

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.

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	Problem Formulation			Analysis						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	Risk Characterization	Population	General								General	Landscape	Site									

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	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									-	-	-	-

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Superfund and RCRA Program Guidance

ECO Update Ecological Significance and Selection of Candidate Assessment Endpoints		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	-	-	-					
ECO Update Groundwater Forum Issue Paper Evaluating Ground-Water/Surface-Water Transition Zones in Ecological Risk Assessments		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	-		
Memorandum. EPA Risk Characterization Program	X																																							X				

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Overview of the Ecological Risk Assessment Process in the Office of Pesticide Programs	X			X	X	X	X	X				-	X	-		X	X						X		-	-	-		

Pesticide Program Guidance