

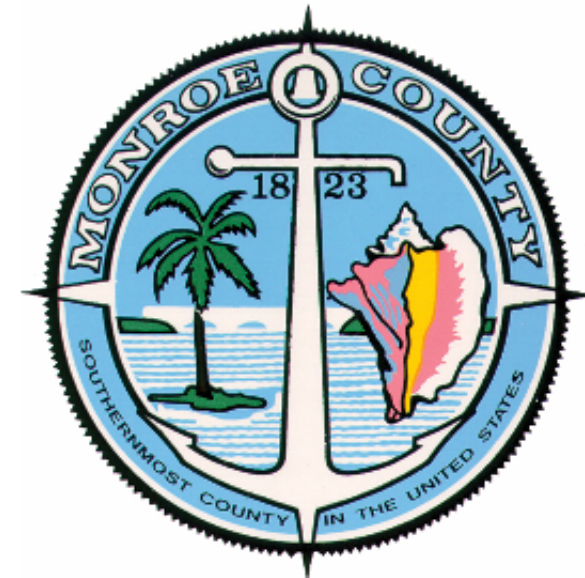
Disaster Recovery

Recovery Strategies After Hurricane Irma

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PRELIMINARY DAMAGE ASSESSMENT (SUMMARY W PARK INFO) - THRU 11/26/17

KEY NAME	UNAFFECTED	AFFECTED	MINOR	MAJOR	DESTROYED
KEY LARGO	2581	3992	326	75	46
VILLAGE OF ISLAMORADA	0	468	427	47	34
FIESTA KEY	0	0	0	257	0
CRAIG KEY	0	1	0	0	0
CITY OF LAYTON	4	0	160	15	0
LONG KEY	304	86	14	0	1
CONCH KEY	0	78	13	4	10
DUCK KEY	292	361	83	7	0
CITY OF KEY COLONY BEACH	0	462	888	206	1
CITY OF MARATHON	0	4018	829	1402	394
OHIO KEY	0	0	0	397	0
BAHIA HONDA KEY	6	9	6	0	0
BIG PINE KEY	264	1538	663	299	473
LITTLE TORCH KEY	389	300	80	25	37
MIDDLE TORCH KEY	3	0	12	0	0
BIG TORCH KEY	11	4	37	1	0
RAMROD KEY	31	20	493	12	19
SUMMERLAND KEY	1	706	20	10	1
CUDJOE KEY	134	914	624	52	81
SUGARLOAF KEY	125	995	207	103	19
UPPER SUGARLOAF KEY	175	0	0	0	0
LOWER SUGARLOAF KEY	6	161	110	0	0
SADDLEBUNCH KEYS	82	0	0	0	0
SHARK KEY	0	39	0	0	0
BIG COPPITT KEY	122	538	63	4	6
GEIGER KEY	41	252	0	7	12
ROCKLAND KEY	1	60	31	0	5
KEY HAVEN	0	457	1	0	0
STOCK ISLAND	895	565	22	15	17
CITY OF KEY WEST	0	11625	282	39	23
Grand Total	5467	27649	5391	2977	1179

The Florida Keys – Rising Above Recovery

Monroe County/Cities Post-IRMA Housing Strategy

GOAL: Rebuilding a stronger Florida Keys

Promote public health, safety and general welfare;

Advance adaptation to coastal flooding, storm surge and other hazards;

Protect property, residences and businesses, from storm impacts and minimize damages;

Minimize public and private losses due to storms;

Preservation of economy during and after disaster, including business viability and workforce housing;

Preserve and protect the environment, including natural and historic resources; and enhance resiliency.

STRATEGY: To address the unique challenges and diverse needs in our long term housing recovery

Develop programs to:

- Wind retrofitting of residential structures – provide funding options to harden existing housing units
- Installation of hurricane shutters or impact-windows; metal roofs, reinforced trusses and reinforced garage doors
- Provide funding to elevate existing private residences above BFE (base flood elevation)
- Provide funding to demolish and replace private residences to meet or exceed Building Code and Floodplain requirements (Demolish and Rebuild of Mitigated Building Envelope)
- Develop and increase the supply of workforce housing & choice of rental housing opportunities – identify areas of damaged properties or areas of less damaged properties to more easily and more quickly rebuild safe, energy-efficient and cost effective housing units (Community Workforce Housing Programs)
- Purchase scattered sites for single family homes; purchase parks and redevelop multi-family housing, purchase less vulnerable sites for workforce housing
- Provide funding to rebuild and repair resilient existing housing units as safe, energy-efficient and cost effective housing units (New construction or rehabilitating residences damaged by the storm)
- Identify areas to purchase and not rebuild that area (provide financial incentives to purchase areas in dangerous or high-risk zones)
- Provide funding to purchase developed properties in V-zone with existing residences to create additional open space and natural buffers and rebuild housing outside of V-zone
- Relocate and rebuild other less vulnerable location – safe, durable, physically accessible, energy-efficient and cost effective housing units (Purchase & Rehab assistance)
- Provide funding to purchase abandoned/damaged structures and demolish unsafe structures
- Provide funding to improve infrastructure for drainage at housing units – lessen flooding vulnerability
- Develop infrastructure for improved mass transit – improve mobility & access to services/ jobs
- Provide funding to repair and flood-proof commercial structures and add housing units over the commercial structure to improve local economic conditions, particularly the continued availability of workforce housing & jobs (Flood-proofing of Non-residential Structures)
- Identify/explore cost effectiveness of different types of factory-built housing to replace manufactured housing units.

4 TINY RESILIENT PROTOTYPE HOMES

- We are soliciting vendor proposals to design and build 4 different resilient, code compliant prototype homes to lay the foundation for affordable and resilient replacement dwellings for homes destroyed by Hurricane Irma.
- The four customized, lot specific single-family home designs will be scored based upon:
 - ✓ Innovation
 - ✓ Resilience
 - ✓ Price
 - ✓ Construction components that can be mass produced

The goal is to identify unique approaches to minimize wind and flood risk, while providing safe, functional, and economical solutions.



**MOBILE HOME PARK
ACQUISITION:
\$10 million in Community
Development Block
Grant-Disaster Recovery
(CDBG - DR) Funding**

PARK	COST	UNITS
1	808,500	13
2	907,500	12, plus 5 transient

- Funds are available for land acquisition.
- County Land Authority will seek these funds to purchase two high-risk destroyed mobile home parks, which would be owned and managed by the Board of County Commissioners and/or the Monroe County Housing Authority. Existing, substandard housing currently below base flood elevation will be demolished and reconstructed as workforce rental housing.



**NEW CONSTRUCTION:
\$20 million in Community Development Block
Grant-Disaster Recovery (CDBG - DR) Funding**

- Funds are available for construction of new code compliant workforce housing.

**RECONSTRUCTION:
\$3.6 million in Hazard
Mitigation Grant
Program (HMGP)
Funding**



- Funding requested for eligible homeowners to reconstruct non-code compliant homes (flood elevation or wind codes) with compliant homes.
- Goal is to rebuild 26 homes.

DEMOLITION
MITIGATION
RECONSTRUCTION
& ELEVATION:
\$50 million in
Community
Development Block
Grant-Disaster
Recovery (CDBG-
DR) Funding

Funding for repair, replacement,
and elevation of damaged, non-
code compliant homes.



Goal is to reconstruct 300
homes.

ELEVATION



HOUSING REPAIR
\$2 million in Florida
State Housing
Initiatives Partnership -
Disaster Recovery
(SHIP-DR) Funding



- Funding of up to \$35,000, per housing unit for repair to eligible owners, providing less risk to Federal, State, and local resources in the future.



WEATHERIZATION

- Low-income homeowners or renters may receive up to \$5,000 to improve energy efficiency
- Grant funds for contractors to:
 - replace non-compliant windows or add shutters,
 - add insulation and weather-stripping around doors and windows,
 - replace non-efficient old appliances
 - replace incandescent light bulbs with fluorescent bulbs,
 - replace toilets and shower heads with low flow units.
- Combine with SHIP rehabilitation funds to maximize weatherization services to the home.

Lessons Learned:

- Lack of resources for Recovery, including staff, funding, knowledge of programs
 - Demolition not allowed
- Locations for temporary housing – pre-determined/code flexibility
- Procurement under Federal regulations
- Long Term Recovery Group formations to link survivors with case management and assistance
- Substantial Damage and floodplain regulations
- Insurance (wind & flood)
 - Promotion to homeowners before a storm
 - Knowledge of Increased Cost of Compliance (ICC)
 - Liaison between County and insurance companies

