Substantial Damage Estimates and RAFT IAFSM 2024 - Peoria, IL March 12, 2024







Rapid Assistance Flood Team (RAFT)

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IAFSM Floodplain Management Committee Chair
RAFT Contact
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Does Illinois flood?





As of 2014, there has been a federally declared flood disaster in every county in Illinois.

What is the purpose of RAFT?

- Assist communities in completing their post flood response quickly and accurately
- Capture highwater marks and determine damages before clean up and repairs begin
- Tag properties and provide permitting information to community
- Provide technical support
- Provide emotional support to community officials facing enforcement
- Provide experience to more CFMs in our state to improve post flood damage estimates and substantial damage enforcement



Who can be a **R**apid **A**ssistance Flood **T**eam member?

- Members of the Illinois Association for Floodplain and Stormwater Management (IAFSM).
- Must be a Certified Floodplain Manager.
- Professionals from local, state, federal agencies and private sector consultants.
- Professionals trained in post-flood responsibilities.
- Volunteers who have agreed to assist communities in times of need.

Facing assessments of hundreds of flooded homes?

Community officials can take advantage of the expertise of IAFSM members!

- Over 800 IAFSM members
- ▶ Nearly 600 CFMs in Illinois
- Volunteers with flood damage inspection and estimating experience



RAFT allows local officials the time to focus on structures with 40-60% damages.



NFIP Post Flood Responsibilities

- Get out and map highwater marks and structures touched by floodwaters
- Choose a method of estimating damages, consider FEMA's Substantial Damage Estimator tool if many buildings are damaged
- Move fast Inspect, tag, photograph and document flood height and damages of all flooded structures
- Complete damage assessments. When a structure is at or near the 50% threshold, a room-by-room inspection and estimate of damages should be completed.
- Send letters out to all property owners.
- Consider recording letters for buildings with 40% or more damage
- Require compliance and building permits for <u>all</u> repairs and mitigation if necessary
- Post information to the public on permit requirements
- Provide guidance to property owners

How Does a Community Request RAFT Help?

Illinois Association for Floodplain and Stormwater Management 35W749 Bluff Drive

St. Charles, IL 60175

RE: Request for IAFSM RAFT Assistance

To Whom It May Concern:

On (insert date), the (insert community) suffered severe flooding. This letter serves to request the assistance of the IAFSM RAFT to assist local officials with damage assessment and other disaster response functions.

In making this request, the (insert community) agrees to indemnify and hold harmless the IAFSM, its agents and assigns, and any persons who participate in Rapid Assistance Flood Team activities for any actions or inactions during the course of the disaster response. Furthermore, the (insert community) agrees and declares that any actions taken by any of the above-referenced persons in the course of providing assistance are to be considered duly authorized actions of the (insert community).

The (insert community) has designated the following staff member as primary point of contact for the IAFSM RAFT Volunteer(s):

John Flood Floodplain Manager (XXX) XXX_XXXX fpm@XXX.org

- A formal request letter must be sent to the IAFSM Floodplain Management Chairman
- This letter also serves as a release of liability
- Initial request is often prompted by outreach from the state NFIP coordinator



Will Requesting RAFT cost a Community Anything?

- RAFT members volunteer their time
- Per diem and travel are reimbursed to them by IAFSM (using current State of Illinois travel rates)
- Most communities provide coffee, water bottles and a simple pizza lunch
- If overnight lodging is required, it must be provided by the host community.



RAFT Volunteer Commitment

- Volunteers commit for one or possibly two days depending on the number of structures affected.
- Assessments are typically completed during the work week. If overnight lodging is required, it must be provided by the host community.
- Volunteers can reimbursed for travel or per diem by IAFSM if requested.



Role of IAFSM – Floodplain Committee Chair

- Acts as overall coordinator of RAFT program
- Coordinates finding volunteers for each request
- Ensures RAFT member liability waiver forms are updated, signed annually and maintained on file
- Coordinates logistics for deployment to host community
- Provides damage assessment packet and volunteer packet
- Provides annual training to ensure RAFT volunteers use consistent and industry accepted damage assessment methods developed by IAFSM to ensure equitability.

RAFT Requirements for Volunteers



- Attend training every other year to be prepared for damage assessment response
- Maintain IAFSM membership and Certified Floodplain Managers (CFMs) license
- Provide equipment (digital camera, clip board, etc.) and clothing (boots, mask, etc.) necessary to conduct damage assessments
- Provide digital photos of damage assessments and digital files to the host community.
- Provide a vehicle to get to the host community and conduct damage assessments
- Bring a personal photo identification badge to wear during inspections
- Provide a signed liability waiver form annually

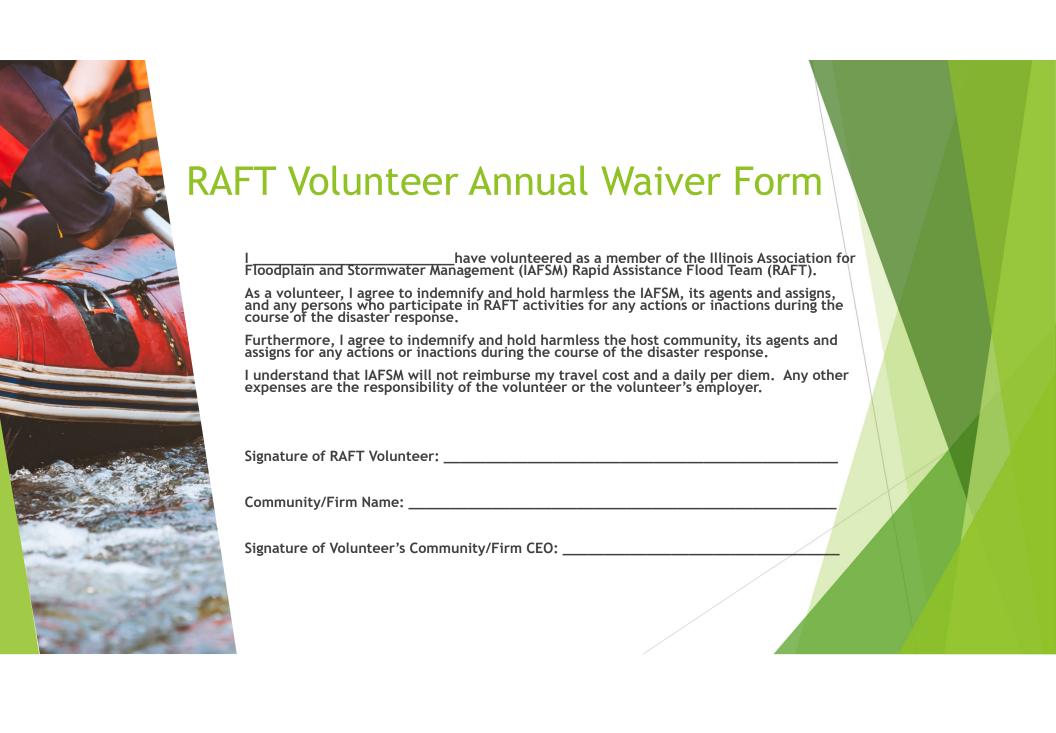


RAFT Expectations for Host Community

- Provide official ID tag or letter from community
- Provide a local host to coordinate the RAFT volunteers
- Provide a local contact or cell phone number for RAFT volunteers in case of emergency (police or fire)
- Provide a morning meeting location and afternoon wrap-up location
- Provide RAFT volunteer with damage assessment worksheets and map with assigned addresses to inspect
- Maintain records of damage assessments
- Ensure follow up on damage assessments and compliance with floodplain regulations
- Reimburse IAFSM for the travel and per diem expenses paid to RAFT volunteers if the host community has the financial means or if disaster assistance funding is obtained.
- Provide a pizza lunch!

RAFT Volunteer Agreement

Name:	
Firm/Community/County:	
Address:	
Phone: ()	FAX: ()
E-Mail Address:	-
	go Metro ()
I am a Certified Floodplain Manag	ger and my No. is
I have performed number of Estimator Tool	of damage assessments using FEMA's Substantial Damage
I have years of experience	with conducting damage assessments for
I have participated in the annual	IAFSM R.A.F.T. annual training in 20
EXPERTISE TO BE PROVIDED RELA (damage assessment & estimating	TING TO DISASTER RESPONSES: g, expedient design, building code inspections, etc.)
Emergency Contact:	
Name: Phone Bus.: ()	
Email:	Phone Cell: ()
Signed:	Date:





RAFT Volunteers -Equipment Required

- RAFT Guidance Booklet with sample documents
- Bug repellant/sunscreen
- Clipboard
- Pen/Pencil
- Tape Measure (100 Foot)
- Local identification badge
- Flashlight
- Boots
- Rubber Gloves
- Face mask (N95)
- Digital Camera
- Cell phone
- ID and health insurance card



Why Should a Community Ask for RAFT?

- Brings in professionals with substantial damage assessment knowledge
- Quick inspections to find your substantially damaged structures before repairs begin
- Outreach with permitting requirements
- Weeks of work completed in a day or two
- > Helps you remain NFIP compliant
- Gets your community and residents on the fast lane to recovery
- Cost you NOTHING! (except for a few pizzas)
- Opportunity to make a few more friends! Especially needed over the weeks ahead.

Basic NFIP Requirements

- Ensure that all proposed development is reasonably safe from flooding.
- Ensure that the lowest floor of any structure in the SHA is elevated to or above the base flood elevation.
- Ensure that work done in the floodway does not increase the Base Flood Elevation.
- All work done in the floodplain needs a permit before proceeding
- If a building in a floodplain is determined to be substantially improved or substantially damaged it must be brought into compliance with local floodplain management regulations.



Substantial Damage

Damage of **any origin** sustained by a building in a floodplain whereby the damage (or cumulative percentage of damage during 10-year period) equals or exceeds 50 percent of the market value of the building before the damage occurred, regardless of actual repair work performed.

The market value of volunteer labor and materials must be included in this determination.



Calculating SD

The Cost to Repair must include all costs necessary to fully repair the structure to it's pre damage condition. Notice that the formula uses "cost to repair," not "cost of repairs."

Examples:
$$\frac{$30,000}{$100,000} = 0.3 \times 100 = 30\%$$

 $\frac{$75,000}{$100,000} = 0.75 \times 100 = 75\%$

Monitor damaged structures for added improvements which may lead them to a Substantial Improvement.



Calculating Cumulative Substantial Improvement and Substantial Damage Issues

If a Substantial Improvement is permitted just below the 50% threshold and the building floods or needs a new roof within the cumulative period, the requirement to elevate, relocate, demolish, or floodproof (non-residential) is triggered

2010 kitchen remodel- 30%
+ 2023 flood damage - 30%
60% mitigation required

Cumulative rules that extend beyond 10-years of accrued time will not provide access to Increased Cost of Compliance funds under a NFIP policy.

2008 flood damage - 30% + 2023 flood damage - 30%

60% mitigation required

(15-year spread, not eligible for ICC claim under NFIP policy for up to \$30,000 for mitigation)



Proposed Substantial Improvement vs. Substantial Damage Determination

- Substantial Improvement is based on a voluntary request to improve a building where the cost equals or exceeds the 50% threshold.
- An improvement project can be downscaled to go below 50%
- Substantial Damage means the house has been damaged and REGARDLESS of repairs the building must be brought into compliance.
- A Substantial Damage determination requires mitigation.



Resources and Guidance

Flood Smart

https://www.floodsmart.gov

FEMA Map Service Center and National Flood Hazard Layer

- MSC https://msc.fema.gov
- NFHL https://msc.fema.gov/nfhl

FEMA Mapping and Insurance eXchange (FMIX)

- Customer Care Center -- 877-336-2627
- https://floodmaps.fema.gov/fhm/fmx_main.html

Substantial Improvement/Substantial Damage Desk Reference

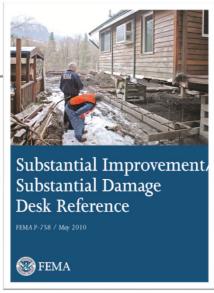
https://www.fema.gov/media-library-data/20130726-1734-25045-2915/p 758 complete r3.pdf

Answers to Questions about Substantially Improved/Substantially Damaged

Answers to Questions About Substantially Improved/Substantially Damaged Buildings FEMA 213

Answers to Questions about Increased Cost of Compliance

- Increased Cost of Compliance Coverage | FEMA.gov
- https://www.fema.gov/sites/default/files/2020-08/fema_increased-cost-of-compliance_factsheet.pdf





SD Tools and Online Training

Substantial Damage Estimator (SDE) Tool

- Software
 - https://www.fema.gov/sites/default/files/2020-07/SDE3 04062018.zip
- User Manual and Field Workbook:
 - https://www.fema.gov/sites/default/files/2020-07/sde 3.0 user manual field workbook 0.pdf

FEMA's Emergency Management Institute (EMI) Independent Study Courses

- IS-284.A: Using the Substantial Damage Estimator 3.0 Tool
 - https://training.fema.gov/is/courseoverview.aspx?code=IS-284.a
- IS-285: Substantial Damage Estimation for Floodplain Administrators
 - https://training.fema.gov/is/courseoverview.aspx?code=IS-285



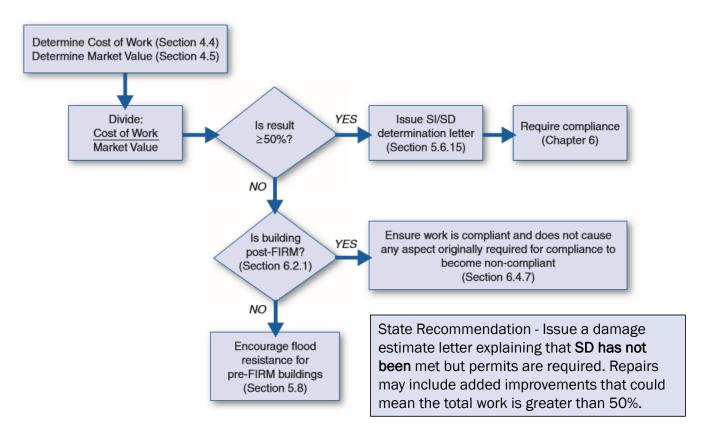
Substantial Damage Estimator (SDE) User Manual and Field Workbook

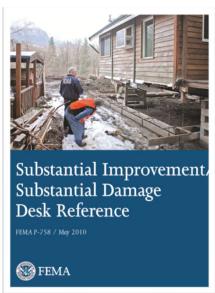
Using the SDE Tool to Perform Substantial Damage Determinations

FEMA P-784 / Tool Version 3.0 / August 2017









Substantial Damage Determination SDE 3.0 Flow Chart



SD Tools and Online Training (cont.)

FEMA YouTube SDE Training Modules (10 modules)

https://www.youtube.com/watch?v=5W0CDF1Wods&list=PL720Kw_0oj IKaUGLcplGiC2Gw9-lutGHt

Example SD Plans

Template for a Substantial Damage Management Plan
 https://crsresources.org/files/500/sde_credit_template.docx



Substantial Damage Estimator (SDE) User Manual and Field Workbook

Using the SDE Tool to Perform Substantial Damage Determinations

FEMA P-784 / Tool Version 3.0 / August 2017





NFIP Technical Bulletins

- TB-1 Requirements for Flood Openings in Foundation Walls and Walls of Enclosures
- TB-2 <u>Flood Damage-Resistant Materials</u> <u>Requirements</u>
- TB-3 Requirements for the Design and Certification of Dry Floodproofed Non-Residential and Mixed-Use Buildings
- TB-4 <u>Elevator Installation for Buildings Located in Special Flood Hazard Areas</u>
- TB-5 <u>Free of Obstruction Requirements For</u>
 <u>Buildings Located in Coastal High Hazard Areas</u>



Openings in Foundation Walls and Walls of Enclosures

Below Elevated Buildings in Special Flood Hazard Areas in accordance with the National Flood Insurance Program

Technical Bulletin 1 / August 2008



NFIP Technical Bulletins

- TB-6 Requirements for Dry Floodproofed Below-Grade Parking Areas Under Non-Residential and Mixed-Use Buildings Located in Special Flood Hazard Areas
- TB-7 Wet Floodproofing Requirements for Structures Located in Special Flood Hazard Areas
- TB-10 Reasonable Safe From from Flooding
 Requirement for Building on Filled Land Ensuring
 That Structures Built on Fill In or Near Special Flood
 Hazard Areas Are Reasonably Safe From Flooding
- TB-11 <u>Crawlspace Construction for Buildings</u>
 <u>Located in Special Flood Hazard Areas</u>



Removed From the Special Flood Hazard Area in Accordance with the National Flood Insurance Program NFIP Technical Bulletin 10 / March 2023



State Specific Resources

- Floodplain Management Resources Water Resources (illinois.gov)
- State of Illinois Flood Damage Assessment Packet (illinois.gov)
- SI/SD Permit Packet Template (illinois.gov)
- Rapid Flood Assessment Team Guidance (illinois.gov)
- Illinois Association for Floodplain and Stormwater Management (illinoisfloods.org)
- Are You Flood Ready (prepare.illinoisfloods.org)





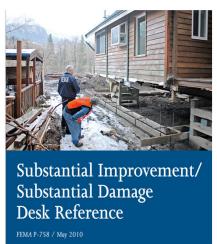


Costs That Must be Included in SD determinations

- The term includes the cost of all materials, labor, and other items necessary to perform the proposed work.
- Costs that must be included in SD determinations but not limited to:

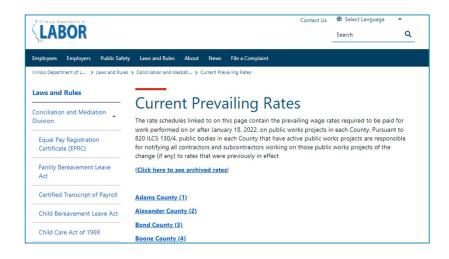


- Interior finish elements
- Utility and service equipment
- Contractor's overhead and profit
- Construction management and supervision
- Labor and other costs associated with demolishing, moving, or altering building components to accommodate improvements, additions, and making repairs
- Materials and labor, including the estimated value of donated or discounted materials and owner or volunteer labor



Calculating Wages and Profit

- The Desk Reference has limited guidance.
- Wages (pg. 4-8) are to be the "going rate", says to use minimum-hour wage scales for the skill and type of work being done.



- Many property owners get a contractors estimate just to estimate the work. If they provide an insurance adjuster's estimate you will see their wages for the various construction skills.
- IL Department of Labor published prevailing wage rate tables for each county: https://labor.illinois.gov/laws-rules/conmed/current-prevailing-rates.html

State of Illinois Flood Damage Assessment Packet



February 2024

Includes Information On: Steps to Take Following a Flood Substantial Damage Determinations - "The 50% Rule" Damage Inspection Worksheets Sample Post Flood Door Hanger FEMA Substantial Damage Estimator (SDE 3.0) Illinois Damage Assessment Cheat Sheet Sample Handout for Residents Sample Press Release Sample Substantial Damage Letter Sample Flood Damage Letter Sample Building Notice Temporary Certificate of Occupancy Sample Right of Entry Permission Form Help with Damage Assessments State Floodway Permit-Regulatory Issues Mitigation Grant Information





Increased Cost of Compliance Funds for Substantially Damaged Buildings





Substantial Damage Estimator (SDE) User Manual and Field Workbook

Using the SDE Tool to Perform Substantial Damage Determinations

FEMA P-784 / Tool Version 3.0 / August 2017

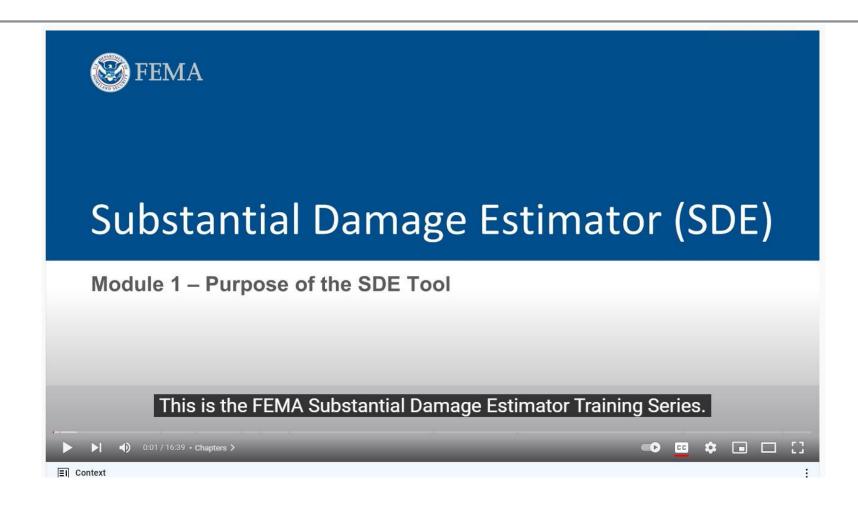




Community Name		Inspector(s)	
Inspection #	Photo #	Da	te
PROPERTY LOCATIO	ON and Owner's Mailing Add	lress (if Different from p	roperty address)
Owner Name		Owner Cell	
Address	Mailing Address		
City, State, Zip	Mailing C/St/Zip		
County	PIN		
STRUCTURE ATTRIE	BUTES		
Residence Type:	 Manufactured House 	Foundation:	Ocontinuous Wall w/Slab
			Basement
			○ Crawlspace
			O Piles
			○ Slab-on-Grade
			O Piers & Posts
Superstructure:	O Stud-Framed	Roof Covering:	O Shingles – Asphalt, Wood
	Common Brick		Clay Tile
	○ ICF		Standing Seam (Metal)
	Masonry		○ Slate
Exterior Finish:	O Siding or Stucco	HVAC System:	Heating and/or Cooling
	 Brick Veneer 		○ None
	Exterior Insulation Finishing Systems (EIFS)		
	None – common brick,	structural	
Story:	One Story	Quality:	Clow
	 Two or more Stories 		Budget
	Split Level		Average
			Good
			○ Excellent
Year of Constructio			
	rred://		-
Cause of Damage:		Duration of Flood:	
	OFlood		O Days
	O Flood and Wind	Booth of Floor City	
	Seismic	Depth of Flood Abov	e Ground:
	○ Wind	Donath of Floor Attorn	- 1st ri
	Other		e 1st Floor:
			Crawlspace: Basement:
		Page 1 of 2	-

Number of Stories:	Square Footage		
Basement	Crawlspace	-	
Garage-Attached		ed	
Other Notes:			
OTHER COST ADJUSTMENTS:	Describe and provide of	uantity or square footag	e
Heating/Cooling:			
Appliances:			
Flooring:			
Garage:			
Porch/Breezeway:			
Fireplace:	- Alexander		
Other:			
General Condition (circle one):	Needs extensive repair	Minor repairs	Average
	Above average exceller	nt Excellent	
	Other	_	
ELEMENT PERCENTAGES (Refer to			
	o Damage Assessment Cl		%
Foundation	o Damage Assessment Cl _%	neat Sheet for guidance)	% %
oundation	o Damage Assessment Cl _% _ %	Floor Finish	
Foundation	o Damage Assessment Cl _% _% _%	Floor Finish Plumbing	%
Foundation Superstructure Roof Covering Exterior Finish	o Damage Assessment Cl % _% _% _% _%	neat Sheet for guidance) Floor Finish Plumbing Electrical	% %
Foundation Superstructure Roof Covering Exterior Finish Doors and Windows	o Damage Assessment Cl % _ % _ % _ % _ %	Floor Finish Plumbing Electrical Appliances	% % %
Foundation Superstructure Roof Covering Exterior Finish Doors and Windows Cabinets & Countertops	o Damage Assessment Cl % _ % _ % _ % _ %	Floor Finish Plumbing Electrical Appliances Interior Finish	% % %
Foundation Superstructure Roof Covering Exterior Finish Doors and Windows Cabinets & Countertops	o Damage Assessment Cl % _ % _ % _ % _ %	Floor Finish Plumbing Electrical Appliances Interior Finish	% % %
Foundation Superstructure Roof Covering Exterior Finish Doors and Windows Cabinets & Countertops	o Damage Assessment Cl % _ % _ % _ % _ %	Floor Finish Plumbing Electrical Appliances Interior Finish	% % %
Foundation Superstructure Roof Covering Exterior Finish Doors and Windows Cabinets & Countertops	o Damage Assessment Cl % _ % _ % _ % _ %	Floor Finish Plumbing Electrical Appliances Interior Finish	% % %
Foundation Superstructure Roof Covering Exterior Finish Doors and Windows Cabinets & Countertops	o Damage Assessment Cl % _ % _ % _ % _ %	Floor Finish Plumbing Electrical Appliances Interior Finish	% % %
Superstructure	o Damage Assessment Cl % _ % _ % _ % _ %	Floor Finish Plumbing Electrical Appliances Interior Finish HVAC	% % %

SDE Tool – YouTube Training Series

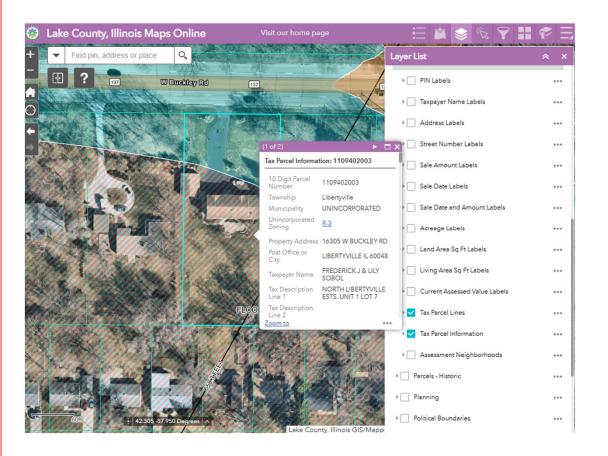


Residential

SDE DAMAGE INSPECTION WORKSHEET

Single-Family, Town or Row House (Site Built Residences), or Manufactured House

Address:					
SDE ADDRESS Tab					
Subdivision / Commu	unity Information				
Subdivision:	Parcel Number:				
Lot Number:	_Elevation of Lowest Floor:	Datum:			
Community Informati	ion				
NFIP Community ID:	Community ID: NFIP Community Name:				
Latitude:	Longitude:				
Building Address					
Owner First Name:	Owner Last Name:				
Street Number:	Street Name:	Street Suffix:			
City:		State:			
County/Parish:		Zip:			
Phone:	Cell Phone:				
Mailing Address	Check here if same as bu	uilding address:			
First Name:	-				
Last Name:					
Street Number: Street Name:		Street Suffix:			
City:		State:			
County/Parish:		Zip:			
Phone:	Cell Phone:				
SDE Residential Damage	e Inspection Worksheet	1 of			

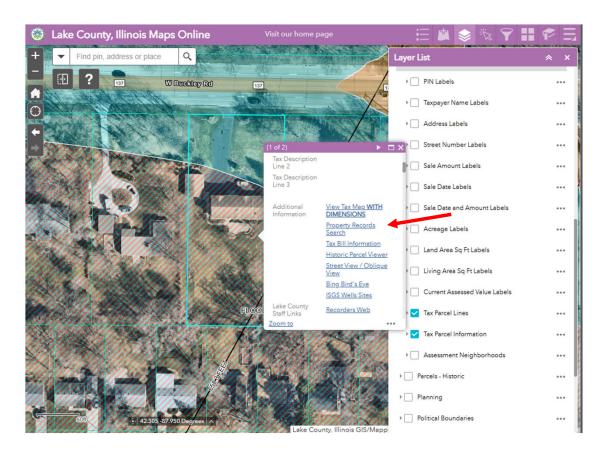


Residential

SDE DAMAGE INSPECTION WORKSHEET

Single-Family, Town or Row House (Site Built Residences), or Manufactured House

Address:		
SDE ADDRESS Tab		
Subdivision / Comm	unity Information	
Subdivision:		Parcel Number:
Lot Number:	Elevation of Lowest Floor:	Datum:
Community Informati	tion	
NFIP Community ID:	NFIP Community Name	e:
Latitude:	Longitude	:
Building Address		
Owner First Name:	Owner La	ast Name:
Street Number:	Street Name:	Street Suffix:
City:		State:
County/Parish:		Zip:
Phone:	Cell Phone:	
	Check here if same as bui	lding address:
	Street Name:	
City:		State:
County/Parish:		Zip:
Phone:	Cell Phone:	
SDE Residential Damag	ge Inspection Worksheet	1 of



Structure Attribu	tes / Information					
Residence Type:	Single Fam	nily To	own or Row House	_ Manufactured I	House	
Foundation:	Continuous Wal	l w/Slab (Sta	andard) Baseme	nt Crawlsp	ace	
_	Piles Sla	b-on-Grade	Piers and Posts			
Superstructure: _	Stud-Framed	(Standard)	Common Brick	ICF	Masonry	
Roof Covering: _	Shingles - A	sphalt, Wood	d (Standard) Cla	y Tile Stan	nding Seam ((Metal)
_	Slate					
Exterior Finish: _	Siding or Stu	cco (Standa	ard) Brick Veneer	EIFS		
_	None – comm	non brick, str	ructural			
HVAC System: _	Heating and/	or Cooling	None			
Story: One	Story (Standard)	Two	or More Stories			
Year of Construct						
Year of Construct Quality of Initial C	on:		_Budget Averag			nt
Year of Construct Quality of Initial C	on:		_Budget Averag			nt
Year of Construct Quality of Initial C	on:					nt
Year of Construct Quality of Initial C Residence Informa	on: onstruction: ation (if needed):					nt
Year of Construct Quality of Initial C Residence Information	onstruction: ation (if needed):					
Year of Construct Quality of Initial C Residence Information Inspector / Damage	on:onstruction: ation (if needed):		Inspec	tor's Phone:		
Year of Construct Quality of Initial C Residence Information Inspector / Damage Inspector's Name: Date of Inspection	onstruction:ation (if needed):e Information		Inspec Date Damage Occur	tor's Phone:red (mm/dd/yyyy):		
Year of Construct Quality of Initial C Residence Information Inspector / Damage Inspector's Name: Date of Inspection Cause of Damage:	on:onstruction:ation (if needed): the Information (mm/dd/yyyy): Fire	_ Flood	Inspec	tor's Phone: red (mm/dd/yyyy): Seismic	Wind	Othe

Some Assessor websites or County GIS will have easily available structure data, year of construction and even photos. Ex. Below from Cook Co GIS and link to assessor.

The damage inspection can fill in the structure attribute, describe the quality of construction, and take photos. The assessor will need to give year constructed.

One story residence, DESCRIPTION One Story **RESIDENCE TYPE** Single Family **APARTMENTS** Frame/Masonry **EXTERIOR CONSTRUCTION FULL BATHS** HALF BATHS 0 BASEMENT¹ Slab ATTIC Full **CENTRAL AIR** No NUMBER OF FIREPLACES 0 GARAGE SIZE/TYPE² 1 Car 69 AGE BUILDING SQUARE FOOTAGE 972

ASSESSMENT PHASE



Structure Attribu	tes / Information					
Residence Type:	Single Fam	nily To	own or Row House	_ Manufactured I	House	
Foundation:	Continuous Wal	l w/Slab (Sta	andard) Baseme	nt Crawlsp	ace	
_	Piles Sla	b-on-Grade	Piers and Posts			
Superstructure: _	Stud-Framed	(Standard)	Common Brick	ICF	Masonry	
Roof Covering: _	Shingles - A	sphalt, Wood	d (Standard) Cla	y Tile Stan	nding Seam ((Metal)
_	Slate					
Exterior Finish: _	Siding or Stu	cco (Standa	ard) Brick Veneer	EIFS		
_	None – comm	non brick, str	ructural			
HVAC System: _	Heating and/	or Cooling	None			
Story: One	Story (Standard)	Two	or More Stories			
Year of Construct						
Year of Construct Quality of Initial C	on:		_Budget Averag			nt
Year of Construct Quality of Initial C	on:		_Budget Averag			nt
Year of Construct Quality of Initial C	on:					nt
Year of Construct Quality of Initial C Residence Informa	on: onstruction: ation (if needed):					nt
Year of Construct Quality of Initial C Residence Information	onstruction: ation (if needed):					
Year of Construct Quality of Initial C Residence Information Inspector / Damage	on:onstruction: ation (if needed):		Inspec	tor's Phone:		
Year of Construct Quality of Initial C Residence Information Inspector / Damage Inspector's Name: Date of Inspection	onstruction:ation (if needed):e Information		Inspec Date Damage Occur	tor's Phone:red (mm/dd/yyyy):		
Year of Construct Quality of Initial C Residence Information Inspector / Damage Inspector's Name: Date of Inspection Cause of Damage:	on:onstruction:ation (if needed): the Information (mm/dd/yyyy): Fire	_ Flood	Inspec	tor's Phone: red (mm/dd/yyyy): Seismic	Wind	Othe

St. Clair Co

BLDG # 1 Style (Tb-02)		One Story D+10 Fair
Quality (Yr-95) Building Use Exterior Wall 1	0040	Single Fami Frame
Exterior Wall 2 Foundation Adj Basement	С	Crawl
Combination Attic Area		
Heat/AC Adj Comb Ht/AC Adj	AC	Central Air
Fireplace	00	N/A
Extra Fireplace		N/A
Res Fixtures	0005	05 Fixtures
Garage	F	Garage Attd
Mobile Home Design Adj	0000	N/A N/A
Actual Year Blt	Late and the second	N/A
Effect Year Blt		
Normal Depr Tbl		Res CDU - P
Functional Obs.	000000	

Residence Type: Single Family Town or Row House Manufactured House Foundation: Continuous Wall w/Slab (Standard) Basement Crawlspace Piles Slab-on-Grade Piers and Posts Superstructure: Stud-Framed (Standard) Common Brick ICF Masonry Roof Covering: Shingles – Asphalt, Wood (Standard) Clay Tile Standing Seam (Me Slate Exterior Finish: Siding or Stucco (Standard) Brick Veneer EIFS None – common brick, structural HVAC System: Heating and/or Cooling None Story: One Story (Standard) Two or More Stories	tal)
Foundation: Continuous Wall w/Slab (Standard) Basement Crawlspace Piles Slab-on-Grade Piers and Posts Superstructure: Stud-Framed (Standard) Common Brick ICF Masonry Roof Covering: Shingles – Asphalt, Wood (Standard) Clay Tile Standing Seam (Me Slate Exterior Finish: Siding or Stucco (Standard) Brick Veneer EIFS None – common brick, structural HVAC System: Heating and/or Cooling None Story: One Story (Standard) Two or More Stories	ttal)
Piles Slab-on-Grade Piers and Posts Superstructure: Stud-Framed (Standard) Common Brick ICF Masonry Roof Covering: Shingles – Asphalt, Wood (Standard) Clay Tile Standing Seam (Me Slate Exterior Finish: Siding or Stucco (Standard) Brick Veneer EIFS None – common brick, structural HVAC System: Heating and/or Cooling None Story: One Story (Standard) Two or More Stories	ttal)
Superstructure: Stud-Framed (Standard) Common Brick ICF Masonry Roof Covering: Shingles – Asphalt, Wood (Standard) Clay Tile Standing Seam (Me	ital)
Roof Covering: Shingles – Asphalt, Wood (Standard) Clay Tile Standing Seam (Me Slate Exterior Finish: Siding or Stucco (Standard) Brick Veneer EIFS None – common brick, structural HVAC System: Heating and/or Cooling None Story: One Story (Standard) Two or More Stories	tal)
Slate Exterior Finish: Siding or Stucco (Standard) Brick Veneer EIFS None – common brick, structural HVAC System: Heating and/or Cooling None Story: One Story (Standard) Two or More Stories	tal)
Exterior Finish: Siding or Stucco (Standard) Brick Veneer EIFS None – common brick, structural HVAC System: Heating and/or Cooling None Story: One Story (Standard) Two or More Stories	
None – common brick, structural HVAC System: Heating and/or Cooling None Story: One Story (Standard) Two or More Stories	
HVAC System: Heating and/or Cooling None Story: One Story (Standard) Two or More Stories	
Story: One Story (Standard) Two or More Stories	
Structure Information	
Year of Construction: Low Budget Average Good Excellent Residence Information (if needed):	-
nspector / Damage Information	-
nspector's Name: Inspector's Phone:	_
Date of Inspection (mm/dd/yyyy): Date Damage Occurred (mm/dd/yyyy):	_
Cause of Damage: Fire Flood Flood and Wind Seismic Wind	Other
Cause of Damage (if "Other" is selected):	

Lake Co

Physical Characteristics

Style: 65

Model: Two Story Construction: Frame Quality Grade: Avg+ Condition: AV

Brick: 182 SF / 0 Lin SF

Year Built / Effective: 1955 / 1992 Attic Fin Area / Misc Fin Area: 0 / 0 Basement Area / Finished Area: 0 / 0 Lower Level Area / Finished Area: 0 / 0

Bedrooms: 5

Full Baths / Half Baths / Total Fixtures: 4 / 1 / 15

Basement Features: Central Air: **Yes** Fireplaces:

Roof Cover: Comp sh to 235#

Garage Attached / Detached / Carport Area: 0 / 7 / 0

Garage Attached / Detached / Carport Area: 0 / 720 / 0

Decks / Patio: 0 / 0
Decks / Patio Area: 0 / 0
Porches Open / Enclosed: 1 / 0
Porches Open / Enclosed Area: 5 / 0

Pool (Size): 0 Gazebo (Size): 0 Other Exterior Features: Other Structures:

Living Area

First Floor: 2,048 Second Floor: 1,526 Other Floor: 0

Total Above Ground Living Area (AGLA): 3,574

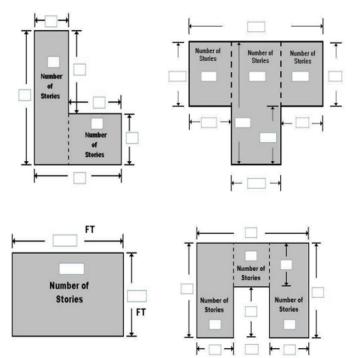
Lake County Township
Assessors Parcel
Search (imslake.org)

https://www.imslake.or g/SD/Lake/AssessorDB /PropertyDetail.aspx





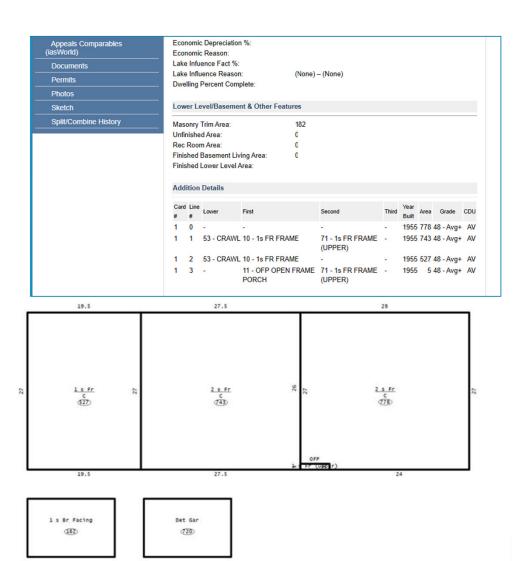
Select appropriate diagram of structure footprint and enter structure dimensions and the number of stories:



RAFT inspectors will take measurements unless you know all the data is available through assessor. Photos will show any discrepancy.

4 of 7

SDE Residential Damage Inspection Worksheet



COST Tab

Additional Cost Adjustments

<u>Adjustments</u>	Quantity	<u>Unit Cost</u>	Item Cost

Cost Data Reference (source or name):

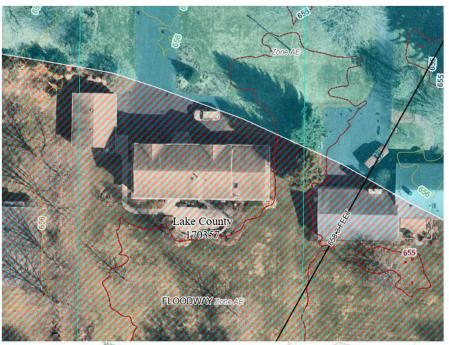
Some Assessors will have readily available data that can help. If not the photos, data, and measurements in the field are needed for any added features such as fireplaces, porches, etc.

		Improvement Details	
Bldg/Addn	#	Description	Units
1 of 1		101 / Single-Family / Owner Occupied	
		1 Story Frame	1,645 SF
		Adjustment for basement	
		Central Air	1,845 SF
	#1	Forch:1S Frame Open	38 SF
	#1	Deck:Wood Deck-Med	543 SF
	#2	Deck:Concrete Patio-Med	84 SF
		Plumbing	7
	#1	Fireplace: Masonry w/1 Extra, 1 Story	1
		Garage: Att Frame, 0' X 0'	825 SF
	BEx	FBAY	3
	BEx	SKYLITES	4
	BEx	CRAWLSPACE	2305
Addn	#1	2 Story Frame	660 SF

6 of 7

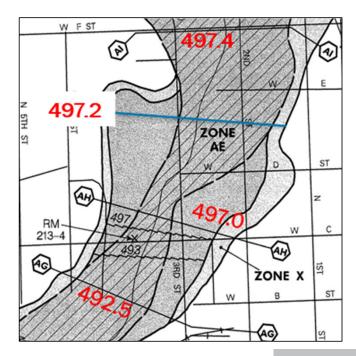
SDE Residential Damage Inspection Worksheet

Damage Undetermined: (check here and c	eck the reason below):
No Physical Damage SustainedVa	cant / Property Resident Refused Inspection
Address Does Not Exist 0	ner (Explain)
Duration of Flood: Hours Depth of Flood Above Ground (estimated to nearest Depth of Flood Above Lowest Floor (estimated to nearest NFIP / Community Information	0.5 foot): Marks or any
FIRM Panel Number: Suffix	Date of FIRM Panel (mm/dd/yyyy):
FIRM Zone: Base Flood Elevation:	
Regulatory Floodway: Yes No	Possible
Community Information (if needed):	Take Base Flood Elevations from maps



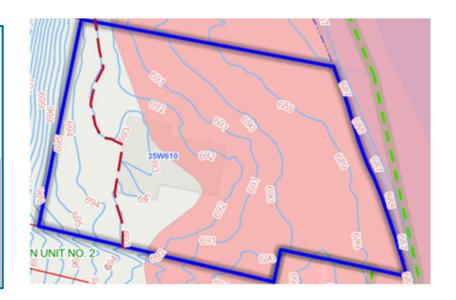


No Physical Damage SustainedVacant / Property Resident Refused Inspection Address Does Not Exist Other (Explain) Duration of Flood: Hours Days Depth of Flood Above Ground (estimated to nearest 0.5 foot): debris lines or highwater marks Depth of Flood Above Lowest Floor (estimated to nearest 0.5 foot): Place of FIRM Panel (mm/dd/yyyy): FIRM Panel Number: Suffix: Date of FIRM Panel (mm/dd/yyyy): FIRM Zone: Base Flood Elevation: Make sure you note if the desemble of the pasement or first floor or crawlspace	Damage Undetermined: (check here and check the reason below):	
Duration of Flood: Hours Days Depth of Flood Above Ground (estimated to nearest 0.5 foot): debris lines Or highwater MFIP / Community Information FIRM Panel Number: Suffix: Date of FIRM Panel (mm/dd/yyyy): FIRM Zone: Base Flood Elevation: Regulatory Floodway: Yes No Possible Community Information (if needed): Make sure you note if the basement or first floor in the same of the panel of the	No Physical Damage Sustained Vacant / Property	Resident Refused Inspection
Depth of Flood Above Ground (estimated to nearest 0.5 foot): based on debris lines or highwater marks NFIP / Community Information	Address Does Not Exist Other (Explain)	
Depth of Flood Above Ground (estimated to nearest 0.5 foot): based on debris lines or highwater marks NFIP / Community Information		
NFIP / Community Information FIRM Panel Number: Suffix: Date of FIRM Panel (mm/dd/yyyy): FIRM Zone: Base Flood Elevation: Regulatory Floodway: Yes No Possible Community Information (if needed):	Depth of Flood Above Ground (estimated to nearest 0.5 foot):	based on debris lines
FIRM Zone: Base Flood Elevation: Regulatory Floodway: Yes No Possible Community Information (if needed): basement or first floor	NFIP / Community Information	
Community Information (if needed): basement or first floor		
		basement or first floor



is depth is in a th full basement or full Take Base Flood Elevations from maps

SDE STRUCTURE / DAMAGE / NFIP INFO Tab Damage Undetermined: (check here and check the reason below):	
No Physical Damage Sustained Vacant / Property Resident Re Address Does Not Exist Other (Explain)	efused Inspection
	Flood depth based on
Duration of Flood: Hours Days Depth of Flood Above Ground (estimated to nearest 0.5 foot): Depth of Flood Above Lowest Floor (estimated to nearest 0.5 foot):	debris lines or highwater marks



You can check the flood depth between an inspection and a highwater mark. If you have a highwater mark at 693 and you know the ground near the front door is at about 692.5. You can look at a photo of the house showing two steps up front door. Step height around 7 inches and a few extra inches over the threshold. That gives about 16 inches to the top of the first floor. That puts the floor at 693.8.

Therefore, no water of first floor is expected, but the crawlspace and the duct work (if in the floor) would be flooded. If any mechanicals are in the crawlspace, they are damaged and the A/C unit, if at grade.

If the flooding was higher than the damages will include about flooring, drywall, cabinets, etc.

Note: The inspector needs only enter Damage Values columns will be popu SDE tool.									
Residence Type: Single-Fan	nily (SF) House _	Townhou	se Mar	nufactured House (M	IH)				
<u>Item</u>	<u> Item </u>								
Foundation (not required for MH)									
Superstructure									
Roof Covering									
Exterior Finish									
Interior Finish					1				
Doors and Windows					1				
Cabinets and Countertops									
Flood Finish									
Plumbing									
Electrical									
Appliances									
HVAC									
Skirting / Forms Piers (MH only)									
SDE OUTPUT SUMMARY Tab – Op Professional Market Appraisal:					_				
Tax Assessed Value:	Tax	Factor Adjust	ment:		_				
Adjusted Tax Assessed Va	lue:								
Contractor's Estimate of Damage:									
Community's Estimate of Damage:	:								
SDE Residential Damage Inspection Wo	orksheet			7	of i				

ELEMENT PERCENTAGE Tab

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



March 2020

<u>Includes Information On:</u> Steps to Take Following a Flood Substantial Damage Determinations Damage Assessment Worksheet FEMA Substantial Damage Estimator (SDE)
Sample Building Notice Sample Substantial Damage letter Sample Press Release Information on mitigation programs







ILLINOIS DAMAGE ASSESSMENT CHEAT SHEET

The SDE requires the inspector to estimate the percent of damage for various building components. The information compiled below can be used with the SDE worksheet for residential buildings, quickly calculating substantial damage. It is intended to be used as a screening tool so that the property owner is notified as soon as possible as to the potential status of his property. Often a more detailed assessment is warranted, and more detailed damage percentages should be determined on an as-needed basis.

	Super- structure	Exterior Finish	Interior Finish	Doors and Windows	Cabinets and Counters	Flooring	Plumbing	Electrical	Built in Appliances	HVAC
FLOOD DEPTH										
1-3 Inches	10	0	0	0	0	100	0	0	0	0
0.5 feet	10	5	5	10	20	100	0	0	0	0
1 foot	10	10	10	15	50	100	20	0	50	80
2 foot	10	30	30	40	50	100	30	20	100	80
3 foot	25	40	40	40	50	100	30	30	100	80
4 foot	25	50	50	75	70	100	30	60	100	80
>5 foot	50	50	100	100	100	100	50	80	100	80
Two story =	*	*	*	*		*	**	**		

For two story buildings the percentage for each building element is typically reduced as follows:

* = Reduce by 40 - 50% for two story home

** = Reduce by 25% for two story home

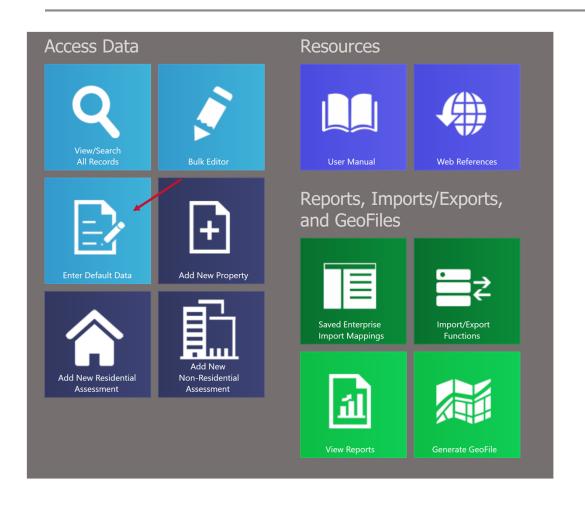
For split-level buildings use your best judgement for any adjustments to the damage percentages

Foundation

Basement or crawlspace:
10% minor clean up, re-seal, paint, etc.
50% if cracked bowed or fractured on one or more walls
100% if structural damage such as blow out or caved in walls

Slab on Grade
10% damage unless the foundation is undermined
30% if foundation is undermined
75% if foundation is broken or bowed or uplift

SDE Example – Enter Default Data



Community

State

Zip Code

NFIP Community Number

County

Date of Floodplain Map





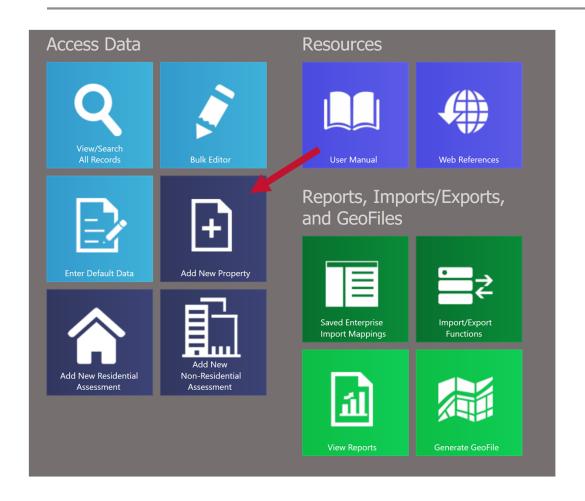








SDE Example – Adding Properties



Step 1
Build a list of properties
Using Add New Property













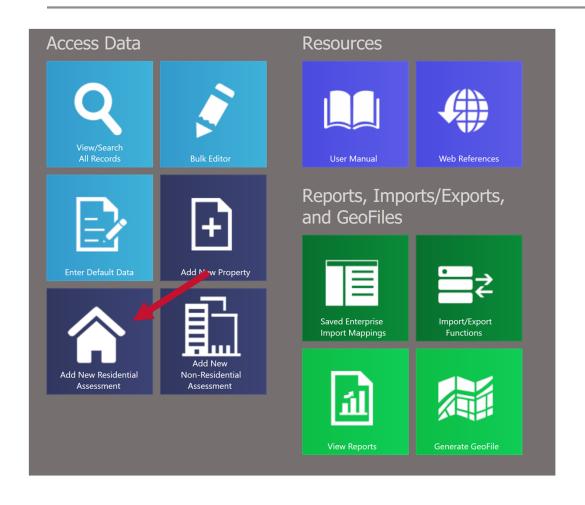


Total Number

Assessments

42

SDE Example – Adding Properties



Step 2
After the properties
are entered, you will
Add New Residential
Assessment or Add New
Non-Residential
Assessment

Access Data







Please Select a Property



Structure Owner Name	Property Address	County/Parish	Parcel Number	Lot Number	Subdivision	Year of Construction
Wesley Rencher	712 Terrace Drive	St Clair				1970
Zenobia Sumners	6764 Mary Avenue	St Clair				1951
Tramell Slaughter	6761 Mary Avenue	St Clair				1956
Mamie Weatherby	801 N 70th Street	St Clair	02220414016			1955
June Brown	760 Terrace Drive	St Clair				1961
Steven Drew	1 Terrace Court	St Clair				1959
Westley Rencher	6765 Mary Avenue	St Clair				1956
MLCP Asset Co Inc	6780 Mary Avenue	St Clair				1951
Andre Williams	728 N 68th Street	St Clair				1951
Illinois Reality Group Ho	6769 Mary Avenue	St Clair				1956
Louis Sanders	6779 Mary Avenue	St Clair				1956
Henry Walker	6783 Mary Avenue	St Clair				1956
Elvira Jones	6784 Mary Avenue					1951
Henry Walker	6774 Mary Avenue	St Clair				1951
Lillian Cook	6770 Mary Avenue	St Clair				1950
Cheryl Bell	6773 Mary Avenue	St Clair				1956
Trevorous Ellison	3 Terrace Court					1959
Sanchez Ford	4 Terrace Court	St Clair				1961
David Bevineau	750 N 68th Street	St Clair				1950

Preload using default values.

New Property

Use Selected Property



SDE Substantial Damage Estimator 3.0

Residential Assessment

Be sure to **SAVE** assessment record before generating a report.

Print Summary Report

Print Detailed Report

No Photo Available



636 Terrace Drive East St. Louis Illinois

Damage Date:

Assessment Date: 9/6/2022

Percent Damaged:

Subdivision / Community	Structure Address	Mailing Address	Cus
Subdivision:	Structure Owner First Name:		Cus
		Check if same as Structure Address.	
Parcel Number:	Structure Owner Last Name:	Mailing Owner First Name:	Cus
Lot Number:	Street Number:	Mailing Owner Last Name:	Cus
	636		
Elevation of Lowest Floor:	Street Name:	Mailing Street Number:	
	Terrace		
Datum:	Street Suffix:	Mailing Street Name:	
	Drive		
NFIP Community ID:	City:	Mailing Street Suffix:	
170626	East St. Louis	Make Selection	
NFIP Community Name:	State:	Mailing City:	
East St. Louis	Illinois		
Latitude:	County/Parish:	Mailing State:	
	St Clair ,	Make Selection	
Longitude:	Zip Code:	Mailing County/Parish:	

Residential Assessment

Be sure to SAVE assessment record before generating a report.

Print Summary Report Print Detailed Report

Check

No Photo Available



Pamela Perry

636 Terrace Drive East St. Louis Illinois

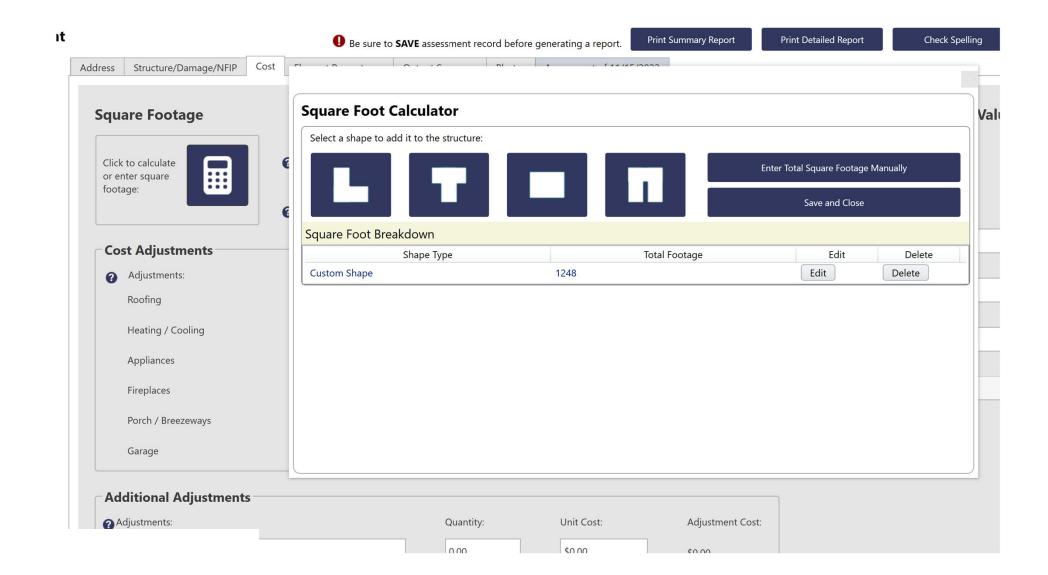
Damage Date: 7/26/2022 10:07 PM

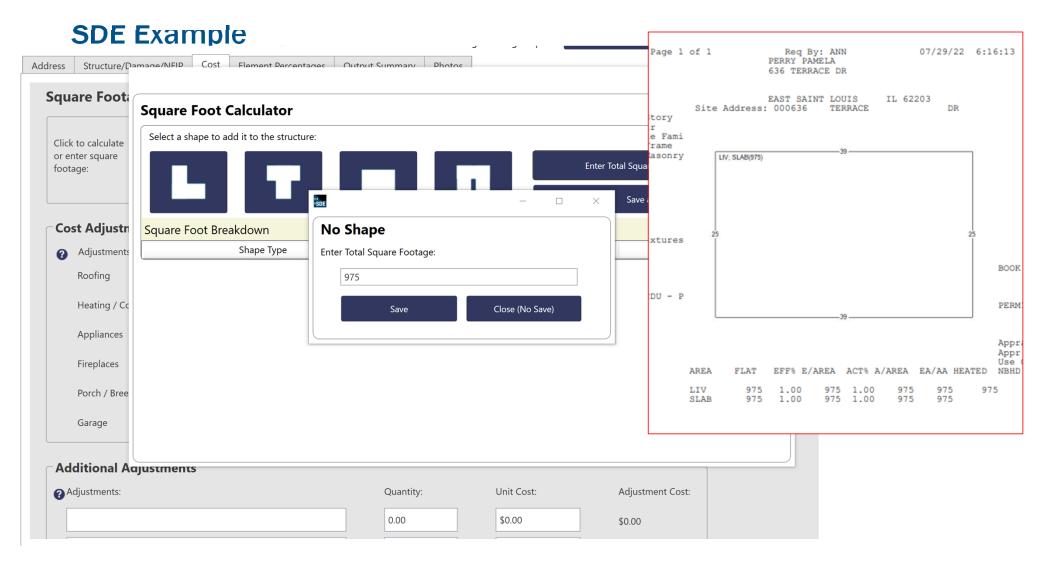
Assessment Date: 8/8/2022

Percent Damaged:

%

Structure Type:		Inspector Name:		NFIP Community ID:
Residential		IDNR KP		170626
Story:		Inspector Phone:		FIRM Panel Number:
One Story (Standard)	-		#	180
Residence Type:		Assessment Date:		Suffix:
Single Family Residence	~	8/8/2022	-	Make Selection
Foundation:		Date Damage Occurred:	Element	Description
Slab - on - Grade	-	7/26/2022	9. Plumbing	Incoming water service (municipal water supply or well service) Plumbing fixtures
Superstructure:		Cause of Damage:		Water heater Water distribution system
Stud-framed (Standard)	~	Flood	10. Electrical	Wastewater collection and removal system Electrical wiring systems (junction boxes, circuit breaker panels,
Roof Covering: Shingles - Asphalt, Wood (Standard)	Ţ	Damage Undetermined Make Selection	10. Electrical	Electrical wining systems (unrolled boxes, circuit bleaker panels, distribution wiring, outlets, switches, receptacles) Lighting Ceiling and exhaust fans Electric baseboard heaters
Exterior Finish:		Duration of Flood:	11. Appliances	All built-in, permanent appliances in the structure
Siding or Stucco (Standard)	•	4.00 Da	12. HVAC	 The system with which conditioned air is distributed throughout the structure; a typical system in residential structures involves a forced-air heating system with duct work
HVAC System.		Est. Depth of Flood Above Gr		Exterior air conditioning units
Heating and/or Cooling	-	3.00		Heat pumps Furnaces
Year of Construction:		Est. Depth of Flood Above Lowe	est Floor:	
1970		2.50		





SDE Example

Residential Assessment

No Photo Available



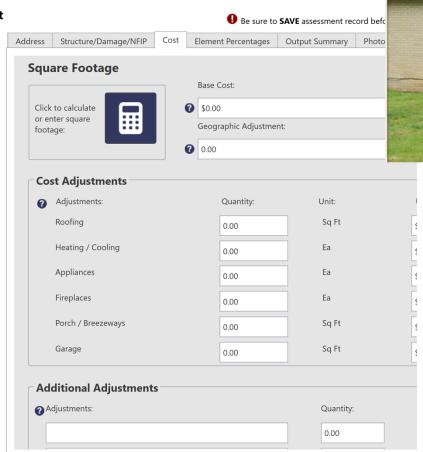
Pamela Perry

636 Terrace Drive East St. Louis Illinois

Damage Date: 7/26/2022 10:07 PM

Assessment Date: 8/8/2022

Percent Damaged:





Economy Home has no masonry option

Economy - Wood Siding 800 - \$143.90

975 - \$133.80

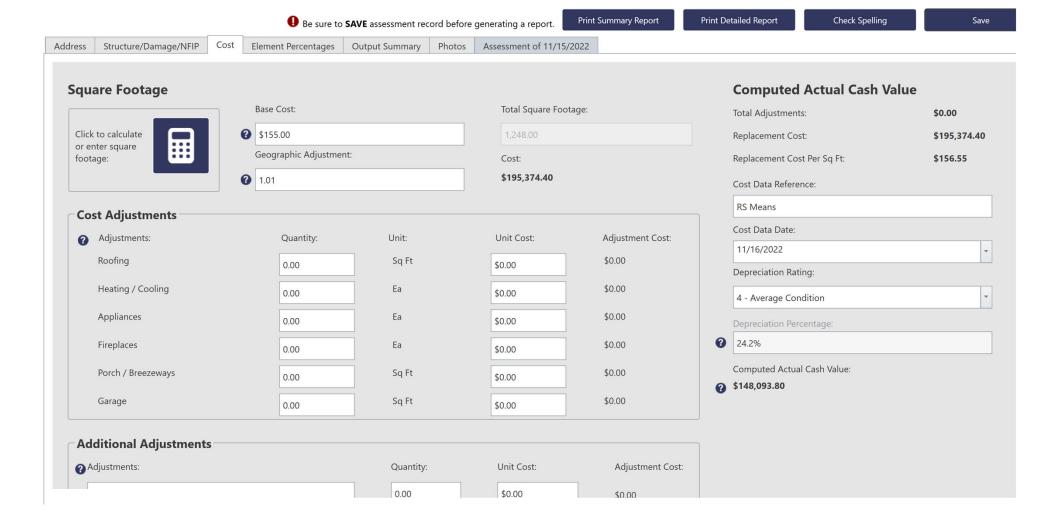
1000 - \$132.35

Economy – Brick veneer 800- \$149.45

975 - \$138.9

1000-\$137.40

(.75x133.8)+(.25x138.9)=\$135



ILLINOIS DAMAGE ASSESSMENT CHEAT SHEET

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	Super- structure	Exterior Finish	Interior Finish	Doors and Windows	Cabinets and Counters	Flooring	Plumbing	Electrical	Built in Appliances	HVAC
FLOOD DEPTH										
1 – 3 Inches	10	0	0	О	0	100	0	0	0	0
0.5 feet	10	5	5	10	20	100	0	0	0	0
1 foot	10	10	10	15	50	100	20	0	50	80
2 foot	10	30	30	40	50	100	30	20	100	80
3 foot	25	40	40	40	50	100	30	30	100	80
4 foot	25	50	50	75	70	100	30	60	100	80
>5 foot	50	50	100	100	100	100	50	80	100	80
Two	*	*	*	46		*	** **	(e-se		
story =										

For two story buildings the percentage for each building element is typically reduced as follows:

* = Reduce by 40 - 50% for two story home

** = Reduce by 25% for two story home

For split-level buildings use your best judgement for any adjustments to the damage percentages

Foundation

Basement or crawlspace:

10% minor clean up, re-seal, paint, etc.

50% if cracked bowed or fractured on one or more walls

100% if structural damage such as blow out or caved in walls

Slab on Grade

10% damage unless the foundation is undermined
30% if foundation is undermined

75% if foundation is broken or bowed or uplift

Residential Assessment

Be sure to **SAVE** assessment record before generating a report.

Output Summary

Element Percentages

Print Summary Report

Print Detailed Report Check Spelli

No Photo Available



Pamela Perry

East St. Louis Illinois

Damage Date:

7/26/2022 10:07 PM

Assessment Date:

8/8/2022

Percent Damaged:

45.6 %

Element Percentages

first floor

Structure/Damage/NFIP

Address

0	Element:	Percent Damaged:	Element Percentage:	Element Cost:	Damage Values:
	Foundation:	0.0%	8 %	\$10,635.30	\$0.00
	Superstructure:	0.0%	15.9 %	\$21,137.66	\$0.00
	Roof Covering:	0.0%	4.3 %	\$5,716.47	\$0.00
	Exterior Finish:	30.0%	7 %	\$9,305.89	\$2,791.77
	Doors and Windows:	40.0%	15.8 %	\$21,004.72	\$8,401.89
	Cabinets and Countertops:	50.0%	4.5 %	\$5,982.36	\$2,991.18
	Floor Finish:	100.0%	7.9 %	\$10,502.36	\$10,502.36
	Plumbing:	20.0%	8.6 %	\$11,432.95	\$2,286.59
	Electrical:	20.0%	4.9 %	\$6,514.12	\$1,302.82
	Appliances:	50.0%	4.2 %	\$5,583.53	\$2,791.77
	Interior Finish:	50.0%	13.2 %	\$17,548.25	\$8,774.12
	HVAC:	80.0%	5.7 %	\$7,577.65	\$6,062.12
				Replacement Cost:	Computed Damages:
	Estimated 2 fe	et over		\$132,941.25	\$45,904.61

Residential Assessment

Be sure to **SAVE** assessment record before generating a report.

Output Summary Photos

Element Percentages

Cost

Structure/Damage/NFIP

Address

Print Summary Report

Print Detailed Re

No Photo Available



Ittie Thompson

East St. Louis Illinois

Damage Date: 7/28/2022 12:27 PM

Assessment Date: 8/8/2022

Percent Damaged:

100.0 %

Element:	Percent Damaged:	Element Percentage:	Element Cost:	Damage Value
Foundation:	0.0%	9 %	\$12,030.26	\$0.00
Superstructure:	0.0%	16.4 %	\$21,921.81	\$0.00
Roof Covering:	0.0%	4.3 %	\$5,747.79	\$0.00
Exterior Finish:	5.0%	6.9 %	\$9,223.20	\$461.16
Doors and Windows:	10.0%	15.5 %	\$20,718.79	\$2,071.88
Cabinets and Countertops:	20.0%	4.4 %	\$5,881.46	\$1,176.29
Floor Finish:	100.0%	7.7 %	\$10,292.56	\$10,292.56
Plumbing:	0.0%	8.4 %	\$11,228.25	\$0.00
Electrical:	0.0%	4.8 %	\$6,416.14	\$0.00
Appliances:	0.0%	4.1 %	\$5,480.45	\$0.00
Interior Finish:	5.0%	13 %	\$17,377.05	\$868.85
HVAC:	0.0%	5.5 %	\$7,351.83	\$0.00
			Replacement Cost:	Computed Damage
Estimated 0.5 fe	et over		\$133,669.60	\$14,870.74

SDE Example

No Photo Available



Pamela Perry

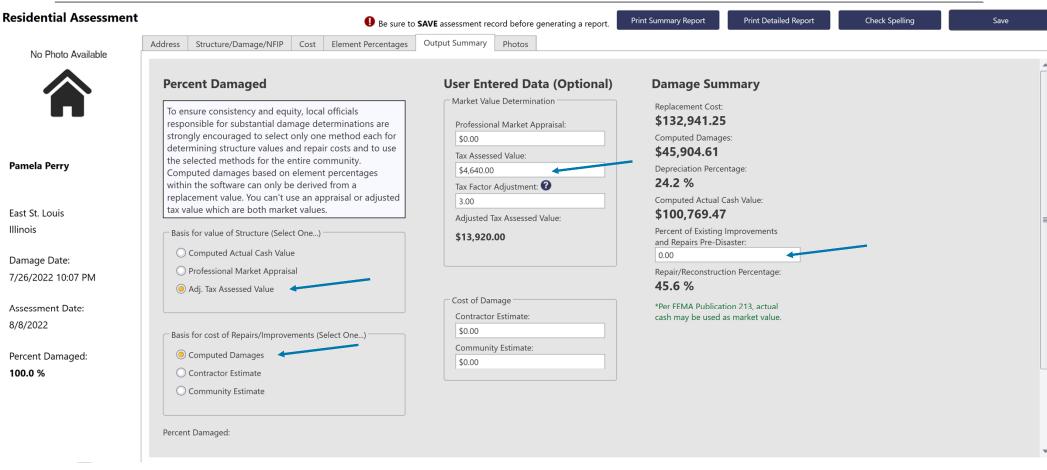
East St. Louis Illinois

Damage Date: 7/26/2022 10:07 PM

Assessment Date: 8/8/2022

Percent Damaged:

100.0 %



SDE Example

Owner's Name

Street Address

City East St. Louis
County/Parish St Clair
State Illinois
Zip 62203
Phone

No Photo Available



Structure Information

Year of Construction 1970

Residence Type Single Family Residence

Quality Budget

Damage Information

Date of 08/08/2022 Date of Damage 07/26/2022 Assessment

Assessment Cause of Damage Flood
Inspector Name IDNR KP Duration of Flood 4 Days

Inspector Phone Est. Depth of Flood 2.50 Above Lowest Floor

Residence Information

Home is 75% Frame and 25% masonry. Adjustment will be made on cost per square foot

NFIP Information

Firm Panel #	Suffix	Date of FIRM Panel	Firm Zone	BFE	Regulatory Floodway
180	D	11/05/2003	АН	718.00	No

Percent Damaged

Basis for Value of StructurePercent DamagedBasis for Cost of Repairs\$13,920.00100.0 %\$45,904.61Adj. Tax Assessed ValueSubstantially DamagedComputed Damages

Damage Summary

Computed Damages \$45,904.61

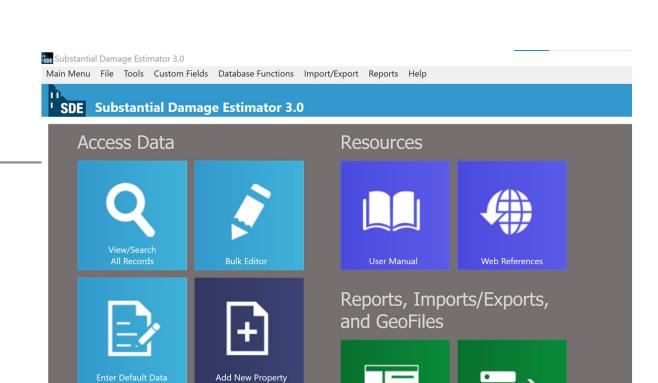
Replacement Cost \$132,941.25

Depreciation % 24.2 % Disaster

Computed Actual Cash Value* \$100,769.47

Repair/Reconstruction % 45.6 %

SDE Example - Reports











Add New Residential

Assessment





Add New

Non-Residential

Assessment



Saved Enterprise

Import Mappings

View Reports

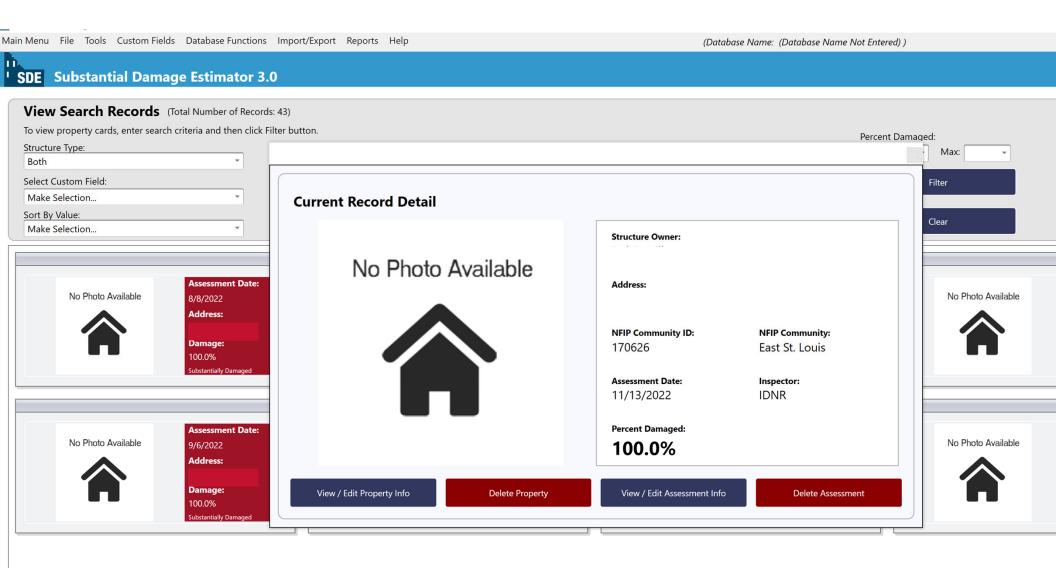
Import/Export

Functions

Generate GeoFile

SDE Example - Report

SDE Substantial Damage Estimator 3.0 View Search Records (Total Number of Records: 43) To view property cards, enter search criteria and then click Filter button. Percent Damaged: Structure Type: Assessment Date: Max: From: Both Select Custom Field: Select Field: Search For: Filter Make Selection... View All Records Sort By Value: Sort By Order: Properties Only: Clear (shows only properties without assessments) Make Selection... Asc. O Desc. No Photo Available No Photo Available No Photo Available No Photo Available 8/8/2022 8/8/2022 11/13/2022 11/13/2022 Address: Address: Address: Address: 100.0% 100.0% 100.0% 100.0% Assessment Date: **Assessment Date: Assessment Date: Assessment Date:** No Photo Available No Photo Available No Photo Available No Photo Available 9/6/2022 11/13/2022 Address: Address: Address: Address: Damage: Damage: Damage: Damage: 100.0% 100.0% 100.0% 100.0%





Main Menu File Tools Custom Fields Database Functions Import/Export Reports Help

Address

Structure/Damage/NFIP

Basis for cost of Repairs/Improvements (Select One...)

Computed Damages

Contractor Estimate
Community Estimate

' SDE Substantial Damage Estimator 3.0

Residential Assessment

① Be sure to **SAVE** assessment record before generating a report.

Element Percentages

Cost

Output Summary

\$0.00

\$0.00

Community Estimate:

Print Summary Report

Photos

Print Detailed Report

(Database Name: (Database Name Not Entered))

Check Spelling

No Photo Available



Delvin Hill

East St. Louis Illinois

Damage Date:

11/13/2022 9:54 PM

Assessment Date:

11/13/2022

Percent Damaged:

100.0 %

	Market Value Determination
responsible for substantial damage determinations are strongly encouraged to select only one method each for determining structure values and repair costs and to use the selected methods for the entire community. Computed damages based on element percentages within the software can only be derived from a replacement value. You can't use an appraisal or adjusted tax value which are both market values.	Professional Market Appraisal: \$0.00 Tax Assessed Value: \$4,592.00 Tax Factor Adjustment: 3
Basis for value of Structure (Select One) Computed Actual Cash Value Professional Market Appraisal Adj. Tax Assessed Value	Adjusted Tax Assessed Value: \$13,776.00

Damage Summary

Replacement Cost:

\$119,197.17

Computed Damages:

\$15,227.44

Depreciation Percentage:

38.8 %

Computed Actual Cash Value:

\$72,948.67

Percent of Existing Improvements and Repairs Pre-Disaster:

0.00

Repair/Reconstruction Percentage:

20.9 %

*Per FEMA Publication 213, actual cash may be used as market value.

Substantial Damage Estimator

 Owner's Name
 Street Address

 City
 East St. Louis

 County/Parish
 St Clair

 State
 Illinois

 Zip
 62203

 Phone
 62003

No Photo Available



Structure Information

Year of Construction 1951

Residence Type Single Family Residence

Quality Budge

Damage Information

 Date of Assessment
 11/13/2022
 Date of Damage Plood
 11/13/2022
 Residence Information

 Inspector Name Inspector Phone
 IDNR
 Duration of Flood Oscillatory
 3 Days

 Est. Depth of Flood Above Lowest Floor
 0.50

NFIP Information

Firm Panel #	Suffix	Date of FIRMPanel	Firm Zone	BFE	Regulatory Floodway	
180	D	11/05/2003	AH	418.00	No	

Percent Damaged

Basis for Value of Structure	Percent Damaged	Basis for Cost of Repairs
\$13,776.00	100.0 %	\$15,227.44
Adj. Tax Assessed Value	Substantially Damaged	Computed Damages

Damage Summary

Replacement Cost \$119,197.17 Percent of Existing Improvements and Repairs PreDisaster

Computed Actual Cash Value* \$72,948.67 Repair/Reconstruction % 19.8 %

Other Depreciation

* Per FEMA Publication 213, Actual Cash Value may be used as Market Value.

Optional User Entered Data

Professional Market Appraisal Tax Assessed Value	\$0.00 \$4,592.00	Contractor Estimate \$0.00
Factor Adjustment	3	Community Estimate
Adjusted Tax Assessed Value	\$13,776.00	\$0.00

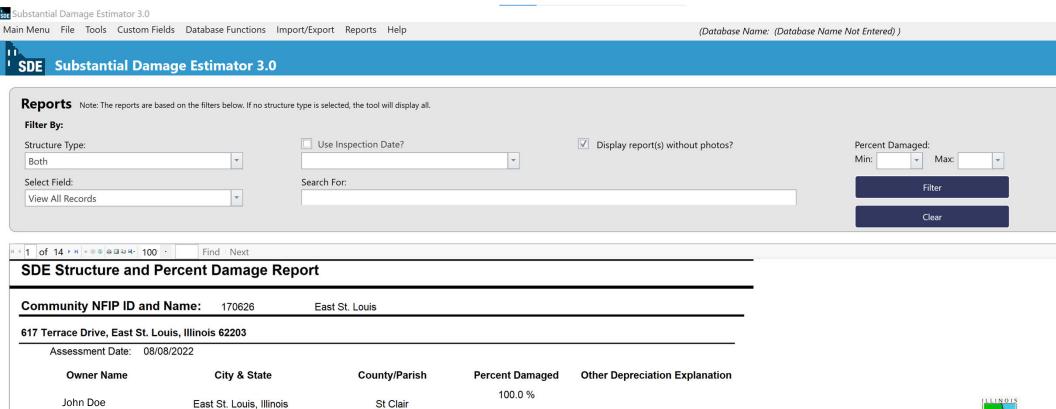
Authorized Local Official : ______ Authorized Local Official : ______ Printed Name

Wednesday, November 16, 2022 Page 1 of 1

Firm Panel #	Suffix	Date of FIRMPanel	Firm Zone	BFE	Regulatory Floodwa	ıv
180	D	11/05/2003	АН	418.00	No	•
Percent Damaged						
Basis for Value of St	tructure	Perc	ent Damaged		Basis for Cost of Repairs	
\$13,776.00			100.0 %		\$15,227.44	
Adj. Tax Assessed	Value	Substa	ntially Damaged		Computed Damages	
Damage Summary						
			Computed Dama	ages	\$15,227.44	
Replacement Cost		\$119,197.17	Percent of Existi	ng Improvem	ents and Repairs Pre-	0.0 %
Depreciation %		38.8 %	Disaster		•	
Computed Actual Cash	Value*	\$72,948.67	Repair/Reconstr	uction %	19.8 %	
			Other Depreciation	on		
	* Pe	r FEMA Publication 213, Ac	tual Cash Value may	be used as	Market Value.	
Optional User Enter	ed Data					
Professional Market Ap	praisal	\$0.00		Cont	ractor Estimate	
Tax Assessed Value		\$4,592.00			\$0.00	
Factor Adjustment		3		Comn	nunity Estimate	
Adjusted Tax Assessed	l Value	\$13,776.00			\$0.00	
Authorized Local Offi	icial :		Authorized Lo	cal Official :		
		Signatur	e			Printed Name
Wednesday, November	16, 2022					Page 1 of 1

Summary Report – Attach to the Substantial Damage/ Damage Assessment Letter

SDE Example - Report



ELEMENT PERCENTAGE Tab

Note: The inspector needs only enter the **% Damaged** data here. The data in the Element **%**, Item Cost, and Damage Values columns will be populated based on the selected attributes once all the data are entered into the SDE tool.

Residence Type: ____ Single-Family (SF) House ___ Townhouse Manufactured House (MH)

<u>ltem</u>	% Damaged
Foundation (not required for MH)	
Superstructure	
Roof Covering	
Exterior Finish	
Interior Finish	
Doors and Windows	
Cabinets and Countertops	
Flood Finish	
Plumbing	
Electrical	
Appliances	
HVAC	
Skirting / Forms Piers (MH only)	

Skirting / Forms Piers (MH only)	
CDE QUITDUT CUMMADY T-L. O-4	
SDE OUTPUT SUMMARY Tab - Opt	ional User Ente
Professional Market Appraisal:	
•••	
Tax Assessed Value:	Tax
Adjusted Tax Assessed Value	ie:
Contractor's Estimate of Domasse	
Contractor's Estimate of Damage: _	
Community's Estimate of Damage:	
o annual or annual or	

	Superstructure (Wood Frame/Masonry)			0- 25%	25-50%	50-75%	Over 75%
		The wall support systems that extend from the foundation wall to the roof structure. Superstructures include the exterior wall sheathing panels, shear panels, or braced wall panels. This section also includes structural members that support the roof (rafters and trusses), but does not include the roof sheathing.	Markers	Water level does not rise to the level of the bottom of the first floor of the structure.	Water level rises just above first floor level.	Water level is up to 3 feet high on the first floor level.	Water is over 3 feet high on the first floor level of the house.
			Threshold Markers		Damage to the exterior walls is limited	Some damage to exterior walls.	Significant damage to exterior walls.
		Wood frame construction: Lightweight lumber or metal studs Interior wall framing (without sheathing) Typical exterior structural panel wall sheathing is plywood or		No damage to the roof framing.	Damage to the roof framing is limited.	Significant damage to sections of the roof framing.	Significant damage to the main portion or multiple sections of the roof framing.
	Description	hardboard Masonry construction: Load bearing walls using unreinforced masonry (URM) and reinforced block or brick Typical exterior covers are stucco, siding (aluminum, vinyl, or wood), and masonry veneer (Reinforced concrete construction should be categorized under masonry.)	Common Damage	Minor damage to portions of the wall structure. Wall studs and sheathing suffered minor damage by contact with debris or from floodwater pressures against the structure. Minor missing or damaged sections of the roof structure. No deformation or distortion of the structural frame is evident.	Some missing sections or open damage to portions of the wall structure. Wall studs and sheathing suffered some damage by contact with debris or from floodwater pressures against the structure. Some missing or damaged sections of the roof structure. No deformation or distortion of the structural frame is evident.	Missing sections or open damage to significant portions of the wall structure. Wall studs and sheathing damaged by contact, collision, or piercing with debris or from floodwater pressures against the structure. Significant missing or damaged sections of the roof structure. Some deformation or distortion of the structural frame is evident.	Missing exterior wall(s) or open damage to large portions of the wall structure. Wall studs and sheathing damaged by contact, collision, or piercing with debris or from floodwater pressures against the structure. Large missing or damaged sections of the roof structure. Significant deformation or distortion of the structural frame is evident.
-		Special Considerations for Coastal/High Velocity Floods		Coastal areas have higher wind conditions requiring additional exterior wall structural panels, shear walls, and braced wall panels. Damage to these wall structural systems would indicate a higher percent of damage, because they are already designed to resist higher wind conditions.			

SDE Residential Damage Inspection Worksheet

Notification of Property Owner

- Substantial Damage Determination Letters will need to delivered regardless of damage percentage
- What methods of delivering notices to homeowners?
 - Hand delivery
 - Registered mail
- Provides information on repair and recovery
- Keep record of date sent, this prevents the "I didn't get a SD letter" scenario

SAMPLE SUBSTANTIAL DAMAGE DETERMINATION LETTER - Cumulative Damage

DATE

OWNER'S MAILING ADDRESS CITY, ST. ZIP CODE

RE: Substantial Damage Determination - ADDRESS

Dear Owner,

Following the recent flooding on <u>(Insert date)</u>, a damage assessment was completed for the <u>home</u> at the property referenced above. This is part of our floodplain management responsibilities and is required for all structures in the regulatory floodplain to maintain the availability of federal flood insurance and disaster assistance in our community. The following information relates to the address referenced above:

 Community Number:
 170XXX

 Flood Zone:
 Zone AE

 Base Flood Elevation:
 417.5

 Estimated First Floor Elevation
 414.0

 Estimated Flood depth on First Floor
 3.5 feet

Fair Market Value of Structure: \$81,226 (based on the County Assessor's assessed value)

Flood Damage Estimate: April 2013 \$52,105

Percent Damaged: 64.2% (50% or more is Substantially Damaged)
Ordinance Requirement: Elevation, Demolition/Removal, or Relocation of Home

The home is determined to be <u>Substantially Damaged</u> due to flooding and the home must be brought into compliance with the (<u>insert name of community's floodplain regulations or section of code</u>) prior to fully repairing the damages or making other improvements. Compliance options for a residential structure are:

- Elevation of the home on posts or an enclosed storage area with flood openings
- Demolition of the home
- Relocation out of the floodplain

Minimal, temporary repairs may be permitted, and a Temporary Occupancy Certificate issued while full compliance is achieved. A Building Permit and a Temporary Occupancy Certificate must be issued before the home is reoccupied. Compliance must be completed within two years of receipt of this letter.

If the home will be elevated, Building Permits, inspections, and an Elevation Certificate will be required prior to the issuance of a final *Certificate of Occupancy*. Please contact this office as soon as possible to make an appointment with me to discuss your upcoming project.

If you have flood <u>insurance</u> ask your claims adjuster about filing an Increased Cost of Compliance Claim for financial assistance with cost of complying with this requirement.

If you have any questions, please <u>call</u> or email me at ______.

Illinois Flood Damage Assessment Packet 16 February 2023

Next Steps

You have completed your SD determinations, issued your SD determination letters and have worked through any appeals that may have come up. What's next?

- All work, repairs, and development in the SFHA MUST be permitted
- Follow through with your normal floodplain permitting process, keeping a close eye on any changes that might affect the SD Determination (Higher quality building materials, alteration from original construction plan)
 - Does your Community have a Cumulative Improvement/ damage requirement?
- Continue to monitor for unpermitted work while in the SFHA

Application #		Date	
TO THE ADMINISTRATC in a flood plain. The wo below and in attachment accordance with the requand with all other applicatiows.	rk to be performed s hereto. The unde irements of the City	, including flood protecti rsigned agrees that all s y of Dubuque Flood Plai	on works, is as describe such work shall be done in n Management Ordinanc
(Owner or Agent)	(Date)	(Builder)	(Date)
(Address)		(Address)	
Telephone #			
	iding Exca	vation Routine	
Filling Gra	ding Exca Substantial In	vation Routine nprovementNew	
Filling Gra Minor Improvement 3. Description of Develor 4. Premises: Area of Principal Use:	Substantial In	nprovementNew /acres Est	Construction
Filling Gramminor Improvement _ 3. Description of Develor 4. Premises: Area of Principal Use: Accessory Uses (Stor	sq. ftsq. ftsq. ftsq. ftsq. ft.	nprovementNew	Construction
Filling Gramming Gram	Substantial In ment Site:sq. ft. age, parking, etc.)_ to non-conforming u	/acres Est	Construction
Filling Gramming Gramminor Improvement _ 3. Description of Develor 4. Premises: Area of Principal Use: Accessory Uses (Stor 5. Addition/modification Assessed value of str	Substantial Incoment Substantial Incoment	/acres Est	Construction
Filling Grammore from the filling Grammore from the filling from	ding Exca Substantial In ment Site:sq. ft. age, parking, etc.)_ to non-conforming u ucture \$ a designated Floodu CERTIFICATION M VELOP, THAT THE	/acres	Construction

Next Steps – Temporary Occupancy Permits

- For buildings, especially homes, that have reached substantial damage level
- Allow minimal repairs for life safety so home can be occupied
- Allows time for mitigation –design of an elevation or a grant for acquisition
- Set timeline when Temporary Occupancy will expire (6 years for ICC but don't wait that long, can extend if delayed by a grant)
- State template available



TEMPLATE

- This is a template for your use. Please edit anything highlighted in red, inserting local details. The text may be changed to fit your community needs.
- This has been developed to assist with the enforcement of the substantial damage provisions of your floodplain regulations.
- Contact IDNR staff for a Word Version of this document.
- This allows for temporary occupancy, but COMPLIANCE IS STILL REQUIRED IF SUBSTANTIALLT DAMAGED.

DAMAGE REPAIRS to SUBSTANTIALLY DAMAGED HOME IN THE FLOODPLAIN and

TEMPORARY CERTIFICATE of OCCUPANCY APPLICATION

INSTRUCTIONS:

After a residential building in the mapped or regulated floodplain is substantially damaged the building must be mitigated. Mitigation means the residential building must be brought into compliance with the floodplain regulations either by being elevated, demolished, or moved out of the mapped floodplain. Some communities may also be working on a grant to acquire flooded homes. So, until the mitigation method is resolved, a building permit can be issued for minimal repairs to the building to allow the building to be occupied under a Temporary Certificate of Occupancy (TCO). The allowed minimal repairs are provided on page 3 of this application.

A building permit for the minimal repairs must be issued and the <u>Building Official</u> must complete an inspection to determine if the building or portions of the building can be occupied safely. A <u>building shall not be occupied</u>, or <u>furniture brought back into the building until the TCO has been issued</u>.

The Building Official shall set a time period during which the TCO is valid. This time period shall be of reasonable length to complete all the outstanding work practically and without undue hardship but should not extend beyond four years from the date of the substantial damage event.

beyond roar years from the date of the sa	botalitial dallidge events
Once work has been completed under the	building permit:
Complete the TCO application on particular completes the TCO application on the TCO ap	age 2 and submit to
• Call	to request a final inspection.
not been completed. Complete these corre Examples of life safety items include handr	items relate to life safety requirements or substantial completion have ections and/or outstanding work items and schedule a re-inspection. rails or guard rails not installed or shower mixing valve not calibrated to ntial completion items include toilet or kitchen sink not installed.
Call or email	if you have any questions.

TEMPORARY CERTIFICATE of OCCUPANCY APPLICATION DAMAGE REPAIRS to SUBSTANTIALLY DAMAGED HOME IN THE FLOODPLAIN

Jobsite Address:		
All Related Building Permit Numbers:		
Applicant Information Property		
Owner(s):	9- Y	<u> </u>
Mailing Address:		
Phone: Alt. Phone:		
E-Mail:		
Occupant Information (if different from Owner)	
Name(s):		
Mailing Address:		
Phone:Alt. Pho	one:	_
E-Mail:		
Describe area of occupancy if partial occupancy bathroom, and one first floor bedroom.)	y is being requested (Example kitc	hen, living room, basement,
As the owner of the above referenced property (home) before the final flood mitigation of the pursued, only the limited property repairs lister revoked, and the home must be vacated immeutilities may be disconnected. (Insert a referenand penalties for violations.)	building has been completed. If a d on page 3 may be completed. C diately, or the owner will be subje	a buyout of the property is being Otherwise, the TCO will be ect to citation and fines and the
Signature:	Date:	
Illinois Flood Damage Assessment Packet	20	February 2023

TEMPORARY OCCUPANCY PERMIT DAMAGE REPAIRS to SUBSTANTIALLY DAMAGED HOME

EXTERIOR REPAIRS

- Work necessary to provide a potable water supply this may include well decontamination if it's the only source of potable water.
- Securing broken windows and repair or replacement of functioning exterior and/ or interior door, as necessary.
- Taking temporary actions to weatherproof the home and prevent water intrusion; repairs could be temporary patches to roof or siding.
- · Repairing damaged front stairs or porches to allow safe entrance and exit.

INTERIOR REPAIRS

- Work necessary to provide essential electric power supply, HVAC, and hot water.
- Work necessary to restore natural gas supply if required for HVAC, hot water, and/or food preparation.
- Removal of disaster-related debris within the home to a curbside location to ensure safety in entering, assessing, and performing eligible work within the home.
- Removing flood-damaged water-absorbing flooring material including carpet, carpet padding, vinyl and other floor covering materials
- Minor interior and/or exterior work to provide safe access to the home and ensure a safe living environment
- Drywall and insulation replacement for the purpose of safely covering any exposed electrical work or to
 ensure the home is properly insulated.
- Work necessary to ensure one useable bathroom with vanity cabinet and countertop, sink and faucet, toilet (with tank), tub or shower, drywall around bathroom for privacy.
- Work necessary to ensure functional kitchen facilities with minimal base cabinets, countertops, sink and faucet to include minimal cooking and refrigeration appliances necessary to shelter in place (not to exceed \$500)
- Work necessary to ensure safe and adequate sleeping accommodations for all household members.
- Replacing/installing smoke and carbon monoxide detectors
- Items and work necessary to ensure safe shelter and accessibility for individuals with access and functional needs.

SAMPLE RIGHT OF ENTRY PERMISSION FORM - REVIEW BY COMMUNITY'S ATTORNEY REQUIRED

Property Owner's Right of Entry Certification and Release

A floodplain permit is required for all construction activity in the Special Flood Hazard Area or that area inundated by the base flood, as designated on the Flood Insurance Rate Maps (FIRMs). These SFHAs are designated as A, AE, A1-A30, AH, or AO Zones on the FIRMs. Construction activity includes repairs due to damages caused by floods and fires or additions/improvements to residential and non-residential structures.

I, the undersigned, being the owner of the land and all buildings located at <u>(insert address)</u>, do hereby grant the <u>(insert community's name)</u> permission to inspect the property to determine the amount of damage and to comply with the NFIP Regulations for Substantial Damage Determinations according to Title 44 CFR, Section 60.3.

I, the undersigned, do hereby grant (insert community's name), its agents, servants, employees, and assigns, for a period of 60 days or the completion of the substantial damage assessment, from the date of this document, permission to enter upon the above identified property to accomplish substantial damage/improvement determinations.

In consideration of the substantial damage assessment conferred on me by the (<u>insert community's name</u>), in said substantial damage/improvement determinations, I, the undersigned, do hereby release and forever discharge the (<u>insert community's name</u>) its agents, servants, employees and assigns from any and all claims, demands, or actions for damages for any and all personal injuries, or loss or damage to property sustained in or growing out of said inspections, and from complications arising therefrom.

I also hereby agree to comply with (Community's Ordinance or reference to Section of Code).

It is understood that the above-mentioned substantial damage assessment and the terms of the Release are fully understood and voluntarily accepted.











Marilyn Sucoe, P.E., CFM

Illinois Dept. of Natural Resources/Office of Water Resources <u>Marilyn.Sucoe@Illinois.gov</u>
847-608-3181

Dawn Cosentino, P.E., CFM

Illinois State Water Survey IAFSM Floodplain Management Committee Chair RAFT Contact

dawncos@illinois.edu



