

Federal Emergency Management Agency
National Flood Insurance Program
Risk Rating 2.0
Countrywide, Non-Leveed, Single-Family Home

Premium Calculation Worksheet Example 1 Inputs

(1)	(2)
Variable	Value
State	SC
HUC12	030502010605
Barrier Island Indicator	No
MSA	C13
Distance to River (meters)	111.2
Elevation Relative to River (feet)	4.6
Drainage Area (km ²)	1.9
Structural Relative Elevation (feet)	0.9
Distance to Coast (meters)	231.4
Distance to Ocean (meters)	6779.8
Elevation (feet)	7
Distance to Lake (meters) (Note 1)	N/A
Elevation Relative to Lake (feet) (Note 1)	N/A
River Class	Class B
Type of Use	Single-Family Home - Frame
Single Family Home Indicator	Yes
Condo Unit Owner Indicator	No
Floors of Interest	1-2
Foundation Type	Elevated without Enclosure, Post, Pile, or Pier
First Floor Height	5.5
Foundation Design	Open, No Obstruction
Flood Vents	No
Machinery and Equipment (M&E) above First Floor	No
Prior Claims	0
Coverage A Value	\$250,000
Coverage C Value	\$100,000
Coverage A Limit	\$250,000
Coverage C Limit	\$100,000
Coverage A Deductible	\$1,250
Coverage C Deductible	\$1,250
Community Rating System (CRS) Discount Percentage	15.0%
Reserve Fund	1.15
Probation Surcharge	\$0
Primary Residence Indicator	Yes
Federal Policy Fee	\$50
Increased Cost of Compliance (ICC) Premium	\$4

Notes:

1. Distance to Lake and Elevation Relative to Lake only applies to locations within 10 miles of the Great Lakes.

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Premium Calculation Worksheet Example 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Item	Calculation	Inland Flood		Storm Surge		Tsunami		Great Lakes		Coastal Erosion		All Perils
		Building	Contents	Building	Contents	Building	Contents	Building	Contents	Building	Contents	All Coverages
Geographic Factors												
A. Base Rate (per \$1,000 of Coverage Value)	=	2.255	3.611	5.652	8.022	0.000	0.000	0.000	0.000	4.063	1.166	
B. Distance to River	=	1.068	1.068									
C. Elevation Relative to River by River Class	=	0.567	0.567									
D. Drainage Area	=	0.744	0.744									
E. Structural Relative Elevation	=	0.898	0.898									
F. Distance to Coast by Barrier Island Indicator	=			1.413	1.413	1.000	1.000			0.000	0.000	
G. Distance to Ocean by Barrier Island Indicator	=			1.000	1.000	1.000	1.000					
H. Elevation by Barrier Island Indicator	=			0.730	0.730	1.000	1.000					
I. Distance to Lake	=							0.525	0.525			
J. Elevation Relative to Lake	=							0.004	0.004			
K. Territory (HUC12 & Barrier Island Indicator)	=	0.477	0.477	1.092	1.092	0.000	0.000	0.000	0.000			
L. Geographic Rate by Peril & Coverage *	Product of A to K	0.435	0.697	6.366	9.036	0.000	0.000	0.000	0.000	0.000	0.000	
Property & Contract Factors												
M. Type of Use	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
N. Floors of Interest	=	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900			
O. Foundation Type	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
P. First Floor Height by Foundation Design & Flood Vents	=	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561			
Q. M&E above First Floor	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
R. Coverage Value Factor	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
S1. Deductible & Limit to Coverage Value Ratio *	(Note 1)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
S2. Deductible to Coverage Value Ratio *	(Note 2)	0.045	0.065	0.035	0.040	0.035	0.040	0.035	0.040	0.035	0.040	
S3. Initial Deductible & ITV	(S1 + S2)	0.955	0.935	0.965	0.960	0.965	0.960	0.965	0.960	0.965	0.960	
S4. Final Deductible & ITV	(Note 3)	0.955	0.935	0.965	0.960	0.965	0.960	0.965	0.960	0.965	0.960	
T. Concentration Risk	=	0.964	0.964	0.949	0.949							
U1. CRS Discount Percentage	=	15.0%	15.0%	15.0%	0.150	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
U2. CRS Discount Factor	(1 - U1)	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850
V. Rate by Peril & Coverage *	(Note 4)	0.172	0.270	2.502	3.533	0.000	0.000	0.000	0.000	0.000	0.000	
W. Rate (per \$1,000 of Building Value)	(Note 5)											2.674
X. Rate (per \$1,000 of Contents Value)	(Note 5)											3.803
Y. Rate Weights by Coverage	(Note 6)	6.432%	7.100%	93.568%	92.900%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	
Z. Weighted Deductible & ITV Factor (Building)	(Note 7)											0.964
AA. Weighted Deductible & ITV Factor (Contents)	(Note 8)											0.958
AB. Minimum Rate (per \$1,000 of Building Value)	=											0.000
AC. Maximum Rate (per \$1,000 of Building Value)	=											14.460
AD. Minimum Rate (per \$1,000 of Contents Value)	=											0.000
AE. Maximum Rate (per \$1,000 of Contents Value)	=											14.370
AF. Final Rate (per \$1,000 of Building Value)	MIN(MAX(W, AB), AC)											2.674
AG. Final Rate (per \$1,000 of Contents Value)	MIN(MAX(X, AD), AE)											3.803
AH. Coverage Value in Thousands (Building)	=											\$250.00
AI. Coverage Value in Thousands (Contents)	=											\$100.00
AJ. Initial Premium without Fees (Building) **	AF x AH											\$668.50
AK. Initial Premium without Fees (Contents) **	AG x AI											\$380.30
AL. Initial Premium without Fees **	AJ + AK											\$1,048.80
AM. Prior Claims Premium **	(Note 9)											\$0.00
AN. Premium excluding Fees & Expense Constant **	AL + AM											\$1,048.80
AO. Expense Constant	=											\$62.99
AP. Loss Constant	=											\$130.00
AQ. Premium without Fees	AN + AO + AP											\$1,241.79
AR. ICC Premium	=											\$4.00
AS. ICC Premium with CRS Discount **	(U2 x AR)											\$3.40
AT. Subtotal	(AQ + AS)											\$1,245.19
AU. Reserve Fund Factor	=											1.15
AV. Subtotal **	(AT x AU)											\$1,431.97
AW. Probation Surcharge	=											\$0.00
AX. HFIAA Surcharge By Primary Residence Indicator	(Note 10)											\$25.00
AY. Federal Policy Fee	=											\$50.00
AZ. Premium with Fees	(AV + AW + AX + AY)											\$1,506.97

* Rounded to the nearest thousandth
** Rounded to the nearest hundredth

Notes:

- Look up on (Deductible + Coverage Limit) / (Coverage Value), capped between 0 and 1.
- Look up on (Deductible) / (Coverage Value), capped between 0 and 1.
- IF Coverage Limit = 0 THEN 0, ELSE MAX(S3, 0.001).
- Product of L, M to R, S4, T, and U2.
- Row (W), Column (13) = [(3) + (5) + (7) + (9) + (11)] of Row V.
Row (X), Column (13) = [(4) + (6) + (8) + (10) + (12)] of Row V.
- Row (Y), Column (3) = Row (V), Column (3) / Row (W), Column (13). Columns (5), (7), (9), & (11) in Row (Y) calculated similarly.
Row (Y), Column (4) = Row (V), Column (4) / Row (X), Column (13). Columns (6), (8), (10), & (12) in Row (Y) calculated similarly.
- Row (Z) is calculated as the sum of the products of Columns (5), (11), and (3) of Rows S4 and Y.
- Row (AA) is calculated as the sum of the products of Columns (6), (12), and (4) of Rows S4 and Y.
- Row (AM), Column (13) = Prior Claims Rate (\$2) x Row (Z) x MAX(Number of Prior Claims - 1, 0).
- IF Primary Residence, THEN \$50, ELSE \$250.
- Calculated using variable inputs from Page 1.
- Premium Calculation Worksheet assumes near term expense and loss constants, a minimum rate of \$0 per \$1,000 of coverage value, and a maximum rate of \$15 per \$1,000 of coverage value.

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Premium Calculation Worksheet Example 2 Inputs

(1)	(2)
Variable	Value
State	MI
HUC12	040801020106
Barrier Island Indicator	No
MSA	H2
Distance to River (meters)	420.8
Elevation Relative to River (feet)	10.2
Drainage Area (km ²)	12.6
Structural Relative Elevation (feet)	4.2
Distance to Coast (meters) (Note 1)	N/A
Distance to Ocean (meters) (Note 1)	N/A
Elevation (feet)	585.3
Distance to Lake (meters)	48.3
Elevation Relative to Lake (feet)	6.2
River Class	Class A
Type of Use	Single-Family Home - Frame
Single Family Home Indicator	Yes
Condo Unit Owner Indicator	No
Floors of Interest	1-2
Foundation Type	Slab
First Floor Height	0.5
Foundation Design	Closed, Wall
Flood Vents	No
Machinery and Equipment (M&E) above First Floor	No
Prior Claims	0
Coverage A Value	\$250,000
Coverage C Value	\$100,000
Coverage A Limit	\$250,000
Coverage C Limit	\$100,000
Coverage A Deductible	\$1,250
Coverage C Deductible	\$1,250
Community Rating System (CRS) Discount Percentage	15.0%
Reserve Fund	1.15
Probation Surcharge	\$0
Primary Residence Indicator	Yes
Federal Policy Fee	\$50
Increased Cost of Compliance (ICC) Premium	\$4

Notes:

1. Distance to Coast only applies to locations within 50 miles of the coast.

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Premium Calculation Worksheet Example 2

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Item		Calculation	Inland Flood		Storm Surge		Tsunami		Great Lakes		Coastal Erosion		All Perils
			Building	Contents	Building	Contents	Building	Contents	Building	Contents	Building	Contents	All Coverages
Geographic Factors													
A. Base Rate (per \$1,000 of Coverage Value)	=		1.937	2.309	0.000	0.000	0.000	0.000	1.066	0.399	0.000	0.000	
B. Distance to River	=		0.922	0.922									
C. Elevation Relative to River by River Class	=		0.348	0.348									
D. Drainage Area	=		1.028	1.028									
E. Structural Relative Elevation	=		0.644	0.644									
F. Distance to Coast by Barrier Island Indicator	=				1.000	1.000	1.000	1.000			0.000	0.000	
G. Distance to Ocean by Barrier Island Indicator	=				1.000	1.000	1.000	1.000					
H. Elevation by Barrier Island Indicator	=				1.000	1.000	1.000	1.000					
I. Distance to Lake	=								1.271	1.271			
J. Elevation Relative to Lake	=								0.407	0.407			
K. Territory (HUC12 & Barrier Island Indicator)	=		1.807	1.807	0.000	0.000	0.000	0.000	0.743	0.743			
L. Geographic Rate by Peril & Coverage *		Product of A to K	0.743	0.886	0.000	0.000	0.000	0.000	0.410	0.153	0.000	0.000	
Property & Contract Factors													
M. Type of Use	=		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
N. Floors of Interest	=		0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900			
O. Foundation Type	=		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
P. First Floor Height by Foundation Design & Flood Vents	=		0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960			
Q. M&E above First Floor	=		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
R. Coverage Value Factor	=		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
S1. Deductible & Limit to Coverage Value Ratio *	(Note 1)		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
S2. Deductible to Coverage Value Ratio *	(Note 2)		0.045	0.065	0.035	0.040	0.035	0.040	0.035	0.040	0.035	0.040	
S3. Initial Deductible & ITV	(S1 - S2)		0.955	0.935	0.965	0.960	0.965	0.960	0.965	0.960	0.965	0.960	
S4. Final Deductible & ITV	(Note 3)		0.955	0.935	0.965	0.960	0.965	0.960	0.965	0.960	0.965	0.960	
T. Concentration Risk	=		0.959	0.959	1.000	1.000							
U1. CRS Discount Percentage	=		15.0%	15.0%	15.0%	0.150	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
U2. CRS Discount Factor	(1 - U1)		0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850
V. Rate by Peril & Coverage *		(Note 4)	0.500	0.583	0.000	0.000	0.000	0.000	0.291	0.108	0.000	0.000	
W. Rate (per \$1,000 of Building Value)		(Note 5)											0.791
X. Rate (per \$1,000 of Contents Value)		(Note 5)											0.691
Y. Rate Weights by Coverage		(Note 6)	63.211%	84.370%	0.000%	0.000%	0.000%	0.000%	36.789%	15.630%	0.000%	0.000%	
Z. Weighted Deductible & ITV Factor (Building)		(Note 7)											0.959
AA. Weighted Deductible & ITV Factor (Contents)		(Note 8)											0.939
AB. Minimum Rate (per \$1,000 of Building Value)	=												0.000
AC. Maximum Rate (per \$1,000 of Building Value)	=												14.385
AD. Minimum Rate (per \$1,000 of Contents Value)	=												0.000
AE. Maximum Rate (per \$1,000 of Contents Value)	=												14.085
AF. Final Rate (per \$1,000 of Building Value)		MIN(MAX(W, AB), AC)											0.791
AG. Final Rate (per \$1,000 of Contents Value)		MIN(MAX(X, AD), AE)											0.691
AH. Coverage Value in Thousands (Building)	=												\$250.00
AI. Coverage Value in Thousands (Contents)	=												\$100.00
AJ. Initial Premium without Fees (Building) **		AF x AH											\$197.75
AK. Initial Premium without Fees (Contents) **		AG x AI											\$69.10
AL. Initial Premium without Fees **		AJ + AK											\$266.85
AM. Prior Claims Premium **		(Note 9)											\$0.00
AN. Premium excluding Fees & Expense Constant **		AL + AM											\$266.85
AO. Expense Constant	=												\$62.99
AP. Loss Constant	=												\$130.00
AQ. Premium without Fees		AN + AO + AP											\$459.84
AR. ICC Premium	=												\$4.00
AS. ICC Premium with CRS Discount **		(U2 x AR)											\$3.40
AT. Subtotal		(AQ + AS)											\$463.24
AU. Reserve Fund Factor	=												1.15
AV. Subtotal **		(AT x AU)											\$532.73
AW. Probation Surcharge	=												\$0.00
AX. HFIAA Surcharge By Primary Residence Indicator		(Note 10)											\$25.00
AY. Federal Policy Fee	=												\$50.00
AZ. Premium with Fees		(AV + AW + AX + AY)											\$607.73

* Rounded to the nearest thousandth
** Rounded to the nearest hundredth

Notes:

- Look up on (Deductible + Coverage Limit) / (Coverage Value), capped between 0 and 1.
- Look up on (Deductible) / (Coverage Value), capped between 0 and 1.
- IF Coverage Limit = 0 THEN 0, ELSE MAX(S3, 0.001).
- Product of L, M to R, S4, T, and U2.
- Row (W), Column (13) = [(3) + (5) + (7) + (9) + (11)] of Row V.
Row (X), Column (13) = [(4) + (6) + (8) + (10) + (12)] of Row V.
- Row (Y), Column (3) = Row (V), Column (3) / Row (W), Column (13). Columns (5), (7), (9), & (11) in Row (Y) calculated similarly.
Row (Y), Column (4) = Row (V), Column (4) / Row (X), Column (13). Columns (6), (8), (10), & (12) in Row (Y) calculated similarly.
- Row (Z) is calculated as the sum of the products of Columns (5), (11), and (3) of Rows S4 and Y.
- Row (AA) is calculated as the sum of the products of Columns (6), (12), and (4) of Rows S4 and Y.
- Row (AM), Column (13) = Prior Claims Rate (\$2) x (AH) x Row (Z) x MAX(Number of Prior Claims - 1, 0).
- IF Primary Residence, THEN \$50, ELSE \$250.
- Calculated using variable inputs from Page 3.
- Premium Calculation Worksheet assumes near term expense and loss constants, a minimum rate of \$0 per \$1,000 of coverage value, and a maximum rate of \$15 per \$1,000 of coverage value.

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Countrywide, Leveed, Single-Family Home

Premium Calculation Worksheet Example 3 Inputs

(1)	(2)
Variable	Value
State	CA
HUC12	180703041102
Levee ID	003805010006
Barrier Island	No
MSA	H5
Distance to River (meters)	37
Elevation Relative to River (feet)	1
Drainage Area (km ²)	6.2
Structural Relative Elevation (feet)	1.8
Levee Quality (Probability of Failure as a %)	0.15%
Distance to Coast (meters)	153.5
Distance to Ocean (meters)	2415
Elevation (feet)	12.2
Distance to Lake (meters) (Note 1)	N/A
Elevation Relative to Lake (feet) (Note 1)	N/A
River Class	Class E
Type of Use	Single-Family Home - Frame
Single Family Home Indicator	Yes
Condo Unit Owner Indicator	No
Floors of Interest	1-3+
Foundation Type	Slab
First Floor Height	0.5
Foundation Design	Closed, Wall
Flood Vents	No
Machinery and Equipment (M&E) above First Floor	No
Prior Claims	0
Coverage A Value	\$250,000
Coverage C Value	\$100,000
Coverage A Limit	\$250,000
Coverage C Limit	\$100,000
Coverage A Deductible	\$1,250
Coverage C Deductible	\$1,250
Community Rating System (CRS) Discount Percentage	0.0%
Reserve Fund	1.15
Probation Surcharge	\$0
Primary Residence Indicator	Yes
Federal Policy Fee	\$50
Increased Cost of Compliance (ICC) Premium	\$5

Notes:

1. Distance to Lake and Elevation Relative to Lake only applies to locations within 10 miles of the Great Lakes.

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Premium Calculation Worksheet Example 3

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
		Inland Flood - Fluvial		Inland Flood - Pluvial		Storm Surge		Tsunami		Great Lakes		Coastal Erosion		All Perils
		Building	Contents	Building	Contents	Building	Contents	Building	Contents	Building	Contents	Building	Contents	All Coverages
		Geographic Factors												
A.	Base Rate (per \$1,000 of Coverage Value)	=	2.568	4.949	3.868	6.099	0.000	0.000	1.101	1.017	0.000	0.000	0.000	0.000
B.	Distance to River	=	1.062	1.062	1.072	1.072								
C.	Elevation Relative to River by River Class	=	0.732	0.732	1.137	1.137								
D.	Drainage Area	=	1.000	1.000	1.000	1.000								
E.	Leveed Structural Relative Elevation	=	0.848	0.848	0.674	0.674								
F.	Distance to Coast by Barrier Island Indicator	=					3.049	3.049	1.000	1.000			0.000	0.000
G.	Distance to Ocean by Barrier Island Indicator	=							0.311	0.311				
H.	Elevation by Barrier Island Indicator	=	1.000	1.000	1.000	1.000	0.814	0.814	2.354	2.354				
I.	Distance to Lake	=									0.525	0.525		
J.	Elevation Relative to Lake	=	0.292	0.292							0.004	0.004		
K.	Levee Quality	=												
L.	Territory (HUC12 & Levee ID / Barrier Island Indicator)	=	1.834	1.834	1.834	1.834	0.000	0.000	0.461	0.461	0.000	0.000		
M. Geographic Rate by Peril & Coverage *		Product of A to L	0.907	1.747	5.828	9.189	0.000	0.000	0.372	0.343	0.000	0.000	0.000	0.000
		Property & Contract Factors												
N.	Type of Use	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
O.	Floors of Interest	=	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700			
P.	Foundation Type	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
Q.	First Floor Height by Foundation Design & Flood Vents	=	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960			
R.	M&E above First Floor	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
S.	Coverage Value Factor	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
T1.	Deductible & Limit to Coverage Value Ratio *	(Note 1)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
T2.	Deductible to Coverage Value Ratio *	(Note 2)	0.045	0.065	0.045	0.065	0.035	0.040	0.035	0.040	0.035	0.040	0.035	0.040
T3.	Initial Deductible & ITV	(T1 - T2)	0.955	0.935	0.955	0.935	0.965	0.960	0.965	0.960	0.965	0.960	0.965	0.960
T4.	Final Deductible & ITV	(Note 3)	0.955	0.935	0.955	0.935	0.965	0.960	0.965	0.960	0.965	0.960	0.965	0.960
U.	Concentration Risk	=	0.968	0.968	0.968	0.968	1.000	1.000						
V1.	CRS Discount Percentage	=	0.0%	0.0%	0.0%	0.0%	0.0%	0.000	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
V2.	CRS Discount Factor	(1 - V1)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
W. Rate by Peril & Coverage *		(Note 4)	0.563	1.063	3.620	5.589	0.000	0.000	0.241	0.221	0.000	0.000	0.000	0.000
X.	Rate (per \$1,000 of Building Value)	(Note 5)												4.424
Y.	Rate (per \$1,000 of Contents Value)	(Note 5)												6.873
Z.	Rate Weights by Coverage	(Note 6)	12.7%	15.5%	81.8%	81.3%	0.0%	0.0%	5.4%	3.2%	0.0%	0.0%	0.0%	
AA.	Weighted Deductible & ITV Factor (Building)	(Note 7)												0.956
AB.	Weighted Deductible & ITV Factor (Contents)	(Note 8)												0.936
AC.	Minimum Rate (per \$1,000 of Building Value)	=												0.000
AD.	Maximum Rate (per \$1,000 of Building Value)	=												14.340
AE.	Minimum Rate (per \$1,000 of Contents Value)	=												0.000
AF.	Maximum Rate (per \$1,000 of Contents Value)	=												14.040
AG.	Minimum Rate by Peril & Coverage (per \$1,000 of Coverage Value) *	=												
AH.	Maximum Rate by Peril & Coverage (per \$1,000 of Coverage Value) *	=												
AI.	Final Rate (per \$1,000 of Building Value)	MIN(MAX(X, AC), AD)												4.424
AJ.	Final Rate (per \$1,000 of Contents Value)	MIN(MAX(Y, AE), AF)												6.873
AK.	Coverage Value in Thousands (Building)	=												\$250.00
AL.	Coverage Value in Thousands (Contents)	=												\$100.00
AM.	Initial Premium without Fees (Building) **	AI x AK												\$1,106.00
AN.	Initial Premium without Fees (Contents) **	AJ x AL												\$687.30
AO.	Initial Premium without Fees **	AM + AN												\$1,793.30
AP.	Prior Claims Premium **	(Note 9)												\$0.00
AQ.	Premium excluding Fees & Expense Constant **	AO + AP												\$1,793.30
AR.	Expense Constant	=												\$62.99
AS.	Loss Constant	=												\$130.00
AT. Premium without Fees		AQ + AR + AS												\$1,986.29
AU.	ICC Premium	=												\$5.00
AV.	ICC Premium with CRS Discount **	(V2 x AU)												\$5.00
AW.	Subtotal	(AT + AV)												\$1,991.29
AX.	Reserve Fund Factor	=												1.150
AY.	Subtotal **	(AW x AX)												\$2,289.98
AZ.	Probation Surcharge	=												\$0.00
BA.	HFIAA Surcharge By Primary Residence Indicator	(Note 10)												\$25.00
BB.	Federal Policy Fee	=												\$50.00
BC. Premium with Fees		(AY + AZ + BA + BB)												\$2,364.98

* Rounded to the nearest thousandth

** Rounded to the nearest hundredth

Notes:

- Look up on (Deductible + Coverage Limit) / (Coverage Value), capped between 0 and 1.
- Look up on (Deductible) / (Coverage Value), capped between 0 and 1.
- IF Coverage Limit = 0 THEN 0, ELSE MAX(T3, 0.001).
- Product of M, N to S, T4, U, and V2.
- Row (X), Column (13) = [(3) + (5) + (7) + (9) + (11)] of Row W.
Row (Y), Column (13) = [(4) + (6) + (8) + (10) + (12)] of Row W.
- Row (Z), Column (3) = Row (W), Column (3) / Row (X), Column (13). Columns (5), (7), (9), & (11) in Row (Z) calculated similarly.
Row (Z), Column (4) = Row (W), Column (4) / Row (Y), Column (13). Columns (6), (8), (10), & (12) in Row (Z) calculated similarly.
- Row (A) is calculated as the sum of the products of Columns (5), (11), and (3) of Rows T4 and Z.
- Row (AB) is calculated as the sum of the products of Columns (6), (12), and (4) of Rows T4 and Z.
- Row (AP), Column (13) = Prior Claims Rate (\$2) x (AK) x Row (A) x MAX(Number of Prior Claims - 1, 0).
- IF Primary Residence, THEN \$50, ELSE \$250.
- Calculated using variable inputs from Page 5.
- Premium Calculation Worksheet assumes near term expense and loss constants, a minimum rate of \$0 per \$1,000 of coverage value, and a maximum rate of \$15 per \$1,000 of coverage value.

Federal Emergency Management Agency
National Flood Insurance Program
Risk Rating 2.0
Countrywide, Non-Leveed, Non-Single-Family Home

Premium Calculation Worksheet Example 4 Inputs

(1)

Variable	Value
State	SC
HUC12	030502010605
Barrier Island Indicator	No
MSA	C13
Distance to River (meters)	111.2
Elevation Relative to River (feet)	4.6
Drainage Area (km ²)	1.9
Structural Relative Elevation (feet)	0.9
Distance to Coast (meters)	231.4
Distance to Ocean (meters)	6779.8
Elevation (feet)	7
Distance to Lake (meters) (Note 1)	N/A
Elevation Relative to Lake (feet) (Note 1)	N/A
River Class	Class B
Type of Use	Condominium - Unit Owner
Single Family Home Indicator	No
Condo Unit Owner Indicator	Yes
Floors of Interest	2
Foundation Type	Elevated without Enclosure, Post, Pile, or Pier
First Floor Height	5.5
Foundation Design	Open, No Obstruction
Flood Vents	No
Machinery and Equipment (M&E) above First Floor	No
Prior Claims	0
Coverage A Value	\$250,000
Coverage C Value	\$100,000
Coverage A Limit	\$250,000
Coverage C Limit	\$100,000
Coverage A Deductible	\$1,250
Coverage C Deductible	\$1,250
Community Rating System (CRS) Discount Percentage	15.0%
Reserve Fund	1.15
Probation Surcharge	\$0
Primary Residence Indicator	Yes
Federal Policy Fee	\$50
Increased Cost of Compliance (ICC) Premium	\$4

Notes:

1. Distance to Lake and Elevation Relative to Lake only applies to locations within 10 miles of the Great Lakes.

Federal Emergency Management Agency
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Premium Calculation Worksheet Example 4

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Item	Calculation	Inland Flood		Storm Surge		Tsunami		Great Lakes		Coastal Erosion		All Perils	
		Building	Contents	Building	Contents	Building	Contents	Building	Contents	Building	Contents	All Coverages	
Geographic Factors													
A. Base Rate (per \$1,000 of Coverage Value)	=	5.040	3.948	14.365	16.405	0.000	0.000	0.000	0.000	1.072	2.646		
B. Distance to River	=	1.068	1.068										
C. Elevation Relative to River by River Class	=	0.567	0.567										
D. Drainage Area	=	0.744	0.744										
E. Structural Relative Elevation	=	0.898	0.898										
F. Distance to Coast by Barrier Island Indicator	=			1.413	1.413	1.000	1.000			0.000	0.000		
G. Distance to Ocean by Barrier Island Indicator	=			1.000	1.000	1.000	1.000						
H. Elevation by Barrier Island Indicator	=			0.730	0.730	1.000	1.000						
I. Distance to Lake	=							0.525	0.525				
J. Elevation Relative to Lake	=							0.004	0.004				
K. Territory (HUC12 & Barrier Island Indicator)	=	0.477	0.477	1.092	1.092	0.000	0.000	0.000	0.000				
L. Geographic Rate by Peril & Coverage *	Product of A to K	0.973	0.762	16.181	18.478	0.000	0.000	0.000	0.000	0.000	0.000		
Property & Contract Factors													
M. Type of Use	=	0.313	0.313	0.246	0.246	0.246	0.246	0.246	0.246				
N. Floors of Interest	=	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282				
O. Foundation Type	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
P. First Floor Height by Foundation Design & Flood Vents	=	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561				
Q. M&E above First Floor	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
R. Coverage Value Factor	=	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
S1. Deductible & Limit to Coverage Value Ratio *	(Note 1)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
S2. Deductible to Coverage Value Ratio *	(Note 2)	0.045	0.065	0.035	0.040	0.035	0.040	0.035	0.040	0.035	0.040		
S3. Initial Deductible & ITV	(S1 - S2)	0.955	0.935	0.965	0.960	0.965	0.960	0.965	0.960	0.965	0.960		
S4. Final Deductible & ITV	(Note 3)	0.955	0.935	0.965	0.960	0.965	0.960	0.965	0.960	0.965	0.960		
T. Concentration Risk	=	0.964	0.964	0.949	0.949								
U1. CRS Discount Percentage	=	15.0%	15.0%	15.0%	0.150	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	
U2. CRS Discount Factor	(1 - U1)	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	
V. Rate by Peril & Coverage *	(Note 4)	0.038	0.029	0.490	0.557	0.000	0.000	0.000	0.000	0.000	0.000		
W. Rate (per \$1,000 of Building Value)	(Note 5)											0.528	
X. Rate (per \$1,000 of Contents Value)	(Note 5)											0.586	
Y. Rate Weights by Coverage	(Note 6)	7.197%	4.949%	92.803%	95.051%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%		
Z. Weighted Deductible & ITV Factor (Building)	(Note 7)											0.964	
AA. Weighted Deductible & ITV Factor (Contents)	(Note 6)											0.959	
AB. Minimum Rate (per \$1,000 of Building Value)	=											0.000	
AC. Maximum Rate (per \$1,000 of Building Value)	=											14.460	
AD. Minimum Rate (per \$1,000 of Contents Value)	=											0.000	
AE. Maximum Rate (per \$1,000 of Contents Value)	=											14.365	
AF. Final Rate (per \$1,000 of Building Value)	MIN(MAX(W, AB), AC)											0.528	
AG. Final Rate (per \$1,000 of Contents Value)	MIN(MAX(X, AD), AE)											0.586	
AH. Coverage Value in Thousands (Building)	=											\$250.00	
AI. Coverage Value in Thousands (Contents)	=											\$100.00	
AJ. Initial Premium without Fees (Building) **	AF x AH											\$132.00	
AK. Initial Premium without Fees (Contents) **	AG x AI											\$58.60	
AL. Initial Premium without Fees **	AJ + AK											\$190.60	
AM. Prior Claims Premium **	(Note 9)											\$0.00	
AN. Premium excluding Fees & Expense Constant **	AL + AM											\$190.60	
AO. Expense Constant	=											\$62.99	
AP. Loss Constant	=											\$130.00	
AQ. Premium without Fees	AN + AO + AP											\$383.59	
AR. ICC Premium	=											\$4.00	
AS. ICC Premium with CRS Discount **	(U2 x AR)											\$3.40	
AT. Subtotal	(AQ + AS)											\$386.99	
AU. Reserve Fund Factor	=											1.15	
AV. Subtotal **	(AT x AU)											\$445.04	
AW. Probation Surcharge	=											\$0.00	
AX. HFIAA Surcharge By Primary Residence Indicator	(Note 10)											\$25.00	
AY. Federal Policy Fee	=											\$50.00	
AZ. Premium with Fees	(AV + AW + AX + AY)											\$520.00	

* Rounded to the nearest thousandth
** Rounded to the nearest hundredth

Notes:

- Look up on (Deductible + Coverage Limit) / (Coverage Value), capped between 0 and 1.
- Look up on (Deductible) / (Coverage Value), capped between 0 and 1.
- IF Coverage Limit = 0 THEN 0, ELSE MAX(S3, 0.001).
- Product of L, M to R, S4, T, and U2.
- Row (W), Column (13) = [(3) + (5) + (7) + (9) + (11)] of Row V.
Row (X), Column (13) = [(4) + (6) + (8) + (10) + (12)] of Row V.
- Row (Y), Column (3) = Row (V), Column (3) / Row (W), Column (13). Columns (5), (7), (9), & (11) in Row (Y) calculated similarly.
Row (Y), Column (4) = Row (V), Column (4) / Row (X), Column (13). Columns (6), (8), (10), & (12) in Row (Y) calculated similarly.
- Row (Z) is calculated as the sum of the products of Columns (5), (11), and (3) of Rows S4 and Y.
- Row (AA) is calculated as the sum of the products of Columns (6), (12), and (4) of Rows S4 and Y.
- Row (AM), Column (13) = Prior Claims Rate (\$2) x Row (Z) x MAX(Number of Prior Claims - 1, 0).
- IF Primary Residence, THEN \$50, ELSE \$250.
- Calculated using variable inputs from Page 7.
- Premium Calculation Worksheet assumes near term expense and loss constants, a minimum rate of \$0 per \$1,000 of coverage value, and a maximum rate of \$15 per \$1,000 of coverage value.