APPENDIX A

WATER WELL DATA
(2003-2007)

- CHARACTERISTICS
- WATER PRODUCTION
- HOURS OF OPERATION

City of Monett Well Data for CY 2007

Well #	County	Well Drilled	Well Depth	Well Casing Depth	Water Level When Drilled	Water Level Now	Pump Depth	Date Last Pump Installed	Motor Size (HP)	GPM Pump Capacity	Water Pumped During CY 2005 (Gallons)	Hours of Pump Operation CY 2007	Average GPM	Avg Daily Running Time (Hours)
					(Below Surface)									
1	Barry	1915	1198	308	360	697	904	8/11/1997	75	250	5,013,040	334	250.15	0.92
4	Barry	1948	1270	500	220	844	974	6/17/1999	100	300	16,706,700	1,085	256.63	2.97
5	Barry	1955	1603	500	225	491	958	7/4/2006	100	300	106,411,380	5,288	335.39	14.49
9	Barry	1965	1575	500	140	182	320	11/1998	150	1050	263,744,510	4,375	1,004.74	11.99
11	Barry	1965	1525	503	105	790	950	4/5/1990	100	300	14,813,960	853	289.45	2.34
12	Lawrence	1983	1625	504	231	240	618	3/2/2006	125	650	317,928,600	7,533	703.41	20.64
13	Barry	1985	1420	500	220	870	1218	8/31/2006	75	230	26,919,000	2,898	154.81	7.94
15	Barry	1991	1705	640	591	855	945	6/24/2000	100	300	73,650,110	4,664	263.19	12.78
16	Lawrence	1991	1630	495	450	1013	1161	11/15/2004	40	100	36,654,100	7,978	76.57	21.86
17	Barry	1951	1093	560	324	399	924	8/17/2006	40	170	82,738,000	6,802	202.73	18.64
18	Barry	2000	1550	507	441	620	760	1/20/2001	100	300	64,409,180	3,309	324.41	9.07
19	ry (Monett Airp	2000	1600	610	212	239	509	1/25/2001	15	100	811,100	143	94.53	0.39
20	Barry	2004	1550	500	420	420	750	12/30/2005	150	700	166,395,942	5,546	500.05	15.19
21*	Barry	2006	1500	500	250				150	700	Well not yet placed in service.			
			*#21 Well drilled in 2006 but not placed into service.											
											1,176,195,622	50,808	385.83	

City of Monett Well Data for CY 2006

Well #	County	Well Drilled	Well Depth	Well Casing Depth	Water Level When Drilled	Water Level Now	Pump Depth	Date Last Pump Installed	Motor Size (HP)	GPM Pump Capacity	Water Pumped During CY 2006 (Gallons)	Hours of Pump Operation CY 2006	Average GPM	Avg Daily Running Time (Hours)
1	Barry	1915	1198	308	360	697	904	8/11/1997	75	250	22,591,300	1,773	212.36	4.86
4	Barry	1948	1270	500	220	844	974	6/17/1999	100	300	74,534,200	5,051	245.94	13.84
5	Barry	1955	1603	500	225	491	958	7/4/2006	100	300	93,277,090	5,309	292.83	14.55
9	Barry	1965	1575	500	140	182	320	11/1998	150	1050	451,357,530	8,072	931.94	22.12
11	Barry	1965	1525	503	105	790	950	4/5/1990	100	300	35,255,600	2,128	276.12	5.83
12	Lawrence	1983	1625	504	231	240	618	3/2/2006	125	650	133,385,660	3,716	598.25	10.18
13	Barry	1985	1420	500	220	870	1218	8/31/2006	75	230	37,899,700	4,299	146.93	11.78
15	Barry	1991	1705	640	591	855	945	6/24/2000	100	300	61,354,900	3,715	275.26	10.18
16	Lawrence	1991	1630	495	450	1013	1161	11/15/2004	40	100	33,780,820	6,415	87.77	17.58
17	Barry	1951	1093	560	324	399	924	8/17/2006	40	170	56,324,620	6,264	149.86	17.16
18	Barry	2000	1550	507	441	620	760	1/20/2001	100	300	85,112,010	5,220	271.75	14.30
19	Barry	2000	1600	610	212	239	509	1/25/2001	15	100	635,700	113	93.76	0.31
20	Barry	2004	1550	500	420	420	750	12/30/2005	150	700	158,787,850	5,610	471.74	15.37
21*	Barry	2006	1500	500	250				150	700	Well not yet placed in service.			
			*#21 Well drilled in 2006 but not placed into service.											
											1,244,296,980	57,685		

City of Monett Well Data for CY 2005

Well #	County	Well Drilled	Well Depth	Well Casing Depth	Water Level When Drilled	Water Level Now	Pump Depth	Date Last Pump Installed	Motor Size (HP)	GPM Pump Capacity	Water Pumped During CY 2005 (Gallons)	Hours of Pump Operation CY 2005	Average GPM	Avg Daily Running Time (Hours)
1	Barry	1915	1198	308	360	697	904	8/11/1997	75	250	4,181,400	261	267.35	0.71
4	Barry	1948	1270	500	220	844	974	6/17/1999	100	300	21,961,100	1,177	310.90	3.23
5	Barry	1955	1603	500	225	491	958	7/4/2006	100	300	9,881,430	552	298.14	1.51
9	Barry	1965	1575	500	140	182	320	11/1998	150	1050	329,834,540	5,569	987.20	15.26
11	Barry	1965	1525	503	105	790	950	4/5/1990	100	300	13,697,900	792	288.11	2.17
12	Lawrence	1983	1625	504	231	240	618	3/2/2006	125	650	320,294,000	8,758	609.54	23.99
13	Barry	1985	1420	500	220	870	1218	8/31/2006	75	230	12,890,000	1,022	210.23	2.80
15	Barry	1991	1705	640	591	855	945	6/24/2000	100	300	81,435,500	5,455	248.80	14.95
16	Lawrence	1991	1630	495	450	1013	1161	11/15/2004	40	100	35,125,660	6,375	91.83	17.47
17	Barry	1951	1093	560	324	399	924	8/17/2006	40	170	22,988,200	2,350	163.02	6.44
18	Barry	2000	1550	507	441	620	760	1/20/2001	100	300	70,007,630	3,118	374.27	8.54
19	Barry	2000	1600	610	212	239	509	1/25/2001	15	100	733,100	126	96.66	0.35
20	Barry	2004	1550	500	420	420	750	12/30/2005	150	700	173,694,390	4,592	630.47	12.58
											1,096,724,850	**40,147**		

City of Monett Well Data for CY 2004

Well #	County	Well Drilled	Well Depth	Well Casing Depth	Water Level When Drilled	Water Level Now	Pump Depth	Date Last Pump Installed	Motor Size (HP)	GPM Pump Capacity	Water Pumped During CY 2004 (Gallons)	Hours of Pump Operation CY 2004	Average GPM	Avg Daily Running Time (Hours)
1	Barry	1915	1198	308	360	697	904	8/11/1997	75	250	8,077,800	513	262.44	1.41
4	Barry	1948	1270	500	220	844	974	6/17/1999	100	300	27,454,700	1,388	329.67	3.80
5	Barry	1955	1603	500	225	491	958	7/4/2006	100	300	11,567,770	619	311.46	1.70
9	Barry	1965	1575	500	140	182	320	11/1998	150	1050	292,278,200	4,158	1,171.55	11.39
11	Barry	1965	1525	503	105	790	950	4/5/1990	100	300	19,497,400	1,052	308.89	2.88
12	Lawrence	1983	1625	504	231	240	618	3/2/2006	125	650	341,840,000	8,024	710.04	21.98
13	Barry	1985	1420	500	220	870	1218	8/31/2006	75	230	48,222,500	4,634	173.44	12.70
15	Barry	1991	1705	640	591	855	945	6/24/2000	100	300	95,483,770	5,384	295.58	14.75
16	Lawrence	1991	1630	495	450	1013	1161	11/15/2004	40	100	38,921,390	7,531	86.14	20.63
17	Barry	1951	1093	560	324	399	924	8/17/2006	40	170	44,903,250	4,799	155.95	13.15
18	Barry	2000	1550	507	441	620	760	1/20/2001	100	300	144,396,800	6,464	372.31	17.71
19	Barry	2000	1600	610	212	239	509	1/25/2001	15	100	549,600	88	104.09	0.24
20	Barry	2004	1550	500	420	420	750	12/30/2005	150	700	9,748,590	254	639.67	0.70
											1,082,941,770	**44,908**		

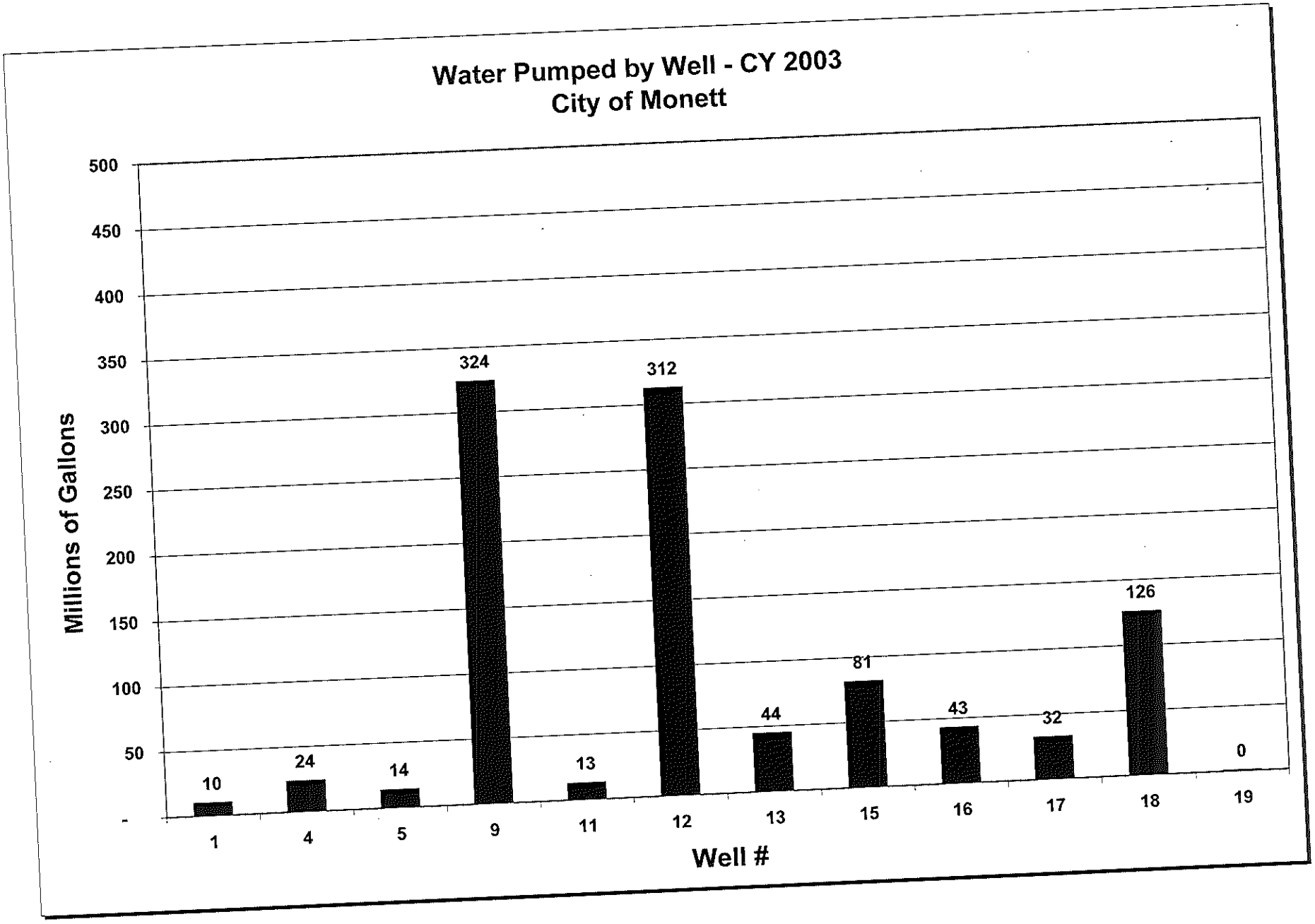
City of Monett Well Data for CY 2003

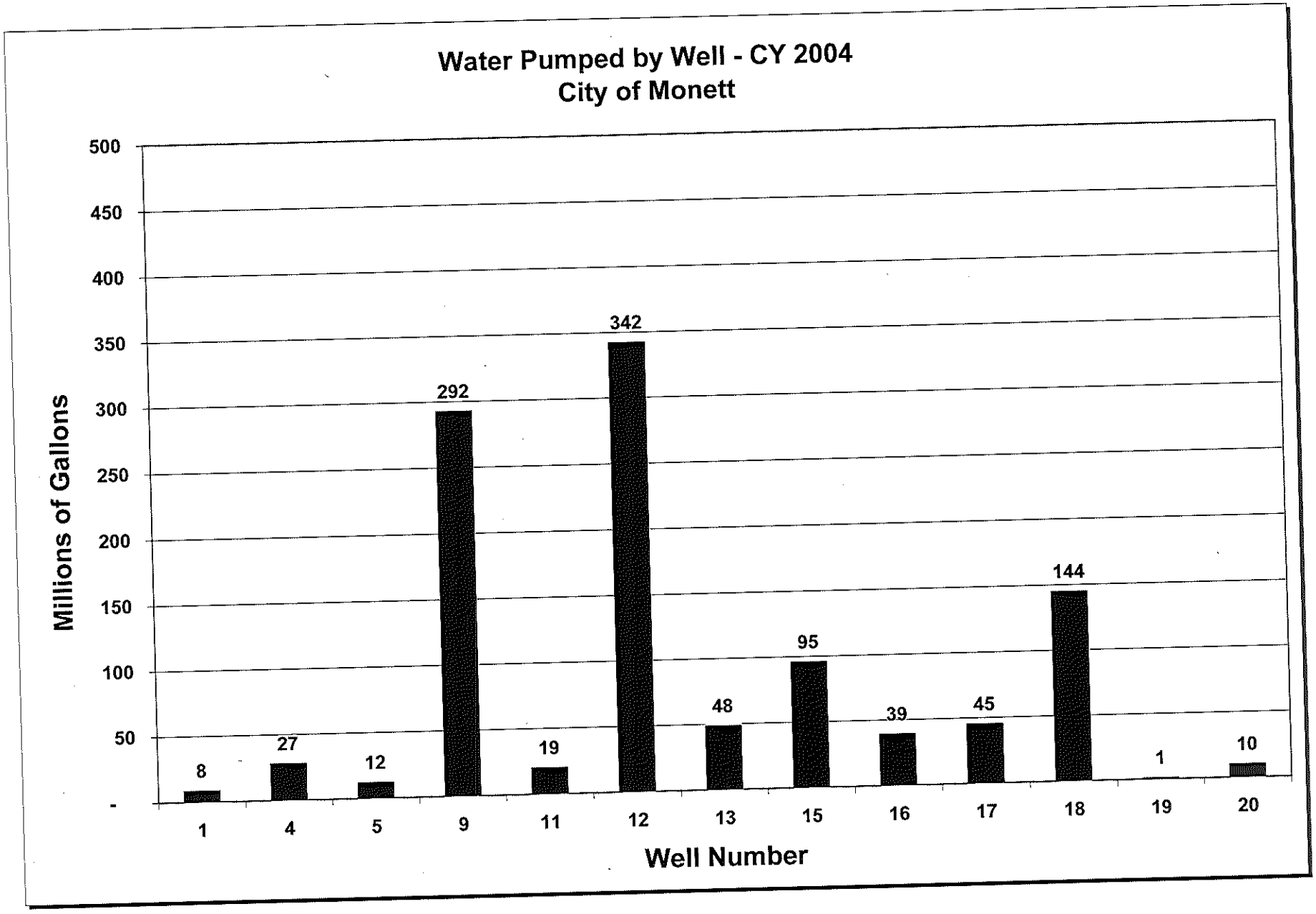
Well #	County	Well Drilled	Well Depth	Well Casing Depth	Water Level When Drilled	Water Level Now	Pump Depth	Date Last Pump Installed	Motor Size (HP)	GPM Pump Capacity	Water Pumped During CY 2003 (Gallons)	Hours of Pump Operation CY 2003	Average GPM	Average Daily Running Time (Hours)
1	Barry	1915	1198	308	360	697	904	8/11/1997	75	250	9,727,000	660	245.63	1.81
4	Barry	1948	1270	500	220	844	974	6/17/1999	100	300	23,587,000	1,321	297.59	3.62
5	Barry	1955	1603	500	225	491	958	7/4/2006	100	300	13,806,340	775	296.91	2.12
9	Barry	1965	1575	500	140	182	320	11/1998	150	1050	323,606,190	5,488	982.77	15.04
11	Barry	1965	1525	503	105	790	950	4/5/1990	100	300	12,625,100	816	257.87	2.24
12	Lawrence	1983	1625	504	231	240	618	3/2/2006	125	650	312,303,530	8,696	598.56	23.82
13	Barry	1985	1420	500	220	870	1218	8/31/2006	75	230	44,439,000	3,882	190.79	10.64
15	Barry	1991	1705	640	591	855	945	6/24/2000	100	300	81,038,680	4,487	301.01	12.29
16	Lawrence	1991	1630	495	450	1013	1161	11/15/2004	40	100	42,599,490	8,674	81.85	23.76
17	Barry	1951	1093	560	324	399	924	8/17/2006	40	170	32,223,890	4,617	116.32	12.65
18	Barry	2000	1550	507	441	620	760	1/20/2001	100	300	125,513,030	6,137	340.86	16.81
19	Barry	2000	1600	610	212	239	509	1/25/2001	15	100	473,000	82	96.14	0.22
											1,021,942,450	**45,635**		

APPENDIX B

WATER WELL PUMP OPERATION
(2003-2007)

- AVERAGE DAILY RUNNING TIMES
- WATER PUMPED


Water Pumped by Well - CY 2003
City of Monett
Millions of Gallons
500
450
400
350
300
250
200
150
100
50
-
10
24
14
324
13
312
44
81
43
32
126
0
1
4
5
9
11
12
13
15
16
17
18
19
Well #


Water Pumped by Well - CY 2004
City of Monett
Millions of Gallons
500
450
400
350
300
250
200
150
100
50
-
8
27
12
292
19
342
48
95
39
45
144
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10
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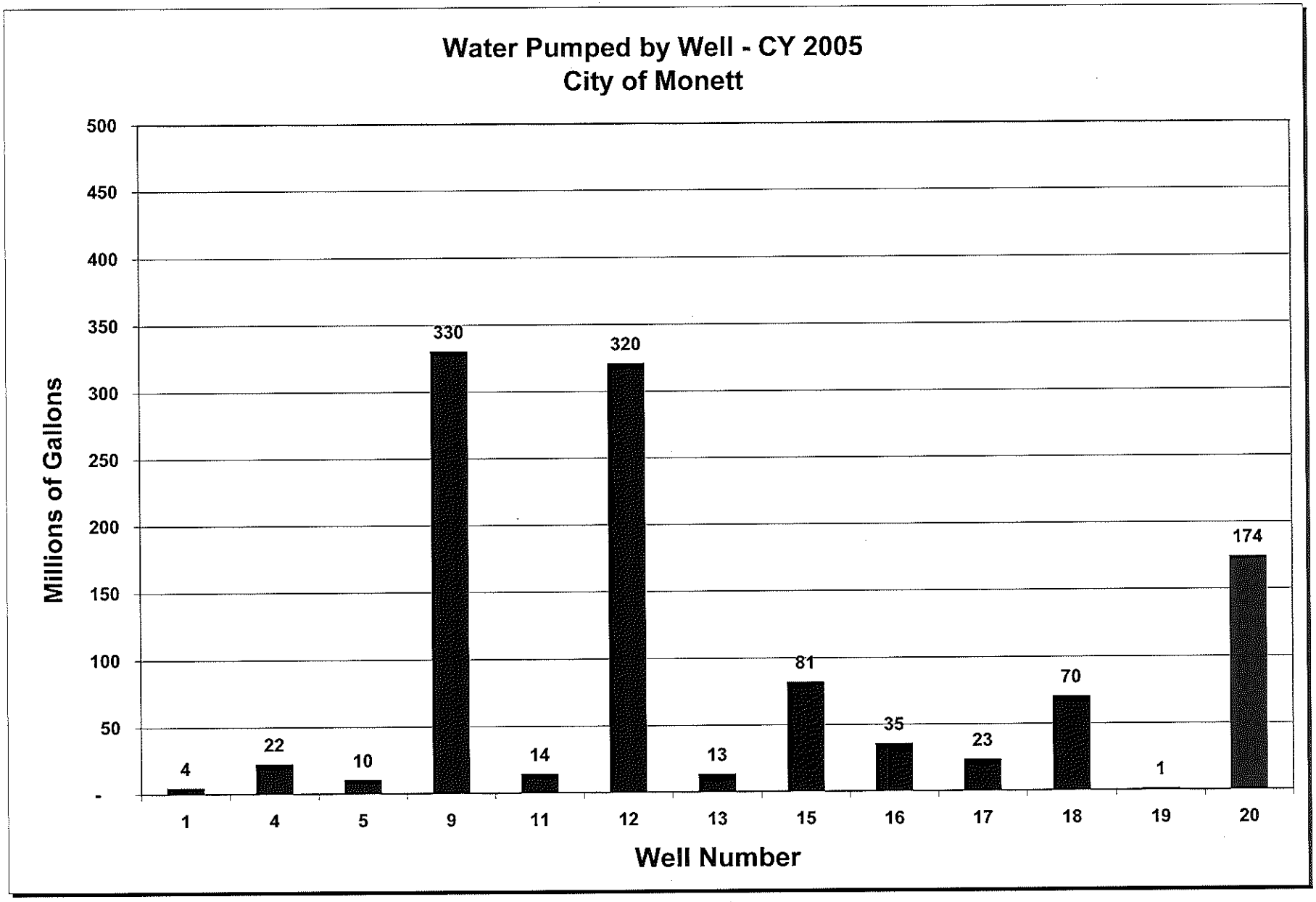
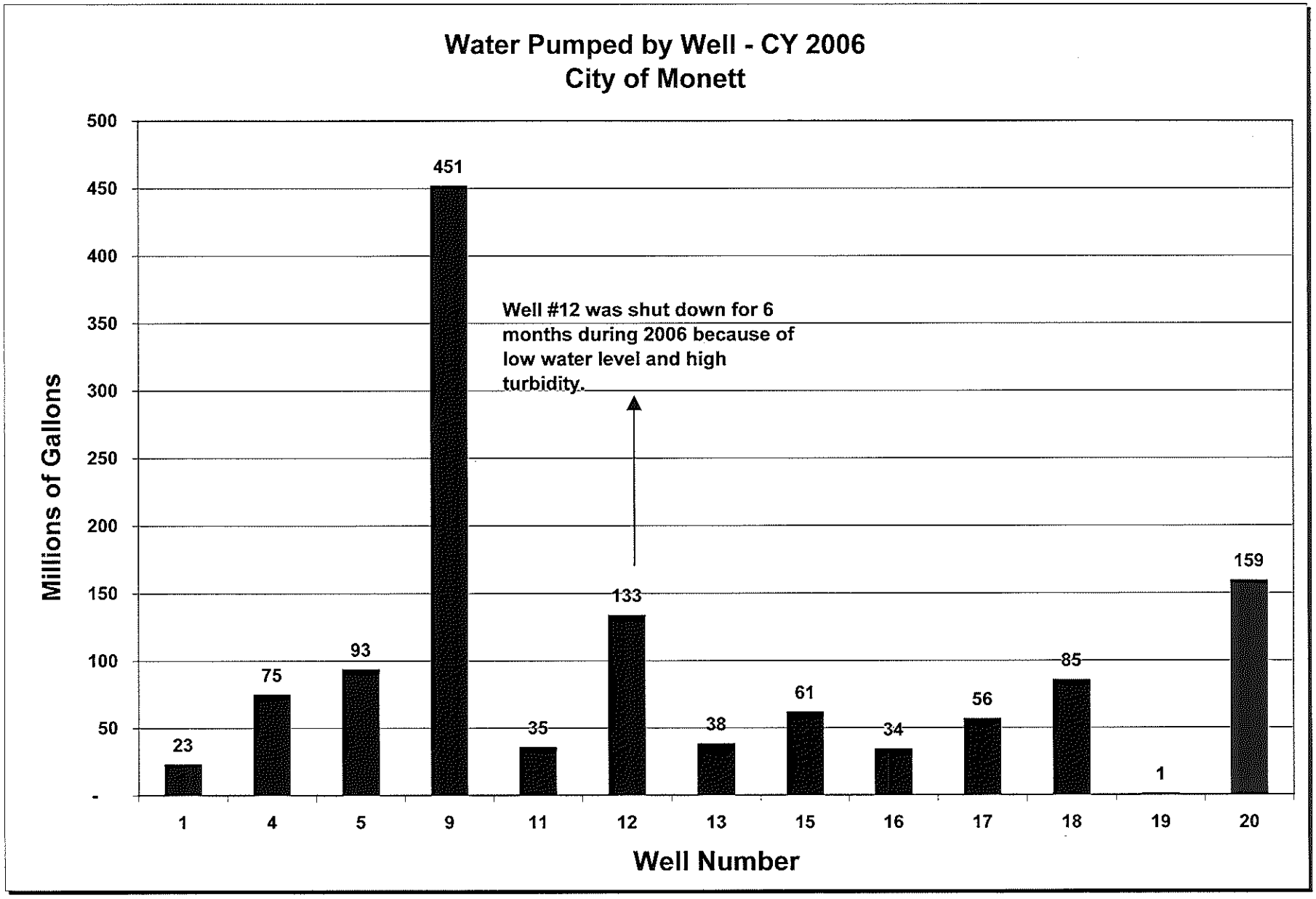
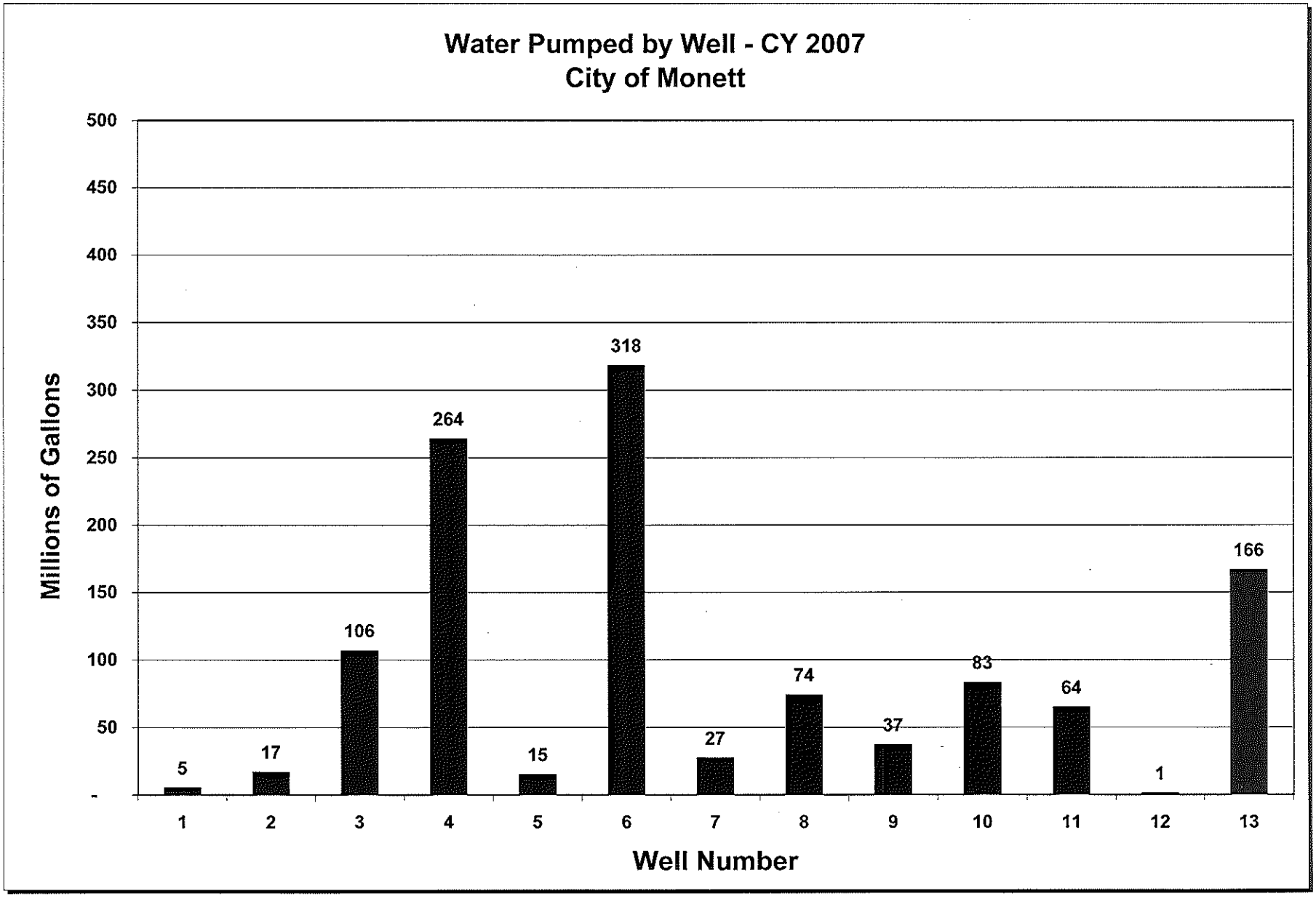
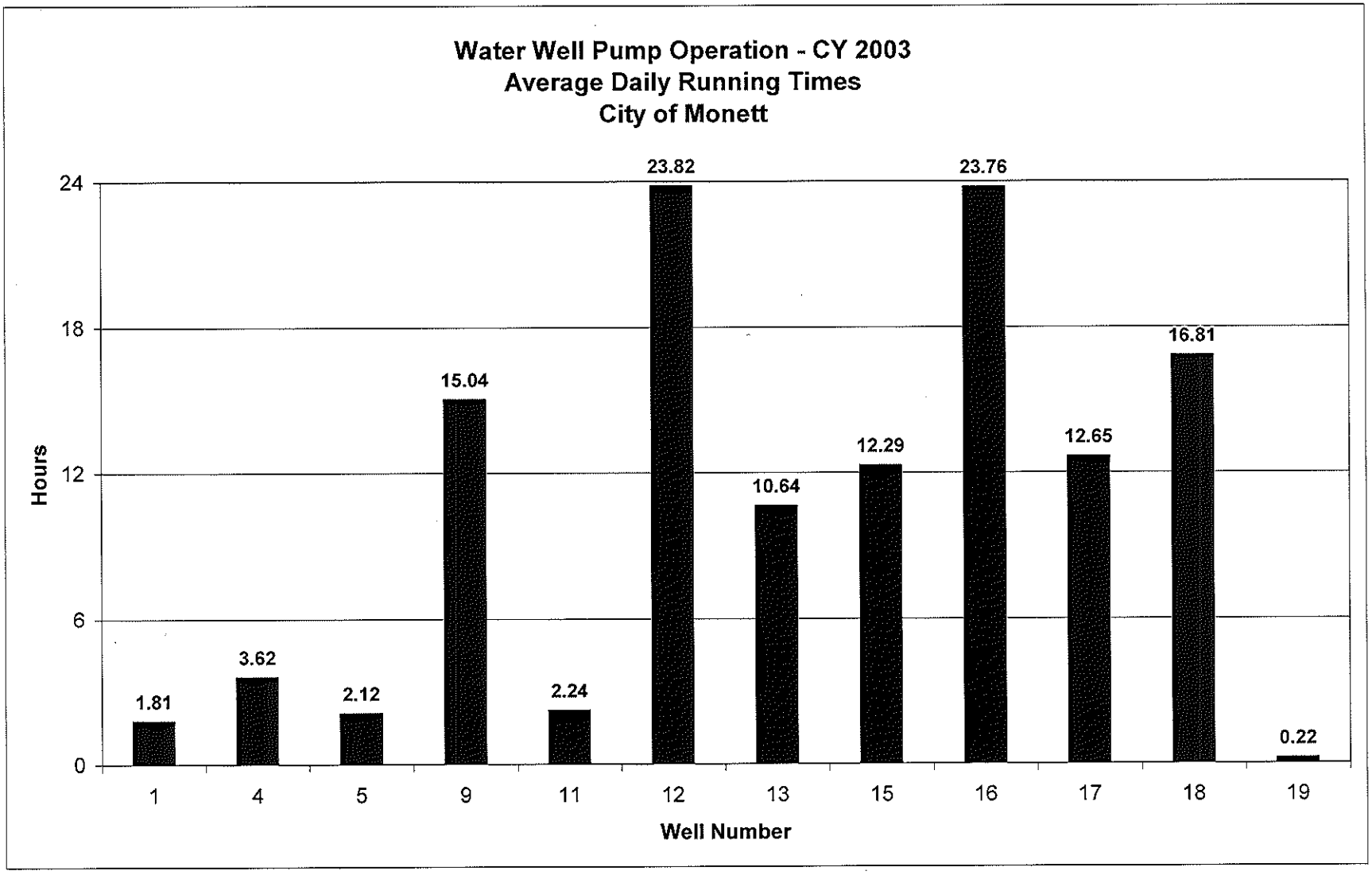
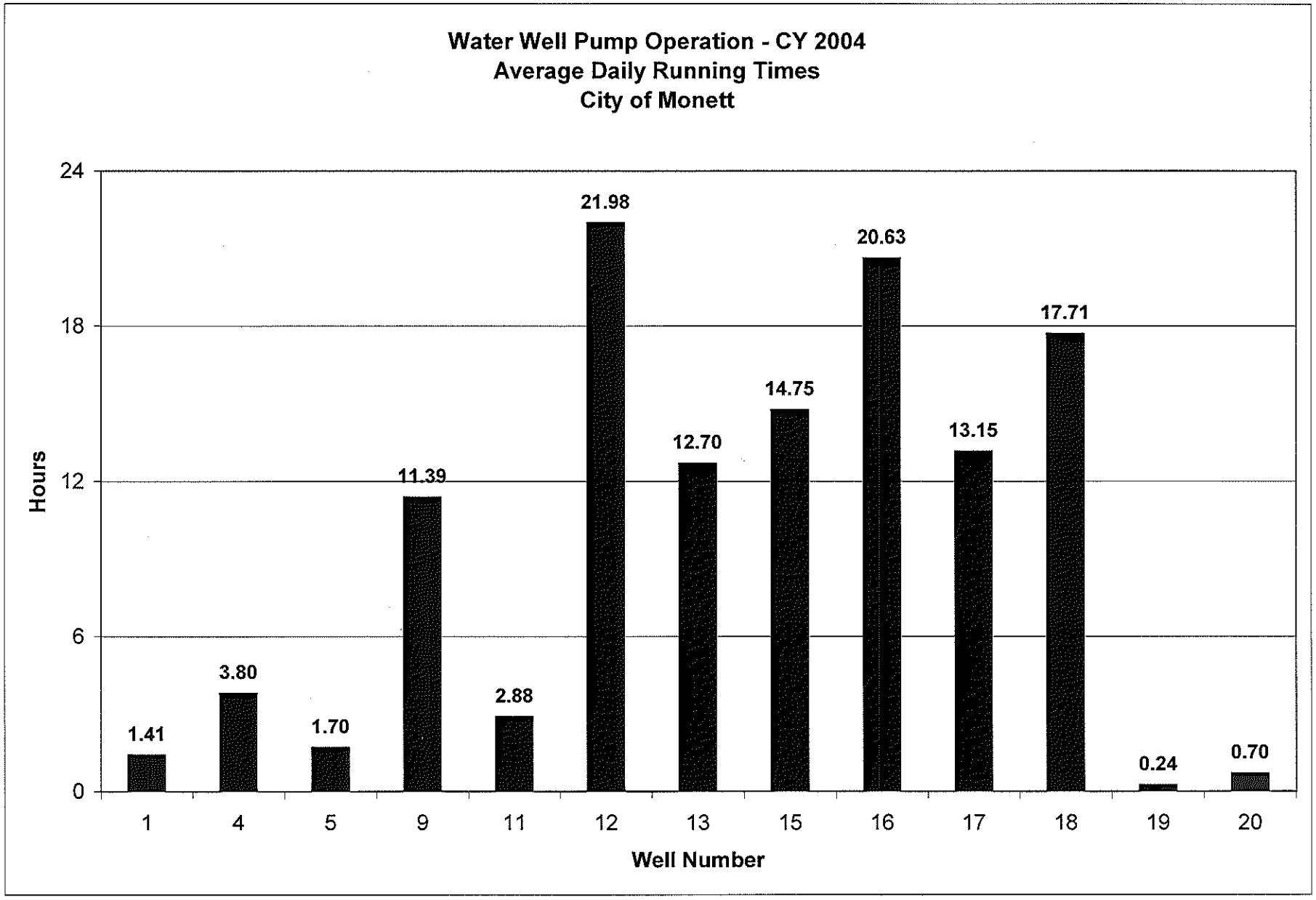
4
5
9
11
12
13
15
16
17
18
19
20
Well Number

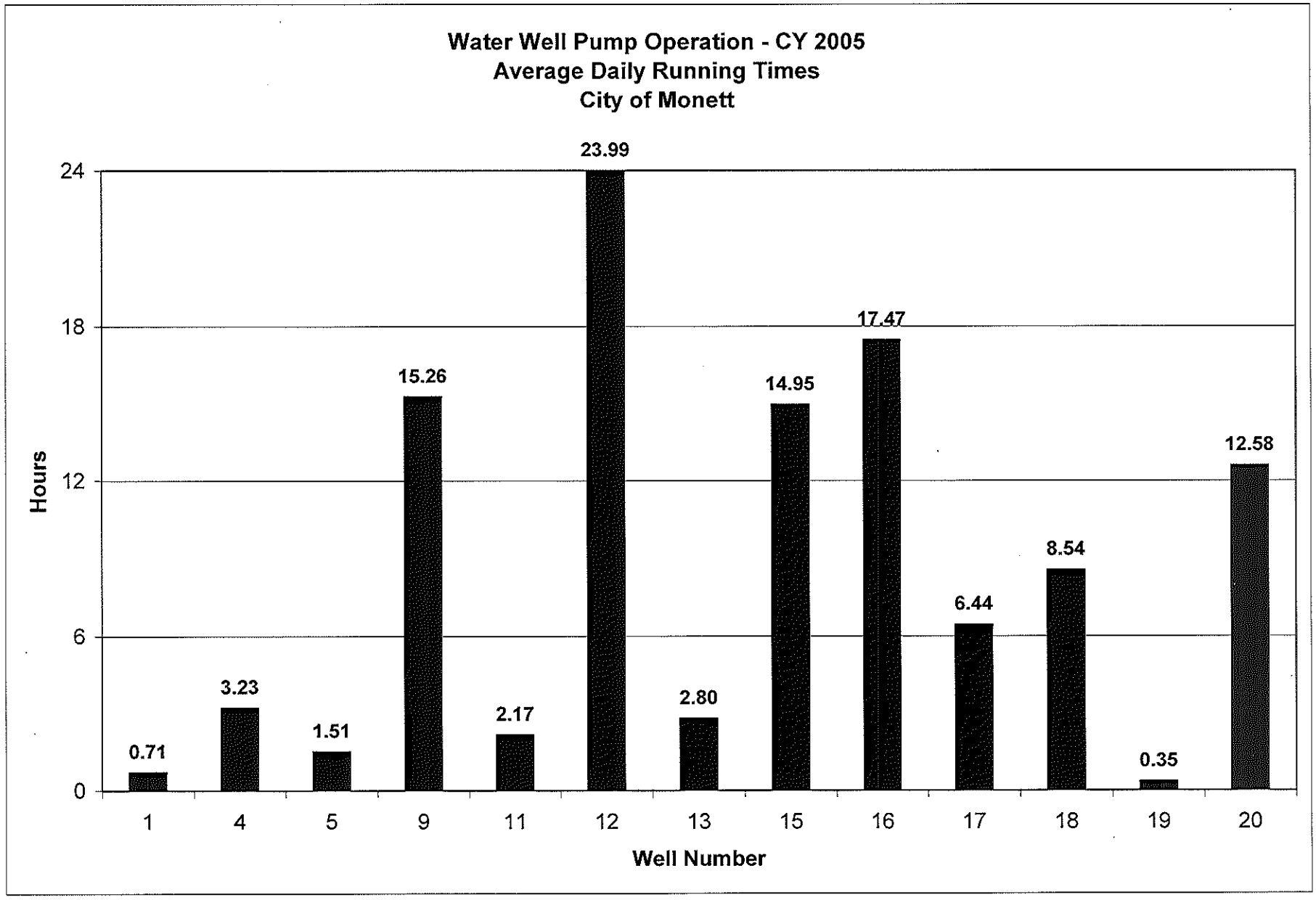

Water Pumped by Well - CY 2005
City of Monett
Millions of Gallons
500
450
400
350
300
250
200
150
100
50
-
4
22
10
330
14
320
13
81
35
23
70
1
174
1
4
5
9
11
12
13
15
16
17
18
19
20
Well Number

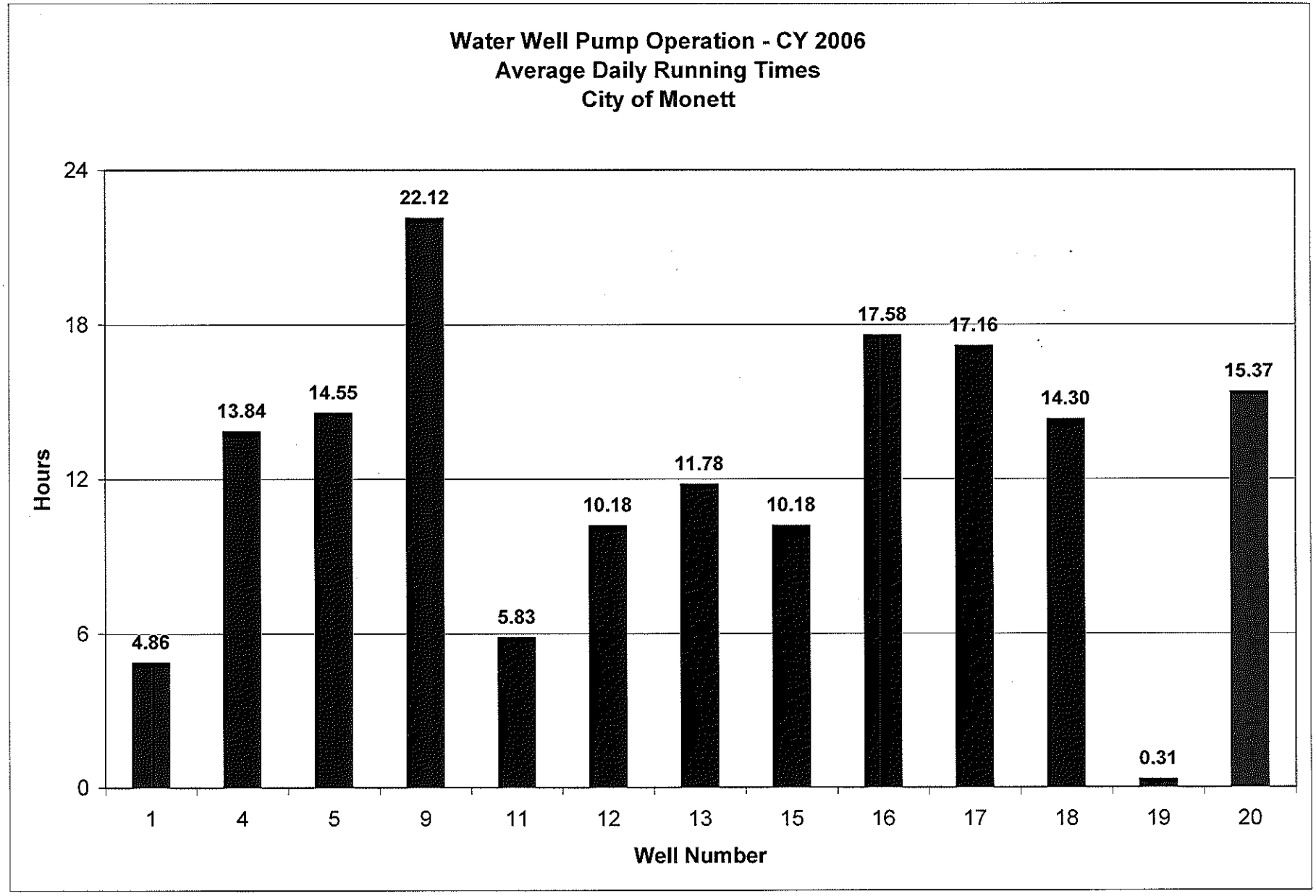

Water Pumped by Well - CY 2006
City of Monett
Millions of Gallons
500
450
400
350
300
250
200
150
100
50
-
23
75
93
451
35
133
38
61
34
56
85
1
159
Well #12 was shut down for 6 months during 2006 because of low water level and high turbidity.
1
4
5
9
11
12
13
15
16
17
18
19
20
Well Number

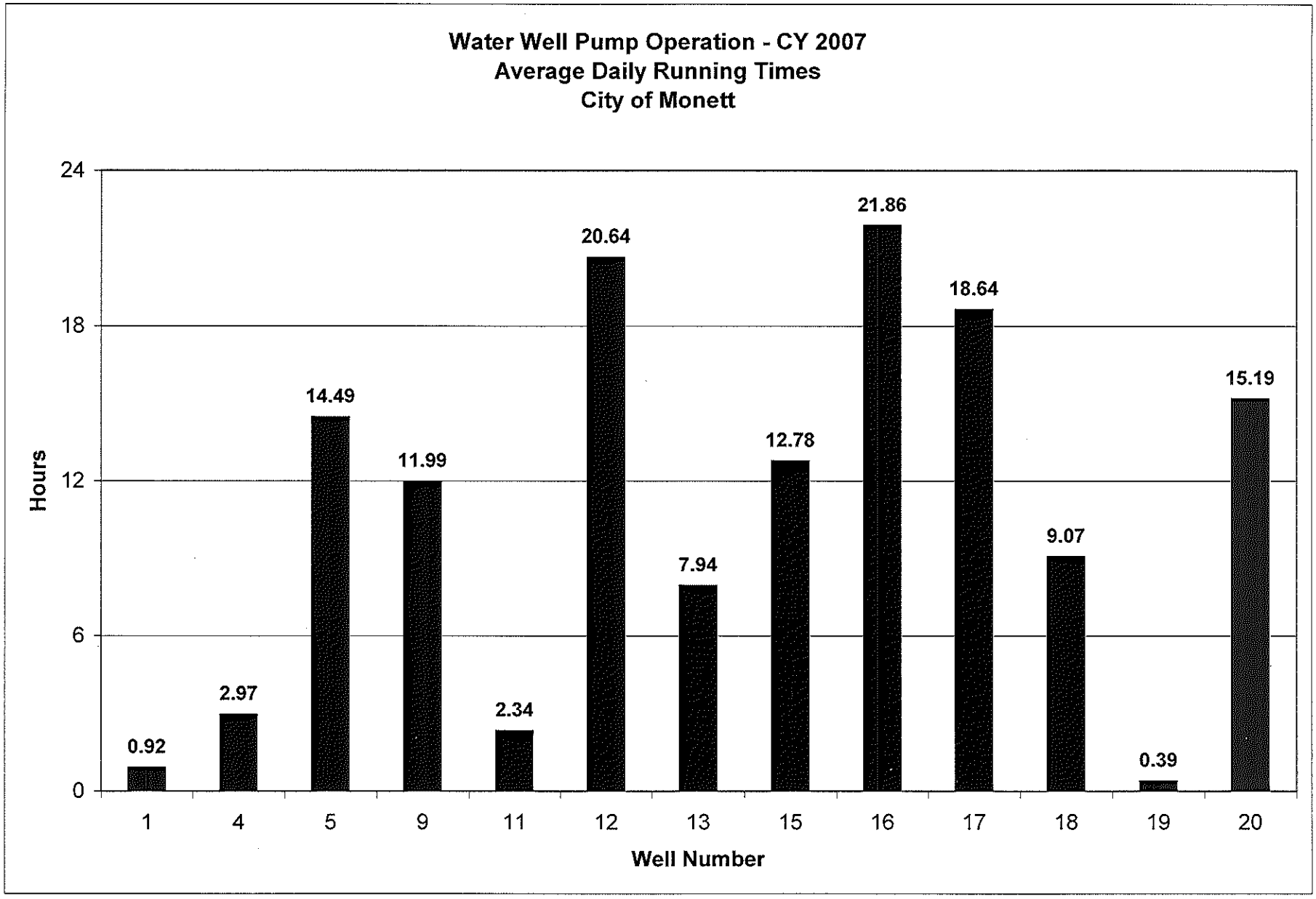

Water Pumped by Well - CY 2007
City of Monett
Millions of Gallons
500
450
400
350
300
250
200
150
100
50
-
5
17
106
264
15
318
27
74
37
83
64
1
166
1
2
3
4
5
6
7
8
9
10
11
12
13
Well Number


Water Well Pump Operation - CY 2003
Average Daily Running Times
City of Monett
Hours
24
18
12
6
0
1.81
3.62
2.12
15.04
2.24
23.82
10.64
12.29
23.76
12.65
16.81
0.22
1
4
5
9
11
12
13
15
16
17
18
19
Well Number


Water Well Pump Operation - CY 2004
Average Daily Running Times
City of Monett
Hours
24
18
12
6
0
1.41
3.80
1.70
11.39
2.88
21.98
12.70
14.75
20.63
13.15
17.71
0.24
0.70
1
4
5
9
11
12
13
15
16
17
18
19
20
Well Number


Water Well Pump Operation - CY 2005
Average Daily Running Times
City of Monett
Hours
24
18
12
6
0
0.71
3.23
1.51
15.26
2.17
23.99
2.80
14.95
17.47
6.44
8.54
0.35
12.58
1
4
5
9
11
12
13
15
16
17
18
19
20
Well Number


Water Well Pump Operation - CY 2006
Average Daily Running Times
City of Monett
Hours
24
18
12
6
0
4.86
13.84
14.55
22.12
5.83
10.18
11.78
10.18
17.58
17.16
14.30
0.31
15.37
1
4
5
9
11
12
13
15
16
17
18
19
20
Well Number


Water Well Pump Operation - CY 2007
Average Daily Running Times
City of Monett
Hours
24
18
12
6
0
0.92
2.97
14.49
11.99
2.34
20.64
7.94
12.78
21.86
18.64
9.07
0.39
15.19
1
4
5
9
11
12
13
15
16
17
18
19
20
Well Number

APPENDIX C

WATER PUMPED TO SYSTEM
(2003-2007)

- AVERAGE DAY PUMPAGE
- PEAK DAY PUMPAGE
- PEAK/AVERAGE RATIOS

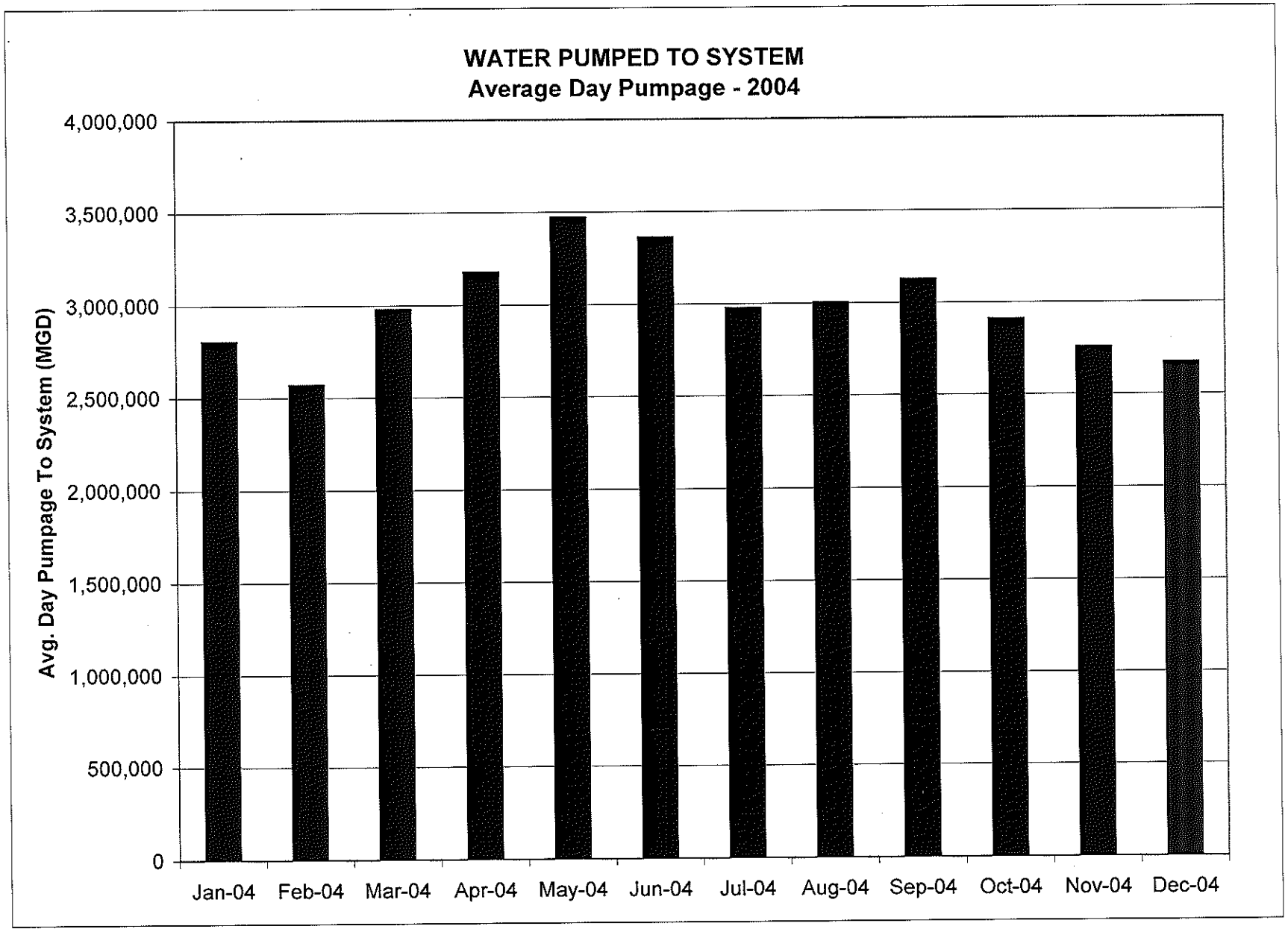
Water Pumped to System
Monett, Missouri

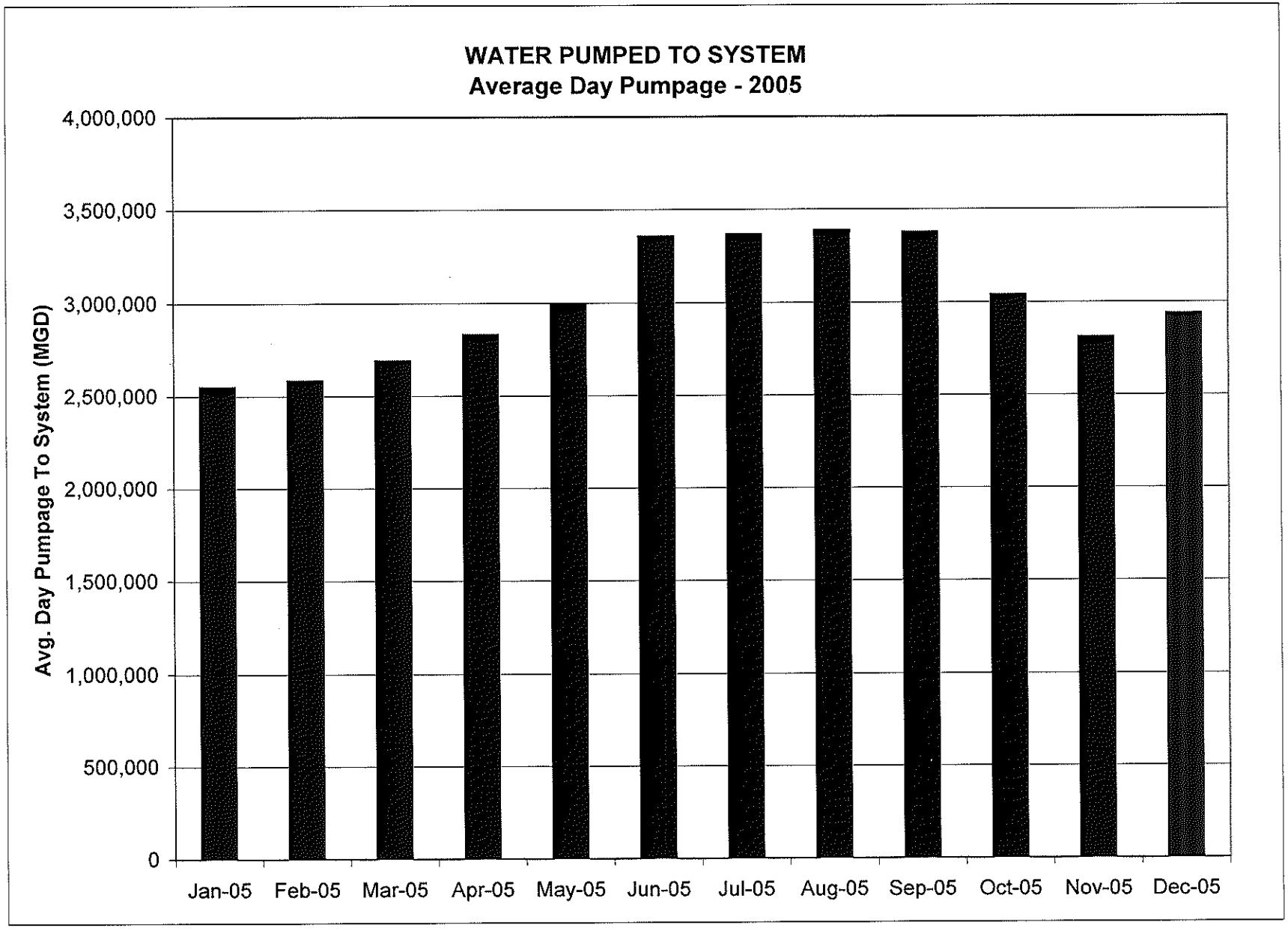
Date	Average Day Pumpage To System (MGD)	Peak Day Pumpage To System (MGD)	Peak Day/Average Day Ratio
Aug-03	3,402,585	4,508,340	1.32
Sep-03	2,754,960	3,719,270	1.35
Oct-03	2,536,451	3,236,390	1.28
Nov-03	2,418,774	4,046,630	1.67
Dec-03	2,560,222	3,369,560	1.32
Jan-04	2,804,784	3,518,060	1.25
Feb-04	2,569,813	3,456,960	1.35
Mar-04	2,978,846	4,913,800	1.65
Apr-04	3,179,242	4,403,250	1.38
May-04	3,471,135	5,935,050	1.71
Jun-04	3,361,495	4,970,660	1.48
Jul-04	2,976,491		
Aug-04	3,002,784	4,079,570	1.36
Sep-04	3,127,816		
Oct-04	2,909,236	3,899,940	1.34
Nov-04	2,754,469		
Dec-04	2,672,496	3,477,980	1.30
Jan-05	2,549,743	3,445,700	1.35
Feb-05	2,583,629	4,014,160	1.55
Mar-05	2,689,464	3,225,690	1.20
Apr-05	2,830,460	3,684,560	1.30
May-05	2,999,575	3,978,950	1.33
Jun-05	3,354,484	4,155,570	1.24
Jul-05	3,364,577	4,597,310	1.37
Aug-05	3,386,746	5,544,290	1.64
Sep-05	3,375,155	4,049,370	1.20
Oct-05	3,038,811	3,868,520	1.27
Nov-05	2,811,883	4,481,840	1.59
Dec-05	2,938,822	3,925,720	1.34

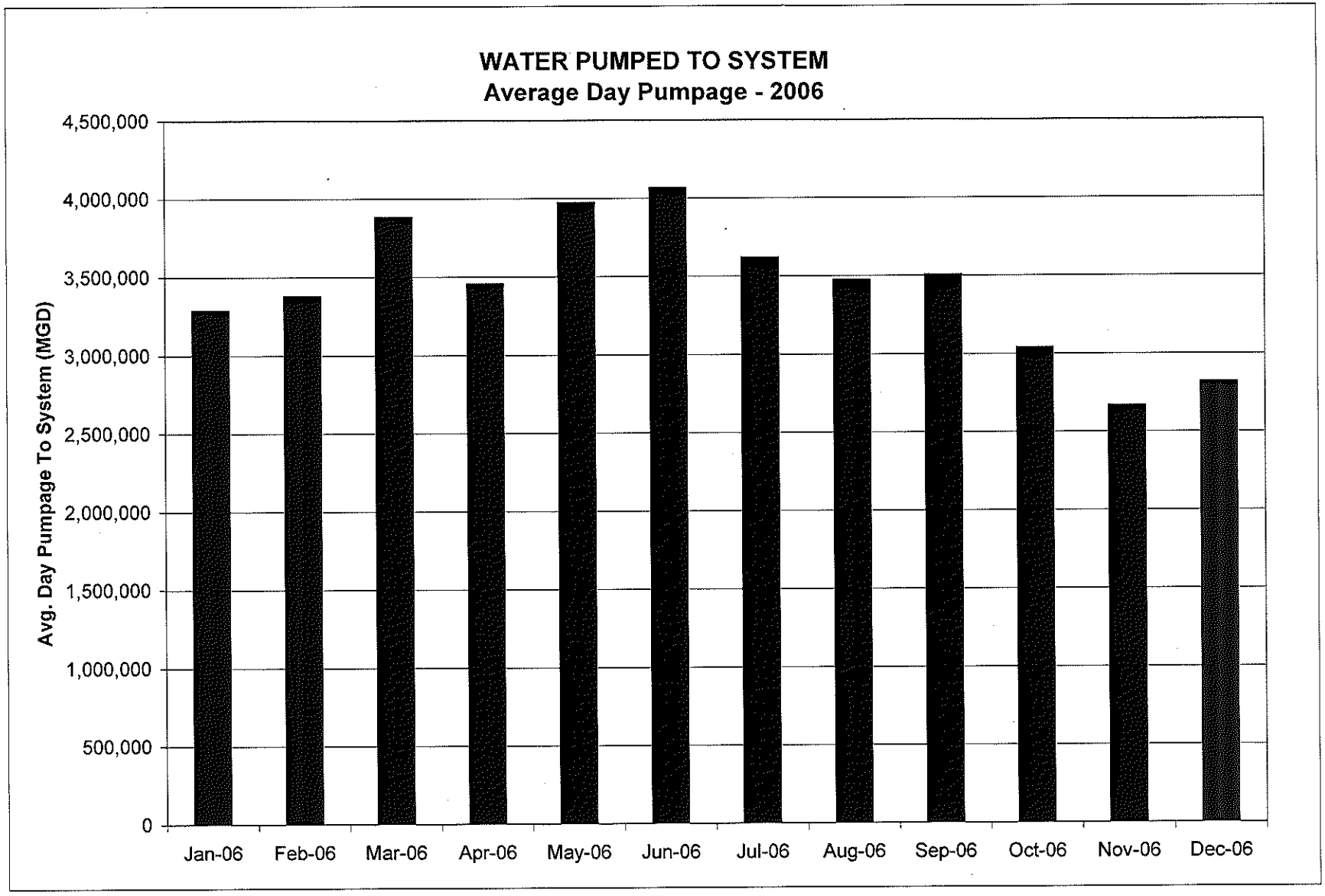
Water Pumped to System
Monett, Missouri

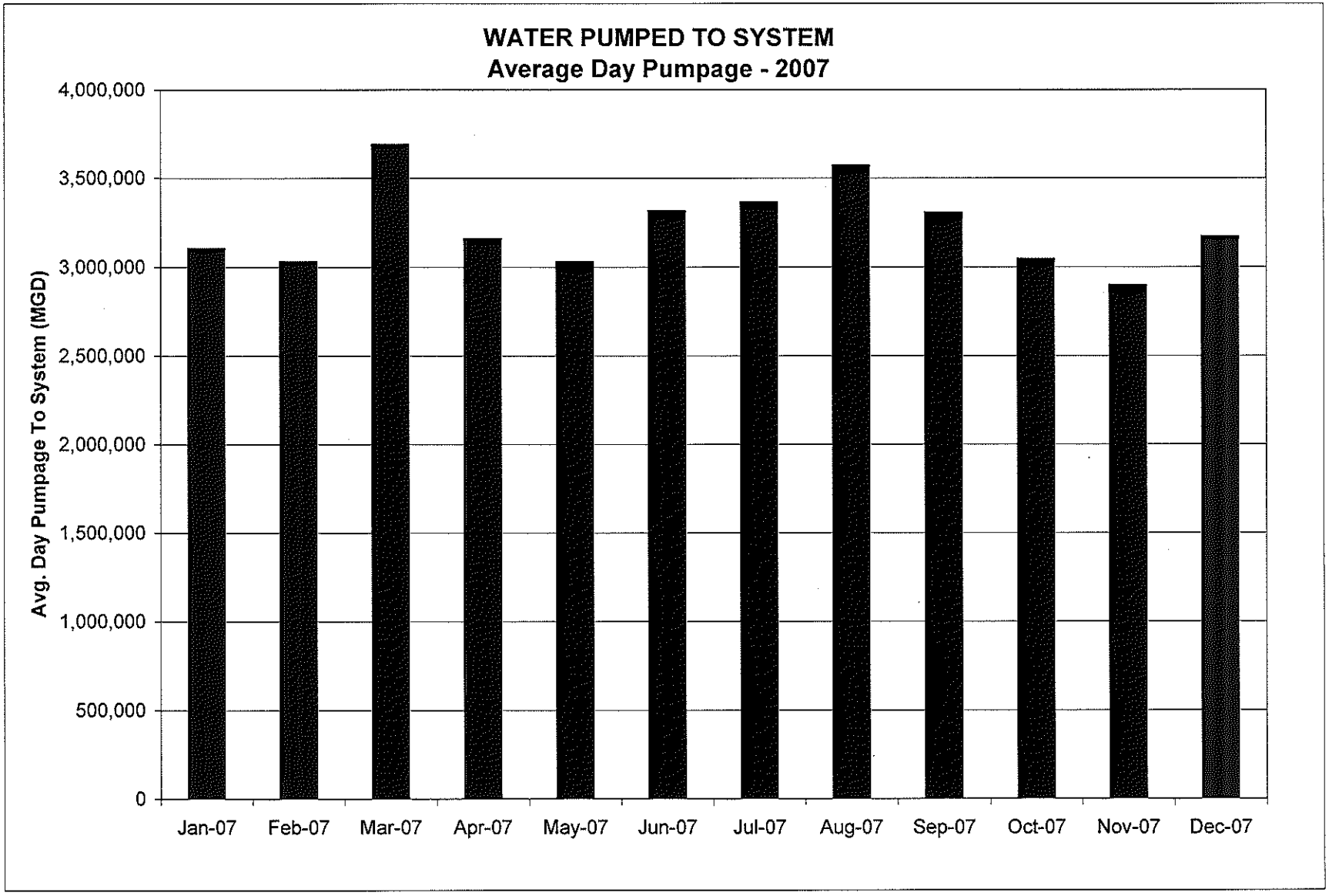
Date	Average Day Pumpage To System (MGD)	Peak Day Pumpage To System (MGD)	Peak Day/Average Day Ratio
Jan-06	3,286,949	4,611,780	1.40
Feb-06	3,379,470	4,936,920	1.46
Mar-06	3,881,841	4,629,520	1.19
Apr-06	3,456,647	4,634,410	1.34
May-06	3,972,939	5,735,050	1.44
Jun-06	4,066,828	5,522,380	1.36
Jul-06	3,621,236	4,537,830	1.25
Aug-06	3,475,028	4,241,410	1.22
Sep-06	3,506,431	4,564,600	1.30
Oct-06	3,040,348	4,029,610	1.33
Nov-06	2,665,694	4,293,890	1.61
Dec-06	2,819,781	5,193,740	1.84
Jan-07	3,106,671	4,345,590	1.40
Feb-07	3,031,718	4,101,750	1.35
Mar-07	3,692,119	5,239,240	1.42
Apr-07	3,159,054	5,079,900	1.61
May-07	3,031,014	3,883,250	1.28
Jun-07	3,315,495	4,816,090	1.45
Jul-07	3,365,382	5,101,990	1.52
Aug-07	3,571,893	5,383,650	1.51
Sep-07	3,304,742	4,432,340	1.34
Oct-07	3,047,065	3,903,340	1.28
Nov-07	2,897,536	4,138,220	1.43
Dec-07	3,170,653	4,660,410	1.47

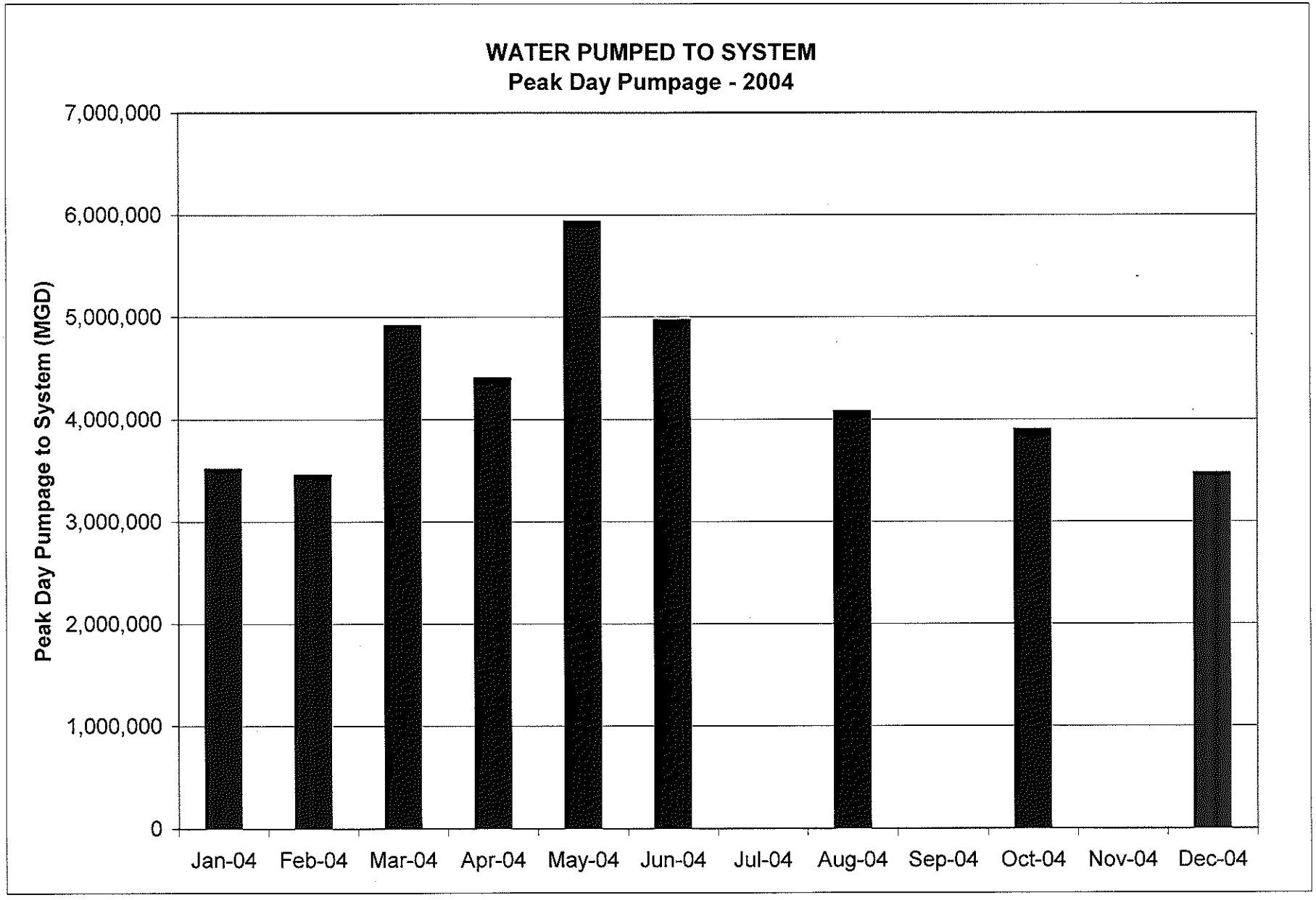
	Peak Day/Average Day Ratio
2003	1.41
2004	1.42
2005	1.37
2006	1.40
2007	1.42
Average	1.40

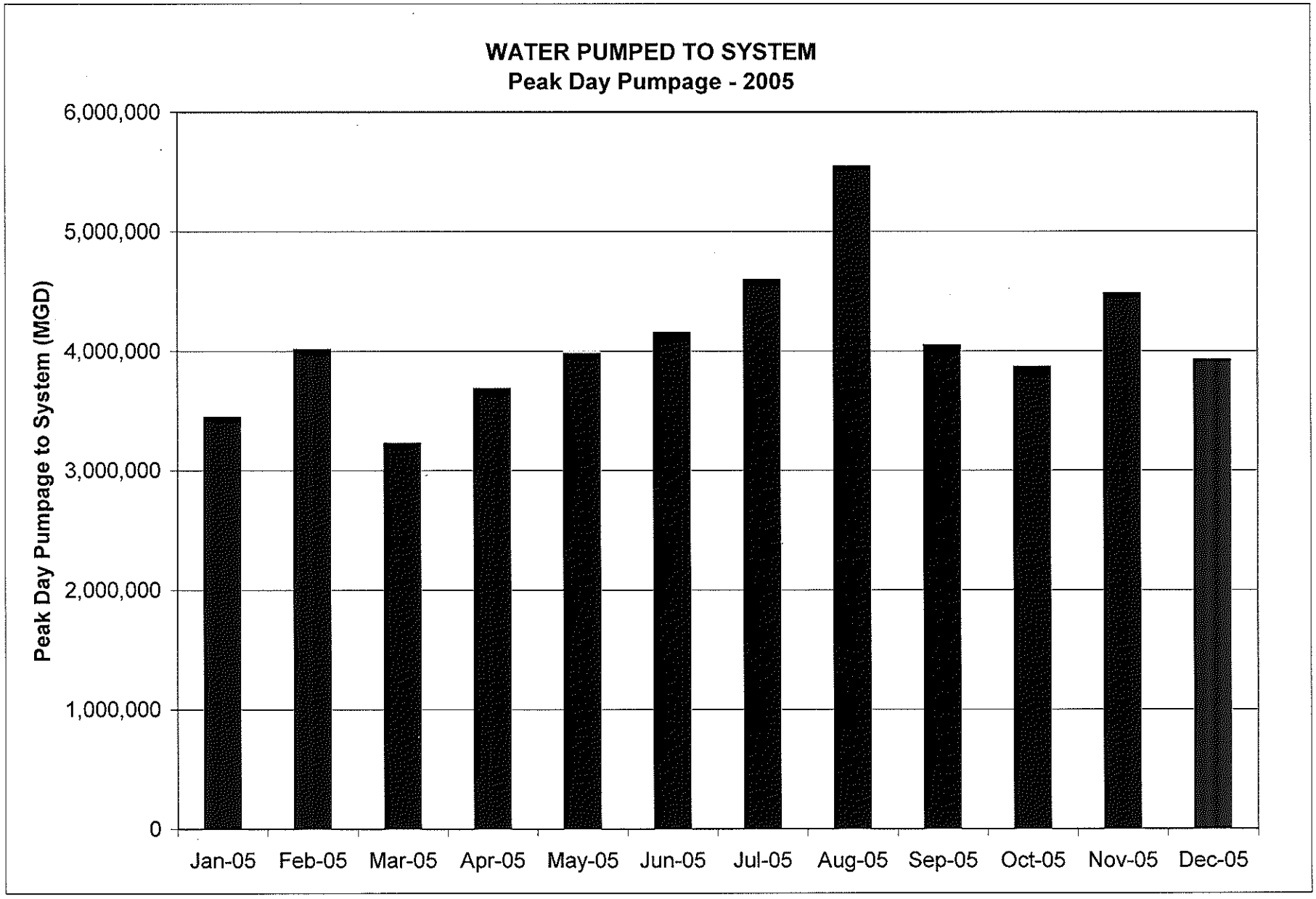

WATER PUMPED TO SYSTEM
Average Day Pumpage - 2004
Avg. Day Pumpage To System (MGD)
4,000,000
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
Jan-04
Feb-04
Mar-04
Apr-04
May-04
Jun-04
Jul-04
Aug-04
Sep-04
Oct-04
Nov-04
Dec-04

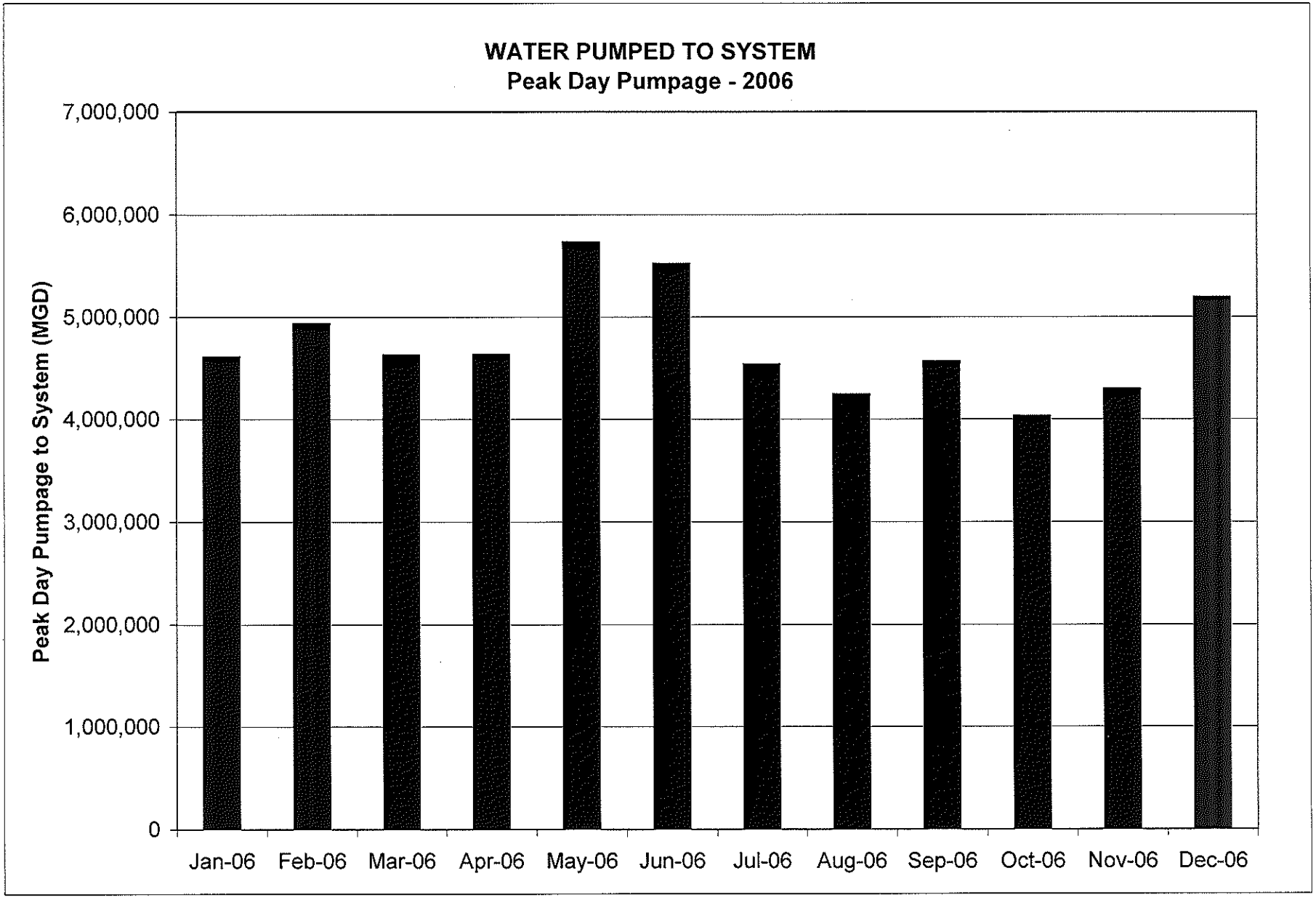

WATER PUMPED TO SYSTEM
Average Day Pumpage - 2005
Avg. Day Pumpage To System (MGD)
4,000,000
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
Jan-05
Feb-05
Mar-05
Apr-05
May-05
Jun-05
Jul-05
Aug-05
Sep-05
Oct-05
Nov-05
Dec-05

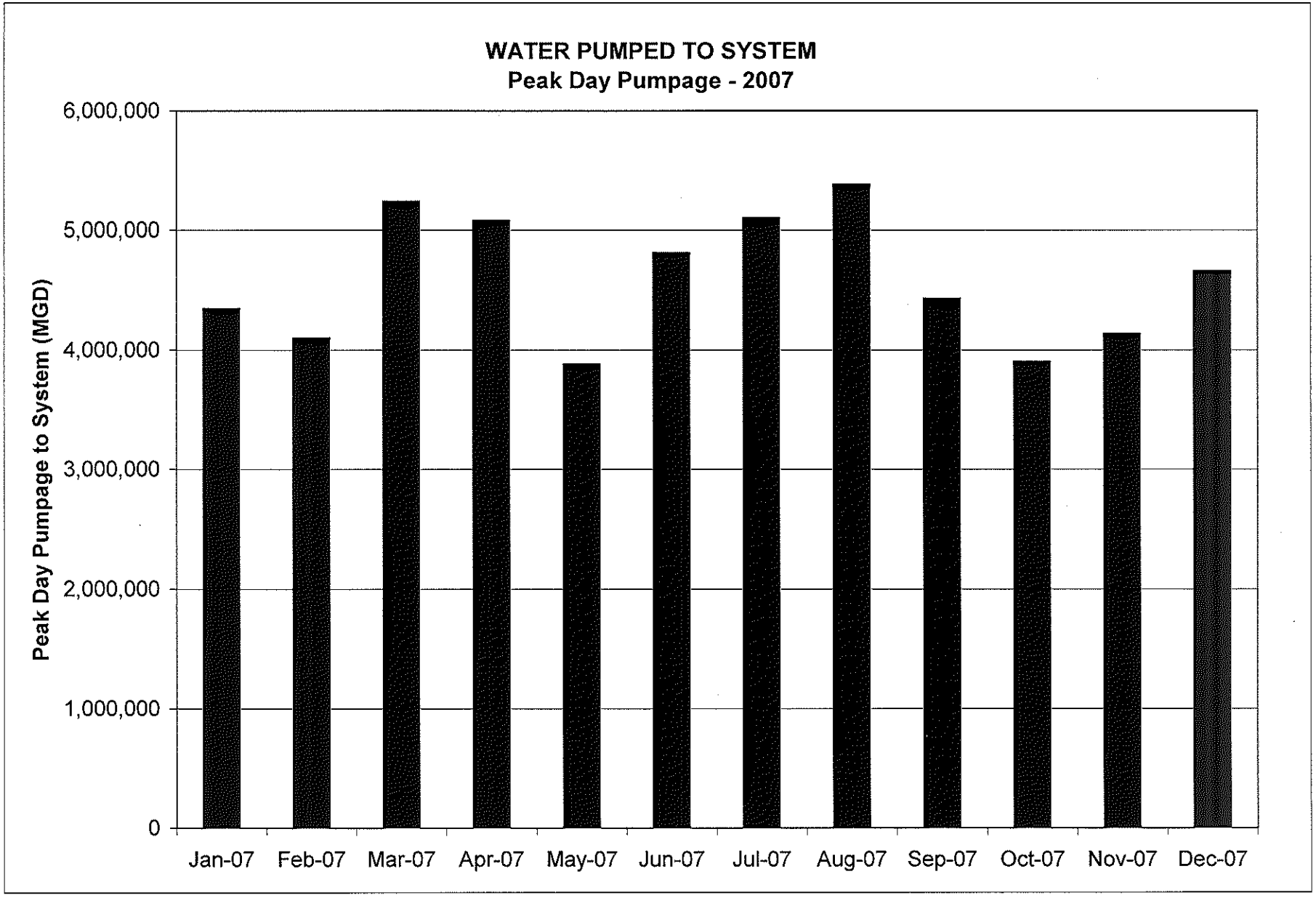

WATER PUMPED TO SYSTEM
Average Day Pumpage - 2006
Avg. Day Pumpage To System (MGD)
4,500,000
4,000,000
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06

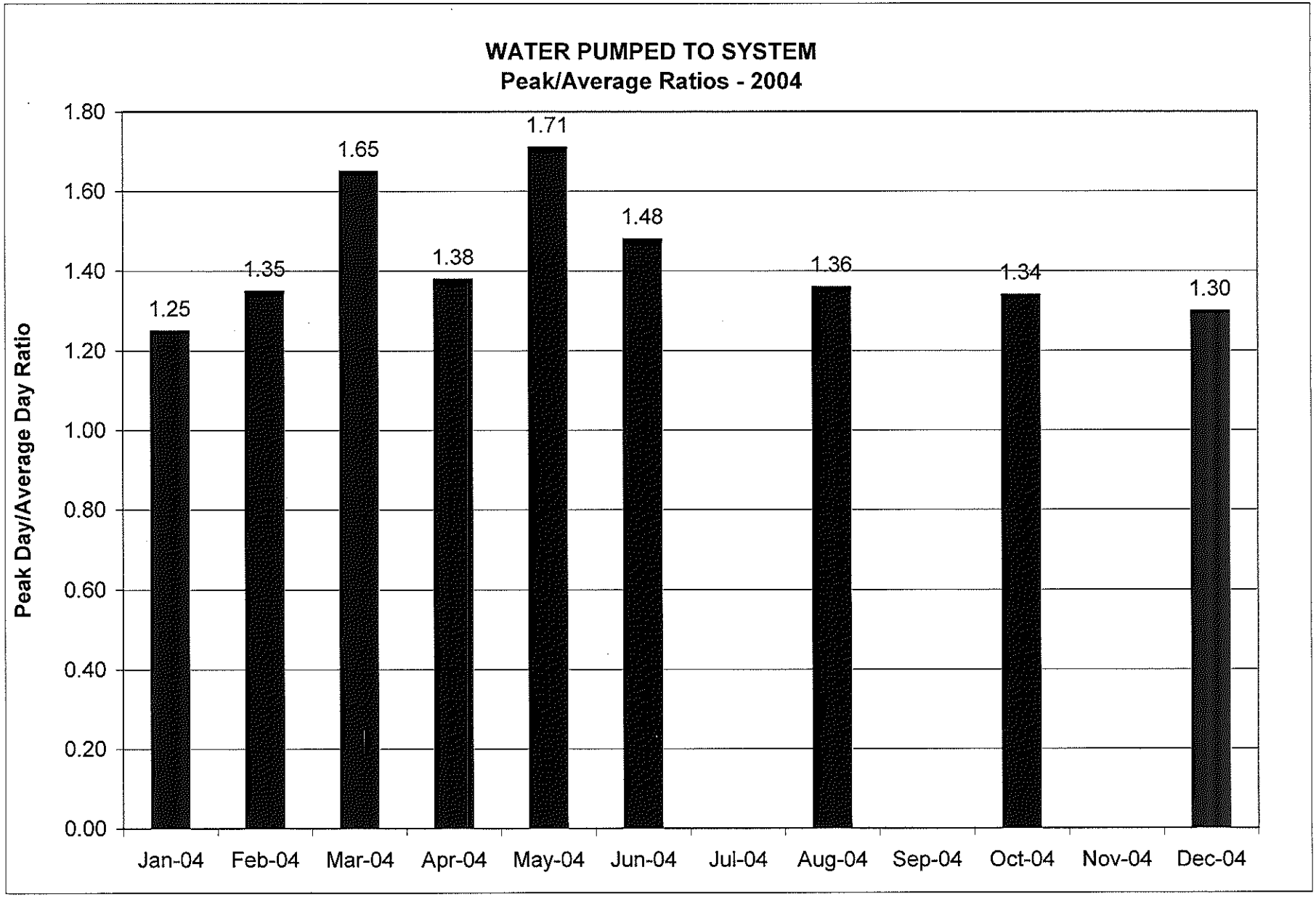

WATER PUMPED TO SYSTEM
Average Day Pumpage - 2007
Avg. Day Pumpage To System (MGD)
4,000,000
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
Jan-07
Feb-07
Mar-07
Apr-07
May-07
Jun-07
Jul-07
Aug-07
Sep-07
Oct-07
Nov-07
Dec-07


WATER PUMPED TO SYSTEM
Peak Day Pumpage - 2004
Peak Day Pumpage to System (MGD)
7,000,000
6,000,000
5,000,000
4,000,000
3,000,000
2,000,000
1,000,000
0
Jan-04
Feb-04
Mar-04
Apr-04
May-04
Jun-04
Jul-04
Aug-04
Sep-04
Oct-04
Nov-04
Dec-04


WATER PUMPED TO SYSTEM
Peak Day Pumpage - 2005
Peak Day Pumpage to System (MGD)
6,000,000
5,000,000
4,000,000
3,000,000
2,000,000
1,000,000
0
Jan-05
Feb-05
Mar-05
Apr-05
May-05
Jun-05
Jul-05
Aug-05
Sep-05
Oct-05
Nov-05
Dec-05


WATER PUMPED TO SYSTEM
Peak Day Pumpage - 2006
Peak Day Pumpage to System (MGD)
7,000,000
6,000,000
5,000,000
4,000,000
3,000,000
2,000,000
1,000,000
0
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06


WATER PUMPED TO SYSTEM
Peak Day Pumpage - 2007
Peak Day Pumpage to System (MGD)
6,000,000
5,000,000
4,000,000
3,000,000
2,000,000
1,000,000
0
Jan-07
Feb-07
Mar-07
Apr-07
May-07
Jun-07
Jul-07
Aug-07
Sep-07
Oct-07
Nov-07
Dec-07


WATER PUMPED TO SYSTEM
Peak/Average Ratios - 2004
Peak Day/Average Day Ratio
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
1.25
1.35
1.65
1.38
1.71
1.48
1.36
1.34
1.30
Jan-04
Feb-04
Mar-04
Apr-04
May-04
Jun-04
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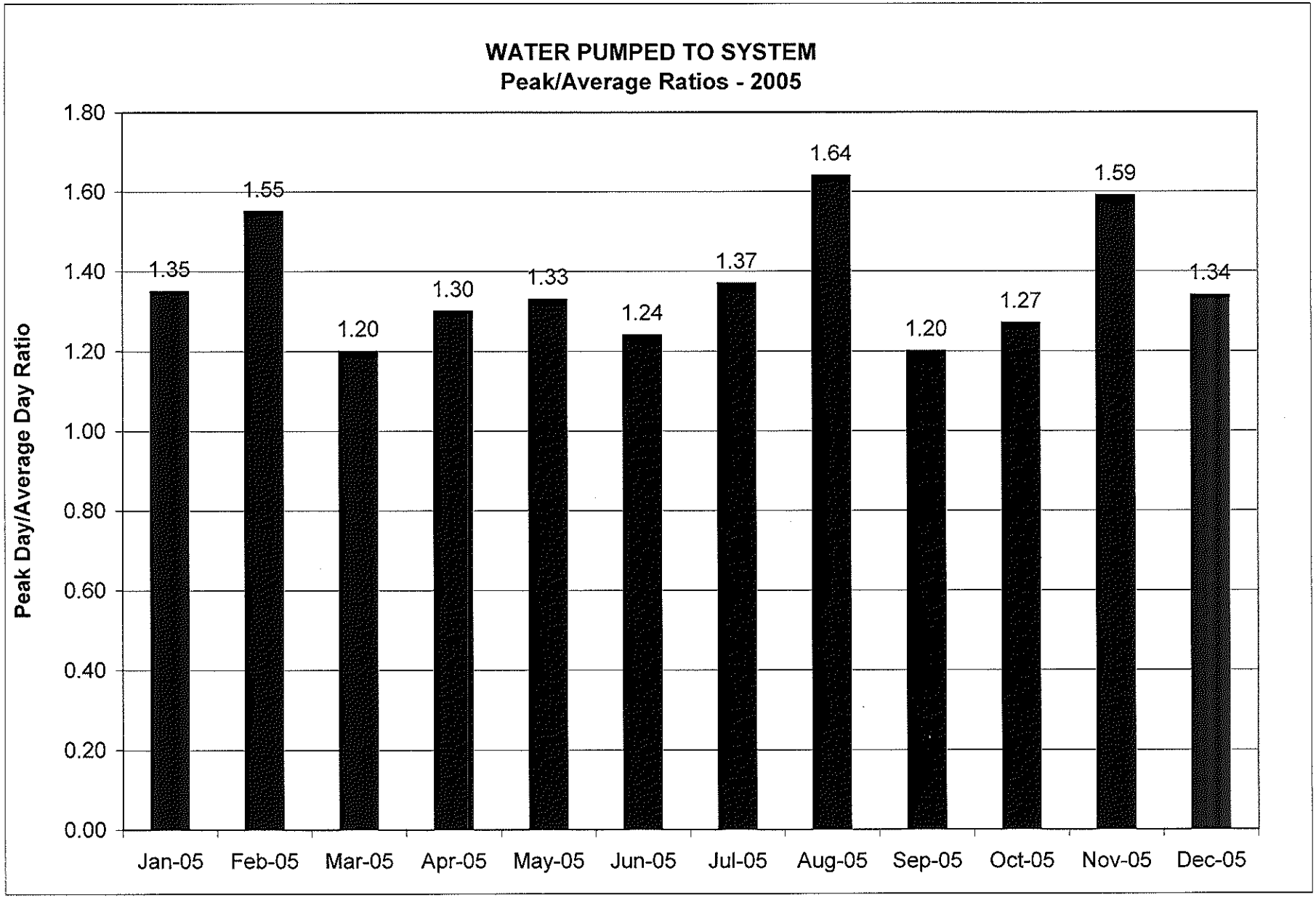
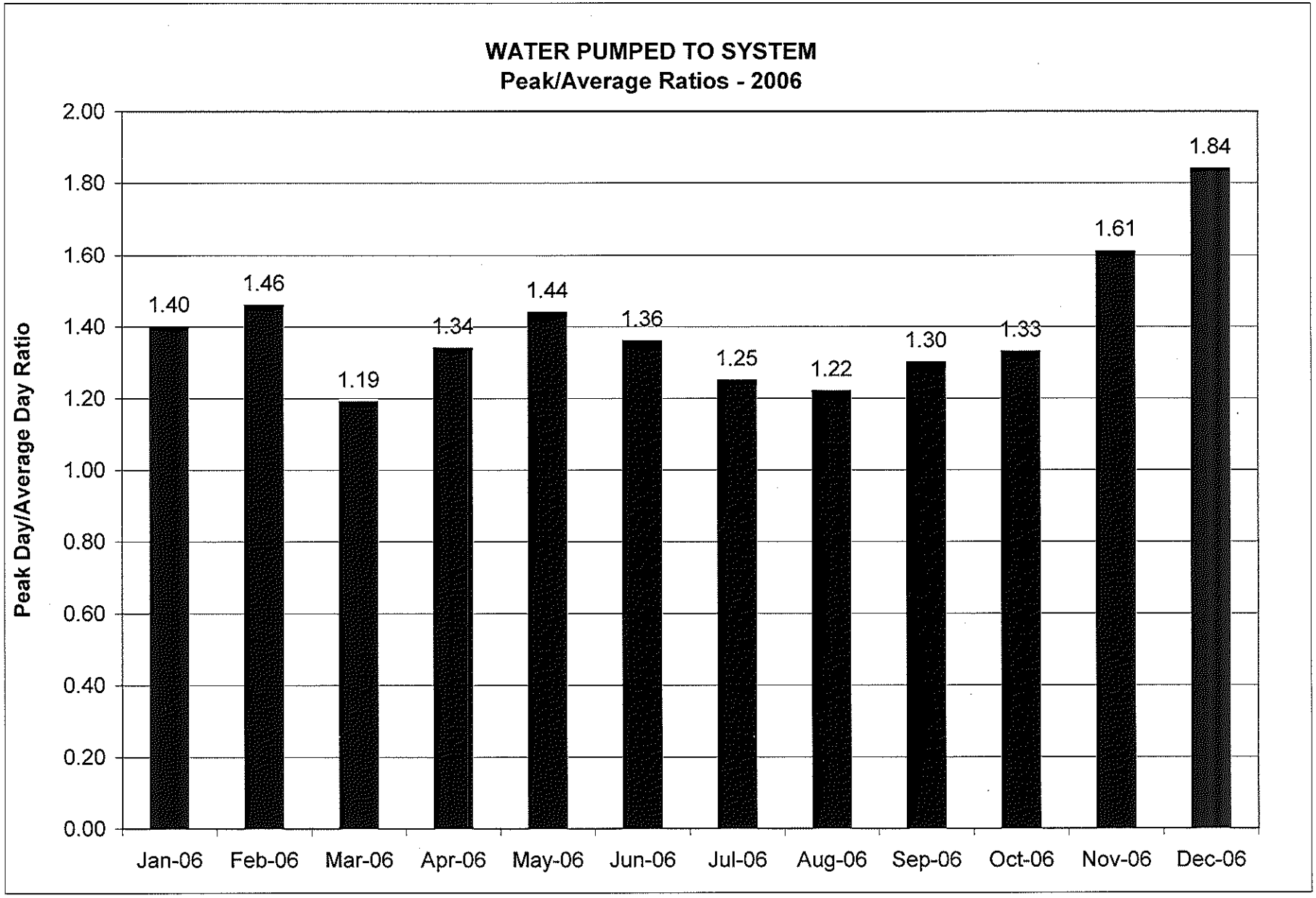
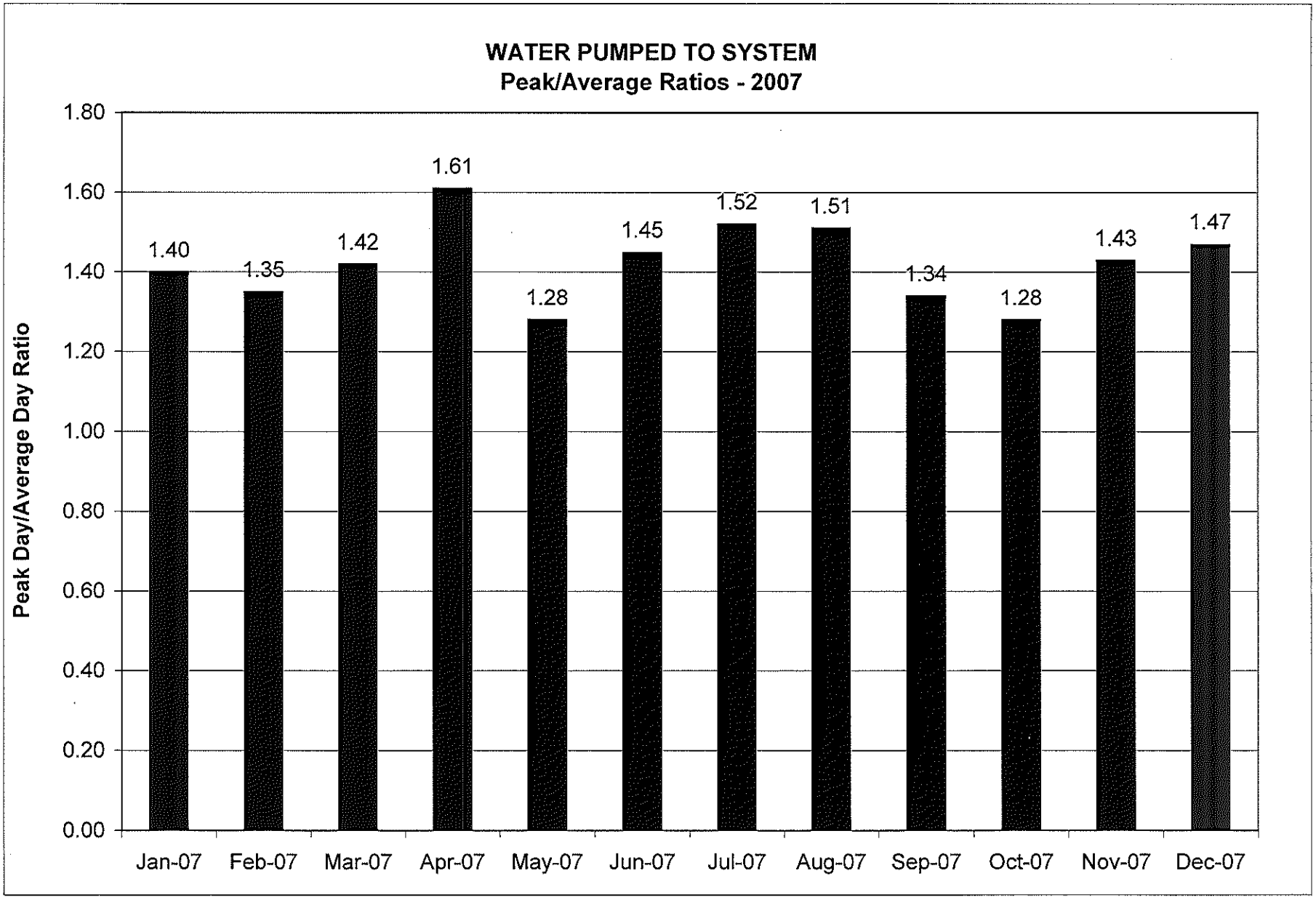
Sep-04
Oct-04
Nov-04
Dec-04


WATER PUMPED TO SYSTEM
Peak/Average Ratios - 2005
Peak Day/Average Day Ratio
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
1.35
1.55
1.20
1.30
1.33
1.24
1.37
1.64
1.20
1.27
1.59
1.34
Jan-05
Feb-05
Mar-05
Apr-05
May-05
Jun-05
Jul-05
Aug-05
Sep-05
Oct-05
Nov-05
Dec-05


WATER PUMPED TO SYSTEM
Peak/Average Ratios - 2006
Peak Day/Average Day Ratio
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
1.40
1.46
1.19
1.34
1.44
1.36
1.25
1.22
1.30
1.33
1.61
1.84
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06


WATER PUMPED TO SYSTEM
Peak/Average Ratios - 2007
Peak Day/Average Day Ratio
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
1.40
1.35
1.42
1.61
1.28
1.45
1.52
1.51
1.34
1.28
1.43
1.47
Jan-07
Feb-07
Mar-07
Apr-07
May-07
Jun-07
Jul-07
Aug-07
Sep-07
Oct-07
Nov-07
Dec-07

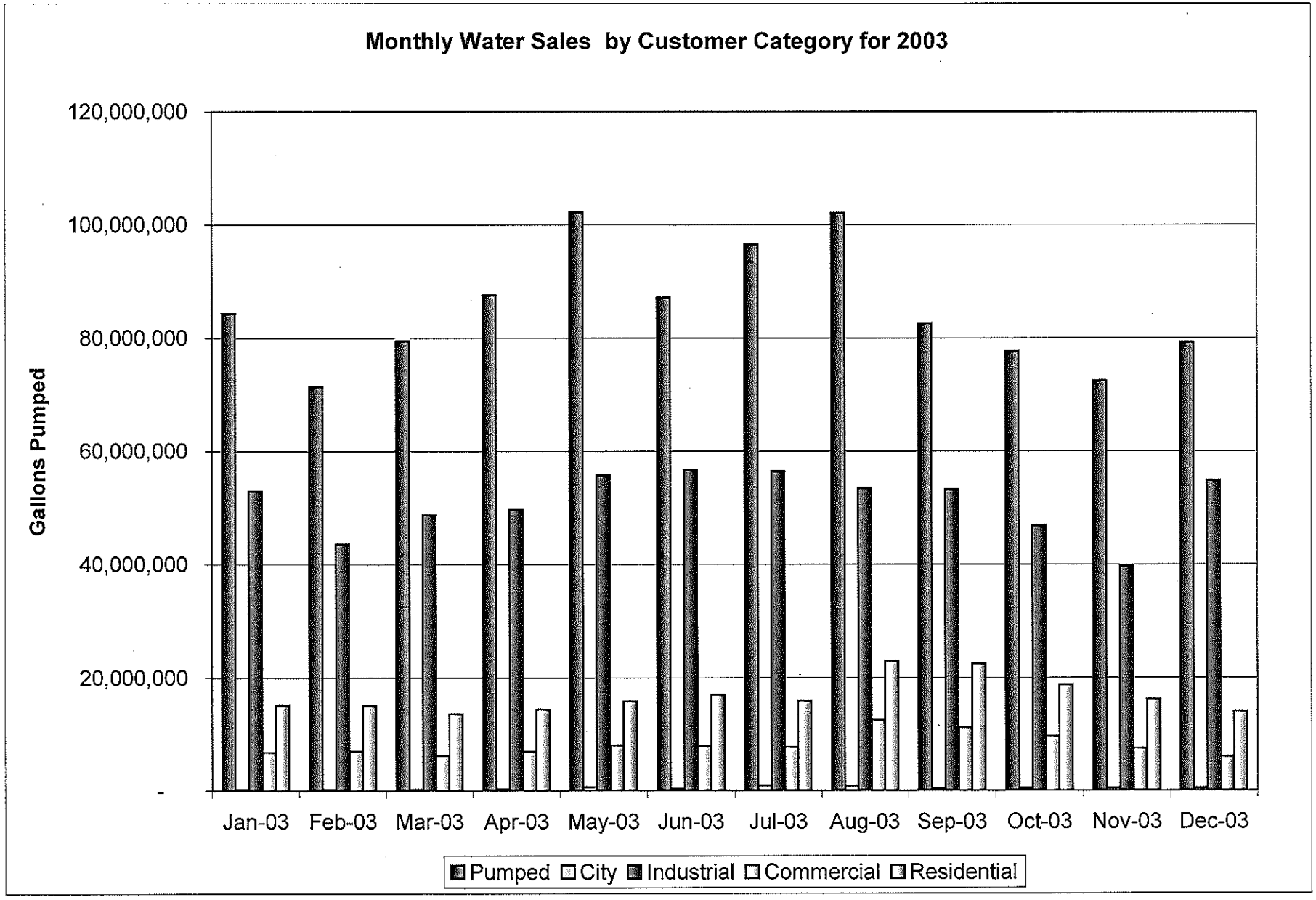
APPENDIX D

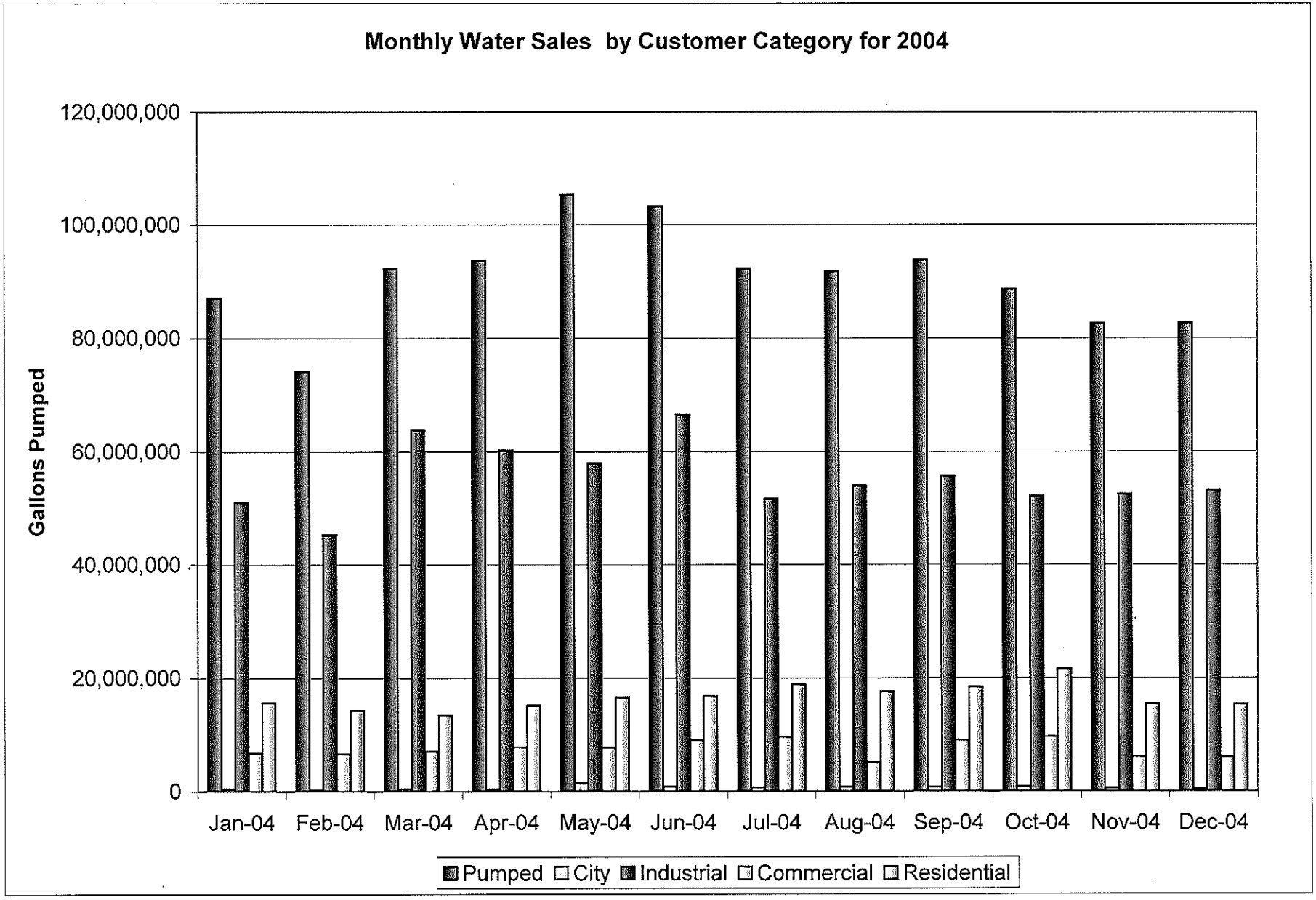
MONTHLY WATER SALES
(2003-2007)

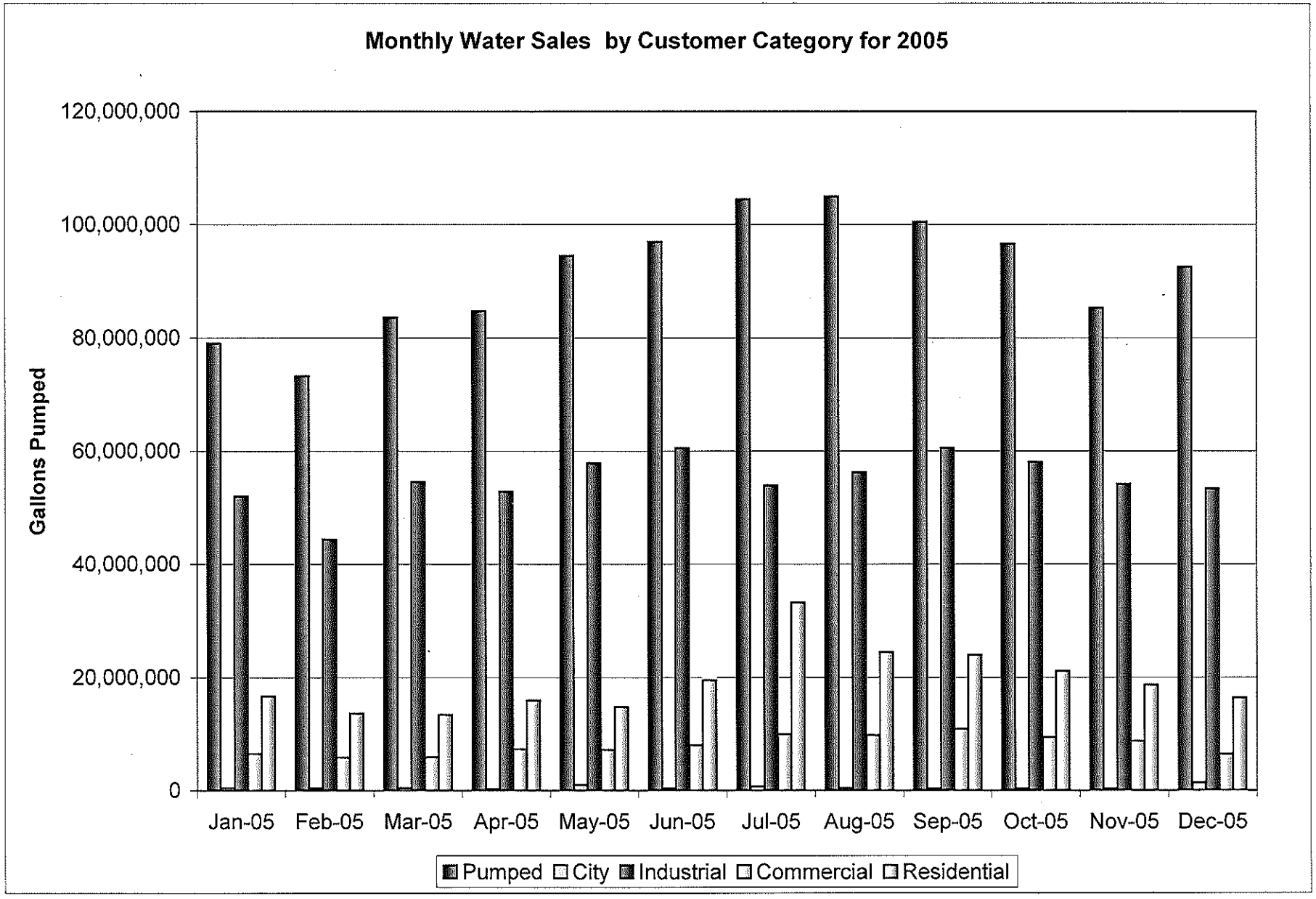
CITY OF MONETT
MONTHLY WATER SALES

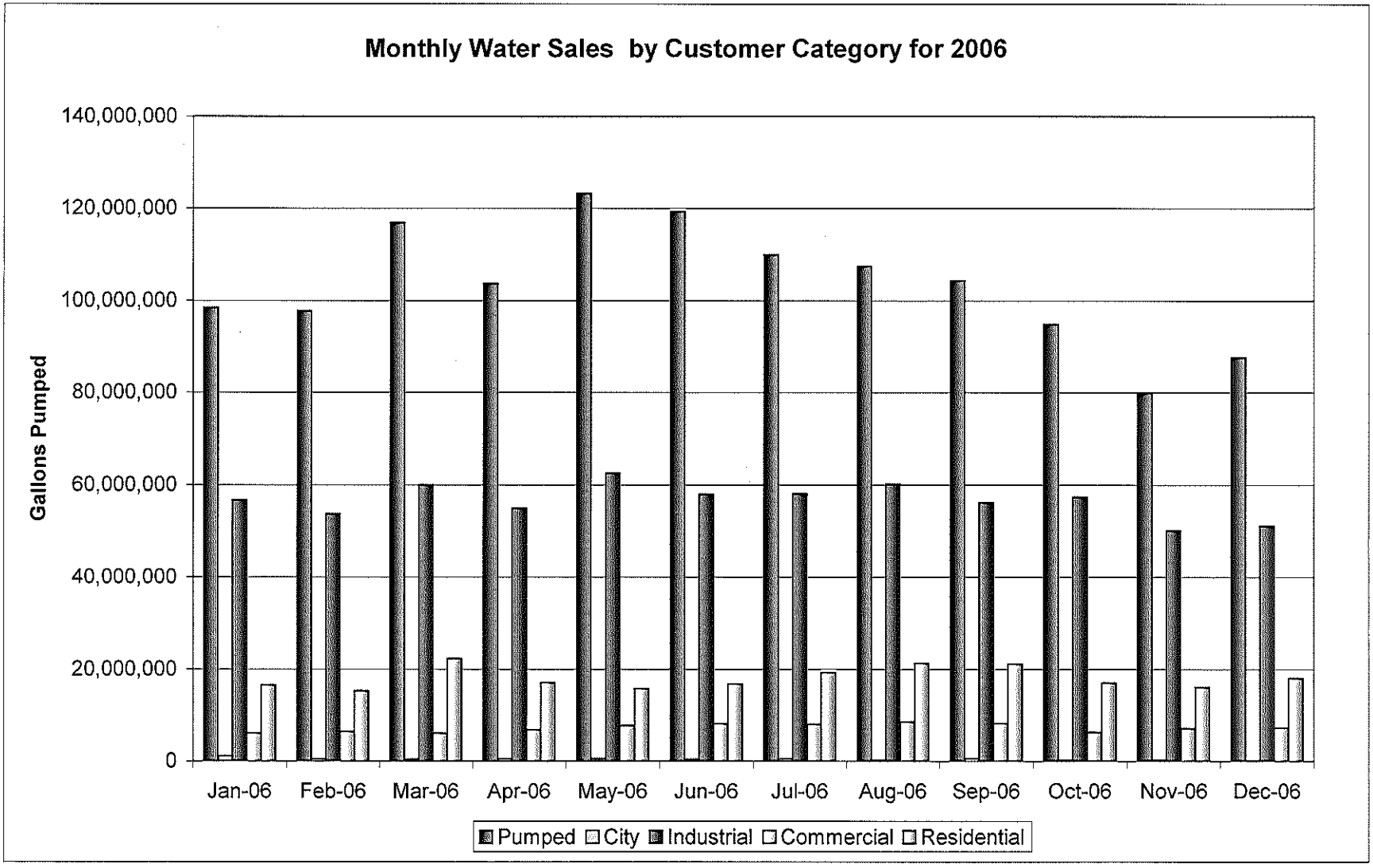
	Pumped	City	Industrial	Commercial	Residential	Irrigation	Known Loss	Total Metered	Loss	% Loss
Jan-03	84,407,930	226,900	52,942,400	6,792,336	15,169,579		5,200	75,136,415	9,271,515	10.98%
Feb-03	71,417,800	224,790	43,624,600	6,972,713	15,117,498		2,078,000	68,017,601	3,400,199	4.76%
Mar-03	79,567,930	227,449	48,746,300	6,216,668	13,559,201		6,100	68,755,718	10,812,212	13.59%
Apr-03	87,636,990	296,440	49,679,700	6,966,710	14,377,050		6,907,700	78,227,600	9,409,390	10.74%
May-03	102,205,920	639,400	55,729,100	8,074,590	15,813,598		12,401,000	92,657,688	9,548,232	9.34%
Jun-03	87,207,060	337,540	56,741,200	7,823,010	16,924,366		52,500	81,878,616	5,328,444	6.11%
Jul-03	96,650,990	910,645	56,433,900	7,744,310	15,904,181			80,993,036	15,657,954	16.20%
Aug-03	102,094,710	819,600	53,467,900	12,526,540	22,931,575		33,200	89,778,815	12,315,895	12.06%
Sep-03	82,648,800	414,500	53,206,400	11,166,570	22,437,871			87,225,341	(4,576,541)	-5.54%
Oct-03	77,650,970	459,000	46,814,600	9,608,490	18,735,462		12,620	75,630,172	2,020,798	2.60%
Nov-03	72,489,160	453,600	39,725,500	7,466,045	16,168,660		703,500	64,517,305	7,971,855	11.00%
Dec-03	79,261,500	442,500	54,816,800	6,005,855	14,030,703		932,000	76,227,858	3,033,642	3.83%
Jan-04	87,041,280	450,600	51,104,000	6,800,556	15,621,500		5,546,050	79,522,706	7,518,574	8.64%
Feb-04	74,134,520	306,200	45,307,300	6,686,963	14,347,194		1,350,000	67,997,657	6,136,863	8.28%
Mar-04	92,213,140	405,200	63,878,500	7,077,155	13,452,110		2,514,100	87,327,065	4,886,075	5.30%
Apr-04	93,680,470	361,200	60,228,000	7,870,587	15,119,774		2,971,710	86,551,271	7,129,199	7.61%
May-04	105,351,350	1,491,700	57,940,400	7,774,465	16,575,517		9,333,130	93,115,212	12,236,138	11.61%
Jun-04	103,259,210	810,227	66,547,600	9,076,345	16,802,783		4,851,000	98,087,955	5,171,255	5.01%
Jul-04	92,271,230	675,700	51,679,500	9,635,268	18,885,327		242,600	81,118,395	11,152,835	12.09%
Aug-04	91,772,280	823,039	53,992,200	5,112,950	17,591,494		1,500,000	79,019,683	12,752,597	13.90%
Sep-04	93,834,500	823,039	55,664,400	9,062,160	18,402,910		250,000	84,202,509	9,631,991	10.26%
Oct-04	88,625,220	811,245	52,161,100	9,655,830	21,569,330		3,500,000	87,697,505	927,715	1.05%
Nov-04	82,634,080	557,390	52,487,300	6,183,720	15,427,523		2,000,000	76,655,933	5,978,147	7.23%
Dec-04	82,674,440	429,900	53,186,200	6,076,817	15,336,066		1,200,000	76,228,983	6,445,457	7.80%
Jan-05	79,047,010	453,400	51,988,200	6,494,270	16,740,671		200,000	75,876,541	3,170,469	4.01%
Feb-05	73,265,000	430,700	44,380,500	5,878,470	13,643,560		1,635,000	65,968,230	7,296,770	9.96%
Mar-05	83,618,530	439,001	54,604,100	5,868,930	13,412,420		500,000	74,824,451	8,794,079	10.52%
Apr-05	84,756,340	289,800	52,867,300	7,337,250	15,935,602		550,000	76,979,952	7,776,388	9.17%
May-05	94,595,170	1,013,600	57,897,300	7,177,963	14,773,032		1,900,000	82,761,895	11,833,275	12.51%
Jun-05	97,022,990	351,872	60,516,100	7,996,640	19,482,645		1,230,000	89,577,257	7,445,733	7.67%
Jul-05	104,451,100	737,725	53,992,000	9,930,106	33,209,935		500,000	98,369,766	6,081,334	5.82%
Aug-05	104,952,870	429,150	56,237,800	9,756,031	24,446,838		1,250,000	92,119,819	12,833,051	12.23%
Sep-05	100,471,450	333,200	60,542,091	10,868,374	23,958,276		500,000	96,201,941	4,269,509	4.25%
Oct-05	96,689,570	333,200	58,015,400	9,420,534	21,072,839		500,000	89,341,973	7,347,597	7.60%
Nov-05	85,330,740	269,748	54,184,700	8,695,430	18,656,832		1,350,000	83,156,710	2,174,030	2.55%
Dec-05	92,523,980	1,377,300	53,377,000	6,431,070	16,400,072		6,777,000	84,362,442	8,161,538	8.82%

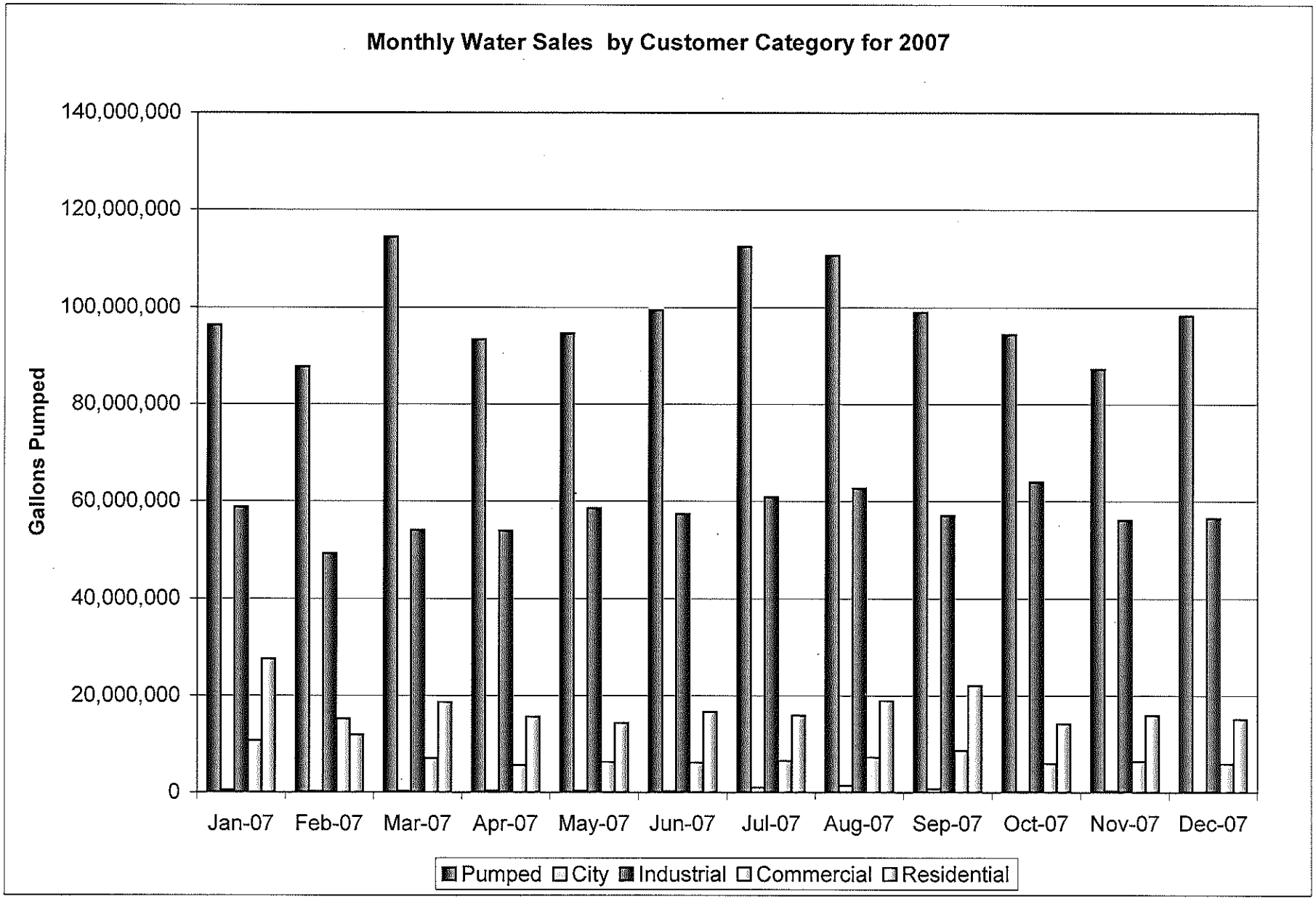
	Pumped	City	Industrial	Commercial	Residential	Irrigation	Known Loss	Total Metered	Loss	% Loss
Jan-06	98,455,420	1,083,700	56,703,600	6,104,759	16,540,656		12,785,000	93,217,715	5,237,705	5.32%
Feb-06	97,775,400	508,410	53,675,800	6,457,080	15,264,861		17,687,000	93,593,151	4,182,249	4.28%
Mar-06	116,873,490	427,890	59,997,200	6,060,670	22,296,285		27,000,000	115,782,045	1,091,445	0.93%
Apr-06	103,699,420	480,000	54,983,834	6,770,443	17,047,240		13,000,000	92,281,517	11,417,903	11.01%
May-06	123,222,610	544,800	62,576,560	7,721,635	15,757,466		27,112,880	113,713,341	9,509,269	7.72%
Jun-06	119,297,440	453,884	58,010,995	8,119,469	16,789,459		20,500,000	103,873,807	15,423,633	12.93%
Jul-06	110,056,560	508,182	58,104,985	8,044,350	19,340,464		3,500,000	89,497,981	20,558,579	18.68%
Aug-06	107,490,780	256,510	60,221,200	8,579,892	21,251,506	7,730,265	1,600,000	99,639,373	7,851,407	7.30%
Sep-06	104,294,090	534,609	56,180,470	8,155,435	21,084,246	5,596,310	11,500,000	103,051,070	1,243,020	1.19%
Oct-06	94,785,700	209,960	57,403,690	6,281,401	17,074,084	3,146,580	3,500,000	87,615,715	7,169,985	7.56%
Nov-06	79,970,830	219,640	50,114,340	7,102,580	16,064,792	2,455,340	800,000	76,756,692	3,214,138	4.02%
Dec-06	87,650,550	129,780	51,181,830	7,217,974	18,046,460	4,732,124	5,000,000	86,308,168	1,342,382	1.53%
Jan-07	96,306,800	467,200	58,786,300	10,695,231	27,590,264	210,150	1,500,000	99,249,145	(2,942,345)	-3.06%
Feb-07	87,732,490	211,950	49,245,900	15,181,465	11,826,598	25,000	7,000,000	83,490,913	4,241,577	4.83%
Mar-07	114,455,700	235,384	54,082,690	7,029,495	18,672,583	57,600	30,500,000	110,577,752	3,877,948	3.39%
Apr-07	93,431,850	381,600	53,948,930	5,613,847	15,704,354	96,510	13,200,000	88,945,241	4,486,609	4.80%
May-07	94,621,690	381,250	58,567,330	6,265,240	14,396,503	428,851	2,500,000	82,539,174	12,082,516	12.77%
Jun-07	99,464,850	304,260	57,360,720	6,201,700	16,682,675	1,298,180	17,500,000	99,347,535	117,315	0.12%
Jul-07	112,582,670	983,740	60,880,580	6,524,390	15,930,749	1,290,660	12,000,000	97,610,119	14,972,551	13.30%
Aug-07	110,728,670	1,429,360	62,683,320	7,301,240	18,945,951	4,532,229	1,600,000	96,492,100	14,236,570	12.86%
Sep-07	98,969,970	779,960	57,053,380	8,631,932	22,053,620	3,018,360	3,708,000	95,245,252	3,724,718	3.76%
Oct-07	94,459,010	160,400	63,911,090	5,958,402	14,196,546	3,158,400	1,600,000	88,984,838	5,474,172	5.80%
Nov-07	87,285,720	272,410	56,158,530	6,399,380	15,920,978	1,163,783	800,000	80,715,081	6,570,639	7.53%
Dec-07	98,291,140	136,250	56,524,880	5,880,060	15,159,641	934,357	11,488,000	90,123,188	8,167,952	8.31%


Monthly Water Sales by Customer Category for 2003
Gallons Pumped
120,000,000
100,000,000
80,000,000
60,000,000
40,000,000
20,000,000
-
Jan-03
Feb-03
Mar-03
Apr-03
May-03
Jun-03
Jul-03
Aug-03
Sep-03
Oct-03
Nov-03
Dec-03
Pumped
City
Industrial
Commercial
Residential


Monthly Water Sales by Customer Category for 2004
Gallons Pumped
120,000,000
100,000,000
80,000,000
60,000,000
40,000,000
20,000,000
0
Jan-04
Feb-04
Mar-04
Apr-04
May-04
Jun-04
Jul-04
Aug-04
Sep-04
Oct-04
Nov-04
Dec-04
Pumped
City
Industrial
Commercial
Residential


Monthly Water Sales by Customer Category for 2005
Gallons Pumped
120,000,000
100,000,000
80,000,000
60,000,000
40,000,000
20,000,000
0
Jan-05
Feb-05
Mar-05
Apr-05
May-05
Jun-05
Jul-05
Aug-05
Sep-05
Oct-05
Nov-05
Dec-05
Pumped
City
Industrial
Commercial
Residential


Monthly Water Sales by Customer Category for 2006
Gallons Pumped
140,000,000
120,000,000
100,000,000
80,000,000
60,000,000
40,000,000
20,000,000
0
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Pumped
City
Industrial
Commercial
Residential


Monthly Water Sales by Customer Category for 2007
Gallons Pumped
140,000,000
120,000,000
100,000,000
80,000,000
60,000,000
40,000,000
20,000,000
0
Jan-07
Feb-07
Mar-07
Apr-07
May-07
Jun-07
Jul-07
Aug-07
Sep-07
Oct-07
Nov-07
Dec-07
Pumped
City
Industrial
Commercial
Residential

APPENDIX E

ANNUAL WATER SALES
(2003-2007)

City of Monett Metered Water Consumption by Customer Category

	2003		2004		2005	
City	5,452,364	0.53%	7,944,440	0.73%	6,458,696	0.59%
Residential	201,169,744	19.66%	199,131,528	18.31%	231,732,722	21.13%
Commercial	97,363,837	9.52%	91,012,816	8.37%	95,855,068	8.74%
Industrial	611,928,400	59.80%	664,176,500	61.07%	658,602,491	60.05%
Irrigation	-	-	-	-	-	-
Known Loss (flushing, waste)	23,131,820	2.26%	35,258,590	3.24%	16,892,000	1.54%
Unaccounted Loss	84,193,595	8.23%	89,966,846	8.27%	87,183,873	7.95%
Total Pumped	1,023,239,760	100.00%	1,087,490,720	100.00%	1,096,724,850	100.00%

	2006		2007	
City	5,357,365	0.43%	5,743,764	0.48%
Residential	216,557,519	17.41%	207,080,462	17.43%
Commercial	86,615,688	6.97%	91,682,382	7.72%
Industrial	679,154,504	54.61%	689,203,650	58.00%
Irrigation	23,660,619	1.90%	16,214,080	1.36%
Known Loss (flushing, waste)	143,984,880	11.58%	103,396,000	8.70%
Unaccounted Loss	88,241,715	7.10%	75,010,222	6.31%
Total Pumped	1,243,572,290	100.00%	1,188,330,560	100.00%

APPENDIX F

EVALUATIONOF DEEP-WELLS-ONLY ALTERNATIVE

APPENDIX F
EVALUATION OF DEEP-WELLS-ONLY ALTERNATIVE

The following sets forth an alternative means of providing for Monett's current and future water supply needs through construction of new deep wells and associated waterlines, instead of through the construction of the recommended water treatment facility. In evaluating the required water supply, it is felt that without treatment, the water from Wells No. 9 and 12 should not be viewed as a reliable source of supply and an adequate number of wells would need to be constructed to replace these two wells.

In order to meet the current peak day water demand of 2990 GPM (4.31 MGD), while limiting pump operation to 16 hours per day, 4485 GPM total pumping capacity is needed. The existing pumping capacity of all wells, excluding Wells No. 9 and 12, equals 2775 GPM. The additional capacity needed to meet current peak day demand without Wells No. 9 and 12 equals 4485 GPM less 2775 GPM, or 1710 GPM.

Construction of a waterline from town to the airport would allow the use of Well No. 19 to meet in-town needs, while also allowing for the construction of additional wells along Highway 60. With the 550 GPM capacity of Well No. 19 available for in-town use, an additional 1710 GPM less 550 GPM, or 1160 GPM well capacity is needed to meet current peak day demands. Assuming an average capacity of 300 GPM per new well, four additional wells would be needed to provide the required 1160 GPM. For purposes of estimating costs, it is reasonable to assume that five wells would need to be drilled to obtain four usable wells.

The estimated cost to build the needed waterline and wells to meet current needs, assuming Wells No. 9 and 12 are taken out of service, is as follows. To allow for a meaningful comparison of this option, costs associated with other recommended distribution system improvements are also provided below.

Construction Cost – Supply

New Well Pump at Airport	$50,000
Wells, Complete, 4 @ $350,000 Ea.	1,400,000
Well, Assumed Unusable	100,000
12" Waterline, 16,000 LF @ $40/LF	640,000
16" Waterline, 22,000 LF @ $60/LF	1,320,000
Highway and RR Crossing (4), 600 LF	270,000
Miscellaneous Interconnects, Etc.	120,000
Subtotal Supply	$3,900,000

Construction Cost – Distribution

Northeast Area	
12" Waterline, 6,000 LF @ $40/LF	$240,000
Highway and RR Crossings, 250/LF	75,000
Miscellaneous	35,000
Southeast Area	
12" Waterline, 11,000 LF @ $40/LF	$440,000
RR Crossing, 100 LF	30,000
Miscellaneous	30,000
Southwest Area	
10" Waterline, 5,000 LF @ $35/LF	$175,000
Miscellaneous	25,000
Booster Station at Industrial Tanks	
Pumps and Building (1000 GPM)	300,000
Miscellaneous Interconnects, Etc.	100,000
Subtotal Distribution	$1,450,000
Total Construction Cost	$5,350,000
Contingencies (10%)	535,000
Engineering Design & Construction	590,000
Construction Inspection	220,000
Administrative, Legal, Etc.	105,000
Total Capital Cost to Meet Today's Needs Without Wells No. 9 and 12	$6,800,000

In order to meet the estimated peak day demand of 4190 GPM (6.03 MGD) by the year 2030, while limiting pump operation to 16 hours per day, 6285 GPM total pumping capacity is needed. Assuming that the preceding improvements were completed to meet current needs, and also assuming that current well production declines by 10 percent through year 2030, the additional capacity needed by year 2030 equals 6285 GPM less 4485 GPM x 0.9, or 2250 GPM. Assuming an average capacity of 270 GPM per new well, eight additional wells would need to be constructed over the next 22 years to keep up with anticipated demands. For the purpose of estimating costs, it is assumed that ten wells would need to be drilled to yield eight usable wells.

Each usable well and associated waterline is currently estimated to cost $650,000. Assuming that inflation equals investment earnings, the present value cost of eight usable wells, and piping is estimated at $5,200,000. An additional $200,000 is

anticipated to be spent on unusable wells, resulting in a total present value cost of $5,400,000 for the future wells.

The total present value capital cost associated with the continued expansion of Monett's water supply through the construction of additional wells equals $6,550,000 plus $5,400,000, or $11,950,000.

The "increase" in operation, maintenance, and replacement costs associated with the initial construction, of four new wells, plus the pump replacement in Well No. 19 is estimated as follows:

Power – Not Significantly Changed	
Manpower – Added 4 Manhours/day	
@ $25/hr. Including Fringe	$36,500/yr.
Equipment Maintenance & Repair	30,000/yr.
Pump Replacement, Average	50,000/yr.
Other Costs	13,500/yr.
Total Additional O, M & R	$130,000/yr.

For an initial project capital cost of $6,800,000, assuming a 20-year, 2.5% interest SRF loan, the annual debt service equals $436,000/yr. The total annual cost for the overall improvements through the year 2030 would equal the initial debt service ($436,000/yr.), plus the initial O, M & R increase ($130,000/yr.), plus the annual cost of the future improvements ($245,000/yr.), plus the annual equivalent cost of future O, M & R ($50,000/yr.), for a total cost of $861,000 per year.

When spread over the current metered water sales of 2,850,000 GPD (1,040,250,000 gallons per year), the $861,000 annual cost equates to a unit cost of $0.83/1000 gallons.