APPENDIX A.

BIOASSESSMENT PROGRAMS FOR STREAMS AND WADEABLE RIVERS (2001)

Appendix A. Bioassessment programs for streams and wadeable rivers (2001)

Entity	Stream/river miles		Number of miles assessed using biology				Assemblages assessed				Habitat assessment	Reference site determination	Characterization of regional reference sites	Data analysis tools & methods	Impairment thresholds	Bioassessment uses				Other waterbody types with biological programs
Name	Total miles	Perennial miles	Total miles assessed	fully supporting for 305(b)	partially/non-supporting for 305(b)	listed for 303(d)	Benthos	Fish	Periphyton	Other	VB = visual based; QM = quantitative measurements; HY = hydrogeomorphology; O = other	SS = site specific; PW = paired watersheds; R =regional; PJ = professional judgment; O = other	HC = historical conditions; LD = least disturbed sites; GR = gradient response; PJ = professional judgment; MD = minimally disturbed; O = other	TG = tables & graphs; PA = parametric ANOVAs; MV = multivariate; BM = biological metrics; DG = disturbance gradients; O = other	MM = multimetric; MV = multivariate; CDF = cumulative distribution function; O = other	Water resource management	Aquatic Life Use Support (ALUS) in 305(b) reporting	Biocriteria in WQS		LR = large rivers; LK = lakes; RES = reservoirs; ENC = estuaries/ near coastal marine; WL = wetlands
																		Narrative	Numeric	
STATES																				
Alabama	77,274	47,077	7,103.5	5,124.4	1,979.1	1,979.1	Y	Y	N	Y	VB	R	LD	TG, BM	MM - O	Y	Y	N	N	LR, WL
Alaska	>3 million	unknown	150 water-sheds	140 water-sheds	10 water-sheds	10 water-sheds	Y	N	UD	N	VB, HY	SS, PJ	MD	TG, BM	MM - 1st quartile from the 95th %tile	Y	UD	N	N	LR, LK, ENC, WL
Arizona	127,505	4,980	0	n/a	n/a	n/a	Y	N	Y	N	VB, QM, HY	R	LD, PJ, MD	BM	MM - 25th %tile of ref. pop.	Y	N	UD	N	RES (UD)
Arkansas	87,617	28,408	245 stream segments	n/a	n/a	n/a	Y	Y	N	N	VB, QM, HY, O	SS, PW, R, PJ, O	HC, LD, PJ	TG, MV, BM, DG	MM - O	Y	N	Y	N	LR, LK, RES, WL
California	211,513	64,438	unknown	unknown	unknown	unknown	Y	N	N	N	VB	PJ, O	LD	PA, MV, BM	MV - UD	Y	UD	Y	N	LR, LK, ENC (limited)
Colorado	107,403	31,415	n/a	n/a	n/a	85.1	Y	Y	**UD**	N	VB, HY, O	SS, PJ	HC, LD, PJ, O	TG, BM	MM - UD	Y	N	UD	N	LR, LK, RES

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																		Narrative	Numeric	
Connecticut	5,830	5,484	961	764	195	n/a	Y	Y	Y	Y	VB	SS, O	LD	TG, BM	MM - O	Y	Y	Y	N	ENC
Delaware	2,506	1,778	2,506	741	1,765	1,173	Y	N	N	N	VB	R, PJ	LD	BM	MM - 67th %tile of ref. pop.	Y	N	N	UD	WL
District of Columbia	39	–	39	0	39	unknown	Y	Y	N	Y	HY	PJ	–	BM	–	Y	Y	Y	N	LR, WL
Florida	51,858	22,993	4,795	4,365	430	430	Y	N	Y	Y	VB	R, PJ	LD, GR	TG, BM, DG	MM - quadra-section of best score	Y	Y	Y	Y	LR, LK, RES, ENC, WL
Georgia	70,150	44,056	1,416	477	939	–	Y	Y	N	N	VB, O	R	LD	TG, BM	MM - UD, MV - UD	Y	Y	Y	N	LR
Hawai`i	249	249	15	5	10	10	UD	Y	N	N	VB, O	R	LD	TG, BM	MM - UD	Y	UD	UD	UD	–
Idaho	96,200	49,500	16,742	8,434	8,312	8,312	Y	Y	Y	N	VB, O	R, PJ	LD, PJ, MD	TG, PA, MV, BM, DG	MM - 25th %tile of ref. pop.	Y	Y	Y	N	LK, RES
Illinois	86,021	30,246	15,304	9,498	5,806	unknown	Y	Y	N	N	VB, QM	SS, O	HC, LD, PJ	TG, PA, MV, BM, DG, O	MM - O	Y	Y	UD	N	LR
Indiana	35,673	21,094	35,430	23,000	12,430	unknown	Y	Y	Y	Y	VB	R, PJ	HC, LD, GR, O	TG, PA, MV, BM, DG	MM - CDF, O, MV - O	Y	Y	UD	N	LR, LK, RES, WL

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Entity	Stream/river miles		Number of miles assessed using biology				Assemblages assessed				Habitat assessment	Reference site determination	Characterization of regional reference sites	Data analysis tools & methods	Impairment thresholds	Bioassessment uses				Other waterbody types with biological programs
Name	Total miles	Perennial miles	Total miles assessed	fully supporting for 305(b)	partially/non-supporting for 305(b)	listed for 303(d)	Benthos	Fish	Periphyton	Other	VB = visual based; QM = quantitative measurements; HY = hydrogeomorphology; O = other	SS = site specific; PW = paired watersheds; R =regional; PJ = professional judgment; O = other	HC = historical conditions; LD = least disturbed sites; GR = gradient response; PJ = professional judgment; MD = minimally disturbed; O = other	TG = tables & graphs; PA = parametric ANOVAs; MV = multivariate; BM = biological metrics; DG = disturbance gradients; O = other	MM = multimetric; MV = multivariate; CDF = cumulative distribution function; O = other	Water resource management	Aquatic Life Use Support (ALUS) in 305(b) reporting	Biocriteria in WQS		LR = large rivers; LK = lakes; RES = reservoirs; ENC = estuaries/ near coastal marine; WL = wetlands
																		Narrative	Numeric	
Iowa	71,665	26,630	2,018	1,418	600	n/a	Y	Y	N	N	VB, QM	R, PJ	LD	TG, PA, MV, BM, DG	MM - 25th %tile of ref. pop.	Y	Y	UD	N	LR
Kansas	134,338	23,731	23,731	n/a	n/a	n/a	Y	Y	Y	Y	VB, QM	PJ	HC, LD	TG, BM, O	MM - UD	Y	Y	Y	N	LK, RES, WL
Kentucky	89,431	34,334	~30,000	~20,000	~10,000	7,500	Y	Y	Y	N	VB	R	LD, MD	MV, BM	MM - 25th %tile of ref. pop.	Y	Y	Y	N	LR
Louisiana	66,294	–	–	n/a	n/a	n/a	Y	Y	N	N	VB	SS, PJ	HC, LD, O	TG, MV, BM, O	MM - CDF, O	Y	N	Y	N	–
Maine	31,672	23,879	1,000	858.5	141.5	141.5	Y	N	Y	N	VB	R, PJ	LD, GR, PJ, MD	TG, MV, BM, DG	MV	Y	Y	Y	UD	LR, LK (UD), RES, ENC
Maryland	17,000	12,343	6,142	3,429	2,713.4	178 actual listings	Y	Y	N	Y	VB, QM, O	O	LD	TG, PA, MV, BM, DG, O	MM - 10th %tile	Y	Y	UD	N	ENC
Massachusetts	8,229	7,133	1,344	649	695	695	Y	Y	Y	Y	VB	SS, PW, R, PJ	LD	TG, BM	MM - 83rd %tile of ref. pop.	Y	Y	N	N	LK, RES
Michigan	49,141	27,873	21,469	15,469	6,000	2,600	Y	Y	N	N	VB	SS	n/a	TG, BM	MM - O	Y	Y	N	N	LR
Minnesota	91,944	32,985	2,047	1,575	472	785	Y	Y	N	Y	QM	R, PJ	LD, O	TG, BM, DG	MM - O	Y	Y	Y	N	LR, LK, RES, WL

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Mississippi	84,003	26,454	1,365	505	860	860	Y	N	N	N	VB, O	R	LD	TG, MV, BM, DG	MM - UD	Y	Y	N	N	LR, LK, ENC
Missouri	52,194	22,194	21,996	11,519	10,477	n/a	Y	Y	N	N	VB, QM, O	SS, R, PJ, O	LD, MD	TG, PA, MV, BM	MM - cumulative score = 81% of ref. condition	Y	Y	Y	UD	LR
Montana	176,750	53,221	9,076	1,340	7,736	7,736	Y	Y	Y	Y	VB, QM, HY, O	SS, R, PJ	HC, LD, PJ, MD	TG, PA, MV, BM, DG	MM - 75% of ref. condition	Y	UD	UD	N	LR, LK, RES
Nebraska	81,573	16,090	16,314	13,867	2,447	0	Y	Y	N	N	VB, QM	SS, R, PJ	LD, O	TG, PA, BM	MM - 25th %tile of ref. pop.	Y	Y	Y	N	LK, RES , WL
Nevada	143,578	14,988	602	0	0	0	Y	N	UD	N	VB, QM, O	SS, PW, R, PJ (all UD)	HC, LD, PJ (all UD)	TG, MV, BM (UD), DG	–	Y	UD	UD	N	RES
New Hampshire	10,881	8,636	400	389	11	0	Y	Y	N	Y	VB	SS, PJ	n/a	TG, BM	–	Y	Y	Y	UD	LK, WL
New Jersey	6,500	–	330	121	209	–	Y	Y	N	N	VB	R, PJ	LD	BM	MM - USEPA RBPs	Y	Y	N	N	LK, ENC (all UD)
New Mexico	110,741	8,682	~5,875	~3,200	~2,675	UD	Y	Y	Y	Y	VB, HY, O	PJ	n/a	TG, BM	MM - 95th %tile of ref. pop.	Y	Y	**N**	N	LR, LK

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New York	52,337	46,266	16,000	15,430	570	484	Y	Y	Y	N	QM	SS	n/a	TG, BM, O	MM - 75th %tile of all sites	Y	Y	N	N	–
North Carolina	37,662	–	32,072	29,929	2,143	2,143	Y	Y	Y	Y	VB	R	LD	TG, PA, BM, DG	MM - O	Y	Y	Y	N	WL, RES
North Dakota	54,427	unknown	14,426	9,923	4,503	–	Y	Y	Y	N	VB, HY	R	LD	TG, BM, DG	MM - O	Y	Y	Y	N	–
Ohio	29,113	29,113	9,535	5,204	4,331	2,052	Y	Y	N	N	VB	R	LD	TG, BM	MM - 25th & 75th %tile of ref. pop.	Y	Y	Y	Y	LR, LK, RES, WL
Oklahoma	78, 778	22,386	13,313	UD	UD	UD	Y	Y	N	N	QM	R, O	LD	TG, BM	MM - CDF	Y	UD	Y	Y	UD
Oregon	114,823	51,695	40,188	12,056	28,132	unknown	Y	Y	Y	Y	QM	R, PJ, O	LD, MD	TG, PA, MV, BM, DG	MM - CDF, MV	Y	Y	Y	UD	LR, ENC
Pennsylvania	83,000	–	45,000	36,900	8,100	8,100	Y	Y	N	Y	VB	PW, R	MD	TG, PA, MV, BM, DG	MM - UD	Y	Y	N	N	LR, LK, ENC, WL
Rhode Island	1,498	979	272.8	188.1	84.7	78.5	Y	N	N	Y	VB	SS, PJ	HC, MD	TG, BM	MM - 75th %tile of ref. pop.	Y	Y	Y	N	–
South Carolina	35,461	25,729	**678.6**	**563.98**	**114.6**	**114.6**	Y	N	N	N	VB	R	LD	TG, BM	MM - CDF	Y	Y	Y	N	LR

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South Dakota	9,937	1,932	3.73	n/a	n/a	n/a	Y	N	Y	N	VB, QM, HY	PJ (UD)	LD (UD)	TG, BM	MM - 25th %tile of ref. pop.	Y	N	Y	N	LR, LK, RES
Tennessee	60,187	–	24,233	16,693	7,540	14,333	Y	N	N	N	VB	R	LD	TG,PA, MV, BM	MM - 25% of 90th %tile of ref. pop.	Y	Y	Y	UD	–
Texas	191,228	40,194	266.9	196.1	70.8	–	Y	Y	N	N	QM	SS, PW, R, PJ	LD	TG, PA, BM	MM - 50th %tile of ref. pop.	Y	Y	Y	N	LR, ENC, WL
Utah	85,916	14,000+	705	75	630	300	Y	N	UD	N	QM, O	n/a	n/a	TG, BM, O	–	Y	N	N	N	LK, RES
Vermont	7,099	7,099	~800	~650	~150	~150	Y	Y	Y	N	VB, HY, O	SS, R, PJ	HC, PJ, MD	TG, PA, MV, BM	MM - CDF	Y	Y	Y	N	–
Virginia	50,329	50,329	15,540.4	13,321.9	2,218.5	2,218.5	Y	N	N	N	VB	SS, PW, PJ	–	TG	–	Y	Y	N	N	LK
Washington	73,886	39,483	3,275	982.5	2,292.5	0	Y	Y	Y	Y	VB, QM, HY	R, PJ	HC, LD, MD	TG, MV, BM	MM - 25th %tile of ref. pop.	Y	Y	UD	N	–
West Virginia	32,278	21,114	5,745	3,706	2,039	1,315	Y	Y	N	N	VB, QM, O	R, PJ	MD	TG, BM	MM - 5th %tile of ref. pop.	Y	Y	N	N	–
Wisconsin	55,000	32,000	24,422	7,989	12,028	–	Y	Y	Y	N	QM	SS, R	LD, PJ, O	TG, PA, MV, BM, DG	MM - 25th %tile of ref. pop.	Y	Y	N	N	LR, LK, RES, WL

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Wyoming	113,422	32,520	2,639	2,124	177	177	Y	N	UD	N	VB, QM, HY,	R, PJ	LD, PJ	MV (UD), TG,	MM - 25th %tile	Y	Y	**Y**	UD	LR, LK,
TERRITORIES																				
American Samoa	–	–	–	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	N	N	N	N	–
Commonwealth of Northern Mariana Islands (CNMI)	–	–	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	N	N	**N**	N	ENC
Puerto Rico	5,394.2	–	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	UD	N	N	N	–
U.S. Virgin Islands	–	–	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	N	N	N	N	–
TRIBES																				
Confederated Tribes of the Colville Res.	–	–	–	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	N	N	N	N	–
Nez Perce Tribe	–	–	–	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	UD	n/a	n/a	n/a	–
Oneida Nation of Wisconsin	233	–	–	n/a	n/a	n/a	Y	Y	N	N	VB, QM	PJ	LD	TG, PA, BM	MM	Y	n/a	n/a	n/a	LR, LK, WL

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Passamaquoddy Tribe, Pleasant Point Res.	–	–	–	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	N	n/a	n/a	n/a	ENC
Pyramid Lake Paiute Tribe	–	–	31+	–	–	–	Y	Y	Y	N	VB, QM	PJ	HC, PJ	UD	UD	Y	n/a	UD	UD	LK
Seminole Tribe of Florida	–	–	–	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	N	N	N	N	–
INTERSTATE COMMISSIONS																				
DRBC	200	–	200	n/a	n/a	n/a	Y	Y	N	Y	VB, HY, O	R, O	HC, LD	TG, BM	–	Y	n/a	Y	Y	LR
ICPRB	383	–	n/a	n/a	n/a	n/a	Y	Y	N	Y	VB	R	LD, GR	TG, PA, MV, BM	MM - UD	Y	n/a	n/a	n/a	–
ORSANCO	981	–	981	974	7	55	Y	Y	N	N	O	SS, R, PJ	LD	TG, PA, MV, BM, DG	MM - 25th %tile of ref. pop.	Y	Y	Y	UD	LR
SRBC	31,193	–	3,520	2,525	995	n/a	Y	N	N	N	VB	R, PJ	LD	TG, BM	MM - O	Y	Y	n/a	n/a	LR

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