

Missouri American Water Company Case No. WR-2003-0500 And WC-2004-0168
Staff's Weather Normalized Usage Per Customer Per Day
Based On 1971 Through 2000 Normal Weather

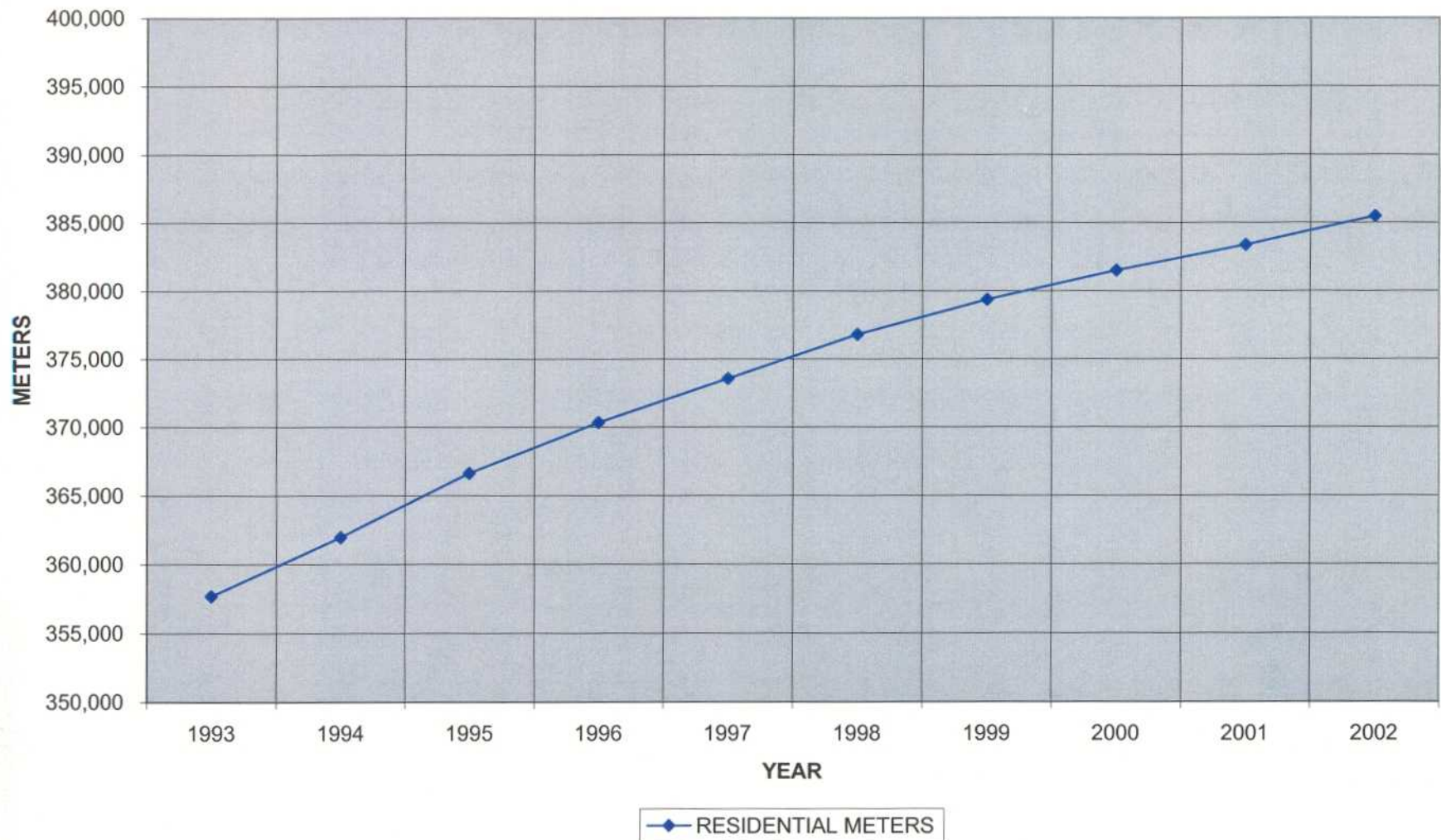
District	Monthly Residential	Monthly Commercial	Quarterly Residential	Quarterly Commercial	Monthly OPA	Quarterly OPA
Brunswick	125.5	190.3				
Jefferson City	167.6	876.4				
Joplin	198.8	911.5				
Mexico	153.8	602.3				
Parkville Water	281.2	962.5				
St. Charles	271.9	1,264.8				
St. Joseph	168.8	862.6				
St. Louis	5,013.4	14,302.6	290.2	971.1	15,344.4	1,509.1
Warrensburg	181.9	824.4				

MISSOURI AMERICAN WATER COMPANY CASE NOS. WR-2003-0500 AND WC-2004-0168 OBSERVED RESIDENTIAL SALES				
BILLING YEAR	OBSERVED RESIDENTIAL MGALLONS	RESIDENTIAL METERS	NOMINAL DAYS	OBSERVED RESIDENTIAL GMD
1993	32,292,828	357,700	365.25	247.2
1994	36,526,616	361,969	365.25	276.3
1995	35,764,133	366,640	365.25	267.1
1996	36,234,663	370,331	365.25	267.9
1997	37,047,103	373,547	365.25	271.5
1998	35,324,761	376,786	365.25	256.7
1999	38,422,160	379,351	365.25	277.3
2000	37,229,272	381,502	365.25	267.2
2001	37,790,890	383,372	365.25	269.9
2002	38,958,880	385,463	365.25	276.7

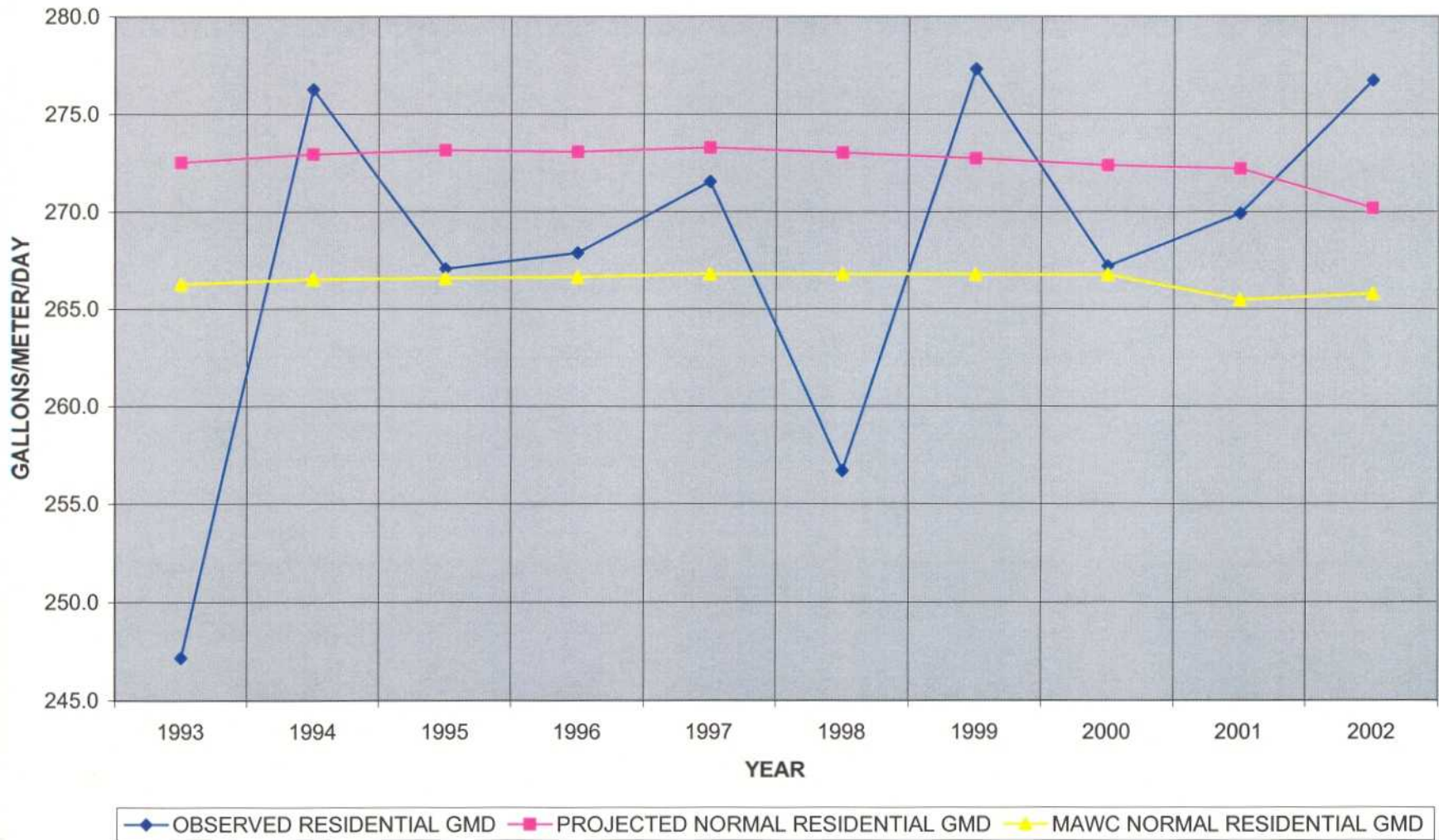
MISSOURI AMERICAN WATER COMPANY CASE NOS. WR-2003-0500 AND WC-2004-0168 NORMAL RESIDENTIAL SALES				
BILLING YEAR	PROJECTD NORMAL RESIDENTIAL MGALLONS	RESIDENTIAL METERS	NOMINAL DAYS	PROJECTED NORMAL RESIDENTIAL GMD
1993	35,606,136	357,700	365.25	272.5
1994	36,084,741	361,969	365.25	272.9
1995	36,578,209	366,640	365.25	273.1
1996	36,936,560	370,331	365.25	273.1
1997	37,283,967	373,547	365.25	273.3
1998	37,572,038	376,786	365.25	273.0
1999	37,785,590	379,351	365.25	272.7
2000	37,950,382	381,502	365.25	272.4
2001	38,112,763	383,372	365.25	272.2
2002	38,035,836	385,463	365.25	270.2

MISSOURI AMERICAN WATER COMPANY CASE NOS. WR-2003-0500 AND WC-2004-0168 COMPANY NORMAL RESIDENTIAL SALES				
BILLING YEAR	MAWC NORM RESIDENTIAL MGALLONS	RESIDENTIAL METERS	NOMINAL DAYS	MAWC NORMAL RESIDENTIAL GMD
1993	34,787,055	357,700	365.25	266.3
1994	35,236,497	361,969	365.25	266.5
1995	35,698,546	366,640	365.25	266.6
1996	36,068,888	370,331	365.25	266.7
1997	36,400,956	373,547	365.25	266.8
1998	36,717,740	376,786	365.25	266.8
1999	36,964,323	379,351	365.25	266.8
2000	37,171,315	381,502	365.25	266.8
2001	37,370,217	385,418	365.25	265.5
2002	37,419,228	385,463	365.25	265.8

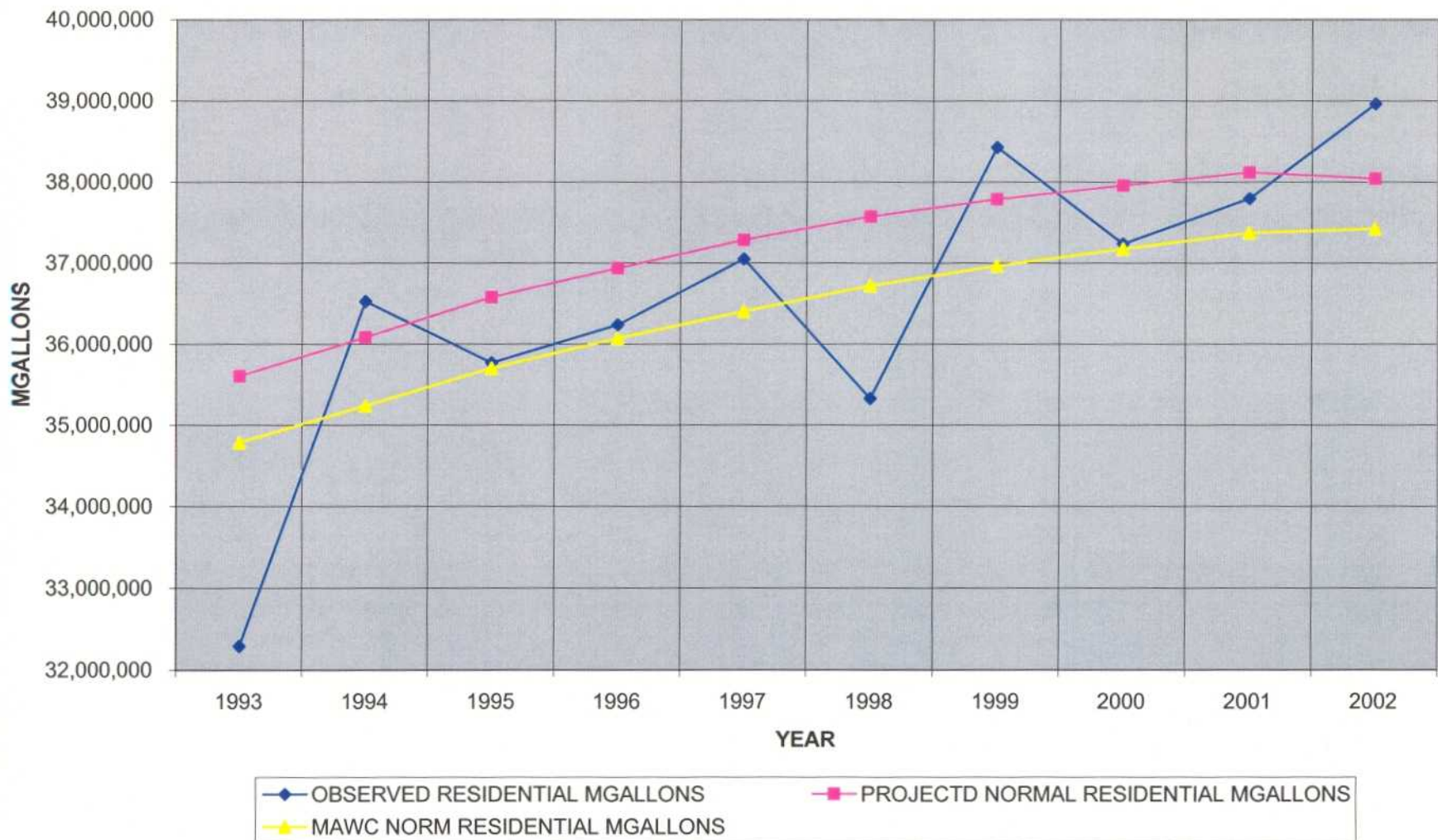
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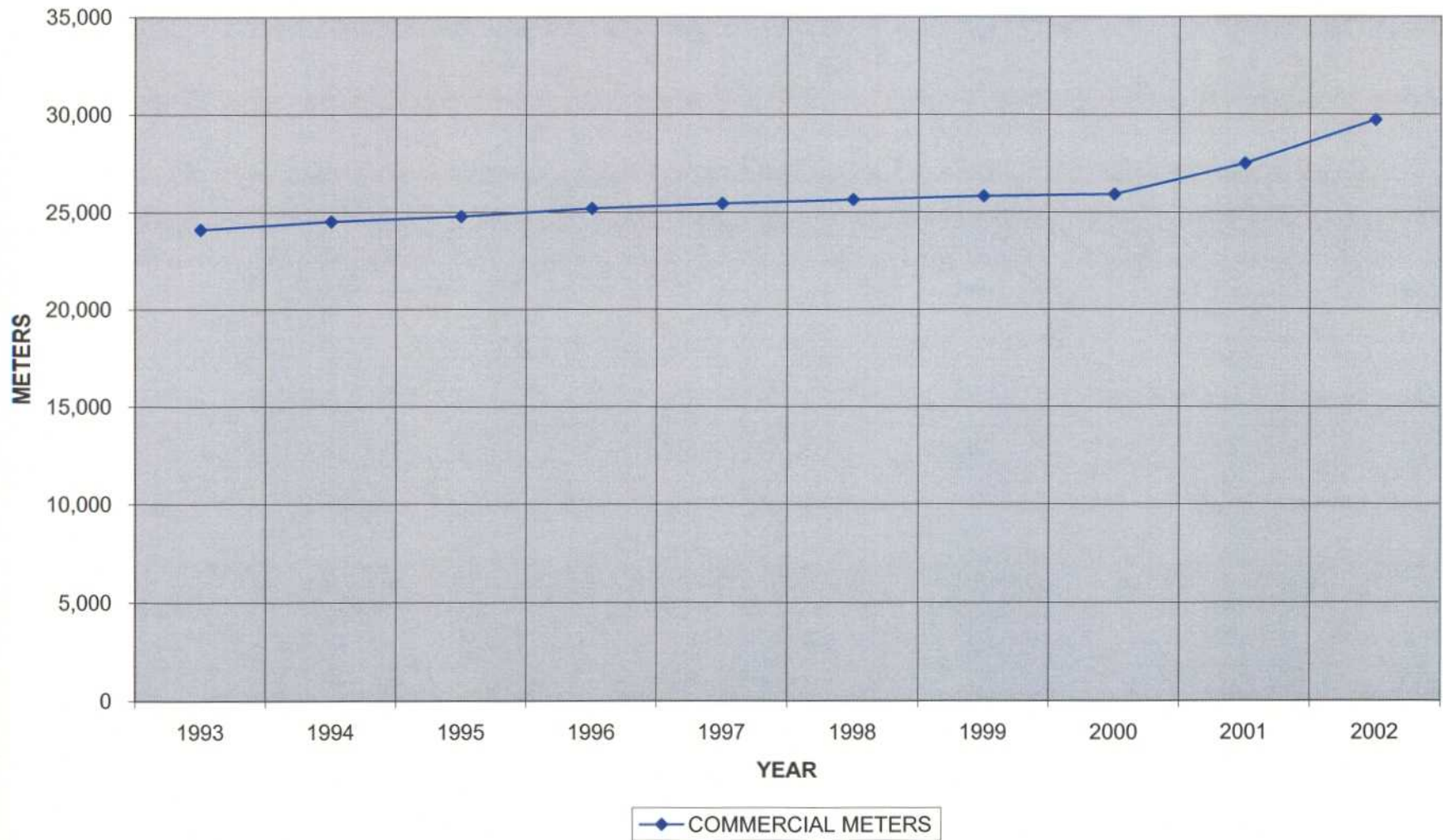


MISSOURI AMERICAN WATER COMPANY CASE NOS. WR-2003-0500 AND WC-2004-0168 OBSERVED COMMERCIAL SALES				
BILLING YEAR	OBSERVED COMM MGAL	COMMERCIAL METERS	NOMINAL DAYS	OBSERVED COMMERCIAL GMD
1993	9,774,152	24,104	365.25	1,110.2
1994	10,226,848	24,522	365.25	1,141.8
1995	10,677,931	24,775	365.25	1,180.0
1996	10,752,551	25,184	365.25	1,168.9
1997	11,197,752	25,436	365.25	1,205.3
1998	10,968,985	25,625	365.25	1,172.0
1999	11,811,074	25,805	365.25	1,253.1
2000	11,470,035	25,902	365.25	1,212.4
2001	11,825,265	27,463	365.25	1,178.9
2002	12,657,083	29,709	365.25	1,166.4

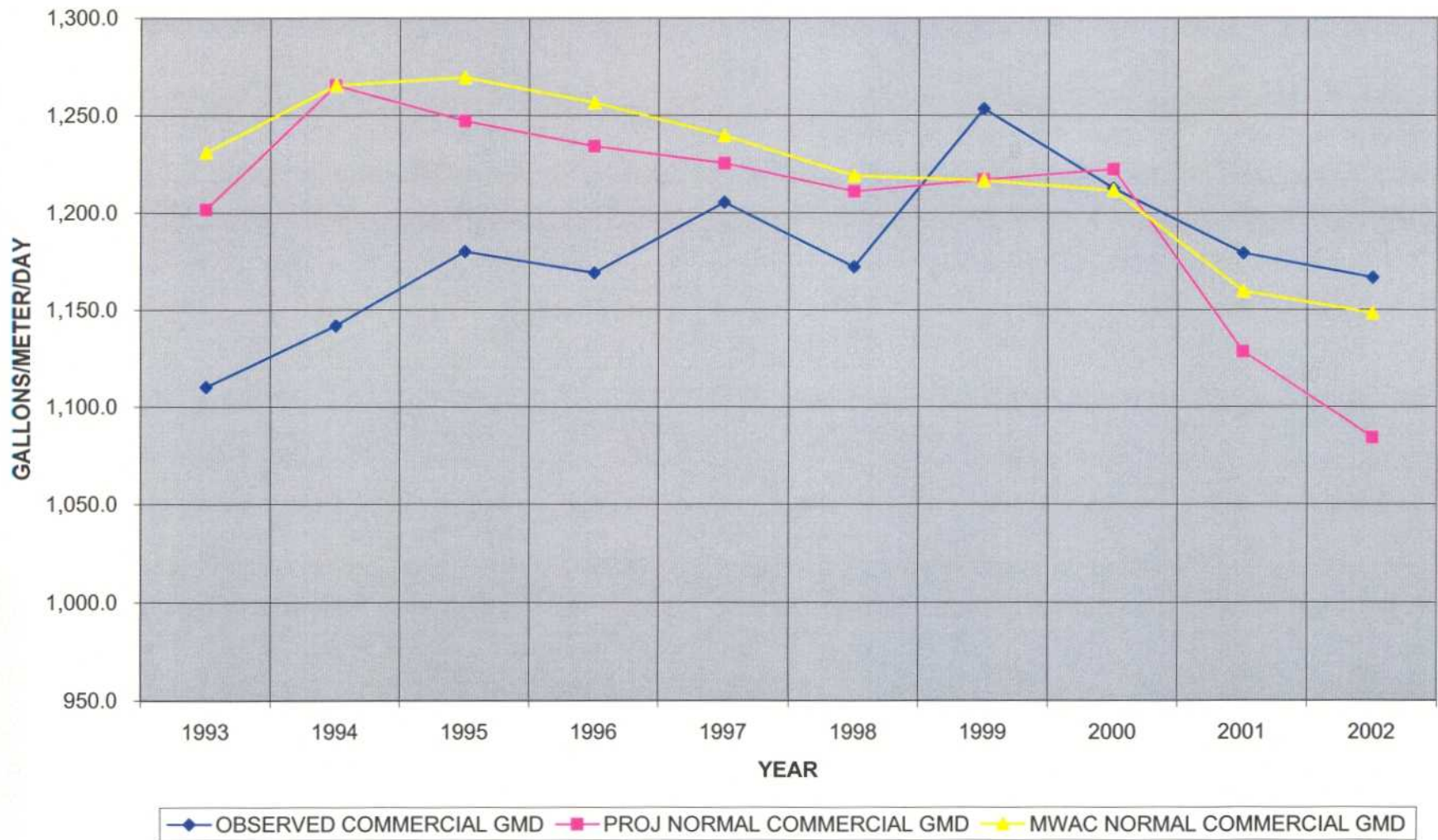
MISSOURI AMERICAN WATER COMPANY CASE NOS. WR-2003-0500 AND WC-2004-0168 NORMAL COMMERCIAL SALES				
BILLING YEAR	PROJ NORMAL COMM MGAL	COMMERCIAL METERS	NOMINAL DAYS	PROJ NORMAL COMMERCIAL GMD
1993	10,579,956	24,104	365.25	1201.7
1994	11,024,192	24,522	365.25	1265.5
1995	11,286,196	24,775	365.25	1247.2
1996	11,353,267	25,184	365.25	1234.2
1997	11,383,573	25,436	365.25	1225.3
1998	11,333,251	25,625	365.25	1210.9
1999	11,468,073	25,805	365.25	1216.7
2000	11,562,450	25,902	365.25	1222.2
2001	11,317,271	27,463	365.25	1128.3
2002	11,762,497	29,709	365.25	1084.0

MISSOURI AMERICAN WATER COMPANY CASE NOS. WR-2003-0500 AND WC-2004-0168 COMPANY NORMAL COMMERCIAL SALES				
BILLING YEAR	MWAC NORMAL COMMERCIAL MGALLONS	COMMERCIAL METERS	NOMINAL DAYS	MWAC NORMAL COMMERCIAL GMD
1993	10,838,160	24,104	365.25	1231.1
1994	11,334,920	24,522	365.25	1265.5
1995	11,488,112	24,775	365.25	1269.5
1996	11,559,374	25,184	365.25	1256.7
1997	11,517,446	25,436	365.25	1239.7
1998	11,409,895	25,625	365.25	1219.1
1999	11,465,168	25,805	365.25	1216.4
2000	11,460,846	25,902	365.25	1211.4
2001	11,630,326	27,463	365.25	1159.5
2002	12,458,999	29,709	365.25	1148.2

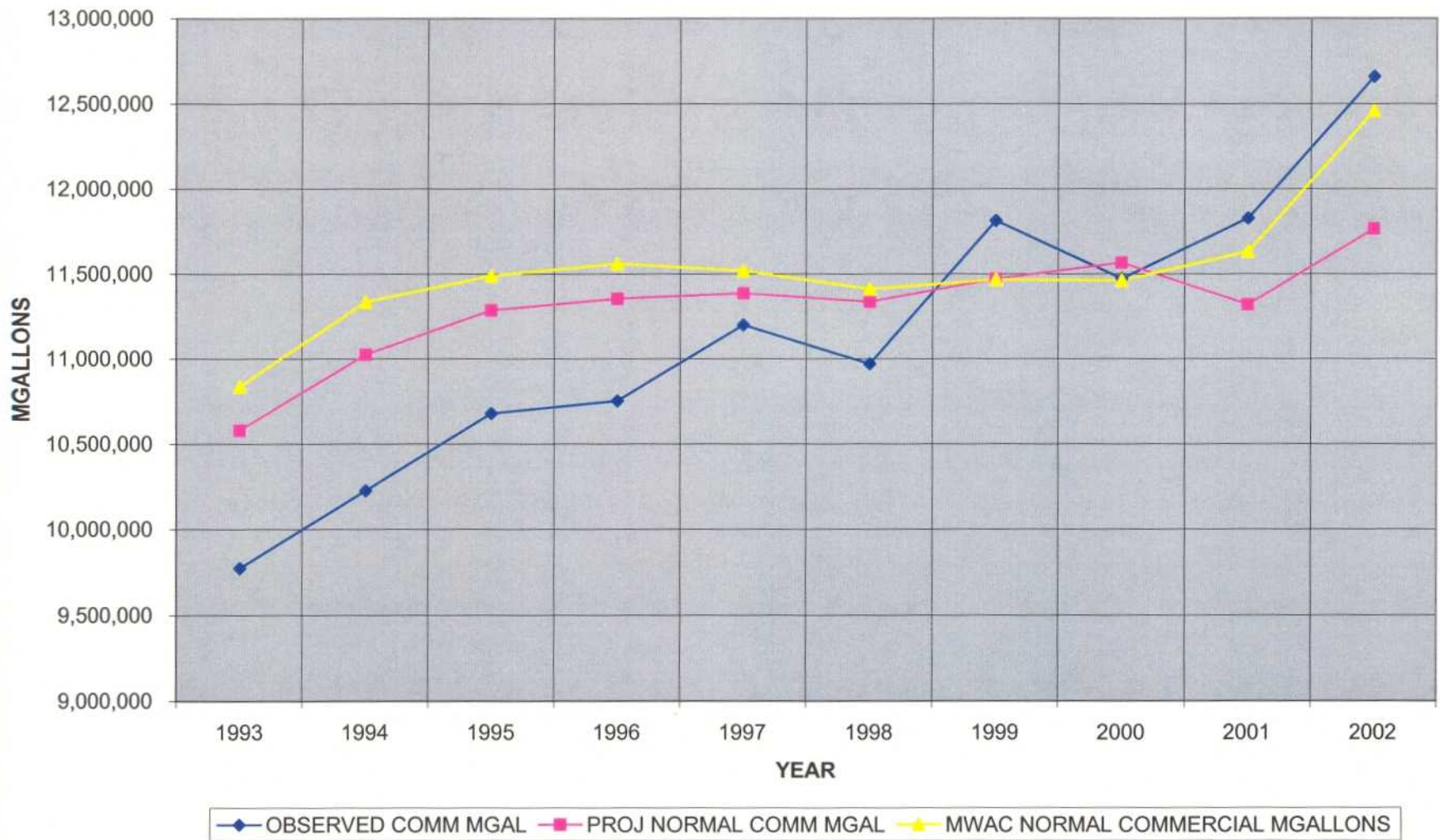
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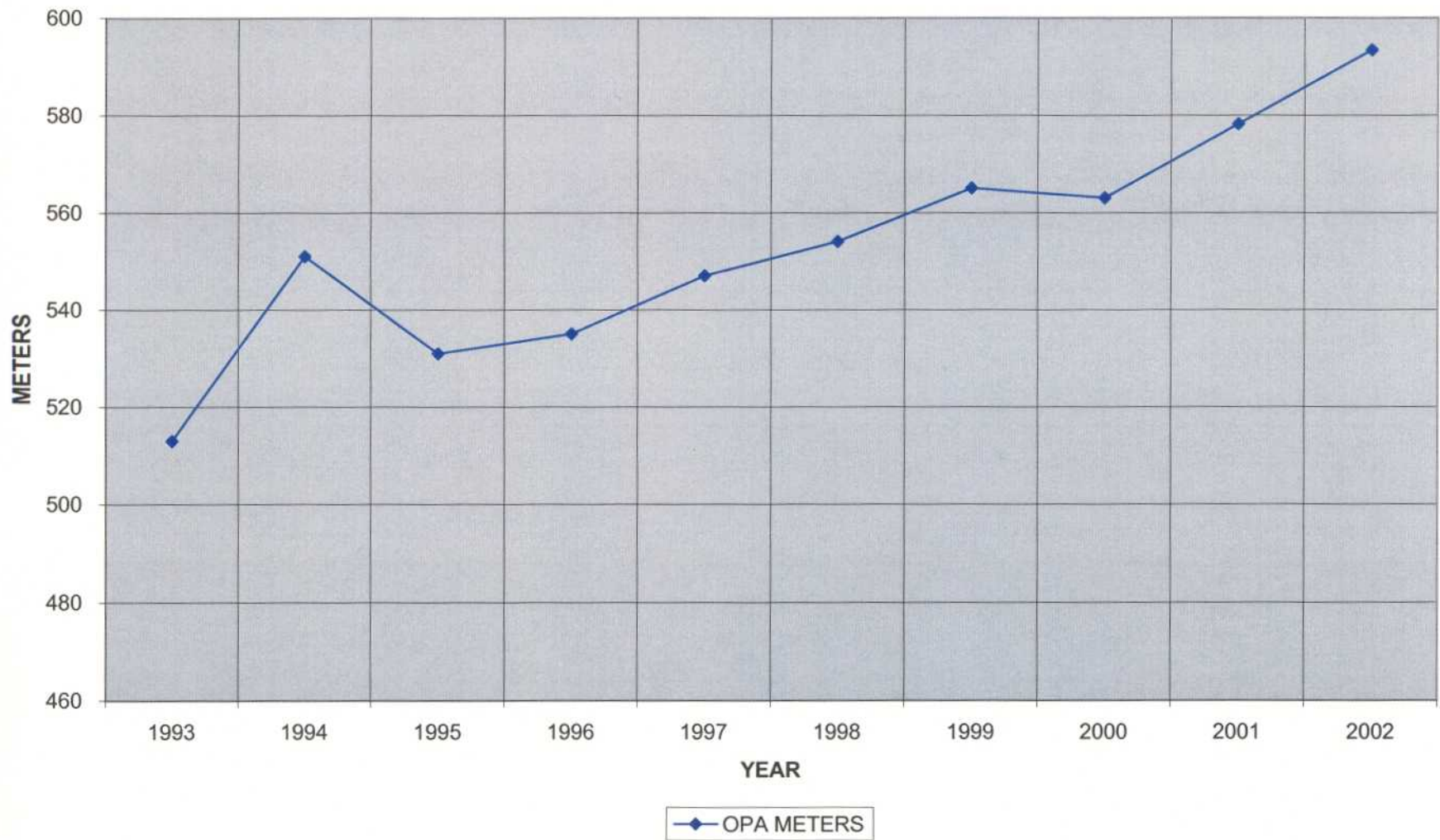


MISSOURI AMERICAN WATER COMPANY CASE NOS. WR-2003-0500 AND WC-2004-0168 OBSERVED ST LOUIS OTHER PUBLIC AUTHORITY SALES				
BILLING YEAR	OBSERVED OPA MGALLONS	OPA METERS	NOMINAL DAYS	OBSERVED OPA GMD
1993	222,313	513	365.25	1186.5
1994	321,406	551	365.25	1597.0
1995	256,229	531	365.25	1321.1
1996	263,916	535	365.25	1350.6
1997	305,054	547	365.25	1526.9
1998	327,406	554	365.25	1618.0
1999	396,224	565	365.25	1920.0
2000	379,660	563	365.25	1846.3
2001	379,979	578	365.25	1799.4
2002	412,944	593	365.25	1905.5

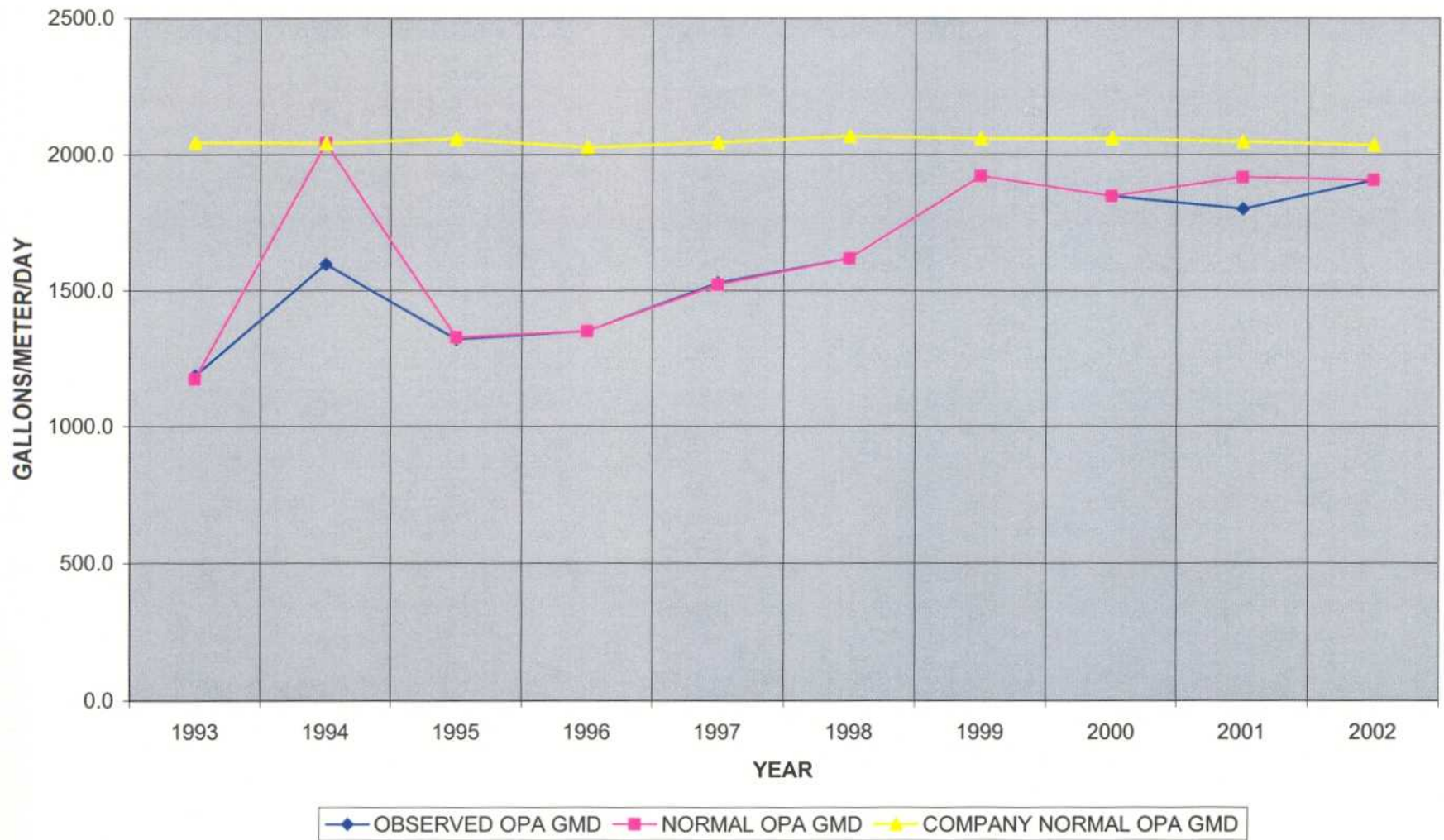
MISSOURI AMERICAN WATER COMPANY CASE NOS. WR-2003-0500 AND WC-2004-0168 NORMAL ST LOUIS OTHER PUBLIC AUTHORITY SALES				
BILLING YEAR	NORMAL OPA MGALLONS	OPA METERS	NOMINAL DAYS	NORMAL OPA GMD
1993	220,235	513	365.25	1175.4
1994	320,291	551	365.25	2041.5
1995	257,602	531	365.25	1328.2
1996	263,916	535	365.25	1350.6
1997	303,807	547	365.25	1520.6
1998	327,406	554	365.25	1618.0
1999	396,224	565	365.25	1920.0
2000	379,660	563	365.25	1846.3
2001	404,343	578	365.25	1914.7
2002	412,944	593	365.25	1905.5

MISSOURI AMERICAN WATER COMPANY CASE NOS. WR-2003-0500 AND WC-2004-0168 COMPANY NORMAL ST LOUIS OTHER PUBLIC AUTHORITY SALES				
BILLING YEAR	COMPANY NORMAL OPA MGALLONS	OPA METERS	NOMINAL DAYS	COMPANY NORMAL OPA GMD
1993	383,116	513	365.25	2044.7
1994	410,853	551	365.25	2041.5
1995	399,291	531	365.25	2058.8
1996	395,834	535	365.25	2025.7
1997	408,541	547	365.25	2044.8
1998	418,358	554	365.25	2067.5
1999	424,717	565	365.25	2058.1
2000	423,560	563	365.25	2059.8
2001	432,328	578	365.25	2047.2
2002	441,096	593	365.25	2035.4

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