264,567,000			3,882,652,000		4,196,910,000		3,966,078,000		3,882,652,000		4,196,910,000		3,709,227,000	
Dec-07	267,476,000	249,977,000	274,365,000	261,529,000			4,150,128,000		4,446,887,000		4,240,443,000		4,150,128,000		4,446,887,000		3,970,756,000	
Total	4,150,128,000	4,446,887,000	4,240,443,000	3,970,756,000			4,150,128,000		4,446,887,000		4,240,443,000		4,150,128,000		4,446,887,000		3,970,756,000	