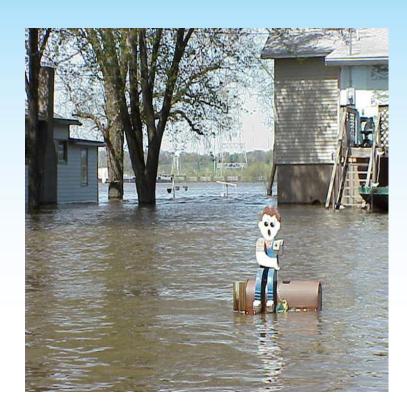
Postdiluvian Requirements

Yup...How's That For a Fancy Word!







Understanding Substantial Damage

"The 50% Rule":

If damages from ANY source (flood, fire, tornado, alien attack, zombies, etc..) exceed 50%.

The structure must be brought into compliance with floodplain regulations (elevated or floodproofed).



Substantial Damage

The formula

Cost of damage > 50% Market value of the building

$$\frac{$75,000 \text{ damage}}{$140,000 \text{ house}} = 54\%$$



Substantial Damage

Cumulative Substantial damage tracking (example)

```
2008 - $20,000 damage / $100,000 = 20\% damage
```

2011 - \$10,000 damage / \$120,000 = 8% damage

2015 - \$28,600 damage / \$130,000 = 22% damage

50% cumulative damage

Building must be brought up to flood code!

The Illinois state model ordinance tracks CUMULATIVE substantial damage



Substantial Damage

Determining Building Value

Building value is the market value of the building

prior to the damage

Tax assessor records

Professional appraisal

Apply consistent methodology





Post Flood Responsibilities

- MOVE FAST! Don't wait for FEMA!
- > Identify, tag, photograph, and document flooded structures
- Post information for the public on permit requirements. Use media sources.
- Provide technical information
- Contact State or FEMA for assistance and guidance if needed.

State of Illinois Flood Damage Assessment Packet

A cooperative effort by:

Illinois Department of Natural Resources Office of Water Resources

Illinois Emergency Management Agency

Federal Emergency Management Agency







2008 update

Includes Information On:

Steps to take following a flood
Substantial demage determinations
Blank demage assessment worksheets
FEMA Residential Substantial Demage Estimator (RSDE)
RSDE Field Worksheet
Information on state floodway pegmit requirements
Sample letter
Sample Notice
Information on mitigation programs



Field Inspections During FloodCrest



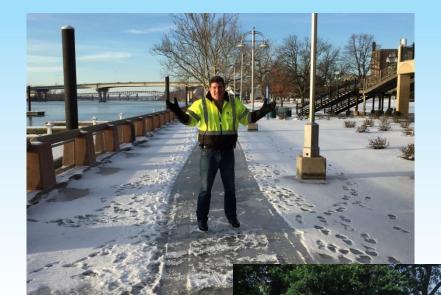




Post Flood – Survey

- > Document high water marks
- > Digital photos
- Mark locations on map
- > Post notices on properties

> Follow up letters



By Ice Skate or by boat!



Think about where you place your notices



Cull the Herd 100% damaged





Focus on the Tough Ones 40% – 60% Damaged



Some are REALLY tough!



Ottawa Central School
One inch of flooding.

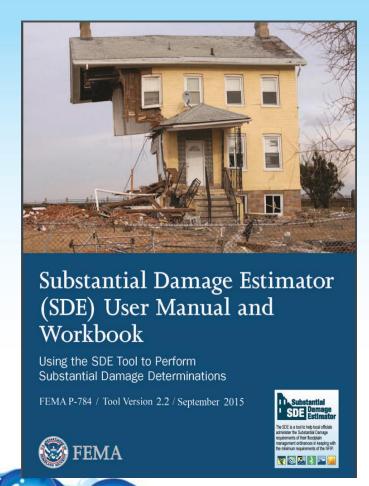


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Learn to use the Substantial Damage Estimator (SDE)

- Download the SDE
- •Obtain the base cost #s from Marshall Swift or Mean (I can't say that).
- Work with the Tax Assessor.
- Use the "cheat sheet" to enter the percent damage for each component.
- •Be fast, uniform, & equitable.
- •Get the letters out ASAP.
- Can address challenged estimates later.



Learn to use the SDE (cont.)

- On site inspection done for each flooded structure.
- Information recorded on damage inspection worksheets (field sheets).
- Entered into SDE back at the office

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Appendix C: Community Tool Kit RSDE DAMAGE INSPECTION WORKSHEET Single/Multi-Family Site Built Residences 2. Elevation of Lowest Floor: NFIP Community Name: 5. Owner's First Name: 6. Building Address: City: State: Zip: Phone # 9. Date of Construction: _____ Date Damage Occurred: ____ 10. Cause of Damage: (A) Fire (B) Flood (C) Fire & Wind (D) Seismic (E) Wind 12. Description of Residential Site-Built Modular Structure: (A) Quality of Construction: (1) Low ____ (2) Fair ____ (3) Average ____ (4) Good ____ (5) Very Good ____ (6) Excellent ___ (B) 1-story ___ 11/2 - story ___ 2-story ___ More Than 2 Stories ___ 2-Story Bi-level ___ Split-level ___ age—Guidance for State and Local Officials

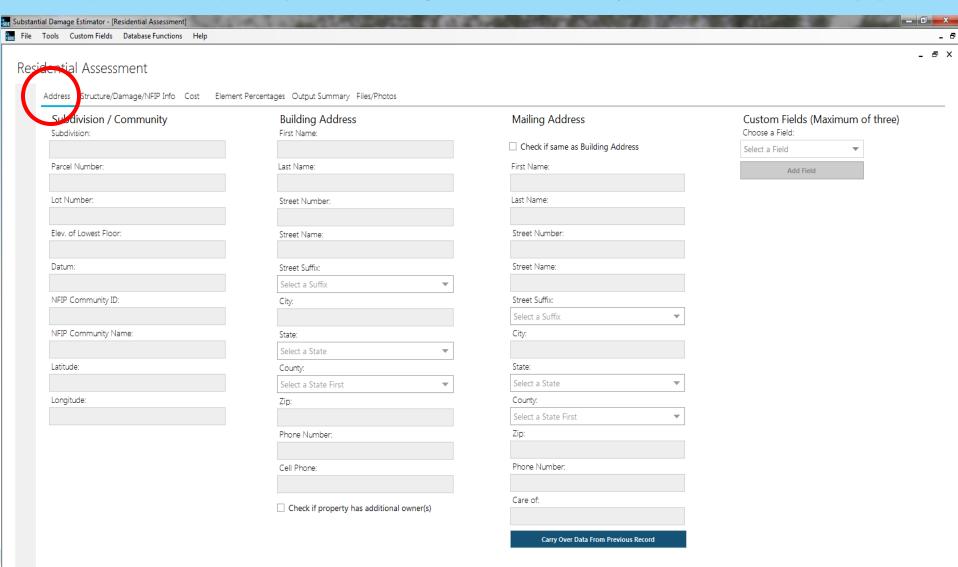
Learn to use the SDE Main Menu



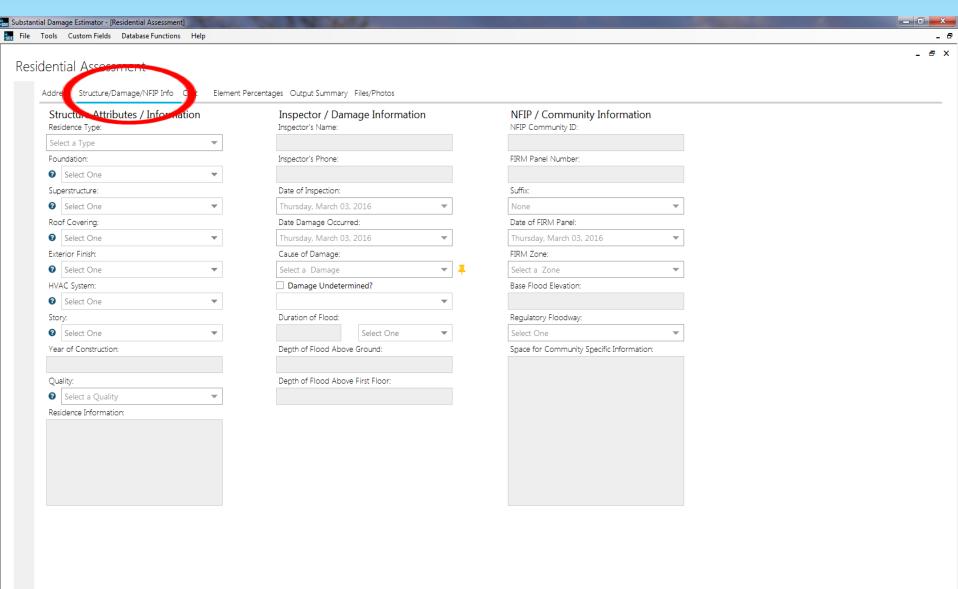
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- Main toolbar
- 2. View search
- 3. Bulk Editor
- 4. Enter default data
- 5. Add property
- 6. Add Residential property
- Add nonresidential assessment
- 8. Save mapping
- 9. Import/Export
- 10. View reports
- 11. Generate Geo file
- 12. User manual

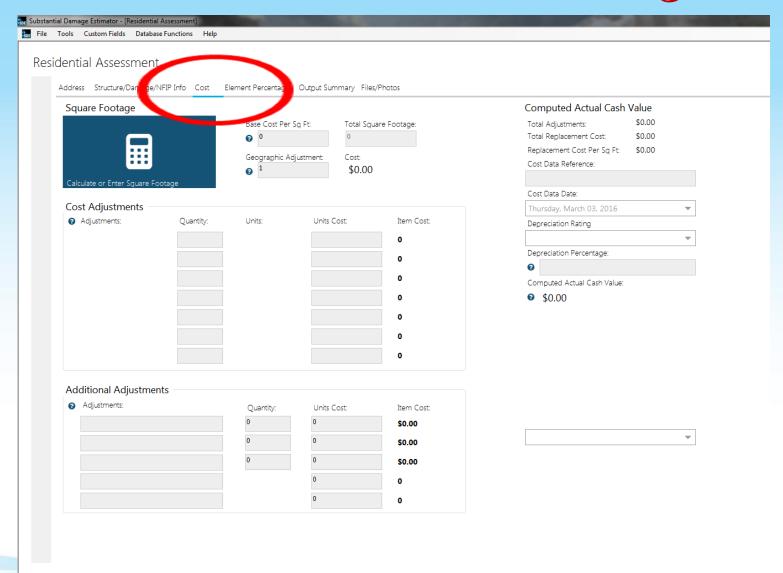
Learn to use the SDE - Tab 1 - Address



Learn to use the SDE – Tab 2 – Structure information



Learn to use the SDE – Tab 3 - Cost

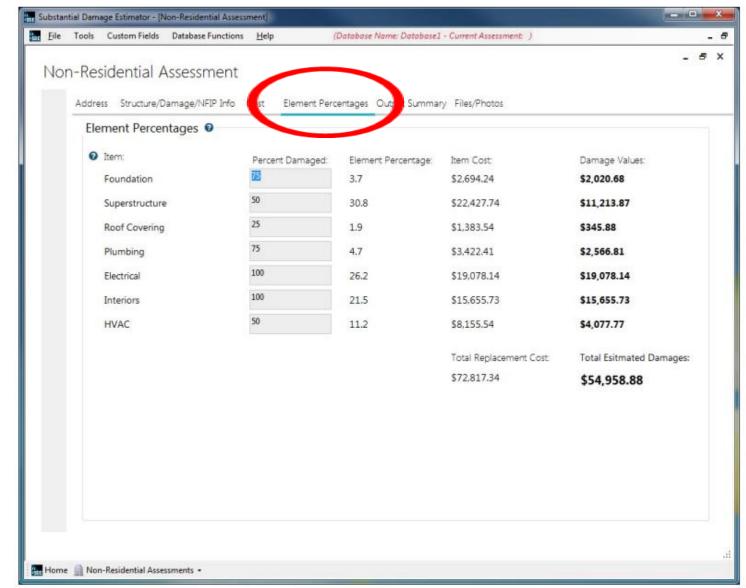




🔐 Home 🔒 Residential Assessments 🕶



Learn to use the SDE – Tab 4 – Element Percent



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SDE Inspection Elements

- Foundation
- Superstructure (Framing and Masonry)
- Roof
- Insulation and weather stripping
- Exterior Finish
- Interior Finish (Drywall)
- Doors-Windows-Shutters

- Hardware
- Cabinets-Countertops
- Floor Covering
- Plumbing
- Electrical
- Built-in Appliances
- Heating-Cooling (HVAC)
- Painting







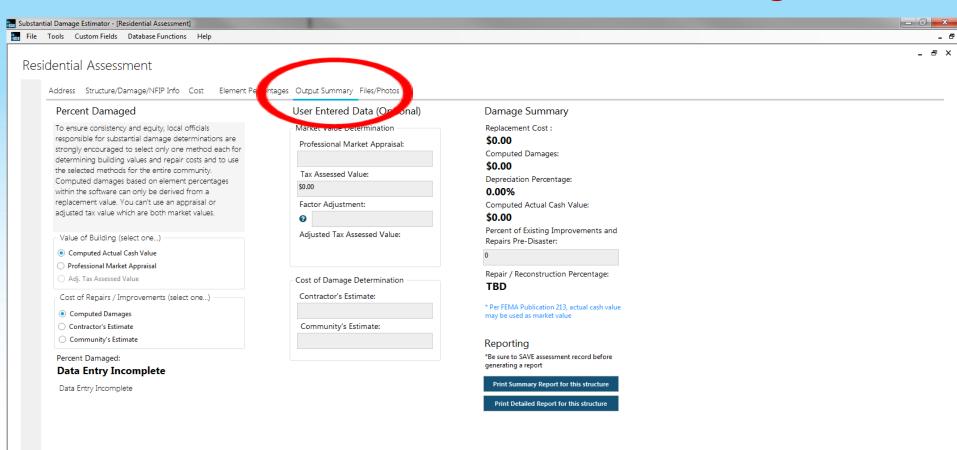








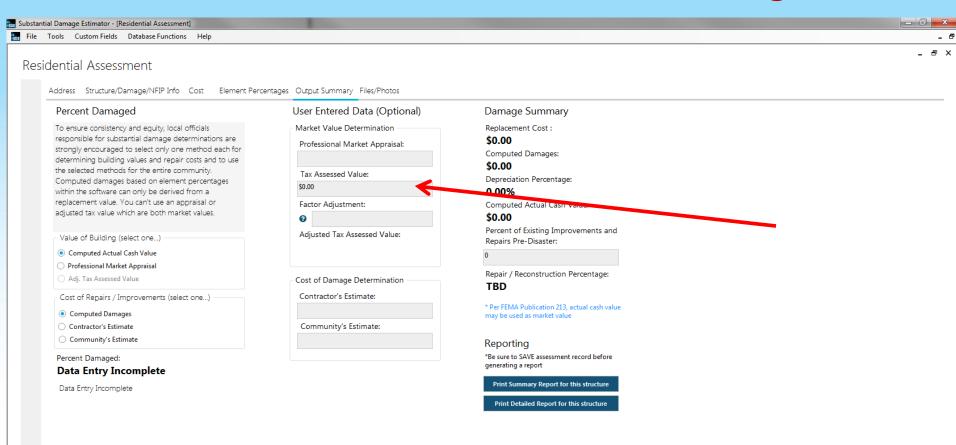
Learn to use the SDE – tab 5







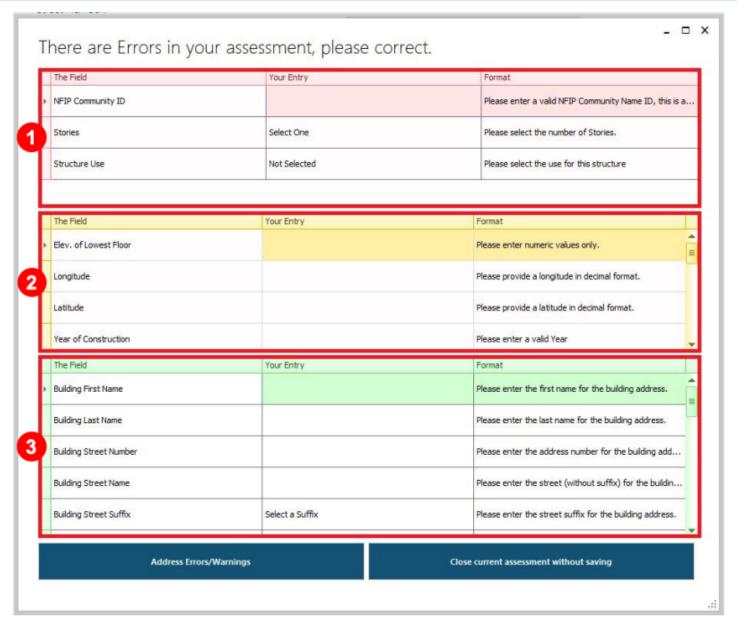
Learn to use the SDE - tab 5







Learn to use the SDE – Error Window







See who can get Increase Cost of Compliance (ICC)??

- · Part of the standard Flood Insurance Policy.
- Not a grant.
- Up to \$30,000 to assist with code compliance:
 - Floodproof
 - Relocate
 - Elevate
 - Demolish

Shutting the Window of Opportunity

1 month Intent letters sent to community Pre – application deadline 2 months Pre apps received and reviewed 1 month Full app request to community 1 month 1 month Full apps ray 2 months k and send to FFMA nths FE review and approve months Grant agreement months 1 or 2 m Ap Remew of appraisals Local title sear 1 month 1 month Demolition 3 to 8 months Close out year or more add another year Mitigation Plan

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ICC opens the Window of Opportunity



How to Qualify for ICC??

Three conditions must be met for an ICC claim to be paid:

- ➤ Building must be covered by a Standard Flood Insurance Policy.
- > Structure must be substantially damaged or cumulatively substantially damaged by a flood.
- ➤ The building has a history of NFIP claim payments that satisfy the definition of "target group repetitive loss structure".



How to File a Claim

- Copy of the substantial damage determination from the community (not the insurance claim).
- Bids from licensed contractors to elevate to FPE.
- Copy of the ordinance section requiring cumulative substantial damage.
- Contact the insurance company or agent who wrote the flood policy to file an ICC claim.
- Insurer assigns a claims representative who will process the ICC claim.

Damage Assessment Letter

SAMPLE DAMAGE DETERMINATION LETTER

06/12/2000

John & Jane Q. Public
1238. Rhopted-Br-The-River Rd.
MAYOUTHINGTON TO CALLES TO THE AGGINESS TETETERICAL ADDRESS.

Community Number: 170XXX Parcel Zone Information: Zone A

Fair Market Value: \$31,226 (based on 3.1 x assessed value)

Flood Damage:

 June 2008
 \$18,864

 Total damages
 \$18,864

 Percent Damaged:
 60.4%

Ordinance Requirement: Mitigation (elevation, removal)

The determination is that this structure is declared **Substantially Damaged** and must be brought into compliance with the ____(insert community name)_____ Floodplain Ordinance prior to repair and reoccupation. For this structure to be in compliance with the ordinance, the structure must be elevated, moved outside the floodplain or demolished.

you have any additional questions, you, may feel free to give me a call at xxx-xxxx.

Sincerely,

Your Name and title



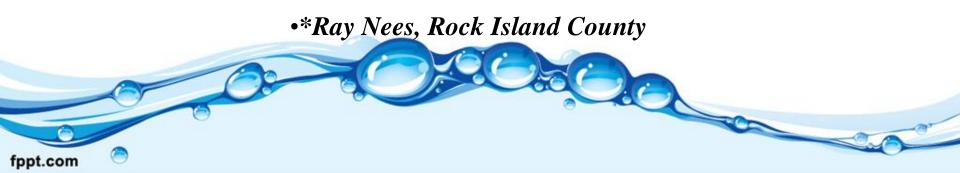
What if....

The adjusters say:

- I don't' think there is that much damage
- When you deduct the cost of elevation, it is back under 50%
- You don't have the authority to require this structure to be elevated.
- The replacement cost of this house is MUCH higher

•What they REALLY meant to say is:

•I have never taken the time to read the NFIP Manual, the ICC Guidebook, or your local ordinance so I don't have the foggiest idea that you, the local official, has TOTAL authority determining substantial damage and I apologize for my ignorance and I hope you will not embarrass me in front of my other insurance adjuster pals. *



When ICC is Approved

- ➤ NFIP will release ½ of the estimated amount to begin construction.
- ➤ NFIP will release the other ½ when an elevation certificate and local building permit showing compliance is provided.











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New Request From Adjusters:

- Elevation cert prior to the date of loss
- > Flood zone
- Dollar figure of loss related to flood

Cost to rebuild (without elevation)



Home Moving and Elevation Contractors

- 1 Peters House & Building Movers R.R. #1 Box 114 Farmer City, IL 61842 (309) 928-2532
- 2. MCE Home Movers 1637 East 800 North Rd. Loda, IL 60948 mcemoving@yahoo.com 217-379-2955 – office 217-519-0244 – cell
- 3. Lyle Hyatt and Company House Movers 612 Green Street Sandwich, IL 815-786-6591
- 4. Balagna House Moving, Inc. 21529 E. Illinois Highway 116 Farmington, IL 61531 (309) 245-4486
- 5. Greene County Steel Eldred, IL 62027 (618) 576-9730
- 6. Louvier's Construction Inc. 1038 Urna Drive St. Louis, MO 63301 (636) 250-3189 *elevation only
- 7. Expert House Movers 7144 Pershing Avenue St. Louis, MO 63130 (314) 727-2722 Or (800) 305-8939
- 8. Goodwin House Moving 2964 Coppock Road Washington, IA 52353 (319) 653-5644

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This list includes contractors who have done ICC elevation projects in the past. It is not a complete list and does not imply an endorsement by the State of Illinois. Consult your phonebook for local contractors.

More tips:

- •Get the Quick Claims data.
 Call people with policies who
 you suspect to have been sub
 dam. (most agents don't inform
 their clients)
- Develop a list of Elevation Contractors (ones who have done prior ICC projects) and provide the list to residents.
- •Quick response. Call ASAP to get a bid and schedule a contractor.
- •Not all policies are NFIP.
 Forced placed may not have ICC provision (or a reduced coverage limit). Example: \$57,419 coverage \$50,200 claim = \$7,219 left to elevate.

ICC Before and After







Post-Flood Requirements

State and FEMA Assistance –

Substantial
Damage
Workshops and
training on the
SDE



Let's Go To Grafton and Red Tag!!! ©

Our target house





The "Rulo House"





Mississippi River carp in my living room...again!

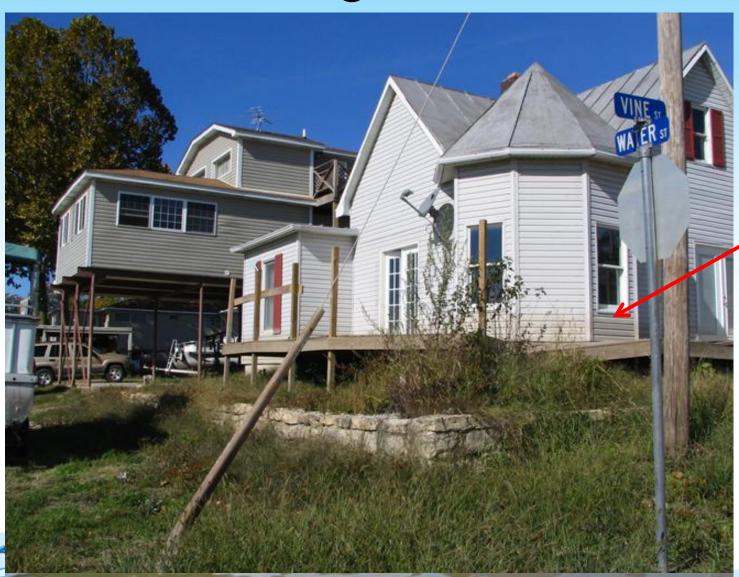




2008 = 39% damaged 2011 flood damage = ???

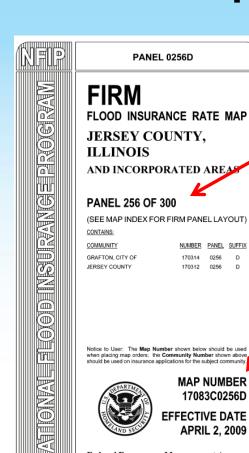


Note the high water line...



Let's call it three feet

FIRM information



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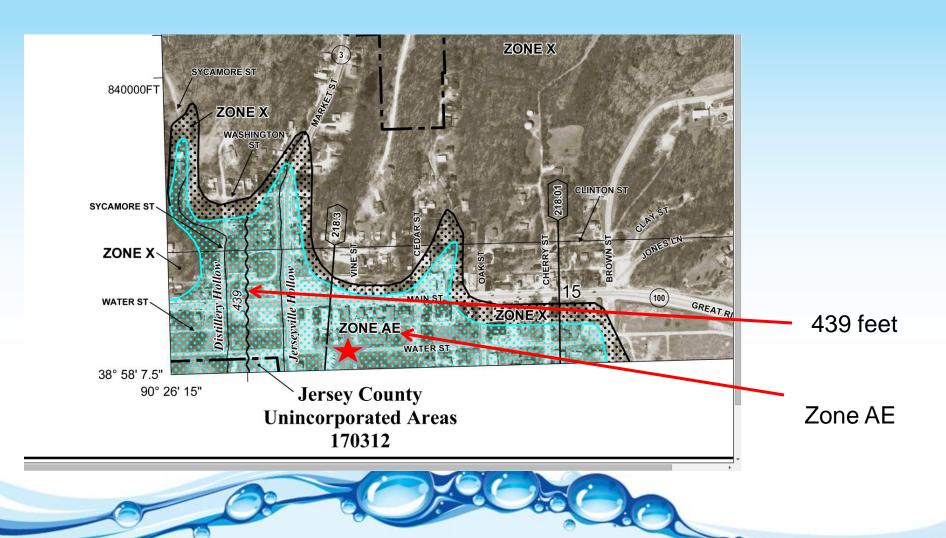
Federal Emergency Management Agency

Panel number

Community Number and suffix

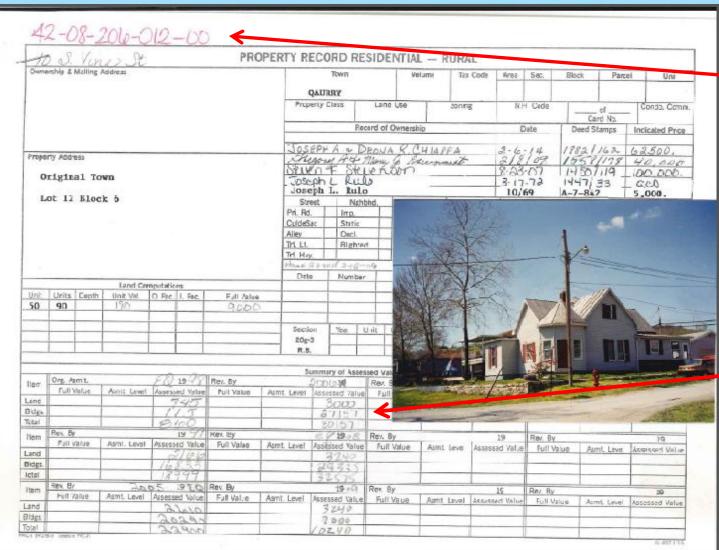
Effective Date

FIRM Zone and BFE



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Use the Assessor's Card



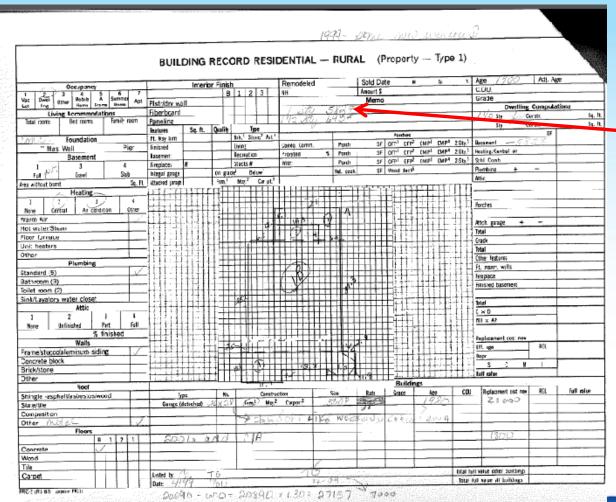
Parcel Number 42-08-206-012-00

Tax assessment \$27,157





Tax Assessors Sq. Footage



582 first floor 111 second floor 693 - Total

Basement

Built in 1900

Building Cost Values

ONE AND ONE HALF STORY RESIDENCE

2100

2200

2300

2400

2600

2800

60.68

60.26

59.86

59.11

58.43

57.80

		· s	TUD FRAM	MED			
Total Area	Plywood or Hardboard	Metal or Vinyl Siding	Stucco	Wood Siding	Wood	Synth. Plaster	
900	\$69.79	\$69.89	970.03	\$70.43	Shingles \$71.21	(EIFS) \$72.96	
1000	68.65	68.75	69.75	69.26	70.01	71.70	
1100	67.63	67.73	68.69	68.23	68.94	70.58	
1200	66.72	66.81	67.74	67.29	67.99	69.57	
1300	65.89	65.98	66.88	66.44	67.12	68.65	
1400	65.13	65.21	66.09	65.67	66.32	67.81	
1500	64.43	64.51	65.36	64.95	65.59	67.04	
1600	63.78	63.86	64.69	64.29	64.91	66.33	
1700	63.18	63.26	64.07	63.68	64.28	65.67	
1800	62.62	62.69	63.48	63.10	63.69	65.05	
1900	62.09	62.16	62.94	62.56	63.14	64.47	
2000	61.59	61.66	62.42	62.06	62.62	63.93	

61.13

60.70

60.29

59.53

58.83

62.13

61.67

60.81

60.03

59,32

63.41

62.92

62.46

62.02

61.21

60.46

61.94

61.48

61.04

60.63

59.86

59.15

58.50

61,19

60.75

60.33

59.92

59.18

58.49

57.86

	STUD F	RAMED		MAS	ONRY	
Total	Rustic	Masonry	Concrete	Stucco	Common	Poured Concrete
Агеа	Log	Veneer	Block	on Block	Brick	(SIP Forming)
900	\$75.59	\$74.91	\$73.07	\$74.74	\$82.80	\$83.16
1000	74.15	73.56	71.78	73.38	81.17	81,39
1100	72.87	72.37	70.63	72.16	79.71	79.83
1200	71.72	71.29	69.59	71.07	78.41	78.42
1300	70.68	70.32	68.66	70.08	77.23	77.16
1400	69.73	69.43	67.80	69.17	76.15	76.00
1500	68.86	68.61	67.01	68.34	75.16	74.94
1600	68.05	67.85	66.28	67.57	74,25	73.96
1700	67.30	67.15	65.60	66.86	73.40	73.05
1800	66.60	66.49	64.97	66.19	72.61	72.21
1900	65.95	65.87	64.38	65.57	71.87	71.42
2000	65.33	65.29	63.82	64.98	71.17	70.67
2100	64.75	64.75	63.30	64.42	70.52	69.97
2200	64.20	64.23	62.80	63.90	69.90	69.31
2300	63.69	63.74	62.33	63.40	69.31	68.69
2400	63.19	63.28	61.88	62.93	68.76	68.10
2600	62.27	62.41	61.05	62.06	67.72	67.00
2800	61.44	61.62	60.28	61.26	66.78	65.99
3000	60.67	60.90	59.58	60.52	65.91	65.07

COLLABE EGGT AD HISTMENTS

SCOARE FOOT ADJUST MENTS								
ROOFING:			ENERGY ADJ: Mod. Climate	(base)				
Composition shingle or			Mild climate	\$1.20				
Built-up, small rock		(base)	Extreme climate +	1.80				
Clay tile	+	\$5.60	Superinsulated +	3.74				
Concrete tile	+	3.76		(base)				
Metal, preformed	+	.98	Mild climate	\$2.34				
Wood shake	+	1.86	Extreme climate +	4.29				
Wood shingle	+	1.62	Hillside, moderate slope . +	1.93				
Composition roll	_	77	Hilleide steen slope +	6 22				

Add for SEISMIC ZONES (Z)/HURRICANE (Wind) ADJ.: See Intro-9; maps, D-12. Frame (Z2) +\$1.82, (Z3-4/wind) +\$2.82 Masonry (Z2)+\$1.66, (Z3-4/wind)+\$2.38

See Pages Fair-19 — Fair-22 for other Sq. Ft. Adjustments, Basements, Porches, Garages, etc.

©2014 CoreLogic®, Inc. and it licensors, all rights reserved. 6/2014 Any reprinting, distribution, creation of derivative works, and/or public displays is strictly prohibited DBGB. Fair-16. The data included on this page becomes obsolete after under delivery schooled for Dec. 7015 Fair quality home One and one half story 900 sq. ft.

Cost = \$69.89 per sq.ft.



Local Multiplier

والمستعدد المستعدد ا	LOC	AL MI	ILTIPLIERS		
			EIII EIERG		
	Frame	Masonry		Frame	Masonry
HAWAII	1.70	1.70	INDIANA (Cont'd.)		
Hawaii-Hilo	1.70	1.70	Logansport	.92	.92
Kauai	1.91	1.90	Marion	.93	.93
- Maut	1.54	1.56	Michigan City	1.22	1.22
Oahu	1.51	1.51	Muncie	.97	.97
			Richmond	.94	.93
IDAHO	.97	.99	South Bend	.99	.99
Boise	1.00	1.01	Terre Haute	.98	.98
Caldwell	.99	1.00	101414		
Coeur d' Alene	.98	1.00	IOWA	.99	.98
Idaho Falls	.99	1.01	Burlington	.98	.98
Lewiston	.94	.96	Cedar Rapids	.99	.98
Moscow	.95	.96	Council Bluffs	.91	.92
Pocatello	.95	.96	Davenport	1.07	1.06
Twin Falls	.99	1.00	Des Moines	.96	.97
		•	Dubuque,	1.05	4.00
ILLINOIS	1.14		on boage	.97	.97
Alton	1.07	1.08	Iowa City	1.01	.99
Aurora	1.24	1.25	Mason City	1.03	1.00
Belleville	1.10	1.12	Sioux City	.93	.92
Bloomington	1.09	1.09	Waterioo	.99	.98
Carbondale	1.07	1.09			
Centralia	1.08	1.09	KANSAS	.96	.96
Champaign	1.09	1.09	Dodge City	.90	.92
Chicago	1.27	1.27	Fort Scott	.95	.93
Danville	1.09	1.08	Garden City	.87	.88
De Kalb	1.22	1.23	Goodfand	.91	.92
Decatur	1.10	1.09	Hays	.84	.86
East St. Louis	1.10	1.10	Kansas City	1.10	1.10
Elgin	1.24	1.24	Lawrence	1.06	1.06
Evanston	1.24	1.25	Liberal	.85	.87
Galesburg	1.08	1.07	Manhattan	.97	.97
Joliet	1.24	1.24	Olathe	1.10	1.11
Kankakee	1.27	1.25	Overland Park	1.10	1.11
Marion	1.07	1.09	Pitisburg	.90	.90
Moline	1.04	1.04	Salina	.93	.94
Normal	1.10	1.10	Topeka	.96	.99
Peoria	1.10	1.09	Wichita	.89	.91
Quincy	1.13	1.14			
Rock Island	1.08	1.06	KENTUCKY	.96	.96
Rockford	1.18	1.17	Ashland	1.05	1.03
Skokie	1.28	1.27	Bowling Green	.93	.93
Springfield	1.10	1.10	Covington	.96	.96
Urbana	1.09	1.09	Frankfort	.95	.94
Waukegan	1.22	1.24	Lexington	.95	.94
			Louisville	.98	.96
INDIANA	1.01	1.01	Newport	.96	.96
Anderson	.96	.96	Owensboro	.95	.97
Bloomington	.99	.99	Paducah	.94	.94
Columbus	.97	.97			
Elkhart ,	1.00	.99	LOUISIANA	.89	.89
Evansville	.99	.99	Alexandria	.88.	.89
Fort Wayne	.97	.98	Baton Rouge	.89	.89
Gary	1.23	1.23	Lafayette	.90	.89
Hammond	1.23	1.23	Lake Charles	.85	.89
Indianapolis	.99	.98	Monroe	.89	.89
Kokomo	.98	.97	New Orleans	.91	.90
Lafayette	.98	.98	Shreveport	.90	.91

Alton IL = 1.07



Use the "Cheat Sheet"

See the State of Illinois Post Flood Packet

May 20, 2013

State of Illinois Flood Damage Assessment Packet

A cooperative effort by:

Illinois Department of Natural Resources / Office of Water Resources

Illinois Emergency Management Agency

Federal Emergency Management Agency



2013 update

Includes Information On:
Steps to take following a flood
Substantial damage determinations
FEMA Substantial Damage Estimator (SDE)
Damage Assessment Field Worksheet
Sample letter
Sample notice
Sample press release
Information on mitigation programs









Final Output Summary

WHAT % DAMAGE DID YOU GET?



Voila! An Elevated Building!

Our work here is done – pop a cold one!

Grafton's assessment was:

39% damage in 2008

18% in 2011

Total = 57%

fppt.com



The Rulo's chose to:

- 1) tear down the old damaged home
- 2) Use their insurance (damage) claim and ICC to build a new elevated structure
- 3) Enjoy the view from their new deck overlooking the river.





Paul Osman, CFM
Floodplain Programs Manager
Illinois Office of Water Resources
One Natural Resources Way
Springfield, IL 62702

(217) 782-4428 paul.osman@illinois.gov

