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A Review of Community Resilience Frameworks and Assessment Tools: An Annotated Bibliography

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4. Impact and Conclusions

This annotated bibliography provides a summary of the 56 source documents² used to develop the NIST Resilience Indicator Inventory dataset (see: [link](#)) (Dillard et al. 2018b). It documents the various theoretical and methodological approaches in the measurement of community resilience, providing a summary of their goals and development methods, their associated indicators and measures, as well as the definitions of resilience used. Coupled with the Indicator Inventory itself, a data paper summarizing the Inventory contents, and other community resilience assessment tools (see the NIST Community Resilience Group products page for more details: [link](#)), these products provide a resource for groups intending to use existing frameworks for tailoring a methodology to assess their community's resilience.

This resource can be utilized for one of several purposes. First, by providing a summary of previous efforts in community resilience measurement, this bibliography can be used by practitioners to learn more about available assessment and decision support tools. In particular, using the annotated bibliography in combination with the Inventory will expand the frame of reference for the types of data and approaches available for measuring resilience in similar contexts or communities. As the source documents include frameworks for measuring resilience for various community types, hazards, scopes, and goals, this resource can provide guidance on available tools and may support the identification of planning resources.

Second, this resource is valuable to other researchers interested in community resilience topics and metrology. The synthesis of frameworks, development methods, indicators, and approaches presented provides a basis for assessment development, comparison, and validation efforts. For example, a review of the document's development methods can be used to understand common methods utilized within the field of community resilience assessment. Or, a selection of frameworks on a specific topic, such as drought resilience, could form the basis of a literature review. The definitions of resilience can be used by researchers seeking to better understand or conduct additional research such as comparing definitions of resilience among different disciplines.

Lastly, this work will inform several ongoing efforts at NIST related to community resilience decision support and measurement. Specifically, this work supports ongoing efforts to systematically compare these approaches, and to inform the development of a theoretically and empirically based community resilience assessment methodology.

² In some cases, the source document used in the indicatory inventory had been taken down or updated and could not be found online at the time of creating this annotated bibliography. In these cases, a document with as close a match as possible to the original was used. These cases are noted in the entries above.

