

# Kansas Irrigation Water Use 2008



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**Table 1**  
**SELECTED WATER USE STATISTICS BY REGIONAL LOCATION**  
**KANSAS, 2004-2008**

Regional Location	2008					Acre-feet per acre (AF/A)					
	Total Number of Pd's <sup>a/</sup>	Water Use (AF) <sup>b/</sup>	Acres Irrigated	Use above Regional Standard (AF)	Percent Above Regional Standard	2004	2005	2006	2007	2008	Average
<b>Western Kansas</b>											
Western KS GMD No. 1	2,520	210,353	212,548	2,063	0.98	0.92	0.86	0.99	0.89	0.99	0.93
Southwest KS GMD No. 3	9,831	1,930,536	1,477,020	31,747	1.64	1.12	1.03	1.27	1.16	1.31	1.18
Northwest KS GMD No. 4	3,458	399,724	379,192	1,365	0.34	1.22	1.02	1.12	1.09	1.05	1.10
Remainder of Western KS	2,216	99,576	104,330	922	0.93	1.09	0.96	1.05	0.95	0.95	1.00
<b>Central Kansas</b>											
Equus Beds GMD No. 2	1,709	83,759	128,542	279	0.33	0.68	0.84	1.02	0.79	0.65	0.80
Big Bend GMD No. 5	4,463	426,175	452,235	2,027	0.48	0.88	1.02	1.11	0.86	0.94	0.96
Remainder of Central KS	5,068	113,440	219,579	825	0.73	0.65	0.73	0.83	0.66	0.52	0.68
<b>Eastern Kansas</b>											
All Eastern Kansas	1,450	19,225	64,694	519	2.70	0.31	0.46	0.54	0.43	0.30	0.41
<b>State Total</b>	<b>30,715</b>	<b>3,282,787</b>	<b>3,038,140</b>	<b>39,747</b>	<b>1.21</b>	<b>1.01</b>	<b>0.97</b>	<b>1.14</b>	<b>1.01</b>	<b>1.08</b>	<b>1.04</b>

<sup>a/</sup> Total number of active points of diversion includes those that were not used in 2008.

<sup>b/</sup> Water use does not include approximately 118,122 acre-feet of surface water withdrawn in 2008 under ditch irrigation water rights in southwest Kansas and by irrigation districts in north-central Kansas. These amounts are not included in any of the tables.

**Table 2**  
**IRRIGATION WATER USE, ACRES IRRIGATED, AND AVERAGE APPLICATION RATE**  
**BY COUNTY, KANSAS, 2004-2008**

County	2008		Average acre-foot per acre (AF/A)					
	Water Use (AF)	Acres Irrigated	2004	2005	2006	2007	2008	Average
Allen	14	105	0.00	0.16	0.38	0.00	0.13	0.13
Anderson	392	1,826	0.45	0.44	0.49	0.57	0.21	0.43
Atchison	51	311	0.00	0.19	0.47	0.42	0.17	0.25
Barber	3,649	4,540	0.69	0.95	1.15	0.79	0.80	0.88
Barton	23,786	34,825	0.73	0.97	1.01	0.87	0.68	0.85
Bourbon	0	118	0.24	0.28	0.17	0.13	0.00	0.16
Brown	406	997	1.08	0.36	0.40	0.42	0.41	0.53
Butler	714	1,541	0.70	0.51	0.56	0.35	0.46	0.52
Chase	4	11	0.14	0.11	0.85	1.10	0.34	0.51
Chautauqua	0	0	0.00	0.00	0.16	0.00	0.00	0.03
Cherokee	40	308	0.38	1.03	0.48	0.16	0.13	0.44
Cheyenne	56,365	46,138	1.17	1.06	1.23	1.26	1.22	1.19
Clark	4,586	4,945	1.20	0.87	1.26	1.09	0.93	1.07
Clay	10,823	22,910	0.61	0.59	0.72	0.66	0.47	0.61
Cloud	8,594	21,669	0.57	0.61	0.70	0.57	0.40	0.57
Coffey	73	381	0.29	0.26	0.53	0.32	0.19	0.32
Comanche	6,863	6,806	1.03	1.04	1.22	1.06	1.01	1.07
Cowley	1,104	2,517	0.33	0.55	0.66	0.36	0.44	0.47
Crawford	389	2,062	0.36	0.26	0.30	0.28	0.19	0.28
Decatur	10,696	10,976	1.16	0.96	1.09	0.99	0.97	1.03
Dickinson	2,385	4,610	0.54	0.72	0.81	0.70	0.52	0.66
Doniphan	85	531	0.14	0.21	0.25	0.29	0.16	0.21
Douglas	747	1,859	0.22	0.50	0.69	0.48	0.40	0.46
Edwards	107,588	98,213	0.97	1.05	1.17	0.92	1.10	1.04
Elk	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Ellis	1,144	1,670	0.77	0.91	0.99	0.62	0.69	0.80
Ellsworth	85	455	0.61	1.02	0.96	0.47	0.19	0.65
Finney	298,633	224,523	1.16	1.13	1.33	1.18	1.33	1.23
Ford	97,410	85,987	1.00	0.97	1.14	0.95	1.13	1.04
Franklin	552	798	0.25	0.35	0.76	0.68	0.69	0.55
Geary	1,758	4,174	0.41	0.56	0.76	0.47	0.42	0.52
Gove	17,597	20,954	0.96	0.89	0.93	0.84	0.84	0.89
Graham	9,144	13,264	1.04	0.87	0.94	0.83	0.69	0.87
Grant	136,862	104,305	1.10	0.91	1.25	1.11	1.31	1.14
Gray	216,355	179,133	1.18	1.09	1.25	1.10	1.21	1.17
Greeley	23,685	23,762	0.85	0.82	1.01	0.98	1.00	0.93
Greenwood	15	15	0.70	1.04	0.82	0.69	1.00	0.85
Hamilton	39,253	31,343	1.18	1.06	1.25	1.17	1.25	1.18
Harper	920	1,545	0.59	0.78	1.10	0.71	0.60	0.76
Harvey	23,046	34,464	0.69	0.83	1.02	0.79	0.67	0.80
Haskell	222,738	188,463	1.05	0.91	1.19	1.06	1.18	1.08
Hodgeman	24,101	25,099	1.06	0.98	1.00	0.81	0.96	0.96
Jackson	106	295	0.28	0.31	0.38	0.41	0.36	0.35
Jefferson	1,588	4,647	0.17	0.48	0.58	0.51	0.34	0.42
Jewell	1,044	3,480	0.53	0.69	0.68	0.49	0.30	0.54
Johnson	2,559	4,849	0.64	0.81	0.81	0.76	0.53	0.71
Kearny	155,853	98,966	1.32	1.26	1.48	1.41	1.57	1.41
Kingman	12,071	15,524	0.77	1.09	1.09	0.95	0.78	0.94

**Table 2**  
**IRRIGATION WATER USE, ACRES IRRIGATED, AND AVERAGE APPLICATION RATE**  
**BY COUNTY, KANSAS, 2004-2008**

County	2008		Average acre-foot per acre (AF/A)					
	Water Use (AF)	Acres Irrigated	2004	2005	2006	2007	2008	Average
Kiowa	61,228	53,260	1.14	1.06	1.25	1.01	1.15	1.12
Labette	72	669	0.24	0.38	0.23	0.22	0.11	0.24
Lane	17,822	17,662	0.99	0.85	1.02	0.75	1.01	0.92
Leavenworth	429	1,346	0.36	0.45	0.47	0.54	0.32	0.43
Lincoln	70	602	0.32	0.39	0.59	0.25	0.12	0.33
Linn	99	193	1.34	0.66	0.94	0.55	0.51	0.80
Logan	7,729	8,522	1.07	0.86	0.91	0.87	0.91	0.92
Lyon	20	72	0.19	0.27	0.30	0.49	0.27	0.30
Marion	863	2,186	0.48	0.63	0.73	0.55	0.39	0.56
Marshall	981	2,564	0.60	0.61	0.60	0.53	0.38	0.54
McPherson	19,980	34,519	0.64	0.77	0.99	0.67	0.58	0.73
Meade	177,289	125,311	1.08	1.10	1.40	1.31	1.41	1.26
Miami	84	468	0.40	0.69	0.40	0.33	0.18	0.40
Mitchell	3,136	5,860	0.55	0.61	0.92	0.72	0.54	0.67
Montgomery	173	847	0.23	0.20	0.25	0.26	0.20	0.23
Morris	152	328	0.03	0.27	0.74	0.33	0.46	0.37
Morton	53,399	46,556	0.90	0.74	0.90	0.91	1.15	0.92
Nemaha	37	28	1.06	0.38	0.23	0.20	1.34	0.64
Neosho	28	40	0.62	0.46	0.61	0.69	0.71	0.62
Ness	3,426	3,595	0.94	0.94	1.05	0.65	0.95	0.91
Norton	8,879	10,875	1.21	0.82	0.97	0.88	0.82	0.94
Osage	44	326	0.37	0.27	0.41	0.25	0.14	0.29
Osborne	1,721	2,983	0.82	0.71	0.86	0.70	0.58	0.73
Ottawa	1,314	4,102	0.51	0.57	0.52	0.57	0.32	0.50
Pawnee	57,985	74,329	0.80	0.96	0.94	0.74	0.78	0.84
Phillips	5,320	7,310	0.98	0.79	0.85	0.69	0.73	0.81
Pottawatomie	3,078	14,236	0.26	0.46	0.55	0.34	0.22	0.37
Pratt	86,910	85,053	0.84	1.00	1.09	0.79	1.02	0.95
Rawlins	16,208	18,141	1.08	0.98	1.02	0.90	0.89	0.97
Reno	37,551	53,605	0.72	0.93	1.07	0.88	0.70	0.86
Republic	13,669	29,315	0.72	0.75	0.75	0.69	0.47	0.68
Rice	13,747	22,515	0.80	0.99	1.13	0.75	0.61	0.86
Riley	1,028	4,670	0.33	0.59	0.64	0.39	0.22	0.43
Rooks	561	1,553	0.88	0.68	0.80	0.41	0.36	0.63
Rush	5,938	9,904	0.56	0.76	0.88	0.72	0.60	0.70
Russell	23	161	0.46	0.06	0.57	10.55	0.15	2.36
Saline	1,357	3,495	0.69	0.75	0.76	0.66	0.39	0.65
Scott	52,111	52,943	0.95	0.89	0.96	0.88	0.98	0.93
Sedgwick	24,632	41,051	0.67	0.83	0.97	0.75	0.60	0.76
Seward	179,038	126,980	1.09	1.11	1.32	1.28	1.41	1.24
Shawnee	5,064	15,953	0.22	0.42	0.52	0.42	0.32	0.38
Sheridan	76,238	78,186	1.23	1.04	1.05	1.05	0.98	1.07
Sherman	130,232	113,561	1.25	1.03	1.13	1.15	1.15	1.14
Smith	989	2,562	0.83	0.58	0.75	0.46	0.39	0.60
Stafford	73,232	82,024	0.83	1.02	1.14	0.89	0.89	0.95
Stanton	131,621	110,098	1.06	0.79	1.20	1.06	1.20	1.06
Stevens	246,431	174,195	1.15	1.06	1.30	1.21	1.41	1.23
Sumner	3,131	9,683	0.51	0.73	0.86	0.56	0.32	0.60

**Table 2**  
**IRRIGATION WATER USE, ACRES IRRIGATED, AND AVERAGE APPLICATION RATE**  
**BY COUNTY, KANSAS, 2004-2008**

County	2008		Average acre-foot per acre (AF/A)					
	Water Use (AF)	Acres Irrigated	2004	2005	2006	2007	2008	Average
Thomas	99,682	98,708	1.24	1.01	1.20	1.05	1.01	1.10
Trego	4,581	5,534	1.16	1.03	1.05	1.02	0.83	1.02
Wabaunsee	1,634	7,940	0.24	0.46	0.54	0.34	0.21	0.36
Wallace	56,649	55,106	0.99	1.01	1.08	1.01	1.03	1.02
Washington	3,258	10,332	0.48	0.50	0.62	0.45	0.32	0.47
Wichita	65,577	69,259	0.87	0.76	0.93	0.81	0.95	0.86
Wilson	95	290	0.39	0.32	0.39	0.32	0.33	0.35
Woodson	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Wyandotte	368	620	0.66	0.74	0.92	0.75	0.59	0.73
<b>Total</b>	<b>3,282,787</b>	<b>3,038,140</b>	<b>1.01</b>	<b>0.97</b>	<b>1.14</b>	<b>1.01</b>	<b>1.08</b>	<b>1.04</b>

**TABLE 3  
COMPARISON OF WATER USE AND ACRES IRRIGATED BY METER STATUS AND REGIONAL LOCATION  
KANSAS, 2008**

Regional Location	Metered				Not Metered				Combined <sup>a/</sup>	Total No. of Pd's	Percent Metered <sup>b/</sup>
	No. of Pd's	Water Use (AF)	Acres Irrigated	AF/A	No. of Pd's	Water Use (AF)	Acres Irrigated	AF/A	No. of Pd's		
<b>Western Kansas</b>											
Western KS GMD No. 1	1,067	139,616	137,597	1.01	651	70,737	74,951	0.94	19	1,737	62
Southwest KS GMD No. 3	7,769	1,888,577	1,440,457	1.31	216	41,959	36,563	1.15	186	8,171	97
Northwest KS GMD No. 4	2,661	344,154	330,852	1.04	371	55,570	48,340	1.15	88	3,120	88
Remainder of Western KS	1,154	89,665	96,516	0.93	111	9,911	7,806	1.27	273	1,538	91
<b>Central Kansas</b>											
Equus Beds GMD No. 2	932	59,873	96,461	0.62	344	23,886	32,081	0.74	269	1,545	73
Big Bend GMD No. 5	3,582	409,929	435,188	0.94	136	16,246	16,862	0.96	377	4,095	96
Remainder of Central KS	2,064	92,077	174,347	0.53	514	21,362	45,152	0.47	648	3,226	80
<b>Eastern Kansas</b>											
All Eastern Kansas	494	14,175	49,965	0.28	194	5,050	14,729	0.34	83	771	72
<b>State Total</b>	19,723	3,038,066	2,761,383	1.10	2,537	244,721	276,484	0.89	1,943	24,203	89

<sup>a/</sup> Water use and acres irrigated from combined points of diversion are included with either metered or not metered points of diversion.

<sup>b/</sup> Percent metered is the number of metered pd's divided by the total number of pd's excluding combined.

**TABLE 4**  
**WATER USE, ACRES IRRIGATED, AND AVERAGE APPLICATION RATE BY CROP AND REGIONAL LOCATION**  
**KANSAS, 2008**

Regional Location	Alfalfa			Corn			Grain Sorghum			Soybeans			Wheat			Other or Multiple Crops		
	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A
<b>Western Kansas</b>																		
GMD No. 1	2,586	1,812	1.43	63,819	52,663	1.21	1,628	2,406	0.68	359	326	1.10	3,311	5,713	0.58	138,650	149,628	0.93
GMD No. 3	175,552	101,992	1.72	627,595	406,636	1.54	13,127	15,068	0.87	31,604	24,225	1.30	60,492	68,343	0.89	1,022,167	860,756	1.19
GMD No. 4	5,951	5,785	1.03	244,347	199,653	1.22	897	1,824	0.49	10,286	11,726	0.88	6,493	11,316	0.57	131,749	148,888	0.88
Remainder	10,746	9,685	1.11	35,916	32,592	1.10	1,455	2,938	0.50	3,330	4,399	0.76	2,933	5,458	0.54	45,196	49,258	0.92
<b>Central Kansas</b>																		
GMD No. 2	719	1,188	0.61	29,832	41,275	0.72	638	1,471	0.43	20,532	33,143	0.62	278	776	0.36	31,761	50,689	0.63
GMD No. 5	23,755	28,327	0.84	205,335	195,703	1.05	6,850	8,713	0.79	70,503	74,495	0.95	3,792	7,511	0.50	115,941	137,486	0.84
Remainder	2,421	6,169	0.39	42,691	70,163	0.61	1,361	3,623	0.38	20,413	45,657	0.45	1,634	4,701	0.35	44,920	89,266	0.50
<b>Eastern Kansas</b>																		
All Eastern KS	97	457	0.21	7,195	25,609	0.28	23	190	0.12	3,760	14,163	0.27	0	0	0.00	8,149	24,275	0.34
<b>State Total</b>	<b>221,827</b>	<b>155,415</b>	<b>1.43</b>	<b>1,256,730</b>	<b>1,024,294</b>	<b>1.23</b>	<b>25,979</b>	<b>36,233</b>	<b>0.72</b>	<b>160,787</b>	<b>208,134</b>	<b>0.77</b>	<b>78,933</b>	<b>103,818</b>	<b>0.76</b>	<b>1,538,533</b>	<b>1,510,246</b>	<b>1.02</b>

**TABLE 5  
WATER USE, ACRES IRRIGATED, AND AVERAGE APPLICATION RATE BY CROP AND COUNTY  
KANSAS, 2008**

County	Alfalfa			Corn			Grain Sorghum			Soybeans			Wheat			Other or Multiple Crops		
	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A
Allen	0	0	0.00	14	105	0.13	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Anderson	0	0	0.00	104	461	0.23	0	0	0.00	8	130	0.06	0	0	0.00	280	1,235	0.23
Atchison	0	0	0.00	42	278	0.15	0	0	0.00	0	0	0.00	0	0	0.00	9	33	0.28
Barber	0	0	0.00	1,636	1,794	0.91	20	78	0.26	432	514	0.84	136	310	0.44	1,425	1,844	0.77
Barton	1,051	1,847	0.57	8,974	11,087	0.81	475	1,047	0.45	4,064	6,246	0.65	143	555	0.26	9,080	14,043	0.65
Bourbon	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	118	0.00
Brown	0	0	0.00	199	495	0.40	0	0	0.00	64	183	0.35	0	0	0.00	143	319	0.45
Butler	24	90	0.27	65	235	0.28	0	0	0.00	268	656	0.41	0	0	0.00	357	560	0.64
Chase	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	4	11	0.34
Chautauqua	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Cherokee	0	0	0.00	0	0	0.00	0	0	0.00	33	283	0.12	0	0	0.00	7	25	0.27
Cheyenne	2,134	1,706	1.25	34,219	23,968	1.43	89	120	0.74	1,039	809	1.28	1,600	2,559	0.63	17,284	16,976	1.02
Clark	716	550	1.30	920	648	1.42	0	0	0.00	105	92	1.14	0	0	0.00	2,845	3,655	0.78
Clay	0	0	0.00	3,506	6,708	0.52	0	0	0.00	2,156	4,869	0.44	0	0	0.00	5,161	11,333	0.46
Cloud	58	155	0.37	2,314	4,698	0.49	49	323	0.15	1,306	4,189	0.31	5	62	0.08	4,863	12,242	0.40
Coffey	0	0	0.00	38	140	0.27	0	0	0.00	4	30	0.12	0	0	0.00	31	211	0.15
Comanche	190	217	0.88	1,964	1,410	1.39	153	126	1.22	1,238	1,303	0.95	213	565	0.38	3,105	3,185	0.97
Cowley	0	0	0.00	544	953	0.57	0	0	0.00	377	988	0.38	0	0	0.00	183	576	0.32
Crawford	0	0	0.00	139	744	0.19	0	0	0.00	21	125	0.17	0	0	0.00	228	1,193	0.19
Decatur	1,224	1,241	0.99	6,581	6,307	1.04	179	193	0.93	485	499	0.97	81	329	0.25	2,146	2,407	0.89
Dickinson	0	0	0.00	813	1,229	0.66	16	128	0.12	450	912	0.49	0	0	0.00	1,107	2,341	0.47
Doniphan	0	0	0.00	81	520	0.15	0	0	0.00	0	0	0.00	0	0	0.00	4	11	0.36
Douglas	0	0	0.00	279	794	0.35	0	0	0.00	153	463	0.33	0	0	0.00	315	602	0.52
Edwards	8,681	8,369	1.04	54,924	46,701	1.18	1,751	1,869	0.94	18,830	16,721	1.13	1,765	2,198	0.80	21,637	22,355	0.97
Elk	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Ellis	270	300	0.90	340	454	0.75	130	213	0.61	38	117	0.32	28	45	0.62	338	541	0.62
Ellsworth	18	100	0.18	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	67	355	0.19
Finney	58,639	35,576	1.65	76,520	49,196	1.56	2,537	2,425	1.05	8,164	5,566	1.47	11,934	11,316	1.05	140,839	120,444	1.17
Ford	6,706	4,336	1.55	47,557	36,031	1.32	1,221	2,377	0.51	5,758	4,548	1.27	1,929	3,359	0.57	34,239	35,336	0.97
Franklin	0	0	0.00	112	496	0.23	0	0	0.00	0	0	0.00	0	0	0.00	441	302	1.46
Geary	0	0	0.00	384	844	0.46	0	0	0.00	316	1,091	0.29	0	0	0.00	1,057	2,239	0.47
Gove	506	485	1.04	9,789	9,802	1.00	343	621	0.55	329	617	0.53	213	393	0.54	6,417	9,036	0.71
Graham	369	876	0.42	5,594	6,929	0.81	71	483	0.15	996	1,551	0.64	89	295	0.30	2,026	3,130	0.65
Grant	3,401	2,347	1.45	28,467	16,451	1.73	13	160	0.08	0	0	0.00	4,948	7,241	0.68	100,034	78,106	1.28
Gray	33,120	20,409	1.62	84,479	55,199	1.53	3,296	4,197	0.79	7,030	5,355	1.31	9,417	14,057	0.67	79,014	79,916	0.99

**TABLE 5  
WATER USE, ACRES IRRIGATED, AND AVERAGE APPLICATION RATE BY CROP AND COUNTY  
KANSAS, 2008**

County	Alfalfa			Corn			Grain Sorghum			Soybeans			Wheat			Other or Multiple Crops		
	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A
Greeley	810	366	2.21	9,025	8,161	1.11	131	95	1.38	0	0	0.00	912	1,283	0.71	12,807	13,857	0.92
Greenwood	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	15	15	1.00
Hamilton	6,208	4,638	1.34	8,880	5,631	1.58	9	400	0.02	0	0	0.00	6,113	6,089	1.00	18,043	14,585	1.24
Harper	0	0	0.00	290	310	0.94	47	244	0.19	206	295	0.70	0	0	0.00	377	696	0.54
Harvey	205	194	1.06	5,392	7,400	0.73	106	278	0.38	6,220	9,574	0.65	159	552	0.29	10,965	16,466	0.67
Haskell	10,638	5,956	1.79	69,743	50,265	1.39	2,009	2,212	0.91	1,428	1,281	1.11	3,883	4,903	0.79	135,038	123,846	1.09
Hodgeman	319	280	1.14	10,462	8,051	1.30	493	744	0.66	236	331	0.71	286	929	0.31	12,303	14,764	0.83
Jackson	0	0	0.00	0	0	0.00	0	0	0.00	66	140	0.47	0	0	0.00	40	155	0.26
Jefferson	0	0	0.00	493	1,485	0.33	0	0	0.00	267	862	0.31	0	0	0.00	828	2,300	0.36
Jewell	18	136	0.13	518	1,632	0.32	2	70	0.03	161	583	0.28	0	0	0.00	345	1,059	0.33
Johnson	0	0	0.00	280	416	0.67	0	0	0.00	0	0	0.00	0	0	0.00	2,279	4,433	0.51
Kearny	48,433	24,423	1.98	43,732	26,398	1.66	1,815	1,199	1.51	1,676	1,525	1.10	7,239	5,736	1.26	52,958	39,685	1.33
Kingman	99	195	0.51	5,751	6,569	0.88	113	262	0.43	2,060	2,598	0.79	310	672	0.46	3,738	5,228	0.72
Kiowa	2,720	2,970	0.92	31,999	25,092	1.28	1,345	1,518	0.89	11,756	9,844	1.19	209	856	0.24	13,200	12,980	1.02
Labette	0	0	0.00	0	0	0.00	0	0	0.00	41	220	0.19	0	0	0.00	31	449	0.07
Lane	143	120	1.19	3,907	3,092	1.26	398	634	0.63	0	0	0.00	115	310	0.37	13,259	13,506	0.98
Leavenworth	0	0	0.00	138	483	0.28	14	60	0.23	119	485	0.24	0	0	0.00	158	318	0.50
Lincoln	0	0	0.00	0	0	0.00	0	0	0.00	21	172	0.12	11	120	0.09	39	310	0.12
Linn	0	0	0.00	29	108	0.27	0	0	0.00	0	0	0.00	0	0	0.00	70	85	0.82
Logan	39	63	0.62	3,468	3,201	1.08	0	0	0.00	0	0	0.00	149	147	1.01	4,073	5,111	0.80
Lyon	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	20	72	0.27
Marion	51	110	0.46	291	520	0.56	98	275	0.36	39	195	0.20	0	0	0.00	385	1,086	0.35
Marshall	0	0	0.00	547	1,308	0.42	0	0	0.00	158	482	0.33	0	0	0.00	276	774	0.36
McPherson	12	262	0.05	7,661	11,307	0.68	83	237	0.35	4,451	8,472	0.53	57	232	0.25	7,715	14,009	0.55
Meade	817	500	1.63	76,834	47,539	1.62	1,506	1,005	1.50	4,297	3,027	1.42	2,794	3,920	0.71	91,041	69,320	1.31
Miami	0	0	0.00	9	120	0.08	0	0	0.00	0	0	0.00	0	0	0.00	75	348	0.22
Mitchell	101	350	0.29	1,825	2,443	0.75	0	0	0.00	766	2,141	0.36	60	140	0.43	384	786	0.49
Montgomery	0	0	0.00	114	630	0.18	0	0	0.00	0	0	0.00	0	0	0.00	59	217	0.27
Morris	16	40	0.40	53	86	0.61	0	0	0.00	83	194	0.43	0	0	0.00	0	8	0.02
Morton	0	0	0.00	13,978	10,510	1.33	530	692	0.77	0	0	0.00	3,934	4,295	0.92	34,957	31,059	1.13
Nemaha	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	37	28	1.34
Neosho	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	28	40	0.71
Ness	0	0	0.00	628	512	1.23	158	259	0.61	0	0	0.00	55	122	0.45	2,585	2,702	0.96
Norton	298	443	0.67	3,783	4,283	0.88	63	65	0.97	1,335	1,775	0.75	33	75	0.44	3,366	4,234	0.80
Osage	0	0	0.00	0	0	0.00	9	130	0.07	13	104	0.13	0	0	0.00	22	92	0.24
Osborne	94	233	0.40	617	939	0.66	53	115	0.46	317	545	0.58	0	0	0.00	640	1,151	0.56

**TABLE 5  
WATER USE, ACRES IRRIGATED, AND AVERAGE APPLICATION RATE BY CROP AND COUNTY  
KANSAS, 2008**

County	Alfalfa			Corn			Grain Sorghum			Soybeans			Wheat			Other or Multiple Crops		
	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A
Ottawa	56	215	0.26	150	509	0.29	49	155	0.31	463	1,208	0.38	96	131	0.73	501	1,884	0.27
Pawnee	5,508	7,859	0.70	19,090	21,914	0.87	377	750	0.50	8,182	10,304	0.79	875	2,299	0.38	23,953	31,203	0.77
Phillips	50	150	0.33	2,756	3,285	0.84	0	0	0.00	549	857	0.64	8	7	1.14	1,958	3,011	0.65
Pottawatomie	37	195	0.19	1,232	5,217	0.24	0	0	0.00	842	3,691	0.23	0	0	0.00	968	5,133	0.19
Pratt	4,152	4,576	0.91	47,636	43,302	1.10	1,841	1,925	0.96	11,025	10,884	1.01	219	394	0.56	22,036	23,972	0.92
Rawlins	1,228	1,766	0.70	8,512	7,758	1.10	50	125	0.40	297	315	0.94	484	948	0.51	5,638	7,229	0.78
Reno	324	625	0.52	16,406	20,686	0.79	887	1,605	0.55	8,529	12,223	0.70	428	635	0.67	10,976	17,831	0.62
Republic	511	1,520	0.34	5,943	11,479	0.52	60	97	0.62	1,852	4,896	0.38	42	95	0.44	5,260	11,228	0.47
Rice	152	292	0.52	6,580	9,233	0.71	99	275	0.36	3,732	6,445	0.58	0	0	0.00	3,183	6,270	0.51
Riley	14	130	0.11	285	1,500	0.19	0	0	0.00	177	1,024	0.17	0	0	0.00	553	2,016	0.27
Rooks	181	591	0.31	165	434	0.38	0	0	0.00	55	117	0.47	0	0	0.00	160	411	0.39
Rush	163	281	0.58	1,841	2,288	0.80	205	558	0.37	641	1,415	0.45	117	125	0.94	2,970	5,237	0.57
Russell	20	120	0.17	0	15	0.00	0	0	0.00	0	0	0.00	0	0	0.00	3	26	0.12
Saline	84	180	0.47	168	343	0.49	31	130	0.24	305	945	0.32	0	0	0.00	769	1,897	0.41
Scott	610	445	1.37	11,653	9,820	1.19	740	1,152	0.64	199	246	0.81	127	448	0.28	38,783	40,832	0.95
Sedgwick	362	529	0.69	8,796	14,709	0.60	210	394	0.53	6,215	10,733	0.58	45	570	0.08	9,003	14,116	0.64
Seward	9,323	5,389	1.73	56,166	33,151	1.69	0	0	0.00	2,926	2,675	1.09	2,883	2,857	1.01	107,740	82,908	1.30
Shawnee	51	196	0.26	2,431	7,212	0.34	0	0	0.00	1,256	4,395	0.29	0	0	0.00	1,325	4,150	0.32
Sheridan	644	885	0.73	47,757	44,347	1.08	300	429	0.70	3,419	3,817	0.90	504	810	0.62	23,613	27,898	0.85
Sherman	2,272	2,045	1.11	79,726	59,483	1.34	259	512	0.51	1,221	1,093	1.12	2,193	4,061	0.54	44,561	46,367	0.96
Smith	53	116	0.46	349	921	0.38	62	206	0.30	62	214	0.29	29	110	0.26	434	995	0.44
Stafford	1,656	2,932	0.56	34,859	36,181	0.96	567	804	0.71	12,509	13,712	0.91	508	1,226	0.41	23,132	27,169	0.85
Stanton	729	345	2.11	31,019	18,574	1.67	196	763	0.26	0	0	0.00	2,677	3,110	0.86	97,001	87,306	1.11
Stevens	2,855	1,665	1.71	96,087	61,424	1.56	9	48	0.19	325	248	1.31	4,391	3,690	1.19	142,764	107,120	1.33
Sumner	0	0	0.00	1,214	3,383	0.36	0	0	0.00	1,144	3,599	0.32	186	808	0.23	586	1,893	0.31
Thomas	1,100	828	1.33	60,068	50,170	1.20	150	322	0.47	3,452	4,431	0.78	1,516	2,446	0.62	33,397	40,511	0.82
Trego	489	623	0.79	1,313	1,526	0.86	68	188	0.36	702	795	0.88	163	327	0.50	1,845	2,075	0.89
Wabaunsee	9	66	0.13	836	4,309	0.19	0	0	0.00	495	2,148	0.23	0	0	0.00	294	1,417	0.21
Wallace	129	157	0.82	31,267	25,180	1.24	31	120	0.26	0	0	0.00	1,878	3,008	0.62	23,344	26,641	0.88
Washington	0	0	0.00	1,757	4,548	0.39	21	125	0.17	453	2,500	0.18	53	281	0.19	974	2,878	0.34
Wichita	938	811	1.16	9,544	7,937	1.20	441	696	0.63	160	80	2.00	690	1,767	0.39	53,805	57,968	0.93
Wilson	0	0	0.00	44	100	0.44	0	0	0.00	51	190	0.27	0	0	0.00	0	0	0.00
Woodson	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Wyandotte	0	0	0.00	34	188	0.18	0	0	0.00	168	232	0.72	0	0	0.00	167	200	0.83
<b>State Total</b>	<b>221,826</b>	<b>155,415</b>	<b>1.43</b>	<b>1,256,730</b>	<b>1,024,294</b>	<b>1.23</b>	<b>25,979</b>	<b>36,233</b>	<b>0.72</b>	<b>160,787</b>	<b>208,134</b>	<b>0.77</b>	<b>78,932</b>	<b>103,818</b>	<b>0.76</b>	<b>1,538,533</b>	<b>1,510,246</b>	<b>1.02</b>

**TABLE 6**  
**ESTIMATED NUMBER OF ACRES IRRIGATED BY CROP AND REGIONAL LOCATION <sup>a/</sup>**  
**KANSAS, 2008**

Regional Location	Alfalfa	Corn	Grain Sorghum	Soybeans	Wheat	Other or Multiple Crops	Total
<b>Western Kansas</b>							
GMD No. 1	4,095	119,450	8,163	4,209	69,725	6,906	212,548
GMD No. 3	145,764	716,515	90,532	82,884	388,470	52,855	1,477,020
GMD No. 4	10,320	255,076	5,756	33,245	48,767	26,028	379,192
Remainder	17,325	44,933	8,144	9,229	17,270	7,430	104,330
<b>Central Kansas</b>							
GMD No. 2	2,625	57,938	3,964	52,392	7,651	3,973	128,542
GMD No. 5	34,623	231,308	20,248	108,274	45,099	12,683	452,235
Remainder	9,603	102,787	7,032	78,195	12,832	9,130	219,579
<b>Eastern Kansas</b>							
All Eastern KS	752	33,270	312	21,599	328	8,433	64,694
<b>State Total</b>	225,108	1,561,276	144,150	390,027	590,143	127,437	3,038,140

<sup>a/</sup> The estimated number of acres of each type of crop was determined by adding single-crop acreages to prorated multiple-crop acreages. Figures may not add to totals due to independent rounding.

**TABLE 7**  
**ESTIMATED NUMBER OF ACRES IRRIGATED BY CROP AND COUNTY <sup>a/</sup>**  
**KANSAS, 2008**

<b>County</b>	<b>Alfalfa</b>	<b>Corn</b>	<b>Grain Sorghum</b>	<b>Soybeans</b>	<b>Wheat</b>	<b>Other or Multiple Crops</b>	<b>Total</b>
Allen	0	105	0	0	0	0	105
Anderson	0	1,049	0	718	0	60	1,826
Atchison	0	278	0	0	0	33	311
Barber	0	2,713	78	514	1,229	7	4,540
Barton	2,373	15,262	2,668	10,346	3,461	715	34,825
Bourbon	0	0	0	0	0	118	118
Brown	0	593	0	281	98	24	997
Butler	90	300	0	721	0	431	1,541
Chase	0	0	0	0	0	11	11
Chautauqua	0	0	0	0	0	0	0
Cherokee	0	0	0	283	0	25	308
Cheyenne	3,631	29,267	120	2,419	6,319	4,382	46,138
Clark	1,266	1,505	422	338	1,005	409	4,945
Clay	711	11,769	0	9,422	869	139	22,910
Cloud	534	10,327	647	9,578	381	202	21,669
Coffey	0	238	0	128	0	15	381
Comanche	1,015	1,995	126	1,606	1,081	982	6,806
Cowley	0	1,063	0	1,098	42	315	2,517
Crawford	0	1,231	0	677	65	90	2,062
Decatur	2,210	7,019	193	579	506	469	10,976
Dickinson	61	2,016	411	1,882	150	90	4,610
Doniphan	0	520	0	0	0	11	531
Douglas	0	952	0	656	55	195	1,859
Edwards	10,491	52,942	3,993	21,426	7,950	1,412	98,213
Elk	0	0	0	0	0	0	0
Ellis	300	600	296	263	45	167	1,670
Ellsworth	100	0	115	63	178	0	455
Finney	44,550	91,902	5,705	12,465	58,976	10,926	224,523
Ford	5,631	47,658	8,905	7,992	14,089	1,712	85,987
Franklin	80	607	31	0	0	80	798
Geary	43	1,726	43	1,998	69	295	4,174
Gove	556	13,163	1,705	1,412	2,758	1,359	20,954
Graham	975	7,843	667	2,371	1,143	265	13,264
Grant	6,737	43,358	7,709	328	41,807	4,366	104,305
Gray	23,266	84,996	7,901	11,313	46,284	5,373	179,133
Greeley	656	14,735	95	0	7,577	700	23,762
Greenwood	0	0	0	0	0	15	15
Hamilton	7,949	7,339	2,124	305	10,938	2,687	31,343
Harper	96	530	244	414	197	65	1,545
Harvey	541	13,581	1,208	16,112	2,456	567	34,464
Haskell	11,761	92,032	18,049	11,878	47,811	6,932	188,463
Hodgeman	1,567	13,334	2,062	1,795	5,186	1,156	25,099
Jackson	0	60	0	200	0	35	295
Jefferson	98	2,452	91	1,743	0	263	4,647
Jewell	320	2,146	94	920	0	0	3,480

**TABLE 7**  
**ESTIMATED NUMBER OF ACRES IRRIGATED BY CROP AND COUNTY <sup>a/</sup>**  
**KANSAS, 2008**

<b>County</b>	<b>Alfalfa</b>	<b>Corn</b>	<b>Grain Sorghum</b>	<b>Soybeans</b>	<b>Wheat</b>	<b>Other or Multiple Crops</b>	<b>Total</b>
Johnson	0	416	0	0	0	4,433	4,849
Kearny	29,193	39,226	3,317	4,208	17,704	5,318	98,966
Kingman	269	7,216	655	4,028	2,956	400	15,524
Kiowa	2,970	28,312	2,597	12,216	5,956	1,209	53,260
Labette	0	0	0	220	0	449	669
Lane	377	8,133	1,287	2,442	4,347	1,076	17,662
Leavenworth	0	543	60	545	0	198	1,346
Lincoln	0	0	65	327	210	0	602
Linn	0	108	0	0	0	85	193
Logan	220	4,711	173	778	1,073	1,567	8,522
Lyon	0	0	0	0	0	72	72
Marion	110	905	275	571	123	203	2,186
Marshall	65	1,642	0	816	0	41	2,564
McPherson	726	16,949	993	14,320	1,194	336	34,519
Meade	4,288	74,450	5,773	12,167	25,045	3,588	125,311
Miami	0	120	0	0	0	348	468
Mitchell	362	2,617	0	2,457	270	155	5,860
Montgomery	0	630	0	0	0	217	847
Morris	40	86	0	194	0	8	328
Morton	571	20,736	5,798	1,099	16,936	1,417	46,556
Nemaha	0	0	0	0	0	28	28
Neosho	0	0	0	0	0	40	40
Ness	400	682	787	646	740	341	3,595
Norton	811	5,961	674	2,677	706	46	10,875
Osage	0	0	130	104	0	92	326
Osborne	304	1,458	115	1,036	0	70	2,983
Ottawa	286	1,181	229	1,839	486	81	4,102
Pawnee	9,292	31,216	2,784	18,465	10,452	2,120	74,329
Phillips	630	4,443	104	1,822	43	268	7,310
Pottawatomie	195	7,619	0	6,093	0	330	14,236
Pratt	4,695	48,795	3,726	17,310	7,002	3,524	85,053
Rawlins	2,335	10,099	400	1,253	2,600	1,454	18,141
Reno	1,219	23,254	2,296	18,350	6,014	2,471	53,605
Republic	1,615	16,606	296	10,141	384	273	29,315
Rice	488	10,284	953	8,084	2,112	593	22,515
Riley	130	2,175	0	1,699	0	666	4,670
Rooks	795	638	0	117	0	3	1,553
Rush	673	4,302	1,457	2,820	225	426	9,904
Russell	120	15	0	0	0	6	141
Saline	226	707	369	1,372	190	630	3,495
Scott	1,078	27,857	4,677	897	17,507	927	52,943
Sedgwick	862	18,153	949	14,432	1,868	4,787	41,051
Seward	9,667	61,248	7,972	11,427	30,320	6,346	126,980
Shawnee	239	8,921	0	6,046	43	704	15,953
Sheridan	2,072	54,853	1,802	10,734	5,163	3,562	78,186
Sherman	2,994	76,768	1,103	2,358	19,214	11,125	113,561

**TABLE 7**  
**ESTIMATED NUMBER OF ACRES IRRIGATED BY CROP AND COUNTY <sup>a/</sup>**  
**KANSAS, 2008**

<b>County</b>	<b>Alfalfa</b>	<b>Corn</b>	<b>Grain Sorghum</b>	<b>Soybeans</b>	<b>Wheat</b>	<b>Other or Multiple Crops</b>	<b>Total</b>
Smith	135	1,404	309	514	171	30	2,562
Stafford	4,910	42,898	2,566	20,795	8,971	1,884	82,024
Stanton	4,645	55,385	9,256	166	39,043	1,602	110,098
Stevens	4,234	102,618	8,753	6,610	46,281	5,699	174,195
Sumner	0	3,863	0	4,302	1,170	348	9,683
Thomas	1,375	66,548	1,223	13,097	12,441	4,024	98,708
Trego	861	2,038	288	1,455	613	279	5,534
Wabaunsee	66	4,938	0	2,625	0	311	7,940
Wallace	537	36,385	791	344	13,419	3,630	55,106
Washington	0	5,971	125	3,896	308	32	10,332
Wichita	1,838	35,030	1,509	1,088	28,784	1,011	69,259
Wilson	0	100	0	190	0	0	290
Woodson	0	0	0	0	0	0	0
Wyandotte	0	188	0	232	0	160	580

<sup>a/</sup> The estimated number of acres of each type of crop was determined by adding single-crop acreages to prorated multiple-crop acreages. State totals by crop type not shown on county table due to rounding error. See Table 6 for State totals of estimated acres by crop type.

**TABLE 8**  
**WATER USE , ACRES IRRIGATED, AND AVERAGE APPLICATION RATE BY TYPE OF IRRIGATION SYSTEM BY REGIONAL LOCATION**  
**KANSAS, 2008**

Regional Location	Flood			Center Pivot			Center Pivot with Drop Nozzles			Other Sprinkler			Combination Center Pivot and Flood			Subsurface Drip and Comb. Drip + Other			Other or Unspecified		
	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A
<b>Western Kansas</b>																					
GMD No. 1	23,487	23,092	1.02	10,425	11,554	0.90	154,550	156,310	0.99	204	158	1.29	20,290	20,279	1.00	288	265	1.09	1,109	890	1.25
GMD No. 3	65,131	50,662	1.29	220,760	175,862	1.26	1,411,107	1,056,983	1.34	5,840	4,982	1.17	213,873	178,513	1.20	8,166	5,785	1.41	5,658	4,233	1.34
GMD No. 4	3,728	3,510	1.06	38,495	36,302	1.06	340,315	321,483	1.06	1,426	1,833	0.78	13,144	13,432	0.98	1,912	1,740	1.10	704	892	0.79
Remainder	19,494	16,336	1.19	8,944	10,083	0.89	53,886	61,154	0.88	1,196	1,770	0.68	14,374	13,248	1.09	669	783	0.85	1,012	956	1.06
<b>Central Kansas</b>																					
GMD No. 2	16,822	19,643	0.86	6,355	11,121	0.57	53,674	85,435	0.63	888	1,465	0.61	3,843	6,929	0.55	1,930	3,491	0.55	247	458	0.54
GMD No. 5	16,507	19,804	0.83	58,101	62,891	0.92	343,321	358,236	0.96	786	1,047	0.75	6,606	9,240	0.71	627	727	0.86	227	290	0.78
Remainder	21,903	34,463	0.64	18,593	40,330	0.46	61,502	122,574	0.50	3,319	5,536	0.60	6,400	13,398	0.48	1,173	2,332	0.50	550	946	0.58
<b>Eastern Kansas</b>																					
All Eastern KS	2,902	6,317	0.46	4,832	16,681	0.29	7,939	32,383	0.25	2,745	6,149	0.45	514	2,187	0.23	89	185	0.48	204	792	0.26
<b>State Total</b>	169,974	173,827	0.98	366,506	364,824	1.00	2,426,293	2,194,558	1.11	16,404	22,940	0.72	279,044	257,226	1.08	14,854	15,308	0.97	9,712	9,457	1.03

**TABLE 9**  
**TOTAL WATER USE, ACRES IRRIGATED , AND PERCENT BY SYSTEM TYPE AND REGIONAL LOCATION**  
**KANSAS, 2008**

	Total Acres Irrigated	Percent of acres irrigated by system type						
		Flood	Center Pivot	Pivot with Drop Nozzles	Other Sprinkler	Comb. Pivot + Flood	Subs. Drip and Drip + Other	Other or Unspecified
<b>Western Kansas</b>								
Western KS GMD No. 1	212,548	10.9	5.4	73.5	0.1	9.5	0.1	0.4
Southwest KS GMD No. 3	1,477,020	3.4	11.9	71.6	0.3	12.1	0.4	0.3
Northwest KS GMD No. 4	379,192	0.9	9.6	84.8	0.5	3.5	0.5	0.2
Remainder of Western KS	104,330	15.7	9.7	58.6	1.7	12.7	0.8	0.9
<b>Central Kansas</b>								
Equus Beds GMD No. 2	128,542	15.3	8.7	66.5	1.1	5.4	2.7	0.4
Big Bend GMD No. 5	452,235	4.4	13.9	79.2	0.2	2.0	0.2	0.1
Remainder of Central KS	219,579	15.7	18.4	55.8	2.5	6.1	1.1	0.4
<b>Eastern Kansas</b>								
All Eastern Kansas	64,694	9.8	25.8	50.1	9.5	3.4	0.3	1.2
<b>State Total</b>	<b>3,038,140</b>	<b>5.7</b>	<b>12.0</b>	<b>72.2</b>	<b>0.8</b>	<b>8.5</b>	<b>0.5</b>	<b>0.3</b>

	Total Water Use (AF)	Percent of water use by system type						
		Flood	Center Pivot	Pivot with Drop Nozzles	Other Sprinkler	Comb. Pivot + Flood	Subs. Drip and Drip + Other	Other or Unspecified
<b>Western Kansas</b>								
Western KS GMD No. 1	210,353	11.2	5.0	73.5	0.1	9.6	0.1	0.5
Southwest KS GMD No. 3	1,930,536	3.4	11.4	73.1	0.3	11.1	0.4	0.3
Northwest KS GMD No. 4	399,724	0.9	9.6	85.1	0.4	3.3	0.5	0.2
Remainder of Western KS	99,576	19.6	9.0	54.1	1.2	14.4	0.7	1.0
<b>Central Kansas</b>								
Equus Beds GMD No. 2	83,759	20.1	7.6	64.1	1.1	4.6	2.3	0.3
Big Bend GMD No. 5	426,175	3.9	13.6	80.6	0.2	1.6	0.1	0.1
Remainder of Central KS	113,440	19.3	16.4	54.2	2.9	5.6	1.0	0.5
<b>Eastern Kansas</b>								
All Eastern Kansas	19,225	15.1	25.1	41.3	14.3	2.7	0.5	1.1
<b>State Total</b>	<b>3,282,787</b>	<b>5.2</b>	<b>11.2</b>	<b>73.9</b>	<b>0.5</b>	<b>8.5</b>	<b>0.5</b>	<b>0.3</b>

**TABLE 10**  
**WATER USE , ACRES IRRIGATED, AND AVERAGE APPLICATION RATE BY TYPE OF IRRIGATION SYSTEM BY COUNTY**  
**KANSAS, 2008**

County	Flood			Center Pivot			Center Pivot with Drop Nozzles			Other Sprinkler			Combination Center Pivot and Flood			Subsurface Drip and Comb. Drip + Other			Other or Unspecified		
	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A
Allen	0	0	0.00	14	105	0.13	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Anderson	32	125	0.26	73	308	0.24	287	1,393	0.21	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Atchison	17	72	0.23	0	0	0.00	26	206	0.12	9	33	0.28	0	0	0.00	0	0	0.00	0	0	0.00
Barber	122	192	0.64	578	716	0.81	2,948	3,625	0.81	1	7	0.17	0	0	0.00	0	0	0.00	0	0	0.00
Barton	4,941	8,002	0.62	1,657	2,559	0.65	15,863	22,033	0.72	125	222	0.56	955	1,714	0.56	244	295	2.00	0	0	0.00
Bourbon	0	0	0.00	0	118	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Brown	0	0	0.00	153	385	0.40	237	588	0.40	12	20	0.60	0	0	0.00	4	4	1.05	0	0	0.00
Butler	0	0	0.00	314	524	0.60	79	586	0.14	321	426	0.75	0	0	0.00	0	5	0.01	0	0	0.00
Chase	0	0	0.00	4	11	0.34	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Chautauqua	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Cherokee	0	0	0.00	1	3	0.41	0	0	0.00	39	305	0.13	0	0	0.00	0	0	0.00	0	0	0.00
Cheyenne	726	429	1.69	7,123	5,871	1.21	45,197	36,552	1.24	634	869	0.73	2,372	2,123	1.12	177	138	1.28	138	156	0.88
Clark	69	312	0.22	734	800	0.92	3,783	3,833	0.99	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Clay	3,025	4,418	0.68	880	1,897	0.46	5,722	13,939	0.41	40	55	0.72	993	2,243	0.44	96	238	0.40	69	120	0.57
Cloud	1,752	3,670	0.48	450	1,918	0.23	4,944	13,068	0.38	11	56	0.19	1,379	2,832	0.49	58	125	0.46	0	0	0.00
Coffey	0	0	0.00	3	15	0.22	66	336	0.20	0	0	0.00	0	0	0.00	0	0	0.00	4	30	0.12
Comanche	170	200	0.85	1,375	1,835	0.75	5,305	4,761	1.11	13	10	1.28	0	0	0.00	0	0	0.00	0	0	0.00
Cowley	3	14	0.19	200	756	0.26	789	1,516	0.52	112	231	0.48	0	0	0.00	0	0	0.00	0	0	0.00
Crawford	0	0	0.00	186	1,104	0.17	121	488	0.25	16	90	0.18	0	0	0.00	0	0	0.00	65	380	0.17
Decatur	1,578	1,204	1.31	1,299	1,610	0.81	6,624	7,009	0.95	299	388	0.77	465	337	1.38	222	202	1.10	208	226	0.92
Dickinson	416	649	0.64	492	964	0.51	1,274	2,627	0.48	102	148	0.69	85	137	0.62	0	0	0.00	15	85	0.18
Doniphan	0	0	0.00	81	520	0.15	0	0	0.00	0	0	0.00	0	0	0.00	4	11	0.36	0	0	0.00
Douglas	0	0	0.00	450	956	0.47	233	731	0.32	9	12	0.79	34	110	0.31	15	28	1.12	6	22	0.26
Edwards	999	871	1.15	15,365	14,457	1.06	90,790	82,379	1.10	64	42	1.51	370	464	0.80	0	0	0.00	0	0	0.00
Elk	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Ellis	251	279	0.90	44	156	0.28	532	787	0.68	210	245	0.86	106	203	0.52	0	0	0.00	0	0	0.00
Ellsworth	0	0	0.00	46	230	0.20	39	225	0.18	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Finney	21,475	15,645	1.37	27,787	22,330	1.24	222,243	164,061	1.35	1,622	1,435	1.13	23,458	19,609	1.20	1,310	898	2.83	737	545	1.35
Ford	1,644	1,318	1.25	15,433	13,660	1.13	75,238	65,995	1.14	397	310	1.28	4,121	4,057	1.02	442	484	1.93	135	163	0.83
Franklin	0	0	0.00	544	648	0.84	9	150	0.06	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00

**TABLE 10**  
**WATER USE , ACRES IRRIGATED, AND AVERAGE APPLICATION RATE BY TYPE OF IRRIGATION SYSTEM BY COUNTY**  
**KANSAS, 2008**

County	Flood			Center Pivot			Center Pivot with Drop Nozzles			Other Sprinkler			Combination Center Pivot and Flood			Subsurface Drip and Comb. Drip + Other			Other or Unspecified		
	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A
Geary	350	393	0.89	47	182	0.26	1,140	3,145	0.36	65	111	0.59	137	245	0.56	18	98	0.18	0	0	0.00
Gove	1,464	1,463	1.00	815	1,365	0.60	13,831	16,155	0.86	30	34	0.88	1,458	1,937	0.75	0	0	0.00	0	0	0.00
Graham	7	58	0.12	2,538	3,642	0.70	6,049	9,045	0.67	27	54	0.50	522	465	1.12	0	0	0.00	0	0	0.00
Grant	2,776	2,510	1.11	14,832	10,693	1.39	107,835	79,634	1.35	146	171	0.85	10,936	11,127	0.98	337	170	1.98	0	0	0.00
Gray	2,952	2,610	1.13	43,389	37,228	1.17	158,627	130,740	1.21	152	212	0.72	9,600	7,224	1.33	1,358	845	3.25	278	274	1.01
Greeley	590	361	1.63	751	796	0.94	22,257	22,525	0.99	87	80	1.09	0	0	0.00	0	0	0.00	0	0	0.00
Greenwood	0	0	0.00	0	0	0.00	0	0	0.00	15	15	1.00	0	0	0.00	0	0	0.00	0	0	0.00
Hamilton	2,518	2,007	1.25	1,629	1,789	0.91	27,771	22,340	1.24	0	0	0.00	7,334	5,202	1.41	0	0	0.00	1	5	0.18
Harper	84	70	1.20	38	83	0.46	770	1,327	0.58	27	65	0.42	0	0	0.00	0	0	0.00	0	0	0.00
Harvey	6,555	7,268	0.90	875	1,856	0.47	14,223	22,430	0.63	98	383	0.26	736	1,545	0.48	560	982	1.14	0	0	0.00
Haskell	12,174	9,227	1.32	19,238	16,304	1.18	129,004	107,635	1.20	1,997	1,791	1.11	57,169	51,140	1.12	1,773	1,566	2.62	1,384	800	1.73
Hodgeman	6,743	4,780	1.41	2,622	2,176	1.20	9,336	12,059	0.77	24	11	2.22	5,079	5,688	0.89	297	385	0.77	0	0	0.00
Jackson	0	0	0.00	0	0	0.00	86	260	0.33	20	35	0.57	0	0	0.00	0	0	0.00	0	0	0.00
Jefferson	282	480	0.59	217	762	0.28	994	3,113	0.32	88	268	0.33	0	0	0.00	7	24	0.28	0	0	0.00
Jewell	162	408	0.40	583	1,864	0.31	154	609	0.25	0	0	0.00	145	599	0.24	0	0	0.00	0	0	0.00
Johnson	20	2	9.84	872	1,693	0.52	0	0	0.00	1,446	2,670	0.54	114	150	0.76	56	74	1.14	51	260	0.20
Kearny	5,601	5,028	1.11	15,718	10,320	1.52	115,621	69,053	1.67	6	20	0.28	18,908	14,545	1.30	0	0	0.00	0	0	0.00
Kingman	0	0	0.00	3,711	5,422	0.68	8,347	10,040	0.83	13	62	0.20	0	0	0.00	0	0	0.00	0	0	0.00
Kiowa	99	134	0.74	8,753	7,800	1.12	51,787	44,681	1.16	34	75	0.46	302	365	0.83	252	205	1.23	0	0	0.00
Labette	0	0	0.00	54	591	0.09	0	0	0.00	19	78	0.24	0	0	0.00	0	0	0.00	0	0	0.00
Lane	5,807	5,101	1.14	695	842	0.82	6,665	7,414	0.90	0	0	0.00	4,521	4,144	1.09	134	161	1.73	0	0	0.00
Leavenworth	0	0	0.00	137	585	0.23	157	578	0.27	134	183	0.73	0	0	0.00	0	0	0.00	0	0	0.00
Lincoln	2	42	0.04	11	130	0.08	57	430	0.13	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Linn	0	0	0.00	0	0	0.00	29	108	0.27	70	85	0.82	0	0	0.00	0	0	0.00	0	0	0.00
Logan	93	145	0.64	276	553	0.50	7,006	7,272	0.96	338	549	0.62	0	0	0.00	15	3	5.00	0	0	0.00
Lyon	0	0	0.00	0	0	0.00	0	0	0.00	20	72	0.27	0	0	0.00	0	0	0.00	0	0	0.00
Marion	46	69	0.67	331	1,003	0.33	386	911	0.42	42	79	0.53	0	0	0.00	10	95	0.10	48	29	1.65
Marshall	31	135	0.23	104	536	0.19	825	1,852	0.45	10	21	0.49	0	0	0.00	0	0	0.00	11	20	0.53
McPherson	5,589	7,228	0.77	1,537	3,024	0.51	9,710	18,358	0.53	48	131	0.37	1,573	3,068	0.51	1,467	2,586	1.09	56	124	0.45
Meade	8,803	5,918	1.49	18,562	13,932	1.33	111,407	76,895	1.45	272	147	1.85	36,427	26,768	1.36	114	86	1.33	1,704	1,565	1.09

**TABLE 10**  
**WATER USE , ACRES IRRIGATED, AND AVERAGE APPLICATION RATE BY TYPE OF IRRIGATION SYSTEM BY COUNTY**  
**KANSAS, 2008**

County	Flood			Center Pivot			Center Pivot with Drop Nozzles			Other Sprinkler			Combination Center Pivot and Flood			Subsurface Drip and Comb. Drip + Other			Other or Unspecified		
	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A
Miami	0	0	0.00	9	120	0.08	2	165	0.01	73	183	0.40	0	0	0.00	0	0	0.00	0	0	0.00
Mitchell	1,047	1,495	0.70	346	789	0.44	1,636	3,255	0.50	0	0	0.00	61	76	0.80	47	245	0.19	0	0	0.00
Montgomery	0	0	0.00	0	0	0.00	111	615	0.18	59	228	0.26	0	0	0.00	3	4	0.71	0	0	0.00
Morris	108	160	0.67	44	160	0.28	0	0	0.00	0	8	0.02	0	0	0.00	0	0	0.00	0	0	0.00
Morton	718	762	0.94	12,141	10,279	1.18	37,433	32,706	1.14	287	187	1.53	2,810	2,581	1.09	11	41	0.26	0	0	0.00
Nemaha	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	37	28	1.34
Neosho	0	0	0.00	0	0	0.00	0	0	0.00	28	40	0.71	0	0	0.00	0	0	0.00	0	0	0.00
Ness	2,388	2,165	1.10	193	125	1.54	745	1,108	0.67	8	32	0.25	86	120	0.72	4	42	0.10	1	3	0.49
Norton	3,146	2,828	1.11	438	581	0.75	4,472	6,428	0.70	69	122	0.57	440	572	0.77	0	0	0.00	314	344	0.91
Osage	0	2	0.18	0	0	0.00	22	234	0.10	22	90	0.24	0	0	0.00	0	0	0.00	0	0	0.00
Osborne	1,261	1,805	0.70	43	140	0.31	342	790	0.43	0	9	0.04	0	0	0.00	64	139	0.46	10	100	0.10
Ottawa	189	204	0.93	274	723	0.38	793	2,876	0.28	20	21	0.97	37	276	0.13	0	0	0.00	1	2	0.50
Pawnee	8,710	9,374	0.93	3,844	5,562	0.69	41,459	53,675	0.77	54	151	0.36	3,856	5,480	0.70	62	87	0.72	0	0	0.00
Phillips	1,257	1,493	0.84	940	1,807	0.52	2,347	3,004	0.78	0	0	0.00	346	312	1.11	201	437	1.20	229	257	0.89
Pottawatomie	519	1,483	0.35	485	2,653	0.18	1,837	8,533	0.22	95	330	0.29	142	1,237	0.11	0	0	0.00	0	0	0.00
Pratt	565	548	1.03	17,046	18,379	0.93	68,353	65,053	1.05	162	270	0.60	631	597	1.06	153	206	0.74	0	0	0.00
Rawlins	294	338	0.87	1,061	1,184	0.90	13,238	14,752	0.90	534	651	0.82	652	860	0.76	0	0	0.00	430	356	1.21
Reno	985	1,534	0.64	5,270	7,399	0.71	29,999	42,570	0.70	383	595	0.64	764	1,281	0.60	5	22	0.23	143	204	0.70
Republic	3,862	5,942	0.65	2,979	8,572	0.35	5,365	12,006	0.45	0	0	0.00	1,259	2,433	0.52	86	126	1.33	118	236	0.50
Rice	415	539	0.77	1,029	2,023	0.51	12,122	19,766	0.61	128	98	1.30	54	89	0.61	0	0	0.00	0	0	0.00
Riley	46	269	0.17	214	889	0.24	551	2,829	0.19	189	661	0.29	0	0	0.00	29	22	1.32	0	0	0.00
Rooks	72	152	0.48	79	245	0.32	410	1,153	0.36	0	3	0.08	0	0	0.00	0	0	0.00	0	0	0.00
Rush	3,251	5,011	0.65	35	120	0.29	2,243	3,852	0.58	0	0	0.00	408	921	0.44	0	0	0.00	0	0	0.00
Russell	0	0	0.00	0	0	0.00	20	120	0.17	1	21	0.04	0	0	0.00	0	0	0.00	2	20	0.11
Saline	262	457	0.57	82	420	0.19	374	1,657	0.23	379	459	0.83	227	392	0.58	30	98	0.40	4	12	0.33
Scott	9,192	9,587	0.96	1,662	1,907	0.87	32,240	31,013	1.04	48	54	0.89	8,671	10,127	0.86	299	255	1.17	0	0	0.00
Sedgwick	6,177	7,393	0.84	1,277	2,913	0.44	13,925	25,503	0.55	1,879	2,820	0.67	1,175	2,012	0.58	101	200	0.73	99	210	0.47
Seward	4,047	4,039	1.00	16,994	13,230	1.28	133,700	91,112	1.47	283	277	1.02	24,010	18,278	1.31	4	44	0.10	0	0	0.00
Shawnee	1,780	3,309	0.54	1,151	4,441	0.26	1,645	6,767	0.24	375	1,122	0.33	83	262	0.32	0	0	0.00	30	52	0.58
Sheridan	714	662	1.08	8,984	8,618	1.04	61,102	63,531	0.96	66	144	0.46	5,039	4,938	1.02	332	293	2.10	0	0	0.00

**TABLE 10**  
**WATER USE , ACRES IRRIGATED, AND AVERAGE APPLICATION RATE BY TYPE OF IRRIGATION SYSTEM BY COUNTY**  
**KANSAS, 2008**

County	Flood			Center Pivot			Center Pivot with Drop Nozzles			Other Sprinkler			Combination Center Pivot and Flood			Subsurface Drip and Comb. Drip + Other			Other or Unspecified		
	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A	Water Use (AF)	Acres Irrig.	AF/A
Sherman	1,234	1,361	0.91	10,602	8,429	1.26	114,218	99,429	1.15	324	358	0.91	2,641	2,453	1.08	946	1,035	2.29	266	496	0.54
Smith	420	863	0.49	189	530	0.36	310	1,001	0.31	22	46	0.47	48	122	0.39	0	0	0.00	0	0	0.00
Stafford	1,524	1,579	0.97	10,850	11,847	0.92	59,387	66,773	0.89	314	335	0.94	762	1,061	0.72	168	139	1.21	227	290	0.78
Stanton	3,431	2,590	1.32	6,984	6,678	1.05	98,890	80,833	1.22	340	190	1.79	18,982	18,020	1.05	2,817	1,651	3.43	176	136	1.30
Stevens	1,614	1,225	1.32	29,356	20,937	1.40	206,404	145,723	1.42	338	242	1.40	7,475	5,318	1.41	0	0	0.00	1,244	750	1.66
Sumner	0	0	0.00	161	426	0.38	2,814	8,848	0.32	57	103	0.55	17	101	0.17	80	200	0.40	1	5	0.19
Thomas	181	121	1.49	7,301	7,666	0.95	89,972	88,527	1.02	213	190	1.12	1,272	1,693	0.75	441	271	3.35	300	240	1.25
Trego	589	652	0.90	1,180	1,232	0.96	2,587	3,366	0.77	29	121	0.24	137	138	0.99	0	3	0.10	58	22	2.64
Wabaunsee	151	549	0.28	130	906	0.14	1,217	6,078	0.20	19	69	0.28	116	298	0.39	1	40	0.01	0	0	0.00
Wallace	1,249	1,037	1.20	4,180	4,783	0.87	46,691	45,782	1.02	27	80	0.33	3,946	2,839	1.39	0	0	0.00	557	585	0.95
Washington	515	1,185	0.43	1,055	4,011	0.26	1,186	4,037	0.29	79	100	0.79	423	999	0.42	0	0	0.00	0	0	0.00
Wichita	8,023	8,117	0.99	4,108	4,241	0.97	49,672	53,403	0.93	69	24	2.87	3,153	3,169	0.99	0	0	0.00	552	305	1.81
Wilson	71	160	0.44	0	0	0.00	0	0	0.00	0	0	0.00	25	130	0.19	0	0	0.00	0	0	0.00
Woodson	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
Wyandotte	0	0	0.00	168	232	0.72	34	188	0.18	167	200	0.83	0	0	0.00	0	0	0.00	0	0	0.00
<b>State Total</b>	<b>169,974</b>	<b>173,827</b>	<b>0.98</b>	<b>366,506</b>	<b>364,824</b>	<b>1.00</b>	<b>2,426,293</b>	<b>2,194,558</b>	<b>1.11</b>	<b>16,404</b>	<b>22,940</b>	<b>0.72</b>	<b>279,044</b>	<b>257,226</b>	<b>1.08</b>	<b>14,854</b>	<b>15,308</b>	<b>0.97</b>	<b>9,712</b>	<b>9,457</b>	<b>1.03</b>

