

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

February 2024

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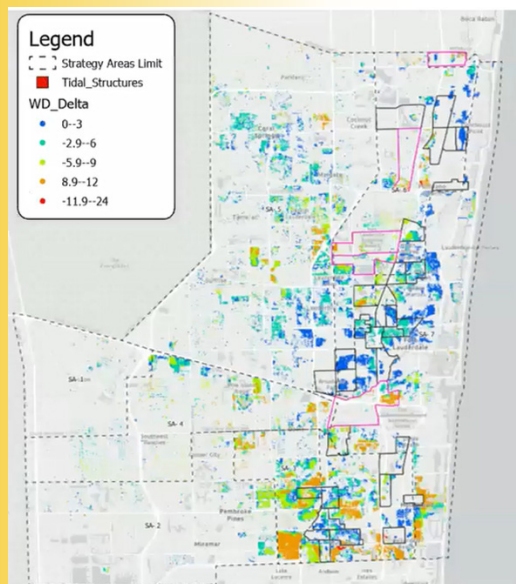
Adaptation Strategies

The Hazen consulting team has completed an initial set of adaptation strategies to address predicted worsening of flood conditions with rising sea level and increased rainfall. Initial strategies include mechanical pumps, modification of canal elevations, passive surface storage, constructed groundwater storage, and elevated shorelines promoting engineered and nature-based solutions.

A variety of interventions were actively modeled with impressive results. Specific efforts include the construction of swales in residential areas to achieve 1200+ acre-feet of storage, modification of nearly 170 canal control structures, adding pumps and canal crossings, and collective raising of seawalls.

Initial results indicate 30% of properties benefit with a 0- to 3-inch reduction in flood depth, 40% achieve 3 to 9 inches, and 30% achieve 9 to 24-inches. The next round of analyses will focus on areas needing additional improvement and ensuring strong benefits for critical areas where social vulnerabilities and flood risk intersect.

Additional iterations will further explore above ground storage, additional pumping capacity, and re-development guidance.



*Flood reduction
provided by
adaptations.*



360 flood view photos are embedded within the online platform. Users can click and view under each locality scenario.

Economic Modeling

The economics team is meeting with staff from the Airport and Port Everglades to review previous flood impacts needed for model validation in high resolution modeling of economic scenarios specific to these key regional assets. With completion of adaptation modeling county-wide and of county assets, the economics team will rerun the model to develop the post action scenarios to quantify reductions in flood damages to property and losses in production within the Broward economy in comparison to the baseline or “no action” model results. These results will be available late spring or early summer.

Outreach Campaign

Public listening sessions were held with community partners to help identify local flood hot spots, flood reduction priorities, other priority climate threats, and applicable solutions for incorporation in the plan. Additional social media is being developed and shared, including resilience videos and a community survey, both of which are posted at Broward.org/resilienceplan. Please share!

ONLINE PLATFORM

The online platform is currently under development, with an interactive flood viewer and 360-degree photos for viewing current and future conditions flood scenarios. This tool will allow users to assess the flood risk level of individual properties across the County by adjusting storm surge, rainfall, sea level rise, and groundwater conditions with highlights of iconic sites.



Take the survey now, by scanning the QR code: