

An Overview of the Community Rating System (CRS)

Knox County Abbie Sherwin, CFM June 15, 2017





Presentation Overview

- CRS overview
- Application process
- Benefits and challenges
- CRS in Maine
- Available resources
- Q&A



Acronyms

- CRS Community Rating System
- NFIP National Flood Insurance Program
- FEMA Federal Emergency Management Agency
- ISO Insurance Services Office

What is CRS?

- Voluntary NFIP program implemented in 1990
- Encourages and rewards community actions that exceed minimum floodplain requirements
- Provides discounted flood insurance
- Reduces flood risk
- Incentivizes resilience



3 Goals of CRS

- 1. Reduce flood damage to insurable property
- 2. Strengthen and support the insurance aspects of the NFIP
- 3. Encourage a comprehensive approach to floodplain management

CRS Rating Table

Class	Points	Premium Discount	
10	0-499	0%	
9	500-999	5%	
8	1000-1499	10%	
7	1500-1999	15%	
6	2000-2499	20%	
5	2500-2999	25%	
4	3000-3499	30%	
3	3500-3999	35%	
2	4000-4499	40%	
1	4500+	45%	

- Premium discounts apply to SFHA
- Non-SFHA
 - 10% discount for Classes 1-6
 - 5% discount for Classes 7-9
- Preferred Risk Policies (PRPs) and minus-rated policies are not eligible for discounts

CRS Activities & Elements

300: Public Information Activities

 Outreach, hazard disclosure, insurance promotion

400: Mapping and Regulations

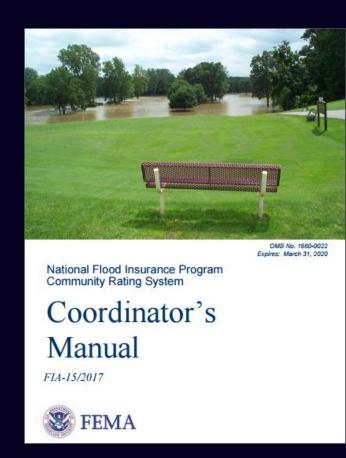
 Floodplain mapping, open space preservation, stormwater management

<u>500</u>: Flood Damage Reduction

 Acquisition/relocation, flood protection of structures, drainage maintenance

600: Warning and Response

 Flood emergency response and warnings, levee/dam safety





Master List of Community Rating System (CRS) Activities and Elements

			Information Activities	<u>Max</u>	<u>Page</u>			ng and Regulations	Max	Page
310	(E16/	ation Cer	rtificates)			410 (Floo	odplain M	apping)		
	a	EC	Elevation Certificates after CRS application	38	310-12	а	NS	New study	350	410-8
	b	ECPO	Elevation Certificate on post-FIRM buildings	48	310-13	b	LEV	Leverage	N/A	410-14
	C	ECPR	Elevation Certificate on pre-FIRM buildings	30	310-15	С	SR	State review	60	410-16
320	(Map	Informat	tion Service)			d	HSS	Higher study standards	200	410-18
	a	MI1	Providing insurance information from FIRM	30	320-8	е	FWS	Floodway standard	140	410-21
	b	MI2	LiMWA/floodway info/CBRS area	20	320-10	f	MAPSH	Special hazards mapping	100	410-24
	C	MI3	Other flood problems not shown on FIRM	20	320-11	420 (Ope	n Space I	Preservation)		
	d	MI4	Flood depth data	20	320-11	a	OSP	Preserved open space	1,450	420-3
	е	MI5	Special flood-related hazards	20	320-13	b	DR	Deed restriction	50	420-12
	f	MI6	Historical/repetitive flood information	20	320-14	С	NFOS	Natural functions open space	350	420-14
	g	MI7	Natural floodplain functions	20	320-15	d	SHOS	Special hazards open space	150	420-19
330	(Out	reach Pro	ojects)			e	CEOS	Coastal erosion open space	750	420-20
	a	OP	Outreach projects	200	330-6	f	OSI	Open space incentives	250	420-21
	b	FRP	Flood response preparations	50	330-9	g	LZ	Low density zoning	600	420-28
	С	PPI	Program for Public Information bonus	N/A	330-14	h	NSP	Natural shoreline protection	120	420-30
	d	STK	Stakeholder bonus	50	330-20	430 (High	her Regul	atory Standards)		
340	(Haz	ard Discl	osure)			а	DL	Development limitations	1,330	430-6
	a	DFH	Real estate agent disclosure of SFHA	35	340-3	b	FRB	Freeboard	500	430-11
	b	ODR	Other disclosure requirements	25	340-5	С	FDN	Foundation protection	80	430-16
	С	REB	Real estate brochure	12	340-7	d	CSI	Cumulative substantial improvements	90	430-18
	d	DOH	Disclosure of other hazards	8	340-10	е	LSI	Lower substantial improvements	20	430-19
350	(Floo	od Protec	tion Information)			f	PCF	Protection of critical facilities	80	430-21
	a	LIB	Library	10	350-3	g	ENL	Enclosure limits	240	430-23
	b	LPD	Locally pertinent documents in the library	10	350-5	ĥ	BC	Building code	100	430-26
	С	WEB	Website	105	350-7	i	LDP	Local drainage protection	120	430-30
360	(Floo	od Protec	tion Assistance)			j	MHP	Manufactured home park	15	430-31
	a	PPA	Property protection advice	40	360-4	k	CAZ	Coastal A Zone regulations	500	430-32
	b	PPV	Advice after a site visit	45	360-6	1	SHR	Special hazards regulations	100	430-38
	С	FAA	Financial assistance advice	15	360-7	m	TSR	Tsunami hazard regulations	50	430-46
	d	TNG	Training	10	360-10	n	CER	Coastal erosion regulations	370	430-48
370	(Floo	od Insurai	nce Promotion)			0	OHS	Other higher standards	100	430-52
	a	FIA	Flood insurance assessment	15	370-3	p	SMS	State-mandated standards	20	430-53
	b	CP	Coverage plan	15	370-6	q	RA	Regulations administration	67	430-55
	С	CPI	Plan implementation	60	370-9	,				
	d	TA	Technical assistance	20	370-12					

Activity

Elements

Credit Criteria

▶ 310 ELEVATION CERTIFICATES—Summary

Maximum credit: 116 points

312 Elements

- a. Maintaining Elevation Certificates (EC): Up to 38 points for maintaining Federal Emergency Management Agency (FEMA) Elevation Certificates on all buildings built in the Special Flood Hazard Area (SFHA) after the date of application to the Community Rating System (CRS). All communities applying to the CRS must apply for this element. The community must make copies of the certificates available to all inquirers.
- b. Maintaining <u>Elevation Certificates for post-FIRM buildings</u> (ECPO): Up to 48 points for maintaining Elevation Certificates on buildings built before the date of application to the CRS but after the initial date of the Flood Insurance Rate Map (FIRM).
- c. Maintaining <u>Elevation Certificates for pre-FIRM buildings</u> (ECPR): Up to 30 points for maintaining Elevation Certificates on buildings built before the initial date of the FIRM.

Credit Criteria

All three elements of this activity have the same credit criteria, described in Section 311.b.

- a. The community must maintain completed Elevation Certificates showing the "finished construction" elevations for all buildings constructed or substantially improved in the SFHA during the period credited.
- For floodproofed buildings, a FEMA Floodproofing Certificate is needed instead of an Elevation Certificate. Other certificates may be needed in coastal high hazard areas and for floodproofed residential basements.
- The community must ensure that the certificates are complete and the information correct.
- The community must make copies of Elevation Certificates readily available to anyone upon request.

Impact Adjustment

There is no impact adjustment for EC. The credit for ECPO and ECPR are adjusted based on the number of post-FIRM and pre-FIRM buildings in the community.

Documentation Provided by the Community

Each element has a separate section describing needed documentation.

Required ______
Documentation

Minimum Requirements

- Join & participate in NFIP for 1 year
- Full compliance with minimum NFIP regulations
- Maintain elevation certificates (new construction)
- Meet repetitive loss criteria: info gathering, mapping, outreach, mitigation plan
- Flood insurance for locality-owned property in SFHA (where required)
- Show <u>Li</u>mit of <u>M</u>oderate <u>W</u>ave <u>A</u>ction (LiMWA) line on new FIRMs

How do Communities participate?

- Municipalities participate
- Any community in full compliance with NFIP may apply
- Can apply at any time
- CRS Class changes occur 2 times each year
 - May 1st and October 1st

Application Process

Designate a CRS
Coordinator



- Submit to FEMA Regional Office
- Signed by community official with authority to implement and administer local laws, ordinances, and regulations.



Complete CRS
Quick Check

- Show you are implementing activities that would receive at least 500 credit points
- Estimated public reporting burden is 45 hours per response



FEMA approves submittal



Community
Assistance Visit
(CAV) from FEMA &
Verification Visit
from ISO Specialist

CRS Quick Check										
Cor	nmunity	y Name				Stat	te			¥
	NFIP N	Number				Initial FIR	M Date			
	Pop	pulation				Current FIF	RM Date			
D	ate Cor	mpleted				Cour	nty			
		(Chief Executive Officer			CRS	Coordinat	tor		
Nam	e									
Title										
Addre	ss									
Addres	SS									
	CRSC	Coordinato	r's phone number			Fax				
			•			Гах				_
	CRS C	Coordinator	's e-mail address							
Sect	tion		Prerequisites		Es	stimate	Y	'es	Not Yet	
211	a(2)	Have you are in full	had a Community Assistance Visit that concluc compliance with the NFIP?	ded you						
	a(4)	How man	iny repetitive loss properties are there in your community?							
	a(4)		your repetitive loss category? (A = no rep losses, B = 1 - 50 or more)							
	a(5)	Have you r	u maintained flood insurance policies on all buildings owned by nmunity that have been required to have one?							
213	а	How man	y buildings are in your community's Special Flo rea?	od						
	а	How large acres)?	e is your community's Special Flood Hazard Are	ea (in						
-										

CRS Activity				Response		
& Sections		CRS Activities and Elements	Yes, currently	Will begin providing	Will consider	Primary documentation that will be needed (other documentation or information will be required for each activity):
310		Will you keep FEMA Elevation Certificates on all new buildings and substantial improvements in the SFHA?				
	. n. 1	Do you have FEMA Elevation Certificates on buildings built before your CRS application?				Copies of elevation certificates
320		Are you willing to publicize that you will read FIRMs for inquirers and keep a record of what you told them?				Copy of publicity
		Do you provide inquirers with other non-insurance related information that is shown on your FIRM?				
		Do you provide information about flood problems other than those shown on the FIRM?				
	d	Do you provide information about flood depths?				
		Do you provide information about special flood-related hazards, such as erosion, subsidence, or tsunamis?				
		Do you provide information about past flooding at or near the site in question?				
		Do you provide information about areas that should be protected because of their natural floodplain functions?				

 Highlighted items indicate the activities that will likely get your community to the minimum 500 points

After the Application

- Community's activities and performance are reviewed during a verification visit
- FEMA determines credit and notifies the community, state, insurance companies, and other appropriate parties
- Annual Recertification
 - Community must verify it's continuing to perform the activities that are being credited by the CRS by submitting an annual recertification.
- Cycle Visit
 - Every 5 years
- Can improve class rating by undertaking additional activities

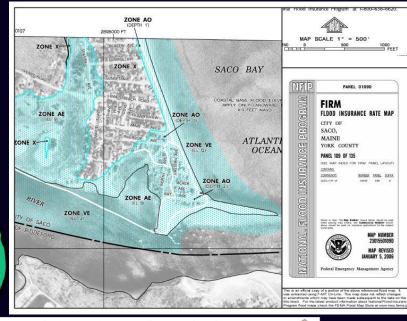
Challenges

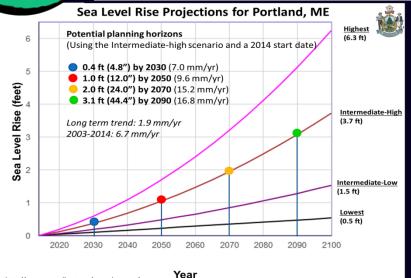


- Strained resources
- Lack of capacity
- Arduous requirements
- Incentive disparity
- Insufficient return on investment
- Lack of awareness and knowledge
- Politicized

Why Participate?

- Increasing premiums
 - BW12
 - HFIAA
- New FIRMs
- Changing conditions





Every time a CRS rating increases by one class (reducing premiums by 5%), the average amount of flood damage in that community decreases by \$303K

 Actions required to earn one class increase protect a community against the flooding caused by ≈2 inches of rain Brody, et. al, *The Rising Cost of Floods*, Journal of
the American Planning
Association (2007)

Overall, on average, from 1999 – 2009 CRS communities experienced:

- ~38% less insured flood damage in the SFHA compared to non-CRS communities
- ~36% less insured flood damage outside the SFHA compared to non-CRS communities

PRELIMINARY STUDY Evaluating the Effectiveness of the Community Rating System: A National Study

Wesley E. Highfield & Samuel D. Brody
Center for Texas Beaches & Shores
Department of Marine Sciences
Texas A&M University at Galveston

Benefits

- Financial savings
 - Money stays in the community
- Beyond the money...
 - Land use management
 - Hazard mitigation planning
 - Awareness of flood risk
 - Protect natural areas and benefits of natural floodplains
 - Enhance community resilience

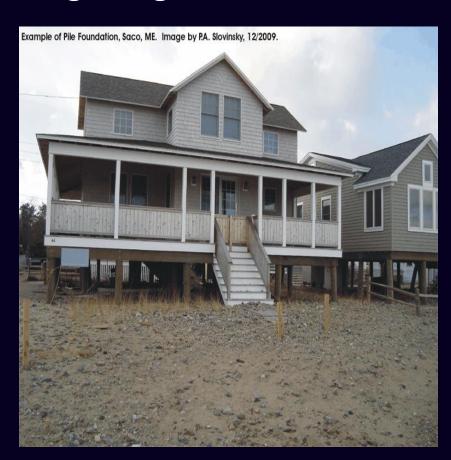


There's Good News!

Many communities are *already* doing things that

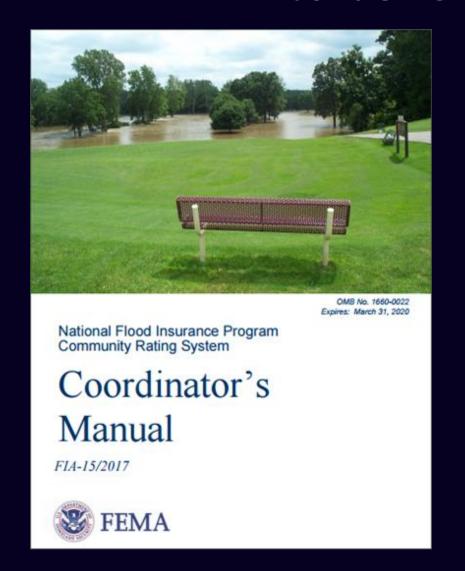
qualify for CRS credit

- Comprehensive planning
- Outreach and education
- Building code
- Freeboard
- Shoreland Zoning





Communities don't have to participate to benefit...



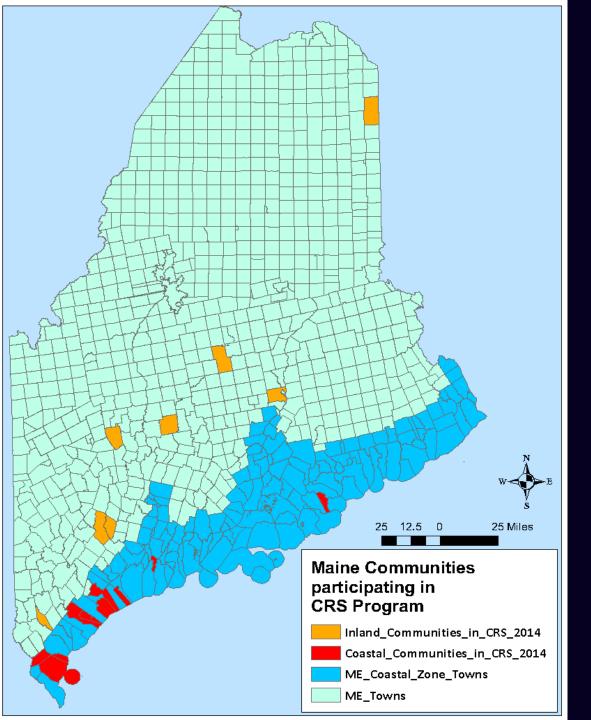
CRS Coordinator's

Manual presents a

menu of detailed

options for increasing
flood resilience

CRS in Maine



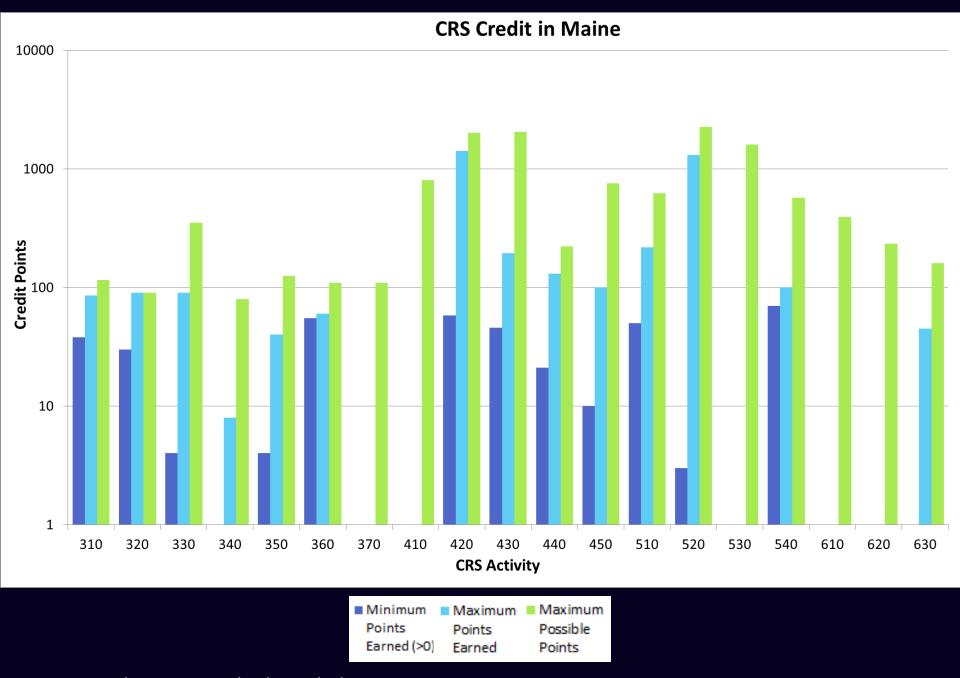
Participation in the CRS Program

Statewide
17 communities of 889*
(2%)

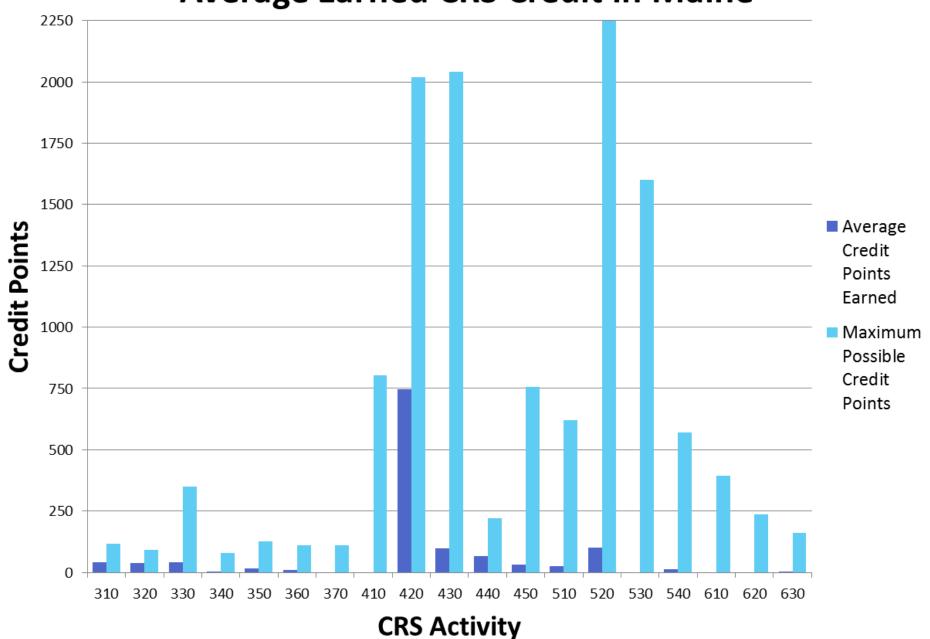
In the Coastal Zone
9 coastal communities of
141* (6%)

* includes unorganized and unincorporated territories that participate in the NFIP.

Community	Class
Alfred	8
Arrowsic	9
Auburn	9
Cape Elizabeth	8
Dover-Foxcroft	9
Farmington	8
Fort Fairfield	7
Lewiston	8
Ogunquit	8
Old Orchard Beach	8
Old Town	7
Portland	8
Saco	8
Skowhegan	8
South Berwick	7
Southwest Harbor	9
York	7 As of 05/01/17



Average Earned CRS Credit in Maine



Average Earned CRS Credit in Maine 901 801 701 Average **Credit Points** 601 Credit **Points** 501 Earned Maximum 401 Possible Credit **Points** 301 201 101 320 330 340 350 360 370 410 450 510 520 530 540 610 620 630 **CRS Activity**

Activities With the Biggest Payoff

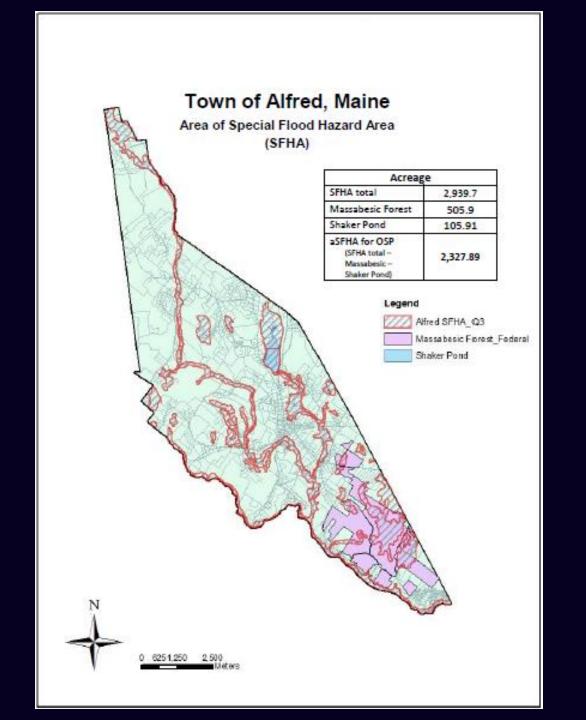
Activity Number	Activity Name	Max. Possible	Average Earned	Max. Earned	Min. Earned
420	Open Space Preservation	2020	748	1416	58
430	Higher Regulatory Standards	2042	97	194	46
440	Flood Data Maintenance	222	65	131	21

420: Open Space Preservation

- Objectives
 - Prevent flood damage by keeping flood-prone lands free of development
 - Protect and enhance the natural functions of floodplains
- Credit for development restrictions
 - Deed restrictions, lowdensity development



rOSP = <u>aOSP</u>aSFHA



Knox County

Federal Emergency Management Agency NFIP Policy and Claims Report MAINE

County	Number Policies	Total Coverage	Total Premium	Total Claims Since 1978	Total Paid Since 1978
ANDROSCOGGIN COUNTY	214	\$ 40,956,900	\$ 212,744	124	\$ 777,146
AROOSTOOK COUNTY	181	\$ 28,081,400	\$ 156,663	360	\$ 4,391,231
CUMBERLAND COUNTY	1,428	\$ 374,869,900	\$ 1,450,428	408	\$ 3,122,739
FRANKLIN COUNTY	146	\$ 19,444,400	\$ 125,838	66	\$ 483,054
HANCOCK COUNTY	365	\$ 90,726,500	\$ 375,271	62	\$ 214,757
KENNEREC COUNTY	394	\$ 73,349,500	\$ 529,003	388	\$ 4,832,520
KNOX COUNTY	344	\$ 95,318,500	\$ 397,680	54	\$ 272,152
LINCOLN COUNTY	392	\$ 102,187,700	\$ 430,499	95	\$ 606,029
OXFORD COUNTY	295	\$ 49,178,700	\$ 352,816	317	\$ 3,204,955
PENOBSCOT COUNTY	413	\$ 63,010,400	\$ 412,069	241	\$ 1,728,917
PISCATAQUIS COUNTY	63	\$ 11,921,800	\$ 105,336	88	\$ 1,877,937
SAGADAHOC COUNTY	172	\$ 43,297,400	\$ 183,324	75	\$ 753,596
SOMERSET COUNTY	199	\$ 24,014,900	\$ 162,623	107	\$ 751,198
WALDO COUNTY	147	\$ 35,588,100	\$ 191,810	61	\$ 530,215
WASHINGTON COUNTY	115	\$ 21,701,300	\$ 140,258	20	\$ 32,089
YORK COUNTY	3,587	\$ 914,561,700	\$ 3,635,300	2,116	\$ 19,119,513
State Total :	8,455	\$ 1,988,209,100	\$ 8,861,662	4,582	\$ 42,698,048

NFIP Policies

Community	Total Premium	Total Policies	Total Coverage	Total Claims Since '78	Total Paid Since '78
Camden	\$103,462	93	\$27,351,900	13	\$152,225
Owls Head	\$55,342	41	\$11,057,500	10	\$25,275
Rockland	\$27,175	19	\$5,738,000	6	\$42,221
South Thomaston	\$28,957	24	\$6,335,400	3	\$16,797
St. George	\$60,271	80	\$21,801,000	4	\$545
Vinalhaven	\$38,257	23	\$6,258,600	3	\$11,041

As of 6/5/17

Camden: Potential Cost Savings

CRS Class	Per Policy	Community-Wide
9	\$50	\$4,692
8	\$95	\$8,871
7	\$140	\$13,050
6	\$191	\$17,742
5	\$236	\$21,921
4	\$281	\$26,100
3	\$326	\$30,279
2	\$371	\$34,459
1	\$415	\$38,638

Owls Head: Potential Cost Savings

CRS Class	Per Policy	Community-Wide
9	\$59	\$2,429
8	\$111	\$4,545
7	\$162	\$6,661
6	\$222	\$9,089
5	\$273	\$11,205
4	\$325	\$13,321
3	\$377	\$15,437
2	\$428	\$17,553
1	\$480	\$19,669

Rockland: Potential Cost Savings

CRS Class	Per Policy	Community-Wide
9	\$59	\$1,129
8	\$101	\$1,921
7	\$143	\$2,713
6	\$202	\$3,843
5	\$244	\$4,635
4	\$286	\$5,427
3	\$327	\$6,219
2	\$369	\$7,011
1	\$411	\$7,803

South Thomaston: Potential Cost Savings

CRS Class	Per Policy	Community-Wide	
9	\$51	\$1,228	
8	\$99	\$2,374	
7	\$147	\$3,519	
6	\$198	\$4,747	
5	\$246	\$5,893	
4	\$293	\$7,039	
3	\$341	\$8,185	
2	\$389	\$9,331	
1	\$437	\$10,477	

St. George: Potential Cost Savings

CRS Class	Per Policy	Community-Wide				
9	\$32	\$2,593				
8	\$54	\$4,354				
7	\$76	\$6,115				
6	\$109	\$8,708				
5	\$131	\$10,469				
4	\$153	\$12,230				
3	\$175	\$13,991				
2	\$197	\$15,753				
1	\$219	\$17,514				

Vinalhaven: Potential Cost Savings

CRS Class	Per Policy	Community-Wide				
9	\$82	\$1,894				
8	\$151	\$3,473				
7	\$220	\$5,051				
6	\$302	\$6,945				
5	\$371	\$8,523				
4	\$439	\$10,102				
3	\$508	\$11,680				
2	\$576	\$13,259				
1	\$645	\$14,837				

Where to Start

- Talk with ISO/CRS Specialist
- Review the CRS Coordinator's Manual
- Visit CRSresources.org
 - Helpful resources, including sample letter of interest
- Review CRS 'Quick Check' get a sense of potential credit
- Connect with participating communities
 - Form 'Users Group'
 - Cape Cod, MA

Assistance

- CRS Specialists available to assist communities with applying and designing, implementing, and documenting creditable activities
- CRS course for local officials offered free at FEMA's Emergency Management Institute (EMI)
- Webinars offered throughout the year (CRSresources.org)

Maine Flood Resilience Checklist



A self-assessment tool for Maine's coastal communities to evaluate their vulnerability to flood hazards and increase resilience.



Community Planning			es	N	0	N/A	Comments
	Are high water mark, storm surge, and/or potential future flood elevation signs posted in your community in publicly visible areas?						
17	Does your community participate in flood hazard reduction programs (e.g., National Flood Insurance Program (NFIP), FEMA's Community Rating System, etc.) and if so, is your community in good standing with those programs?						
18	Is your community designated as StormReady by the National Weather Service?						
19	Has your community adopted the most recent Maine Uniform Building and Energy Code (MUBEC)?						
20	Does your community have a local hazard disclosure policy requiring hazard disclosure by real estate agents, private sellers, and/or by municipal officials for properties located in (a) the FEMA-designated regulatory floodplain and/or (b) other flood hazard areas (e.g., storm surge, sea level rise, etc.)?	<u>a</u>	<u>b</u>	<u>a</u>	<u>b</u>		
21	Does your community have a disaster response and recovery plan that includes short- and long-term actions and policies and identifies personnel responsible for those actions?						
22	Does your community participate in practice drills of emergency response plans?						
23	Does your community have a (a) flood warning plan and (b) system?	<u>a</u>	<u>b</u>	<u>a</u>	<u>b</u>		
24	Does your community have an emergency communication system to use prior to, during, and after a storm event or natural disaster (e.g., reverse 911 call system for landlines, IPAWS for cell phones)?						
25	Does your community have an emergency evacuation plan that identifies populations needing evacuation assistance and mechanisms for providing that assistance?						
	Does the plan account for seasonal population variability?						
26	Does your community have mutual aid agreements with neighboring communities for hazards and disaster preparation, response, and recovery?						

	ı ı					
23	Does your community have a (a) flood warning plan and (b)	<u>a</u>	<u>b</u>	<u>a</u>	<u>b</u>	
(3)	system?					
24	Does your community have an emergency communication system					
(3)	to use prior to, during, and after a storm event or natural disaster					
	(e.g., reverse 911 call system for landlines, IPAWS for cell					
	phones)?					
25	Does your community have an emergency evacuation plan that					
(3)	identifies populations needing evacuation assistance and					
	mechanisms for providing that assistance?					

Checklist Section		CRS Credit						
and Question		Activity		ty Element Description				
Community Planning	21	540	Flood Warning	610	This activity provides credit for a community that, at a minimum, has adopted a flood warning and response program that includes a flood threat recognition system; methods to warn the public of an impending flood; a plan for response operations; and coordination with critical facility operators.	395		
	24	610	and Response	612.b	Credit is provided for emergency warning alerts and messages that are disseminated to the public when a flood is imminent.	75		
	25			612.c	This element credits a flood warning and response plan that identifies specific tasks to reduce or prevent threats to health, safety, and property from flooding.	115		

Questions and Discussion

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