Ashuelot Annual Water Use versus Stream Flow – Calendar Year 2005

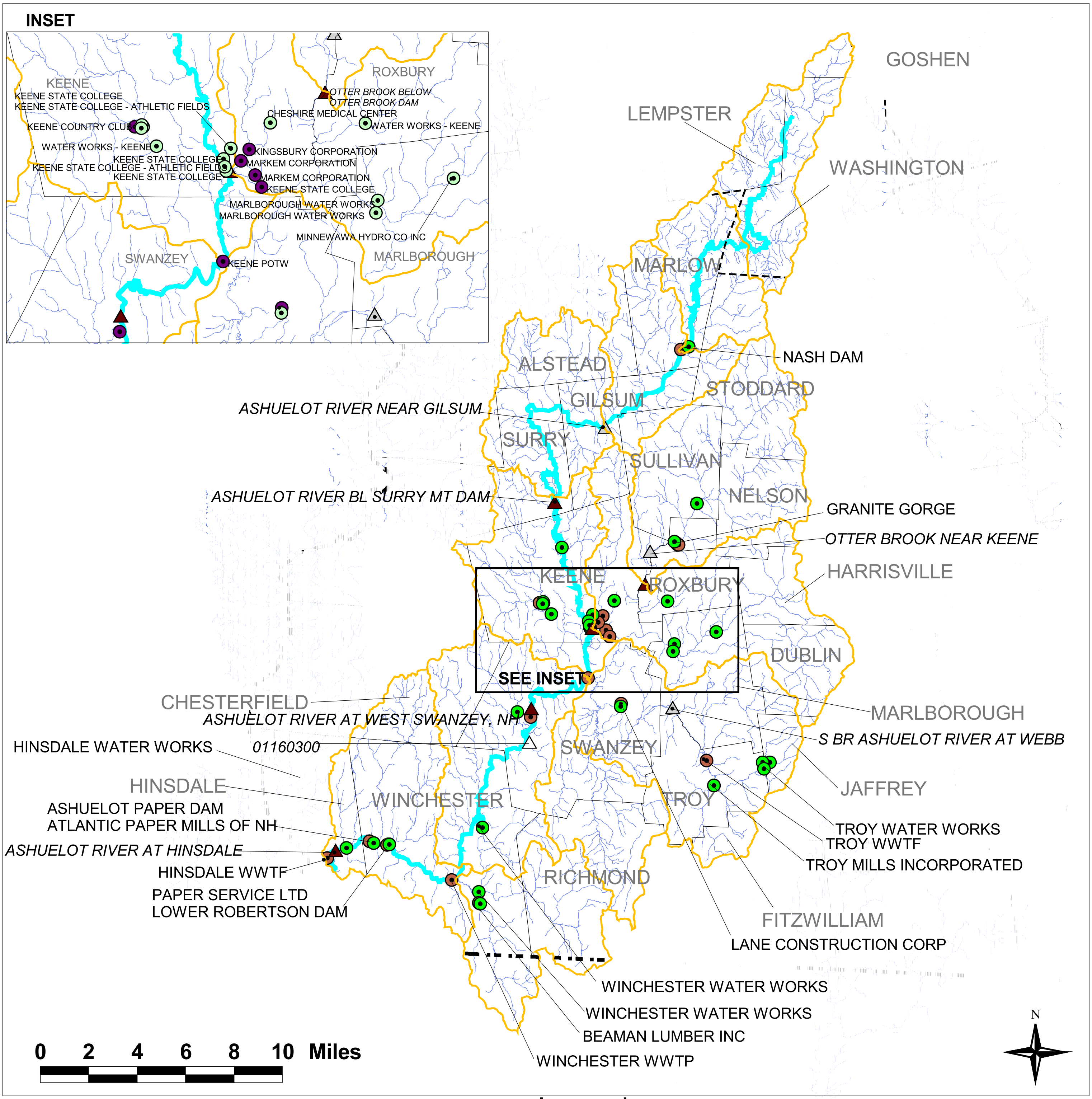
Water use was reported by 28 sources, 11 water transfers, and 12 measured returns in the Ashuelot Water Management Planning Area. The Water Management Planning Area includes registered water use by four hydroelectric facilities. Water use by hydroelectric facilities are not shown in the monthly graphs 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). Other water users include Keene State College for athletic fields and institutional uses; municipal water supplies in Keene, Marlborough, Troy, West Swanzey, Winchester and Hinsdale; golf course irrigation at Keene Country Club; snowmaking at Granite Gorge; and several industrial uses including among other types of uses paper making and lumber mill operations. Two water users are located between the intakes and outfalls of hydroelectric dams. The Hinsdale WWTF discharges water to the Ashuelot from the Hinsdale Water Works, which withdraws water from outside the Water Management Planning Area. Measured, registered returns were reported by three industrial facilities, four hydroelectric facilities, and five waste water treatment facilities.

The South Branch of the Ashuelot, where the Keene and Troy waste water treatment facilities are located, frequently contributes more water to the Designated River than there are recorded sources for. This may indicate that unregistered sources, or collection of storm water or groundwater infiltration are included in the facilities' discharges which artificially increases the perceived stream flow.

The Designated River begins at the dam at Butterfield Pond in Washington and flows 63.0 miles to the Connecticut River. The Ashuelot Water Management Planning Area covers 422 square miles. The watershed includes three stream flow gages used in this report. The gages are: in Surry (USGS 01158000 ASHUELOT RIVER BELOW SURRY MT DAM, NEAR KEENE, NH) measuring 101 square miles of the WMPA; in Swanzey (USGS 01160350 ASHUELOT RIVER AT WEST SWANZEY, NH) measuring 316.1 square miles; and in Hinsdale (USGS 01161000 ASHUELOT RIVER AT HINSDALE, NH) measuring 420 square miles. For this report the streamflow was transposed areally from these gages to all impact points on the Designated River. The 2005 assessment resulted in two months, August and September, not in compliance with the General Standard. The Ashuelot Designated River drains directly into the Connecticut Designated River. The results of this assessment are a component of that river's assessment.

Ashuelot Designated River	River Miles not in Compliance with General Standard (0 at the mouth)	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)
January	--	--	0.63%	--
February	--	--	1.1%	--
March	--	--	1.0%	--
April	--	--	0.31%	--
May	--	--	0.75%	--
June	--	--	1.4%	--
July	--	--	1.5%	2003, 2004
August	30.7- 0	30.7	5.9%	2004
September	25.7-17.2, 10.5-3.2, 2.4-1.3	16.8	4.7%	--
October	--	--	0.23%	--
November	--	--	0.23%	--
December	--	--	0.25%	--

Ashuelot Affected Water User Facilities: Source and Discharge Locations



Legend

Affected Water Users
- Affected Source
- Affected Discharge

Stream Gages
- Active
- Inactive
- Unknown

Designated Reach
Hydrology
State boundary
Town boundary
WMPA

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 January 2007.

Map produced January 12, 2007.

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2005 Ashuelot 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 Designated Reach	Butterfield Pond dam		7.0												
MARLOW POWER	NASH DAM	20246 20246-S01	46.3	31.20	29.22	15.90	27.26	28.51	15.50	14.27	4.13	11.10	11.48	19.04	33.47
MARLOW POWER	NASH DAM	20246 20246-D01	46.3	(31.20)	(29.22)	(15.90)	(27.26)	(28.51)	(15.50)	(14.27)	(4.13)	(11.10)	(11.48)	(19.04)	(33.47)
KEENE PUBLIC WATER DEPT	WATER WORKS	20338 20338-S03	108.5	1.24	1.28	1.19	1.37	1.07	1.07	1.42	1.50	1.57	1.85	1.33	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S01	115.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20338-S07	115.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20338-S05	115.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20338-S04	115.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KEENE STATE COLLEGE		20494 20494-S02	115.5												
KEENE STATE COLLEGE		20494 20338-S04	115.5												
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S03	115.6	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S02	115.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KEENE STATE COLLEGE		20494 20494-S03	115.6												
GRANITE GORGE LLC	GRANITE GORGE	20767 20767-S01	215.8	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14
GRANITE GORGE LLC	GRANITE GORGE	20767 20767-D04	215.8												
GRANITE GORGE LLC	GRANITE GORGE	20767 20767-D03	215.8												
GRANITE GORGE LLC	GRANITE GORGE	20767 20767-D02	215.8												
GRANITE GORGE LLC	GRANITE GORGE	20767 20767-D01	215.8												
KEENE STATE COLLEGE		20494 20338-S01	215.8	0.20	0.22	0.20	0.17	0.16	0.17	0.06	0.06	0.07	0.23	0.24	0.23
KEENE STATE COLLEGE		20494 20074-D01	215.8	(0.20)	(0.22)	(0.20)	(0.17)	(0.16)	(0.17)	(0.06)	(0.06)	(0.07)	(0.23)	(0.23)	(0.23)
SOUTHERN NH HYDRO	MINNEWAWA HYDRO CO INC	20462 20462-S01	215.8	38.22	24.18	13.83	38.25	38.08	26.30	27.58	3.19	2.56	36.94	44.92	33.47
SOUTHERN NH HYDRO	MINNEWAWA HYDRO CO INC	20462 20462-D01	215.8	(38.22)	(24.18)	(13.83)	(38.25)	(38.08)	(26.30)	(27.58)	(3.19)	(2.56)	(36.94)	(44.92)	(33.47)
MARKEM CORPORATION		20406 20406-D03	215.8												
MARKEM CORPORATION		20406 20406-D02	215.8												
MARKEM CORPORATION		20406 20338-S01	215.8	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.02
MARKEM CORPORATION		20406 20074-D01	215.8	(1.44)	(1.52)	(1.46)	(1.64)	(1.51)	(1.66)	(1.50)	(1.73)	(1.63)	(1.58)	(1.35)	(1.46)
KEENE PUBLIC WATER DEPT	WATER WORKS	20338 20338-S01	215.8	1.44	1.52	1.46	1.64	1.51	1.66	1.50	1.73	1.63	1.58	1.35	1.46
KINGSBURY CORPORATION		20201 20338-S01	215.8	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
KINGSBURY CORPORATION		20201 20201-D01	215.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KINGSBURY CORPORATION		20201 20074-D02	215.8	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.00)	(0.01)
MARLBOROUGH WATER WORKS	MARLBOROUGH WATER WORKS	20053 20053-S02	215.8	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARLBOROUGH WATER WORKS	MARLBOROUGH WATER WORKS	20053 20053-S01	215.8	0.13	0.12	0.12	0.13	0.12	0.14	0.12	0.13	0.13	0.12	0.06	0.07
CHESHIRE MEDICAL CENTER		20017 20338-S01	215.8	0.06	0.06	0.05	0.05	0.05	0.06	0.07	0.11	0.08	0.11	0.08	0.07
The Branch	The Branch		215.8												
KEENE COUNTRY CLUB	KEENE COUNTRY CLUB	20705 20705-S03	234.6	0.00	0.00	0.00	0.13	0.21	0.36	0.27	0.35	0.10	0.00	0.00	0.00
KEENE COUNTRY CLUB	KEENE COUNTRY CLUB	20705 20705-S02	234.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KEENE COUNTRY CLUB	KEENE COUNTRY CLUB	20705 20705-S01	234.6	0.00	0.00	0.00	0.08	0.11	0.32	0.20	0.24	0.08	0.00	0.00	0.00
KEENE COUNTRY CLUB	KEENE COUNTRY CLUB	20705 20705-D01	234.6												
KEENE PUBLIC WATER DEPT	WATER WORKS	20338 20338-S02	234.6	1.02	1.06	1.11	1.12	1.51	1.66	1.08	1.15	1.12	0.59	0.93	0.00
Ash Swamp Brook	Ash Swamp Brook		234.6												
TROY WATER WORKS	TROY WATER WORKS	20451 20451-S03	288.6	0.06	0.04	0.05	0.00	0.00	0.00	0.08	0.03	0.00	0.03	0.05	0.09
TROY WATER WORKS	TROY WATER WORKS	20451 20451-S02	288.6	0.00	0.00	0.00	0.05	0.06	0.09	0.00	0.03	0.05	0.02	0.00	0.00
TROY WATER WORKS	TROY WATER WORKS	20451 20451-S01	288.6	0.08	0.09	0.08	0.09	0.07	0.06	0.06	0.07	0.07	0.07	0.07	0.06
TROY WWTF	WASTE WATER TREAT PLANT	20449 20449-D01	288.6	(0.12)	(0.15)	(0.15)	(0.27)	(0.14)	(0.11)	(0.13)	(0.14)	(0.15)	(0.19)	(0.35)	(0.02)
TROY MILLS INCORPORATED		20111 20111-S01	288.6												
TROY MILLS INCORPORATED		20111 20111-D03	288.6												
TROY MILLS INCORPORATED		20111 20111-D01	288.6												
KEENE WWTF	KEENE POTW	20074 20074-D01	288.6	(5.61)	(5.02)	(5.41)	(8.50)	(5.82)	(4.63)	(4.56)	(3.74)	(3.88)	(10.21)	(8.72)	(6.46)
South Branch Ashuelot	South Branch Ashuelot		288.6												

SWANZEY WWTF	WEST SWANZEY WWTP	20120 20120-D01	292.6	(0.14)	(0.13)	(0.14)	(0.14)	(0.13)	(0.12)	(0.12)	(0.12)	(0.11)	(0.20)	(0.16)	(0.16)
WEST SWANZEY WATER COMPANY INC		20785 20785-S01	325.4	0.04	0.04	0.05	0.04	0.05	0.06	0.05	0.07	0.07	0.06	0.08	0.07
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S02	380.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S01	380.0	0.23	0.25	0.20	0.19	0.23	0.30	0.29	0.30	0.31	0.28	0.20	0.22
CRESTWOODS INC	CRESTWOODS INC	20537 20537-S01	385.3	0.00	0.00	0.00	0.00	0.01	0.12	0.12	0.12	0.05	0.01	0.00	0.00
CRESTWOODS INC	CRESTWOODS INC	20537 20537-D01	385.3												
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S03	385.3	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.37	0.42	0.42	0.42
Mirey Brook	Mirey Brook		385.3												
WINCHESTER WWTF	WASTE WATER TREAT PLANT	20314 20314-D01	385.3	(0.37)	(0.36)	(0.34)	(0.49)	(0.33)	(0.28)	(0.36)	(0.24)	(0.26)	(0.63)	(0.50)	(0.45)
ALGONQUIN POWER SYST INC	LOWER ROBERTSON DAM	20590 20590-S01	408.4	317.46	502.94	477.61	779.73	580.71	533.56	583.96	174.42	97.66	199.01	17.47	262.78
PAPER SERVICE LTD		20137 20137-S01	408.4	0.12	0.07	0.08	0.11	0.07	0.04	0.00	0.01	0.03	0.00	0.00	0.00
PAPER SERVICE LTD		20137 20137-D01	408.4	(0.12)	(0.07)	(0.08)	(0.11)	(0.07)	(0.04)	(0.00)	(0.01)	(0.03)	0.00	0.00	0.00
ALGONQUIN POWER SYST INC	LOWER ROBERTSON DAM	20590 20590-D01	408.5	(317.46)	(502.94)	(477.61)	(779.73)	(580.71)	(533.56)	(583.96)	(174.42)	(97.66)	(199.01)	(17.47)	(262.78)
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-S01	412.3	0.03	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALGONQUIN POWER SYST INC	ASHUELOT PAPER DAM	20589 20589-S01	412.3	318.31	466.14	239.43	621.21	566.14	550.85	534.68	157.68	88.50	37.87	0.00	0.00
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-D01	412.6	(0.03)	(0.05)	(0.02)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALGONQUIN POWER SYST INC	ASHUELOT PAPER DAM	20589 20589-D01	412.6	(318.31)	(466.14)	(239.43)	(621.21)	(566.14)	(550.85)	(534.68)	(157.68)	(88.50)	(37.87)	0.00	0.00
HINSDALE WATER WORKS	HINSDALE WATER WORKS	20050 20050-S02	415.0	0.09	0.10	0.11	0.11	0.12	0.08	0.17	0.17	0.15	0.14	0.15	0.14
HINSDALE WWTF	WASTE WATER TREAT PLANT	20089 20089-D01	421.2	(0.42)	(0.42)	(0.46)	(0.68)	(0.48)	(0.37)	(0.40)	(0.24)	(0.19)	(0.70)	(0.66)	(0.60)
Start of Designated Reach	At confluence with Connecticut River		421.9												

2005 Ashuelot 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 Designated Reach	Butterfield Pond dam		7.0												
KEENE PUBLIC WATER DEPT	WATER WORKS	20338 20338-S03	108.5	1.24	1.28	1.19	1.37	1.07	1.07	1.42	1.50	1.57	1.85	1.33	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S01	115.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S03	115.6	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S02	115.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
The Branch	The Branch		215.8	1.64	1.68	1.58	1.76	1.64	1.79	1.62	1.86	1.76	1.70	1.43	1.67
Ash Swamp Brook	Ash Swamp Brook		234.6	1.02	1.06	1.11	1.34	1.83	2.34	1.55	1.74	1.31	0.59	0.93	0.00
South Branch Ashuelot	South Branch Ashuelot		288.6	(5.59)	(5.04)	(5.43)	(8.63)	(5.82)	(4.59)	(4.55)	(3.76)	(3.91)	(10.28)	(8.95)	(6.32)
SWANZEY WWTF	WEST SWANZEY WWTP	20120 20120-D01	292.6	(0.14)	(0.13)	(0.14)	(0.14)	(0.13)	(0.12)	(0.12)	(0.12)	(0.11)	(0.20)	(0.16)	(0.16)
WEST SWANZEY WATER COMPANY INC		20785 20785-S01	325.4	0.04	0.04	0.05	0.04	0.05	0.06	0.05	0.07	0.07	0.06	0.08	0.07
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S02	380.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S01	380.0	0.23	0.25	0.20	0.19	0.23	0.30	0.29	0.30	0.31	0.28	0.20	0.22
Mirey Brook	Mirey Brook		385.3	0.42	0.42	0.42	0.42	0.43	0.54	0.54	0.54	0.42	0.43	0.42	0.42
WINCHESTER WWTF	WASTE WATER TREAT PLANT	20314 20314-D01	385.3	(0.37)	(0.36)	(0.34)	(0.49)	(0.33)	(0.28)	(0.36)	(0.24)	(0.26)	(0.63)	(0.50)	(0.45)
PAPER SERVICE LTD		20137 20137-S01	408.4	0.12	0.07	0.08	0.11	0.07	0.04	0.00	0.01	0.03	0.00	0.00	0.00
PAPER SERVICE LTD		20137 20137-D01	408.4	(0.12)	(0.07)	(0.08)	(0.11)	(0.07)	(0.04)	(0.00)	(0.01)	(0.03)	0.00	0.00	0.00
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-S01	412.3	0.03	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-D01	412.6	(0.03)	(0.05)	(0.02)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HINSDALE WATER WORKS	HINSDALE WATER WORKS	20050 20050-S02	415.0	0.09	0.10	0.11	0.11	0.12	0.08	0.17	0.17	0.15	0.14	0.15	0.14
HINSDALE WWTF	WASTE WATER TREAT PLANT	20089 20089-D01	421.2	(0.42)	(0.42)	(0.46)	(0.68)	(0.48)	(0.37)	(0.40)	(0.24)	(0.19)	(0.70)	(0.66)	(0.60)
Start of Designated Reach	At confluence with Connecticut River		421.9												

2005 Ashuelot 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_
End of Designated Reach	Butterfield Pond dam		7.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KEENE PUBLIC WATER DEPT	WATER WORKS	20338 20338-S03	108.46	1.24	1.28	1.19	1.37	1.07	1.07	1.42	1.50	1.57	1.85	1.33	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S01	115.52	1.24	1.28	1.19	1.37	1.07	1.07	1.42	1.50	1.57	1.85	1.33	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S03	115.58	1.24	1.28	1.20	1.38	1.08	1.08	1.43	1.51	1.58	1.86	1.33	0.00
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S02	115.60	1.24	1.28	1.20	1.38	1.08	1.08	1.43	1.51	1.58	1.86	1.33	0.00
The Branch	The Branch		215.8	2.88	2.97	2.78	3.14	2.72	2.87	3.05	3.36	3.34	3.56	2.76	1.67
Ash Swamp Brook	Ash Swamp Brook		234.6	3.90	4.03	3.89	4.48	4.55	5.21	4.60	5.10	4.64	4.15	3.69	1.67
South Branch Ashuelot	South Branch Ashuelot		288.6	(1.70)	(1.02)	(1.55)	(4.16)	(1.28)	0.62	0.05	1.34	0.73	(6.14)	(5.26)	(4.66)
SWANZEY WWTF	WEST SWANZEY WWTP	20120 20120-D01	292.56	(1.83)	(1.15)	(1.69)	(4.29)	(1.40)	0.50	(0.07)	1.23	0.62	(6.33)	(5.42)	(4.81)
WEST SWANZEY WATER COMPANY INC		20785 20785-S01	325.37	(1.79)	(1.10)	(1.64)	(4.25)	(1.35)	0.55	(0.02)	1.30	0.69	(6.27)	(5.34)	(4.74)
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S02	379.98	(1.79)	(1.10)	(1.64)	(4.25)	(1.35)	0.55	(0.02)	1.30	0.72	(6.27)	(5.34)	(4.74)
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S01	379.98	(1.56)	(0.85)	(1.43)	(4.06)	(1.13)	0.85	0.27	1.60	1.02	(5.99)	(5.14)	(4.52)
Mirey Brook	Mirey Brook		385.3	(1.13)	(0.43)	(1.01)	(3.64)	(0.70)	1.39	0.81	2.14	1.45	(5.56)	(4.72)	(4.10)
WINCHESTER WWTF	WASTE WATER TREAT PLANT	20314 20314-D01	385.30	(1.51)	(0.78)	(1.35)	(4.12)	(1.03)	1.12	0.45	1.90	1.19	(6.19)	(5.22)	(4.55)
PAPER SERVICE LTD		20137 20137-S01	408.36	(1.39)	(0.71)	(1.26)	(4.01)	(0.96)	1.16	0.46	1.91	1.22	(6.19)	(5.22)	(4.55)
PAPER SERVICE LTD		20137 20137-D01	408.41	(1.51)	(0.78)	(1.35)	(4.12)	(1.03)	1.12	0.45	1.90	1.19	(6.19)	(5.22)	(4.55)
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-S01	412.26	(1.48)	(0.73)	(1.33)	(4.12)	(1.03)	1.12	0.45	1.90	1.19	(6.19)	(5.22)	(4.55)
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-D01	412.58	(1.51)	(0.78)	(1.35)	(4.12)	(1.03)	1.12	0.45	1.90	1.19	(6.19)	(5.22)	(4.55)
HINSDALE WATER WORKS	HINSDALE WATER WORKS	20050 20050-S02	415.05	(1.41)	(0.68)	(1.24)	(4.01)	(0.91)	1.20	0.62	2.07	1.34	(6.05)	(5.07)	(4.41)
HINSDALE WWTF	WASTE WATER TREAT PLANT	20089 20089-D01	421.23	(1.84)	(1.09)	(1.70)	(4.69)	(1.39)	0.84	0.22	1.83	1.15	(6.75)	(5.73)	(5.01)
Start of Designated Reach	At confluence with Connecticut River		421.9	(1.84)	(1.09)	(1.70)	(4.69)	(1.39)	0.84	0.22	1.83	1.15	(6.75)	(5.73)	(5.01)

2005 Ashuelot Estimated Monthly Stream Flow at Each Impact Point in CFS

Gage		DA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
USGS 01158000 ASHUELOT RIVER BELOW SURRY MT DAM, NEAR KEENE, NH	Calculated monthly mean streamflow in CFSM	101.0	2.75	1.53	1.60	6.79	2.89	1.73	1.03	0.28	0.54	7.36	7.76	2.72
USGS 01160350 ASHUELOT RIVER AT WEST SWANZEY, NH	Calculated monthly mean streamflow in CFSM	316.1	2.50	1.57	1.72	5.75	2.39	1.53	1.42	0.42	0.35	7.68	6.08	2.94
USGS 01161000 ASHUELOT RIVER AT HINSDALE, NH	Calculated monthly mean streamflow in CFSM	420.0	2.57	1.63	1.97	5.84	2.50	1.61	1.91	0.45	0.35	7.35	5.17	3.32

WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
End of Designated Reach	Butterfield Pond dam		7.0	19.3	10.7	11.2	47.6	20.3	12.1	7.2	2.0	3.8	51.6	54.4	19.1
KEENE PUBLIC WATER DEPT	WATER WORKS	20338 20338-S03	108.46	297	166	173	732	312	187	113	31	57	800	835	296
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S01	115.52	316	177	185	776	330	198	122	34	60	853	883	316
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S03	115.58	316	177	185	776	330	198	122	34	60	854	884	316
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S02	115.60	316	177	185	776	330	198	122	34	60	854	884	316
The Branch	The Branch		215.8	565	335	358	1345	566	350	267	76	95	1626	1481	613
Ash Swamp Brook	Ash Swamp Brook		234.6	609	364	392	1441	605	377	298	86	99	1773	1575	670
South Branch Ashuelot	South Branch Ashuelot		288.6	732	451	491	1698	708	449	395	115	109	2204	1816	841
SWANZEY WWTF	WEST SWANZEY WWTP	20120 20120-D01	292.56	741	457	499	1716	715	454	403	118	109	2236	1832	853
WEST SWANZEY WATER COMPANY INC		20785 20785-S01	325.37	817	512	566	1874	780	500	476	137	115	2489	1951	968
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S02	379.98	968	611	711	2207	933	601	654	167	132	2841	2097	1207
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S01	379.98	968	611	711	2207	933	601	654	167	132	2841	2097	1207
Mirey Brook	Mirey Brook		385.3	983	621	726	2239	948	611	672	170	134	2875	2108	1232
WINCHESTER WWTF	WASTE WATER TREAT PLANT	20314 20314-D01	385.30	983	621	726	2240	948	611	673	170	134	2875	2108	1232

PAPER SERVICE LTD		20137 20137-S01	408.36	1048	664	792	2382	1015	655	757	184	141	3017	2152	1340
PAPER SERVICE LTD		20137 20137-D01	408.41	1048	664	792	2382	1015	655	757	184	141	3018	2152	1340
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-S01	412.26	1059	672	804	2406	1026	663	772	186	143	3041	2159	1359
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-D01	412.58	1060	672	805	2408	1027	664	773	186	143	3043	2159	1360
HINSDALE WATER WORKS	HINSDALE WATER WORKS	20050 20050-S02	415.05	1067	677	812	2423	1034	668	783	188	144	3058	2163	1372
HINSDALE WWTF	WASTE WATER TREAT PLANT	20089 20089-D01	421.23	1084	688	829	2461	1052	680	804	191	146	3097	2177	1401
Start of Designated Reach	At confluence with Connecticut River		421.9	1086	689	830	2465	1054	681	806	191	146	3102	2181	1403

2005 Ashuelot Estimated Monthly General Standard at Each Impact Point in CFSM

		7q10 cfsm	7Q10 cfs	
USGS 01158000 ASHUELOT RIVER BELOW SURRY MT DAM, NEAR KEENE, NH	101.0	0.0277	2.8	
USGS 01160350 ASHUELOT RIVER AT WEST SWANZEY, NH	316.1	0.0664	21	* 7Q10 Determined by averaging the Hinsdale and Surry Mtn. gages.
USGS 01161000 ASHUELOT RIVER AT HINSDALE, NH	420.0	0.1071	45	

WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC_
End of Designated Reach	Butterfield Pond dam		7.0	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00139	0.02	0.16	0.16	0.04
KEENE PUBLIC WATER DEPT	WATER WORKS	20338 20338-S03	108.46	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00145	0.02	0.16	0.16	0.04
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S01	115.52	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00152	0.02	0.16	0.16	0.04
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S03	115.58	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00152	0.02	0.16	0.16	0.04
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S02	115.60	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00152	0.02	0.16	0.16	0.04
The Branch	The Branch		215.8	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00242	0.00242	0.16	0.16	0.04
Ash Swamp Brook	Ash Swamp Brook		234.6	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00259	0.00259	0.16	0.16	0.04
South Branch Ashuelot	South Branch Ashuelot		288.6	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00307	0.00307	0.16	0.16	0.04
SWANZEY WWTF	WEST SWANZEY WWTP	20120 20120-D01	292.56	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00311	0.00311	0.16	0.16	0.04
WEST SWANZEY WATER COMPANY INC		20785 20785-S01	325.37	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00350	0.00350	0.16	0.16	0.04
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S02	379.98	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00457	0.00457	0.16	0.16	0.04
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S01	379.98	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00457	0.00457	0.16	0.16	0.04
Mirey Brook	Mirey Brook		385.3	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00468	0.00468	0.16	0.16	0.04
WINCHESTER WWTF	WASTE WATER TREAT PLANT	20314 20314-D01	385.30	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00468	0.00468	0.16	0.16	0.04
PAPER SERVICE LTD		20137 20137-S01	408.36	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00513	0.00513	0.16	0.16	0.04
PAPER SERVICE LTD		20137 20137-D01	408.41	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00513	0.00513	0.16	0.16	0.04
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-S01	412.26	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00521	0.00521	0.16	0.16	0.04
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-D01	412.58	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00521	0.00521	0.16	0.16	0.04
HINSDALE WATER WORKS	HINSDALE WATER WORKS	20050 20050-S02	415.05	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00526	0.00526	0.16	0.16	0.04
HINSDALE WWTF	WASTE WATER TREAT PLANT	20089 20089-D01	421.23	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00536	0.00536	0.16	0.16	0.04
Start of Designated Reach	At confluence with Connecticut River		421.9	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.00536	0.00536	0.16	0.16	0.04

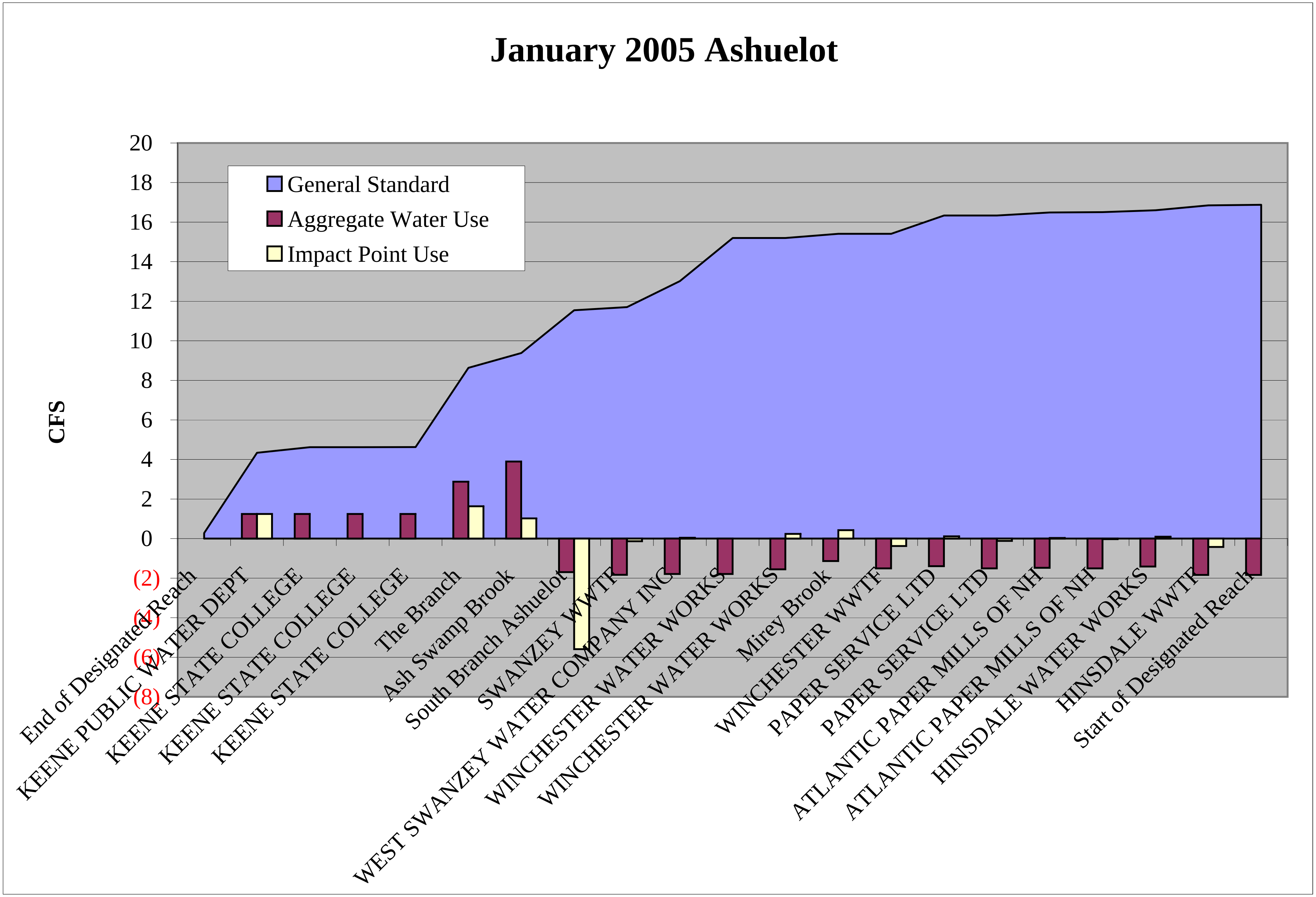
2005 Ashuelot Estimated Monthly General Standard at Each Impact Point in CFS

WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC_
End of Designated Reach	Butterfield Pond dam		7.0	0.280	0.280	0.280	1.12	0.280	0.280	0.280	0.00972	0.140	1.12	1.12	0.280
KEENE PUBLIC WATER DEPT	WATER WORKS	20338 20338-S03	108.46	4.34	4.34	4.34	17.35	4.34	4.34	4.34	0.16	2.17	17.4	17.4	4.34
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S01	115.52	4.62	4.62	4.62	18.48	4.62	4.62	4.62	0.18	2.31	18.5	18.5	4.62
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S03	115.58	4.62	4.62	4.62	18.49	4.62	4.62	4.62	0.18	2.31	18.5	18.5	4.62
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S02	115.60	4.62	4.62	4.62	18.50	4.62	4.62	4.62	0.18	2.31	18.5	18.5	4.62

The Branch	The Branch		215.8	8.63	8.63	8.63	34.53	8.63	8.63	8.63	0.52	0.52	34.5	34.5	8.63
Ash Swamp Brook	Ash Swamp Brook		234.6	9.38	9.38	9.38	37.53	9.38	9.38	9.38	0.61	0.61	37.5	37.5	9.38
South Branch Ashuelot	South Branch Ashuelot		288.6	11.5	11.5	11.5	46.2	11.5	11.5	11.5	0.89	0.89	46.2	46.2	11.5
SWANZEY WWTF	WEST SWANZEY WWTP	20120 20120-D01	292.56	11.7	11.7	11.7	46.8	11.7	11.7	11.7	0.91	0.91	46.8	46.8	11.7
WEST SWANZEY WATER COMPANY INC		20785 20785-S01	325.37	13.0	13.0	13.0	52.1	13.0	13.0	13.0	1.14	1.14	52.1	52.1	13.0
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S02	379.98	15.2	15.2	15.2	60.8	15.2	15.2	15.2	1.74	1.74	60.8	60.8	15.2
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S01	379.98	15.2	15.2	15.2	60.8	15.2	15.2	15.2	1.74	1.74	60.8	60.8	15.2
Mirey Brook	Mirey Brook		385.3	15.4	15.4	15.4	61.6	15.4	15.4	15.4	1.80	1.80	61.6	61.6	15.4
WINCHESTER WWTF	WASTE WATER TREAT PLANT	20314 20314-D01	385.30	15.4	15.4	15.4	61.6	15.4	15.4	15.4	1.80	1.80	61.6	61.6	15.4
PAPER SERVICE LTD		20137 20137-S01	408.36	16.3	16.3	16.3	65.3	16.3	16.3	16.3	2.09	2.09	65.3	65.3	16.3
PAPER SERVICE LTD		20137 20137-D01	408.41	16.3	16.3	16.3	65.3	16.3	16.3	16.3	2.10	2.10	65.3	65.3	16.3
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-S01	412.26	16.5	16.5	16.5	66.0	16.5	16.5	16.5	2.15	2.15	66.0	66.0	16.5
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-D01	412.58	16.5	16.5	16.5	66.0	16.5	16.5	16.5	2.15	2.15	66.0	66.0	16.5
HINSDALE WATER WORKS	HINSDALE WATER WORKS	20050 20050-S02	415.05	16.6	16.6	16.6	66.4	16.6	16.6	16.6	2.18	2.18	66.4	66.4	16.6
HINSDALE WWTF	WASTE WATER TREAT PLANT	20089 20089-D01	421.23	16.8	16.8	16.8	67.4	16.8	16.8	16.8	2.26	2.26	67.4	67.4	16.8
Start of Designated Reach	At confluence with Connecticut River		421.9	16.9	16.9	16.9	67.5	16.9	16.9	16.9	2.26	2.26	67.5	67.5	16.9

2005 Ashuelot Estimated Monthly Margin of the Aggregate Water Use Below the General Standard 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 Designated Reach	Butterfield Pond dam		7.0	0.28	0.28	0.28	1.12	0.28	0.28	0.28	0.01	0.14	1.12	1.12	0.28
KEENE PUBLIC WATER DEPT	WATER WORKS	20338 20338-S03	108.46	3.10	3.06	3.15	15.98	3.27	3.27	2.92	(1.34)	0.60	15.50	16.02	4.34
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S01	115.52	3.38	3.34	3.43	17.11	3.55	3.55	3.20	(1.32)	0.74	16.63	17.15	4.62
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S03	115.58	3.38	3.34	3.43	17.11	3.54	3.54	3.19	(1.33)	0.73	16.63	17.16	4.62
KEENE STATE COLLEGE	ATHLETIC FIELDS	20757 20757-S02	115.60	3.38	3.34	3.43	17.12	3.54	3.54	3.19	(1.33)	0.73	16.64	17.17	4.62
The Branch	The Branch		215.8	5.76	5.67	5.85	31.39	5.92	5.76	5.58	(2.84)	(2.82)	30.98	31.77	6.97
Ash Swamp Brook	Ash Swamp Brook		234.6	5.49	5.36	5.50	33.06	4.84	4.17	4.78	(4.49)	(4.04)	33.39	33.84	7.72
South Branch Ashuelot	South Branch Ashuelot		288.6	11.54	11.54	11.54	46.17	11.54	10.92	11.49	(0.46)	0.15	46.17	46.17	11.54
SWANZEY WWTF	WEST SWANZEY WWTP	20120 20120-D01	292.56	11.70	11.70	11.70	46.81	11.70	11.21	11.70	(0.32)	0.29	46.81	46.81	11.70
WEST SWANZEY WATER COMPANY INC		20785 20785-S01	325.37	13.01	13.01	13.01	52.06	13.01	12.46	13.01	(0.16)	0.45	52.06	52.06	13.01
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S02	379.98	15.20	15.20	15.20	60.80	15.20	14.65	15.20	0.44	1.02	60.80	60.80	15.20
WINCHESTER WATER WORKS	WINCHESTER WATER WORKS	20434 20434-S01	379.98	15.20	15.20	15.20	60.80	15.20	14.35	14.93	0.14	0.71	60.80	60.80	15.20
Mirey Brook	Mirey Brook		385.3	15.41	15.41	15.41	61.65	15.41	14.02	14.60	(0.34)	0.36	61.65	61.65	15.41
WINCHESTER WWTF	WASTE WATER TREAT PLANT	20314 20314-D01	385.30	15.41	15.41	15.41	61.65	15.41	14.29	14.96	(0.10)	0.61	61.65	61.65	15.41
PAPER SERVICE LTD		20137 20137-S01	408.36	16.33	16.33	16.33	65.34	16.33	15.18	15.88	0.18	0.88	65.34	65.34	16.33
PAPER SERVICE LTD		20137 20137-D01	408.41	16.34	16.34	16.34	65.35	16.34	15.22	15.88	0.20	0.91	65.35	65.35	16.34
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-S01	412.26	16.49	16.49	16.49	65.96	16.49	15.37	16.04	0.25	0.96	65.96	65.96	16.49
ATLANTIC PAPER MILLS OF NH	ATLANTIC PAPER MILLS OF NH	20627 20627-D01	412.58	16.50	16.50	16.50	66.01	16.50	15.39	16.05	0.25	0.96	66.01	66.01	16.50
HINSDALE WATER WORKS	HINSDALE WATER WORKS	20050 20050-S02	415.05	16.60	16.60	16.60	66.41	16.60	15.40	15.98	0.12	0.84	66.41	66.41	16.60
HINSDALE WWTF	WASTE WATER TREAT PLANT	20089 20089-D01	421.23	16.85	16.85	16.85	67.40	16.85	16.01	16.63	0.43	1.10	67.40	67.40	16.85
Start of Designated Reach	At confluence with Connecticut River		421.9	16.88	16.88	16.88	67.51	16.88	16.04	16.66	0.43	1.11	67.51	67.51	16.88



January 2005 Ashuelot
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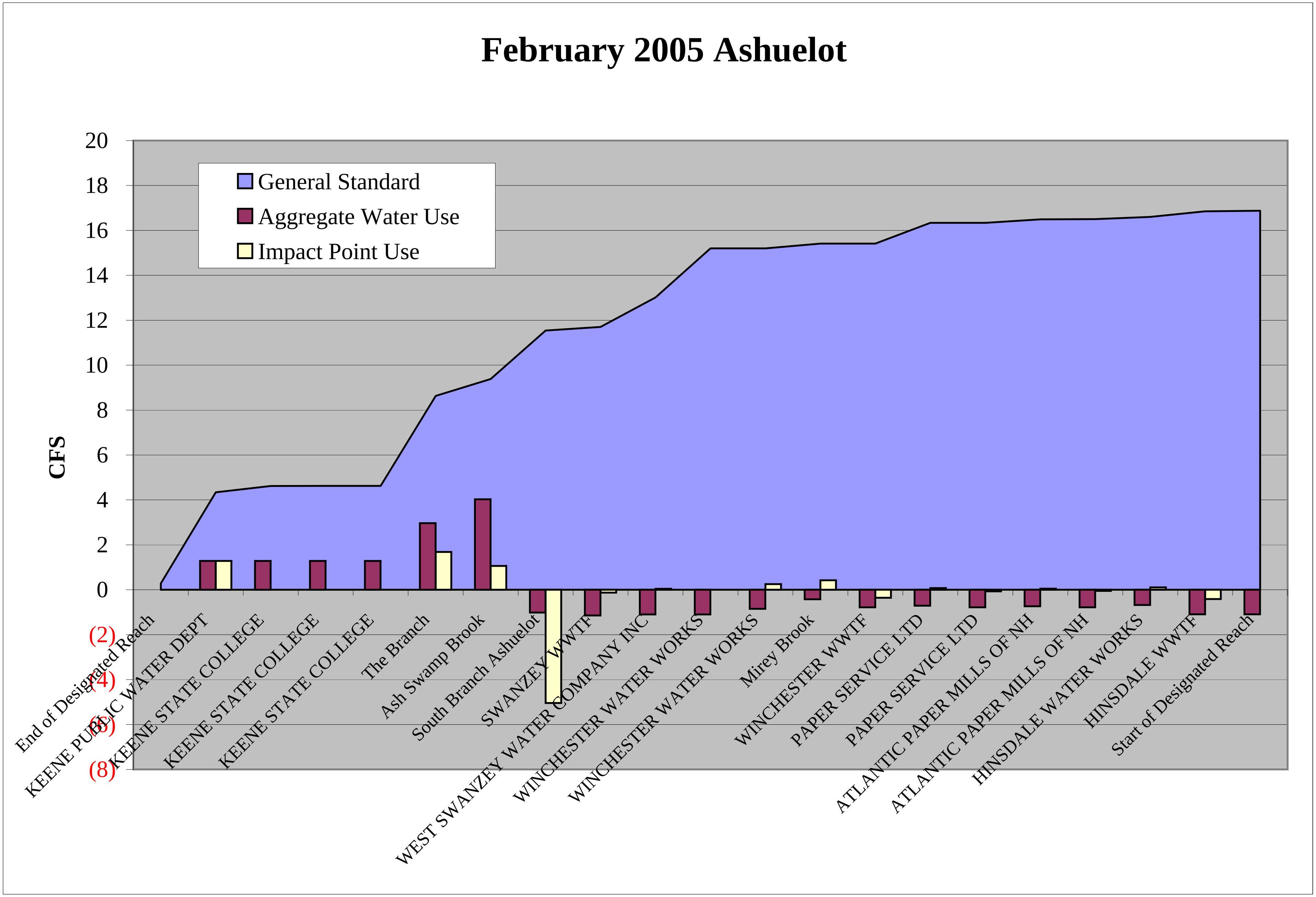
General Standard
Aggregate Water Use
Impact Point Use
End of Designated Reach
KEENE PUBLIC WATER DEPT
KEENE STATE COLLEGE
KEENE STATE COLLEGE
KEENE STATE COLLEGE
The Branch
Ash Swamp Brook
South Branch Ashuelot
SWANZEY WWTF
WEST SWANZEY WATER COMPANY INC
WINCHESTER WATER WORKS
WINCHESTER WATER WORKS
Mirey Brook
WINCHESTER WWTF
PAPER SERVICE LTD
PAPER SERVICE LTD
ATLANTIC PAPER MILLS OF NH
ATLANTIC PAPER MILLS OF NH
HINSDALE WATER WORKS
HINSDALE WWTF
Start of Designated Reach


February 2005 Ashuelot
General Standard
Aggregate Water Use
Impact Point Use
CFS
20
18
16
14
12
10
8
6
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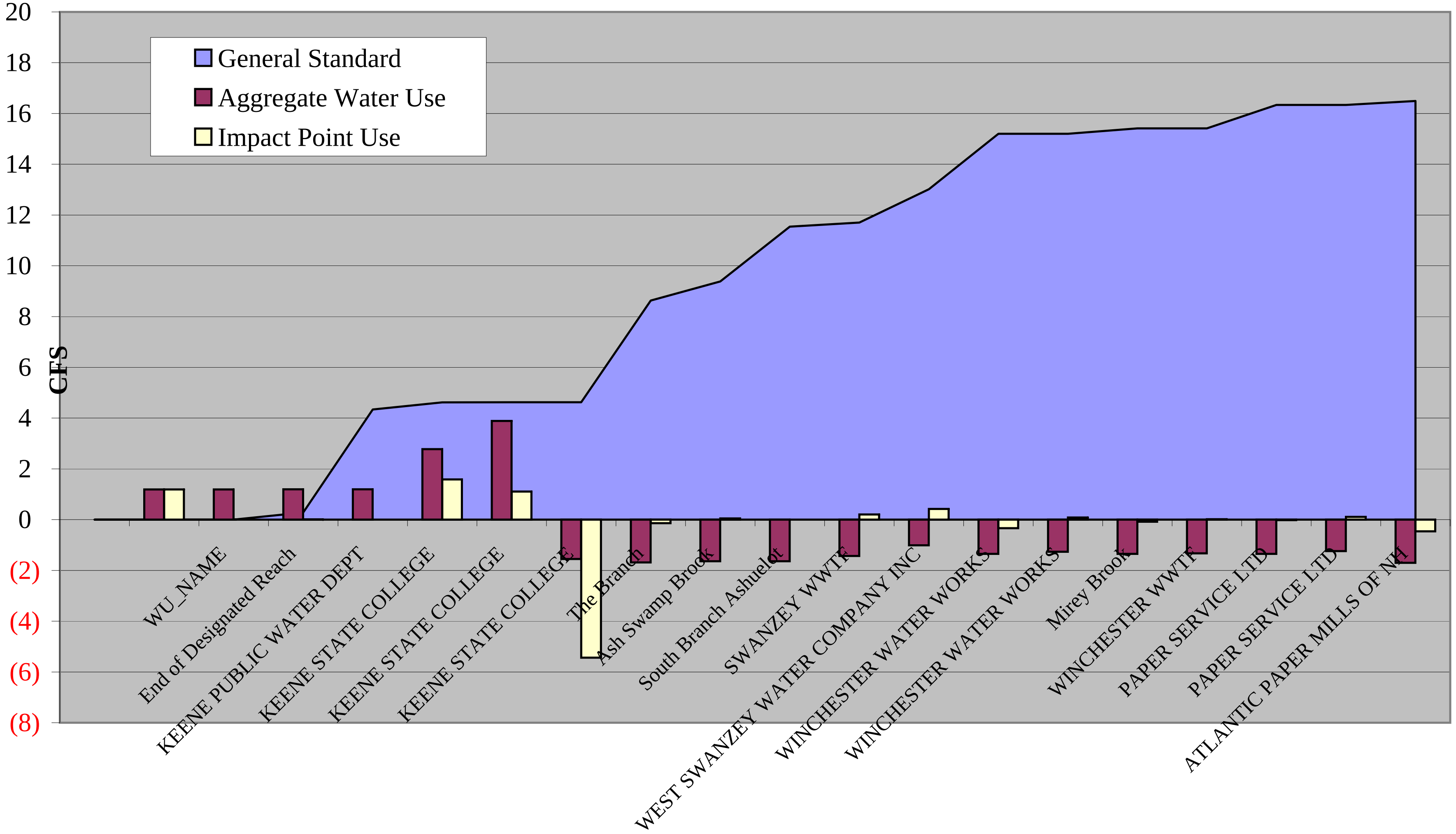
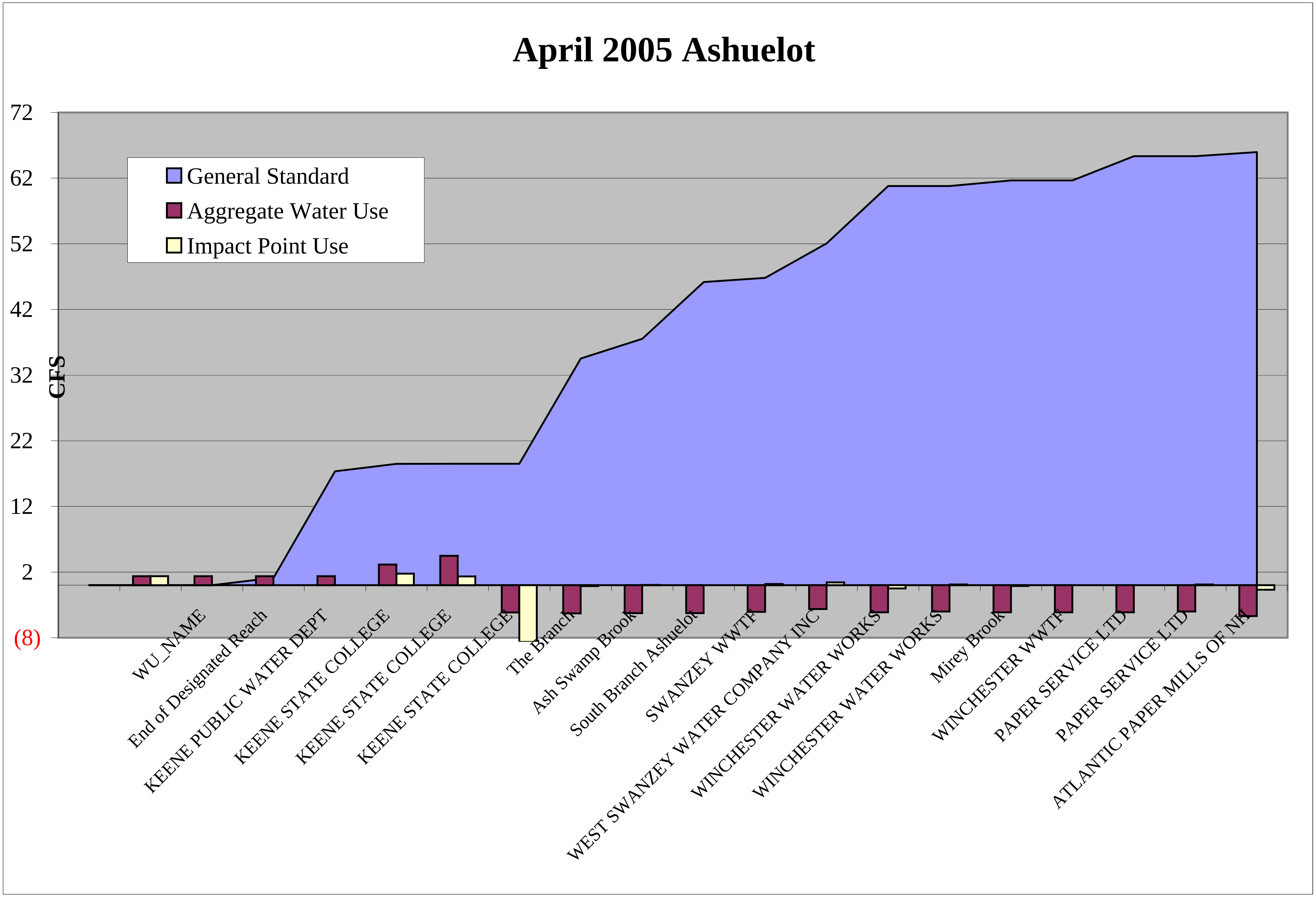
2
0
(2)
(4)
(6)
(8)
End of Designated Reach
KEENE PUBLIC WATER DEPT
KEENE STATE COLLEGE
KEENE STATE COLLEGE
KEENE STATE COLLEGE
The Branch
Ash Swamp Brook
South Branch Ashuelot
SWANZEY WWTF
WEST SWANZEY WATER COMPANY INC
WINCHESTER WATER WORKS
WINCHESTER WATER WORKS
Mirey Brook
WINCHESTER WWTF
PAPER SERVICE LTD
PAPER SERVICE LTD
ATLANTIC PAPER MILLS OF NH
ATLANTIC PAPER MILLS OF NH
HINSDALE WATER WORKS
HINSDALE WWTF
Start of Designated Reach

March 2005 Ashuelot





April 2005 Ashuelot
CFS
72
62
52
42
32
22
12
2
(8)
General Standard
Aggregate Water Use
Impact Point Use
WU_NAME
End of Designated Reach
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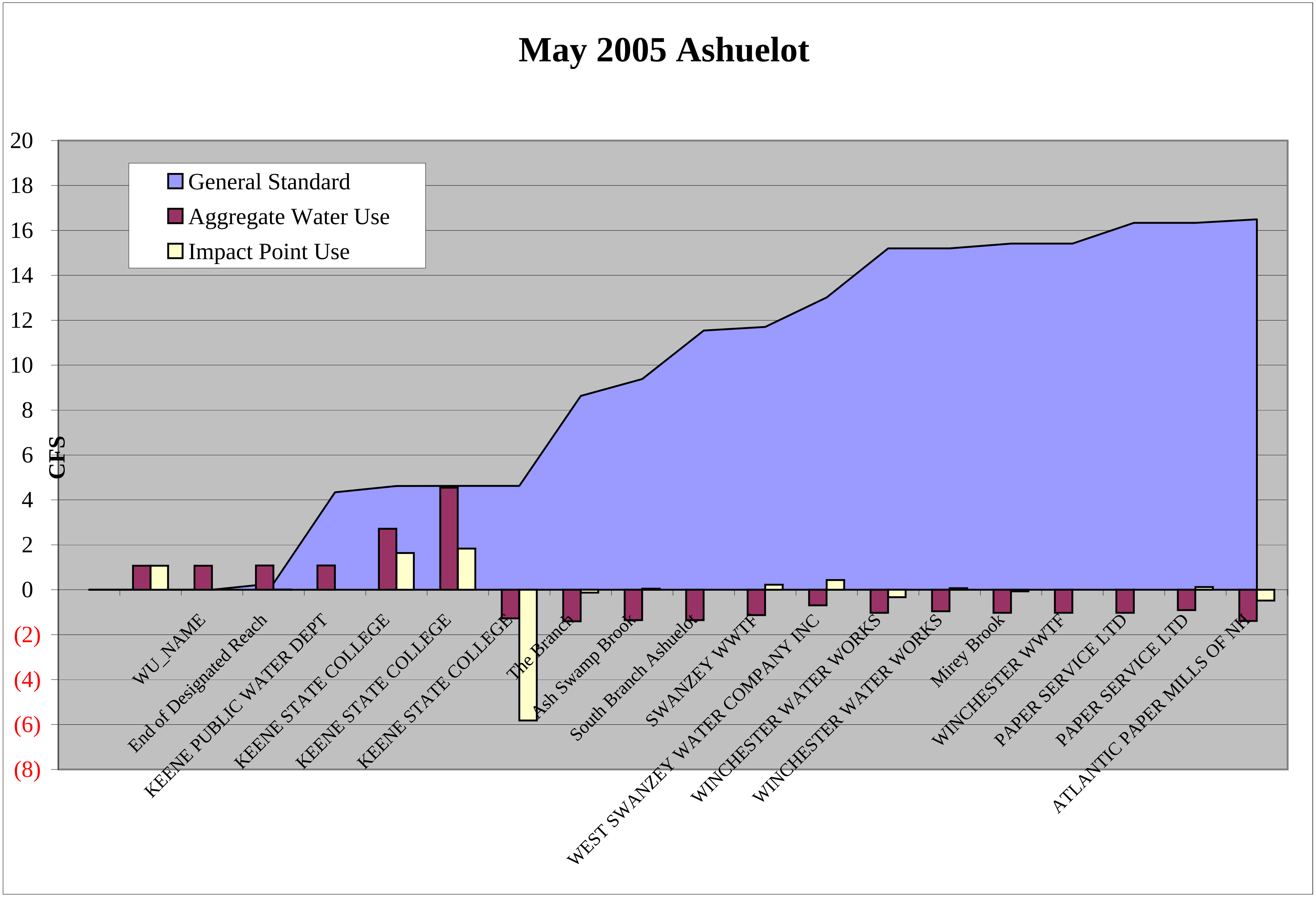
May 2005 Ashuelot
General Standard
Aggregate Water Use
Impact Point Use
CFS
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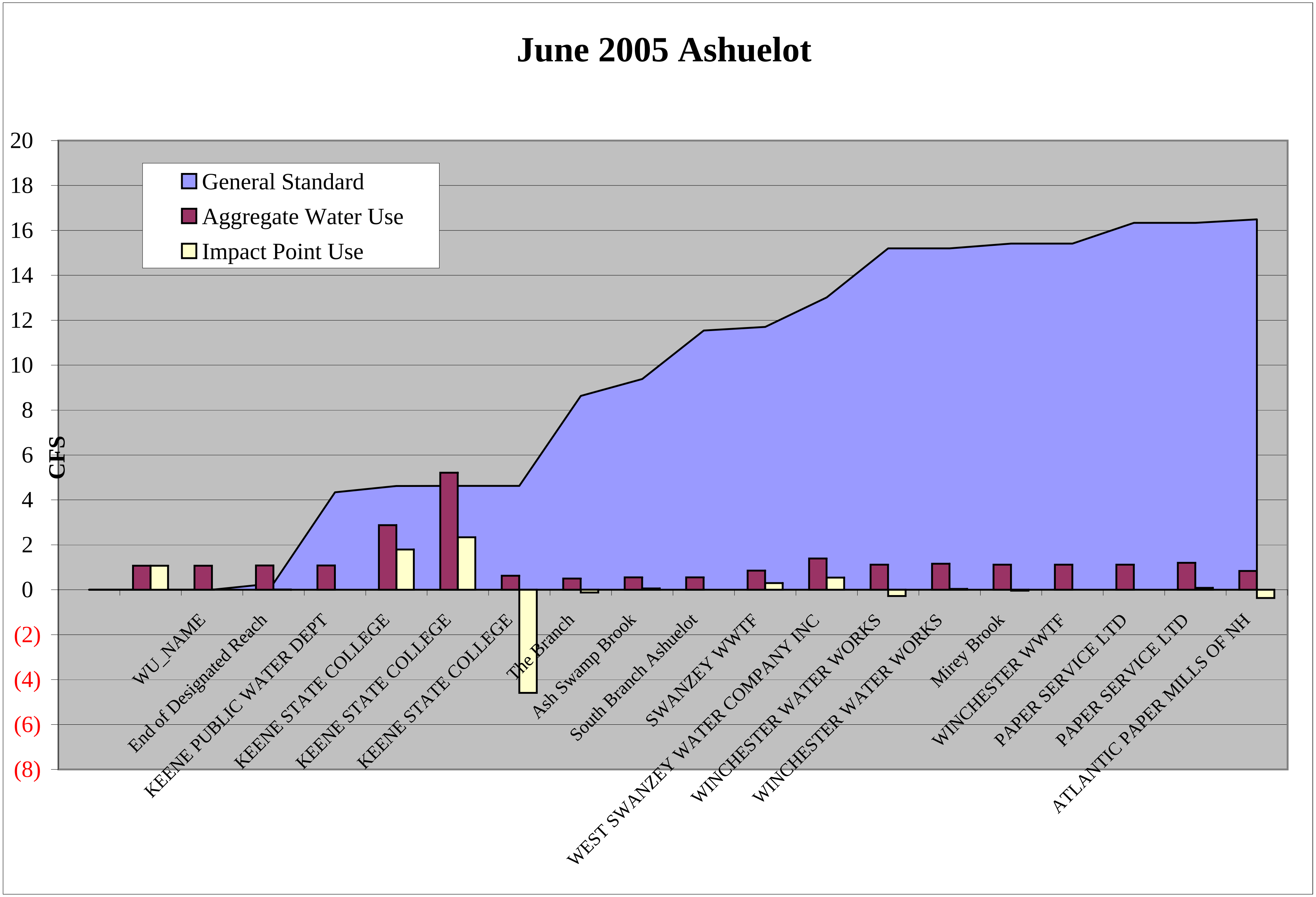

June 2005 Ashuelot
General Standard
Aggregate Water Use
Impact Point Use
CFS
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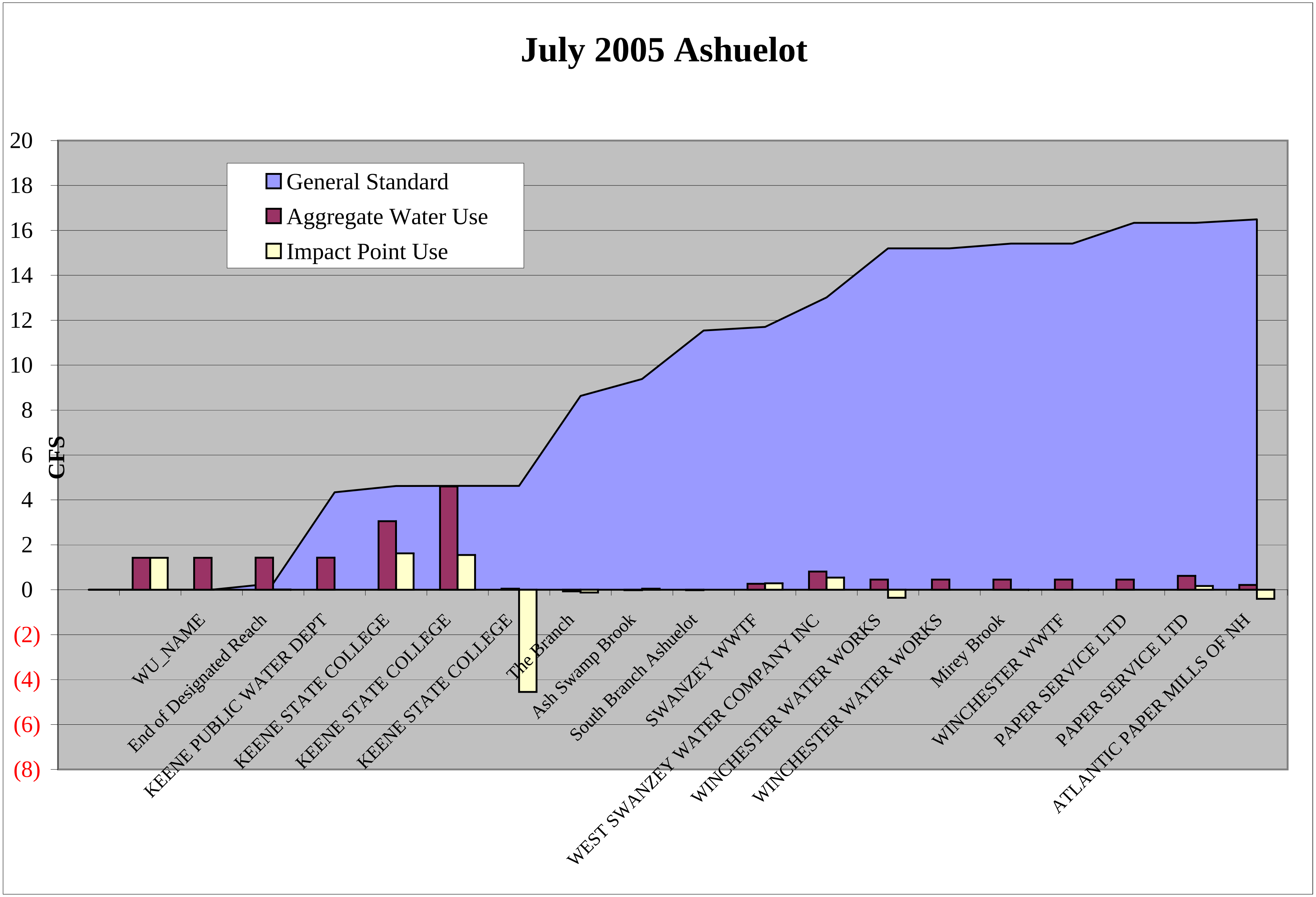
July 2005 Ashuelot
General Standard
Aggregate Water Use
Impact Point Use
CFS
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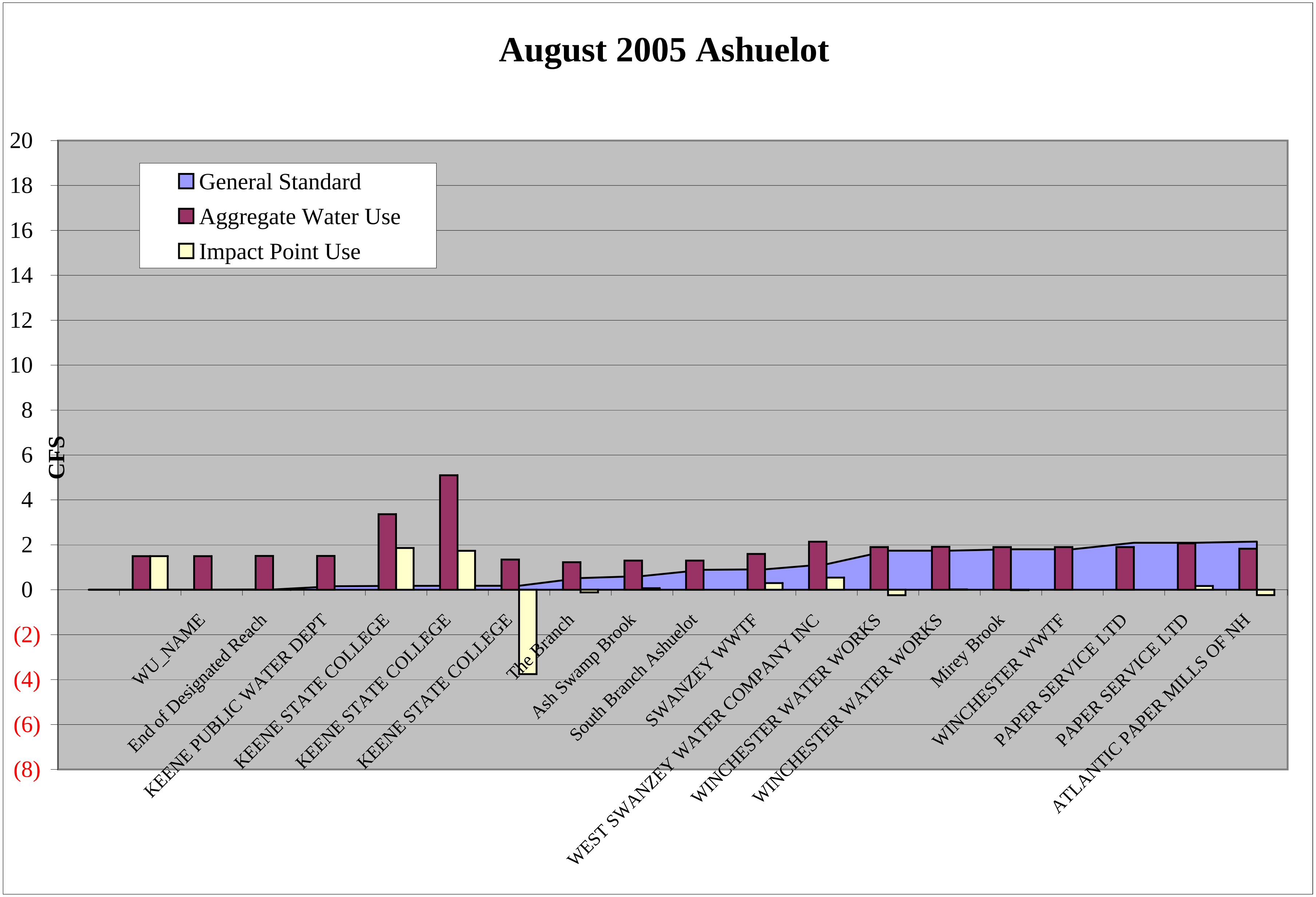

August 2005 Ashuelot
General Standard
Aggregate Water Use
Impact Point Use
CFS
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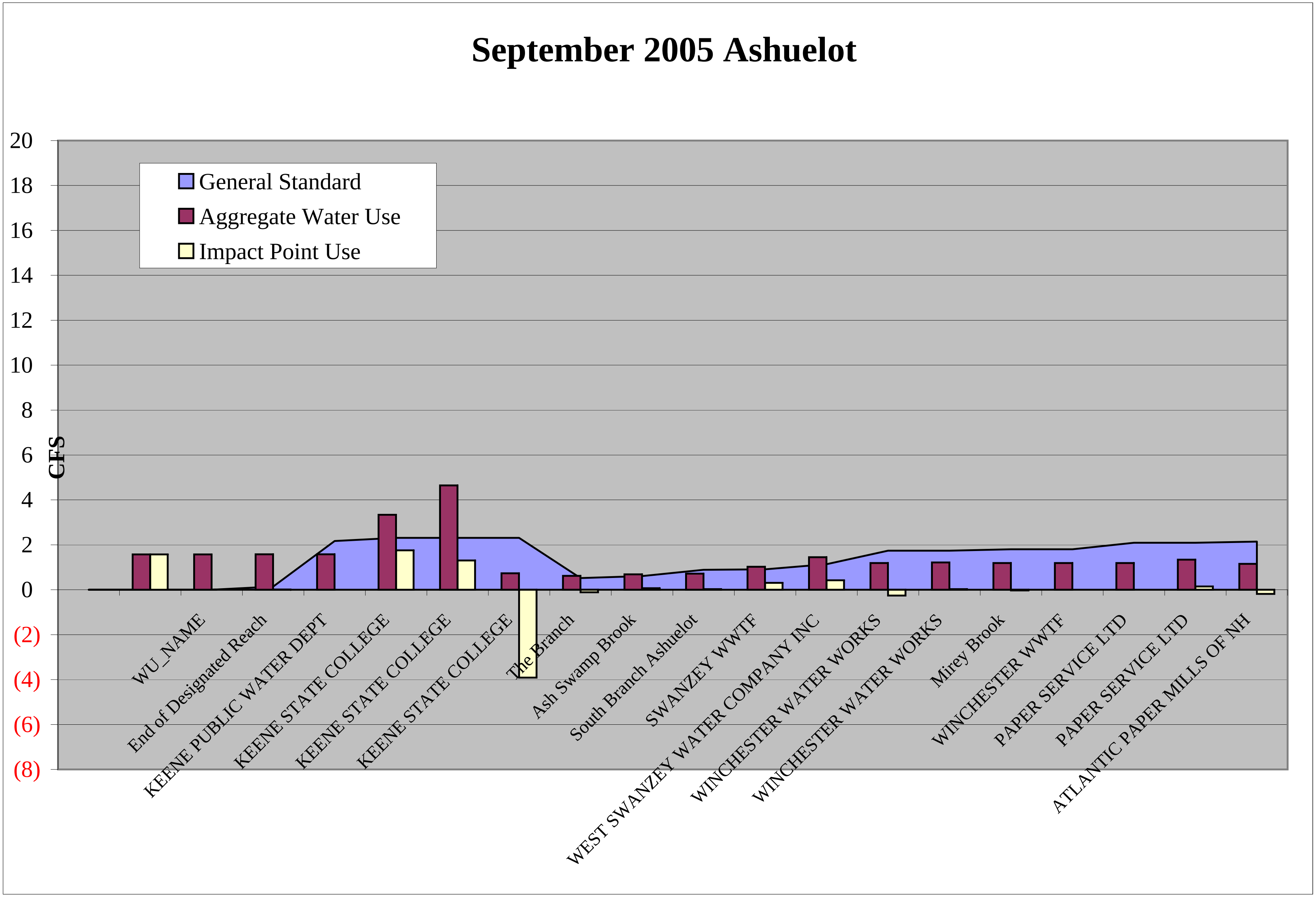
September 2005 Ashuelot
General Standard
Aggregate Water Use
Impact Point Use
CFS
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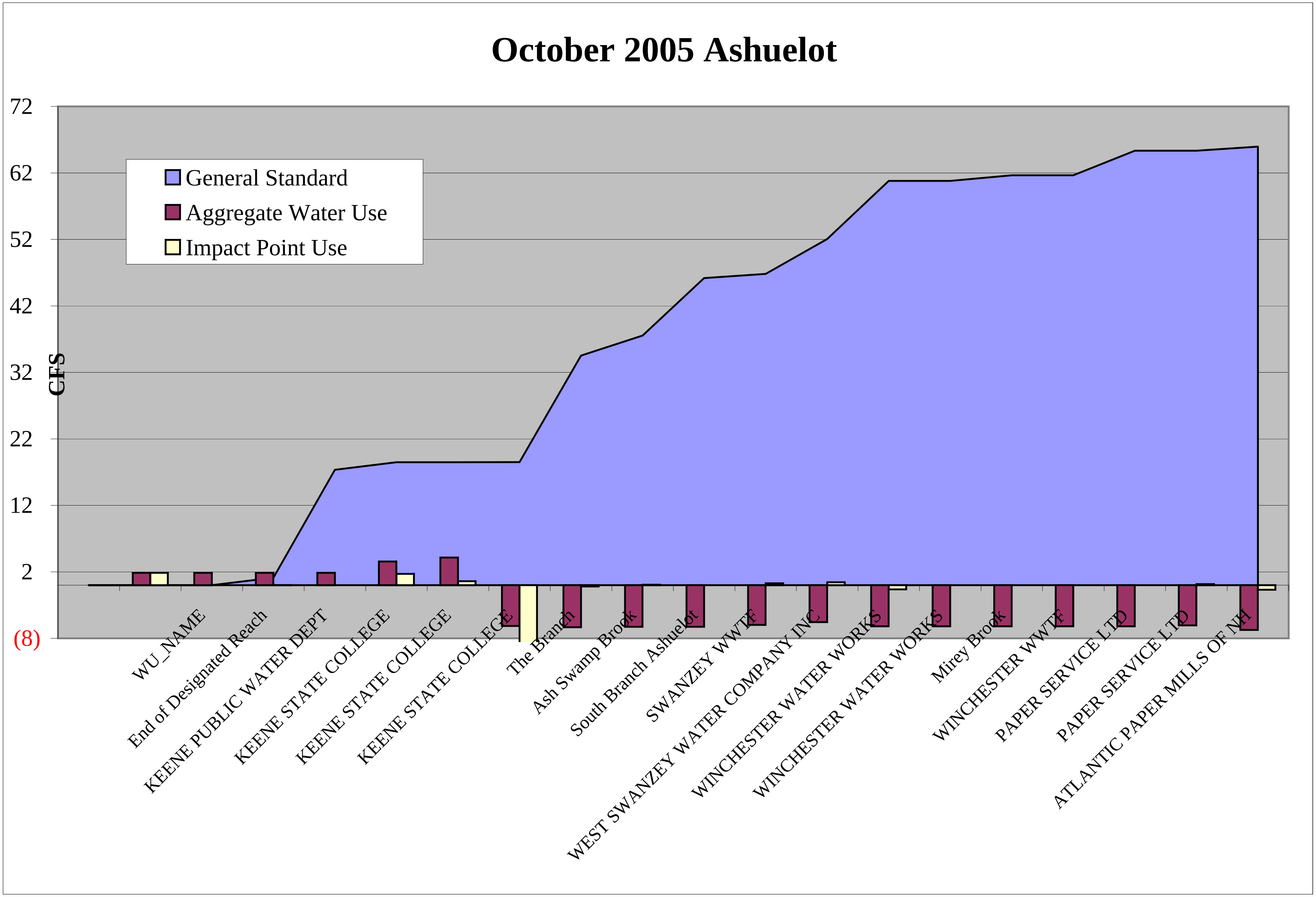
October 2005 Ashuelot
CFS
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General Standard
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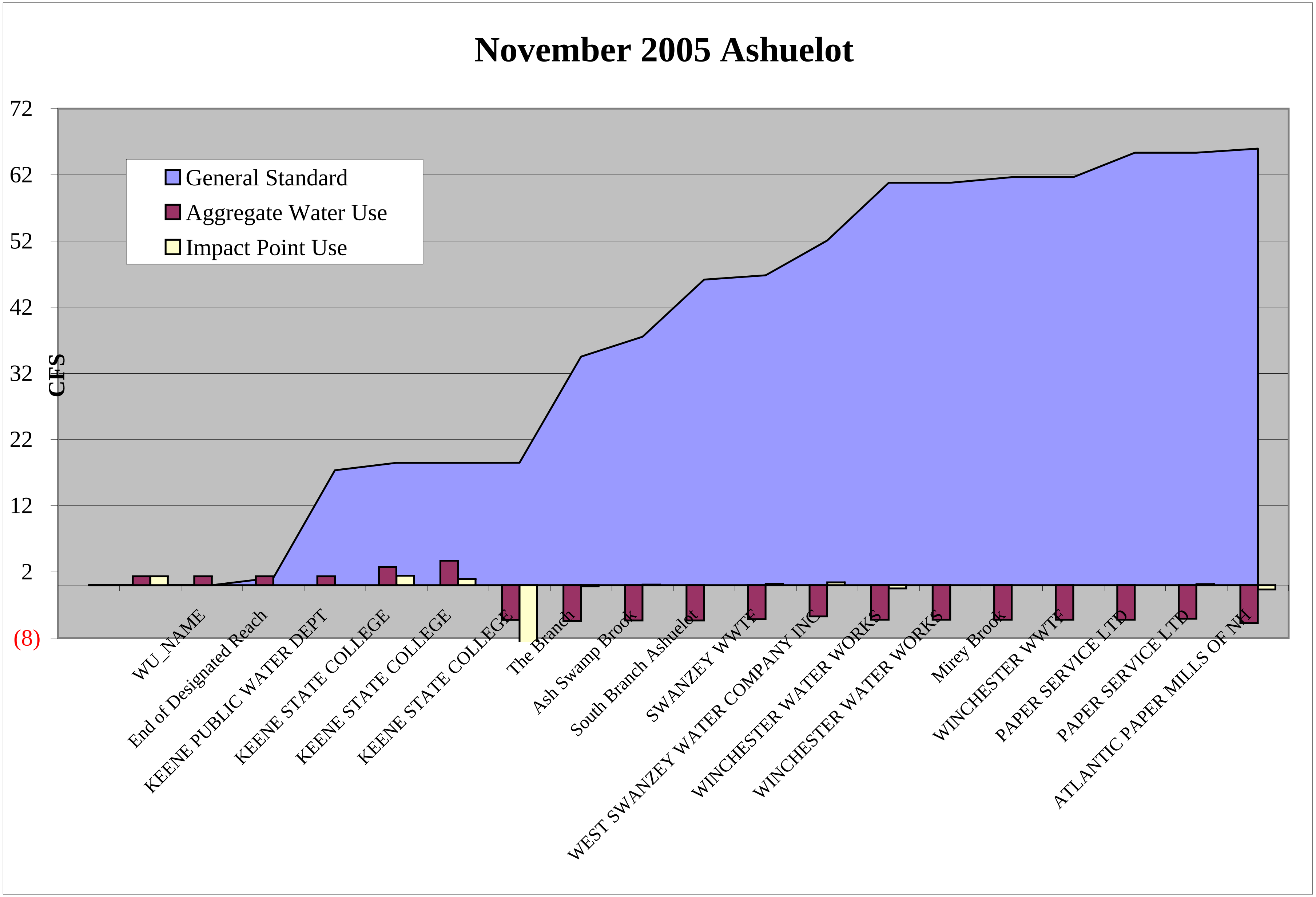

November 2005 Ashuelot
General Standard
Aggregate Water Use
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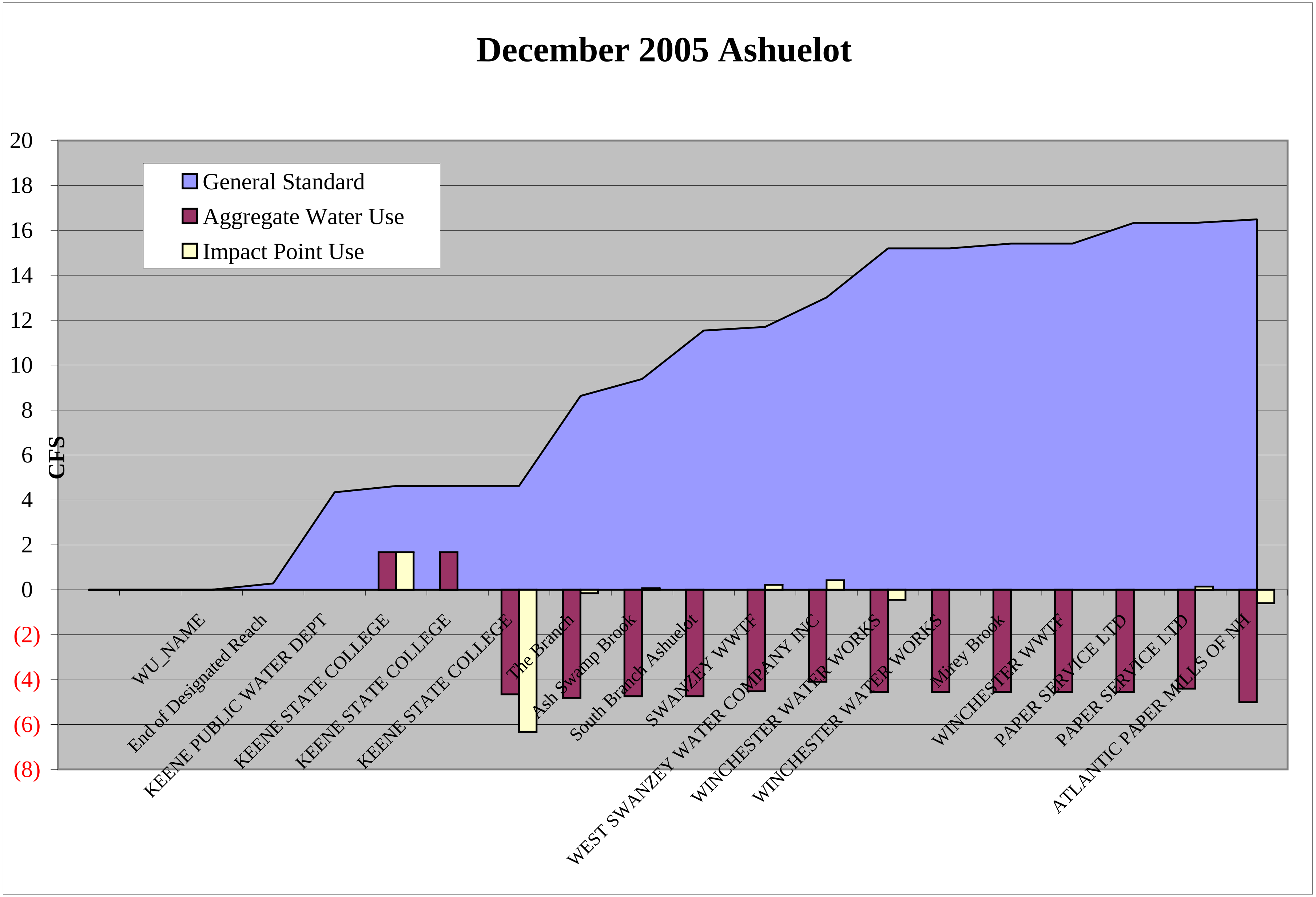

December 2005 Ashuelot
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