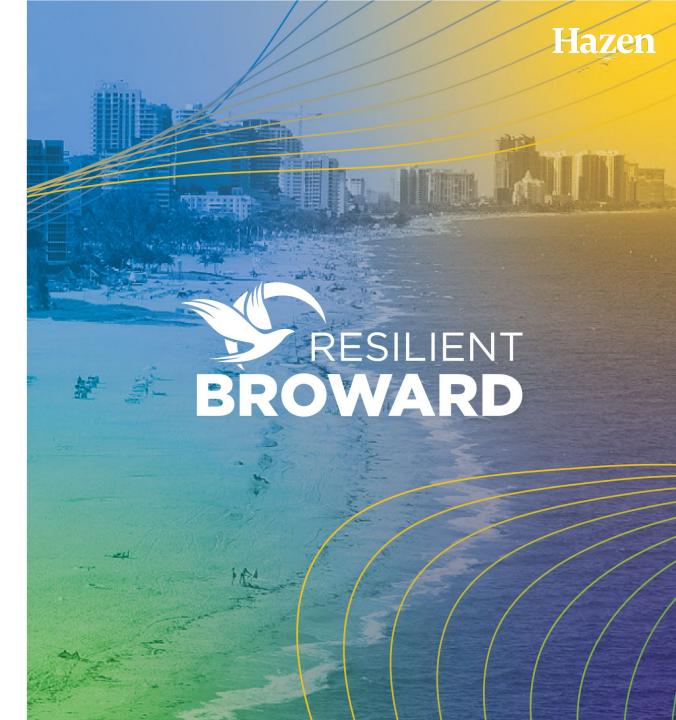


COUNTYWIDE RISK ASSESSMENT AND RESILIENCE PLAN

Baseline Hydrologic Model Results – Countywide Stakeholder Review

May 22, 2023

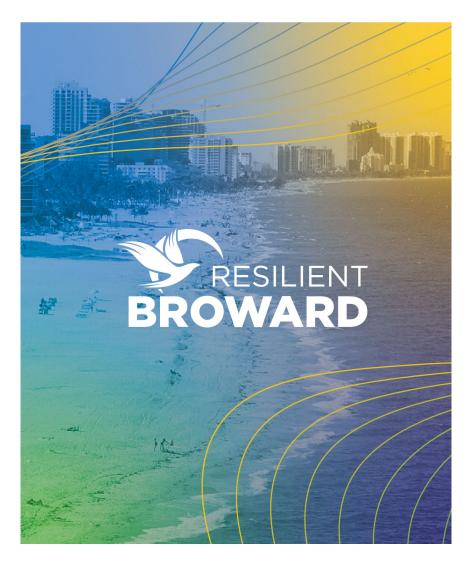


Outline



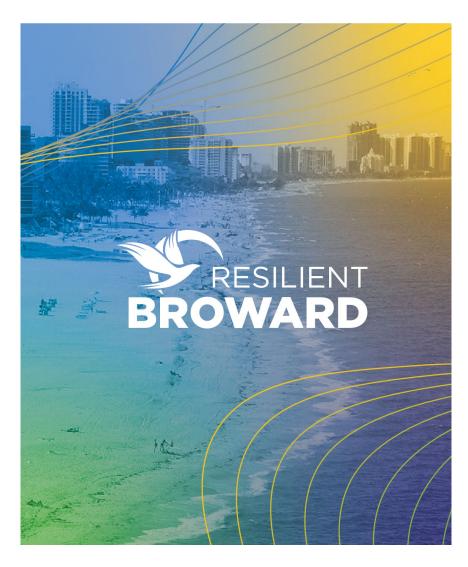
- 1 Introduction to County Risk Assessment and Resilience Plan (J. Jurado)
- 2 Intent of Stakeholder Review (Hazen)
- 3 Overview of Hydrologic Modeling Effort (Hazen)
 - Model Origin and Evolution
 - Current Model and Scenarios Analyzed
 - Introduction to Review Tool
- 4 Review of Model Results (All Breakout Rooms)
- 5 Concluding Thoughts and Next Steps (Hazen and G. Mount)





Introduction

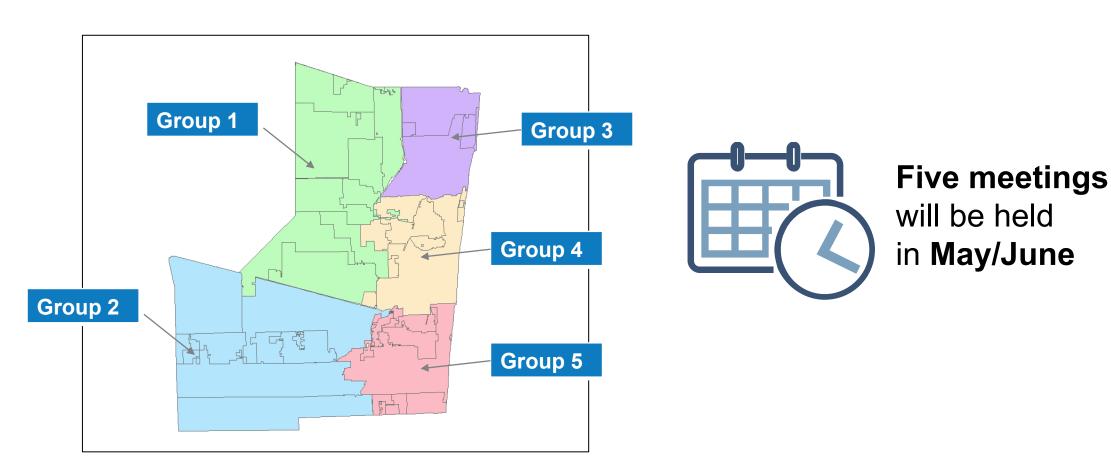




Intent of Stakeholder Review



Sub-regional Stakeholder Review Workshops will help fine tune model and inform adaptation strategy utilization



The grouping of Stakeholder entities is noted below

GROUP



North Lauderdale

Coral Springs

Coconut Creek

Tamarac

Parkland

Plantation

Lauderhill

Margate

Sunrise

Seminole Tribe of Florida

NSID WCD

Old Plantation WCD

Plantation Acres WCD

Pine Tree WCD

Cocomar WCD

Turtle Run WCD

Sunshine WCD

Coral Springs WCD

Coral Bay WCD

Cypress Cove WCD

North Lauderdale WCD

GROUP



Davie

Southwest Ranches

Weston

Pembroke Pines

Miramar

Cooper City

South Broward WCD

Indian Trace WCD

Bonaventure WCD

Central Broward WCD

Tindall Hammock WCD

GROUP



Pompano Beach Deerfield Beach Hillsboro Beach Lighthouse Point Broward WCD

GROUP



Fort Lauderdale Lauderdale Lakes

Lauderdale Lake

Wilton Manors

Lauderdale-By-The Sea

Sea Ranch Lakes

Lazy Lake

Oakland Park

Lauderdale Isles WCD

GROUP



Dania Beach

Hollywood

Hallandale Beach

West Park

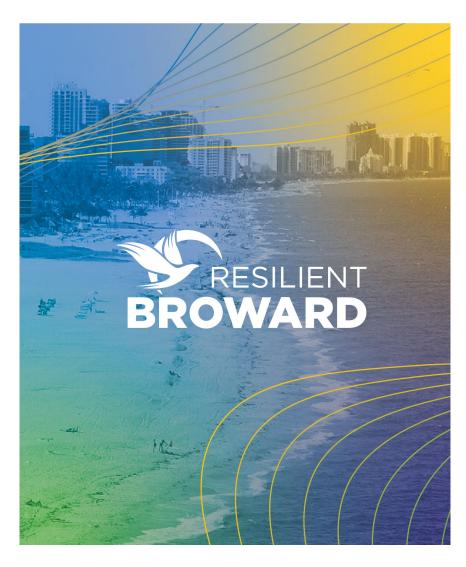
Pembroke Park

Seminole Tribe of Florida

Oakridge WCD

Twin Lakes WCD

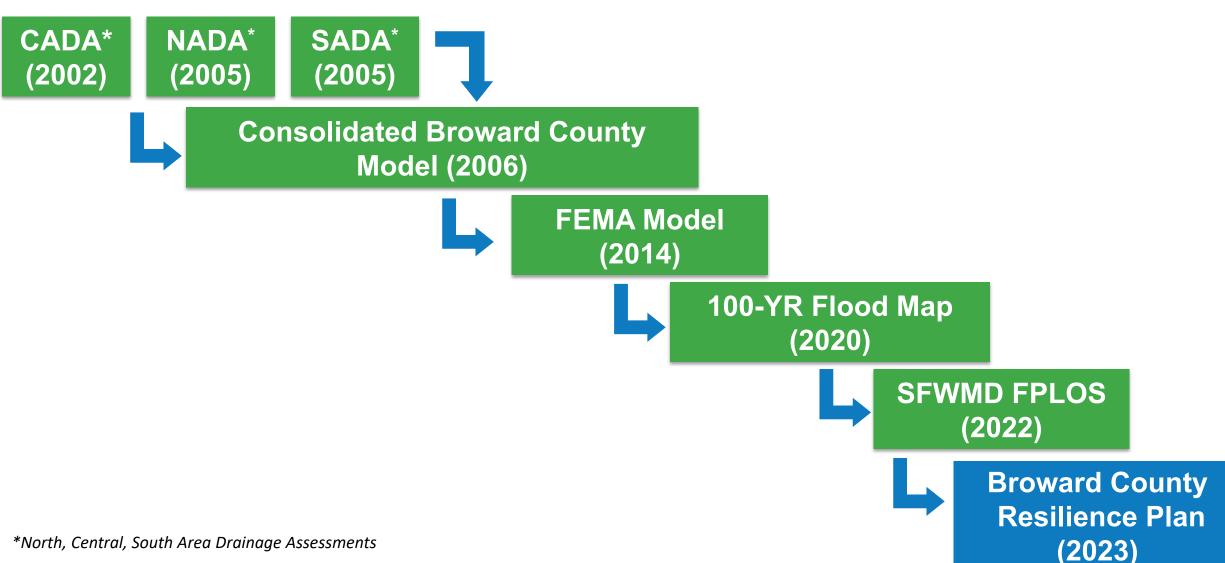




Overview of Hydrologic Modeling Effort



Model Origin and Evolution History of the Broward County Model (2002-2023)

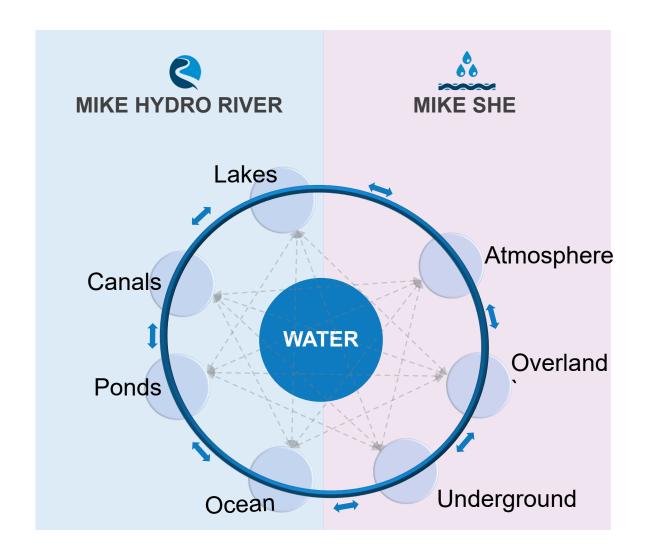


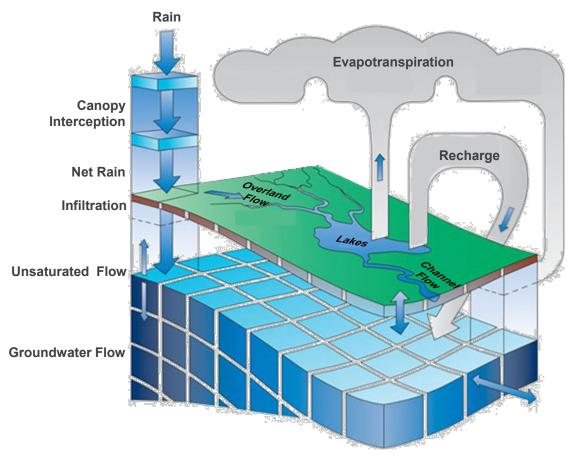
RESILIENT |

BROWARD

Hazen

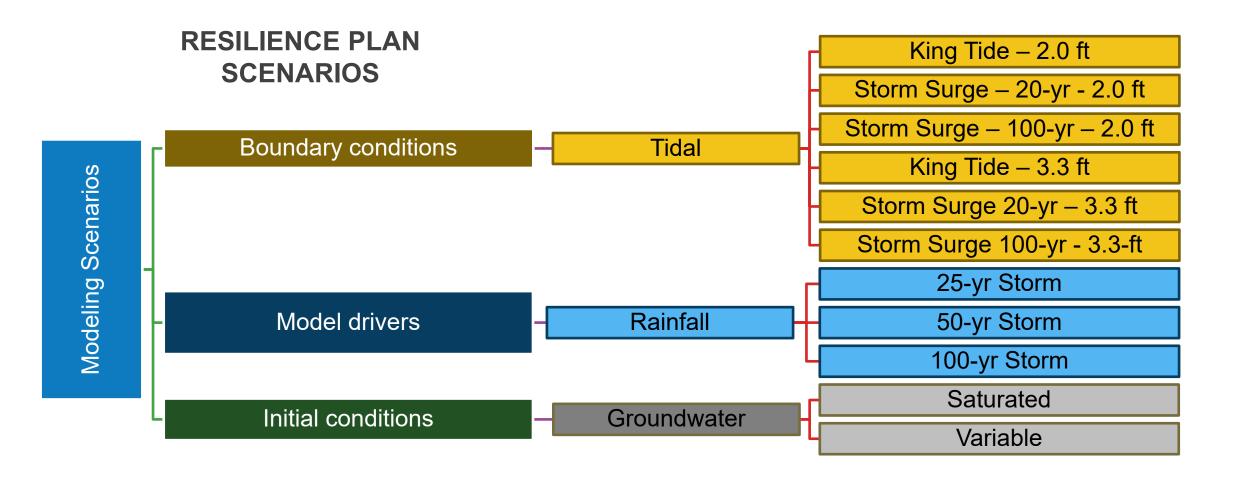
MIKE SHE - MIKE HYDRO GENERAL DESCRIPTION





MIKE SHE- MIKE HYDRO RIVER

Current Model and Scenarios Analyzed



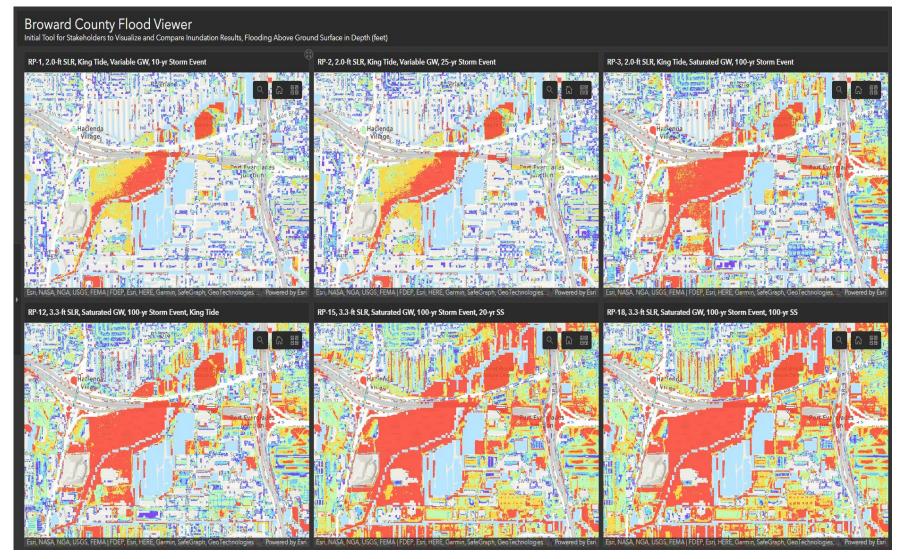


Current Model and Scenarios Analyzed

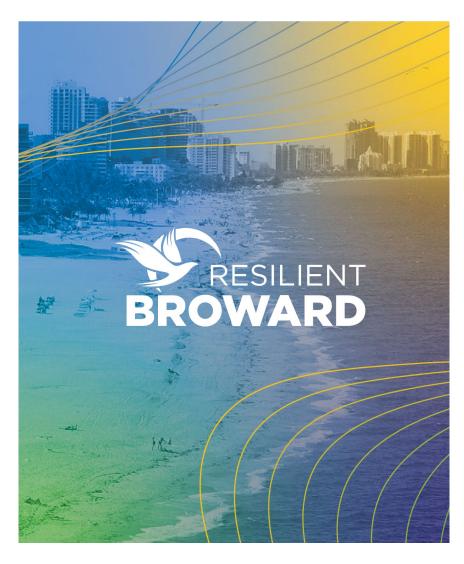
Scenario No.	Rainfall	Sea Level Rise Scenario	Antecedent Condition	Tidal Condition
RP-1	25-yr	2.0 ft	Variable GW	King Tide
RP-2	50-yr	2.0 ft	Variable GW	King Tide
RP-3	100-yr	2.0 ft	Saturated System	King Tide
RP-4	25-yr	2.0 ft	Variable GW	20-yr Storm Surge
RP-5	50-yr	2.0 ft	Variable GW	20-yr Storm Surge
RP-6	100-yr	2.0 ft	Saturated System	20-yr Storm Surge
RP-7	25-yr	2.0 ft	Variable GW	100-yr Storm Surge
RP-8	50-yr	2.0 ft	Variable GW	100-yr Storm Surge
RP-9	100-yr	2.0 ft	Saturated System	100-yr Storm Surge
RP-10	25-yr	3.3 ft	Variable GW	King Tide
RP-11	50-yr	3.3 ft	Variable GW	King Tide
RP-12	100-yr	3.3 ft	Saturated System	King Tide
RP-13	25-yr	3.3 ft	Variable GW	20-yr Storm Surge
RP-14	50-yr	3.3 ft	Variable GW	20-yr Storm Surge
RP-15	100-yr	3.3 ft	Saturated System	20-yr Storm Surge
RP-16	25-yr	3.3 ft	Variable GW	100-yr Storm Surge
RP-17	50-yr	3.3 ft	Variable GW	100-yr Storm Surge
RP-18	100-yr	3.3 ft	Saturated System	100-yr Storm Surge
RP-19	3-day 10-yr + 20%	2.0 ft	Variable GW	King Tide
RP-20	3-day 10-yr + 20%	2.0 ft	Variable GW	20-yr Storm Surge
RP-21	3-day 10-yr + 20%	2.0 ft	Variable GW	100-yr Storm Surge
RP-22	3-day 10-yr + 20%	3.3 ft	Variable GW	King Tide
RP-23	3-day 10-yr + 20%	3.3 ft	Variable GW	20-yr Storm Surge
RP-24	3-day 10-yr + 20%	3.3 ft	Variable GW	100-yr Storm Surge



Introduction to Review Tool





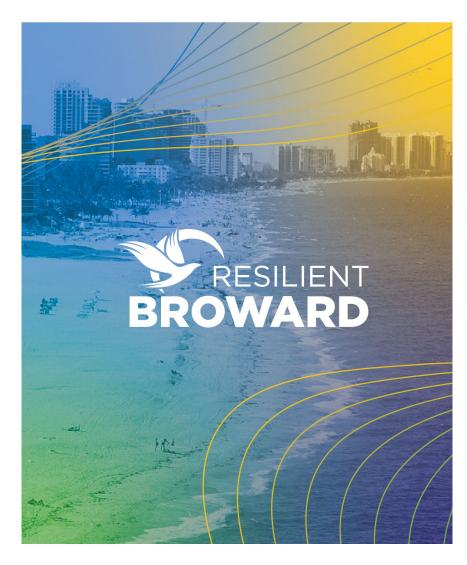


Review Model Results



Breakout Sessions





Concluding Thoughts and Next Steps



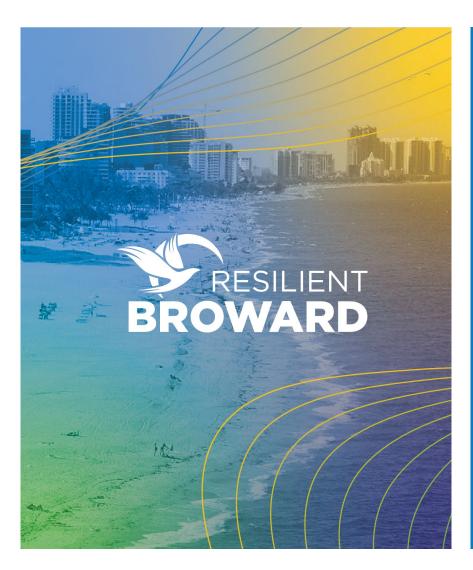
Concluding Thoughts





Next steps after Stakeholder Workshops

- Provide Stakeholders a summary of all five meetings' proceedings
- Provide a dropbox for Stakeholders' continued input (via photos, videos, flooding reports, etc.)
- Utilize this critical feedback to make prudent model adjustments
- Advance assignment and evaluation of adaptation strategies (and combinations thereof)
- Convene with you again to discuss adaptation strategies and their expected efficacy



Questions?



Thank you!

