

Property Damage by Parcel Project Overview: Camp Fire, Butte County, CA

Project Overview

In order to track and measure fire related residential damage from the recent Camp Fire in Butte County, CA, RS Metrics will collect and analyze high resolution satellite imagery after the fire was fully contained on Nov 25, 2018.

Base case metrics will be square footage and assessed land and structure value of each home prior to it being destroyed – this data will be sourced from the publicly available Butte County, CA parcel and tax roll data. There are approximately 18,265 parcels within the Camp Fire final perimeter for analysis.

Methodology will include:

- 1. Determine the fire perimeter areas for the Campfire fire in Butte County, CA, including specific municipalities or any residential properties that intersect a buffer of the fire boundaries.
- 2. Acquire imagery as near as possible on or after Nov 25, 2018, including satellite imagery and possible airplane/aerial imagery available from the State of California or Butte County, CA.
- 3. Obtain and purchase if necessary, parcel and tax roll data from Butte County, CA with square footage, assessed value, address, and other information as needed.
- 4. Determine the number of parcels required for analysis, and capture the following information for each parcel:
 - 1. Level of destruction for each property from the fire, coded as destroyed, partial damage or undamaged.
 - 2. Square footage of the parcel/property/structure.
 - 3. Assessed value of the land/parcel/property/structure.
 - 4. Street Address.
 - 5. Other information where possible

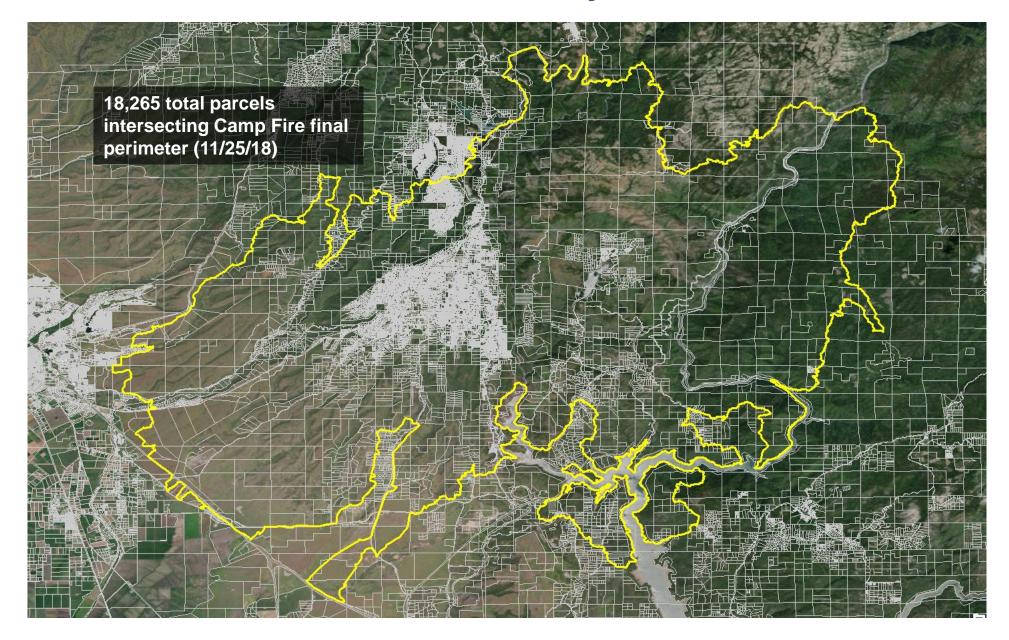
Example of Proposed Final Deliverable

Butte County Publicly Available Parcel and Tax Roll Data Joined with RS Metrics Damage Assessment

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	axYear	Asmt	FeeParcel	BarCodeZip	Situs1	Situs2	ParcelDescription	LandValue	StructureValue	DamageStatus	SquareFeet	FixturesValue	GrowingVal	
2 20	018	0010110040	00101100400		492 G ST	BIGGS CA	492 G ST	51,000	25,500	Undamaged	1,244	-	-	
3 20	018	0010110050	00101100500		496 G ST	BIGGS CA	496 G ST	27,595	88,310	Undamaged	2,101	-	-	
4 20	018	0010110070	00101100700		488 G ST	BIGGS CA	488 G ST	31,233	48,725	Destroyed	1,450	-	-	
5 20	018	0010110140	00101101400		484 G ST	BIGGS CA	484 G ST	8,616	536	Destroyed	66	-	-	
6 20	018	0010110150	00101101500		487 H ST	BIGGS CA	487 H ST	61,200	120,360	Destroyed	2,245	-	-	
7 20	018	0010110170	00101101700		485 H ST	BIGGS CA	485 H ST	20,019	69,181	Partial Damage	1,632	-	_	
8 20	018	0010110180	00101101800		3140 7TH ST	BIGGS CA	3140 7TH ST	18,734	44,520	Destroyed	1,359	-	-	
			00101101900		3146 7TH ST	BIGGS CA	3146 7TH ST	15,599	8,585	Undamaged	250	-	-	
10 20			00101102000		481 H ST	BIGGS CA	481 H ST	27,446	106,890	Destroyed	2,013	-	-	
11 20	018	0010110210	00101102100		3143 6TH ST	BIGGS CA	H ST & 6TH ST	27,446	60,047	Destroyed	1,545	-	-	
12]		
13										l N				
14				Ke	y fields from	Butte Cou	nty Assessor	De	etermined by	RS Metrics u	ising satellite	imagery an	d	
15					rcel and Tax		,		•	le data sourc	•	• •		
16				14		rton data.		P	ionory availab					
17														
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19														
RS Metrics will review available parcel and ta								nd tax roll o	data fields w	vith custom	er			
21														
22				upon acquisition from Butte County to determine the exact fields that should										
23				be included in the final deliverable. RS Metrics can include/exclude any fields										
24					as necessary. Deliverable will be in XLSX and/or CSV format.									
25					as necessary. Deliverable will be in ALOA and/or COV format.									
26														
27 28														
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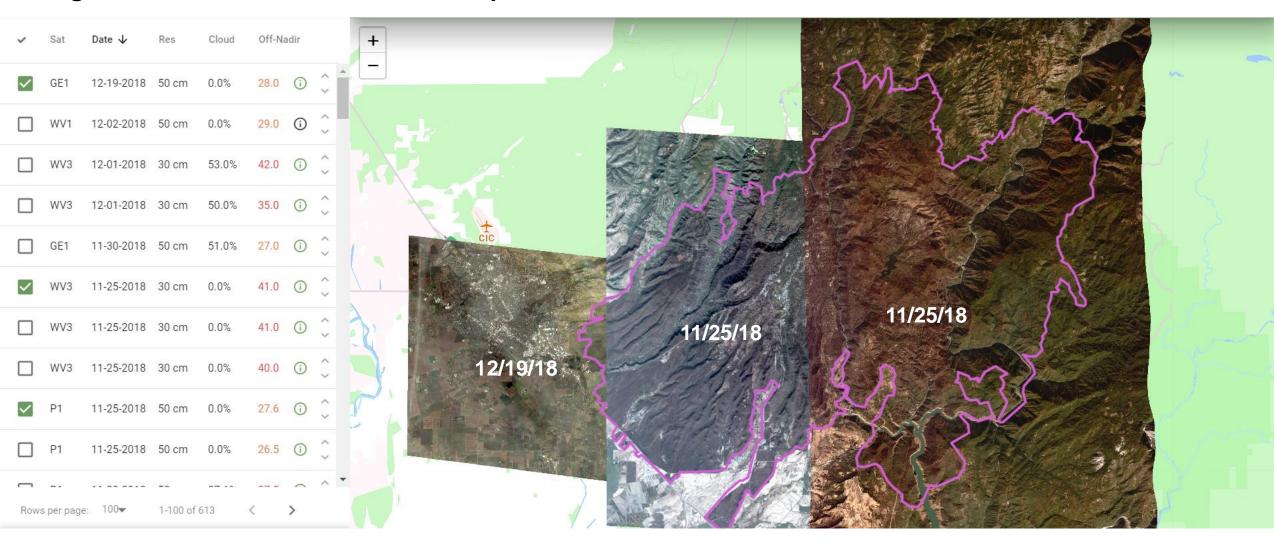
Data Sources

Camp Fire Perimeter with Butte County Parcels

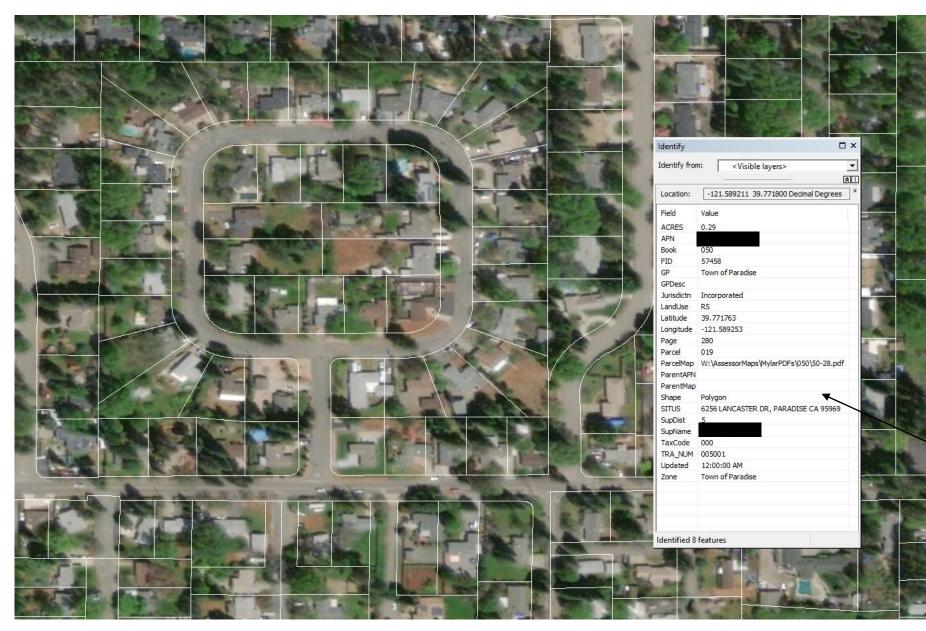


Camp Fire Post-Event Satellite Imagery

Source data are three very high resolution (50cm) satellite images captured on 11/25/18 and 12/19/18 by DigitalGlobe and Airbus Defence and Space



Zoom of Parcels with Pre-Event Imagery and Example Attributes

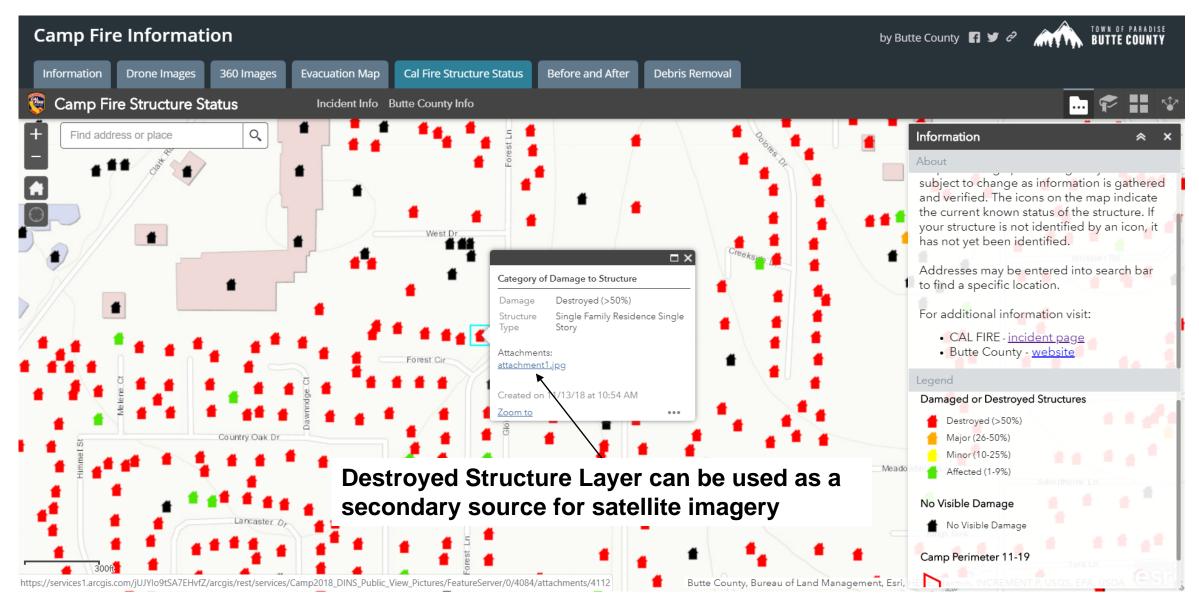


RS Metrics proposed workflow will view every parcel individually and record damage based on satellite imagery and secondary data sources described in the following slides.

Assessed value and physical structure data (square footage) will come from Butte County tax rolls. Data not shown because it hasn't been purchased yet.

Butte County GIS: Camp Fire Public Information Website

http://buttecountygis.maps.arcgis.com/apps/MapSeries/index.html?appid=af7e5bb3960a48c096ed910c640a30b3

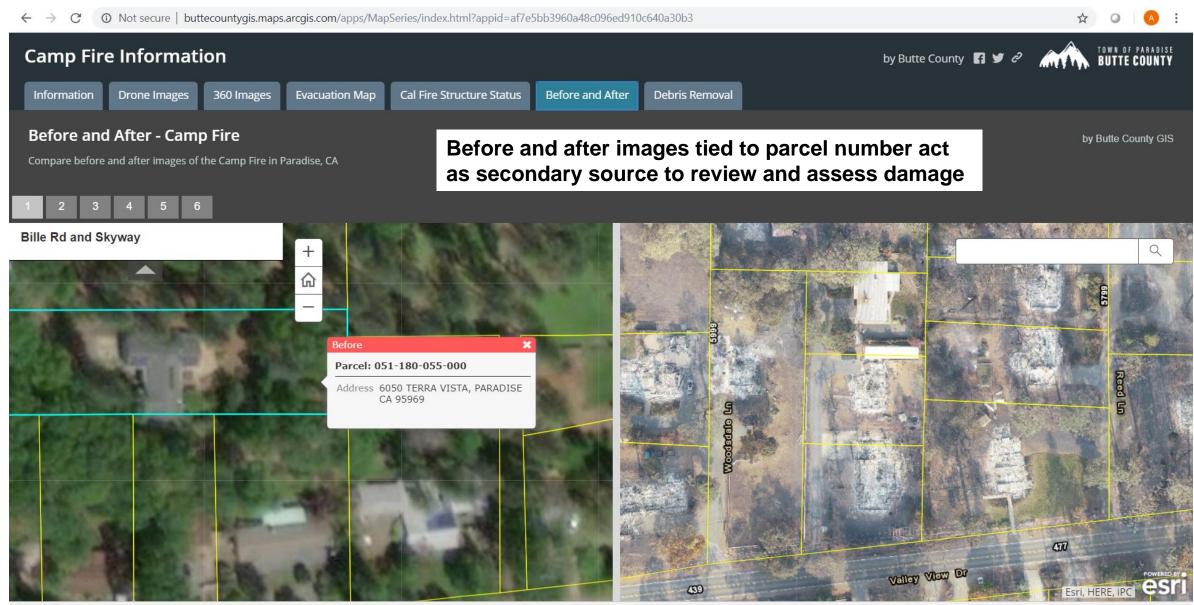


Butte County GIS: Camp Fire Public Information Website

← → C 🔒 https://services1.arcgis.com/jUJYIo9tSA7EHvfZ/arcgis/rest/services/Camp2018_DINS_Public_View_Pictures/FeatureServer/0/4084/attachments/4112



Butte County GIS: Camp Fire Public Information Website



Gesri A Story Map