

Crosswalk of Office of Water Environmental Indicators and Prospective Indicators for Performance Partnership Agreements--State Environmental Goals and Indicators Project, August 15, 1995

<i>Indicators in italics will not be reported by the Office of Water</i>				
State Environmental Goals and Indicators Project Indicator Types				
Type A-1: Indicators that are based in national data sets, have known metadata, meet essential indicator criteria, and are comparable across all 50 states				
Type A-2: Indicators that are based in national data sets, have known metadata at the state level, that are appropriate at the state level, and are not comparable across the states				
Type A-3: Indicators that are based in data sets available to less than 50 states, have known metadata that meet essential indicator selection criteria and that are comparable across the states				
Type A-4: Indicators that have uncertain or unknown metadata				
Type A-5: Indicators that reflect administrative, activity, or program measurements that can be used as surrogates where true environmental measures for a particular issue or concern do not exist				
Type B: Indicators that are presently feasible, but cannot be provided due to inordinate cost, analytical complexity, or time constraint				
Type C: Prospective indicators for which there is no reasonable prospect of development without some extraordinary expenditure of resources				
Hierarchy of Indicators: Level 1--regulatory agency actions; Level 2--responses of regulated community; Level 3--discharge or emission quantities; Level 4--ambient conditions; Level 5--uptake and/or assimilation; Level 6--health and ecological effects				
Pressure-State-Response Framework: Pressures = Level 3; State = Levels 4,5,6; Response = Levels 1,2				
Office of Water Environmental Indicators, August 10, 1995	Comparable Prospective Indicators for Performance Partnership Agreements, August 15, 1995	Indicator Type	Data Source	Comments on Data Quality and Availability or Indicator Meaning
Source water protection	Percent of community water systems with source water protection programs in place by type of system	Level 2-Response; Type A-3	Biennial Reports of Wellhead Protection Program Progress	Data on wellhead protection is available for 19 states; surface water protection program data is unavailable; indicator is an activity measure
Lead levels in public drinking water systems	Average blood levels in children attributable to drinking water	Level 5-State; Type A-4	Centers for Disease Control	Data attributing average blood lead levels to drinking water is very imprecise; OW considering using alternative indicator
Violations of drinking water standards	Percent of population served by community water systems with no violations of maximum contaminant level standards	Level 4-State; Type-A-1	State Drinking Water Information System	Data reported by State to comply with drinking water regulations

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Fish consumption advisories	Fish consumption advisories by number of advisories and cause of advisory	Level 4-State; Type A-2	Published article	Fish Advisory Data Base will be functional in two months and available at state level
Shellfish bed closures	Pollution sources affecting harvest limited shellfish be acreage	Level 4-State; Type A-3	National Shellfish Register, NOAA	Data should be tied to pollution sources, not used as a measure of water quality; available as published report for 23 coastal states
Species at risk	Comparing the proportion of species "at risk" that are dependent on aquatic or wetland habitats with the percent of species at risk that are dependent on terrestrial habitats	Level 6-State; Type A-1	State Natural Heritage Program Biological and Conservation Data Bases	Available at national and state levels with consistent data entry and data management
Biological integrity of the water	Biological health of rivers and streams--biological integrity assessments	Level 6-State; Type A-3	States	Assessments being undertaken in 47 states
Wetland acreage	Wetland change--acres lost/gained by type of wetland	Level 6-State; Type A-1	National Resources Inventory, NCRS	Available for non-federal land at national, regional and state levels
Wetland acreage	Trends in total wetland acreage	Level 6-State; Type B	U.S. Fish and Wildlife Service; NOAA	USFWS 1990 study on 1780-1980 wetland loss; National Wetlands Inventory not completed in many states; NOAA wetland data for coastal states only
Habitat quality	Ecological integrity/biodiversity	Level 6-State; Type C	Various state and federal sources	Data is both known and uncertain--common measurements not established

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Waters meeting drinking water supply, aquatic life, fish and shellfish consumption, and swimming and secondary contact recreation designated use	Percentage of streams and rivers impaired by pollution; Percentage of lakes impaired by pollution; Rivers/streams/lakes/estuaries (miles/acres/square miles) reported as meeting uses for fishing/swimming/boating or shellfishing	All Level 4-State; Type A-2	State reports that form the Biennial National Water Quality Inventory Report (305(b))	Data available at the state level; national data are not disaggreable to the state level for comparison purposes
Selected ground water quality parameters	No indicator		Federal Reporting Data System	Data from public water supply systems is uneven and not available to the states; lack of a ground water monitoring network; data available in 1996?
Selected surface water quality parameters	Ambient water quality in rivers and streams: exceedences for fecal coliform, dissolved oxygen, total phosphorus	Level 4-State; Type A-1	U.S. Geological Survey	1975-1993 National level unpublished data derived from state-level data reported in Water Data Reports
Contaminated sediments	Sediment contaminants by type having a probability of adverse ecological and/or human health	Level 4-State; Type B	National Sediment Inventory	Data not available until 1996
Nonpoint source loadings to surface and ground water	Nonpoint nutrient and sediment pollution from land uses and by sources	Level 3-Pressure; Type C	?	?
Point source loadings to surface and ground water	Total pounds of toxic chemicals released annually to land and water; Point source loadings to surface and ground water	Both Level 3-Pressure; Type A-1	Toxic Release Inventory	1987-1993 data available at national and state levels
Point source loadings to surface and ground water	Trends in total loadings to waterbodies from sewage treatment plants of major sewage pollutants	Level 3-Pressure; Type A-2	Permit Compliance System	Available at the state level with inconsistent data quality

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Marine debris	Marine debris	Level 3-Pressure; Type B	Center for Marine Conservation Coastal Cleanup Reports	Statistically valid reporting in 1996