

Comparison of Model Features

	BASINS	Modified GWLF	EUTROMOD
Loads			
Point source loads	X	X	X
Septic system loads	X	X	X
Nonpoint source sediment load generation and export	X	X	X
Predicts Changes in Water Quality in Response to:			
Urban BMPs	X	X	X
Rural BMPs	X	X	X
Changes in land use	X	X	X
Runoff			
Urban	X	X	X
Rural/agricultural	X	X	X
Constituents			
Nitrogen	X	X	X
Phosphorus	X	X	X
Fecal coliform	X	-	-
BOD/COD	X	-	-
Metals (cadmium, lead, copper, zinc)	Partial	X	-
Thermal loading	X	-	-
Total solids/sediment	X	X	X
Dissolved solids	Partial	-	-
Temporal Scale			
Continuous	X	-	-
Hourly	X	-	-
Daily	X	X	-
Seasonal	X	X	-
Annual	X	X	X
Event-scale	X	X	-

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User Criteria			
Public domain	X	X	X
User friendly	X	X	X
GIS interface	X	X	-
High quality graphical output	X	X	-
Statistical summaries built in	X	Partial	Partial
Flexible for scenario development	X	X	X
Model runs take <24 hours	X	X	X
Existing documentation	X	X	X
Built in calibration capabilities	Partial	Partial	-
Receiving Waterbody Modeled			
Lake/Reservoir	X	X*	X
River	X	X*	-

X* - Waterbody models are not part of the model, however, this model is linkable to receiving waterbody models