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## Memorandum

**Date:** March 14, 2022  
**To:** Jason Puffett and Dorie Dalton, Genesee Fire Rescue  
**From:** Carolyn Wagner, Colleen Donovan, Chris Barth, Hannah Brenkert-Smith, Julia Goolsby, WiRē  
**Subject:** Follow-up analysis of GFR WiRē data

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In this memorandum we present the results of some follow-up analyses at the request of Genesee Fire Rescue.

**Section 1.1** presents select results by Community Wildfire Protection Plan (CWPP) community and for the entire study area. The communities are defined as follows:

1. Genesee Estates & Chimney Creek
2. Genesee Foundation + Ridge Townhomes and The Preserve (all)
3. Genesee Village

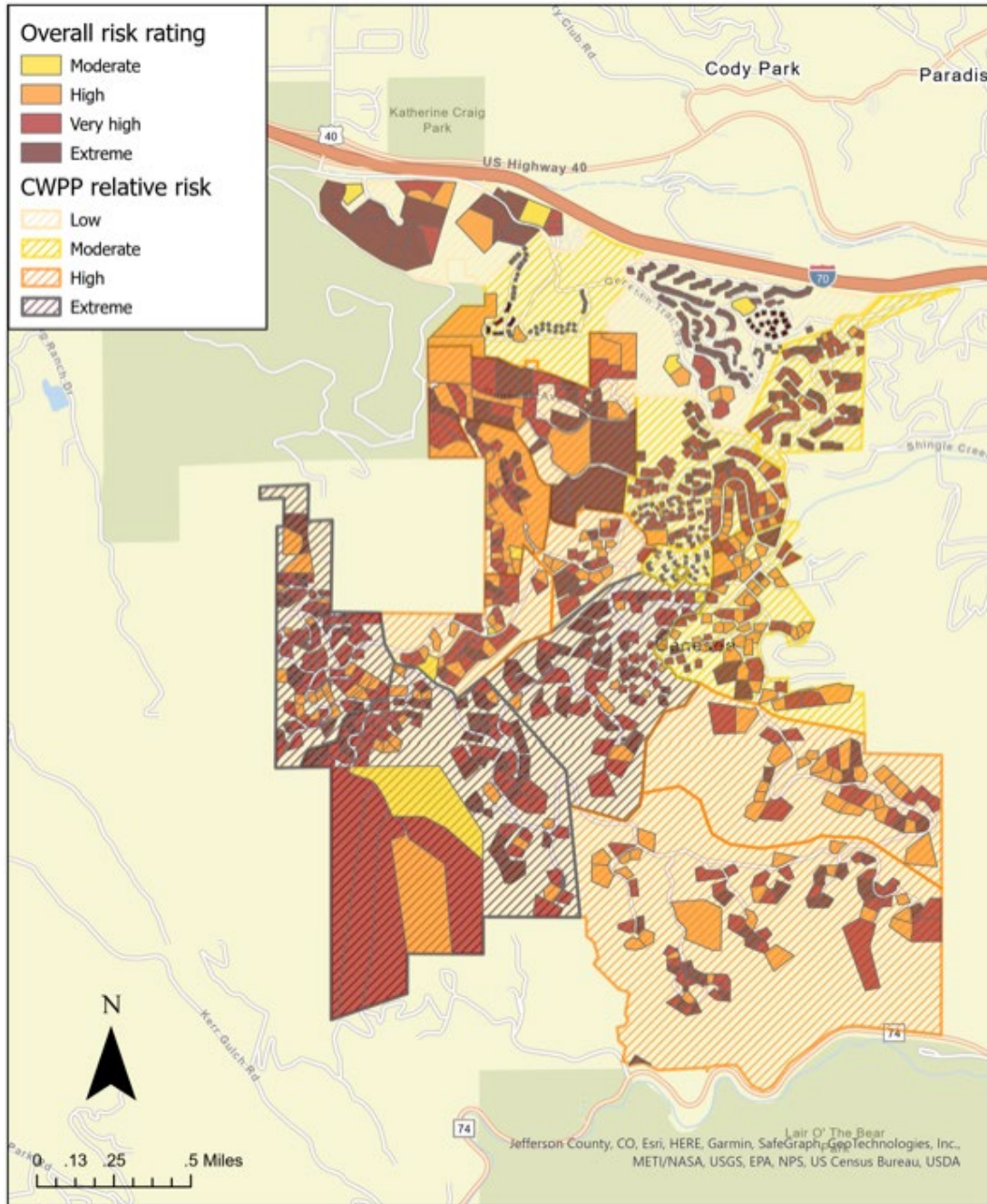
Variable names are included in parenthesis in tables to enable easy reference to the household survey summary document. The "n" tells the number of observations.

**Section 1.2** presents select cross-tabulations of select household survey questions to explore the relationship between multiple variables for the study area.

**Section 1.3** outlines future analysis that WiRē will explore.

# 1.1 Results by community

## 1.1.1 Map of overall risk by CWPP relative risk



**WiRē + Genesee Fire Rescue**  
Data collected in 2021  
Map produced by The Wildfire Research Center (WiRē)

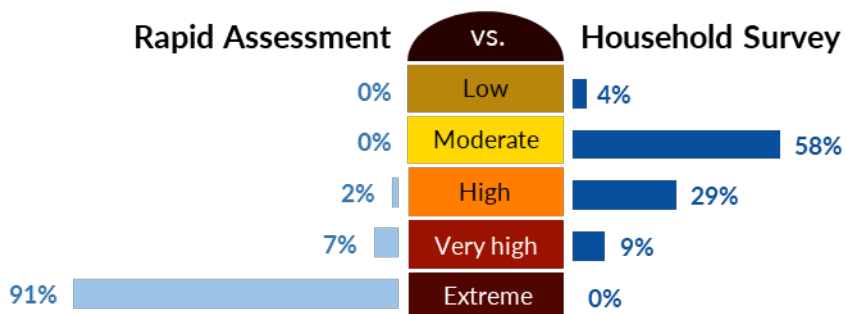
### 1.1.2 Response Rate and Overall Risk

**Table 1. Response rate and overall risk by community**

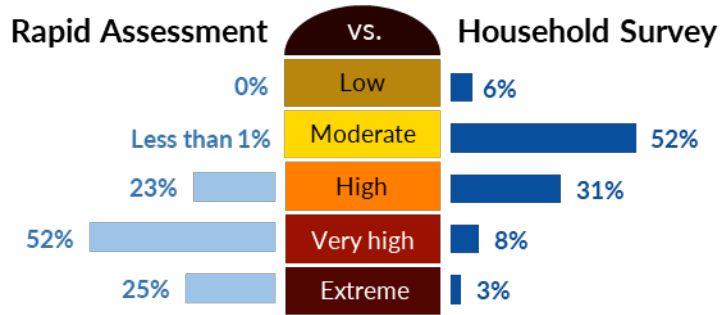
	Genesee Estates & Chimney Creek	Genesee Foundation, Ridge, & Preserve	Genesee Village	Entire study area
Response rate	37%	49%	35%	45%
Number of RAs	156	857	327	1,340
Number of paired risk assessment/household survey (RA/HS)	5)6	422	103	581
<b>Overall RA risk rating</b>				
Low	0%	0%	0%	0%
Moderate	0%	<1%	<1%	<1%
High	8%	20%	1%	14%
Very high	13%	52%	11%	38%
Extreme	79%	27%	87%	48%

### 1.1.3 Professional and self-assessed risk rating comparisons by community

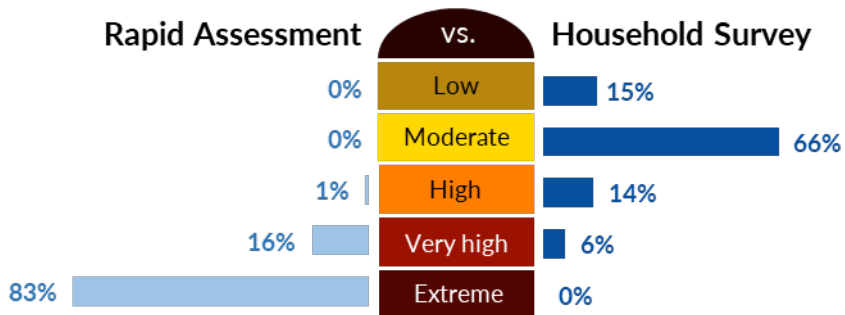
**Figure 1. Genesee Estates & Chimney Creek, overall risk rating (n=55)**



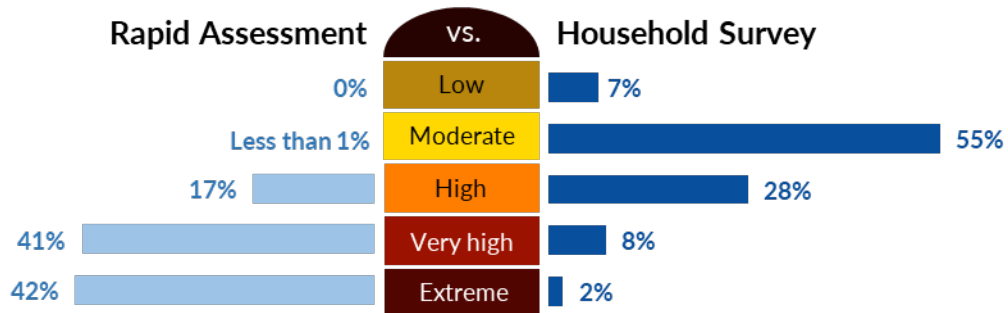
**Figure 2. Genesee Foundation, Ridge, & Preserve, overall risk rating (n=417)**



**Figure 3. Genesee Village, overall risk rating (n=102)**



**Figure 4. Entire study area, overall risk rating (n=574)**



### 1.1.4 Comparison of respondent-reported address posting by CWPP community

**Table 2. Comparison of Q3.11 by CWPP community**

Do any of the following describe your address number? My address number...	Genesee Estates & Chimney Creek (n=56)	Genesee Foundation, Ridge, & Preserve (n=422)	Genesee Village (n=103)	Entire study area (n=581)
is posted at the end of my driveway	28%	59%	31%	51%
is reflective	46%	40%	20%	37%
has 4-inch numerals	94%	91%	83%	90%
is on a contrasting background	87%	84%	79%	83%
is made of noncombustible materials	81%	68%	69%	69%

### 1.1.5 Comparison of wildfire-related activities by CWPP community

**Table 3. Comparison of Q4.2 by community**

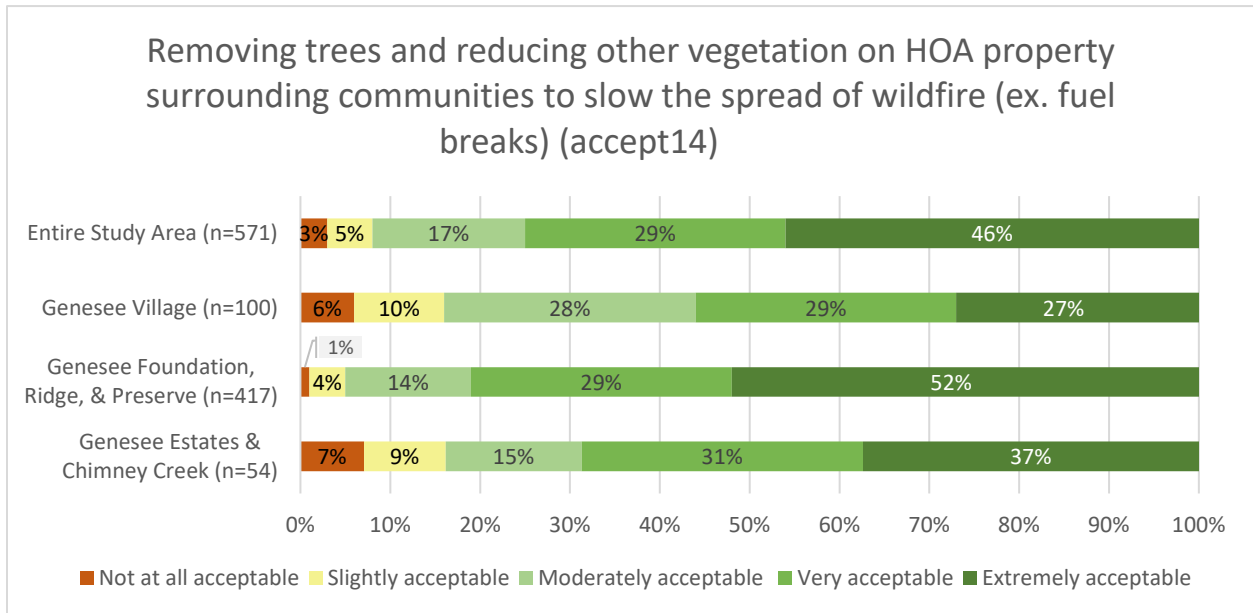
Have you done any of the following wildfire-related activities?	Genesee Estates & Chimney Creek (n=56)	Genesee Foundation, Ridge, & Preserve (n=422)	Genesee Village (n=103)	Entire study area (n=581)
Reduced vegetation on my property (activities1)	75%	95%	79%	90%
Regularly cleared my roof and gutters of leaves and pine needles (activities7)	75%	92%	79%	88%
Regularly mowed and raked around my home (activities8)	88%	89%	83%	88%
Made my home more fire resistant (activities2)	22%	66%	44%	58%
Helped neighbor(s) reduce vegetation on their properties (activities3)	31%	21%	26%	23%
Helped reduce vegetation on community property (activities4)	55%	27%	19%	28%
Helped reduce vegetation on nearby public lands (activities5)	5%	7%	6%	7%
Participated in a community wildfire preparedness activity (activities6)	29%	47%	23%	41%

**Table 3. Comparison of Q4.2 by community**

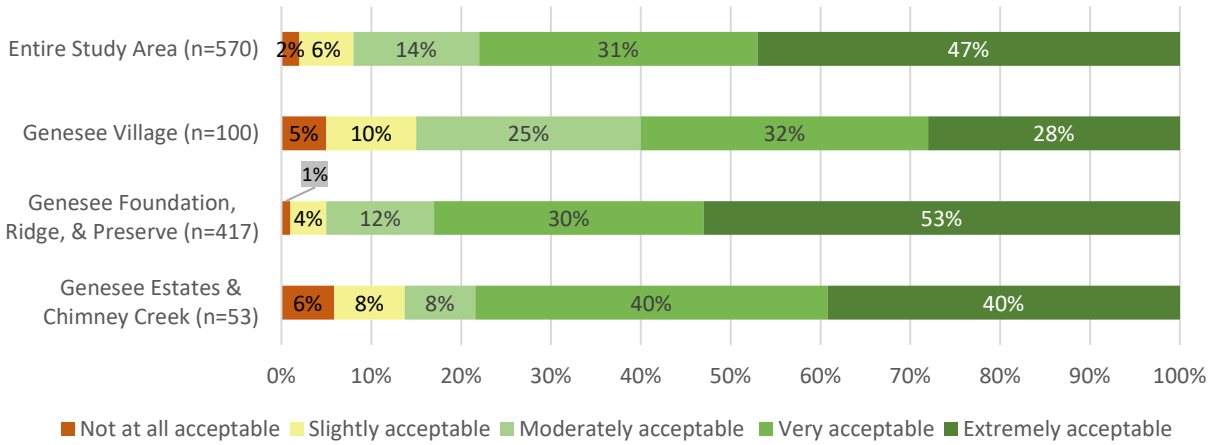
Have you done any of the following wildfire-related activities?	Genesee Estates & Chimney Creek (n=56)	Genesee Foundation, Ridge, & Preserve (n=422)	Genesee Village (n=103)	Entire study area (n=581)
Met with a wildfire professional at your home to evaluate and discuss your property’s wildfire risk (activities9)	14%	43%	10%	34%

1.1.6 Comparison of acceptability of approaches to reducing wildfire risk by CWPP community

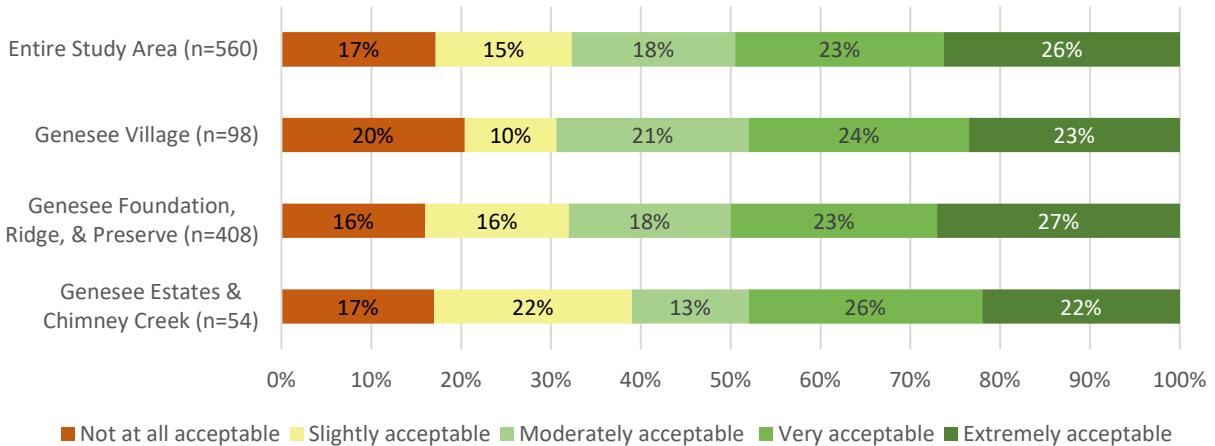
1.1.6.1 Q4.5 – How acceptable are the following approaches to reducing wildfire risk in Genesee FPD to you?



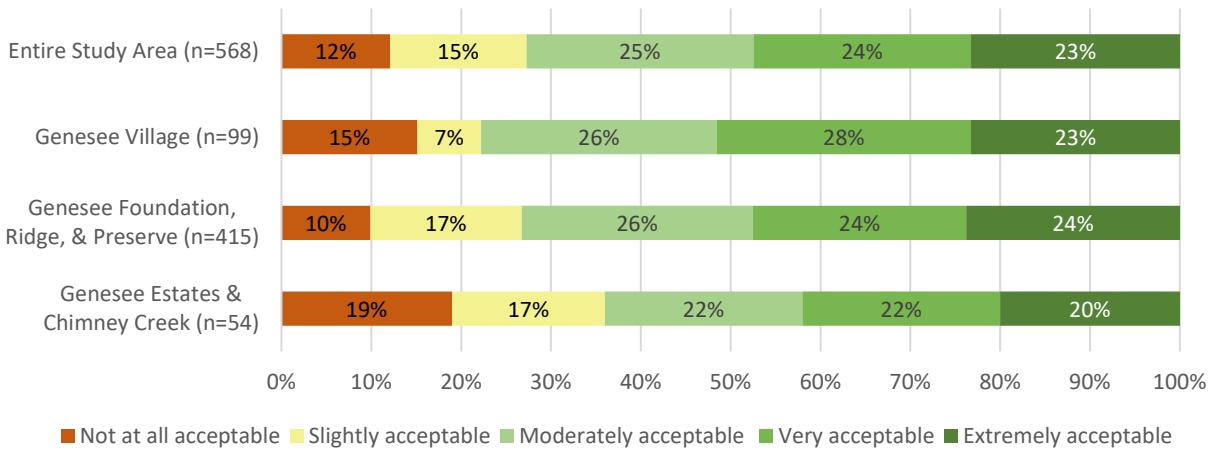
### Removing trees and reducing other vegetation (thinning/fuel breaks) on nearby public lands (accept1)



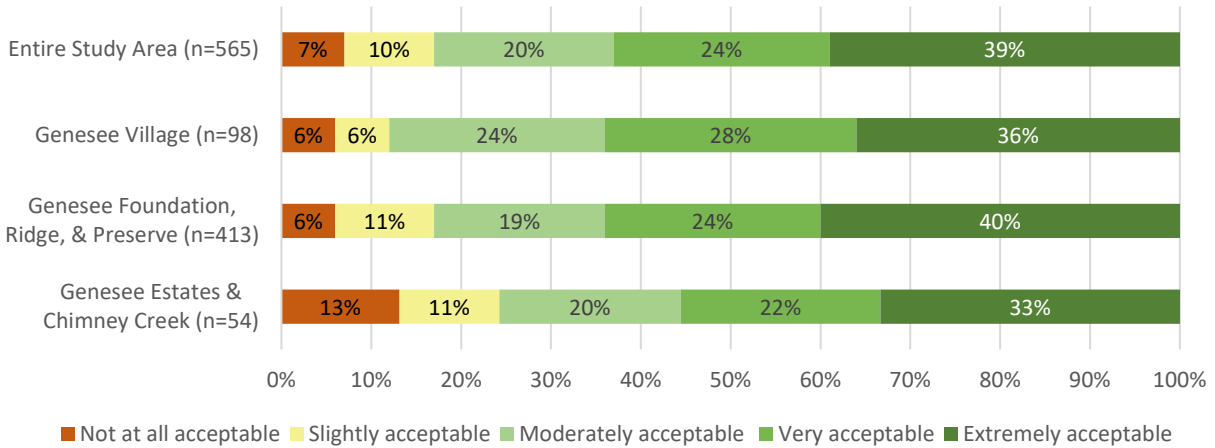
### Burning piles of vegetation (slash piles) on nearby public lands (accept2)



### Conducting a prescribed fire ignited by fire professionals on nearby public lands (accept3)

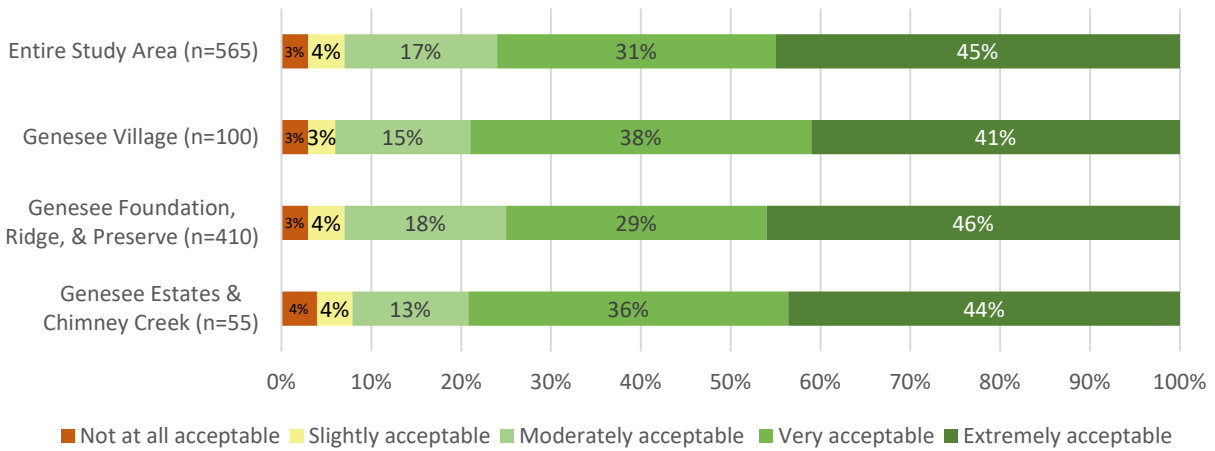


### Managing a naturally ignited fire (lightning) on nearby public lands (accept4)

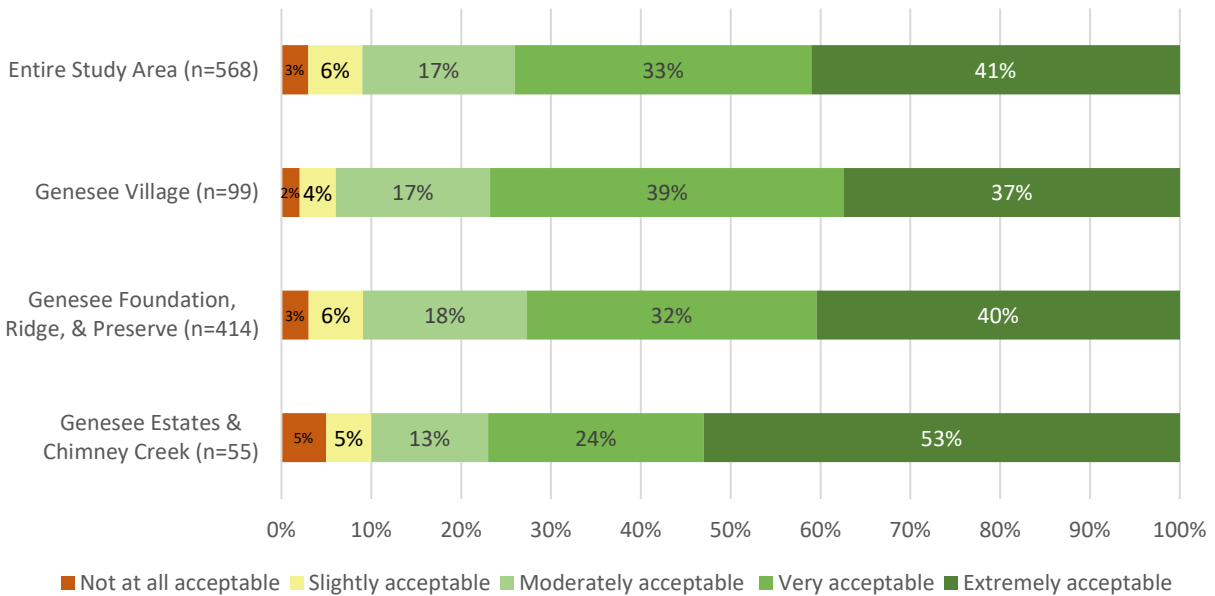




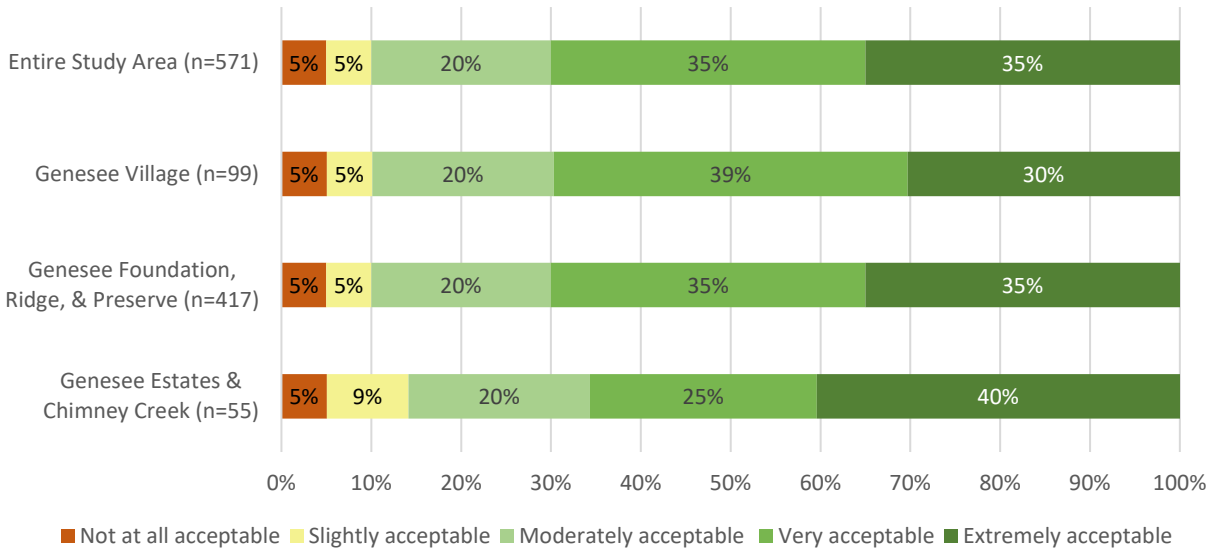
### Adopting growth policies or land use regulations that limit new development in fire-prone areas in Genesee FPD (accept6)



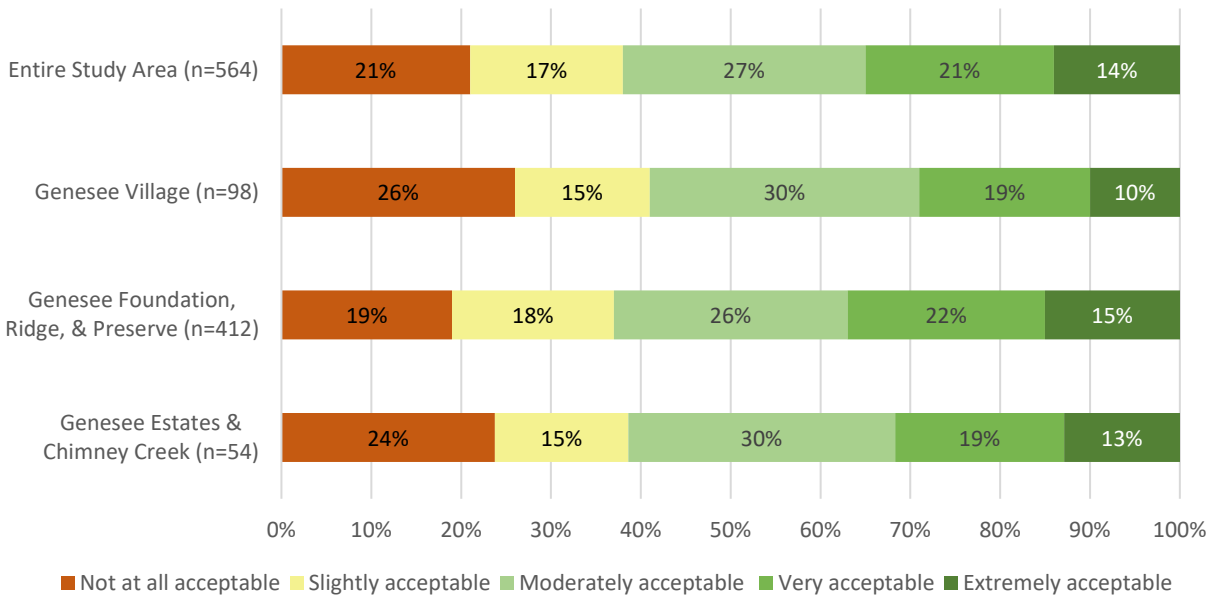
### Adopting building codes that require fire resistant materials for structures located in fire-prone areas in Genesee FPD (accept7)



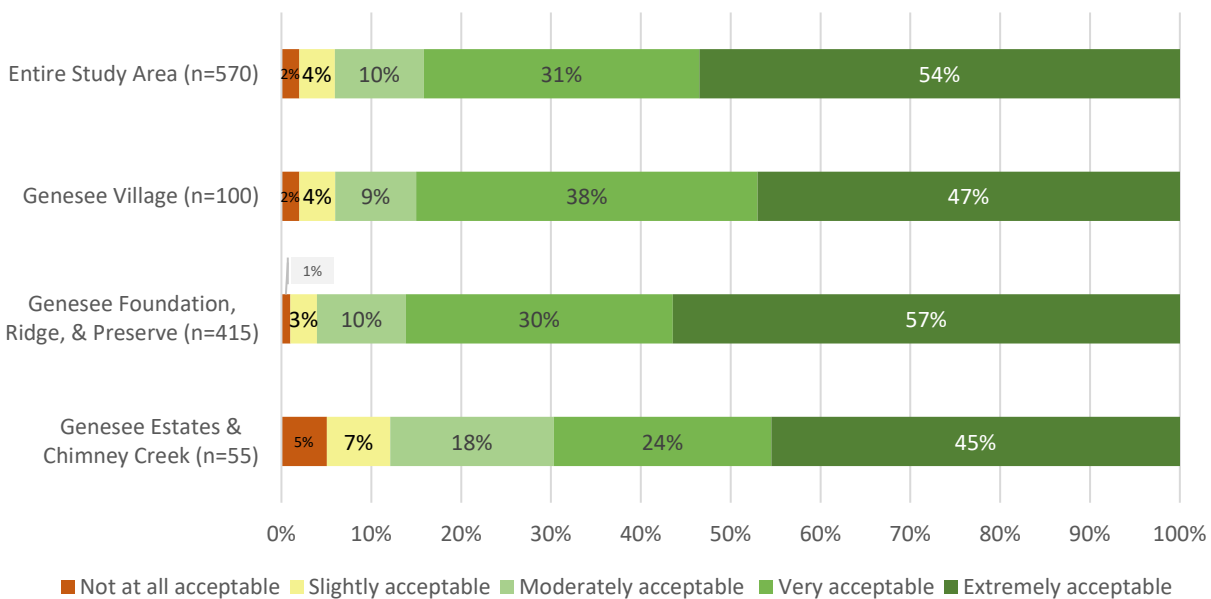
Adopting development standards that require vegetation management (ex. removing or thinning trees and mowing grass) on lots located in fire-prone areas in Genesee FPD (accept8)



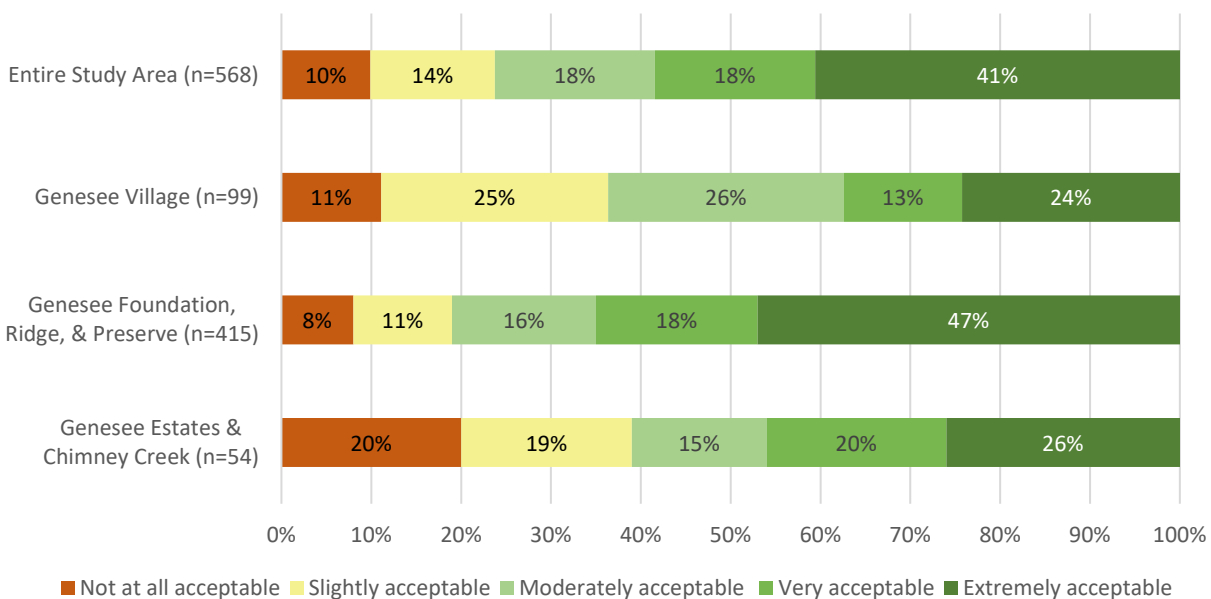
Temporarily shutting off the power grid during extreme fire risk days to avoid new wildfire ignitions (accept12)



### Removing vegetation along roadways for safer evacuation (accept9)

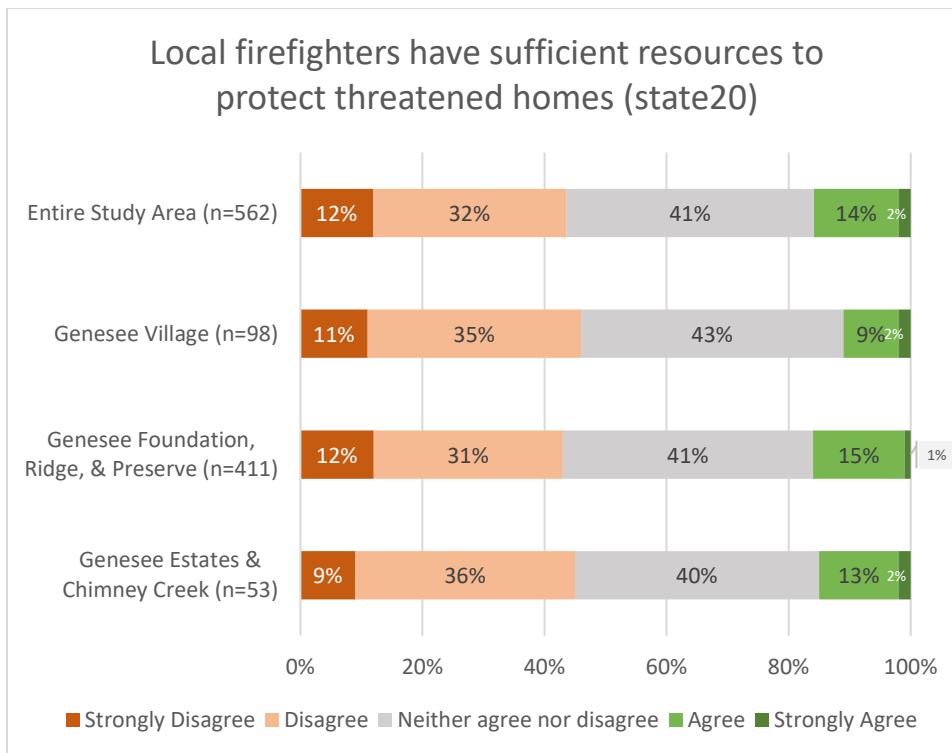
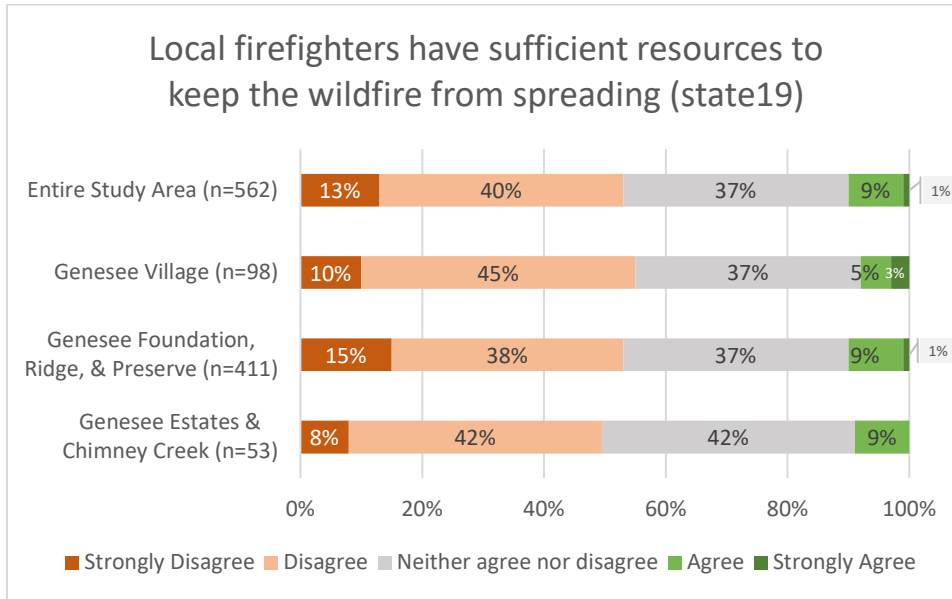


### Build a new road to provide an emergency evacuation route (accept13)

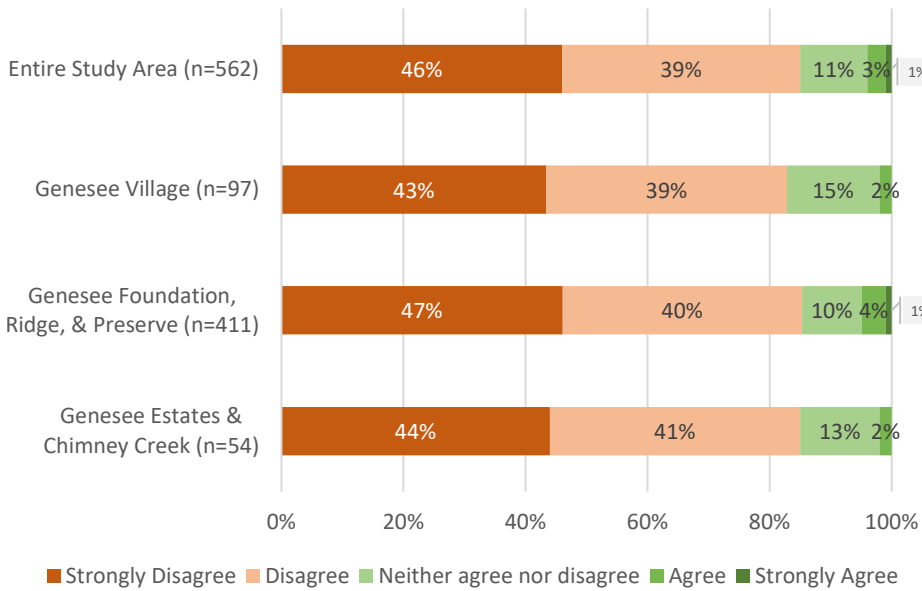


### 1.1.7 Comparison of agreement by CWPP community

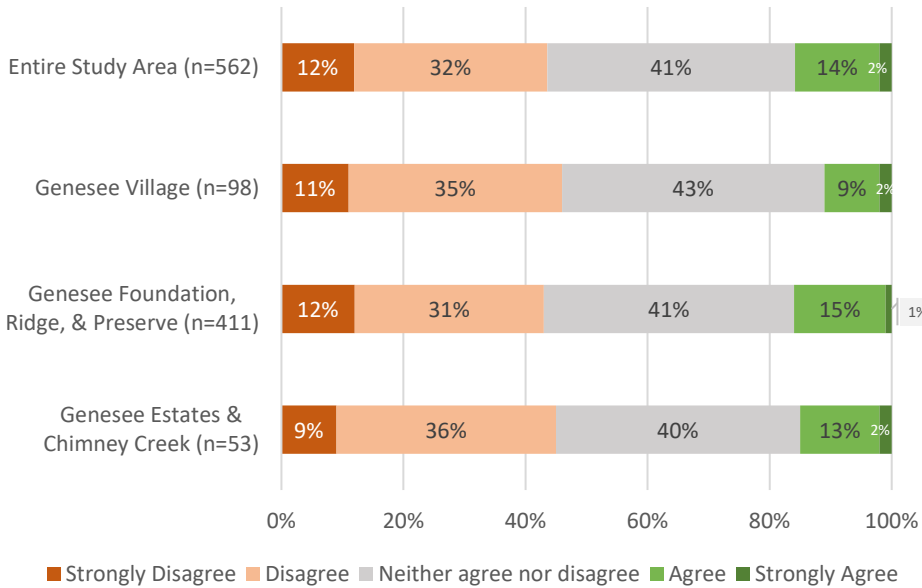
#### 1.1.7.1 Q5.1 –How much do you agree or disagree with the following statements about wildfire?



### Firefighters should put their lives at risk to protect my home (state21)



### Wildfires threaten my community water supply (state22)



### 1.1.8 Comparison of demographics by CWPP community

**Table 6. Demographics by CWPP community**

	Genesee Estates & Chimney Creek (n=56)	Genesee Foundation, Ridge, & Preserve (n=422)	Genesee Village (n=103)	Entire study area (n=581)
<b>Average age</b>	67	65	61	60
<b>Gender</b>				
Male	55%	60%	55%	59%
Female	45%	39%	45%	41%
Other	0%	1%	0%	<1%
<b>Education</b>				
Less than high school	0%	0%	0%	0%
High school graduate	0%	1%	0%	1%
Some college or technical school	7%	5%	9%	6%
Technical or trade school	0%	1%	5%	1%
College graduate	37%	28%	39%	31%
Some graduate work	20%	13%	5%	12%
Advanced degree (M.D., M.A., M.S., Ph.D., etc.)	35%	52%	41%	49%
<b>Employment status</b>				
Employed full time (including self- employed)	32%	33%	43%	35%
Employed part time (including self- employed)	4%	11%	9%	10%
Unemployed or do not work outside of the home	0%	1%	3%	2%
Retired	64%	55%	45%	54%
<b>Income</b>				
Less than \$15,000	0	1%	0%	Less than 1%
\$15,000 - \$24,999	0%	1%	1%	1%
\$25,000 – \$34,999	0%	0%	2%	Less than 1%

**Table 6. Demographics by CWPP community**

	Genesee Estates & Chimney Creek (n=56)	Genesee Foundation, Ridge, & Preserve (n=422)	Genesee Village (n=103)	Entire study area (n=581)
\$35,000 - \$49,999	4%	1%	4%	2%
\$50,000 - \$74,999	15%	3%	11%	6%
\$75,000 - \$99,999	21%	12%	16%	14%
\$100,000 - \$149,999	19%	19%	22%	20%
\$150,000 - \$199,999	15%	21%	20%	20%
\$200,000 or more	26%	42%	23%	37%

## 1.2 Additional requests from GFR (not by community)

### 1.2.1 Do the people who want more info on evac routes (evacinfo4) sign up for Code Red (evacact2)?

Approximately 45% of respondents (n=140) said they want more information on safe evacuation routes. Of those respondents, 64% are signed up for CodeRed 36% are not.

### 1.2.2 Do the respondents who report talking to a neighbor (talkfire) do mitigation work on around their home or on their property (activities1, 7, 8, and 2).

Approximately 68% of respondents (n=395) reported talking to their neighbors about wildfire issues, and 97% of respondents (n=393) reported doing at least one wildfire-related activity on their home or property. Of the respondents who said they talked to a neighbor, 100% reported doing at least one wildfire-related activity on their home or property.

**Table 7. Tabulation of respondents who reported talking to their neighbors about wildfire issues and also did wildfire-related activities on their home or property.**

	Reduced vegetation on property	Regular cleared roof and gutters	Regularly mowed and raked around home	Made home more fire resistant	Any wildfire-related activity at home or property
Portion of respondents who talked to their neighbors and also...	93%	93%	90%	62%	100%
Portion of respondents who did NOT talk to their neighbors and also...	83%	79%	82%	49%	92%

## 1.3 Future steps

As next steps, WiRe will investigate the following research questions.

- Are the people who respond to each of the evac actions and info questions the Same or different sets of people?
- Crosstab think house will be saved (lact2) with fire dept does/doesn't have enough resources (state20)
- Overlay nearby homes would ignite my home (lact14) to distance to neighboring structures (ra\_closehome).
- Explore producing a heat map