

Welcome to GIS DAY 2023

Using GIS technology to explore, innovate, and
transform Santa Clara County

November 1, 2023





Role of GIS in Disaster Recovery and Damage Assessment

Dana Reed

Director

Santa Clara County Office of Emergency Management

Role of GIS in Disaster Recovery and Damage Assessment

- Damage Assessment Overview
 - Initial Damage Estimate
 - Preliminary Damage Assessment
- Technology Options
 - GIS Mapping (Survey 123)
 - Self-Reporting Applications
- Challenges Associated with Recovery and Damage Assessment
 - Windshield Survey
 - Managing Public Expectations vs. Programmatic Criteria
 - Familiarity with technology options and integration
- Best Practices
 - Use of photos in self-reported damage estimate
 - Privacy statement
 - Unincorporated County considerations
 - Use of Social Media and Press releases

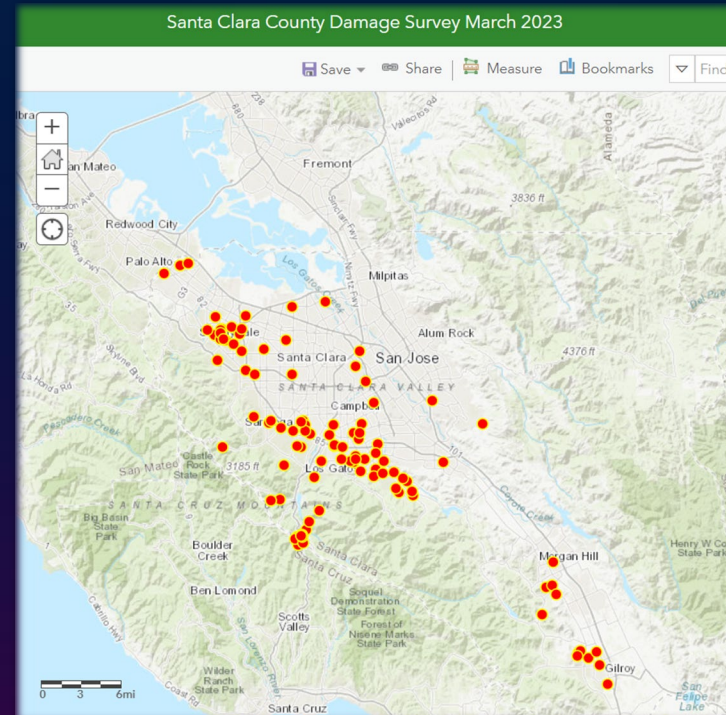
Damage Assessment Overview

- Initial Damage Estimate (IDE)
 - An accounting of estimated public and private physical damage and financial losses following a disaster
 - Thresholds/Per Capita Indicator for Public Assistance
 - 2023: $\$4.44 * 1936,274$ (2020 population census data) $\sim \$8.6$ M
 - 2024: $\$4.60 * 1936,274$ (2020 population census data) $\sim \$8.9$ M
- Joint Preliminary Damage Assessment (PDA)
 - Public Infrastructure
 - Residential Properties

SHEET _____ OF _____ SHEETS		
FEDERAL EMERGENCY MANAGEMENT AGENCY PRELIMINARY DAMAGE ASSESSMENT SITE ESTIMATE		DATE
PART I — APPLICANT INFORMATION		
COUNTY	NAME OF APPLICANT	PHONE NO.
NAME OF LOCAL CONTACT		
PART II — SITE INFORMATION		
KEY FOR DAMAGE CATEGORY <i>(Use appropriate letters in the "category" blocks below)</i>		
a. DEBRIS REMOVAL	d. WATER CONTROL FACILITIES	g. OTHER <i>(Parks, Recreational Facilities, etc.)</i>
b. PROTECTIVE MEASURES	e. PUBLIC BUILDINGS	
c. ROADS AND BRIDGES	f. PUBLIC UTILITIES	
SITE NO.	CATE-GORY	LOCATION <i>(Use map location, address, etc.)</i>
DESCRIPTION OF DAMAGE		
IMPACT:		% COMPLETE
		COST ESTIMATE

Use of Technology

- GIS Mapping (Survey 123)
 - Hazard mapping, damage assessment, vulnerability analysis, and recovery planning
 - Use of Survey 123 for self-reported damages in the 2023 storm season
 - Co-created by County Office of Emergency Management and County GIS



Santa Clara County Damage Survey

The purpose of this survey is to collect estimated costs to calculate total damages throughout the Santa Clara County.

Please complete and submit this form by Thursday, February 23rd, 2023.

This is not the same as a report for insurance and does not guarantee federal recovery assistance. All information will be sent directly to the Santa Clara County for review and tracking. This DOES NOT satisfy a report for insurance or immediate response purposes.

Please report any issues with the survey to gis@isd.sccgov.org

You can also self-report property damages by calling the County's Recovery hotline at (408) 808-7778

Reporting Date*

1/10/2023

Incident Date*

(Date damage occurred)

1/4/2023

Select Incident:

2022-23 Winter Storms

Survey 123 Results

- 150+ survey submissions from the January storms
- 340+ survey submissions from the March storms

Santa Clara County Damage Survey 2023



Santa Clara County Damage Survey 2023



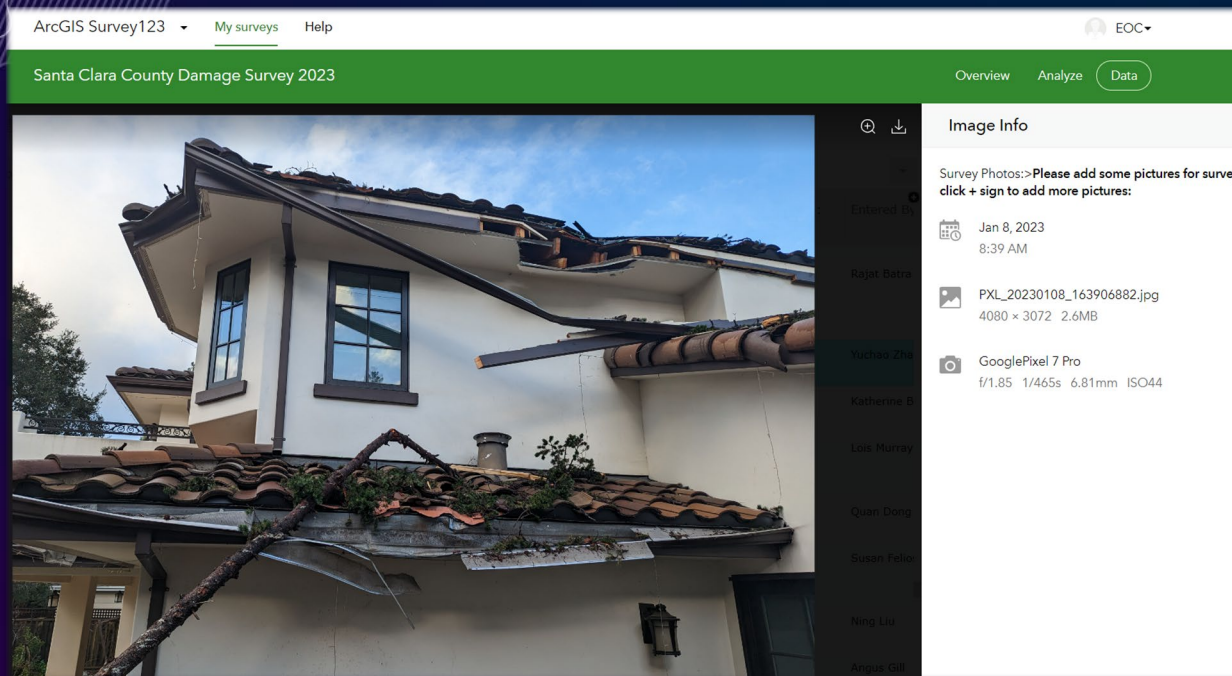
Challenges Associated with Recovery and Damage Assessment

- Windshield Survey
 - Determine size and scope
 - Immediate needs
 - Health, safety, and security
- Managing Public Expectations vs. Programmatic Criteria
 - County's role vs. CalOES and FEMA
 - Timelines for receiving federal assistance
 - Understanding and meeting ambiguous thresholds
- Familiarity with technology options and integration

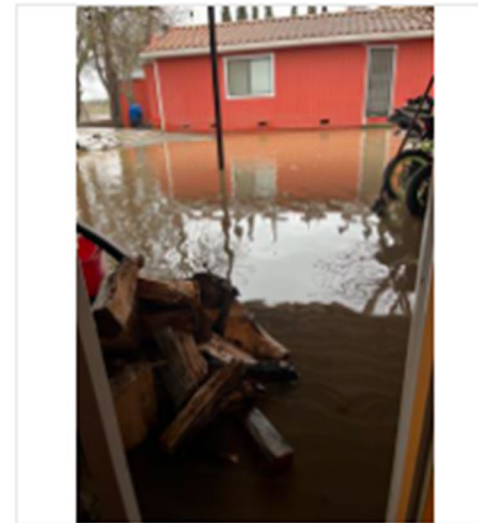


Lessons Learned and Best Practices

- Use of photos in self-reported damage estimate



- Please add some pictures for survey , click + sign to add more pictures:



46596A73-14DE-426E...

Lessons Learned and Best Practices

- Privacy statement
 - Include sharing personal information with other governmental and non-governmental entities for long-term recovery
- Unincorporated County considerations
- Use of Social Media and Press releases
- FEMA private property damage estimate survey released in July 2023

Santa Clara County Damage Survey

The purpose of this survey is to collect estimated costs to calculate total damages throughout the Santa Clara County.

Please complete and submit this form by Thursday, February 23rd, 2023.

This is not the same as a report for insurance and does not guarantee federal recovery assistance. All information will be sent directly to the Santa Clara County for review and tracking. This DOES NOT satisfy a report for insurance or immediate response purposes.

Questions

Dana Reed

Director

Santa Clara County Office of Emergency Management

dana.reed@oem.sccgov.org

Parastou Najaf

Senior Emergency Manager – Mitigation/Recovery

parastou.najaf@oem.sccgov.org

Questions	Answers
<p>Are there any EOC dashboards? Here at VTA, we are thinking of creating our own dashboard for emergency, and would like to learn from others.</p>	<p>We don't have a dashboard but use a series of situational awareness tools such as WebEOC. During COVID10, the Public Health Department created a dashboard. County OEM is not opposed to that idea. We are currently looking into a tool that gives us more common operating picture to further refine our situational awareness tool. That ties with the damage assessment effort. This drives the objectives of EOC and drives the decisions made by the management for response, recovery, and motivation. I don't have a specific dashboard, but happy to chat with you offline about it.</p>
<p>How do we access the Survey123 form?</p>	<p>Once Survey123 form is ready, EOC teamwork with the Public Information Officer. They push out to social media, bay area public organizations, non-profit organizations. We also link with Board of Supervisors and each Supervisors will connect with their constituents. We try our best to push out as wide as possible. However, if you see any gaps, we are definitely open to your suggestions. January was our first deployment of tool, and we learned some lessons and improved the March deployment. We would like to continue to improve our operations.</p>

Q & A