

Tables

Table 1. Reflection of SES attributes in Integrated Water Resources Management.

	Causality	Feedback	Heterogeneity		Non-linearity	Cross-scale dynamics	
			Spatial	Temporal		Spatial	Temporal
IWRM	++++	+++	+++	+	++	++	+

+ Limited evidence (implicit): available studies suggest **limited evidence** that the SES attribute (e.g., causality, non-linearity) is **implicitly** considered in IWRM approach; ++ Limited evidence (explicit): Available studies suggest **limited evidence** that the SES attribute is **explicitly** considered; +++ Robust evidence (implicit): Available studies suggest **strong evidence** that the SES attribute (e.g., causality, non-linearity) is **implicitly** considered; ++++ Robust evidence (explicit): Available studies suggest **strong evidence** that the SES attribute (e.g., non-linearity) is **explicitly** considered

Table 2. Reflection of SES attributes in Water-Energy-Food Nexus.

	Causality	Feedback	Heterogeneity		Non-linearity	Cross-scale dynamics	
			Spatial	Temporal		Spatial	Temporal
WEF Nexus	+++	++	+++	++++	++	++	++

+ Limited evidence (implicit); ++ Limited evidence (explicit); +++ Robust evidence (implicit); ++++ Robust evidence (explicit);

Table 3. Reflection of SES attributes in Nature based Solution (NbS)

	Causality	Feedback	Heterogeneity		Non-linearity	Cross-scale dynamics	
			Spatial	Temporal		Spatial	Temporal
NbS	+++	++	++	++	++	++	++

+ Limited evidence (implicit); ++ Limited evidence (explicit); +++ Robust evidence (implicit); ++++ Robust evidence (explicit);

Table 4. Reflection of SES attributes in socio-hydrology

	Causality	Feedback	Heterogeneity		Non-linearity	Cross-scale dynamics	
			Spatial	Temporal		Spatial	Temporal
S-H	++++	++++	+	+	++	+	+

+ Limited evidence (implicit); ++ Limited evidence (explicit); +++ Robust evidence (implicit); ++++ Robust evidence (explicit);

Table 5. Reflection of SES methods in the IWRM literature.

	Participatory workshop	Role-play game	Multicriteria analysis	Agent-based	System dynamics	Network analysis	Integrated Assessment	Bayesian approach
IWRM	++	+	+	+	+	+	++	+

+ Limited use: Available studies suggest limited application of SES methods (e.g., participatory workshop, role-play game, agent-based) in IWRM approach; ++ Widely use: Available studies suggest wider application use of SES methods

Table 6. Reflection of SES methods in WEF Nexus literature.

	Participatory workshop	Role-play game	Multicriteria analysis	Agent-based	System dynamics	Network analysis	Integrated Assessment	Bayesian approach
WEF Nexus	+	+	+	+	++	+	++	+

+ Limited use: Available studies suggest limited application of SES methods; ++ Widely use: Available studies suggest wider application use of SES methods

Table 7. Reflection of SES methods in Nature based Solution (NbS) studies.

	Participatory workshop	Role-play game	Multicriteria analysis	Agent-based	System dynamics	Network analysis	Integrated Assessment	Bayesian approach
NbS	++		+	+	++	+	++	+

+ Limited use: Available studies suggest limited application of SES methods; ++ Widely use: Available studies suggest wider application use of SES methods

Table 8. Reflection of SES methods in socio-hydrology studies.

	Participatory workshop	Role-play game	Multicriteria analysis	Agent-based	System dynamics	Network analysis	Integrated Assessment	Bayesian approach
SH	+	+	+	+	++	+	+	+

+ Limited use: Available studies suggest limited application of SES methods; ++ Widely use: Available studies suggest wider application use of SES methods