				1										
OE Indicator Name	ROE Figure Caption	Media	Ecosystem	Type of data provided (units)	Class type	Class bins	Discussion location in this report	Data location in this report	Extent of data	Original data source (reference <sup>1</sup> )	Period of record	Number of sites	2007 aggregation method	Comments
	***************************************			Number of sites within	***************************************	Less than 1				***************************************				
				each class bin of nitrate		mg/L, 1 to less	ROE Indicators for Fresh Surface							
	Nitogen in streams in		1	or total nitrogen <sup>3</sup>			Waters; Nitrogen and Phosphorus							
litrogen and Phosphorus in Streams in Agricultural	agricultural watersheds of the	0.		concentration in stream-		6 to 10 mg/L, 10	n Streams in Agricultural						Flow-weighted mean annual	
Vatersheds	contiguous U.S., 1992-2001.	Streams	Agricultural	water samples (percent)	Concentration	mg/L or more	watersheds	Appendix 2	Contiguous U.S.	Nutrients (13)	WY 1992-2001	nitrogen	concentration	
				Number of sites within each class bin of		Less than 0.1 mg/L, 0.1 to less								
				orthophosphate or total			ROE Indicators for Fresh Surface							
	Phosphorus in streams in			phosphorus <sup>4</sup>		0.3 to less than	Waters; Nitrogen and Phosphorus							
litrogen and Phosphorus in Streams in Agricultural Vatersheds	agricultural watersheds of the contiguous U.S., 1992-2001.	Streams		concentration in stream- water samples (percent)	Concentration	0.5 mg/L, 0.5 mg/L or more	n Streams in Agricultural Watersheds	Appendix 2	Contiguous U.S.	Nutrients (13)	WY 1992-2001	for total phosphorus	Flow-weighted mean annual concentration	
				Estimated nitrate load for					Mississippi R., St. Lawrence R.,	Mississippi R. 1955-1967, (7); Mississippi R.			Mississippi R. calculated using 2 methods (see	
				4 major U.S. rivers			ROE Indicators for Fresh Surface			1968-2004, Brent A. Aulenbach (U.S. Geologic	a Mississippi R., 1955-2004; St. Lawrence R., 1976	<b>-</b>	comments), Other Rivers	Mississippi R. loads were based on composite samples for 1955-1967, and load estimates u
trogen and Phosphorus Discharge from Large	Nitrate discharge from four			(thousand long tons of		į į	Waters; Discharge from Large		Columbia R.	Survey, written commun., 2007); St. Lawrence	2004; Susquehanna R., 1974-2004; Columbia R.		calculated using LOADEST	LOADEST code for 1968-2004. The other 3 river loads were estimated using LOADEST code
vers	major U.S. rivers, 1955-2004.	Streams	National	nitrate per year)	NA	NA	Rivers	Appendixes 3 and 4	watersheds	R., Susquehanna R., and Columbia R., (1)	1974-2004	4	software.	the entire period of record for both the 2002 and 2007 analyses.
				Estimated total					Mari I I D. O.					
				phosphorus <sup>4</sup> load for 4					Mississippi R., St. Lawrence R.,	Mississippi R. 1971-2004, Brent A. Aulenbach			Mississippi R. calculated using 2 methods (see	
	Total phosphorus discharge			major U.S. rivers			ROE Indicators for Fresh Surface		Susquehanna R., and	(U.S. Geological Survey, written commun.,	Mississippi R., 1955-2004; St. Lawrence R., 1976		comments), Other Rivers	
itrogen and Phosphorus Discharge from Large	from four major U.S. rivers, 1971-2004.	Stroomo	National	(thousand long tons of	NA		Waters; Discharge from Large Rivers	Appendium 2 and 4	Columbia R. watersheds	2007); St. Lawrence R., Susquehanna R., and Columbia R., (1)	2004; Susquehanna R., 1974-2004; Columbia R. 1974-2004		calculated using LOADEST software.	All river leads were estimated using LOADEST ands for the entire paried of record
Vels	1971-2004.	Streams	National	total phosphorus per year)	NA .	INA	Nivers	Appendixes 3 and 4	Watersneus	Columbia K., (1)	1974-2004	*	SUILWAIE.	All river loads were estimated using LOADEST code for the entire period of record.
													Used data from the 12-month	
	No figure for pesticide			Number of sites within each class bin of pesticide			ROE Indicators for Fresh Surface						period at each site with the most samples collected and	
	occurrence; data provided to			detections in stream-water			Waters; Pesticides in Streams in			Pesticides (5) and (Jeffrey D. Martin, U.S.			the most pesticides (Gilliom	
esticides in Streams in Agricultural Watersheds	USEPA for ROE.	Streams	Agricultural	samples (percent)	Number of detections	5 or more	Agricultural Watersheds	Appendix 5	Contiguous U.S.	Geological Survey, written commun., 2006)	WY 1992-2001	83	and others, 2006).	
				Number of sites within									F	
				each class bin exceeding									Exceedances based on human-health benchmarks	
				human-health and aquatic-		0, 1, 2 or 3, 4 or							for 73 of the 83 pesticide	
	Pesticides in streams in agricultural watersheds of the			life benchmarks⁵ for pesticides in stream-water			ROE Indicators for Fresh Surface Waters; Pesticides in Streams in			Pesticides (5) and (Jeffrey D. Martin, U.S. Geological Survey, Indianapolis, Ind., written				Time-weighted mean concentration of pesticides compared to human-health benchmarks. Ai life benchmarks for pesticides compared to time-weighted mean, moving-day average, or inc
esticides in Streams in Agricultural Watersheds	contiguous U.S., 1992-2001.	Streams	Agricultural	samples (percent)	Number of exceedances		Agricultural Watersheds	Appendixes 6, 7, and 8	Contiguous U.S.	commun., 2006)	WY 1992-2001	83		sample concentrations depending on the benchmark.
						Less than 2								
				No contract of alternativity in		mg/L, 2 to less								
	Nitrate in shallow ground water in agricultural			Number of sites within each class bin of nitrate			ROE Indicators for Ground Waters; Nitrate and Pesticides in							
	watersheds of the contiguous			concentration in ground-		mg/L, 10 mg/L or	Shallow Ground Water in			Nutrients (Bernard T. Nolan, U.S. Geological				
gricultural Waterhseds	U.S., 1992-2003.	Ground Water	Agricultural	water samples (percent)	Concentration	more	Agricultural Watersheds	Appendix 9	Contiguous U.S.	Survey, written commun., 2006)	WY 1992-2003	1,423	Single sample per site	Data from NAWQA Cycle I Agricultural Land-use Studies
				L										
	Pesticides in shallow ground water in agricultural			Number of sites within each class bin of pesticide			ROE Indicators for Ground Waters; Nitrate and Pesticides in							
litrate and Pesticides in Shallow Ground Water in	watersheds of the contiguous			detections in ground-water			Shallow Ground Water in							
gricultural Waterhseds	U.S., 1993-2003	Ground Water	Agricultural	samples (percent)	Number of detections	5 or more	Agricultural Watersheds	Appendix 10	Contiguous U.S.	Pesticides (5)	WY 1993-2003	1,412	Single sample per site	Data from NAWQA Cycle I Agricultural Land-use Studies
				Number of sites within										
				each class bin exceeding										
	No figure for pesticide exceedence of human-health			human-health benchmarks <sup>5</sup> for			ROE Indicators for Ground Waters; Nitrate and Pesticides in						Exceedances based on human-health benchmarks	
	benchmarks; data provided to			pesticides in ground-water		0, 1, 2 or 3, 4 or	Shallow Ground Water in						for 73 of the 83 pesticide	
gricultural Waterhseds	USEPA for ROE.	Ground Water	Agricultural	samples (percent)	Number of exceedances	more	Agricultural Watersheds	Appendixes 10, 11, and 12	Contiguous U.S.	Pesticides (5)	WY 1993-2003			Data from NAWQA Cycle I Agricultural Land-use Studies
Number in parenthesis indicates the citation referen	ce number in the Reference section of	f this report	İ	1					-			<u> </u>		
number in parentnesis indicates the citation referen	oo namaa iii iile relelelike Sectioli o	r uno ropolit.							<u> </u>		<u> </u>	<b>†</b>		
nitrate, organic nitrogen, nitrite, and ammonia comp	ounds													
orthophosphate, organic phosphorus, and mineral														

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