

Lower Merrimack Annual Water Use versus Stream Flow – Calendar Year 2005

Water use was reported by 75 sources, 17 water transfers and 19 returns representing 56 facilities in the Lower Merrimack Water Management Planning Area. These numbers do not include sources and returns in the Pemigewasset, Upper Merrimack, Contoocook, Piscataquog, and Souhegan Water Management Planning Areas, all of which are tributary to the Lower Merrimack. The water use on these tributary rivers is included in the results for the Lower Merrimack. Including all tributaries, a total of 269 sources, 78 measured returns, and 31 water transfers were reported in 2005 in the Lower Merrimack. All of these water uses described above were included in this assessment. The following descriptions cover the Lower Merrimack without details of the other Designated Rivers except where noted. Please refer to the specific annual reports for details of water use within these other rivers.

Nine sources at three agricultural fields were used. Irrigation for playing fields used one source and irrigation for golf used 15 sources at 11 facilities. One aquaculture facility used three sources. Four transfers of water served commercial uses. Industrial uses included five sources and five discharges at six facilities. Mining uses used four sources at four facilities. One fossil-fuel power supply used three sources. There were seven hydropower facilities operating in 2005. Seven sewage treatment plants discharged and 15 water supplies used 28 sources.

Twenty-three sources and one discharge used by 14 facilities were not included in this assessment because they did not meet the definition of an Affected Water User. These sources include the following uses: one agricultural irrigation, one commercial use, three industrial facilities, two golf course irrigation and one school ballfield irrigation, three sand and gravel mining facilities, and four water supplies. One commercial discharge was not included. The annual water use during 2005 reported for these sources was 1,238 million gallons (165,436,687 ft³). On a monthly basis, this use represents between 0.7 to 6.1 % of the water use that was included in the assessment.

Unassessed Water User (Source > 500 feet from perennial stream)	Unassessed Annual Water Use (gallons)
Environmental Soil Management	17,364,676
Holiday Acres Water Service	3,696,100
NH International Speedway	0
DS Cole Growers Inc	3,598,000
Loudon Country Club	4,740,000
Plourde Sand & Gravel Co	286,160,000
Bear Brook Villa MHP	12,080,452
Fillmore Industries Inc	56,356,000
Litchfield S&G (Continental Paving)	76,620,000
Badger Hill (Pennichuck WW)	6,993,604
Campbell High School	2,461,400
Continental Paving (Londonderry Facility)	154,607,540

RediMix Concrete Service Inc	4,926,525
Hudson/Litchfield System (Pennichuck WW)	565,753,853
TOTAL	1,195,565,150

The Lower Merrimack Water Management Planning Area (excluding the five Designated Rivers in its tributary area) includes registered water use by seven hydroelectric facilities. Two are on the Merrimack River and both of these are upstream of the Designated River. Water use by hydroelectric facilities are not shown in the monthly graphs because flow in is expected to equal flow out and because the General Standard does not apply to hydroelectric facilities between their point of withdrawal and point of return per Env-Ws 1903.02(d).

This assessment assumes water volume reported as used by non-consumptive uses such as hydroelectric dams and aquaculture facilities is discharged through the dam structure at the same volume and with no delay caused by storage of the water, that is, water in is equal to water out. In this assessment water use by PSNH Power Generation Station (20151 20151-S01) was also assumed to operate in this manner.

The beginning of the Lower Merrimack Designated River is the Bedford-Merrimack town line and the end is at the NH-MA border. The Lower Merrimack Designated River is separated from the Upper Merrimack Designated River by an undesignated segment that is 20.6 miles long. The Designated River is 16 miles long.

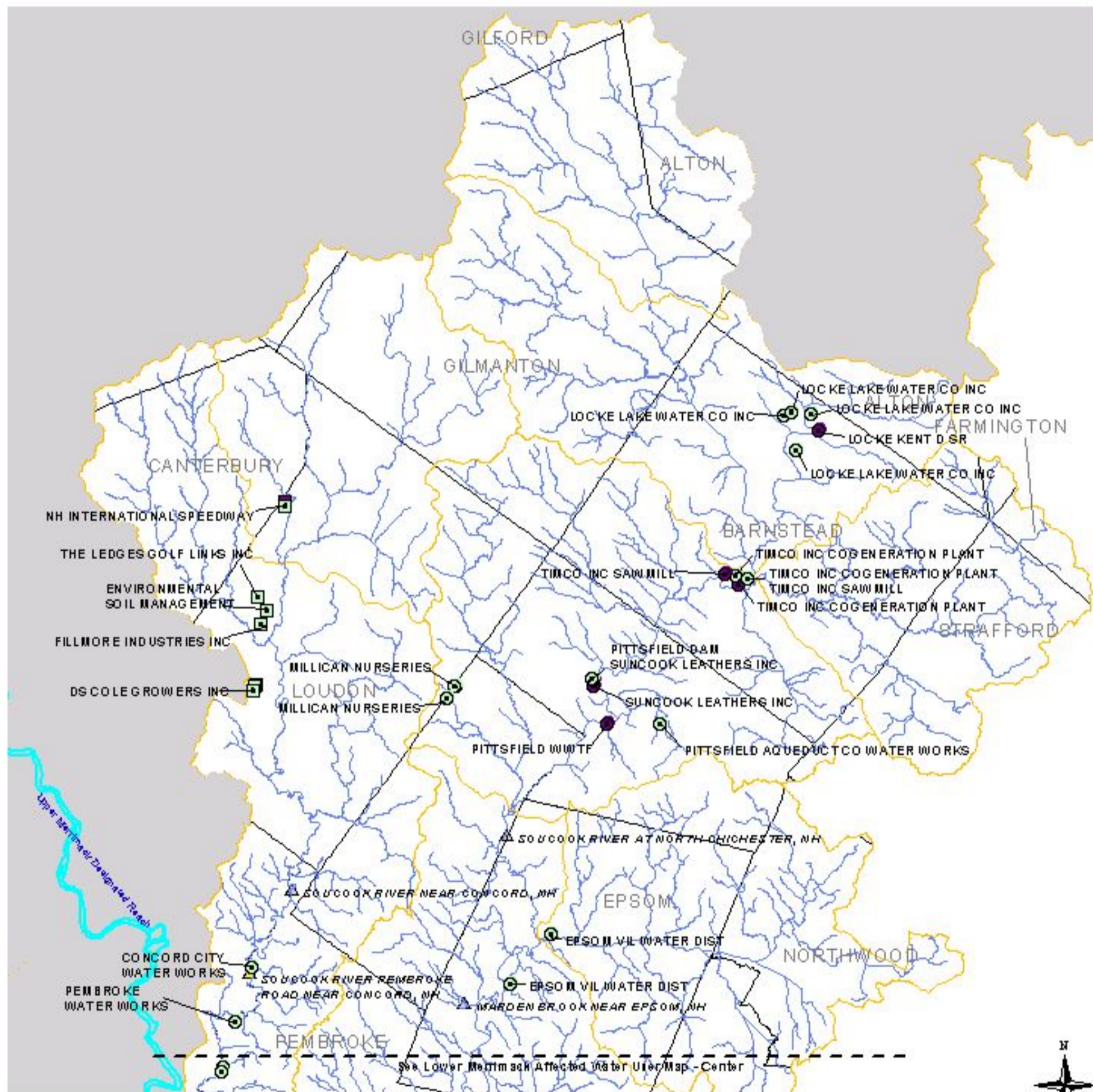
The Water Management Planning Area of the Lower Merrimack Designated River includes the watersheds of the Pemigewasset Designated River, the Winnepesaukee River, the Upper Merrimack Designated River, the Contocook Designated River, the Piscataquog Designated River and the Souhegan Designated River. The Pemigewasset watershed is 1223 square miles and the Winnepesaukee watershed adds another 486 square miles such that the watershed at the beginning of the Merrimack River is 1508 square miles. The Contocook watershed adds 764 square miles to the Merrimack watershed to equal 2339 square miles at their confluence. The Upper Merrimack Designated River watershed is 2428 square miles. The Piscataquog Designated River enters the undesignated segment of the Merrimack River between the Upper Merrimack Designated River and the Lower Merrimack Designated River. The Souhegan Designated River enters the Lower Merrimack Designated River in Merrimack contributing 220 square miles to its watershed. The results of water use in these basins are components of the Lower Merrimack River's assessment. The Lower Merrimack Water Management Planning Area covers 4046 square miles.

In this assessment, a stream flow gage is used that is upstream of the designated river segment: USGS 01092000 MERRIMACK R NR GOFFS FALLS, BELOW MANCHESTER, NH. The Goffs Falls gage measures 3092 square miles and is located about three miles upstream of the Designated River. For this report stream flow was transposed areally from the gage to all impact points on the Designated River. The Lower Merrimack Designated River was in compliance with the General Standard during all months.

Lower Merrimack Designated River	River Miles not in Compliance with General Standard (0 at the D/S end of the DR)	Length of River Miles not in Compliance with General Standard	Maximum value of Aggregate WU /Stream flow	Previously not in Compliance with the General Standard (2003 to present)	Unassessed Water Use outside 500' as a percent of the total Water Use
January	--	--	0.29%	--	0.75%
February	--	--	0.19%	--	0.71%
March	--	--	0.21%	--	0.65%
April	--	--	See note.	--	1.59%
May	--	--	0.07%	--	6.11%
June	--	--	0.42%	--	1.92%
July	--	--	1.19%	2003	1.48%
August	--	--	3.32%	2004	1.69%
September	--	--	2.58%	--	1.51%
October	--	--	See note.	--	2.27%
November	--	--	See note.	--	1.53%
December	--	--	See note.	--	1.32%

Note: Values for these months were not calculated because water use records show more water was returned than was withdrawn. This usually indicates water collected from unregistered sources, like infiltration or stormwater, that was treated and reported by WWTFs as part of their discharge.

Lower Merrimack River Affected Water User Facilities: Source and Discharge Locations - North



0 1 2 3 4 5 Miles

The coverages presented are under constant revision as new sites or facilities are added. They may not contain all of the potential or existing sites or facilities. NHDES is not responsible for the use or interpretation of this information. Not intended for legal purposes. Water users database last updated May 2005.

Map produced June 10, 2005

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Affected Water Users

Source
Discharge

Affected Water Users
(Outside WMPA)

Source
Discharge

Water Users
(Outside of 500ft
from hydrology)

Source
Discharge

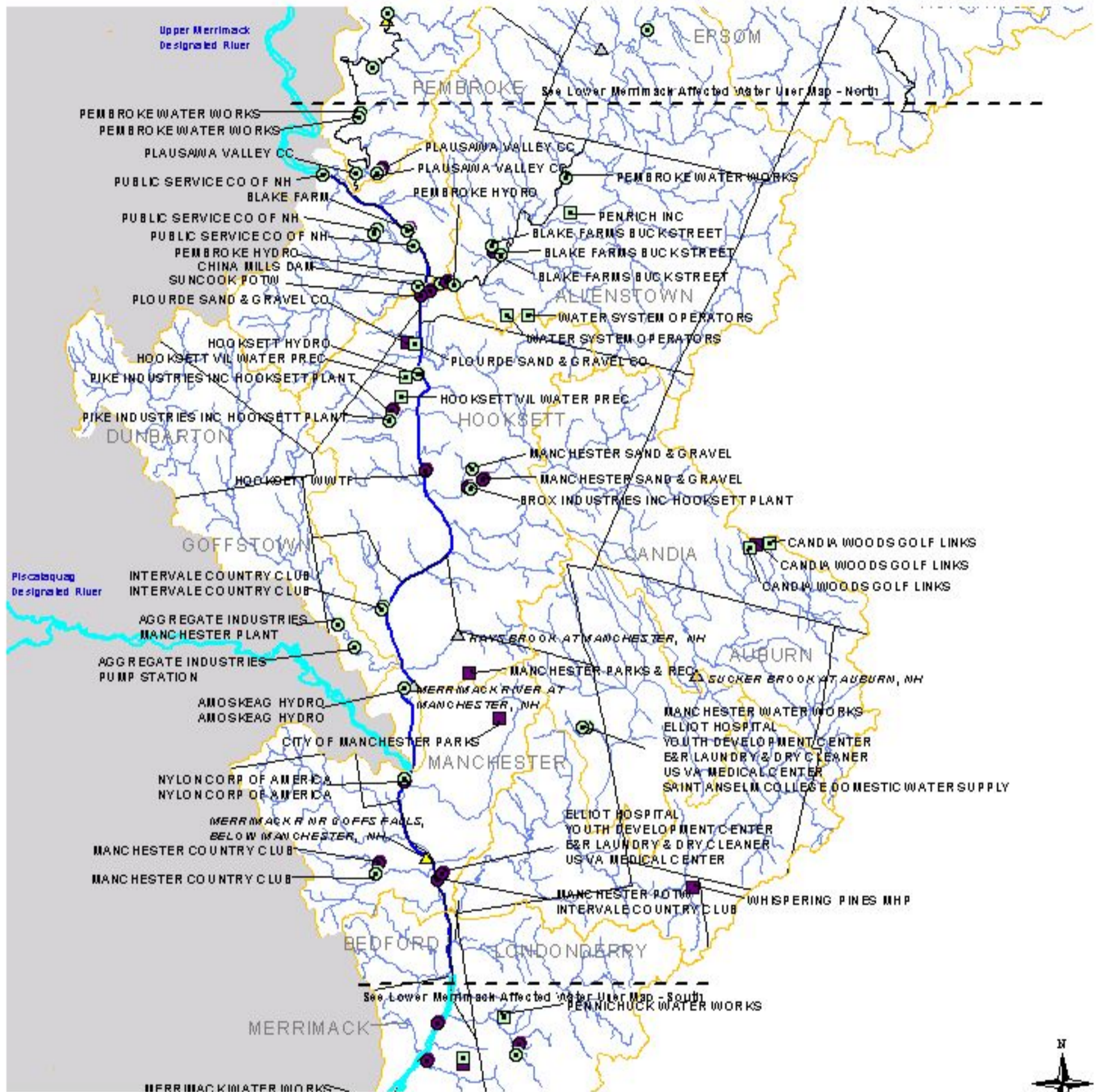
Stream Gages

Active
Inactive
Unknown



Designated Reach
Undesignated portion
Merrimack River
Hydrology
State boundary
Town boundary
WMPA

Lower Merrimack River Affected Water User Facilities: Source and Discharge Locations - Center



0 1 2 3 4 5 Miles

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Map produced June 10, 2005

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Affected Water Users

- Source
- Discharge

Affected Water Users (Outside WMPA)

- Source
- Discharge

Water Users (Outside of 500ft from hydrology)

- Source
- Discharge

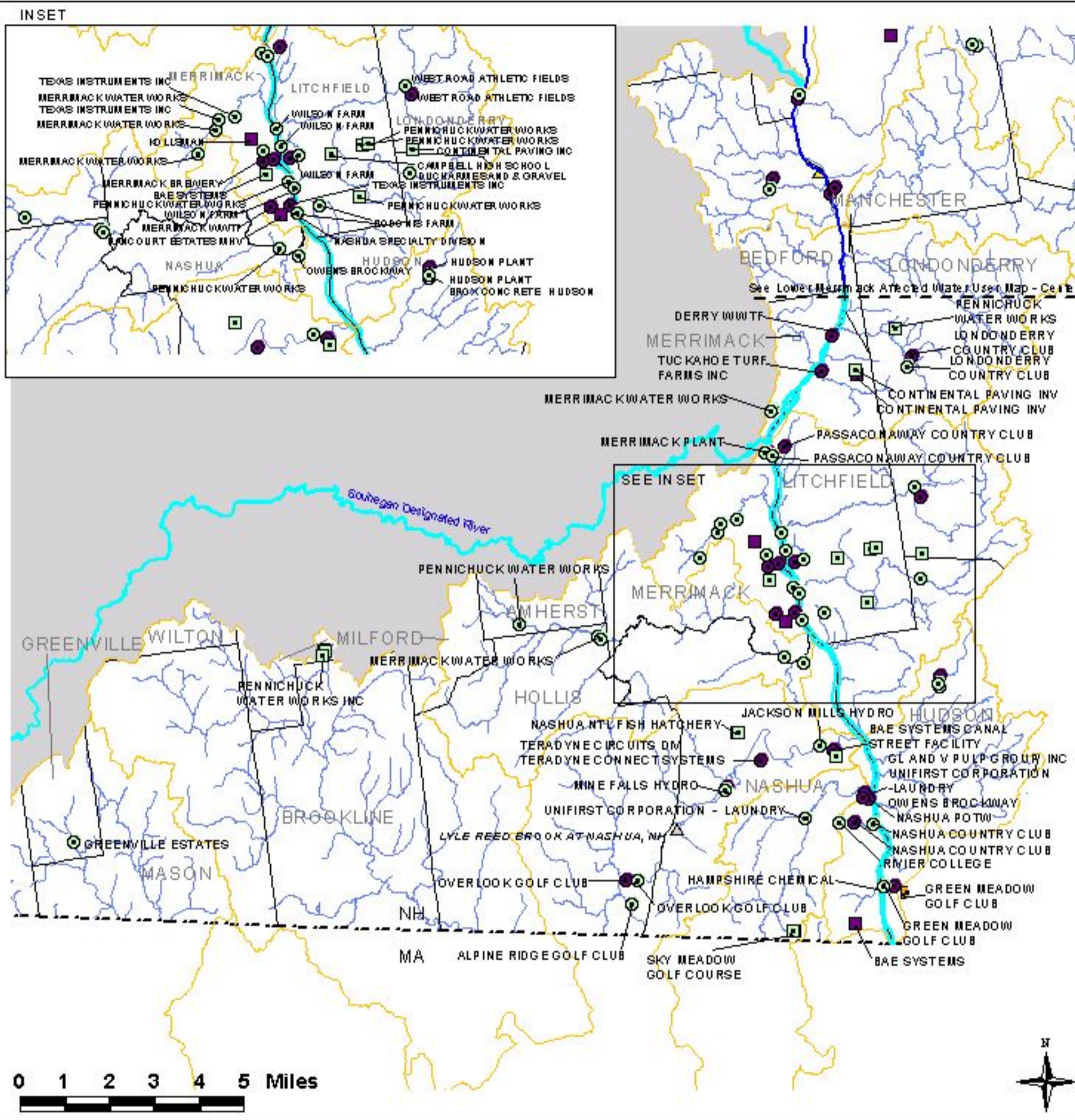
Stream Gages

- ▲ Active
- △ Inactive
- △ Unknown



- Designated Reach
- Undesignated portion Merrimack River
- Hydrology
- State boundary
- Town boundary
- WMPA

Lower Merrimack River Affected Water User Facilities: Source and Discharge Locations - South



Legend

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> Affected Water Users ○ Source ● Discharge Affected Water Users (outside WMPA) ◻ Source ◻ Discharge | <ul style="list-style-type: none"> Water Users (outside of 500ft from hydrology) ◻ Source ◻ Discharge Stream Gages ▲ Active △ Inactive △ Unknown | <ul style="list-style-type: none"> Designated Reach Undesignated portion Merrimack River Hydrology State boundary Town boundary WMPA |
|---|---|--|

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Map produced June 10, 2005

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2005 Lower Merrimack Water Use in CFS																
WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
End of Upper Merrimack DR	End of DR - Garvin Falls		3172.7	17.751	7.554	16.506	(2.719)	5.437	10.188	19.907	12.108	26.145	(7.668)	(0.362)	8.490	
PENNICHUCK WATER WORKS	MINISTERIAL HEIGHTS	20797 20797-S02	3172.7							0.014	0.013	0.012	0.007	0.005	0.006	
PENNICHUCK WATER WORKS	MINISTERIAL HEIGHTS	20797 20797-S01	3172.7							0.014	0.013	0.012	0.007	0.006	0.006	
OSRAM SYLVANIA PRODUCTS INC	MANCHESTER	20784 20076-D01	3172.7	(0.152)	(0.156)	(0.133)	(0.161)	(0.415)	(0.159)	(0.124)	(0.212)	(0.198)	(0.167)	(0.165)	(0.160)	
OSRAM SYLVANIA PRODUCTS INC	MANCHESTER	20784 20009-S01	3172.7	0.152	0.156	0.133	0.161	0.116	0.159	0.124	0.212	0.198	0.167	0.165	0.160	
BLAKE FARM	BLAKE FARMS BOW LANE	20745 20745-S01	3172.7	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	
BLAKE FARM	BLAKE FARMS BUCK STREET	20744 20744-S02	3172.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	
BLAKE FARM	BLAKE FARMS BUCK STREET	20744 20744-S01	3172.7	0.000	0.000	0.000	0.000	0.009	0.000	0.001	0.006	0.000	0.000	0.000	0.000	
MILLICAN NURSERIES INC	MILLICAN NURSERIES	20743 20743-S02	3172.7	0.000	0.000	0.000	0.033	0.079	0.055	0.118	0.151	0.052	0.010	0.000	0.000	
MILLICAN NURSERIES INC	MILLICAN NURSERIES	20743 20743-S01	3172.7	0.000	0.000	0.000	0.045	0.061	0.069	0.072	0.142	0.048	0.011	0.000	0.000	
PLAUSAWA VALLEY ASSOCIATE	PLAUSAWA VALLEY CC	20704 20704-S02	3172.7	0.000	0.000	0.000	0.001	0.036	0.093	0.120	0.130	0.072	0.000	0.000	0.000	
PLAUSAWA VALLEY ASSOCIATE	PLAUSAWA VALLEY CC	20704 20704-S01	3172.7	0.000	0.000	0.000	0.001	0.036	0.093	0.120	0.130	0.072	0.000	0.000	0.000	
SAINT ANSELM COLLEGE	DOMESTIC WATER SUPPLY	20651 20009-S01	3172.7	0.133	0.170	0.119	0.118	0.080	0.098	0.126	0.225	0.186	0.159	0.192	0.054	
US VA MEDICAL CENTER	VETERANS HOSPITAL	20648 20076-D01	3172.7	(0.035)	(0.040)	(0.031)	(0.042)	(0.031)	(0.046)	(0.046)	(0.057)	(0.053)	(0.045)	(0.019)	(0.033)	
US VA MEDICAL CENTER	VETERANS HOSPITAL	20648 20009-S01	3172.7	0.035	0.040	0.031	0.042	0.031	0.046	0.046	0.057	0.053	0.045	0.019	0.033	
E&R LAUNDRY & DRY CLEANER	E&R LAUNDRY & DRY CLEANER	20646 20076-D01	3172.7	(0.082)	(0.072)	(0.053)	(0.084)	(0.065)	(0.055)	(0.062)	(0.053)	(0.075)	(0.065)	(0.052)	(0.039)	
E&R LAUNDRY & DRY CLEANER	E&R LAUNDRY & DRY CLEANER	20646 20009-S01	3172.7	0.082	0.072	0.053	0.072	0.068	0.054	0.062	0.053	0.075	0.065	0.052	0.039	
INTERVALE COUNTRY CLUB	INTERVALE COUNTRY CLUB	20644 20644-S02	3172.7	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	
INTERVALE COUNTRY CLUB	INTERVALE COUNTRY CLUB	20644 20644-S01	3172.7	0.000	0.000	0.000	0.021	0.034	0.054	0.085	0.097	0.061	0.015	0.000	0.000	
NH YOUTH DEVELOP SERVICE	YOUTH DEVELOPMENT CENTER	20640 20009-S01	3172.7	0.024	0.026	0.024	0.026	0.025	0.026	0.027	0.027	0.028	0.027	0.027	0.027	
ALGONQUIN POWER CORP INC	PEMBROKE HYDRO	20560 20560-S01	3172.7	430.521	466.516	525.111	624.245	511.236	525.926	310.113	22.442	7.379	473.330	589.248	542.697	
ALGONQUIN POWER CORP INC	PEMBROKE HYDRO	20560 20560-D01	3172.7	(430.521)	(466.516)	(525.111)	(624.245)	(511.236)	(525.926)	(310.113)	(22.442)	(7.379)	(473.330)	(589.248)	(542.697)	
AGGREGATE INDUSTRIES	PUMP STATION	20532 20532-S01	3172.7	0.009	0.008	0.007	0.019	0.018	0.024	0.018	0.020	0.020	0.016	0.018	0.011	
PITTSFIELD AQUEDUCT CO	WATER WORKS	20481 20481-S01	3172.7	0.283	0.260	0.269	0.259	0.263	0.265	0.277	0.030	0.280	0.256	0.248	0.248	
ELLIOT HOSPITAL	ELLIOT HOSPITAL	20453 20076-D01	3172.7	(0.116)	(0.121)	(0.150)	(0.128)	(0.152)	(0.242)	(0.269)	(0.222)	(0.167)	(0.182)	(0.140)	(0.127)	
ELLIOT HOSPITAL	ELLIOT HOSPITAL	20453 20009-S01	3172.7	0.116	0.121	0.150	0.128	0.152	0.242	0.269	0.222	0.167	0.132	0.140	0.127	
HOOKSETT WWTF	WASTE WATER TREAT PLANT	20331 20331-D01	3172.7	(0.987)	(1.027)	(1.155)	(1.476)	(1.339)	(1.222)	(1.063)	(0.965)	(1.016)	(1.734)	(1.537)	(1.359)	
EPSOM VIL WATER DIST	WATER WORKS	20312 20312-S02	3172.7	0.082	0.081	0.083	0.121	0.121	0.094	0.115	0.102	0.102	0.092	0.083	0.000	
EPSOM VIL WATER DIST	WATER WORKS	20312 20312-S01	3172.7	0.138	0.136	0.130	0.071	0.065	0.097	0.074	0.079	0.059	0.054	0.049	0.125	
HOOKSETT VIL WATER PREC	WATER WORKS	20310 20310-S02	3172.7	0.106	0.115	0.356	0.168	0.183	0.150	0.222	0.256	0.151	0.166	0.147	0.193	
HOOKSETT VIL WATER PREC	WATER WORKS	20310 20310-S01	3172.7	0.226	0.263	0.293	0.213	0.248	0.231	0.356	0.847	0.314	0.264	0.192	0.210	
ALLENSTOWN SEWER COMM	SUNCOOK POTW	20280 20280-D01	3172.7	(1.043)	(1.065)	(1.274)	(1.812)	(1.418)	(1.234)	(1.144)	(0.865)	(0.839)	(1.897)	(1.792)	(1.644)	
PIKE INDUSTRIES INC	HOOKSETT PLANT	20258 20258-S01	3172.7	0.000	0.000	0.000	0.033	0.017	0.040	0.025	0.028	0.027	0.052	0.017	0.000	
NEW HAMPSHIRE HYDRO ASSOCIA	CHINA MILLS DAM	20247 20247-S01	3172.7	350.726	322.751	252.562	369.677	370.711	362.879	162.963	1.177	0.000	271.051	408.379	420.008	
NEW HAMPSHIRE HYDRO ASSOCIA	CHINA MILLS DAM	20247 20247-D01	3172.7	(350.726)	(322.751)	(252.562)	(369.677)	(370.711)	(362.879)	(162.963)	(1.177)	0.000	(271.051)	(408.379)	(420.008)	
MANCHESTER SAND & GRAVEL	MANCHESTER SAND & GRAVEL	20244 20244-S01	3172.7	0.000	0.000	0.000	0.000	1.261	1.334	1.255	1.041	0.894	0.527	0.000	0.000	
MANCHESTER COUNTRY CLUB	MANCHESTER COUNTRY CLUB	20243 20243-S01	3172.7	0.000	0.000	0.000	0.046	0.043	0.350	0.280	0.334	0.060	0.061	0.000	0.000	
CANDIA WOODS GOLF LINKS	CANDIA WOODS GOLF LINKS	20207 20207-S03	3172.7	0.000	0.000	0.000	0.000	0.050	0.052	0.125	0.125	0.052	0.000	0.000	0.000	
CANDIA WOODS GOLF LINKS	CANDIA WOODS GOLF LINKS	20207 20207-S02	3172.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.000	
CANDIA WOODS GOLF LINKS	CANDIA WOODS GOLF LINKS	20207 20207-S01	3172.7	0.000	0.000	0.000	0.026	0.025	0.206	0.200	0.200	0.129	0.050	0.000	0.000	
PUBLIC SERVICE CO OF NH	MERRIMACK GENERATING STA	20151 20151-S03	3172.7	0.208	0.221	0.357	0.328	0.256	0.330	0.329	0.312	0.316	0.274	0.234	0.351	
PUBLIC SERVICE CO OF NH	MERRIMACK GENERATING STA	20151 20151-S02	3172.7	0.234	0.167	0.194	0.192	0.155	0.234	0.197	0.219	0.250	0.235	0.245	0.288	
PUBLIC SERVICE CO OF NH	MERRIMACK GENERATING STA	20151 20151-S01	3172.7	361.102	325.097	386.299	389.910	132.295	387.944	396.357	365.661	395.983	296.550	389.309	390.975	
PUBLIC SERVICE CO OF NH	MERRIMACK GENERATING STA	20151 20151-Dxx	3172.7	(361.102)	(325.097)	(386.299)	(389.910)	(132.295)	(387.944)	(396.357)	(365.661)	(395.983)	(296.550)	(389.309)	(390.975)	
PUBLIC SERVICE CO OF NH	HOOKSETT HYDRO	20148 20148-S01	3172.7	1265.552	1305.777	1100.009	509.006	1044.312	1024.200	985.521	261.465	699.302	281.578	869.487	1202.119	
PUBLIC SERVICE CO OF NH	HOOKSETT HYDRO	20148 20148-D01	3172.7	(1265.552)	(1305.777)	(1100.009)	(509.006)	(1044.312)	(1024.200)	(985.521)	(261.465)	(699.302)	(281.578)	(869.487)	(1202.119)	
PUBLIC SERVICE CO OF NH	GARVINS FALLS HYDRO	20146 20146-S01	3172.7	2611.554	2350.089	2122.661	3795.108	4115.364	3843.069	2571.329	994.804	1561.053	2920.980	3710.016	3061.769	
PUBLIC SERVICE CO OF NH	GARVINS FALLS HYDRO	20146 20146-D01	3172.7	(2611.554)	(2350.089)	(2122.661)	(3795.108)	(4115.364)	(3843.069)	(2571.329)	(994.804)	(1561.053)	(2920.980)	(3710.016)	(3061.769)	
PUBLIC SERVICE CO OF NH	AMOSKEAG HYDRO	20143 20143-S01	3172.7	4231.399	3727.034	3324.781	4506.788	4853.345	5117.904	3422.250	988.616	1677.088	3822.956	4780.629	4229.851	
PUBLIC SERVICE CO OF NH	AMOSKEAG HYDRO	20143 20143-D01	3172.7	(4231.399)	(3727.034)	(3324.781)	(4506.788)	(4853.345)	(5117.904)	(3422.250)	(988.616)	(1677.088)	(3822.956)	(4780.629)	(4229.851)	
NYLON CORP OF AMERICA	NYLON CORP OF AMERICA	20138 20138-S02	3172.7	0.517	0.748	0.670	0.729	0.808	0.883	0.744	0.809	0.787	0.790	0.841		
NYLON CORP OF AMERICA	NYLON CORP OF AMERICA	20138 20138-D02	3172.7	(0.420)	(0.538)	(0.551)	(0.491)	(0.409)	(0.584)	(0.797)	(0.595)	(0.660)	(0.668)	(0.647)	(0.733)	
PITTSFIELD WWTF	WASTE WATER TREAT PLANT	20094 20094-D01	3172.7	(0.346)	(0.307)	(0.312)	(0.647)	(0.227)	(0.492)	(0.295)	(0.170)	(0.192)	(0.682)	(0.497)	(0.399)	
MANCHESTER WWTF	MANCHESTER POTW	20076 20076-D01	3172.7	(36.837)	(35.429)	(41.558)	(53.067)	(44.967)	(35.244)	(30.603)	(25.128)	(24.342)	(55.482)	(46.037)	(44.772)	
PEMBROKE WATER WORKS	PEMBROKE WATER WORKS	20058 20058-S06	3172.7	0.162	0.131	0.098	0.109	0.172	0.164	0.277	0.197	0.164	0.172	0.125	0.107	
PEMBROKE WATER WORKS	PEMBROKE WATER WORKS	20058 20058-S05	3172.7	0.669	0.601	0.510	0.485	0.622	0.584	0.782	0.518	0.516	0.697	0.568	0.486	
PEMBROKE WATER WORKS	PEMBROKE WATER WORKS	20058 20058-S03	3172.7	0.070	0.079	0.075	0.086	0.110	0.074	0.056	0.097	0.172	0.130	0.090	0.093	
PEMBROKE WATER WORKS	PEMBROKE WATER WORKS	20058 20058-S02	3172.7	0.149	0.172	0.141	0.162	0.163	0.114	0.126	0.143	0.162	0.157	0.122	0.141	
PEMBROKE WATER WORKS	PEMBROKE WATER WORKS	20058 20058-S01	3172.7	0.032	0.004	0.022	0.039	0.075	0.151	0.139	0.192	0.114	0.077	0.047	0.102	
MANCHESTER CITY	MANCHESTER WATER WORKS	20009 20009-S01	3172.7	21.755	21.893	21.539	22.916	24.820	32.307	33.693	34.315	32.096	25.388	22.772	23.092	
Piscataquog River	Sum of Piscataquog Water Use		3172.7	0.405	0.413	0.419	0.483	0.553	0.848	0.923	0.984	0.884	0.534			

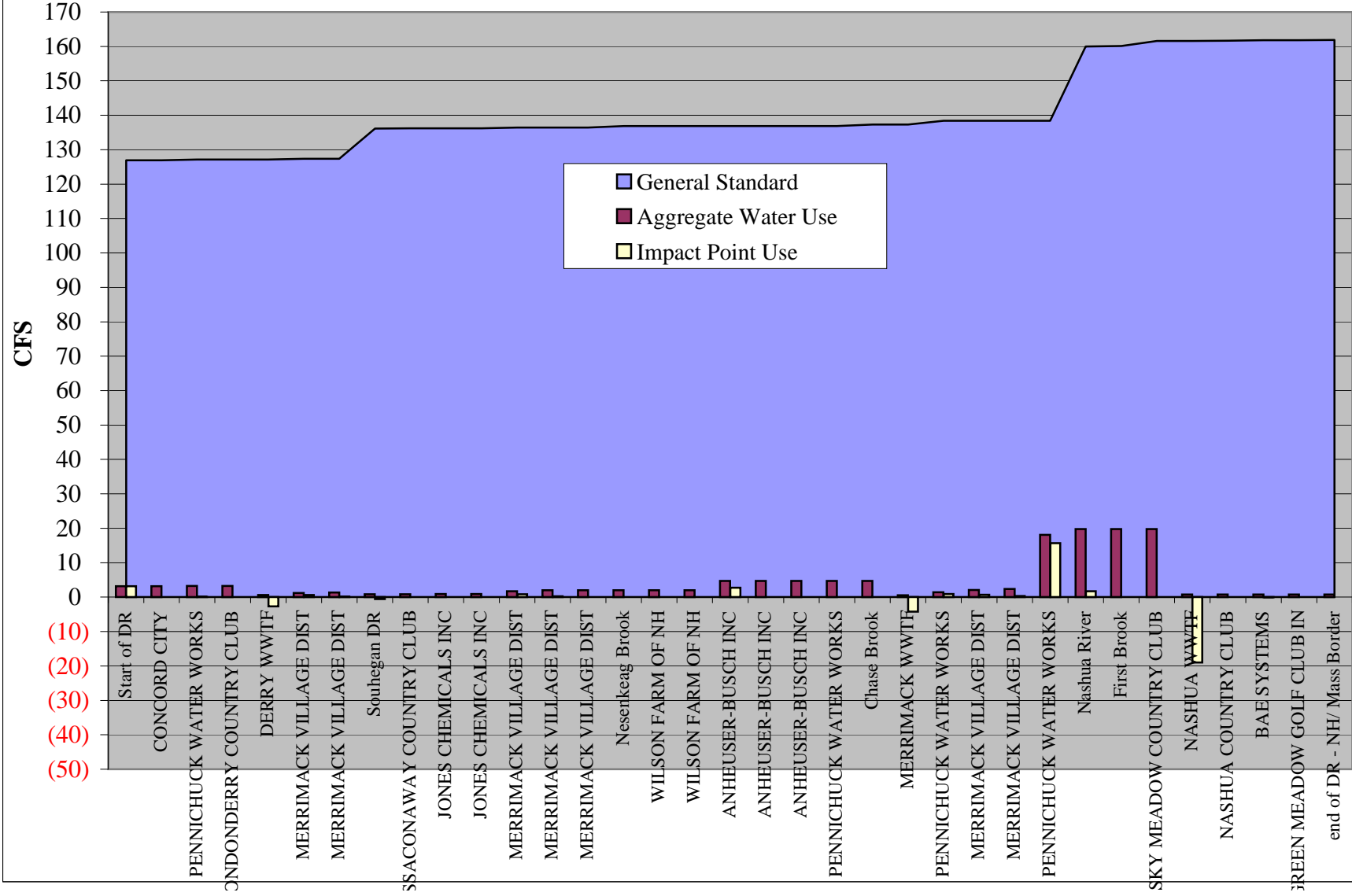
2005 Lower Merrimack Estimated Monthly Stream Flow at Each Impact Point in CFS	USGS 01092000 MERRIMACK R NR GOFFS FALLS, BELOW MANCHESTER, NH	Calculated monthly mean streamflow in CFSM	3092	1.83	1.50	1.67	6.18	3.38	2.87	1.43	0.51	0.75	6.41	4.39	3.17
WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Start of DR	U/S end of DR		3172.7	5813	4751	5293	19619	10733	9091	4527	1614	2370	20339	13920	10069
CONCORD CITY	WATER WORKS	20005 20005-S03	3172.7	5813	4751	5293	19619	10733	9091	4527	1614	2370	20339	13920	10069
PENNICHUCK WATER WORKS	BROOK PARK COMM WS	20350 20350-S02	3178.2	5823	4759	5302	19653	10752	9107	4535	1617	2374	20374	13944	10086
LONDONDERRY COUNTRY CLUB	LONDONDERRY COUNTRY CLU	20240 20240-S01	3178.2	5823	4759	5302	19653	10752	9107	4535	1617	2374	20374	13944	10086
DERRY WWTF	WASTE WATER TREAT PLANT	20101 20101-D01	3178.4	5823	4759	5302	19654	10752	9107	4535	1617	2375	20375	13945	10087
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S05	3184.6	5835	4769	5312	19693	10773	9125	4544	1620	2379	20415	13972	10107
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S04	3184.6	5835	4769	5312	19693	10773	9125	4544	1620	2379	20415	13972	10107
Souhegan DR	Sum of Souhegan Water Use		3404.3	6237	5098	5679	21051	11517	9755	4858	1732	2543	21823	14936	10804
PASSACONAWAY COUNTRY CLUB	GOLF COURSE	20476 20476-S01	3404.4	6237	5098	5679	21052	11517	9755	4858	1732	2543	21824	14937	10804
JONES CHEMICALS INC	MERRIMACK PLANT	20156 20156-S01	3404.4	6237	5098	5679	21052	11517	9755	4858	1732	2543	21824	14937	10804
JONES CHEMICALS INC	MERRIMACK PLANT	20156 20156-D01	3404.4	6237	5098	5679	21052	11517	9755	4858	1732	2543	21824	14937	10804
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S03	3410.7	6249	5107	5690	21091	11538	9773	4867	1735	2548	21864	14964	10824
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S02	3410.7	6249	5107	5690	21091	11538	9773	4867	1735	2548	21864	14964	10824
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S01	3410.7	6249	5107	5690	21091	11538	9773	4867	1735	2548	21864	14964	10824
Nesenkeag Brook	Nesenkeag Brook		3420.9	6268	5122	5707	21154	11572	9802	4881	1740	2556	21929	15009	10857
WILSON FARM OF NH	WILSON FARM	20307 20307-S04	3421.9	6269	5124	5708	21160	11576	9805	4883	1741	2556	21936	15013	10860
WILSON FARM OF NH	WILSON FARM	20307 20307-S02	3421.9	6269	5124	5708	21160	11576	9805	4883	1741	2556	21936	15013	10860
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-S01	3422.2	6270	5124	5709	21162	11577	9806	4883	1741	2557	21938	15015	10861
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-D03	3422.2	6270	5124	5709	21162	11577	9806	4883	1741	2557	21938	15015	10861
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-D01	3422.2	6270	5124	5709	21162	11577	9806	4883	1741	2557	21938	15015	10861
PENNICHUCK WATER WORKS	WATER WORKS	20030 20030-S02	3422.5	6271	5125	5709	21164	11578	9807	4884	1741	2557	21940	15016	10862
Chase Brook	Chase Brook		3431.8	6288	5139	5725	21221	11609	9834	4897	1746	2564	21999	15057	10891
MERRIMACK WWTF	WASTE WATER TREAT PLANT	20091 20091-D01	3432.7	6289	5140	5726	21227	11613	9836	4898	1746	2565	22005	15061	10894
PENNICHUCK WATER WORKS	BON TERRAIN	20703 20703-S01	3459.7	6339	5181	5771	21394	11704	9914	4937	1760	2585	22179	15179	10980
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S08	3459.7	6339	5181	5771	21394	11704	9914	4937	1760	2585	22179	15179	10980
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S07	3459.7	6339	5181	5771	21394	11704	9914	4937	1760	2585	22179	15179	10980
PENNICHUCK WATER WORKS	WATER WORKS	20030 20030-S01	3459.7	6339	5181	5771	21394	11704	9914	4937	1760	2585	22179	15179	10980
Nashua River	Nashua River		3998.7	7326	5988	6671	24727	13527	11458	5706	2034	2987	25634	17544	12691
First Brook	First Brook		4004.0	7336	5996	6679	24759	13545	11473	5713	2037	2991	25667	17567	12707
SKY MEADOW COUNTRY CLUB	SKY MEADOW GOLF COURSE	20114 20114-S01	4040.5	7403	6050	6740	24985	13669	11578	5765	2056	3019	25902	17728	12823
NASHUA WWTF	NASHUA POTW	20077 20077-D01	4040.6	7403	6050	6740	24986	13669	11578	5766	2056	3019	25902	17728	12823
NASHUA COUNTRY CLUB	NASHUA COUNTRY CLUB	20684 20684-S01	4041.8	7405	6052	6742	24993	13673	11582	5767	2056	3020	25910	17733	12827
BAE SYSTEMS	NHQ/MEC FACILITIES	20372 20372-D02	4045.5	7412	6058	6749	25016	13685	11592	5773	2058	3022	25933	17749	12839
GREEN MEADOW GOLF CLUB IN	GREEN MEADOW GOLF CLUB IN	20227 20227-S01	4045.5	7412	6058	6749	25016	13685	11592	5773	2058	3022	25933	17749	12839
end of DR - NH/ Mass Border	end of DR - NH/ Mass Border		4046.3	7413	6059	6750	25021	13688	11594	5774	2058	3023	25939	17753	12841

2005 Lower Merrimack Aggregate Water Use in CFS															
WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Start of DR	Start of DR		3172.7	3.2	(5.5)	(3.2)	(33.8)	(13.5)	12.2	26.1	25.4	36.7	(38.2)	(24.8)	(13.9)
CONCORD CITY	WATER WORKS	20005 20005-S03	3172.7	3.2	(5.5)	(3.2)	(33.8)	(13.5)	12.2	26.1	25.4	36.7	(38.2)	(24.8)	(13.9)
PENNICHUCK WATER WORKS	BROOK PARK COMM WS	20350 20350-S02	3178.2	3.3	(5.4)	(3.1)	(33.7)	(13.4)	12.3	26.3	25.5	36.9	(38.2)	(24.8)	(13.9)
LONDONDERRY COUNTRY CLUB	LONDONDERRY COUNTRY CLUB	20240 20240-S01	3178.2	3.3	(5.4)	(3.1)	(33.6)	(13.4)	12.4	26.3	25.6	36.9	(38.2)	(24.8)	(13.9)
DERRY WWTF	WASTE WATER TREAT PLANT	20101 20101-D01	3178.4	0.6	(8.2)	(5.9)	(37.4)	(16.7)	9.5	24.1	23.7	35.1	(41.6)	(28.3)	(17.1)
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S05	3184.6	1.2	(7.5)	(5.4)	(36.7)	(15.9)	10.3	25.0	24.6	35.9	(40.9)	(27.6)	(16.3)
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S04	3184.6	1.3	(7.4)	(5.2)	(36.5)	(15.7)	10.6	25.2	24.8	36.2	(40.7)	(27.4)	(16.0)
Souhegan DR	Sum of Souhegan Water Use		3404.3	0.8	(8.0)	(6.0)	(37.9)	(16.3)	11.2	26.6	26.6	37.8	(42.2)	(28.8)	(17.3)
PASSACONAWAY COUNTRY CLUB	GOLF COURSE	20476 20476-S01	3404.4	0.8	(8.0)	(6.0)	(37.6)	(16.0)	11.5	26.9	26.9	38.1	(42.2)	(28.8)	(17.3)
JONES CHEMICALS INC	MERRIMACK PLANT	20156 20156-S01	3404.4	0.9	(7.9)	(6.0)	(37.5)	(16.0)	11.6	26.9	27.0	38.1	(42.2)	(28.7)	(17.3)
JONES CHEMICALS INC	MERRIMACK PLANT	20156 20156-D01	3404.4	0.9	(7.9)	(6.0)	(37.5)	(16.0)	11.6	26.9	27.0	38.1	(42.2)	(28.7)	(17.3)
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S03	3410.7	1.7	(7.1)	(5.4)	(36.6)	(15.0)	12.6	28.1	28.1	39.1	(41.2)	(27.7)	(16.7)
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S02	3410.7	2.0	(7.0)	(4.6)	(35.4)	(13.6)	14.2	29.8	29.8	40.6	(40.0)	(26.6)	(15.4)
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S01	3410.7	2.0	(7.0)	(4.6)	(35.4)	(13.6)	14.2	29.8	29.8	40.6	(40.0)	(26.6)	(15.4)
Nesenkeag Brook	Nesenkeag Brook		3420.9	2.0	(7.0)	(4.6)	(35.4)	(13.6)	14.2	29.8	29.8	40.6	(40.0)	(26.6)	(15.4)
WILSON FARM OF NH	WILSON FARM	20307 20307-S04	3421.9	2.0	(7.0)	(4.6)	(35.4)	(13.6)	14.2	29.8	29.8	40.6	(40.0)	(26.6)	(15.4)
WILSON FARM OF NH	WILSON FARM	20307 20307-S02	3421.9	2.0	(7.0)	(4.6)	(35.4)	(13.6)	14.3	29.9	29.9	40.6	(40.0)	(26.6)	(15.4)
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-S01	3422.2	4.7	(4.2)	(1.9)	(32.4)	(10.5)	17.6	33.4	33.8	44.2	(37.5)	(24.1)	(12.8)
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-D03	3422.2	4.7	(4.2)	(1.9)	(32.4)	(10.6)	17.5	33.2	33.6	44.1	(37.5)	(24.1)	(12.8)
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-D01	3422.2	4.7	(4.2)	(1.9)	(32.4)	(10.6)	17.5	33.2	33.6	44.1	(37.5)	(24.1)	(12.8)
PENNICHUCK WATER WORKS	WATER WORKS	20030 20030-S02	3422.5	4.7	(4.2)	(1.9)	(32.4)	(10.6)	17.5	34.2	40.7	64.4	(36.8)	(24.1)	(12.8)
Chase Brook	Chase Brook		3431.8	4.7	(4.2)	(1.9)	(32.4)	(10.6)	17.5	34.4	40.8	64.5	(36.7)	(24.1)	(12.8)
MERRIMACK WWTF	WASTE WATER TREAT PLANT	20091 20091-D01	3432.7	0.5	(8.6)	(6.3)	(37.1)	(15.2)	12.7	29.8	35.9	60.1	(41.4)	(28.5)	(17.1)
PENNICHUCK WATER WORKS	BON TERRAIN	20703 20703-S01	3459.7	1.4	(7.4)	(5.2)	(36.0)	(14.0)	13.9	31.1	37.2	61.3	(40.2)	(27.4)	(15.9)
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S08	3459.7	2.1	(6.7)	(4.7)	(36.0)	(13.8)	14.9	32.0	38.1	62.2	(39.9)	(27.4)	(15.9)
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S07	3459.7	2.4	(6.4)	(4.4)	(35.9)	(13.8)	15.4	32.5	38.6	62.7	(39.8)	(27.4)	(15.9)
PENNICHUCK WATER WORKS	WATER WORKS	20030 20030-S01	3459.7	18.1	10.0	11.9	(19.6)	5.5	41.2	58.5	58.5	66.6	(23.0)	(12.2)	(1.2)
Nashua River	Nashua River		3998.7	19.8	11.7	13.6	(17.7)	8.8	44.6	61.2	61.2	69.3	(21.1)	(10.4)	0.5
First Brook	First Brook		4004.0	19.8	11.7	13.6	(17.5)	9.0	44.8	61.4	61.4	69.5	(21.0)	(10.3)	0.5
SKY MEADOW COUNTRY CLUB	SKY MEADOW GOLF COURSE	20114 20114-S01	4040.5	19.8	11.7	13.6	(17.5)	9.0	44.9	61.5	61.4	69.6	(20.9)	(10.3)	0.5
NASHUA WWTF	NASHUA POTW	20077 20077-D01	4040.6	0.8	(8.5)	(7.9)	(42.1)	(14.9)	24.1	43.5	44.8	54.6	(45.8)	(32.1)	(21.0)
NASHUA COUNTRY CLUB	NASHUA COUNTRY CLUB	20684 20684-S01	4041.8	0.8	(8.5)	(7.9)	(42.1)	(14.8)	24.4	43.8	45.1	54.8	(45.8)	(32.1)	(21.0)
BAE SYSTEMS	NHQ/MEC FACILITIES	20372 20372-D02	4045.5	0.8	(8.5)	(8.0)	(42.1)	(14.9)	24.3	43.7	45.1	54.7	(45.8)	(32.1)	(21.0)
GREEN MEADOW GOLF CLUB IN	GREEN MEADOW GOLF CLUB IN	20227 20227-S01	4045.5	0.8	(8.5)	(8.0)	(42.1)	(14.9)	24.5	44.9	46.3	55.7	(45.8)	(32.1)	(21.0)
end of DR - NH/ Mass Border	end of DR - NH/ Mass Border		4046.3	0.8	(8.5)	(8.0)	(42.1)	(14.9)	24.5	44.9	46.3	55.7	(45.8)	(32.1)	(21.0)

2005 Lower Merrimack Estimated Monthly General Standard at Each Impact Point in CFS																
USGS 01092000 MERRIMACK R NR GOFFS FALLS, BELOW MANCHESTER, NH																
General Standard in cfs/m																
3092 0.04 0.04 0.04 0.16 0.04 0.04 0.04 0.02 0.02 0.16 0.16 0.04																
WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Start of DR	U/S end of DR		3172.7	127	127	127	508	127	127	127	63	63	508	508	127	
CONCORD CITY	WATER WORKS	20005 20005-S03	3172.7	127	127	127	508	127	127	127	63	63	508	508	127	
PENNICHUCK WATER WORKS	BROOK PARK COMM WS	20350 20350-S02	3178.2	127	127	127	509	127	127	127	64	64	509	509	127	
LONDONDERRY COUNTRY CLUB	LONDONDERRY COUNTRY CLUB	20240 20240-S01	3178.2	127	127	127	509	127	127	127	64	64	509	509	127	
DERRY WWTF	WASTE WATER TREAT PLANT	20101 20101-D01	3178.4	127	127	127	509	127	127	127	64	64	509	509	127	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S05	3184.6	127	127	127	510	127	127	127	64	64	510	510	127	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S04	3184.6	127	127	127	510	127	127	127	64	64	510	510	127	
Souhegan DR	Sum of Souhegan Water Use		3404.3	136	136	136	545	136	136	136	68	68	545	545	136	
PASSACONAWAY COUNTRY CLUB	GOLF COURSE	20476 20476-S01	3404.4	136	136	136	545	136	136	136	68	68	545	545	136	
JONES CHEMICALS INC	MERRIMACK PLANT	20156 20156-S01	3404.4	136	136	136	545	136	136	136	68	68	545	545	136	
JONES CHEMICALS INC	MERRIMACK PLANT	20156 20156-D01	3404.4	136	136	136	545	136	136	136	68	68	545	545	136	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S03	3410.7	136	136	136	546	136	136	136	68	68	546	546	136	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S02	3410.7	136	136	136	546	136	136	136	68	68	546	546	136	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S01	3410.7	136	136	136	546	136	136	136	68	68	546	546	136	
Nesenkeag Brook	Nesenkeag Brook		3420.9	137	137	137	547	137	137	137	68	68	547	547	137	
WILSON FARM OF NH	WILSON FARM	20307 20307-S04	3421.9	137	137	137	548	137	137	137	68	68	548	548	137	
WILSON FARM OF NH	WILSON FARM	20307 20307-S02	3421.9	137	137	137	548	137	137	137	68	68	548	548	137	
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-S01	3422.2	137	137	137	548	137	137	137	68	68	548	548	137	
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-D03	3422.2	137	137	137	548	137	137	137	68	68	548	548	137	
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-D01	3422.2	137	137	137	548	137	137	137	68	68	548	548	137	
PENNICHUCK WATER WORKS	WATER WORKS	20030 20030-S02	3422.5	137	137	137	548	137	137	137	68	68	548	548	137	
Chase Brook	Chase Brook		3431.8	137	137	137	549	137	137	137	69	69	549	549	137	
MERRIMACK WWTF	WASTE WATER TREAT PLANT	20091 20091-D01	3432.7	137	137	137	549	137	137	137	69	69	549	549	137	
PENNICHUCK WATER WORKS	BON TERRAIN	20703 20703-S01	3459.7	138	138	138	554	138	138	138	69	69	554	554	138	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S08	3459.7	138	138	138	554	138	138	138	69	69	554	554	138	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S07	3459.7	138	138	138	554	138	138	138	69	69	554	554	138	
PENNICHUCK WATER WORKS	WATER WORKS	20030 20030-S01	3459.7	138	138	138	554	138	138	138	69	69	554	554	138	
Nashua River	Nashua River		3998.7	160	160	160	640	160	160	160	80	80	640	640	160	
First Brook	First Brook		4004.0	160	160	160	641	160	160	160	80	80	641	641	160	
SKY MEADOW COUNTRY CLUB	SKY MEADOW GOLF COURSE	20114 20114-S01	4040.5	162	162	162	646	162	162	162	81	81	646	646	162	
NASHUA WWTF	NASHUA POTW	20077 20077-D01	4040.6	162	162	162	646	162	162	162	81	81	646	646	162	
NASHUA COUNTRY CLUB	NASHUA COUNTRY CLUB	20684 20684-S01	4041.8	162	162	162	647	162	162	162	81	81	647	647	162	
BAE SYSTEMS	NHQ/MEC FACILITIES	20372 20372-D02	4045.5	162	162	162	647	162	162	162	81	81	647	647	162	
GREEN MEADOW GOLF CLUB IN	GREEN MEADOW GOLF CLUB IN	20227 20227-S01	4045.5	162	162	162	647	162	162	162	81	81	647	647	162	
end of DR - NH/ Mass Border	end of DR - NH/ Mass Border		4046.3	162	162	162	647	162	162	162	81	81	647	647	162	

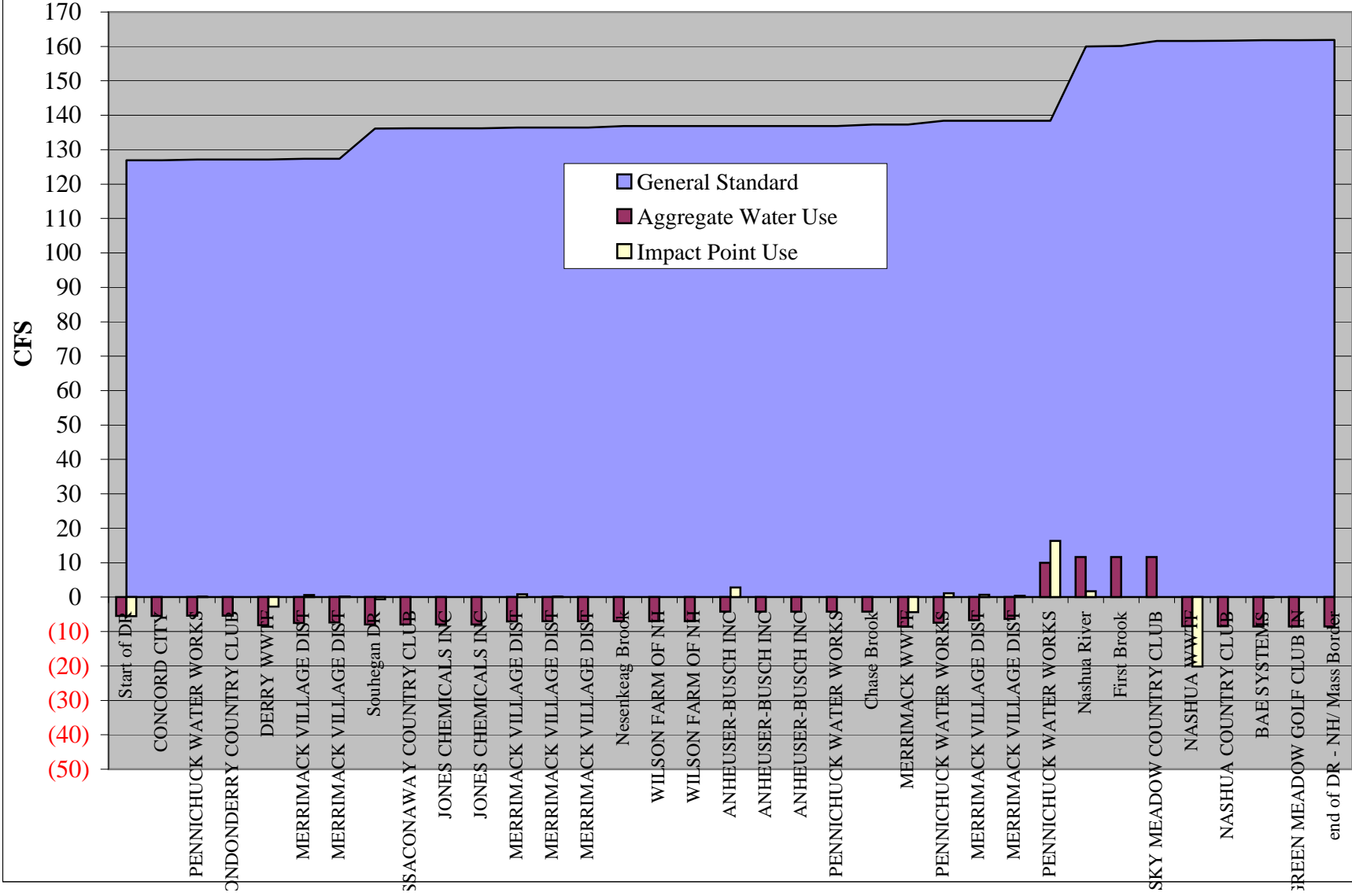
2005 Lower Merrimack Estimated Monthly Margin of the Aggregate Water Use Below the General Standard																
WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Start of DR	U/S end of DR		3172.7	124	132	130	541	140	115	101	38	27	546	532	141	
CONCORD CITY	WATER WORKS	20005 20005-S03	3172.7	124	132	130	541	140	115	101	38	27	546	532	141	
PENNICHUCK WATER WORKS	BROOK PARK COMM WS	20350 20350-S02	3178.2	124	133	130	542	141	115	101	38	27	547	533	141	
LONDONDERRY COUNTRY CLUB	LONDONDERRY COUNTRY CLUB	20240 20240-S01	3178.2	124	133	130	542	141	115	101	38	27	547	533	141	
DERRY WWTF	WASTE WATER TREAT PLANT	20101 20101-D01	3178.4	127	135	133	546	144	118	103	40	28	550	537	144	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S05	3184.6	126	135	133	546	143	117	102	39	28	550	537	144	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S04	3184.6	126	135	133	546	143	117	102	39	28	550	537	143	
Souhegan DR	Sum of Souhegan Water Use		3404.3	135	144	142	583	153	125	110	41	30	587	573	154	
PASSACONAWAY COUNTRY CLUB	GOLF COURSE	20476 20476-S01	3404.4	135	144	142	582	152	125	109	41	30	587	573	154	
JONES CHEMICALS INC	MERRIMACK PLANT	20156 20156-S01	3404.4	135	144	142	582	152	125	109	41	30	587	573	153	
JONES CHEMICALS INC	MERRIMACK PLANT	20156 20156-D01	3404.4	135	144	142	582	152	125	109	41	30	587	573	153	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S03	3410.7	135	144	142	582	151	124	108	40	29	587	573	153	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S02	3410.7	134	143	141	581	150	122	107	38	28	586	572	152	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S01	3410.7	134	143	141	581	150	122	107	38	28	586	572	152	
Nesenkeag Brook	Nesenkeag Brook		3420.9	135	144	141	583	150	123	107	39	28	587	574	152	
WILSON FARM OF NH	WILSON FARM	20307 20307-S04	3421.9	135	144	141	583	150	123	107	39	28	588	574	152	
WILSON FARM OF NH	WILSON FARM	20307 20307-S02	3421.9	135	144	141	583	150	123	107	39	28	588	574	152	
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-S01	3422.2	132	141	139	580	147	119	103	35	24	585	572	150	
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-D03	3422.2	132	141	139	580	148	119	104	35	24	585	572	150	
ANHEUSER-BUSCH INC	MERRIMACK BREWERY	20308 20308-D01	3422.2	132	141	139	580	148	119	104	35	24	585	572	150	
PENNICHUCK WATER WORKS	WATER WORKS	20030 20030-S02	3422.5	132	141	139	580	148	119	103	28	4.1	584	572	150	
Chase Brook	Chase Brook		3431.8	133	141	139	581	148	120	103	28	4.1	586	573	150	
MERRIMACK WWTF	WASTE WATER TREAT PLANT	20091 20091-D01	3432.7	137	146	144	586	153	125	108	33	8.6	591	578	154	
PENNICHUCK WATER WORKS	BON TERRAIN	20703 20703-S01	3459.7	137	146	144	590	152	124	107	32	7.9	594	581	154	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S08	3459.7	136	145	143	590	152	123	106	31	7.0	593	581	154	
MERRIMACK VILLAGE DIST	WATER WORKS	20504 20504-S07	3459.7	136	145	143	589	152	123	106	31	6.5	593	581	154	
PENNICHUCK WATER WORKS	WATER WORKS	20030 20030-S01	3459.7	120	128	127	573	133	97	80	11	2.6	577	566	140	
Nashua River	Nashua River		3998.7	140	148	146	657	151	115	99	19	11	661	650	159	
First Brook	First Brook		4004.0	140	148	147	658	151	115	99	19	11	662	651	160	
SKY MEADOW COUNTRY CLUB	SKY MEADOW GOLF COURSE	20114 20114-S01	4040.5	142	150	148	664	153	117	100	19	11	667	657	161	
NASHUA WWTF	NASHUA POTW	20077 20077-D01	4040.6	161	170	170	689	176	138	118	36	26	692	679	183	
NASHUA COUNTRY CLUB	NASHUA COUNTRY CLUB	20684 20684-S01	4041.8	161	170	170	689	177	137	118	36	26	692	679	183	
BAE SYSTEMS	NHQ/MEC FACILITIES	20372 20372-D02	4045.5	161	170	170	689	177	138	118	36	26	693	679	183	
GREEN MEADOW GOLF CLUB IN	GREEN MEADOW GOLF CLUB IN	20227 20227-S01	4045.5	161	170	170	689	177	137	117	35	25	693	679	183	
end of DR - NH/ Mass Border	end of DR - NH/ Mass Border		4046.3	161	170	170	690	177	137	117	35	25	693	680	183	

January 2005 Lower Merrimack

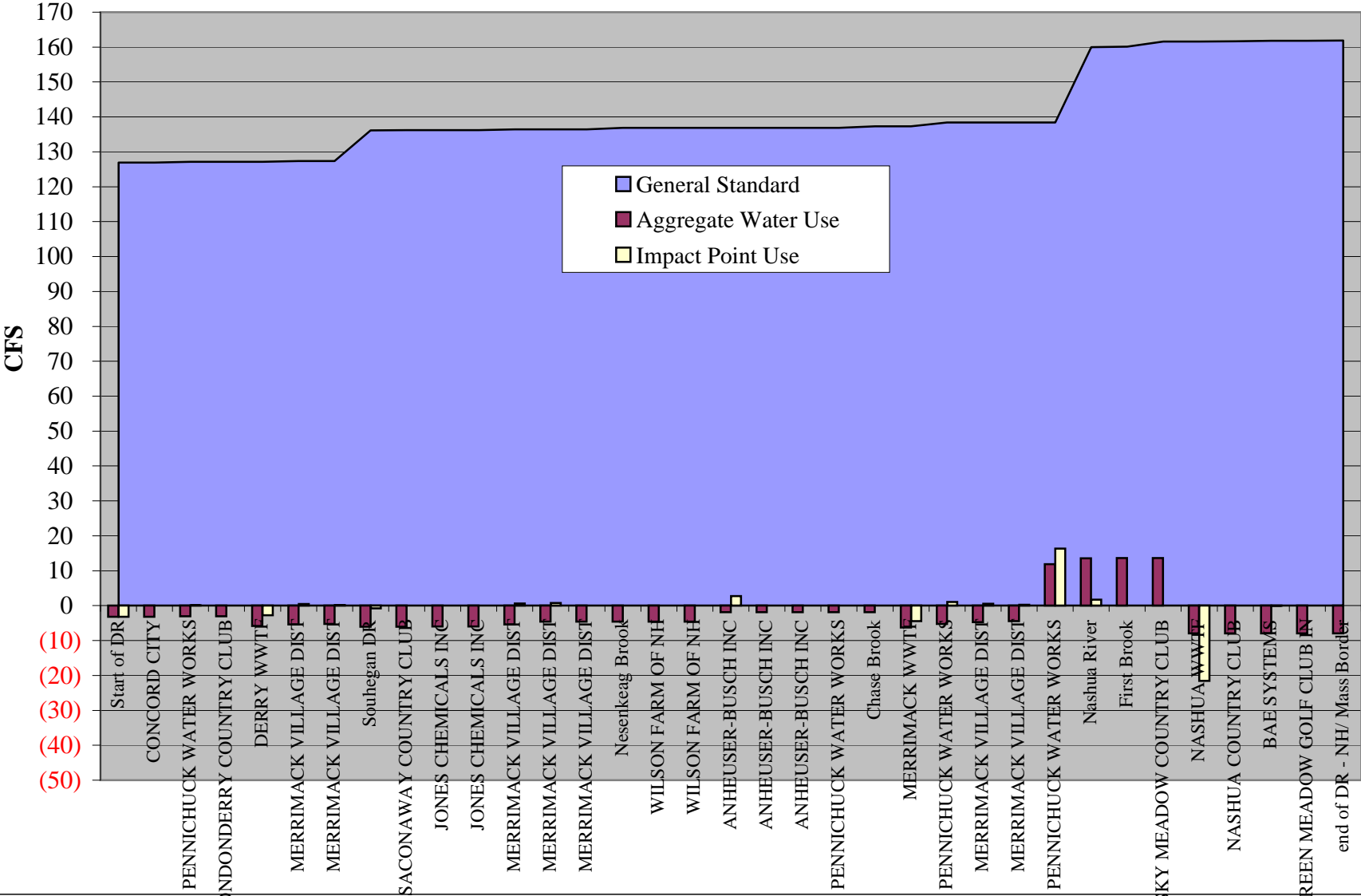


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February 2005 Lower Merrimack

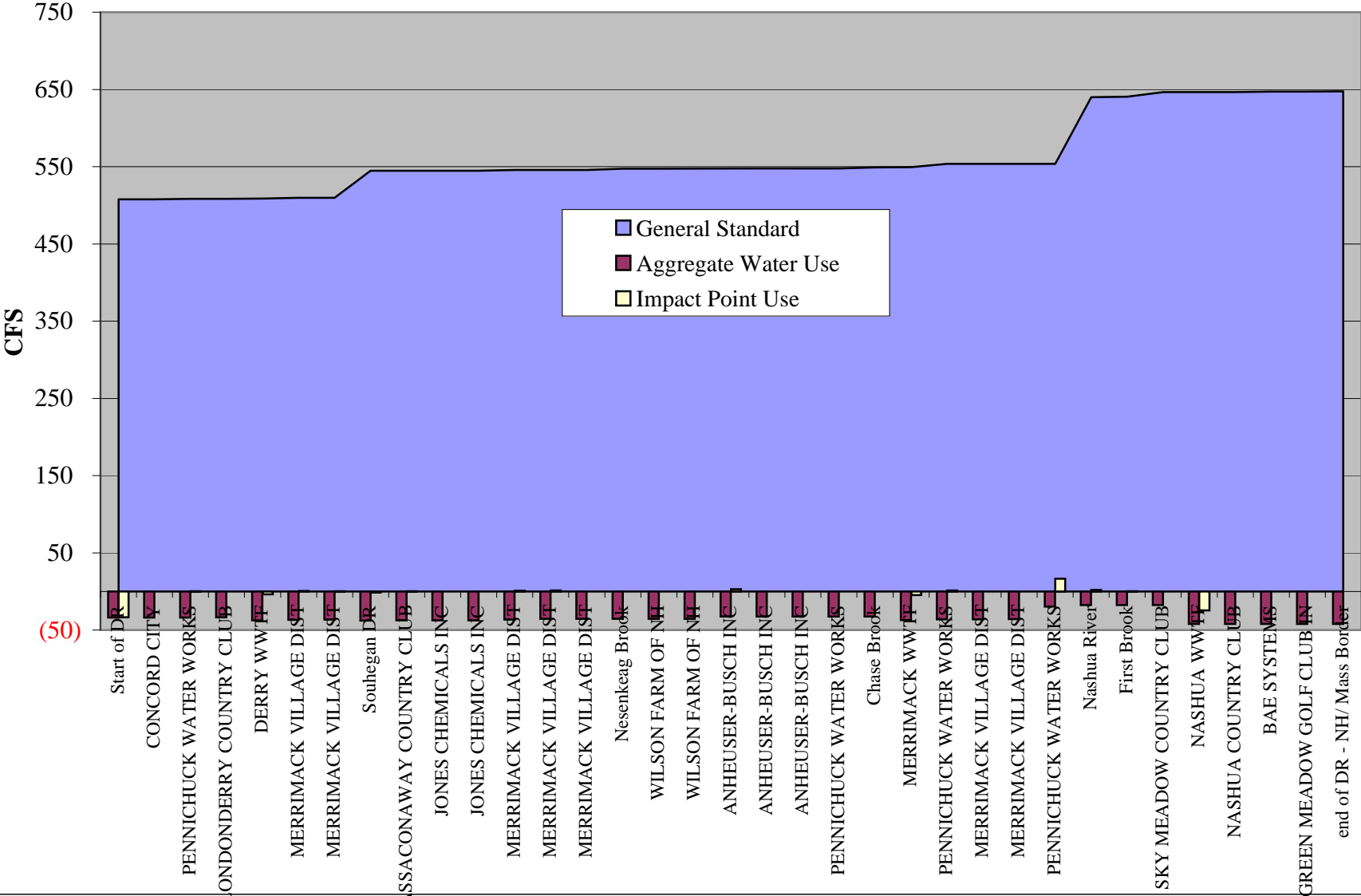


March 2005 Lower Merrimack



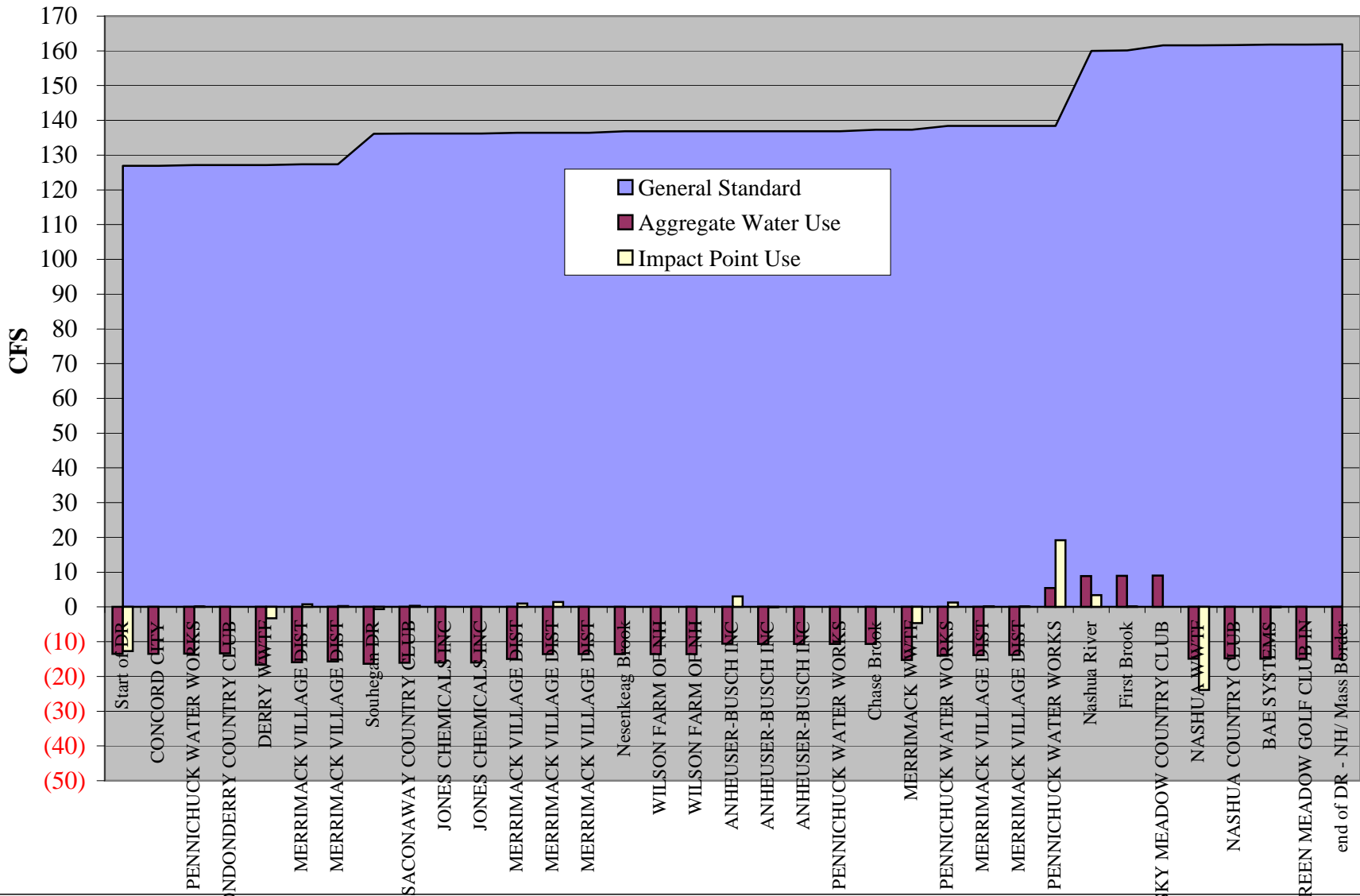
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April 2005 Lower Merrimack



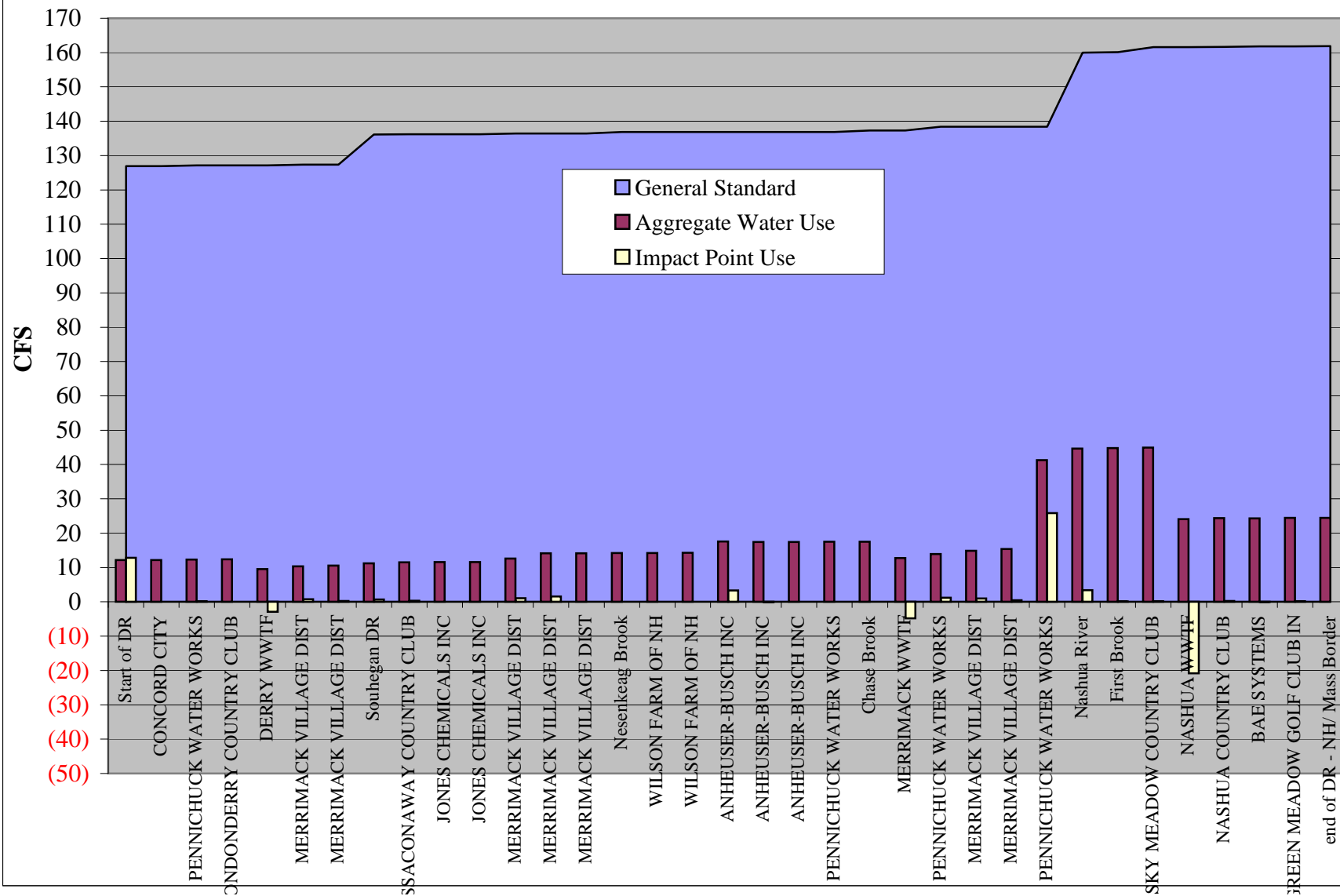
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May 2005 Lower Merrimack



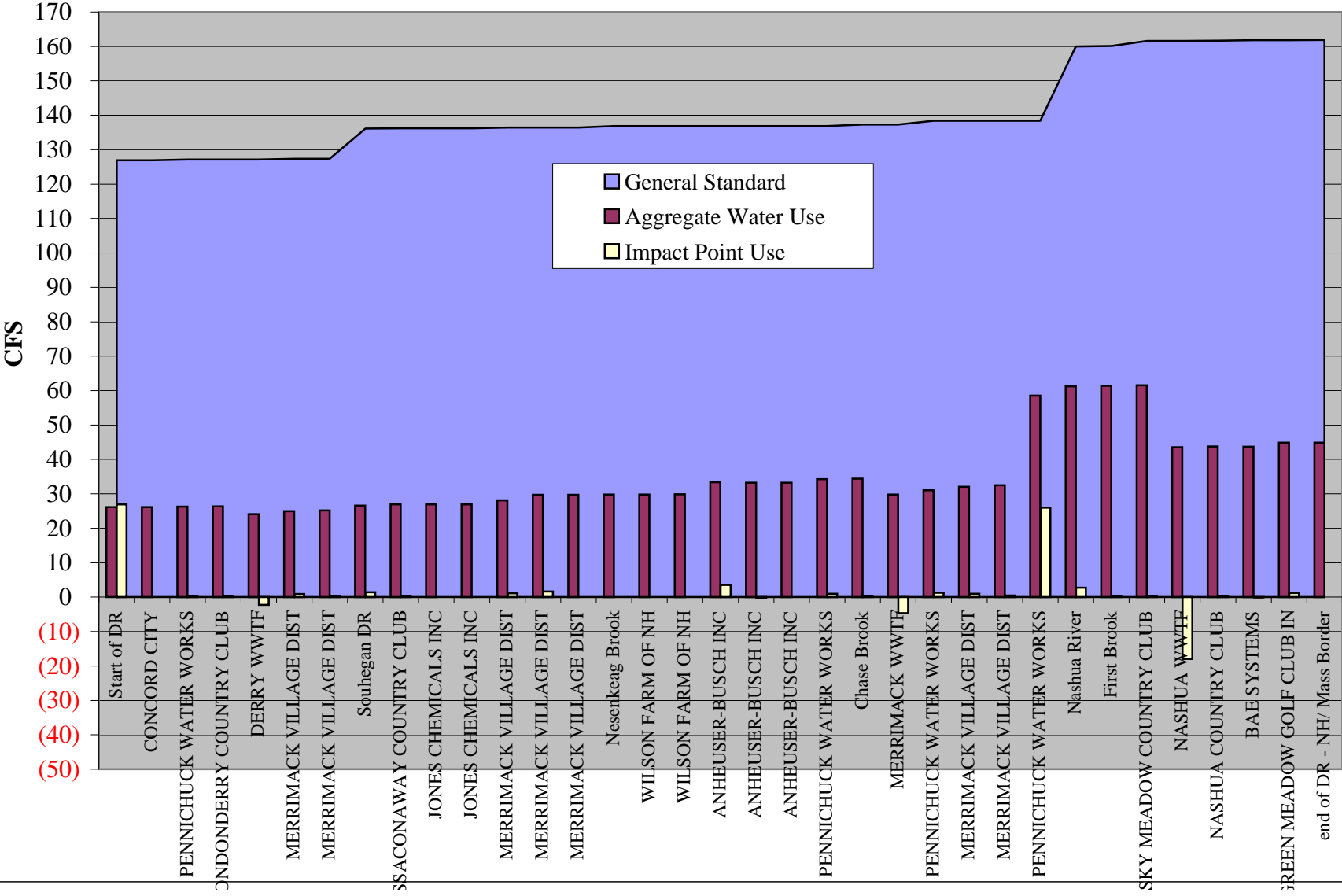
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June 2005 Lower Merrimack



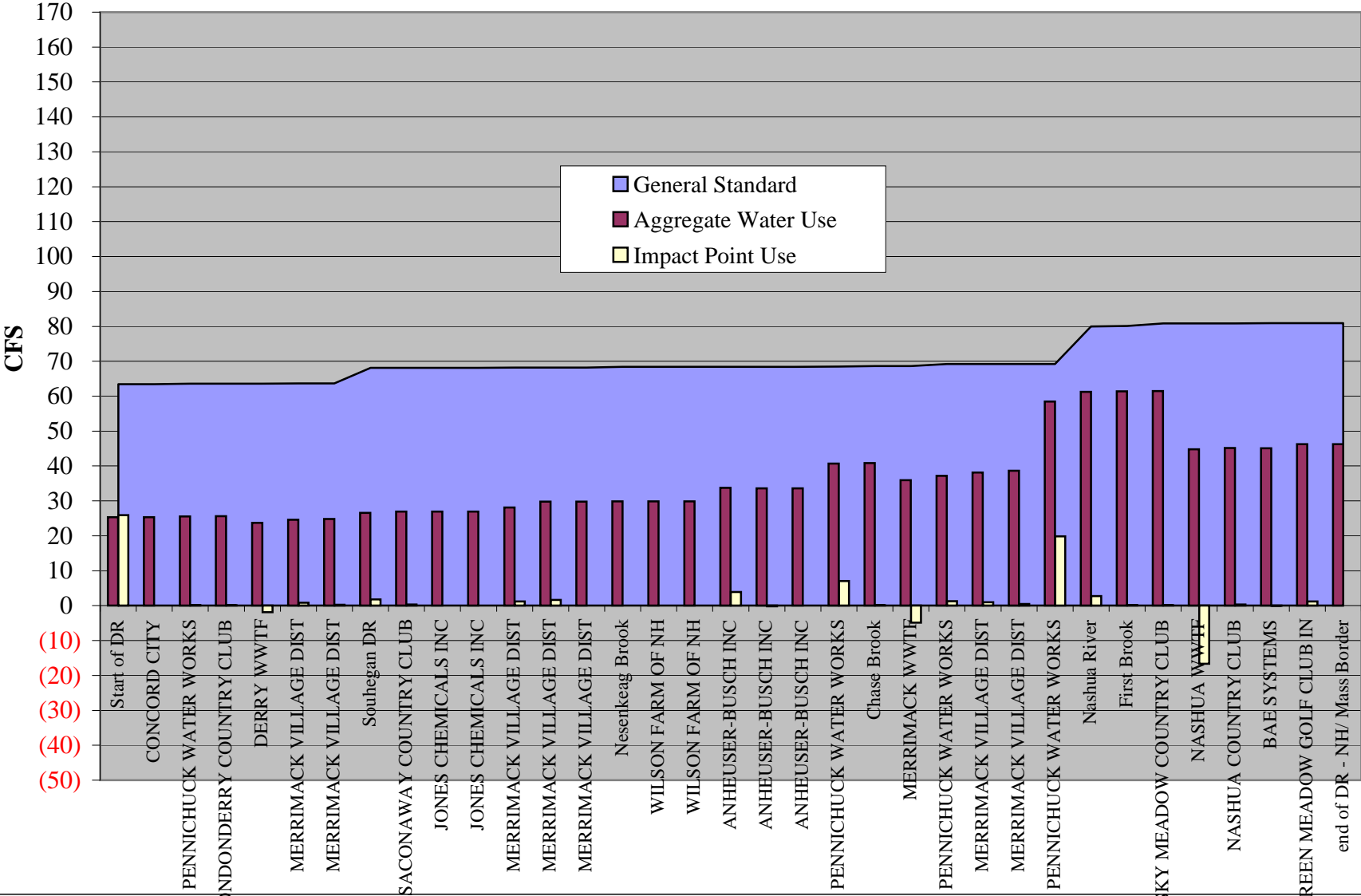
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July 2005 Lower Merrimack



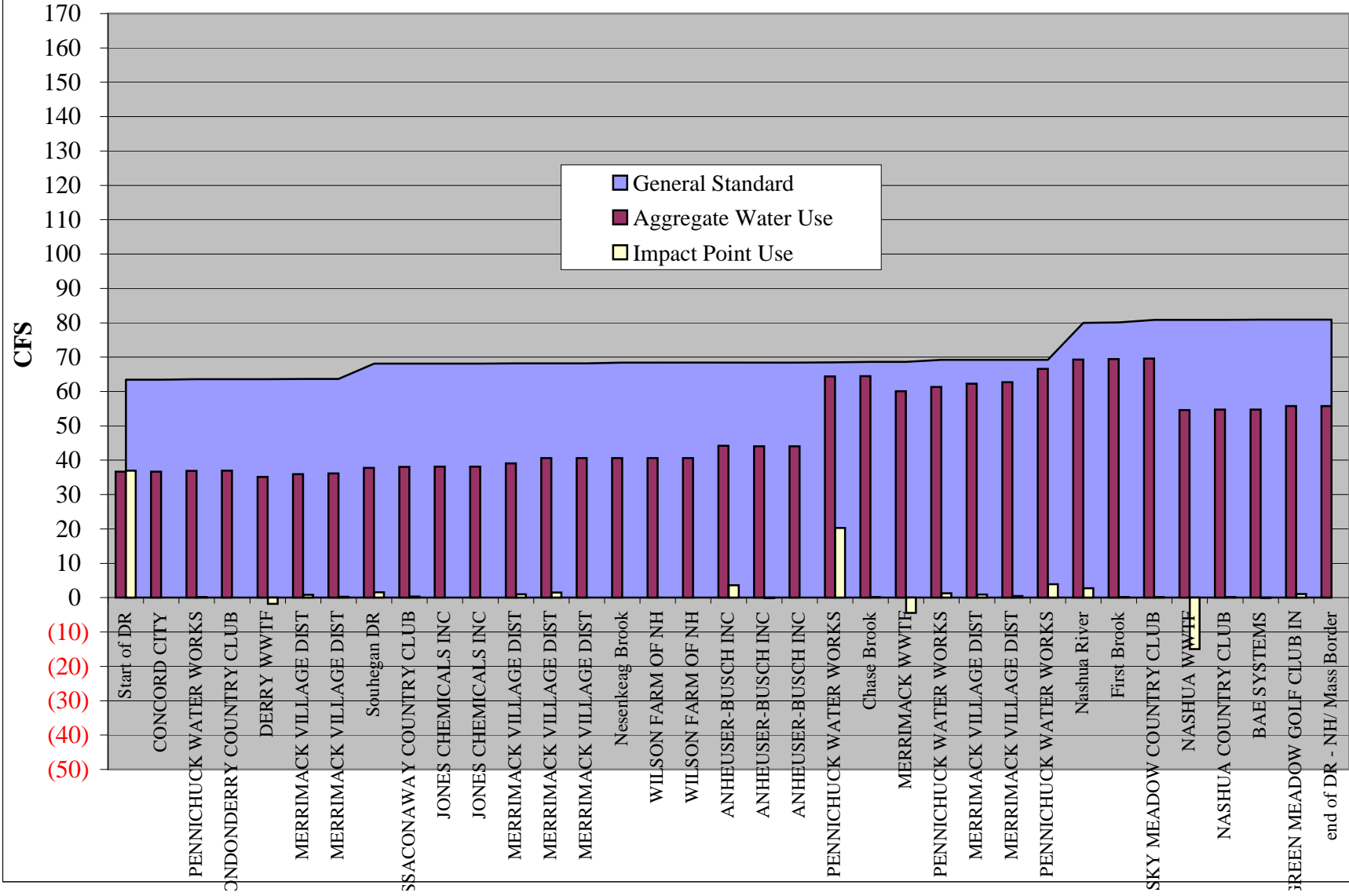
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August 2005 Lower Merrimack

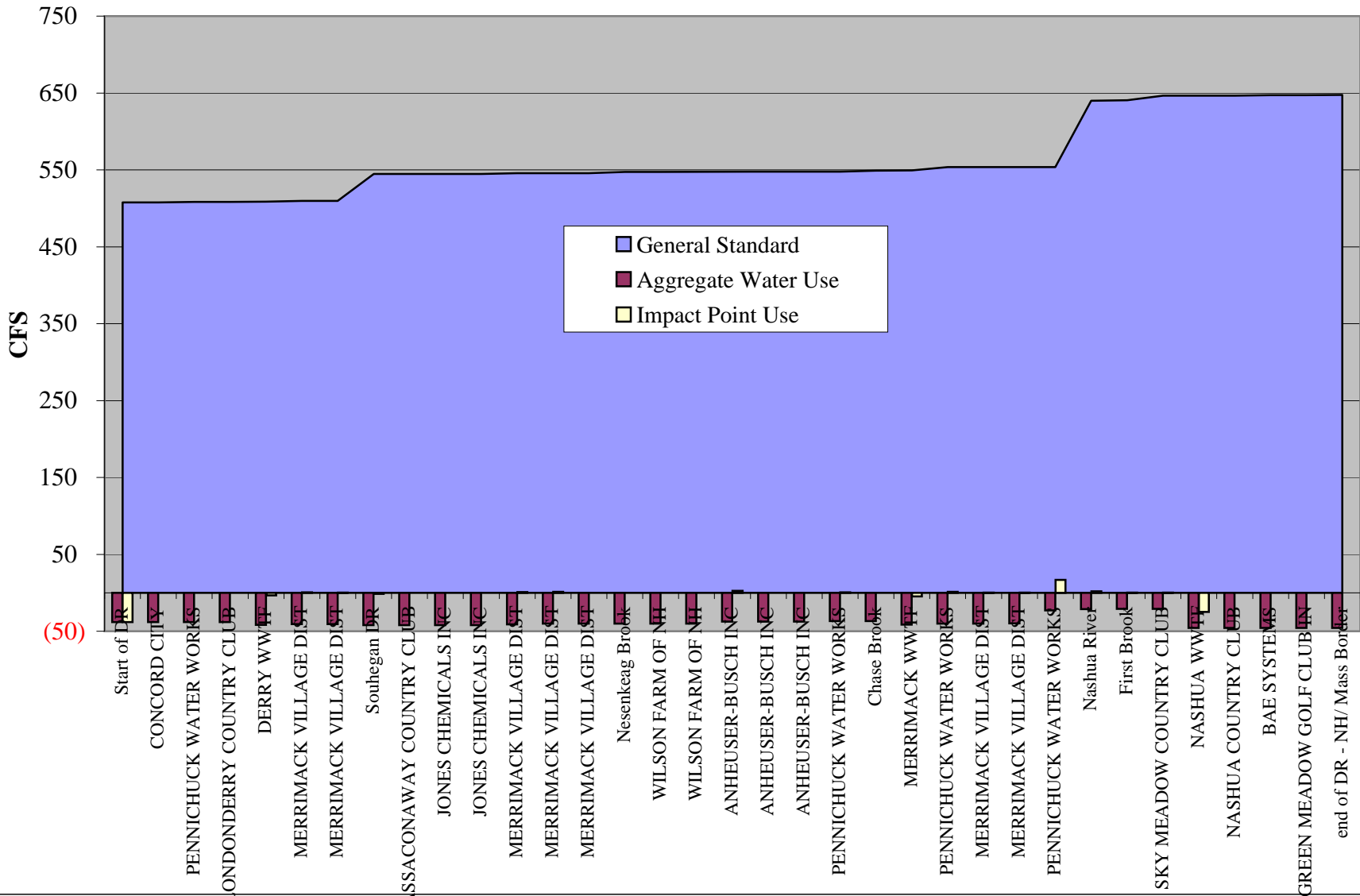


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September 2005 Lower Merrimack

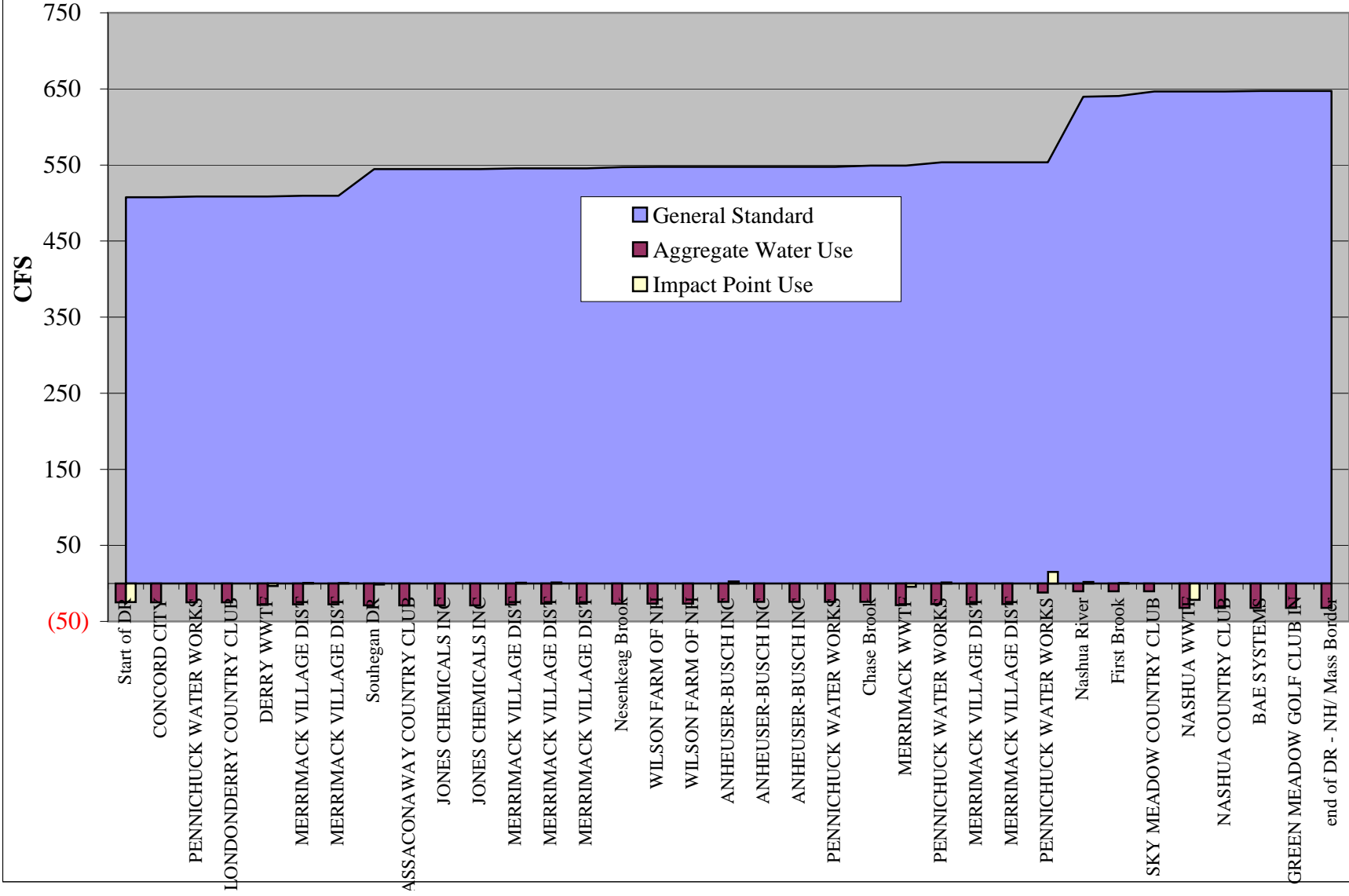


October 2005 Lower Merrimack

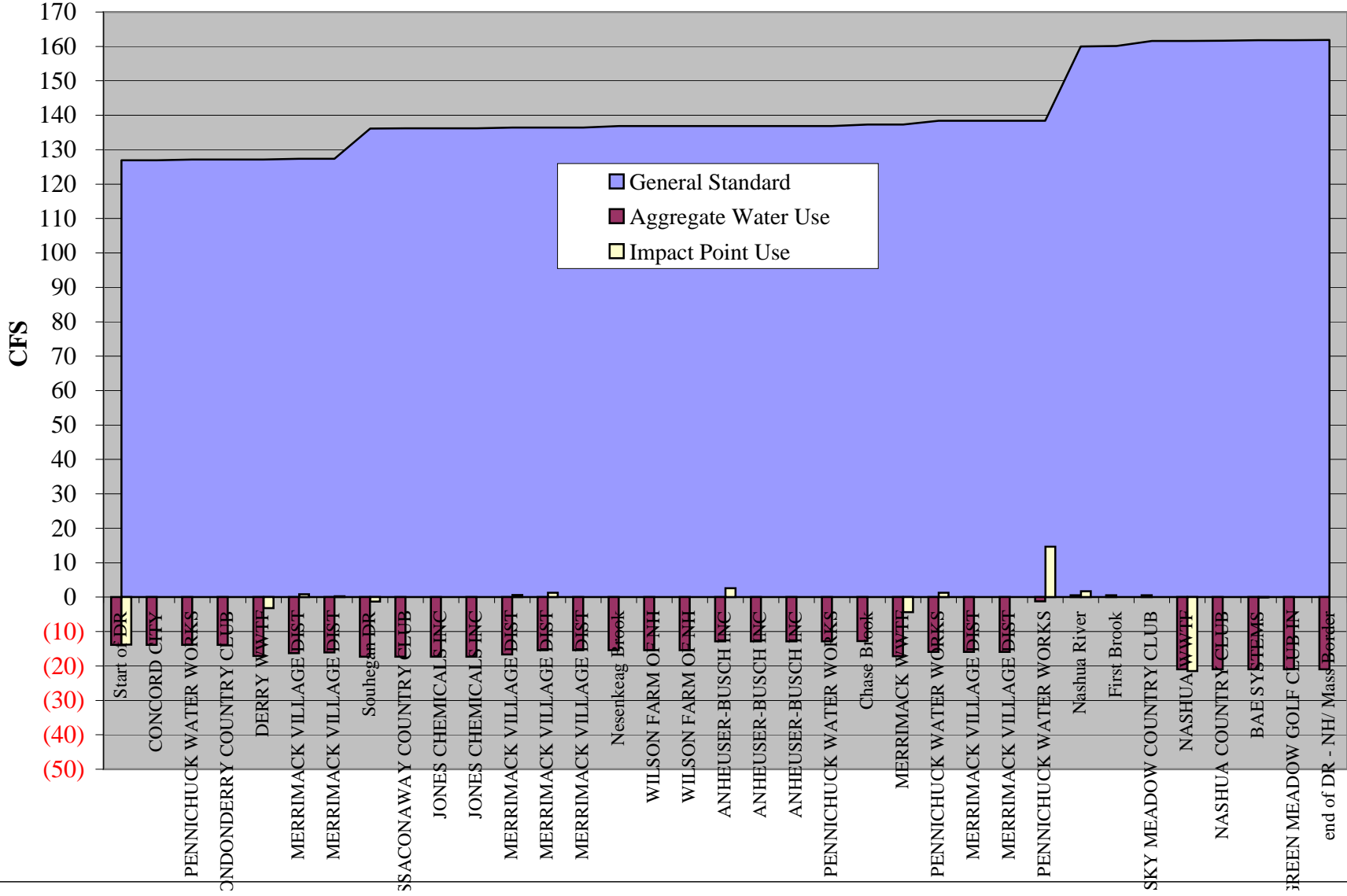


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November 2005 Lower Merrimack



December 2005 Lower Merrimack



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General Standard
Aggregate Water Use
Impact Point Use