

Model	IndexName	MetricID	MetricName (* "Critical")	Metric Description	Weight	Normalization	P/N	Threshold Method	Very Good-Good	Good-Fair	Fair-Poor	
STREAMS	Water Quality (Weight: 1)	1	Impaired	AMD, TMDL, 303(d) impaired streams	2	miles impaired streams/total stream miles	N	Reference/stressed	0	11.32	78.09	
		8	MedpH*	Median pH values	2	Index for each planning unit	P	Literature	350	250	150	
		16	MedGLIMPSS	Median GLIMPSS scores	2	Index for each planning unit	P	Literature	350	250	150	
		35	Imperv1*	Percent imperviousness	2	mean % imperviousness per planning unit	N	Literature	0	2	8	
		39.2	SurfaceMine1*	Surface mining (active & legacy)	2	% of planning unit	N	Literature/Expert opinion	2	10	20	
		40	UndrgrndMine1	Underground mining	2	% of planning unit	N	Reference/stressed	0	3.82	18.3	
		51.1	NatCoverRip1	Natural cover in riparian area	2	% of planning unit	P	Reference/stressed	99.88	97.01	75.48	
		15	MedSpecCond*	Median specific conductivity values	1.5	Index for each planning unit	P	Literature	350	250	150	
		36	AllWells	All wells	1.5	#/sq mi planning unit	N	Reference/stressed	0	2.2822	5.46936	
		53	AllRdRail	All roads & rail	1.5	miles/sq mi planning unit	N	Reference/stressed	0.1322	1.6582	2.7944	
		10	MedSulfate	Median sulfate values	1	Index for each planning unit	P	Literature	350	250	150	
		19	MedS&E	Median sedimentation & embeddedness	1	median score/planning unit	P	Literature	350	250	150	
		49	AgRip1	Agriculture in riparian area	1	% of riparian area	N	Reference/stressed	0	0.07	0.12	
		50	GrazeRip1	Grazing/pasture in riparian area	1	% of planning unit	N	Reference/stressed	0	1.67	10.31	
		51	DevelopedRip1	Development in riparian area	1	% of planning unit	N	Reference/stressed	0	0.02	2.44	
	Water Quantity (Weight: 1)	62	LQU	Large quantity users	2	#/stream mi	N	Presence/absence	0	0	0	
		67	Imperv2*	Percent imperviousness	1.5	mean % imperviousness per planning unit	N	Literature	0	2	8	
		70	UndrgrndMine2	Underground mining	1.5	% of planning unit	N	Reference/stressed	0	3.82	18.3	
		66	DamDrainage	Dam drainage area	1	% of planning unit	N	Presence/absence	0	0	0	
		69.1	SurfaceMine2	Surface mining (active & legacy)	1	% of planning unit	N	Literature/Expert opinion	2	10	20	
		61	PWS	Public water supply intakes	0.5	#/stream mi	N	Presence/absence	0	0	0	
		65	WWTP	Wastewater treatment plants	0.5	# customers served/sq mi planning unit	N	Presence/absence	0	0	0	
	Hydrologic Connectivity (Weight: 1)	81.1	AllRdRailRip2	All roads & rail in riparian area	2	mi/sq mi planning unit	N	Reference/stressed	0	2.4597	5.97275	
		76	Hdwtrs	Headwater streams (size class 1a)	1.5	# headwater stream miles/total stream mi	P	Presence/absence	0	0	0	
		80	Forestriparea	Forested riparian area	1.5	% of riparian area	P	Reference/stressed	98.73	91.6	56.99	
		81	Dams	Dams	1.5	#/ stream mi	N	Presence/absence	0	0	0	
		77	LocInt	Local integrity score	1	avg score/planning unit	P	Reference/stressed	44.4259	30.3488	20.72249	
		78	WetArea	Total wetland area	1	% of planning unit	P	Presence/absence	0	0	0	
		79	PowPlants	Power plants	0.5	# / stream mi	N	Presence/absence	0	0	0	
	Biodiversity (Weight: 0.5)	84	AllSGNCRip	Rare species in riparian area	1.5	# species/riparian area	P	Presence/absence	0	0	0	
		90	NNISRip	Non-native invasive species in riparian area	1.5	# species/riparian area	N	Presence/absence	0	0	0	
		84.2	MaxTaxa	Maximum taxa	1	maximum # taxa	P	Reference/stressed	27	21	13	
		85	Muss	Mussel streams	1	miles streams/total stream miles	P	Presence/absence	0	0	0	
		87	NEHabRip	Northeast habitat types in riparian area	1	#/riparian area	P	Reference/stressed	6	5	0	
	Riparian Habitat (Weight: 1)	95	NatcoverRip2	Natural cover in riparian area	2	% of riparian area	P	Reference/stressed	99.88	97.01	75.48	
		98.1	ImpervRip*	Percent imperviousness in riparian area	2	% of riparian area	N	Reference/stressed	0	2	8	
		99	ActiveSurfaceRip2*	Active surface mining in riparian area	2	% of riparian area	N	Literature/Expert opinion	2	10	20	
		102	AllRdRailRip3	All roads & rail in riparian area	1.5	miles/sq mi riparian area	N	Reference/stressed	0	2.4597	5.97275	
		17	MedRBP	Median Rapid Bioassessment Protocol score	1	Index for each planning unit	P	Literature	350	250	150	
		96	AgRip2	Agriculture in riparian area	1	% of riparian area	N	Reference/stressed	0	0.07	0.12	
		97	GrazeRip2	Grazing/pasture in riparian area	1	% of riparian area	N	Reference/stressed	0	1.67	10.31	
		100	LegacySurfaceRip	Legacy surface mining in riparian area	1	% of riparian area	N	Literature/Expert opinion	2	10	20	
		101	AllWellsRip	All wells in riparian area	1	#/sq mi riparian area	N	Reference/stressed	0	3.221	5.00348	
		WETLANDS	Water Quality (Weight: 1)	118	NatCoverCatch	Natural cover in wetland catchment	3	% wetland catchment	P	Reference/stressed	98.78	92.97
	110			ForestHdwtrWet1	Forested headwater wetlands	2	% of planning unit	P	Presence/absence	0	0	0
124	ActiveSurfaceCatch			Active surface mining in wetland catchment	2	% wetland catchment	N	Literature/Expert opinion	2	10	20	
114	AgCatch			Agriculture in wetland catchment	1	% wetland catchment	N	Reference/stressed	0	0.01	3.73	
115	GrazeCatch			Grazing/pasture in wetland catchment	1	% wetland catchment	N	Presence/absence	0	0	0	
116	DevelopedCatch			Development in wetland catchment	1	% wetland catchment	N	Reference/stressed	0	0.043	2.17	
120	ImpervCatch			Percent imperviousness in wetland catchment	1	mean % imperviousness wetland catchment	N	Literature	0	2	8	
121	RoadsRRCatch		All roads & rail in wetland catchment	1	# miles/sq mi wetland catchment	N	Presence/absence	0	0	0		
127	AllWellsCatch		All wells in wetland catchment	1	#/sq mi wetland catchment	N	Reference/stressed	0	0.603975	3.901083		
Hydrology (Weight: 1)	134		WetArea	Total wetland area	2	% of planning unit	P	Presence/absence	0	0	0	
	140		HydricSoils	Hydric soils	1.5	% of planning unit with hydric soils	P	Presence/absence	0	0	0	
	139		FloodArea	Floodplain area	1	% of planning unit	P	Presence/absence	0	0	0	
	138		FldForestWet	Floodplain, forested wetlands	1	sq mi/wetland buffer	P	Reference/stressed	0	0	0	
	137		ForestHdwtrWet2	Forested headwater wetlands	1	% of planning unit	P	Presence/absence	0	0	0	
Biodiversity (Weight: 0.5)	141		AllSGNCWet	Rare species in wetland buffer	1.5	# species/sq mi wetland buffer	P	Presence/absence	0	0	0	
	146		NNISWet	Non-native invasive species in wetland buffer	1.5	# species/sq mi wetland buffer	N	Presence/absence	0	0	0	
	143		CalcBedWet	Calcareous bedrock in wetland buffer	1	% of wetland buffer	P	Presence/absence	0	0	0	
	145		NEHabWet	Northeast habitat types in wetland buffer	1	# types in wet buffer/planning unit	P	Reference/stressed	5	3	0	
Wetland Habitat (Weight: 1)	148		NatcoverWet	Natural cover in wetland buffer	2	% of wetland buffer	P	Reference/stressed	92.76	82.63	58.95	
	148.3		DevelopedWet2*	Development in wetland buffer	2	% of wetland buffer	N	Presence/absence	0	0	0	
	152		ActiveSurfaceWet2*	Active surface mining in wetland buffer	2	% of wetland buffer	N	Reference/stressed	2	10	20	
	151		AllWellsWet	All wells in wetland buffer	1.5	#/wetland buffer	N	Presence/absence	0	0	0	
	148.1	AgWet2	Agriculture in wetland buffer	1	% of wetland buffer	N	Presence/absence	0	0	0		
	148.2	GrazeWet2	Grazing/pasture in wetland buffer	1	% of wetland buffer	N	Reference/stressed	0	1.16	26.55		
	150	WetForestPatchMean	Mean forest patch size within wetland buffer	1	mean forest block size in wetland buffer/planning unit	P	Reference/stressed	14.3659	3.2308	0		
	153	LegacySurfaceWet	Legacy surface mining in wetland buffer	1	% of wetland buffer	N	Reference/stressed	2	10	20		
154	RoadsRRWet	All roads & rail in wetland buffer	1	miles/sq mi in wetland buffer	N	Reference/stressed	0	0.9296	5.99195			
UPLANDS	Habitat Connectivity (Weight: 1)	164	ForestSize	Mean forest patch size	2	mean forest block size/planning unit	P	Reference/stressed	10.4391	2.4049	0.770105	
		165	LocInt	Local integrity score	1.5	avg score/planning unit	P	Reference/stressed	44.4259	30.3488	20.72249	
		166	Developed1*	Development	1.5	sq mi/planning unit	N	Reference/stressed	0	0.11	1.55	
		174	ActiveSurface1*	Active surface mining	1.5	% of planning unit	N	Literature/Expert opinion	2	10	20	
		167	AllRdRail	All roads & rail	1	miles/sq mi planning unit	N	Reference/stressed	0.1322	1.6582	2.7944	
		173	AllWells	All wells	1	#/sq mi planning unit	N	Reference/stressed	0	2.2822	5.46936	
		168	Energy	Energy transmission lines	0.5	miles/sq mi planning unit	N	Presence/absence	0	0	0	
		169	Pipe	Gas pipelines	0.5	miles/sq mi planning unit	N	Presence/absence	0	0	0	
		170	Wind	Wind turbines	0.5	#/sq mi planning unit	N	Presence/absence	0	0	0	
		177	Timber1	Timber harvesting operations	0.5	sq mi/planning unit	N	Presence/absence	0	0	0	
	Habitat Quality (Weight: 1)	179	Hetero	Heterogeneity score	2	avg score/planning unit	P	Reference/stressed	38	36	33	
		181	NatCover	Natural cover (forest, grassland, wetland)	2	% of planning unit	P	Reference/stressed	98.59	94	79.96	
		183	ActiveSurface2*	Active surface mining	1.5	% of planning unit	N	Literature/Expert opinion	2	10	20	
		188	Developed2*	Development	1.5	% of planning unit	N	Reference/stressed	0	0.11	1.55	
		184	LegacySurface	Legacy surface mining	1	% of planning unit	N	Literature/Expert opinion	2	10	20	
		185	Timber2	Timber harvesting operations	1	sq mi/sq mi planning unit	N	Presence/absence	0	0	0	
		186	Ag	Agriculture	1	% of planning unit	N	Reference/stressed	0	0.01	0.1	
		187	Graze	Grazing/pasture	1	% of planning unit	N	Reference/stressed	0.06	4.14	9.76	
	Biodiversity (Weight: 0.5)	194	PctLoss	Percent tree basal area loss	2	% of planning unit	N	Reference/stressed	3	15	30	
189		AllSGNCUp	Rare species	1.5	#/sq mi planning unit	P	Presence/absence	0	0	0		
193		NNIS	Non-native invasive species	1.5	#/sq mi planning unit	N	Presence/absence	0	0	0		
190		NEHab	Northeast habitat types	1	#/planning unit	P	Reference/stressed	7	5	0		
192		CalcBed	Calcareous bedrock	1	% of planning unit	P	Presence/absence	0	0	0		
CONSOLIDATED ANALYSIS		Energy	213	UnminedPerbd	Currently unmined area in permit boundary	2	% of planning unit					
	214		UnminedCoal	Unmined area of mineable coal seams	2	% of planning unit						
	215		MSWellPot	Marcellus well potential, based on shale thickness	2	mean thickness/planning unit						
	216		WindPot	Modeled wind potential	2	% of planning unit						
	217		PropWind	Proposed wind turbine locations	1	#/sq mi planning unit						
	218		PropEnergy	Proposed energy transmission lines	1	mi/sq mi planning unit						
	219		PropPipe	Proposed gas pipelines	1	mi/sq mi planning unit						
	220	PropPower	Proposed power plants	1	#/sq mi planning unit							
	221	Geothermal	High geothermal potential (temp>150 degrees)	1	% of planning unit							
	Population/ Development	222	PopProject	Population projections	1							
		223	FutureGrowthArea	Areas designated for future development	1							
		224	DevelopPot	Development potential	1							
		225	PropDam	Proposed dam locations	1	#/stream mile						
226		FutureRds	Proposed future roads	1	mi/sq mi planning unit							
227		PropWWTP	Proposed wastewater treatment plants	1								
Climate Change	228	Resiliency	Resiliency score	1	avg score/planning unit							
	229	CurrDens	Current density (regional flow) score	1	avg score/planning unit							
OPPORTUNITIES	Priority Interest Areas			TNC aquatic portfolio streams								
				TNC terrestrial portfolio lands								
				US Forest Service proclamation boundary								
				WV Division of Forestry priority areas								
	Protected Lands			National Park Service priority areas								
			Protected/Public lands (GAP Status 1-3)									