

Stream Gage Task Force
September 15, 2006

Report
Appendix A

<p style="text-align: center;">Table A1 - NH SGN Data Uses for Existing Gages</p>				For each gage, the count of the number of times a use was identified by users							
				Real-time Flow Data Needs				Historical Flow Data Needs			
				Flood control and response	Reservoir management	Flow availability	Water related permit conditions implementation and monitoring	Water availability and flow assessments	Hydrologic trends and statistical assessments such as climate change, and regression analysis for ungaged streams	Hydraulic design and geomorphology studies	Waste and Water Chemistry assessments
Gage Status	HUC-10 Index (6)	USGS or NHDES Gage Station number	Existing gage names								
Continuous (1)	A3	01052500	Diamond River near Wentworth Location, NH	1	0	2	2	3	7	4	1
Continuous	A5	01053500	Androscoggin River at Errol, NH	0	1	3	4	4	4	2	2
Continuous	A5	01054000	Androscoggin River near Gorham, NH	0	1	3	4	4	4	2	2
HDCN (2)	C1	SFMNH	Milton 3-Ponds (formerly 01072100 Salmon Falls River at Milton, NH)	2	2	2	4	3	4	2	3
Continuous	C2	01072800	COCHECO RIVER NEAR ROCHESTER, NH.	1	0	3	4	4	4	2	3
Closing - Continuous(3)	C2	01072870	ISINGLASS R AT ROCHESTER NECK RD, NR DOVER, NH	0	0	3	3	7	5	4	3
Closing - Continuous	C3	01073460	NORTH RIVER ABOVE NH 125, NEAR LEE, NH	0	0	2	3	6	6	5	2
Continuous	C3	01073500	LAMPREY RIVER NEAR NEWMARKET, NH	2	0	5	7	8	6	5	4
Continuous	C4	01073587	EXETER RIVER AT HAIGH ROAD, NEAR BRENTWOOD, NH	2	0	3	4	7	5	4	3

Appendix A – Table 1 – Existing Gages Data Use

Continuous	C5	01073000	OYSTER RIVER NEAR DURHAM, NH	0	0	3	3	4	7	4	3
Closing - Continous	C5	01073785	WINNICUT RIVER AT GREENLAND, NR PORTSMOUTH, NH	0	0	2	2	4	5	4	1
Closing - Continous	C6	01073822	LITTLE RIVER AT WOODLAND ROAD, NEAR HAMPTON, NH	0	0	2	2	4	5	4	1
Continuous	Ct10	01131500	CONNECTICUT RIVER NEAR DALTON, NH	2	2	2	5	6	5	3	3
Continuous	Ct12	01137500	AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, NH	1	0	3	4	5	9	5	4
Continuous	Ct14	01138500	CONNECTICUT RIVER AT WELLS RIVER, VT	3	3	4	5	6	5	3	4
HDCN	Ct17	MCAN3	Mascoma Lake (formerly 01150500 Mascoma River at Mascoma, NH)	2	2	3	3	4	5	3	4
HDCN	Ct17	WCNN3	Mascoma River (formerly 01145000 Mascoma River at West Canaan, NH)	1	2	2	3	5	6	4	2
Continuous	Ct18	01144500	CONNECTICUT RIVER AT WEST LEBANON, NH	3	3	4	5	7	5	3	4
Continuous	Ct19	01152500	SUGAR RIVER AT WEST CLAREMONT, NH	2	1	3	4	5	5	3	4
Continuous	Ct2	01129200	CONNECTICUT R BELOW INDIAN STREAM NR PITTSBURG, NH	2	3	4	6	7	5	3	3
Continuous	Ct22	01154500	CONNECTICUT RIVER AT NORTH WALPOLE, NH	3	3	4	5	7	5	3	4
Continuous	Ct23	01158000	ASHUELOT RIVER BELOW SURRY MT DAM, NEAR KEENE, NH	3	3	3	5	6	5	3	3
Continuous	Ct24	01158600	OTTER BROOK BELOW OTTER BROOK DAM, NEAR KEENE, NH	2	2	2	4	5	5	3	3
Stage-only (4)	Ct25	01158110	ASHUELOT RIVER ABOVE THE BRANCH, AT KEENE, NH (stage only)	3	3	3	4	5	5	4	3
Continuous	Ct26	01160350	ASHUELOT RIVER AT WEST SWANZEY, NH	3	3	4	5	7	6	5	4
Continuous	Ct26	01161000	ASHUELOT RIVER AT HINSDALE, NH	2	2	4	5	7	5	3	4
Continuous	Ct5	01129500	CONNECTICUT RIVER AT NORTH STRATFORD, NH	2	2	4	5	7	6	3	4
Continuous	M1	01074520	EAST BRANCH PEMIGEWASSET RIVER AT LINCOLN, NH	2	1	3	4	6	9	5	4
Continuous	M10	01081000	WINNIPESAUKEE RIVER AT TILTON, NH	3	2	3	4	6	5	3	4
Continuous	M11	01082000	CONTOOCOOK RIVER AT PETERBOROUGH, NH	3	3	4	5	7	7	4	4

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PR (5)	M11	01083000	NUBANUSIT BK BLW MACDOWELL DAM NR PETERBOROUGH NH (partial record)	2	2	2	4	3	6	2	3
Continuous	M13	01086000	WARNER RIVER AT DAVISVILLE, NH	2	2	3	4	5	9	5	4
PR	M14	01087000	BLACKWATER RIVER NEAR WEBSTER, NH (partial record)	2	2	2	4	4	5	2	2
PR	M15	01085000	CONTOOCOOK RIVER NEAR HENNIKER, NH (partial record)	3	2	5	4	5	6	3	3
Continuous	M15	01085500	CONTOOCOOK R BL HOPKINTON DAM AT W HOPKINTON, NH	3	3	4	6	6	5	3	4
Stage-only	M15	01087850	CONTOOCOOK RIVER AT RIVER HILL, NEAR PENACOOK, NH (stage only)	3	3	3	3	5	3	2	2
Continuous	M18	01081500	MERRIMACK RIVER AT FRANKLIN JUNCTION, NH	3	3	4	6	7	5	3	4
Continuous	M19	01089100	SOUCOOK RIVER, AT PEMBROKE ROAD, NEAR CONCORD, NH	1	0	1	3	5	8	5	3
Continuous	M2	01075000	PEMIGEWASSET RIVER AT WOODSTOCK, NH	3	3	4	5	7	9	5	4
Stage-only	M20	01088400	MERRIMACK RIVER AT CONCORD, NH (stage only)	4	3	2	2	4	3	2	3
PR	M23	01090800	PISCATAQUOG RIVER BL EVERETT DAM, NR E WEARE, NH (partial record)	3	3	3	4	5	4	2	2
PR	M23	01091500	PISCATAQUOG RIVER NEAR GOFFSTOWN, NH (partial record)	3	3	4	5	5	5	3	4
Continuous	M25	01092000	MERRIMACK R NR GOFFS FALLS, BELOW MANCHESTER, NH	4	3	4	5	7	5	3	5
Continuous	M26	01094000	SOUHEGAN RIVER AT MERRIMACK, NH	3	2	4	5	8	5	4	4
Continuous	M28	01100505	SPICKET RIVER AT NORTH SALEM, NH	1	1	2	2	5	4	3	2
PR	M28	01100561	SPICKET RIVER NEAR METHUEN, MA (partial record)	2	2	1	2	5	4	3	3
Closing - Continuous	M28	011005605	POLICY BR @ I-93N REST STOP ENT RAMP, NR SALEM, NH	0	0	1	2	5	4	3	3
Continuous	M29	010965852	BEAVER BROOK AT NORTH PELHAM, NH	0	0	2	2	5	7	5	3
Continuous	M3	01076000	BAKER RIVER NEAR RUMNEY, NH	3	1	3	3	5	8	5	3
Continuous	M4	01076500	PEMIGEWASSET RIVER AT PLYMOUTH, NH	3	2	4	5	7	8	5	4
HDCN	M5	ASHNH	Squam River at Ashland, N.H. (formerly	2	2	3	3	5	5	3	4

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			01077000)								
HDCN	M6	NFLNH	Newfound Lake Dam (formerly 01077500 Newfound Lake Near Bristol, NH)	2	2	1	2	4	4	2	2
Continuous	M7	01078000	SMITH RIVER NEAR BRISTOL, NH	2	1	2	3	5	8	5	3
HDCN	M9	LKPN3	Lake Winnepesaukee Outlet at Lakeport, N.H. (formerly 01080500)	2	2	1	3	4	4	3	3
Continuous	S3	01064500	Saco River near Conway, NH	2	0	4	4	7	9	4	4
Continuous	S5	01064801	BEARCAMP RIVER AT SOUTH TAMWORTH, NH	2	1	2	2	5	7	5	3
HDCN	S8	OSRNH	Ossipee River at Effingham Falls, N.H. (formerly 01065000)	2	2	2	2	5	5	3	3

(6) Index - for this study USGS HUC-10 numbers were renamed with the first letter of their major basin and sequential numbering.

A=Androscoggin, C=Coastal, Ct=Connecticut, M=Merrimack, S=Saco

- (1) Continuous = USGS continuous record gage (measurements accurate for full range of high and low flows)
- (2) HDCN = Hydrologic Data Collection Network (NHDES Dam Bureau station)
- (3) Closing - Continuous = Continuous gages without funding after either 2006 or 2007
- (4) Stage-only = USGS water height measurement station
- (5) PR = USGS partial record gage (measurements accurate only for some of the data such as the high or low flows)

Table A2 - NH SGN User Rankings for Existing Gages

				For each gage the user identified ranking of gage for their use														Summary	
				Gage ranking for this Data Use: 1) Vital; 2) Supporting; 3) Better gage needed															
Gage Status	HUC-10 Index (6)	USGS or NHDES Gage Station number	Names of existing gages	NH Fish & Game	NHDES Waste Water Engineering Bureau	Consulting (NAI)	NH Stream Team	US Army Corps of Engineers	NH InStream Flow Program	NH Watershed Management Bureau	US Fish & Wildlife	US Geological Survey	NHDES Dam Bureau	Rivers Management Local Advisory Committees	University of NH	Plymouth State University	NH Geological Survey	Number of respondents using gage	Number of respondents reporting vital data need (= 1)
Continuous (1)	A3	01052500	Diamond River near Wentworth Location, NH	1		1	1				1	1	2				1	7	6
Continuous	A5	01053500	Androscoggin River at Errol, NH	1	2	2				2	1	1	2				1	8	4
Continuous	A5	01054000	Androscoggin River near Gorham, NH	1	1	2				2	1	1	2				1	8	5
HDCN (2)	C1	SFMNH	Milton 3-Ponds (formerly 01072100 Salmon Falls River at Milton, NH)	1	1						1	1	1				1	6	6
Continuous	C2	01072800	COCHECO RIVER NEAR ROCHESTER, NH.	1	1	2				1	1	1	2				1	8	6
Closing - Continuous(3)	C2	01072870	ISINGLASS R AT ROCHESTER NECK RD, NR DOVER, NH	1		1			1	1		1	2	1			1	8	7
Closing - Continuous	C3	01073460	NORTH RIVER ABOVE NH 125, NEAR LEE, NH	1		1			2	2		2	2	2	1		1	9	4
Continuous	C3	01073500	LAMPREY RIVER NEAR NEWMARKET, NH	1	1	1			1	1	1	1	2	1	1		1	11	10
Continuous	C4	1073587	EXETER RIVER AT HAIGH ROAD, NEAR BRENTWOOD, NH	1		1			1	1	1	1	2	1			1	9	8
Continuous	C5	01073000	OYSTER RIVER NEAR DURHAM, NH	1	1	2	1			2		1	2		1		1	9	6
Closing - Continuous	C5	1073785	WINNICUT RIVER AT GREENLAND, NR PORTSMOUTH, NH	1		2				1	2	2	2				1	7	3

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Closing - Continuous	C6	1073822	LITTLE RIVER AT WOODLAND ROAD, NEAR HAMPTON, NH	1		2				2		3	2			1	6	2		
Continuous	Ct10	01131500	CONNECTICUT RIVER NEAR DALTON, NH	1			1	1	1	1	1	2	1			1	9	8		
Continuous	Ct12	01137500	AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, NH	1	1	1	1	1		2	1	1	2	2	1		1	12	9	
Continuous	Ct14	01138500	CONNECTICUT RIVER AT WELLS RIVER, VT	1	1	1		1	1	2	1	1	2	1			1	11	9	
HDCN	Ct17	MCAN3	Mascoma Lake (formerly 01150500 Mascoma River at Mascoma, NH)	1	1	1						1	1	2			1	7	6	
HDCN	Ct17	WCNN3	Mascoma River (formerly 01145000 Mascoma River at West Canaan, NH)	1		1	1				1	2	1	2			1	8	6	
Continuous	Ct18	01144500	CONNECTICUT RIVER AT WEST LEBANON, NH	1	1	1		1	1	2	1	1	2	1			1	11	9	
Continuous	Ct19	01152500	SUGAR RIVER AT WEST CLAREMONT, NH	1	1	1				2	1	1	2	2			1	9	6	
Continuous	Ct2	01129200	CONNECTICUT R BELOW INDIAN STREAM NR PITTSBURG, NH	1	1	1			1	1	1	1	2	1			1	10	9	
Continuous	Ct22	01154500	CONNECTICUT RIVER AT NORTH WALPOLE, NH	1	1	1		1	1	1	1	1	2	1			1	11	10	
Continuous	Ct23	01158000	ASHUELOT RIVER BELOW SURRY MT DAM, NEAR KEENE, NH	1	1			1	1	2	1	1	2	1			1	10	8	
Continuous	Ct24	01158600	OTTER BROOK BELOW OTTER BROOK DAM, NEAR KEENE, NH	1	1			1		2	1	1	2	2	1		1	10	7	
Stage-only (4)	Ct25	01158110	ASHUELOT RIVER ABOVE THE BRANCH, AT KEENE, NH (stage only)	1		1		1			1	2	2	1			1	8	6	
Continuous	Ct26	01160350	ASHUELOT RIVER AT WEST SWANZEY, NH	1	1	1		1	1	2	1	1	2	1			1	11	9	
Continuous	Ct26	01161000	ASHUELOT RIVER AT HINSDALE, NH	1	1	1			1	2	1	1	2	1			1	10	8	
Continuous	Ct5	01129500	CONNECTICUT RIVER AT NORTH STRATFORD, NH	1	1	1		1	1	1	1	1	2	1			1	11	10	
Continuous	M1	01074520	EAST BRANCH PEMIGEWASSET RIVER AT LINCOLN, NH	1	1	1	1	1		1	1	1	2	2	1	1	1	1	13	11
Continuous	M10	01081000	WINNIPESAUKEE RIVER AT	1	1	1		1	1	2	1	1	1	2			1	1	12	10

Appendix A – Table 2 – Existing Gages User Rankings

			TILTON, NH																
Continuous	M11	01082000	CONTOOCOOK RIVER AT PETERBOROUGH, NH	1	1	1	1	1	1	2	1	1	2	1			1	12	10
PR (5)	M11	01083000	NUBANUSIT BK BLW MACDOWELL DAM NR PETERBOROUGH NH (partial record)	1	1			1			1	1	2	2			1	8	6
Continuous	M13	01086000	WARNER RIVER AT DAVISVILLE, NH	1	1	1	1	1	3		2	1	2	2			1	11	7
PR	M14	01087000	BLACKWATER RIVER NEAR WEBSTER, NH (partial record)	1		1		1			1	1	2	2			1	8	6
PR	M15	01085000	CONTOOCOOK RIVER NEAR HENNIKER, NH (partial record)	1	1	1		1			1	2	2	1			1	9	7
Continuous	M15	01085500	CONTOOCOOK R BL HOPKINTON DAM AT W HOPKINTON, NH	1	1	1		1	1		1	1	2	1			1	10	9
Stage-only	M15	01087850	CONTOOCOOK RIVER AT RIVER HILL, NEAR PENACOOK, NH (stage only)	1		1		1		2	2	3	2	1			1	9	5
Continuous	M18	01081500	MERRIMACK RIVER AT FRANKLIN JUNCTION, NH	1	1	1		1	1	2	1	1	2	1			1	11	9
Continuous	M19	01089100	SOUCOOK RIVER, AT PEMBROKE ROAD, NEAR CONCORD, NH	1		1	1			2	2	1	2	2			1	9	5
Continuous	M2	1075000	PEMIGEWASSET RIVER AT WOODSTOCK, NH	1	1	1	1	1	1	1	2	1	2	1	1	1	1	14	12
Stage-only	M20	01088400	MERRIMACK RIVER AT CONCORD, NH (stage only)	1		1		1	3	3	2	2	2	1			1	10	5
PR	M23	01090800	PISCATAQUOG RIVER BL EVERETT DAM, NR E WEARE, NH (partial record)	1		1		1	3		1	1	2	1			1	9	7
PR	M23	01091500	PISCATAQUOG RIVER NEAR GOFFSTOWN, NH (partial record)	1	2	1		1	3		1	1	2	1			1	10	7
Continuous	M25	01092000	MERRIMACK R NR GOFFS FALLS, BELOW MANCHESTER, NH	1	1	1		1	1	1	1	1	2	1	1		1	12	11
Continuous	M26	01094000	SOUHEGAN RIVER AT MERRIMACK, NH	1	1	1		1	1	2	1	1	2	1	1		1	12	10
Continuous	M28	01100505	SPICKET RIVER AT NORTH SALEM, NH	1		1				1		1	2	2	1		1	8	6
PR	M28	01100561	SPICKET RIVER NEAR METHUEN, MA (partial record)	1				1		1		1	2	2	1		1	8	6

Appendix A – Table 2 – Existing Gages User Rankings

Closing - Continuous	M28	011005605	POLICY BR @ I-93N REST STOP ENT RAMP, NR SALEM, NH	1						1		2	2	2	1		1	7	4
Continuous	M29	010965852	BEAVER BROOK AT NORTH PELHAM, NH	1		1	1			1		1	2	2	1		1	9	7
Continuous	M3	1076000	BAKER RIVER NEAR RUMNEY, NH	1	1	1		1		2	1	1	2	2	1	1	1	12	9
Continuous	M4	1076500	PEMIGEWASSET RIVER AT PLYMOUTH, NH	1	1	1		1	1	1	2	1	2	1		1	1	12	10
HDCN	M5	ASHNH	Squam River at Ashland, N.H. (formerly 01077000)	1	1	1				1		1	1	2			1	8	7
HDCN	M6	NFLNH	Newfound Lake Dam (formerly 01077500 Newfound Lake Near Bristol, NH)	1							1	1	1	2			1	6	5
Continuous	M7	01078000	SMITH RIVER NEAR BRISTOL, NH	1		1	1	1		2	1	1	2	2			1	10	7
HDCN	M9	LKPN3	Lake Winnepesaukee Outlet at Lakeport, N.H. (formerly 01080500)	1							1	1	1	2			1	6	5
Continuous	S3	1064500	Saco River near Conway, NH	1	1	1	1		1	2	1	1	2	1	1		1	12	10
Continuous	S5	01064801	BEARCAMP RIVER AT SOUTH TAMWORTH, NH	1		1	1			2		1	2	2			1	8	5
HDCN	S8	OSRNH	Ossipee River at Effingham Falls, N.H. (formerly 01065000)	1		1				2		1	1	2			1	7	5

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(3) Closing - Continuous = Continuous gages without funding after either 2006 or 2007

(4) Stage-only = USGS water height measurement station

(5) PR = USGS partial record gage (measurements accurate only for some of the data such as the high or low flows)

<p style="text-align: center;">Table A3 - Data Uses of Proposed Gages</p>				Real-time Flow Data Needs				Historical Flow Data Needs				Proposer
				Flood control and response	Reservoir management	Flow availability	Water related permit conditions implementation and monitoring	Water availability and flow assessments	Hydrologic trends and statistical assessments such as climate change, and regression analysis for ungaged streams	Hydraulic design and geomorphology studies	Waste and Water Chemistry assessments	
Priority (1, 2, or 3)*	Proposed Gage is (T) Temporary or (P) Permanent	Proposed Gage is (C) Continuous or (PR) Partial Record	Description of gage: (Include details on any of the following applicable to the proposed gage) location, ecoregion, physiographic region, drainage area, slope, elevation, %urban, %forested, precipitation. Include written description of the purposes for the gage. Describe whether the proposed gage is currently needed, upgrade to an existing gage, would replace a less adequate gage, or is an anticipated future need.									
3	P	C	Moose River, Gorham area, trib. to Androscoggin abv Town	X		X		X	X	X		USGS
1	P	C	Peabody River, Gorham area, trib. to Androscoggin bel. Town	X		X		X	X	X		USGS
1	P	C	01072870 Isinglass River nr Dover, NH, DA=73.6, NH Designated River, upstream from landfill site.			X	X	X		X	X	USGS
3	P	C	Located on the upper Isinglass . There is a short (3 mile) segment with no registered water users on the Designated River, but the river has a large water withdrawal on a tributary.				X	X				DES WMB ISF
3	P	C	Isinglass River: Gage needed on upper river (currently gaged near Dover) <i>Details:</i> N/A (Note: DES high-priority watershed for restoration; inadequate drainage area coverage on upper river and one water user on a tributary that impacts or is impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Anticipated future gage need				X	X	X			RMLAC
1	P	C	1072850 Mohawk R. Center Strafford, NH						X	X		NHGS

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

Appendix A – Table 3 – Data uses of Proposed Gages

3	P	C	Lamprey River upstream of Raymond. Need is related to NPDES permitting and compliance issues for possible new POTW in Raymond			X	X		X		X	DES - Wastewater Engineering Bureau
1	P	C	Upper Lamprey River near Epping, NH, supplement to Packers Falls gage			X		X				Consulting (NAI)
1	P	C	Lamprey River NW corner Raymond, NH, encompassing HUC12 010600030702 and HUC12 010600030701						X			NHGS
1	P	C	01073460 North River nr Lee, NH, DA=35.6, unregulated tributary to the Lamprey River.			X	X	X	X	X		USGS
1	P	C	Squamscott River, Newmarket, Newfields, Exeter area, coastal, various water uses	X		X	X	X	X	X	X	USGS
3	P	C	Located on the upper Exeter River to support water use assessments on the upper 9 miles of river with one registered water user.				X	X				DES WMB ISF
3	P	C	Exeter River: Gage needed on upper river (currently gaged near Brentwood) <i>Details:</i> N/A (Note: DES high-priority watershed for restoration; inadequate drainage area coverage on upper river and one water user that impacts or is impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Anticipated future gage need				X	X	X			RMLAC
3	P	C	Dudley Br. former USGS gage 1073600, 0 - 25 mi ²						X			NH Stream Team
1	P	C	1073600 Dudley Br. Exeter, NH						X	X		NHGS
1	P	C	01073785 Winnicut River nr Portsmouth, NH, DA=14.1, located near mouth at 1st dam at head of tide			X	X	X			X	USGS
3	P	C	Big Br. former USGS gage 1127880, 0 - 25 mi ²						X			NH Stream Team
3	P	C	Located on the upper reaches (18 miles) of the Connecticut River. There are no registered water users. Low priority.				X	X				DES WMB ISF
3	P	C	Connecticut River: Gage needed on upper river (currently gaged at six downstream sites) <i>Details:</i> N/A (Note: DES high-priority watershed for protection; inadequate drainage area coverage on upper river according to DES; recreation area) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Anticipated future gage need				X	X	X			RMLAC
3	P	C	Gale River, unregulated site			X	X	X	X	X		USGS

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

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1	P	C	Ammonoosuc River - Bethlehem - coverage lacking in a high growth potential area			X	X					DES WMB Ambient and 401
3	P	C	Ammonoosuc River near Bath (reactivate gage). Need is related to NPDES permitting and compliance issues with the Littleton POTW and Lisbon POTW			X	X		X		X	DES - Wastewater Engineering Bureau
1	P	C	01138000 Ammonoosuc River nr Bath, NH, DA=395, unregulated	X		X		X	X	X		USGS
3	P	C	Wild Ammonoosuc River, unregulated high elev. site			X	X	X	X	X		USGS
3	P	C	Eastman Brook in Piermont upstream of Piermont POTW. Need is related to NPDES permitting and compliance issues with the Piermont POTW.			X	X		X		X	DES - Wastewater Engineering Bureau
3	P	C	Mink Br. former USGS gage 1141800, 0 - 25 mi ²						X			NH Stream Team
1	P	C	1141800 Mink Br. Etna, NH						X	X		NHGS
3	P	C	Blood Brook in Plainfield upstream of Meriden POTW. Need is related to NPDES permitting and compliance issues with the Meriden POTW.			X	X		X		X	DES - Wastewater Engineering Bureau
1	P	C	Sugar River - Sunapee - coverage lacking in a high growth potential area			X	X					DES WMB Ambient and 401
1	P	C	Cold River near Cold River, NH			X		X				Consulting (NAI)
3	P	C	Cold R. former USGS gage 1155000, >80 - 150 mi ²						X			NH Stream Team
1	P	C	01155000 Cold River at Drewsville, NH, DA= 82.7, unregulated watershed, NH Designated River	X		X		X	X	X		USGS
3	P	C	Located on the Cold River (Former USGS gage at Drewsville). Only one small water use currently registered. Assessments currently rely on a surrogate gage in Vermont. However, may represent a small, relatively unimpacted watershed for a reference gage.				X	X				DES WMB ISF

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

Appendix A – Table 3 – Data uses of Proposed Gages

			Cold River: At least one gage needed (no gages at present) <i>Details:</i> Rural/unregulated; flash flood-prone; high-priority USFWS salmon nursery; small-moderate drainage; DES high-priority watershed for protection; wildlife and plant habitats of state/national/global significance; recreational uses; active VRAP program <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Currently needed gage(s) - including one at Drewsville, NH (historical gaging site)										
1	P	C		X	X	X	X	X	X	X	X	X	RMLAC
1	P	C	1155000 Cold R. Drewsville, NH								X		NHGS
3	P	C	Ashuelot R. former USGS gage 1157000, >25 - 80 mi ²							X			NH Stream Team
1	P	C	01157000 Ashuelot River nr Gilsum, NH, DA=71.1, unregulated watershed, headwaters of NH Designated River	X	X	X			X	X	X		USGS
3	P	C	Located on the upper Ashuelot River. Upper river has several dams, few water users and 28 miles that are poorly gaged. May also represent a small, relatively unimpacted watershed for a reference gage.					X	X				DES WMB ISF
3	P	C	Ashuelot River: Gage needed on upper river (current gages at several downstream sites) <i>Details:</i> N/A (Note: DES high-priority watershed for protection; "threatened"; inadequate drainage area coverage on upper river and several water users/dams that impact or are impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Anticipated future gage need					X	X	X			RMLAC
1	T	C	Beaver Brook, Keene, DA=5.9, flows through center of Keene, trib. to Ashuelot River	X				X	X	X	X		USGS
1	P	C	South Branch Ashuelot near Webb (reactivate or install new gage higher in watershed). Need is related to NPDES permitting and compliance issues with the Troy POTW				X	X		X		X	DES - Wastewater Engineering Bureau
3	P	C	S.Branch Ashuelot R. former USGS gage 1160000, >25 - 80 mi ²							X			NH Stream Team
1	P	C	01160000 South Br, Ashuelot River nr Marlboro, NH, DA=36.0, unregulated watershed,	X	X	X			X	X	X		USGS
1	P	C	1160000 S.Branch Ashuelot R. Webb, nr Marlborough, NH							X	X		NHGS
3	P	C	Hall Stream former USGS gage 1129300, >80 - 150 mi ²							X			NH Stream Team

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

Appendix A – Table 3 – Data uses of Proposed Gages

3	P	C	Mohawk R. former USGS gage 1129440, >25 - 80 mi ²							X			NH Stream Team	
1	P	C	01129440 Mohawk River nr Colebrook, NH, DA=36.7, unregulated tributary to CT R.	X	X	X			X	X	X		USGS	
1	P	C	Upper Ammonoosuc River near Groveton (reactivate gage). Need is related to NPDES permitting and compliance issues with the Groveton POTW and Wausau Paper			X	X			X		X	DES - Wastewater Engineering Bureau	
3	P	C	Upper Ammonoosuc River former USGS gage 1130000, >150 mi ²							X			NH Stream Team	
1	P	C	01130000 Upper Ammonoosuc River nr Groveton, NH, DA=232, upstream diversion from Berlin,	X	X	X			X	X	X		USGS	
1	P	C	1130000 Upper Ammonoosuc R. near Groveton, NH							X	X		NHGS	
3	T	C	Israel River , Lancaster/Jefferson area, unregulated site	X		X	X	X	X	X	X	X	USGS	
1	P	C	John's River in Whitefield upstream of the Whitefield POTW. Need is related to NPDES permitting and compliance issues with the Whitefield POTW.			X	X			X		X	DES - Wastewater Engineering Bureau	
3	P	C	Johns River, unregulated site			X	X	X	X	X	X		USGS	
1	P	C	Hubbard Brook, Woodstock, NH. A gaging site is proposed to that will be cooperatively operated with the USDA Forest Service. The Hubbard Brook Experimental Forest (HBEF) was established in 1955 to improve understanding of watershed management in New England through the establishment of small (<175 ac) gaged watersheds and experiments. The small watershed concept pioneered at HBEF has been an extremely valuable research tool and continues to have high scientific value. However, there is a pressing need to resolve how observations of hydrologic processes translate from small watersheds to river basins in order to address environmental issues at the landscape/management scale. The proposed gage location drains a 100% forested watershed that is about 8000 acres in the southern White Mountains – currently smaller than any other gage in NH. The site is 740 ft in elevation and situated in deep water-worked glacial deposits; however, the control channel section is largely bedrock. This proposed site would be instrumental in developing an understanding a predicting in ungaged basins due to its size (intermediate between the HBEF small	X								X	X	PSU

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

Appendix A – Table 3 – Data uses of Proposed Gages

			watersheds and typical USGS gages) and the wealth of sub-basin research history.									
3	P	C	There are several short segments on the Contoocook that are not well covered with a gage. Also, there are many water users on this river: there are several dams that cause ungaged variations in river flows.				X	X				DES WMB ISF
3	P	C	Beards Br. former USGS gage 1084500, >25 - 80 mi ²						X			NH Stream Team
1	P	C	01084500 Beards Bk nr Hillsborough, NH, DA=55.4, unregulated trib to Contoocook			X	X	X	X	X		USGS
1	P	C	1084500 Beards Br. Hillsboro, NH						X	X		NHGS
3	P	C	Located on the North Branch of the Contoocook . Designated River with three water users (two dams and one small user.).				X	X				DES WMB ISF
3	P	C	Contoocook River: Gage needed on North Branch (other segments are currently gaged) <i>Details:</i> N/A (Note: DES high-priority watershed for restoration; "threatened"; number of water users and dams that impact or are impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Anticipated future gage need				X	X	X			RMLAC
3	P	C	W. Br. Warner R. former USGS gage 1085800, 0 - 25 mi ²						X			NH Stream Team
1	P	C	01085800 West Branch Warner River nr Bradford, NH, DA= 5.75, unregulated small watershed			X	X	X	X	X		USGS
1	P	C	1085800 W. Br. Warner R near Bradford, NH						X	X		NHGS
1	P	C	01088000 Contoocook River nr Penacook, NH, DA=766, nr mouth, NH Designated River	X	X	X	X	X	X	X	X	USGS
3	P	C	There are several short segments on the Contoocook that are not well covered with a gage. Also, there are many water users on this river: there are several dams that cause ungaged variations in river flows.				X	X				DES WMB ISF
1	P	C	Add average daily Q at the Merrimack River at Concord, NH gage, which is currently stage only. Supports flow assessments related to the PSNH Amoskeag releases.				X					DES WMB Ambient and 401
3	P	C	Located on the Merrimack River near Concord. There are many large withdrawals and returns the closest gages are at Franklin and Manchester.				X	X				DES WMB ISF

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

Appendix A – Table 3 – Data uses of Proposed Gages

3	P	C	Merrimack River: Gage needed in Concord area (Franklin/Manchester = nearest gages) <i>Details:</i> N/A (Note: DES high-priority watershed for restoration; "threatened"; many water users in this area that impact or are impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Anticipated future gage need - possible upgrade to stage-only station in Concord					X	X	X			RMLAC
1	P	C	Suncook River (reactivate gage in North Chichester or install new one in Pittsfield upstream of POTW). Need is related to NPDES permitting and compliance issues with the Pittsfield POTW. Recent flooding issues should also justify gage.			X	X			X		X	DES - Wastewater Engineering Bureau
1	P	C	Suncook River, Allenstown/Epsom/Pittsfield area, regulated stream with possible water uses throughout	X	X	X	X	X	X	X	X	X	USGS
3	P	C	S.B. Piscataquog R. former USGS gage 1091000, >80 - 150 mi ²							x			NH Stream Team
1	P	C	South and/or Middle Branches of the Piscataquog River, mostly unregulated, NH Designated River	X		X	X	X	X	X	X		USGS
1	P	C	South One or more gages located on any of the three branches and main stem of the Piscataquog River system. No continuous record gages on any of the three Designated branches or Designated main stem--two partial record gages near dams that provide high flow information. Middle Branch has no registered water users and one active dam and may represent a relatively unimpacted river segment. North Branch, South Branch, and main stem all do have some registered water users. All three branches are partly or completely classified as Natural under the Rivers Management and Protection Program.					X	X				DES WMB ISF
1	P	C	SB Piscataquog gage is of interest as it was a basis for our flow policy (ABF).						X				USF&W
1	P	C	SB Piscataquog River: At least one gage needed (two PR gages at present) <i>Details:</i> N/A (Note: DES high-priority watershed for restoration; "threatened"; number of water users and dams that impact or are impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Currently needed gage(s) - possible upgrade/replacement of partial record gage(s) - consider each of three branches plus main stem	X?	X?	X	X	X	X	X	X	X	RMLAC
1	P	C	1091000 S.B. Piscataquog R. near Goffstown, NH							X	X		NHGS

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

Appendix A – Table 3 – Data uses of Proposed Gages

1			South and/or Middle Branches of the Piscataquog River, mostly unregulated, NH Designated River	X		X	X	X	X	X		USGS
1	P	C	Middle - One or more gages located on any of the three branches and main stem of the Piscataquog River system. No continuous record gages on any of the three Designated branches or Designated main stem--two partial record gages near dams that provide high flow information. Middle Branch has no registered water users and one active dam and may represent a relatively unimpacted river segment. North Branch, South Branch, and main stem all do have some registered water users. All three branches are partly or completely classified as Natural under the Rivers Management and Protection Program.				X	X				DES WMB ISF
1	P	C	Middle Branch Piscataquog River: At least one gage needed (two PR gages at present) <i>Details:</i> N/A (Note: DES high-priority watershed for restoration; "threatened"; number of water users and dams that impact or are impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Currently needed gage(s) - possible upgrade/replacement of partial record gage(s) - consider each of three branches plus main stem	X?	X?	X	X	X	X	X	X	RMLAC
1	P	C	North Branch River, natural watershed, NH Designated River	X		X	X	X	X	X		USGS
1	P	C	North One or more gages located on any of the three branches and main stem of the Piscataquog River system. No continuous record gages on any of the three Designated branches or Designated main stem--two partial record gages near dams that provide high flow information. Middle Branch has no registered water users and one active dam and may represent a relatively unimpacted river segment. North Branch, South Branch, and main stem all do have some registered water users. All three branches are partly or completely classified as Natural under the Rivers Management and Protection Program.				X	X				DES WMB ISF
1	P	C	NB Piscataquog River: At least one gage needed (two PR gages at present) <i>Details:</i> N/A (Note: DES high-priority watershed for restoration; "threatened"; number of water users and dams that impact or are impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Currently needed gage(s) - possible upgrade/replacement of partial record gage(s) - consider each of three branches plus main stem	X?	X?	X	X	X	X	X	X	RMLAC

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

Appendix A – Table 3 – Data uses of Proposed Gages

1	P	C	One or more gages located on any of the three branches and main stem of the Piscataquog River system. No continuous record gages on any of the three Designated branches or Designated main stem --two partial record gages near dams that provide high flow in										DES WMB ISF
1	P	C	Piscataquog River: At least one gage needed (two PR gages at present) <i>Details:</i> N/A (Note: DES high-priority watershed for restoration; "threatened"; number of water users and dams that impact or are impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Currently needed gage(s) - possible upgrade/replacement of partial record gage(s) - consider each of three branches plus main stem	X?	X?	X	X	X	X	X	X	X	RMLAC
1	P	C	Souhegan River in Wilton area. Need is related to NPDES permitting and compliance issues with the Greenville POTW and the Milford POTW			X	X		X			X	DES - Wastewater Engineering Bureau
1	P	C	Souhegan River, above Milford, headwater site, some regulation and water uses above and below	X	X	X	X	X	X	X	X		USGS
1	P	C	Located on the upper Souhegan to support the Water Management Plan under the Instream Flow Pilot Program. Several registered water users. The existing gage is low in the watershed and should be supported by a gage in the upper part of the watershed with				X	X					DES WMB ISF
1	P	C	Upper Souhegan River near Greenville, NH, replace Stoney Brook			X		X					Consulting (NAI)
3	P	C	Souhegan River: Gage needed on upper river (lower river is currently gaged) <i>Details:</i> N/A (Note: DES high-priority watershed for restoration; "threatened"; inadequate drainage area coverage on upper river and a number of water users that impact or are impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Anticipated future gage need				X	X	X				RMLAC
3	P	C	Stony Br. Trib. former USGS gage 1093800, 0 - 25 mi ²						X				NH Stream Team
1	P	C	01093800 Stony Brook Tributary nr Temple, NH, DA=3.6, unregulated trib. To Souhegan			X	X	X	X	X	X		USGS
1	P	C	1093800 Stony Br. Trib. near Temple, NH						X	X			NHGS

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

Appendix A – Table 3 – Data uses of Proposed Gages

1	P	C	Beaver Brook - Derry - Water chemistry loading assessments for chloride related to I-93				X					DES WMB Ambient and 401
3	P	C	Stevens Br. former USGS gage 1075800, 0 - 25 mi ²						X			NH Stream Team
1	P	C	1075800 Stevens Br. Wentworth, NH						X	X		NHGS
3	T	C	01075500 Baker River nr Wentworth, NH, DA=58.8, unregulated watershed.	X		X		X	X	X		USGS
1	P	C	Powwow River, Kingston/South Hampton area, regulated stream	X	X	X	X	X	X	X	X	USGS
3	P	C	Mad River in Waterville Valley. Need is related to NPDES permitting and compliance issues with the Waterville Valley POTW			X	X		X		X	DES - Wastewater Engineering Bureau
1	P	C	Mad River, Thornton/Waterville Valley area, unregulated watershed			X	X	X	X	X		USGS
3	P	C	Cockermouth River, natural watershed, inflow to Newfound lake	X	X	X	X	X	X	X		USGS
3	P	C	Ellis R. former USGS gage 1064300, 0 - 25 mi ²						x			NH Stream Team
1	P	C	01064300 Ellis River nr Jackson, NH, DA=10.9, unregulated, small high elevation watershed			X		X	X	X		USGS
1	P	C	1064300 Ellis R. near Jackson, NH						X	X		NHGS
3	P	C	Rocky Branch, unregulated watershed and trib. to Saco R near N Conway			X		X	X	X		USGS
3	P	C	Located on the upper Saco River. Several water user in the lower third of the ungaged, upper 21 miles of the Designated River that would be better supported by a gage in that reach.				X	X				DES WMB ISF
3	P	C	Saco River: Gage needed on upper river (one gage currently in Conway) <i>Details:</i> N/A (Note: DES high-priority watershed for protection and restoration; inadequate drainage area coverage on upper river and a number of water users that impact or are impacted by flow regime according to DES) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Anticipated future gage need				X	X	X			RMLAC
1	P	C	Swift River near Conway, NH			X		X	X	X		Consulting (NAI)
3	P	C	Swift River, unregulated watershed and trib. To Saco R near Conway			X		X	X	X		USGS

* Priority ranking: 1 = Currently needed, 2 = Replaces a less adequate gage; 3 = Anticipated future need

Appendix A – Table 3 – Data uses of Proposed Gages

1	P	C	<p>Swift River: At least one gage needed (no gages at present) <i>Details:</i> N/A (Note: DES high-priority watershed for protection) <i>Purpose:</i> Monitor flow on Designated river <i>Need:</i> Currently needed gage(s)</p>	X?	X?	X	X	X	X	X	X	RMLAC
1	P	C	<p>Located on the Swift River. Very little water use and no dams. Higher precipitation watershed fills gap in this coverage.</p>				X	X				DES WMB ISF
3	P	C	<p>Lucy Br. former USGS gage 1064400, 0 - 25 mi²</p>						X			NH Stream Team
1	P	C	<p>1064400 Lucy Br. near No. Conway, NH</p>						X	X		NHGS
3	P	C	<p>Wild R. former USGS gage 1054175, >25 - 80 mi² Gilead Maine</p>						X			NH Stream Team
3	P	C	<p>Moss Br. former USGS gage 1165500, 0 - 25 mi² Wendell Depot MA</p>						X			NH Stream Team

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Appendix A – HUC-10 Index Key

Table A4-HUC-10 Index Key		
HUC Index	USGS HUC_10	HUC_10_NAME
A1	0104000102	UMBAGOG LAKE DRAINAGE
A2	0104000103	AZISCOHOS LAKE DRAINAGE
A3	0104000104	MAGALLOWAY RIVER
A4	0104000105	CLEAR STREAM
A5	0104000106	MIDDLE ANDROSCOGGIN RIVER
A6	0104000201	GORHAM-SHELBURNE TRIBUTARIES
A7	0104000202	ANDROSCOGGIN RIVER AT RUMFORD POINT
C1	0106000304	SALMON FALLS RIVER
C2	0106000306	COCHECO RIVER
C3	0106000307	LAMPREY RIVER
C4	0106000308	EXETER RIVER
C5	0106000309	GREAT BAY DRAINAGE
C6	0106000310	COASTAL DRAINAGE
Ct1	0108010101	CONNECTICUT LAKES DRAINAGE
Ct10	0108010302	CONNECTICUT RIVER-JOHNS RIVER TO AMMONOOSUC RIVER
Ct11	0108010303	GALE RIVER
Ct12	0108010304	AMMONOOSUC RIVER
Ct13	0108010305	LOWER AMMONOOSUC RIVER
Ct14	0108010307	CONNECTICUT RIVER-AMMONOOSUC RIVER TO WAITS RIVER
Ct15	0108010402	CONNECTICUT RIVER-WAITS RIVER TO HEWES BROOK
Ct16	0108010404	CONNECTICUT RIVER-OMPOMPANOOSUC RIVER TO WHITE RIVER
Ct17	0108010601	MASCOMA RIVER
Ct18	0108010603	CONNECTICUT RIVER-WHITE RIVER TO SUGAR RIVER
Ct19	0108010604	SUGAR RIVER
Ct2	0108010102	HEADWATER TRIBUTARIES
Ct20	0108010607	CONNECTICUT RIVER-SUGAR RIVER TO BELLOWS FALLS
Ct21	0108010702	COLD RIVER
Ct22	0108010705	CONNECTICUT RIVER-BELLOWS FALLS TO VERNON DAM
Ct23	0108020101	UPPER ASHUELOT RIVER
Ct24	0108020102	THE BRANCH
Ct25	0108020103	MIDDLE ASHUELOT RIVER
Ct26	0108020104	LOWER ASHUELOT RIVER
Ct27	0108020105	CONNECTICUT RIVER-VERNON DAM TO DEERFIELD RIVER
Ct28	0108020201	UPPER MILLERS RIVER
Ct29	0108020202	LOWER MILLERS RIVER
Ct3	0108010103	MOHAWK RIVER-STEWARTSTOWN TRIBUTARIES
Ct4	0108010104	CONNECTICUT RIVER-MOHAWK RIVER TO NULHEGAN RIVER
Ct5	0108010106	CONNECTICUT RIVER-NULHEGAN RIVER TO UPPER AMMONOOSUC RIVER
Ct6	0108010107	UPPER AMMONOOSUC RIVER
Ct7	0108010108	ISRAEL RIVER

Appendix A – HUC-10 Index Key

Ct8	0108010109	CONNECTICUT RIVER-UPPER AMMONOOSUC RIVER TO JOHNS RIVER
Ct9	0108010301	JOHNS RIVER
M1	0107000101	EAST BRANCH PEMIGEWASSET RIVER
M10	0107000202	WINNIPESAUKEE RIVER
M11	0107000301	UPPER CONTOOCCOOK RIVER
M12	0107000302	NORTH BRANCH
M13	0107000303	WARNER RIVER
M14	0107000304	BLACKWATER RIVER
M15	0107000305	LOWER CONTOOCCOOK RIVER
M16	0107000403	SQUANNACOOK RIVER
M17	0107000404	NASHUA RIVER-SQUANNACOOK RIVER TO MOUTH
M18	0107000601	UPPER MERRIMACK RIVER
M19	0107000602	SOUCOOK RIVER
M2	0107000102	UPPER PEMIGEWASSET RIVER
M20	0107000603	CONCORD TRIBUTARIES
M21	0107000604	UPPER SUNCOOK RIVER
M22	0107000605	SUNCOOK RIVER
M23	0107000606	PISCATAQUOG RIVER
M24	0107000607	COHAS BROOK
M25	0107000608	MANCHESTER TRIBUTARIES
M26	0107000609	SOUHEGAN RIVER
M27	0107000610	LITCHFIELD-HUDSON TRIBUTARIES
M28	0107000611	SPICKETT RIVER
M29	0107000612	MERRIMACK RIVER-NASHUA RIVER TO SHAWSHEEN RIVER
M3	0107000103	BAKER RIVER
M30	0107000614	MERRIMACK RIVER-SHAWSHEEN RIVER TO MOUTH
M4	0107000104	MIDDLE PEMIGEWASSET RIVER
M5	0107000105	SQUAM RIVER
M6	0107000106	NEWFOUND RIVER
M7	0107000107	SMITH RIVER
M8	0107000108	LOWER PEMIGEWASSET RIVER
M9	0107000201	LAKE WINNIPESAUKEE DRAINAGE
S1	0106000201	UPPER SACO RIVER
S2	0106000202	SWIFT RIVER
S3	0106000203	CONWAY TRIBUTARIES
S4	0106000204	SACO RIVER-LOVEWELL POND
S5	0106000206	BEARCAMP RIVER
S6	0106000207	PINE RIVER
S7	0106000208	OSSIPEE LAKE DRAINAGE
S8	0106000209	OSSIPEE RIVER
S9	0106000210	LITTLE OSSIPEE RIVER