

Lowering Flood Risk and the Cost of Flood Insurance:

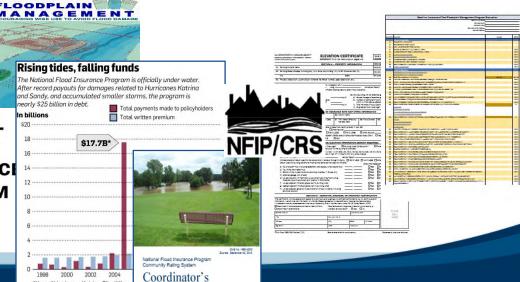
FEMA's Community Rating System (CRS)

Manual

S FEMA

Program





Sponsored by:
Southwestern Pennsylvania Commission (SPC)
Water Resource Center
February 2018

*Year of Hurricanes Katrina, Rita, Wilms





Today's Speakers



- John Mizerak, MPA
 - Community and economic development expert
 - Former PA DCED staff member, managing the Land Use Planning and Technical Assistance Program
 - Former municipal zoning and code enforcement official
- Tony Subbio, CFM
 - Emergency management and community resilience planner
 - Specializes in hazard mitigation and CRS Program services





Today's Session

- The National Flood Insurance Program (NFIP): A Refresher
- The CRS Program Basics
- Is the CRS Program Right for My Municipality?
- CRS Program Activities Common in Pennsylvania
- Entering the CRS Program



The National Flood Insurance Program A Refresher





NATIONAL FLOOD INSURANCE PROGRAM





The National Flood Insurance Program (NFIP)

- Federal program that provides flood insurance to participating communities.
- Based on an agreement between local communities and the Federal Government that:
 - ✓ a community will adopt and enforce a floodplain management ordinance.
 - ✓ The Federal Government will make flood insurance available within the community as a financial protection against flood losses.
- Private insurers write the policies based on an agreement with the federal Government





Reasons for the NFIP

- ✓ Reduce emphasis on structural flood control measures; increase emphasis on nonstructural FPM measures
- ✓ Reduce Federal disaster costs: shift burden from general taxpayers to floodplain occupants
- ✓ Provide insurance coverage not generally available on the private market.





More reasons for the NFIP

- ✓ Requires new floodplain development to meet construction standards that protect buildings against future flood damage
- ✓ Promotes sound floodplain management practices
- ✓ Provide a better form of assistance to flood victims







"At the first sign of a flood, you just push this little button."



NFIP Participation Requirements

- ✓ Participating communities are required to adopt and enforce a floodplain management ordinance the meets or exceeds requirements specified under 44 CFR 60.3 60.3.
- ✓ Continued eligibility is based on maintaining compliance, which is based on enforcement of the provisions of the Floodplain management ordinance.
- ✓ Compliance is monitored by FEMA via an audit process called a Community Assistance Visit (CAV).

An ordinance is the key!





How the NFIP Works

There are 3 basic parts to the NFIP

- 1) Mapping
- 2) Insurance
- 3) Regulations





Roles and Responsibilities

The Community Role:

- ✓ Issuing or denying floodplain development/building permits.
- ✓ Inspecting all development to assure compliance with the local regulations.
- ✓ Maintaining records of floodplain development.
- ✓ Assisting in the preparation and revision of flood maps.
- Assisting residents in obtaining information on flood hazards, map data, flood insurance and proper construction measures.



Clark Fork River, outside of Plains, Montana. Originally house was 30-40 feet from river bank and 1"above BFE.





Compliance

- "Compliance" means holding up your end of the agreement, most notable: enforcing your ordinance.
- FEMA has recourse for non-compliance through 3 approaches:
 - 1) Reclassification under the Community Rating System (CRS).
 - 2) Probation
 - 3) Suspension







OMB No. 1660-0022 Expires: March 31, 2020

National Flood Insurance Program Community Rating System

Coordinator's Manual

FIA-15/2017





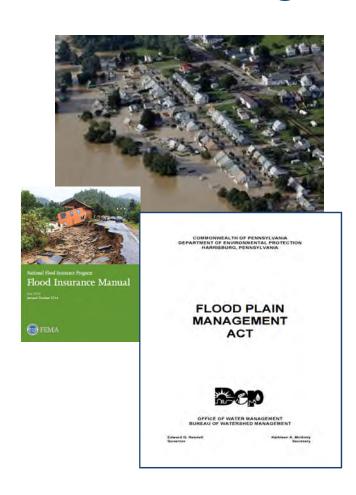
The Community Rating System (CRS) Program – The Basics





The Goals of the CRS Program

- Reduce flood damages to insurable property
- Strengthen and support the insurance aspects of the NFIP
- Promote a comprehensive approach to floodplain management







CRS Program Overview



CRS Program Basics

- Part of the National Flood Insurance Program (NFIP)
 - Administered by FEMA
- Provides for reduced flood insurance premiums where there is better floodplain management.
- Promotes floodplain management practices above and beyond the minimum NFIP requirements.
- Administered by the Insurance Services Office (ISO)
 - ISO/CRS Specialist





CRS Program Overview

- 19 creditable activities in four categories
- Can get credit from 94 elements
- Flood insurance discounts ranging from 5-45%
- Class 4 and above particularly strenuous requirements

		Premium Reduction				
CRS Class	Credit Points (cT)	In SFHA	Outside SFHA			
1	4,500+	45%	10%			
2	4,000-4,499	40%	10%			
3	3,500-3,999	35%	10%			
4	3,000-3,499	30%	10%			
5	2,500-2,999	25%	10%			
6	2,000-2,499	20%	10%			
7	1,500-1,999	15%	5%			
8	1,000-1,499	10%	5%			
9	500-999	5%	5%			
10	0-499	0	0			

Series 300	Series 400	Series 500	Series 600		
Public Information	Mapping and Regulations	Flood Damage Reduction	Flood Preparedness		
Elevation Certificates	Floodplain Mapping	Floodplain Mgt. Planning	Flood Warning Program		
Map Information Service	Open Space Preservation	Acquisition and Relocation	Levee Safety		
Outreach Projects	Higher Regulatory Standards	Flood Protection	Dam Safety		
Hazard Disclosure	Flood Data Maintenance	Drainage System Maintenance			
Flood Protection Information	Stormwater Management				
Flood Protection Assistance					
Flood Insurance Promotion					





How does the CRS Program work?

- ✓ Has Application prerequisites
- ✓ Community activities are scored based on a schedule.
- ✓ Performance of activities is verified
- ✓ Classification (1-10) assigned.
- √ 5% reduction in flood insurance/class
- Classifications are recertified annually.
- ✓ Classifications are re-verified on a 3-5 cycle depending upon classification.





Application Prerequisites

- Must be in regular phase of the NFIP for at least 1 year
- Must be in full compliance with the minimum requirements of the NFIP
- Agree to maintain FEMA Elevation Certificates.
- Assess and address FEMA identified repetitive loss properties (If applicable)
- Maintain flood insurance coverage of community owned buildings within the floodplain.
- Coastal communities agree to show LiMWA on their FIRM





Classification Prerequisites

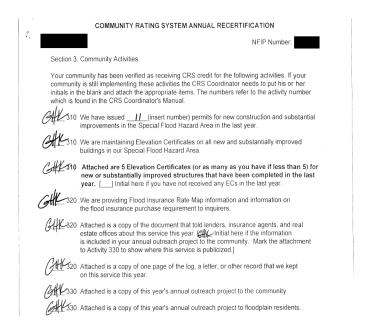
- a. Class 9 Prerequisites: There are six prerequisites to become and stay a Class 9 or better community. They include being in full compliance with the minimum requirements of the National Flood Insurance Program (NFIP), receiving credit for maintaining FEMA Elevation Certificates, and meeting repetitive loss criteria.
- b. Class 6 Prerequisite: To become a Class 6 or better community, a community must have received a classification of 5/5 or better under the Building Code Effectiveness Grading Schedule.
- c. Class 4 Prerequisites: To become a Class 4 or better community, a community must demonstrate that it has programs that minimize flood losses, minimize increases in future flooding, protect natural floodplain functions, and protect people from the dangers of flooding.
- d. Class 1 Prerequisites: To become a Class 1 community, a community must have had a successful Community Assistance Visit conducted by FEMA within the previous 12 months and demonstrate that it has a "no adverse impact" program by receiving a certain number of points for designated activities.





The CRS Program – Basics

- Annual Recertification
 - Are you still doing everything for which you earned credit?



Cycle Re-verification



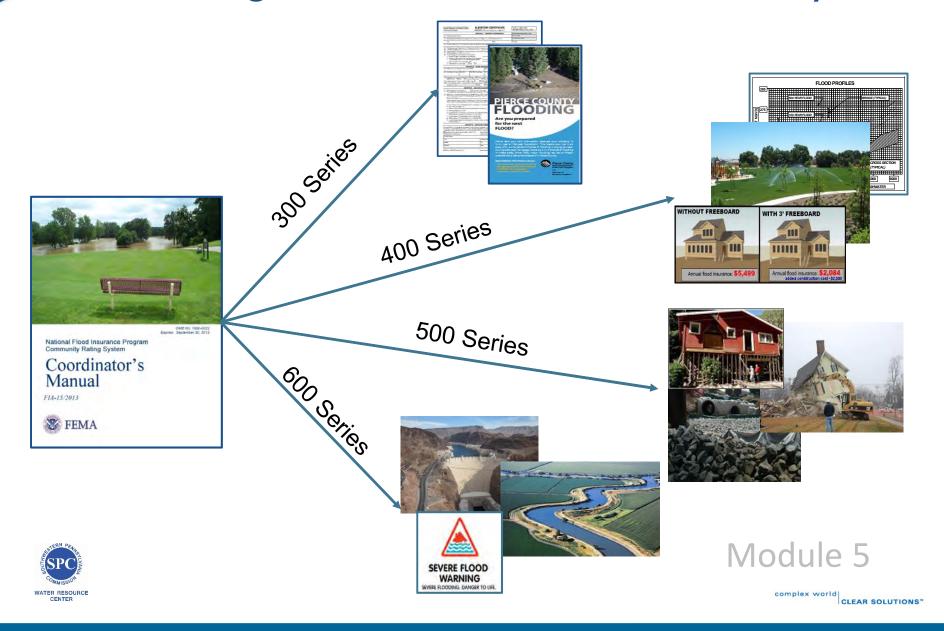


Let's take a break





CRS Program Activities Common in Pennsylvania





Elevation Certificates

- This is *REQUIRED* for all communities in the CRS Program!
- Maintain complete and correct FEMA ECs for new and substantially damaged/improved buildings in the SFHA
 - 38 points





The EC and CRS

- Maintaining ECs means:
 - All new construction/substantial improvements must have a completed EC.
 - The ECs must be complete and "error-free"
 - Regardless of the amount of verified credit a community has, failure to maintain ECs can lead to a retrogression to Class 10!





The Current EC

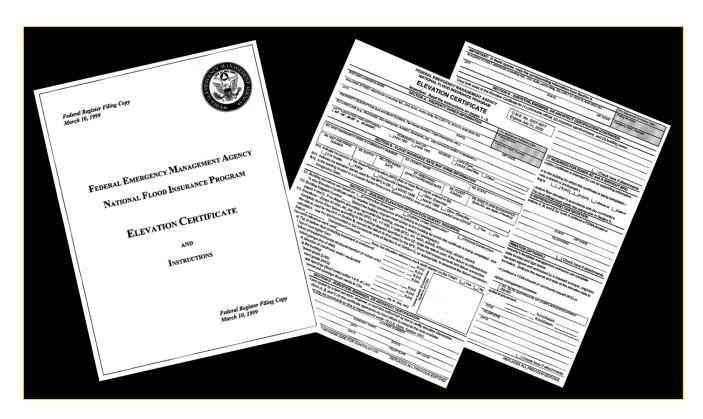
- The Current form (086-0-33) is dated 7/2015
- Permits issued after 7/2015 must use this form.
- ECs must be 100% correct for CRS. (They will be audited)
- ECs must be based on "finished" construction
- Note-It is within the community's authority to not accept an incomplete or inaccurate EC.

U.S. DEPARTMEN Federal Emergeno National Flood Insur	y Manageme					OMB No. 16 Expiration 0	60-0008 late: November 30, 2018
					RTIFICA ns on pages 1-		
Copy all pages of the	s Elevation Ce	rtificate and all attachs	ments for	(1) commun	ty official, (2) ins	surance agent/compar	ry, and (3) building owner
	SEC	TION A - PROPERTY	INFOR	MATION		FOR INSU	RANCE COMPANY USE
A1. Building Own	ers Name					Policy Num	ber:
A2. Building Stree Box No.	et Address (In	cluding Apt., Unit, Suit	te, and/or	Bidg. No.) o	r P.O. Route an	Company h	(AIC Number:
City				State		ZIP Code	
A3. Property Des	cription (Lot a	nd Block Numbers, To	ax Parcel	Number, Le	gai Description,	etc.)	
A4. Building Use	(e.g., Resider	tial, Non-Residential,	Addition,	Accessory,	etc.)		
A5. Latitude/Long	tude: Lat.		Long.		Horizon	ntal Datum: NAD	1927 NAD 1983
A6. Attach at leas	st 2 photograp	hs of the building if th	e Certific	ate is being i	used to obtain fi	ood insurance.	
A7. Building Diag	ram Number						
		pace or enclosure(s):					
a) Square fo	otage of crawl	space or enclosure(s)			sq ft		
		ood openings in the cr				oot above adjacent or	ade
		penings in A8.b					
		gs? Yes I		_			
u) Digitali	u noou openi	os. Lives Li	WO .				
A9. For a building	with an attach	ned garage:					
a) Square for	otage of attach	ed garage		sq 1	t		
b) Number of	permanent fo	ood openings in the at	tached g	arage within	1.0 foot above a	adjacent grade	
c) Total net a	rea of flood or	penings in A9.b		90	In		
		gs? Yes P					
	86	CTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) II	NFORMATION	
B1. NFIP Commu	nity Name & C	Community Number		B2. County	Name		B3. State
B4. Map/Panel Number	BS, Suffix	B6. FIRM Index Date	Effe	M Panel ective/ ised Date	B8. Flood Zone(s)	B9. Base Flood 8 (Zone AO, us	Devation(s) e Base Flood Depth)
3.7.7.1							
		Base Flood Elevation				red in Item B9:	
FIS Prof	le FIRM	Community Deter	mined	Other/Sou	rce		
B11. Indicate ele	vation datum i	used for BFE in Item 8	9: 🗌 N	GVD 1929	NAVD 1988	Other/Source:	
B12. Is the build	ng located in a	Coastal Barrier Reso	ources Sy	stem (CBRS) area or Other	wise Protected Area (OPA)? Yes No
Designation	Date:		CBRS	OPA			
T111 Fr 507 F	2 (2)(5)			ell esserte	-481		Form Page 1 o
EMA Form 086-0-3	Se (7/15)		and area	all previous	CONSTITUTE.		Form Page 10





The Elevation Certificate FEMA Form 81-31





See you in May 2018!



Public Information Activities

- Advise people about the flood hazard
- Encourage the purchase of flood insurance
- Provide information about ways to reduce flood damage.
- Generate data needed by insurance agents for accurate flood insurance rating.
- Program for Public Information (PPI)
- Stakeholder delivery bonus





Public Information Activities

- Map Information
 - Credit based on what information you can provide an inquirer
 - Must publicize that the service is available

- Basic FIRM information =30 points
- Additional FIRM information = 20 points
- Problems not shown in the FIRM = 20 points
- Flood Depth Data = 20 points
- Special flood related hazards = 20 points
- Historical flood information= 20 points
- Natural Floodplain Function= 20 points

- Outreach Projects
 - Brochures in the municipal building
 - Mailers
 - Newsletter
 - Speaking to community groups







Public Information Activities

- Hazard Disclosure
 - Real estate disclosure requirement
- Flood Protection Information
 - FEMA publications in the local library
 - Additional/local publications in the local library
 - Website
- Flood Protection Assistance
 - One-on-one, property-specific assistance
 - Site visits
 - Financial advice
 - Provider training





Mapping and Regulations

- Open Space Preservation (up to 2,870 points)
 - Preserve vacant land
 - Deed restrictions
 - Open space incentives
 - Low-density zoning
- Higher Regulatory Standards (up to 2,462 points)
 - Freeboard
 - 1 foot 100 points
 - 1.5 feet 162 points
 - 2 feet 225 points
 - Cumulative or lower substantial improvements
 - Building code
 - State-mandated regulatory standards





Mapping and Regulations

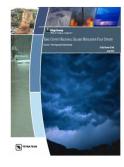
- Stormwater Management (up to 755 points)
 - Stormwater management regulations
 - Watershed master plan
 - Erosion and sedimentation controls
 - Water quality regulations
 - MS4 requirements?





Flood Damage Reduction Activities

- Floodplain Management Plan
 - Flood-specific mitigation plan
 - FEMA DMA 2000 Hazard Mitigation Plan (HMP)
- Repetitive Loss Area Analysis
 - Detailed mitigation plan for specific repetitive loss areas









Flood Damage Reduction Activities

- Acquisitions/Relocations
 - Buildings in the floodplain
 - Repetitive loss and severe repetitive loss properties
- Flood Protection
 - Retrofitting
 - Elevation
 - Wet/Dry floodproofing
 - Sewer backup protection
 - Barriers
 - Structural flood control (e.g., storage facilities)







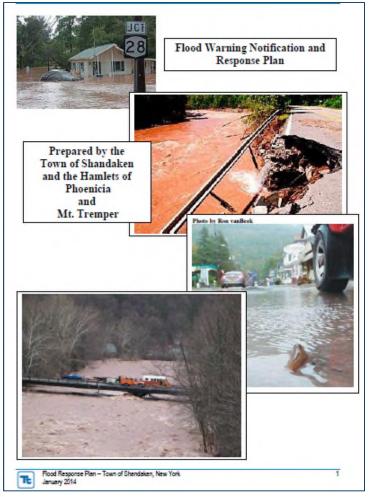
Flood Warning and Response

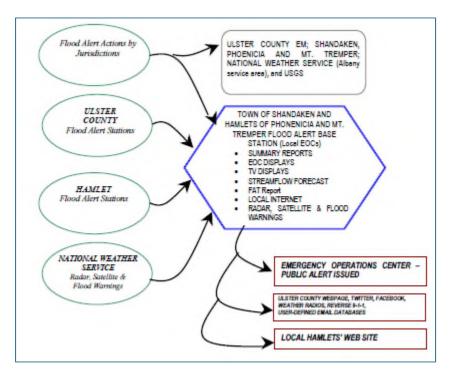
- StormReady certification is credited under this activity, BUT...
- You need to earn credit under these to get the points for StormReady
 - Flood threat recognition
 - Emergency warning
 - Flood response operations
 - Critical facilities planning





Flood Warning and Response Plan









What is State-Based Credit?

- This is credit that has been verified for all participating communities based on uniformly applied programs at the state level.
- In Pennsylvania, all communities get 10 points for the real estate disclosure.

State-based Credit

Activity 340 Hazard Disclosure, Other Disclosure Requirements (ODR) – Credit is provided for the state's requirement that sellers disclose any past or present flooding problems, and whether a property is in a flood zone or wetland. (10 points)

Activity	Element	Points
340 - Hazard Disclosure	Other Disclosure Requirements (ODR)	10

Other Potential Credit

ISO/CRS Specialists and the communities need to determine which credits apply to their area. The following is a summary of activities that are potential credits:

Activity	Element
430 - Higher Regulatory Standards	Building Codes (BC)*
430 - Higher Regulatory Standards	Local Drainage Protection (LDP)*
430 - Higher Regulatory Standards	State-mandated Standards (SMS)
430 - Higher Regulatory Standards	Other Higher Standards (OHS)*
450 - Stormwater Management	Erosion and Sediment Control (ESC)
450 - Stormwater Management	Water Quality (WQ)
630 - Dams	State Dam Safety (SDS)

^{*}Indicates potential state-mandated credits





Any Questions?





Is the CRS Program Right for My Municipality?

- Compliance Issues
 - Lax enforcement of community regulations
 - Improper variances
- Administrative Requirements
 - Documentation
 - Documentation
 - DOCUMENTATION!





Is the CRS Program Right for My Municipality?

Financial Benefits

Community		Estimate			Potential Annual Premium Savings								
	Number		Policies	Total	Class 9	Class 8	Class 7	Class 6	Class 5	Class 4	Class 3	Class 2	Class 1
	of NFIP Policies	In the SFHA Outside of the SFHA	Annual Premiums	5%/ 5%	10%/ 5%	15%/ 5%	20%/	25%/ 10%	30%/ 10%	35%/ 10%	40%/ 10%	45%/ 10%	
Green Tree, Borough of	S	7	1	\$6,293	\$315	\$590	\$865	\$1,180	\$1,455	\$1,731	\$2,006	\$2,281	\$2,557
Hampton, Township of	44	36	8	\$93,062	\$4,653	\$8,460	\$12,267	\$16,920	\$20,727	\$24,535	\$28,342	\$32,149	\$35,956
Harmar, Township of	36	29	7	\$45,253	\$2,263	\$4,085	\$5,908	\$8,171	\$9,993	\$11,816	\$13,639	\$15,461	\$17,284
Harrison, Township of	10	8	2	\$8,613	\$431	\$775	\$1,120	\$1,550	\$1,895	\$2,239	\$2,584	\$2,928	\$3,273
Haysville, Borough of	- 5	4	1	\$8,656	\$433	\$779	\$1,125	\$1,558	\$1,904	\$2,251	\$2,597	\$2,943	\$3,289
Heidelberg, Borough of	40	32	8	\$36,150	\$1,808	\$3,254	\$4,700	\$6,507	\$7,953	\$9,399	\$10,845	\$12,291	\$13,737
Homestead, Borough of	1	1	0	\$1,593	\$80	\$159	\$239	\$319	\$398	\$478	\$558	\$637	\$717
Indiana, Township of	26	21	5	\$28,952	\$1,448	\$2,617	\$3,786	\$5,234	\$6,403	\$7,572	\$8,741	\$9,910	\$11,080
Ingram, Borough of	5	4	1	\$3,215	\$161	\$289	\$418	\$579	\$707	\$836	\$965	\$1,093	\$1,222
Jefferson Hills, Borough of	39	32	7	\$67,568	\$3,378	\$6,150	\$8,922	\$12,301	\$15,073	\$17,845	\$20,617	\$23,389	\$26,161
Kennedy, Township of	4	4	0	\$1,476	\$74	\$148	\$221	\$295	\$369	\$443	\$517	\$590	\$664
Kilbuck, Township of	8	7	1	\$21,033	\$1,052	\$1,972	\$2,892	\$3,944	\$4,864	\$5,784	\$6,704	\$7,624	\$8,545
Leet. Township of	37	30	7	\$29,117	\$1,456	\$2,636	\$3,817	\$5,273	\$6,453	\$7,633	\$8,814	\$9,994	\$11,175
Leetsdale, Borough of	40	32	8	\$108,214	\$5,411	\$9,739	\$14,068	\$19,479	\$23,807	\$28,136	\$32,464	\$36,793	\$41,121
Lincoln, Borough of	2	2	0	\$1,044	\$52	\$104	\$157	\$209	\$261	\$313	\$365	\$418	\$470
Marshall, Township of	26	21	5	\$24,554	\$1,228	\$2,219	\$3,211	\$4,439	\$5,430	\$6,422	\$7,413	\$8,405	\$9,397
Mccandless, Town of	62	50	12	\$89,566	\$4,478	\$8,090	\$11,701	\$16,180	\$19,791	\$23,403	\$27,014	\$30,626	\$34,237
Medonald, Borough of	17	14	3	\$12,863	\$643	\$1,173	\$1,702	\$2,346	\$2,875	\$3,405	\$3,935	\$4,464	\$4,994
Mckees Rocks, Borough of	79	64	15	\$234,315	\$11,716	\$21,207	\$30,698	\$42,414	\$51,905	\$61,396	\$70,888	\$80,379	\$89,870
Mckeesport, City of	42	34	8	\$74,077	\$3,704	\$6,702	\$9,701	\$13,404	\$16,403	\$19,401	\$22,399	\$25,398	\$28,396
Millvale, Borough of	123	99	24	\$176,940	\$8,847	\$15,968	\$23,089	\$31,936	\$39,056	\$46,177	\$53,298	\$60,419	\$67,539
Monroeville, Municipality of	32	26	6	\$33,557	\$1,678	\$3,041	\$4,404	\$6,082	\$7,445	\$8,809	\$10,172	\$11,535	\$12,898
Moon, Township of	32	26	6	\$19,764	\$988	\$1,791	\$2,594	\$3,582	\$4,385	\$5,188	\$5,991	\$6,794	\$7,597
Mt. Lebanon, Municipality of	48	39	9	\$20,253	\$1,013	\$1,835	\$2,658	\$3,671	\$4,494	\$5,316	\$6,139	\$6,962	\$7,785



Policies versus structures in the floodplain





Entering the CRS Program

- Application
 - Floodplain Management **Ordinance Review** Checklist

– HMP

– CRS Quick Check



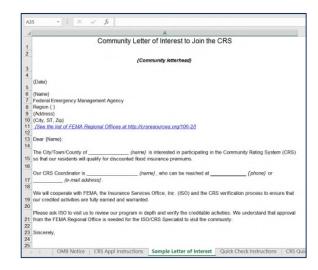


A B	C	D	E		- 0	H I	J K	M	N
		CRS Quick Che	ock						
Com	munity name		State			9CEG8 10			
,	#IP Number		FIRM Effective Date						
	Population		Current FIRM Date						
App	lication Date		County				-		
		Chief Executive Officer	CRS Coordin	rior					
	Name								
	Title								
	Address								
	Address	CRS Coordinator's phone					-		
		CRS Coordinator's e-mail		Fas			-		
		CRS Coordinators e-mail							
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Section	A Service Service Service	Prerequisites I a Comment of contents Visit that concluded any sure of all complex	on with the MERCY	Met	Meet	Enter	Notes	Date Dec	h budgette
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Entering the CRS Program

- Application
 - Review Repetitive Loss Property List
 - Require ECs for all new as-built construction in the floodplain
 - Training
 - L273: Managing Floodplain Development through the NFIP
 - CFM
 - Letter of Intent

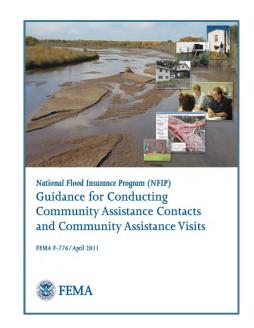






Entering the CRS Program

- Community must be certified as complying with the NFIP
- HOW?
- Community Assistance Visit (CAV)
 - Performed by FEMA Regional Office or State NFIP Coordinator
 - Documentation review
 - Tour of the floodplain
- Certification Audit









Keys to Success

- Don't wait for the CAV to identify problems.
- Know what they will be looking for.
- Documentation, documentation, documentation!
- See CAV guidance
 - https://www.fema.gov/medialibrary/assets/documents/23575



Guidance for Conducting
Community Assistance Contacts
and Community Assistance Visits

FEMA F-776/April 2011







Final Questions?





Thank you!



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