

US EPA ARCHIVE DOCUMENT

Annotated Library for Guidance on Ecological Assessments at EPA

This table identifies EPA documents covering science policy, technical methods and tools, and ecological assessment applications and their defining attributes. This table was developed by ecological assessors from across EPA, and an earlier draft appears in appendix C of "Integrating Ecological Assessments and Decision Making at EPA: A Path Forward Results of a Colloquium in Response to Science Advisory Board and National Research Council Recommendations. EPA/100/R-10/004, Dec. 2010

Hyperlinks are provided to each document.

The table is organized into the sections listed below. Select a link to access the documents in that section.

[Agency-wide guidance for human and ecological assessments](#)

[Agency-wide guidance for ecological assessments](#)

[Water program guidance for ecological assessments](#)

[Superfund and RCRA program guidance for ecological assessments](#)

[Pesticides program guidance for ecological assessments](#)

Guide to the Annotated Library Table

Each document is characterized in terms of the assessment components considered (problem formulation, analysis and characterization), corollary issues (stakeholder involvement, risk communication, risk management, ecosystem benefits or services, uncertainty; risk integration); scale (biological and spatial), and the type of assessment considered (condition, causal, predictive, outcome). See the table header below.

Each characteristic is scored as: x = directly addressed, - = touched upon, and blank = not addressed.

A Table of Available Guidance for Ecological Assessments in the EPA (Table Headings)

Document Title	Document Scope		ERA Process Components				Quality	Corollary Issues	Level / Scale	Scope of Guidance	Type of Assessment						
	Science Policy Guidance and other supporting documents Tool	Planning and Scoping	Problem Formulation			Analysis	Risk Characterization	DQOs, QA/QC	Stakeholder Involvement Risk Communication Risk Management Benefit Services Uncertainty Risk Integration	Org Level	Spatial	Chemical Media Receptor General Causal Conditional Predictive Outcome					
			Conceptual Model	Assessment Endpoints	Measures	Hazard / Toxicity Assessment				Exposure Assessment / Analysis	Effects Analysis		Population	General	General	Landscape	Site

Agency-Wide Guidance for Human and Ecological Assessment

Guidance on Cumulative Risk Assessment Part 1 – Planning and Scoping	x	x			x	x	x	x	x	x		-	-			x		x	x						x	-	-	-	
Framework for Cumulative Risk Assessment	x	x			x	x	x	x	x	x		-	-			x		x	x						x	-	-	-	
A Summary of General Assessment Factors for Evaluating the Quality of Scientific and Technical Information	x	x									x																		
Risk Characterization Handbook	x	x								x				-		-		-	x	x					x	-	-	-	-
Guidance for Risk Characterization	x																												
Framework for Metals Risk Assessment	x	x					-	x	x	-		-		-				x	x			x			-	-	-		
Guiding Principles for Monte Carlo Analysis	x	x			-	-	-	x	x	x	x		-	-		x		x	x					x	-	-	x	-	
Probabilistic Analysis in Risk Assessment	x	x			-	-	-	x	x	x	x	-	-	-		x		x	x					x	-	-	x	-	

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			Conceptual Model	Assessment Endpoints	Measures	Hazard / Toxicity Assessment														Exposure Assessment / Analysis	Effects Analysis

Agency-Wide Guidance for Ecological Assessment

Framework for Ecological Risk Assessment	x	x		X	x	x	x	x	x	x	x		-		-				x	x					x	-	-	-	-
Guidelines for Ecological Risk Assessment	x	x		X	x	x	x	x	x	x	x		-	-	-	-			x	x					x	-	-	-	-
Generic Ecological Assessment Endpoints (GEAEs) for Ecological Risk Assessment	x	x			x	x	-							-	-			x	x		x	x			x	-	-	-	-
Stressor Identification Guidance Document	x	x			x	x	x	x					x				x	x	x	x	x				x	x			
Population-level Ecological Risk Assessment																		x											
Framework for Application of the Toxicity Equivalence Factors Methodology for Dioxins, Furans, and Biphenyls in Ecological Risk Assessment.	x	x	-			-	-	x	x	-	-	x					x	-		x	x					-	-	-	-

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Water Program Guidance

[illegible]

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			Conceptual Model	Assessment Endpoints	Measures	Hazard / Toxicity Assessment				Exposure Assessment / Analysis	Effects Analysis		Population	General		
															General	Landscape

Superfund and RCRA Program Guidance

Mid-Atlantic Guidance for RCRA Corrective Action Environmental Indicators.																															
Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Peer Review Draft		x				x	x	x	x	x	x			x		x			x	x						x			-		
Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments. Interim Final		x		x		x	x	x	x	x	x		x		x		-		x			x				x	-	-	-	-	
Guidance for Developing Ecological Soil Screening Levels		x							x										x	x			x						-		
Guidance for Data Useability in Risk Assessment (Part A) April 1992		x	x	x					x				x													x					
Guidance for Data Useability in Risk Assessment (Part B)		x	x	x					x				x													x					
Issuance of Final Guidance: Ecological Risk assessment and Risk Management Principles for Superfund OSWER Directive 9285.728P																															
Ecological Risk Assessment and Risk Management Principles for Superfund Sites (Issuance of Final Guidance)	x	x		-									x	-	-											x					
Eco Update The Role of the BTAGs in Ecological Assessments		x		x		-	-	-	-	-	-															x					

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Superfund and RCRA Program Guidance

[illegible]

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Superfund and RCRA Program Guidance																											

ECO Update Ecological Significance and Selection of Candidate Assessment Endpoints		X		X		X	-																				
ECO Update The role of Screening - Level Risk Assessments and Refining Contaminants of Concern in Baseline Risk Assessments		X		X			X		X	X							X	X					X	-	-	-	-
Eco Update Groundwater Forum Issue Paper Evaluating Ground-Water/Surface-Water Transition Zones in Ecological Risk Assessments		X		X	X			X									X	X					X	-	-		
Revised Interim Soil Lead Guidance																											
Risk Assessment Guidance for Superfund (RAGS): Volume III – Part A, Process for Conducting Probabilistic Risk		X			-	-	-	X	X	X	X			X			X	X					X	-	-	X	-
Memorandum. EPA Risk Characterization Program	X																						X				

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Pesticide Program Guidance																														
Overview of the Ecological Risk Assessment Process in the Office of Pesticide Programs		x				x	x	x	x				-	x	-		x	x								x		-	-	-