

Revised Preliminary FIRM Rollout Meeting

Morris County, NJ Andrew Martin, Region II Mitigation Liaison March 1, 2016







FEMA's Mitigation Mission



Reduce the loss of life and property by lessening the impact of disasters.

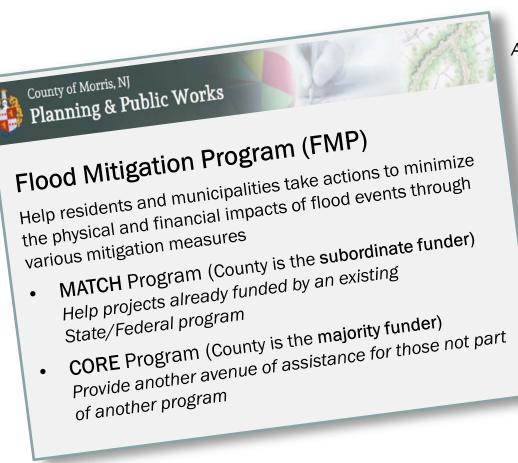


Increasing Resilience Togethe





Success Stories



Wetlands Restoration

Mount Olive and Roxbury Townships An old sand and gravel mine converted into wetlands









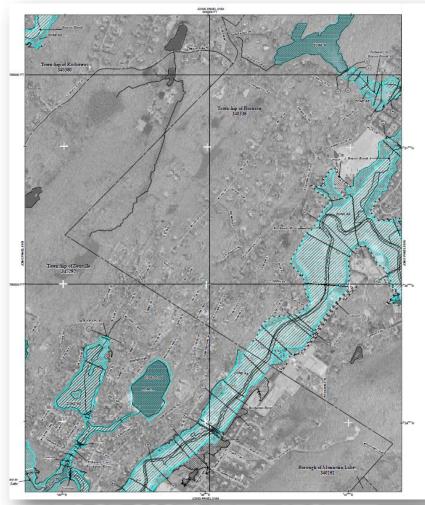
Agenda

Introduction	 FEMA's mission Meet the presenters Meet the attendees 		
Overview of Preliminary Flood Insurance Rates Maps (FIRMs)	 What are FIRMs Other Uses (besides flood insurance) Changes to the National Flood Insurance Program 		
History of the Mapping Project	 Previously released maps (2010, 2011 & 2015) Community feedback/identified issues 		
Current Status	 FEMA's comprehensive review of all the panels Addressing previously identified issues Incorporating changes 		
Next Steps	 Timeline for map adoption Overview Discussion of meetings to follow: the Consultation Coordination Officers (CCO) Meeting and Open House (public meeting) Plan the CCO and Open House Questions and Answers 		

Overview of Preliminary FIRMs

Identifies the areas of flood risk

- Special Flood Hazard Areas (SFHAs)
 - Zones A and AE
 - Zone X (0.2 PCT)
- Base Flood Elevations (BFEs) for 1% annual chance flood



DOES NOT AFFECT INSURANCE REQUIREMENTS OR COSTS UNTIL ADOPTED



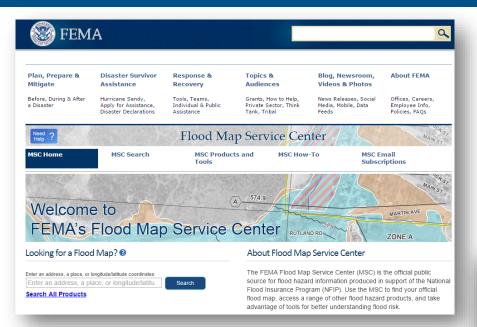
Preliminary FIRM Uses

Keystone Associates re-designed the building when they saw Broome County's preliminary FIRMs in 2010

- Raised the first floor 2' above the NEW 1-percent-annual-chance flood BFE
- Saved money and time after being hit by flooding during Tropical Storm Lee



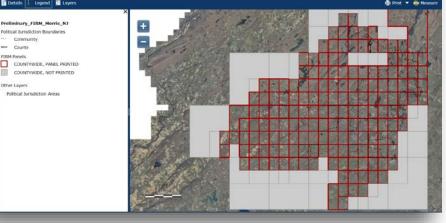
Accessing Preliminary Data



Online Preliminary FIRM Data Viewer: currently under development

FEMA Map Service Center: https://msc.fema.gov/



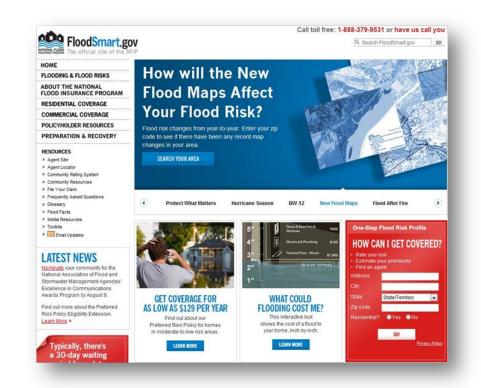






National Flood Insurance Program (NFIP)

- Voluntary program based on a mutual agreement between the Federal government and the local community
- In exchange for adopting and enforcing FPM ordinance, Federallybacked flood insurance is made available





Legislative Reforms

NFIP Challenges

- Pre-Sandy, NFIP was \$18B in debt to Treasury (\$16B from Katrina)
- Subsidized rates do not adequately reflect actual flood risk

July 2012: Biggert-Waters Flood Insurance Reform Act

- Prohibit premium subsidies on new or lapsed policies
- Phase out subsidies for all policies
- Require banks to enforce purchase requirements more vigorously
- Analyze affordability impacts by April 2013

March 2014: Homeowner Flood Insurance Affordability Act

- Repeals triggers for new or lapsed policies
- Caps rate increases at 18% annually (some exceptions)
- Enables newly mapped properties to purchase preferred risk rate for 1 year
- Authorizes additional funds for affordability study





Morris County Mapping Project

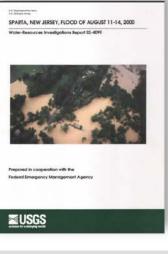


Previously released FIRMs: 4/30/2010, 6/10/2011, and 3/11/2015

Initially, the streams studied were driven by the severe flooding of August 11-14, 2000

 This flooding was documented in the USGS WRI Report 02-4099

Additional streams were later added to the project



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Problems with the Maps

	A	B	с	D	E	F
	COMMUNITY	DATE OF CORRESPONDAN		COMMENT	STREAM(s)/ PANEL(s)	DRAFT RESOLUTION
1	Township of Harding	4.10.15	8455	Flood Study Section 2.3 (Principal Flood Problems) - The list of problem flooding locations		
2				provided on Page 24, first paragraph, should be revised to delete the reference to Primrose Trail and add Lee's Hill Road at Primrose Brook and Lee's Hill Road at the Passaic River.	Primrose Brook and Passaic River	Will update road names
3	Township of Harding	4.10.15	4.15.15	This same paragraph also refers to a tributary of Great Brook that crosses Featherbed Lane and has "been insunded frequently". There is no tributary to Great Brook that crosses Featherbed Lane. This sentence should either be corrected or deleted.	tributary to Great Brook	Historic and current flood information will be reviewed and updated
4	Township of Harding	4.10.15	4.15.15	Flood study Section 3.1[Hydrologic Analysis] - The order of the first three entries for Great Brook in Table 7 are reversed. This should be corrected.	Great Brook	Table 7 will be reviewed and updated as needed
5	Township of Harding	4.10.15	4.15.15	Pload Study Section 3.1 - Table 7 should be revised to provide additional entries for the Passeic Fiver at Stream Gauges 01379000 (Millington Gorge) and 01378690 (Route 202).	Passaic River	Passaic River will be reviewed and updated as needed
8	Township of Harding	4.10.15	4.15.15	Flood Study Section 3.1 - Table 7 includes references to "North Tempe Wick Road". No such road exists.		Will compare current transportation data and update with correct name
7	Township of Harding	4.10.15	4.15.15	Flood Study Section 3.2 [Hydraulic Analysis] - Please provide the Township with a copy of all HEC RAS input and output data used to generate the revised FIRM maps for the Tributary to Great Brook.		HEC-RAS modeling can be made available
8	Township of Harding	4.10.15	4.15.15	Flood Study Section 32 (Hydraulic Analyse) - Confirm whether the updated Parsace River modeling included the new bridge construction by the NJODT # Pouz 302. Additionally, bridges on Pimmos Bhok and Greet Bhok have been replaced since the last fiload study. The Township would like to know if up to date field surveys have been completed and, if not, what is the date of the field surveys from which the flood elevisions have been derived.	Passaic River, Primrose and Great Brook	
9	Township of Harding	4.10.15	4.15.15	Flood Shudy Section 32 (Huku Julić Analysia) - Issue with siteam sectors immediately upstream of the Grants Sumany, which was acquired by the US Department of the Interior (approx 45, years ago). Distams within the swamp have list considerable cross-section Row area due to illivition and debria, a Her his has accured, and dispert upstream sections have been similarly impacted. The Tournahip regulats that FEMA confirm whether this issue has been comidered in the current perfiming PLod Shudy and determine whether wurded and waves the current perfiming PLod Shudy and determine whether wurded and waves the current perfiming PLod Shudy and the termine sectors are confirmed and the sectors and better and the PLod Shudy and the miner works wurded and the sectors are terming and the flow acceleration the been considered in the current perfiming PLod Shudy and the miner weether the subset of the sectors and the sectors are the sectors and the sectors are accelerations and the sectors and the sectors are the sectors and the sectors are accelerations and the sectors and the sectors are sectors and the sectors and the sectors are accelerations and the sectors are accelerations and the sectors are accelerations and the sectors are accelerations and the sectors and the sectors are accelerations and the sectors are accelerations and the sectors are accelerations and the sectors are accelerations and the sectors are accelerations and and the sectors are accelerations and accelerations are accelerations and the sectors are accelerations are accelerations and accelerations are accelerations are accelerations are accelerations and accelerations are accelerations are a	Great Swarpp	Adjacent streams will be logged into CNMS as need for updates due to age or study and information provided here regarding alliation and debrie
10	Township of Harding	4.10.15	4.15.15	Flood Study Section 3.2 (Hydraulic Analysis) - Provide information on how overflow from the Passaic River to Primrose Brook (from Osborne Pond) was modeled.	Passaic River, Primrose Brook	H&H to be provided
11	Township of Harding	4.10.15	4.15.15	Flood Study Section 3.2 [Hychaulic Analysis] - This section should indicate what methods were used to establish flood elevations within the Great Smartp. This generally includes the portions of Great Brook, Primose Brook, and the Passaic Bive blook the metadowaterown noce consign within the Township limits. The Township previously obtained approval from FEMA to utilize at lood profile of the Great Smartp based on measured flood deviations from Tongoid Sterm Doral August 1970. It is unclear which the proposed flood elevations within the Great Swamp were based on this profile or other data.		H&H to be provided
	Township of Harding	4.10.15	4.15.15	Flood Study - Vertical Datum - The materials provided with the report indicate that the conversion factor utilized to adjust all existing flood elevations from the NVVD 29 datum var- finds that the adjustment factor for the Township of Harding is - 0.40 feet. The Township would like to know why an adjustment factor that is 65% greater than the adjustment factor was utilized for the dath flood study. Given the accuracy of the topographic date factor was utilized for the dath flood study. Given the accuracy of the topographic date and the topographic date.		The Detum conversion is a Countywide conversion, will

Feedback from previously released panels

A **comprehensive review of ALL** the panels and FIS report was done and not just where issues were identified

• A FRESH START approach was used



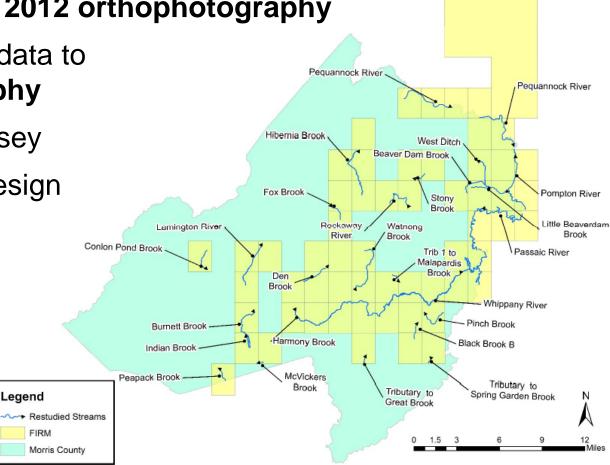


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Revised Preliminary FIS & FIRMs

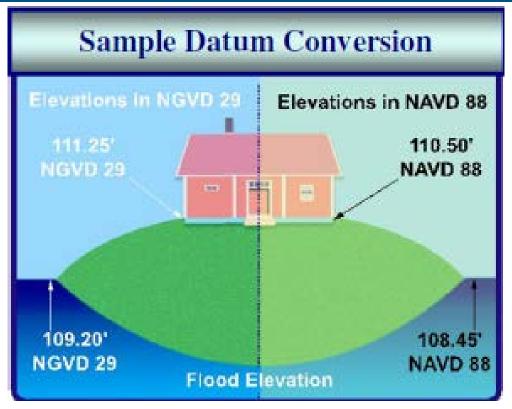
- Detailed hydrological and hydraulic analysis for 95.47 total miles of streams and rivers.
- Updated base map to 2012 orthophotography
- Updated topographic data to 2012 USGS topography
- Incorporated New Jersey
 - Flood Hazard Area Design

Flood (NJFHADF)





Vertical Datum



For Mapping purposes in Morris County: NGVD 29 – 0.8 feet = NAVD 88

If you need an exact conversion rate, you will need a lat/long

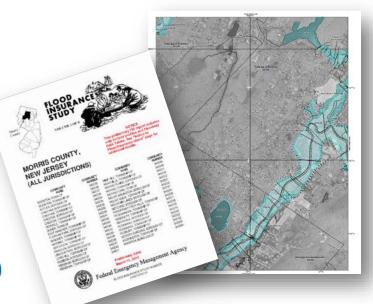
Vertical Datum Conversion Tool: <u>http://vdatum.noaa.gov/</u>

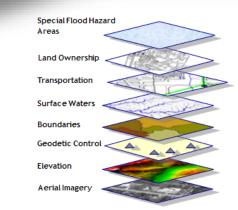




Regulatory Products

- Revised preliminary FIRM and FIS released on 2/26/2016
 - EVERY Panel has been revised
- Each community will get:
 - Revised Preliminary FIS Report (Volume 1 on paper, all others will be on DVD)
 - Revised Preliminary FIRMs (one paper copy)
 - DVDs containing digital preliminary data (e.g., FIRM panels, complete FIS report, GIS viewer and shapefiles)



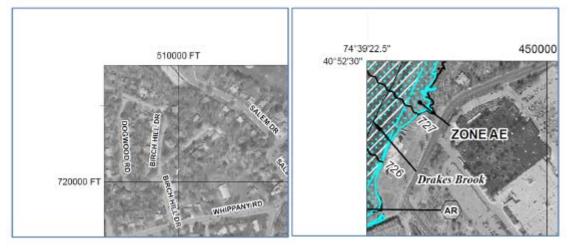








Review Results (Examples)



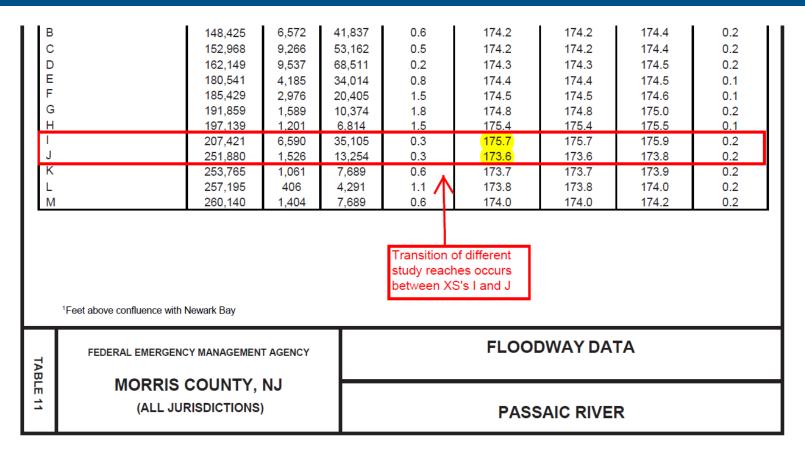
Mismatches noted for Morris County

- Discrepancies in the 1-percent-annual-chance flood elevations between adjacent communities
- Missing delineations between adjacent communities (gaps in the delineations)





Review Results (Examples)



Passaic River – Floodway Data table... Elevation discrepancy of 2.1'







Next Steps

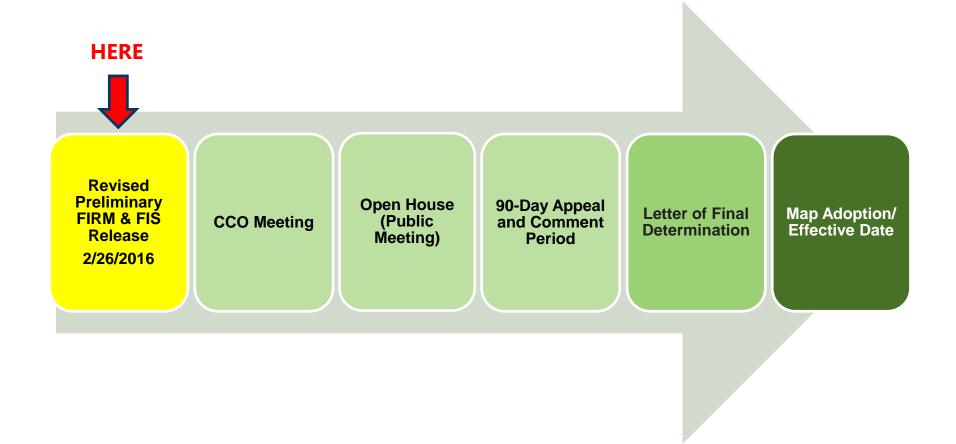
- 1. Verify your municipality boundaries are correct
- 2. Verify the Morris County boundaries are correct
- **3. Verify** your municipality road names and spelling, and the county road route numbers for the same stretch of road are correct
- **4. Consider** whether the municipality road name or the county road route number, or both, should be used on the floodplain maps. *Example: "CR# NNN" may also be known as "XXXX Highway" for the same stretch of road; which should be used?*

During your review process of the floodplain delineations and floodways, if you find discrepancies, such as differences in 100-year water surface elevations between adjacent communities and/or missing delineations between adjacent communities, you should document the discrepancies and have the information available when NJDEP and/or FEMA asks for it.





Timeline for Morris County



Insurance purchase requirements don't take effect until maps are effective





Next Meetings



Consultation Coordination Officers (CCO) Meeting

- FEMA & NJDEP will host
- FEMA's mapping team will be on hand to have technical discussions
- More detailed discussions on floodplain management and flood insurance requirements

Open House

- One on one with your residents
- Inform people about their flood risk
- Answer questions about floodplain management and flood insurance





Conclusion



Together, we all can create stronger and safer communities





Contacts

Andrew Martin FEMA Region II Mitigation Liaison 212-680-8690 or andrew.martin@fema.dhs.gov

Patricia Griggs FEMA Region II Floodplain Management & Insurance Specialist 212-680-3625 or patricia.griggs@fema.dhs.gov

Robert Schaefer FEMA Region II Mapping Lead 212-680-8808 or robert.schaefer@fema.dhs.gov

Marc Pearson Mapping Liaison, Regional Support Center 615-829-5454 or marc.pearson@stantec.com

Joseph Ruggeri NJDEP Supervising Engineer, Bureau of Dam Safety & Flood Control 609-292-2296 or joseph.Ruggeri@dep.nj.gov







Questions?



