



A two-year planning effort
focused on building community resilience
to the impacts of climate change in Broward County

BROWARD COUNTY: A RESILIENCE PLAN IN THE MAKING

#ResilientBroward

April/May 2023

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The Resilience Plan Steering Committee held its sixth meeting on April 12, 2023, with progress reports on the Economic Methodology Memorandum, the initial hydrologic modeling results viewer and the County asset analysis.



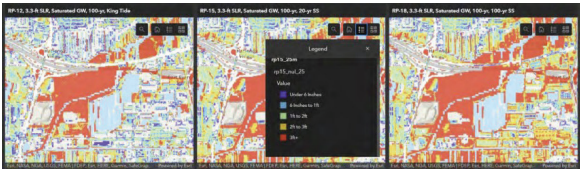
Photo: Street flooding along Riverland Road, Davie, 4/13/2023.
Inset: Rescue vehicle, Fort Lauderdale.

Economic Modeling

Economic Modeling Methodology: The economic consulting team provided a presentation on the final economic modeling methodology that has been accepted by the County. This represents the completion of a significant milestone and brings us closer to combining the hydrologic model results as an input to the economic model. County staff are currently engaged with delivering small business economic data to the consultants in support of this task. This effort is expected to continue through the summer and updates will be provided at future meetings.

County Asset Analysis

Hazen representatives held two meetings with agency staff to support the County asset analysis including the ranking and weighting criteria and methodology. Next steps will include a facilitated group exercise to refine the approach with application to selection of county sites. It is anticipated that experiences from the April 2023 rain event will inform this exercise (a timely misfortune). This task has broader community relevance as a capital project planning checklist will be developed in parallel to the analysis and shared with Broward municipalities for use in review of facility and infrastructure investments.



Hydrologic Model Results Viewer

The consultant team shared the model results viewer with the Committee and gave a brief demonstration on how the tool works and will be used in the engagement with local governments to explore the validity of the model results and aid in the identification of adaptation priorities and opportunities. The viewer allows comparison of model outputs across scenarios and location-specific estimates of flood depth under compound flood conditions. The model results themselves will be useful in comparing to flood depths measured in April 2023. The Hazen team will be holding 6 sub-regional stakeholder meetings to review the results and solicit feedback during the months of May and June (to be announced shortly).

Adaptation Approaches

The Hazen team has begun to look at potential adaptation strategies that include changes to policy, infrastructure, procedures, and regulations to support a toolbox or pool of potential options. The main goals are to reduce and store stormwater runoff, improve conveyance and manage discharges in adapting to future hydrologic conditions and land use changes. A timeline for implementation, ranging from short- to long-term, will be developed for a variety of potential adaptations that correspond to the type of event, and the probability of occurrence. The adaptation investments will need to be sequenced so as to build upon previous investments, allowing for modification, and while providing a base for longer-term solutions.

Next Steps

The consultant is working to finalize the hydrologic model viewer and will be scheduling the stakeholder meetings for early summer. The no action hydrologic model results will be used by the economic modeling team to develop the cost-benefit scenarios for different investment decisions and outcomes. The next Resilience Plan Steering Committee Meeting will be held on June 14, 2023.

